APPENDIX D

ANALYTICAL RESULTS AND QA/QC EVALUATIONS

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-21683-1

Job Description: Martha's Vineyard RI

For:
UXB International, Inc.
169R Main Street, Second Floor
Flemington, NJ 08822

Attention: Mr. Michael Warminsky

Approved for release.
Joni S Blankfield
Project Manager II
11/7/2011 5:34 PM

Joni S Blankfield
Project Manager II
joni.blankfield@testamericainc.com
11/07/2011

cc: Ms. Donna Sharp

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE
Client: UXB International, Inc.
Project: Martha's Vineyard RI
Report Number: 280-21683-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All references to reporting limits and method detection limits in this report are equivalent to the limit of quantitation (LOQ) and detection limit (DL).

RECEIPT

The samples were received on 10/18/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 4.7°C, 4.3°C, 1.3°C, 5.7°C, 4.8°C and 5.0°C.

Sample MG26 SB104 (280-21683-1), collected 10/14/11 @ 9:46, was received at the laboratory but not listed on the chain of custody. The sample was logged for 6020A and 8321B as a discrete sample, per the sample containers received. The client was notified on October 18, 2011.

Sample MG27 SB107 (280-21683-10) is listed twice on the chain of custody. The sample was analyzed once per the sample volume received.

EXPLOSIVES (Incremental Sampling and R&P Grinding)

Samples MG19 IS016 (280-21683-2), MG19 IS017 (280-21683-3), MG19 IS018 (280-21683-4), CP01 IS01 (280-21683-74), CP01 IS02 (280-21683-75) and CP01 IS03 (280-21683-76) were analyzed for explosives in accordance with EPA SW-846 Method 8321B. The samples were dried on 10/19/2011, prepared on 10/27/2011 and analyzed on 11/02/2011.

The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: MG19 IS016 (280-21683-2), MG19 IS017 (280-21683-3), MG19 IS018 (280-21683-4), CP01 IS01 (280-21683-74), CP01 IS02 (280-21683-75) and CP01 IS03 (280-21683-76). This material was removed and not extracted. The material appeared to be rocks and vegetation.

The Grinding blank (GB 280-92116/1-B) associated with prep batch 280-93548 contained 2,4,6-Trinitrotoluene (0.0998 mg/Kg) greater than the limit of quantitation (0.092 mg/Kg). The samples associated with this grinding blank were non-detect for this analyte; therefore, the data are reported.

No other difficulties were encountered during the explosives analyses.

All other quality control parameters were within the acceptance limits.

EXPLOSIVES

Samples MG26 SB104 (280-21683-1), MG20 SB090 (280-21683-5), MG20 SB091 (280-21683-6), MG22 SB094 (280-21683-7), MG22 SB095 (280-21683-8), MG22 SB096 (280-21683-9), MG27 SB107 (280-21683-10), MG27 SB106 (280-21683-11), MG25 SB102 (280-21683-12), MG23 SB099 (280-21683-13), MG25 SB103 (280-21683-14), MG23 SB098 (280-21683-15), MG21 SB093 (280-21683-16), MG24 SB100 (280-21683-17), MG21 SB092 (280-21683-18), MG35 SB123 (280-21683-19), MG26 SB105 (280-21683-20), MG24 SB101 (280-21683-21), MG35 SB124 (280-21683-22), MG35 SB125 (280-21683-23), MG36 SB126 (280-21683-24), MG36 SB127 (280-21683-25), MG32 SB115 (280-21683-26), MG32 SB116 (280-21683-27), MG33 SB117 (280-21683-28), MG33 SB119 (280-21683-29), MG33 SB118 (280-21683-30), MG34 SB121 (280-21683-31), MG34 SB122 (280-21683-32), MG31 SB113 (280-21683-33), MG31 SB114 (280-21683-34), MG30 SB111 (280-21683-35), MG30 SB112 (280-21683-36), MG29 SB109 (280-21683-37), MG29 SB110 (280-21683-38), MG06 SB062 (280-21683-39), MG06 SB063 (280-21683-40), MG06 SB064 (280-21683-41), MG05 SB060 (280-21683-42), MG05 SB061 (280-21683-43), MG04 SB058 (280-21683-44), MG04 SB059 (280-21683-45), MG03 SB056 (280-21683-46), MG03 SB057 (280-21683-47), MG02 SB054 (280-21683-48), MG02 SB055 (280-21683-49), MG15 SB081 (280-21683-50), MG15 SB082 (280-21683-51), MG12 SB073 (280-21683-52), MG12 SB075 (280-21683-53), MG12 SB074 (280-21683-54), MG11 SB071 (280-21683-55), MG11 SB072 (280-21683-56), MG14 SB079 (280-21683-57), MG14 SB080 (280-21683-58), MG13 SB077 (280-21683-59), MG13 SB078 (280-21683-60), MG16 SB083 (280-21683-61), MG16 SB084 (280-21683-62), MG09 SB069 (280-21683-63), MG09 SB070 (280-21683-64), MG08 SB067 (280-21683-65), MG08 SB068 (280-21683-66), MG07 SB065 (280-21683-67), MG07 SB066 (280-21683-68), MG17 SB085 (280-21683-69), MG17 SB086 (280-21683-70), MG17 SB087 (280-21683-71), MG18 SB088

(280-21683-72), MG18 SB089 (280-21683-73), CP10 SB014 (280-21683-77), CP10 SB015 (280-21683-78), CP09 SB012 (280-21683-79), CP09 SB013 (280-21683-80), CP08 SB009 (280-21683-81), CP08 SB010 (280-21683-82), CP08 SB011 (280-21683-83), CP11 SB16A (280-21683-84), CP11 SB16B (280-21683-85), CP07 SB007 (280-21683-86), CP07 SB008 (280-21683-87), CP04 SB001 (280-21683-88), CP04 SB002 (280-21683-89), CP06 SB005 (280-21683-90), CP06 SB006 (280-21683-91), CP05 SB003 (280-21683-92), CP05 SB004 (280-21683-93), CP12 SB017 (280-21683-94) and CP12 SB018 (280-21683-95) were analyzed for explosives in accordance with EPA SW-846 Method 8321B. The samples were dried on 10/18/2011 and 10/19/2011, prepared on 10/19/2011 and 10/20/2011 and analyzed on 10/25/2011, 10/26/2011, 11/01/2011 and 11/02/2011.

All samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve. This material was removed and not extracted. The material appeared to be rocks and vegetation.

The continuing calibration verification (CCV) for 2-Amino-4,6-dinitrotoluene (26%) associated with analytical batch 280-94193 recovered above the upper control limit (20%). The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported and qualified accordingly. The associated samples include: MG12 SB075 (280-21683-53), MG12 SB074 (280-21683-54), MG11 SB071 (280-21683-55), MG11 SB072 (280-21683-56).

The continuing calibration verification (CCV) for 2-Amino-4,6-dinitrotoluene (26%) associated with analytical batch 280-94192 recovered above the upper control limit (20%). The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported and qualified accordingly. The associated samples include: MG03 SB057 (280-21683-47), MG02 SB054 (280-21683-48), MG02 SB055 (280-21683-49), MG15 SB081 (280-21683-50), MG15 SB082 (280-21683-51), MG12 SB073 (280-21683-52).

Several continuing calibration verifications (CCV) associated with analytical batch 280-92961 recovered above the upper control limit of one or more of the following analytes: PETN 30%, 2-Amino-4,6-dinitrotoluene 20% and 4-Amino-4,6-dinitrotoluene 20%. The samples associated with the CCVs were non-detects for the affected analytes; therefore, the data have been reported and qualified accordingly.

- The samples associated with the PETN CCV (+34%) include: MG23 SB099 (280-21683-13), MG25 SB103 (280-21683-14), MG23 SB098 (280-21683-15), MG21 SB093 (280-21683-16), MG24 SB100 (280-21683-17), MG21 SB092 (280-21683-18).
- The samples associated with the 2-Amino-4,6-dinitrotoluene CCVs (+30% and +29%) and 4-Amino-4,6-dinitrotoluene (+21% and +44%) include: MG35 SB123 (280-21683-19), MG26 SB105 (280-21683-20), MG24 SB101 (280-21683-21), MG35 SB124 (280-21683-22), MG35 SB125 (280-21683-23), MG36 SB126 (280-21683-24), MG36 SB127 (280-21683-25), MG32 SB115 (280-21683-26), MG32 SB116 (280-21683-27), MG33 SB117 (280-21683-28), MG33 SB119 (280-21683-29), MG33 SB118 (280-21683-30), MG34 SB121 (280-21683-31), MG34 SB122 (280-21683-32.

Several continuing calibration verifications (CCV) associated with analytical batch 280-92964 recovered above the upper control limit of one or more of the following analytes: PETN 30%, 2-Amino-4,6-dinitrotoluene 20% and 4-Amino-4,6-dinitrotoluene 20%. The samples associated with the CCVs were non-detects for the affected analytes; therefore, the data have been reported and qualified accordingly.

- The samples associated with the PETN CCVs (+39% and +51%), 2-Amino-4,6-dinitrotoluene CCVs (+29%, +28%, +30% and +25%) and 4-Amino-4,6-dinitrotoluene (+44% and +24%) include: MG26 SB104 (280-21683-1), MG20 SB090 (280-21683-5), MG20 SB091 (280-21683-6), MG22 SB094 (280-21683-7), MG22 SB095 (280-21683-8), MG22 SB096 (280-21683-9), MG27 SB107 (280-21683-10), MG27 SB106 (280-21683-11), MG25 SB102 (280-21683-12).

No other difficulties were encountered during the explosives analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS with Incremental Preparation
Samples MG19 IS016 (280-21683-2), MG19 IS017 (280-21683-3), MG19 IS018 (280-21683-4), CP01 IS01 (280-21683-74), CP01 IS02 (280-21683-75) and CP01 IS03 (280-21683-76) were analyzed for Total Metals in accordance with EPA SW-846 Method 6020. The samples were dried on 10/19/2011, and prepared and analyzed on 11/02/2011.

The interference check standard solution (ICSA) associated with analytical batch 280-94600 was above the DoD acceptance criteria for antimony (> limit of detection (LOD)). It is believed that the solution contains trace impurities of this element and the result is not due to matrix interference. The result is consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged “Q” for this analyte.

Lead was detected in method blank MB 280-94043/1-A at a level that was above the detection limit but below the LOQ. The value should be considered an estimate, and has been flagged “J”. However, because the result concentration was less than ½ the LOQ, no corrective action was necessary.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 280-94043, performed on sample CP01 IS03 (280-21683-76) were outside control limits for antimony (13%/14%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly. The parent sample for the serial dilution (SD) had an antimony concentration less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recoveries for this batch were within the established control limits for these metals.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples MG26 SB104 (280-21683-1), MG20 SB090 (280-21683-5), MG20 SB091 (280-21683-6), MG22 SB094 (280-21683-7), MG22 SB095 (280-21683-8), MG22 SB096 (280-21683-9), MG27 SB107 (280-21683-10), MG27 SB106 (280-21683-11), MG25 SB102 (280-21683-12), MG23 SB099 (280-21683-13), MG25 SB103 (280-21683-14), MG23 SB098 (280-21683-15), MG21 SB093 (280-21683-16), MG24 SB100 (280-21683-17), MG21 SB092 (280-21683-18), MG35 SB123 (280-21683-19), MG26 SB105 (280-21683-20), MG24 SB101 (280-21683-21), MG35 SB124 (280-21683-22), MG35 SB125 (280-21683-23), MG36 SB126 (280-21683-24), MG36 SB127 (280-21683-25), MG32 SB115 (280-21683-26), MG32 SB116 (280-21683-27), MG33 SB117 (280-21683-28), MG33 SB119 (280-21683-29), MG33 SB118 (280-21683-30), MG34 SB121 (280-21683-31), MG34 SB122 (280-21683-32), MG31 SB113 (280-21683-33), MG31 SB114 (280-21683-34), MG30 SB111 (280-21683-35), MG30 SB112 (280-21683-36), MG29 SB109 (280-21683-37), MG29 SB110 (280-21683-38), MG06 SB062 (280-21683-39), MG06 SB063 (280-21683-40), MG06 SB064 (280-21683-41), MG05 SB060 (280-21683-42), MG05 SB061 (280-21683-43), MG04 SB058 (280-21683-44), MG04 SB059 (280-21683-45), MG03 SB056 (280-21683-46), MG03 SB057 (280-21683-47), MG02 SB054 (280-21683-48), MG02 SB055 (280-21683-49), MG15 SB081 (280-21683-50), MG15 SB082 (280-21683-51), MG12 SB073 (280-21683-52), MG12 SB075 (280-21683-53), MG12 SB074 (280-21683-54), MG11 SB071 (280-21683-55), MG11 SB072 (280-21683-56), MG14 SB079 (280-21683-57), MG14 SB080 (280-21683-58), MG13 SB077 (280-21683-59), MG13 SB078 (280-21683-60), MG16 SB083 (280-21683-61), MG16 SB084 (280-21683-62), MG09 SB069 (280-21683-63), MG09 SB070 (280-21683-64), MG08 SB067 (280-21683-65), MG08 SB068 (280-21683-66), MG07 SB065 (280-21683-67), MG07 SB066 (280-21683-68), MG17 SB085 (280-21683-69), MG17 SB086 (280-21683-70), MG17 SB087 (280-21683-71), MG18 SB088 (280-21683-72), MG18 SB089 (280-21683-73), CP10 SB014 (280-21683-77), CP10 SB015 (280-21683-78), CP09 SB012 (280-21683-79), CP09 SB013 (280-21683-80), CP08 SB009 (280-21683-81), CP08 SB010 (280-21683-82), CP08 SB011 (280-21683-83), CP11 SB16A (280-21683-84), CP11 SB16B (280-21683-85), CP07 SB007 (280-21683-86), CP07 SB008 (280-21683-87), CP04 SB001 (280-21683-88), CP04 SB002 (280-21683-89), CP06 SB005 (280-21683-90), CP06 SB006 (280-21683-91), CP05 SB003 (280-21683-92), CP05 SB004 (280-21683-93), CP12 SB017 (280-21683-94) and CP12 SB018 (280-21683-95) were analyzed for metals (ICPMS) in accordance with SW846 6020A. The samples were prepared on 10/31/2011, 11/01/2011 and 11/02/2011 and analyzed on 11/01/2011, 11/02/2011 and 11/03/2011.

The interference check standard solution (ICSA) associated with analytical batch 280-94332 was above the DoD acceptance criteria for antimony (> limit of detection (LOD)). It is believed that the solution contains trace impurities of this element and the result is not due to matrix interference. The result is consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged “Q” for this analyte.

The interference check standard solution (ICSA) associated with analytical batch 280-94600 was above the DoD acceptance criteria for antimony (> limit of detection (LOD)). It is believed that the solution contains trace impurities of this element and the result is not due to matrix interference. The result is consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged “Q” for this analyte.

Antimony, Copper and Lead were detected in method blank MB 280-91954/1-A at levels that were above the detection limit but below the LOQ. The values should be considered estimates, and have been flagged “J”. However, because the result concentration was less than ½ the LOQ, no corrective action was necessary.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 280-91954, performed on sample MG26 SB104 (280-21683-1) were outside control limits for antimony (15%/15%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly. The parent sample for the serial dilution (SD) had antimony and copper concentrations less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recoveries for this batch were within the established control limits for these metals.

Copper and Zinc were detected in method blank MB 280-91956/1-A at levels that were above the detection limit but below the LOQ. The values should be considered estimates, and have been flagged “J”. However, because the result concentration was less than ½ the LOQ, no corrective action was necessary.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 280-91956, performed on sample MG24 SB101 (280-21683-21) were outside control limits for antimony (32%/35%) and zinc (MS @ 128%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly. The parent sample for the serial dilution (SD) had antimony, copper and zinc concentrations less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recoveries for this batch were within the established control limits for these metals.

Zinc was detected in method blank MB 280-91958/1-A at a level that was above the detection limit but below the LOQ. The value should be considered an estimate, and has been flagged “J”. However, because the result concentration was less than ½ the LOQ, no corrective action was necessary.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 280-91958, performed on sample MG06 SB064 (280-21683-41) were outside control limits for antimony (22%/21%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly. The parent sample for the serial dilution (SD) had antimony, copper and zinc concentrations less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recoveries for this batch were within the established control limits for these metals.

Zinc was detected in method blank MB 280-91960/1-A at a level that was above the detection limit but below the LOQ. The value should be considered an estimate, and has been flagged “J”. However, because the result concentration was less than ½ the LOQ, no corrective action was necessary.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 280-91960, performed on sample MG16 SB083 (280-21683-61) were outside control limits for antimony (17%/18%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly. The parent sample for the serial dilution (SD) had antimony, copper and zinc concentrations less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recoveries for this batch were within the established control limits for these metals.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 280-91961, performed on sample CP08 SB009 (280-21683-81) were outside control limits for antimony (17%/15%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly. The parent sample for the serial dilution (SD) had antimony, copper and zinc concentrations less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recoveries for this batch were within the established control limits for these metals.

The parent sample (MG26 SB104 (280-21683-1)) selected for the serial dilution (SD) in prep batch 280-94294 had a zinc concentration less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recovery for this batch was within the established control limits.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS
No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4   Analysis Batch Number: 92354

Lab Sample ID: STD300 280-92354/7 IC   Client Sample ID:

Date Analyzed: 10/21/11 10:50   Lab File ID: ex41J21009.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene	7.35	Baseline	meyera	10/21/11 11:09

8321B

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4   Analysis Batch Number: 94193

Lab Sample ID: CCV 280-94193/137   Client Sample ID:

Date Analyzed: 11/01/11 23:19   Lab File ID: ex41J21613.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	6.72	Baseline	meyera	11/02/11 06:58

8321B

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4 Analysis Batch Number: 94194

Lab Sample ID: CCV 280-94194/137 Client Sample ID:

Date Analyzed: 11/01/11 23:19 Lab File ID: ex41J21613.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	6.72	Baseline	meyera	11/02/11 06:58

Lab Sample ID: CCV 280-94194/164 Client Sample ID:

Date Analyzed: 11/02/11 05:28 Lab File ID: ex41J21640.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	7.74	Baseline	meyera	11/02/11 06:55

8321B

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4   Analysis Batch Number: 94252

Lab Sample ID: CCV 280-94252/164   Client Sample ID:

Date Analyzed: 11/02/11 05:28   Lab File ID: ex41J21640.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
PETN	7.74	Baseline	meyera	11/02/11 06:55

Lab Sample ID: 280-21683-75   Client Sample ID: CP01 IS02

Date Analyzed: 11/02/11 07:30   Lab File ID: ex41J21649.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
2,4,6-Trinitrotoluene	5.44	Baseline	meyera	11/04/11 12:22
2,6-Dinitrotoluene	6.87	Baseline	meyera	11/02/11 08:24
2,4-Dinitrotoluene	7.23	Assign Peak	meyera	11/02/11 08:24

Lab Sample ID: 280-21683-76   Client Sample ID: CP01 IS03

Date Analyzed: 11/02/11 07:44   Lab File ID: ex41J21650.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
2,6-Dinitrotoluene	6.87	Baseline	meyera	11/02/11 08:24
2,4-Dinitrotoluene	7.26	Assign Peak	meyera	11/02/11 08:24

Lab Sample ID: CCV 280-94252/184   Client Sample ID:

Date Analyzed: 11/02/11 10:01   Lab File ID: ex41J21660.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	6.69	Baseline	meyera	11/02/11 10:21

8321B

LCMS MANUAL INTEGRATION SUMMARY

ggm 11/4/11

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4   Analysis Batch Number: 92354

Lab Sample ID: STD300 280-92354/7 IC   Client Sample ID:

Date Analyzed: 10/21/11 10:50   Lab File ID: ex41J21009.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene	7.35	Baseline	meyera	10/21/11 11:09

8321B

LCMS MANUAL INTEGRATION SUMMARY

gop 11/4/11

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4 Analysis Batch Number: 94193

Lab Sample ID: CCV 280-94193/137 Client Sample ID:

Date Analyzed: 11/01/11 23:19 Lab File ID: ex41J21613.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	6.72	Baseline	meyera	11/02/11 06:58

8321B

11/4/11

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver　　Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4　　Analysis Batch Number: 94194

Lab Sample ID: CCV 280-94194/137　　Client Sample ID:

Date Analyzed: 11/01/11 23:19　　Lab File ID: ex41J21613.d　　GC Column: IonPac　　ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	6.72	Baseline	meyera	11/02/11 06:58

Lab Sample ID: CCV 280-94194/164　　Client Sample ID:

Date Analyzed: 11/02/11 05:28　　Lab File ID: ex41J21640.d　　GC Column: IonPac　　ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	7.74	Baseline	meyera	11/02/11 06:55

8321B

LCMS MANUAL INTEGRATION SUMMARY

AP 11/4/11

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4 Analysis Batch Number: 94252

Lab Sample ID: CCV 280-94252/164 Client Sample ID:

Date Analyzed: 11/02/11 05:28 Lab File ID: ex41J21640.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	7.74	Baseline	meyera	11/02/11 06:55

Lab Sample ID: 280-21683-75 Client Sample ID: IS02

Date Analyzed: 11/02/11 07:30 Lab File ID: ex41J21649.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4,6-Trinitrotoluene	5.44	Baseline	meyera	11/02/11 08:24
2,6-Dinitrotoluene	6.87	Baseline	meyera	11/02/11 08:24
2,4-Dinitrotoluene	7.23	Assign Peak	meyera	11/02/11 08:24

Lab Sample ID: 280-21683-76 Client Sample ID: IS03

Date Analyzed: 11/02/11 07:44 Lab File ID: ex41J21650.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,6-Dinitrotoluene	6.87	Baseline	meyera	11/02/11 08:24
2,4-Dinitrotoluene	7.26	Assign Peak	meyera	11/02/11 08:24

Lab Sample ID: CCV 280-94252/184 Client Sample ID:

Date Analyzed: 11/02/11 10:01 Lab File ID: ex41J21660.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	6.69	Baseline	meyera	11/02/11 10:21

8321B

SAMPLE SUMMARY

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-21683-1	MG26 SB104	Solid	10/14/2011 0946	10/18/2011 0900
280-21683-2	MG19 IS016	Solid	10/13/2011 1315	10/18/2011 0900
280-21683-3	MG19 IS017	Solid	10/13/2011 1653	10/18/2011 0900
280-21683-4	MG19 IS018	Solid	10/14/2011 0945	10/18/2011 0900
280-21683-5	MG20 SB090	Solid	10/13/2011 1555	10/18/2011 0900
280-21683-6	MG20 SB091	Solid	10/13/2011 1625	10/18/2011 0900
280-21683-7	MG22 SB094	Solid	10/13/2011 1646	10/18/2011 0900
280-21683-8	MG22 SB095	Solid	10/13/2011 1657	10/18/2011 0900
280-21683-9	MG22 SB096	Solid	10/13/2011 1646	10/18/2011 0900
280-21683-10	MG27 SB107	Solid	10/14/2011 1017	10/18/2011 0900
280-21683-11	MG27 SB106	Solid	10/14/2011 1009	10/18/2011 0900
280-21683-12	MG25 SB102	Solid	10/14/2011 1029	10/18/2011 0900
280-21683-13	MG23 SB099	Solid	10/14/2011 0858	10/18/2011 0900
280-21683-14	MG25 SB103	Solid	10/14/2011 1033	10/18/2011 0900
280-21683-15	MG23 SB098	Solid	10/14/2011 0845	10/18/2011 0900
280-21683-16	MG21 SB093	Solid	10/14/2011 0911	10/18/2011 0900
280-21683-17	MG24 SB100	Solid	10/14/2011 0927	10/18/2011 0900
280-21683-18	MG21 SB092	Solid	10/14/2011 0905	10/18/2011 0900
280-21683-19	MG35 SB123	Solid	10/14/2011 1029	10/18/2011 0900
280-21683-20	MG26 SB105	Solid	10/14/2011 0952	10/18/2011 0900
280-21683-21	MG24 SB101	Solid	10/14/2011 0933	10/18/2011 0900
280-21683-22	MG35 SB124	Solid	10/14/2011 1130	10/18/2011 0900
280-21683-23	MG35 SB125	Solid	10/14/2011 1130	10/18/2011 0900
280-21683-24	MG36 SB126	Solid	10/14/2011 1146	10/18/2011 0900
280-21683-25	MG36 SB127	Solid	10/14/2011 1156	10/18/2011 0900
280-21683-26	MG32 SB115	Solid	10/14/2011 1410	10/18/2011 0900
280-21683-27	MG32 SB116	Solid	10/14/2011 1420	10/18/2011 0900
280-21683-28	MG33 SB117	Solid	10/15/2011 0841	10/18/2011 0900
280-21683-29	MG33 SB119	Solid	10/15/2011 0841	10/18/2011 0900
280-21683-30	MG33 SB118	Solid	10/15/2011 0853	10/18/2011 0900
280-21683-31	MG34 SB121	Solid	10/15/2011 0906	10/18/2011 0900
280-21683-32	MG34 SB122	Solid	10/15/2011 0915	10/18/2011 0900
280-21683-33	MG31 SB113	Solid	10/15/2011 0926	10/18/2011 0900
280-21683-34	MG31 SB114	Solid	10/15/2011 0933	10/18/2011 0900
280-21683-35	MG30 SB111	Solid	10/15/2011 0945	10/18/2011 0900
280-21683-36	MG30 SB112	Solid	10/15/2011 0951	10/18/2011 0900
280-21683-37	MG29 SB109	Solid	10/15/2011 1000	10/18/2011 0900
280-21683-38	MG29 SB110	Solid	10/15/2011 1005	10/18/2011 0900
280-21683-39	MG06 SB062	Solid	10/15/2011 1311	10/18/2011 0900
280-21683-40	MG06 SB063	Solid	10/15/2011 1316	10/18/2011 0900
280-21683-41	MG06 SB064	Solid	10/15/2011 1316	10/18/2011 0900
280-21683-42	MG05 SB060	Solid	10/15/2011 1328	10/18/2011 0900
280-21683-43	MG05 SB061	Solid	10/15/2011 1330	10/18/2011 0900
280-21683-44	MG04 SB058	Solid	10/15/2011 1339	10/18/2011 0900
280-21683-45	MG04 SB059	Solid	10/15/2011 1341	10/18/2011 0900
280-21683-46	MG03 SB056	Solid	10/15/2011 1351	10/18/2011 0900
280-21683-47	MG03 SB057	Solid	10/15/2011 1353	10/18/2011 0900
280-21683-48	MG02 SB054	Solid	10/15/2011 1404	10/18/2011 0900
280-21683-49	MG02 SB055	Solid	10/15/2011 1406	10/18/2011 0900
280-21683-50	MG15 SB081	Solid	10/15/2011 1419	10/18/2011 0900
280-21683-51	MG15 SB082	Solid	10/15/2011 1422	10/18/2011 0900
280-21683-52	MG12 SB073	Solid	10/15/2011 1440	10/18/2011 0900
280-21683-53	MG12 SB075	Solid	10/15/2011 1440	10/18/2011 0900

SAMPLE SUMMARY

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-21683-54	MG12 SB074	Solid	10/15/2011 1443	10/18/2011 0900
280-21683-55	MG11 SB071	Solid	10/15/2011 1455	10/18/2011 0900
280-21683-56	MG11 SB072	Solid	10/15/2011 1457	10/18/2011 0900
280-21683-57	MG14 SB079	Solid	10/15/2011 1512	10/18/2011 0900
280-21683-58	MG14 SB080	Solid	10/15/2011 1515	10/18/2011 0900
280-21683-59	MG13 SB077	Solid	10/15/2011 1524	10/18/2011 0900
280-21683-60	MG13 SB078	Solid	10/15/2011 1526	10/18/2011 0900
280-21683-61	MG16 SB083	Solid	10/15/2011 1537	10/18/2011 0900
280-21683-62	MG16 SB084	Solid	10/15/2011 1540	10/18/2011 0900
280-21683-63	MG09 SB069	Solid	10/15/2011 1601	10/18/2011 0900
280-21683-64	MG09 SB070	Solid	10/15/2011 1603	10/18/2011 0900
280-21683-65	MG08 SB067	Solid	10/15/2011 1614	10/18/2011 0900
280-21683-66	MG08 SB068	Solid	10/15/2011 1617	10/18/2011 0900
280-21683-67	MG07 SB065	Solid	10/15/2011 1628	10/18/2011 0900
280-21683-68	MG07 SB066	Solid	10/15/2011 1629	10/18/2011 0900
280-21683-69	MG17 SB085	Solid	10/15/2011 1641	10/18/2011 0900
280-21683-70	MG17 SB086	Solid	10/15/2011 1643	10/18/2011 0900
280-21683-71	MG17 SB087	Solid	10/15/2011 1643	10/18/2011 0900
280-21683-72	MG18 SB088	Solid	10/15/2011 1656	10/18/2011 0900
280-21683-73	MG18 SB089	Solid	10/15/2011 1658	10/18/2011 0900
280-21683-74	CP01 IS01	Solid	10/16/2011 1150	10/18/2011 0900
280-21683-75	CP01 IS02	Solid	10/16/2011 1321	10/18/2011 0900
280-21683-76	CP01 IS03	Solid	10/16/2011 1432	10/18/2011 0900
280-21683-77	CP10 SB014	Solid	10/16/2011 1120	10/18/2011 0900
280-21683-78	CP10 SB015	Solid	10/16/2011 1124	10/18/2011 0900
280-21683-79	CP09 SB012	Solid	10/16/2011 1140	10/18/2011 0900
280-21683-80	CP09 SB013	Solid	10/16/2011 1142	10/18/2011 0900
280-21683-81	CP08 SB009	Solid	10/16/2011 1155	10/18/2011 0900
280-21683-82	CP08 SB010	Solid	10/16/2011 1159	10/18/2011 0900
280-21683-83	CP08 SB011	Solid	10/16/2011 1159	10/18/2011 0900
280-21683-84	CP11 SB16A	Solid	10/16/2011 1241	10/18/2011 0900
280-21683-85	CP11 SB16B	Solid	10/16/2011 1243	10/18/2011 0900
280-21683-86	CP07 SB007	Solid	10/16/2011 1300	10/18/2011 0900
280-21683-87	CP07 SB008	Solid	10/16/2011 1303	10/18/2011 0900
280-21683-88	CP04 SB001	Solid	10/16/2011 1320	10/18/2011 0900
280-21683-89	CP04 SB002	Solid	10/16/2011 1325	10/18/2011 0900
280-21683-90	CP06 SB005	Solid	10/16/2011 1340	10/18/2011 0900
280-21683-91	CP06 SB006	Solid	10/16/2011 1343	10/18/2011 0900
280-21683-92	CP05 SB003	Solid	10/16/2011 1401	10/18/2011 0900
280-21683-93	CP05 SB004	Solid	10/16/2011 1404	10/18/2011 0900
280-21683-94	CP12 SB017	Solid	10/16/2011 1522	10/18/2011 0900
280-21683-95	CP12 SB018	Solid	10/16/2011 1525	10/18/2011 0900

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-1	**MG26 SB104**					
Antimony		0.027	Q J	0.22	mg/Kg	6020A
Copper		2.3	J	2.7	mg/Kg	6020A
Lead		6.1		0.11	mg/Kg	6020A
Nickel		2.5		0.38	mg/Kg	6020A
Zinc		9.3		2.7	mg/Kg	6020A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture
280-21683-2	**MG19 IS016**					
Antimony		0.040	J Q	0.19	mg/Kg	6020A
Copper		3.7		2.4	mg/Kg	6020A
Lead		14		0.095	mg/Kg	6020A
Nickel		2.6		0.33	mg/Kg	6020A
Zinc		13		2.4	mg/Kg	6020A
280-21683-3	**MG19 IS017**					
Antimony		0.034	J Q	0.19	mg/Kg	6020A
Copper		3.4		2.4	mg/Kg	6020A
Lead		12		0.095	mg/Kg	6020A
Nickel		2.5		0.33	mg/Kg	6020A
Zinc		12		2.4	mg/Kg	6020A
280-21683-4	**MG19 IS018**					
Antimony		0.043	J Q	0.20	mg/Kg	6020A
Copper		3.9		2.4	mg/Kg	6020A
Lead		11		0.098	mg/Kg	6020A
Nickel		2.6		0.34	mg/Kg	6020A
Zinc		15		2.4	mg/Kg	6020A
280-21683-5	**MG20 SB090**					
Antimony		0.025	J Q	0.23	mg/Kg	6020A
Copper		2.3	J	2.9	mg/Kg	6020A
Lead		4.7		0.12	mg/Kg	6020A
Nickel		1.8		0.41	mg/Kg	6020A
Zinc		6.5		2.7	mg/Kg	6020A
Percent Moisture		19		0.10	%	Moisture
Percent Solids		81		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-6	**MG20 SB091**					
Antimony		0.023	J Q	0.21	mg/Kg	6020A
Copper		2.2	J	2.6	mg/Kg	6020A
Lead		4.5		0.10	mg/Kg	6020A
Nickel		2.9		0.36	mg/Kg	6020A
Zinc		8.0		2.6	mg/Kg	6020A
Percent Moisture		15		0.10	%	Moisture
Percent Solids		85		0.10	%	Moisture
280-21683-7	**MG22 SB094**					
Antimony		0.022	J Q	0.20	mg/Kg	6020A
Copper		2.1	J	2.5	mg/Kg	6020A
Lead		4.5		0.10	mg/Kg	6020A
Nickel		2.4		0.36	mg/Kg	6020A
Zinc		7.6		2.3	mg/Kg	6020A
Percent Moisture		8.3		0.10	%	Moisture
Percent Solids		92		0.10	%	Moisture
280-21683-8	**MG22 SB095**					
Antimony		0.020	J Q	0.24	mg/Kg	6020A
Copper		2.2	J	2.9	mg/Kg	6020A
Lead		4.0		0.12	mg/Kg	6020A
Nickel		3.1		0.41	mg/Kg	6020A
Zinc		6.4		2.6	mg/Kg	6020A
Percent Moisture		18		0.10	%	Moisture
Percent Solids		82		0.10	%	Moisture
280-21683-9	**MG22 SB096**					
Antimony		0.023	J Q	0.21	mg/Kg	6020A
Copper		2.1	J	2.7	mg/Kg	6020A
Lead		4.8		0.11	mg/Kg	6020A
Nickel		2.2		0.37	mg/Kg	6020A
Zinc		7.0		2.5	mg/Kg	6020A
Percent Moisture		8.1		0.10	%	Moisture
Percent Solids		92		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-10	**MG27 SB107**					
Antimony		0.023	J Q	0.23	mg/Kg	6020A
Copper		1.2	J	2.9	mg/Kg	6020A
Lead		3.8		0.11	mg/Kg	6020A
Nickel		2.7		0.40	mg/Kg	6020A
Zinc		6.1		2.5	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21683-11	**MG27 SB106**					
Antimony		0.025	J Q	0.22	mg/Kg	6020A
Copper		1.5	J	2.7	mg/Kg	6020A
Lead		6.0		0.11	mg/Kg	6020A
Nickel		1.4		0.38	mg/Kg	6020A
Zinc		5.6		2.8	mg/Kg	6020A
Percent Moisture		18		0.10	%	Moisture
Percent Solids		82		0.10	%	Moisture
280-21683-12	**MG25 SB102**					
Antimony		0.031	J Q	0.20	mg/Kg	6020A
Copper		3.3		2.5	mg/Kg	6020A
Lead		5.4		0.099	mg/Kg	6020A
Nickel		2.9		0.35	mg/Kg	6020A
Zinc		8.0		2.7	mg/Kg	6020A
Percent Moisture		9.4		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
280-21683-13	**MG23 SB099**					
Antimony		0.020	J Q	0.21	mg/Kg	6020A
Copper		1.9	J	2.7	mg/Kg	6020A
Lead		3.7		0.11	mg/Kg	6020A
Nickel		2.3		0.37	mg/Kg	6020A
Zinc		17		2.4	mg/Kg	6020A
Percent Moisture		6.5		0.10	%	Moisture
Percent Solids		94		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-14	**MG25 SB103**					
Antimony		0.023	J Q	0.20	mg/Kg	6020A
Copper		2.0	J	2.5	mg/Kg	6020A
Lead		4.3		0.10	mg/Kg	6020A
Nickel		1.9		0.35	mg/Kg	6020A
Zinc		6.2		2.7	mg/Kg	6020A
Percent Moisture		15		0.10	%	Moisture
Percent Solids		85		0.10	%	Moisture
280-21683-15	**MG23 SB098**					
Antimony		0.023	J Q	0.20	mg/Kg	6020A
Copper		2.3	J	2.5	mg/Kg	6020A
Lead		4.7		0.10	mg/Kg	6020A
Nickel		2.5		0.36	mg/Kg	6020A
Zinc		7.2		2.5	mg/Kg	6020A
Percent Moisture		4.7		0.10	%	Moisture
Percent Solids		95		0.10	%	Moisture
280-21683-16	**MG21 SB093**					
Antimony		0.022	J Q	0.21	mg/Kg	6020A
Copper		2.5	J	2.6	mg/Kg	6020A
Lead		2.9		0.10	mg/Kg	6020A
Nickel		1.9		0.36	mg/Kg	6020A
Zinc		6.3		2.5	mg/Kg	6020A
Percent Moisture		4.8		0.10	%	Moisture
Percent Solids		95		0.10	%	Moisture
280-21683-17	**MG24 SB100**					
Antimony		0.026	J Q	0.19	mg/Kg	6020A
Copper		3.2		2.3	mg/Kg	6020A
Lead		5.8		0.094	mg/Kg	6020A
Nickel		3.0		0.33	mg/Kg	6020A
Zinc		11		2.5	mg/Kg	6020A
Percent Moisture		3.8		0.10	%	Moisture
Percent Solids		96		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-18	**MG21 SB092**					
Antimony		0.023	J Q	0.21	mg/Kg	6020A
Copper		2.4	J	2.6	mg/Kg	6020A
Lead		4.1		0.10	mg/Kg	6020A
Nickel		2.2		0.36	mg/Kg	6020A
Zinc		8.3		2.6	mg/Kg	6020A
Percent Moisture		6.3		0.10	%	Moisture
Percent Solids		94		0.10	%	Moisture
280-21683-19	**MG35 SB123**					
Antimony		0.026	J Q	0.22	mg/Kg	6020A
Copper		3.8		2.7	mg/Kg	6020A
Lead		6.4		0.11	mg/Kg	6020A
Nickel		3.4		0.38	mg/Kg	6020A
Zinc		10		2.8	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture
280-21683-20	**MG26 SB105**					
Antimony		0.024	J Q	0.22	mg/Kg	6020A
Copper		1.4	J	2.7	mg/Kg	6020A
Lead		3.8		0.11	mg/Kg	6020A
Nickel		3.1		0.38	mg/Kg	6020A
Zinc		6.6		2.8	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21683-21	**MG24 SB101**					
Antimony		0.018	Q J	0.20	mg/Kg	6020A
Copper		2.2	J	2.5	mg/Kg	6020A
Lead		3.3		0.099	mg/Kg	6020A
Nickel		3.4		0.35	mg/Kg	6020A
Zinc		9.2	J	2.5	mg/Kg	6020A
Percent Moisture		5.3		0.10	%	Moisture
Percent Solids		95		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-22	**MG35 SB124**					
Antimony		0.014	J Q	0.19	mg/Kg	6020A
Copper		2.4		2.4	mg/Kg	6020A
Lead		3.5		0.096	mg/Kg	6020A
Nickel		3.8		0.33	mg/Kg	6020A
Zinc		9.1		2.4	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture
280-21683-23	**MG35 SB125**					
Copper		2.8		2.8	mg/Kg	6020A
Lead		4.0		0.11	mg/Kg	6020A
Nickel		3.8		0.39	mg/Kg	6020A
Zinc		9.7		2.8	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21683-24	**MG36 SB126**					
Antimony		0.014	J Q	0.20	mg/Kg	6020A
Copper		4.0		2.5	mg/Kg	6020A
Lead		4.1		0.10	mg/Kg	6020A
Nickel		4.4		0.35	mg/Kg	6020A
Zinc		14		2.5	mg/Kg	6020A
Percent Moisture		10		0.10	%	Moisture
Percent Solids		90		0.10	%	Moisture
280-21683-25	**MG36 SB127**					
Copper		2.2	J	2.8	mg/Kg	6020A
Lead		3.8		0.11	mg/Kg	6020A
Nickel		2.8		0.40	mg/Kg	6020A
Zinc		8.5		2.8	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
280-21683-26	**MG32 SB115**					
Copper		1.8	J	2.8	mg/Kg	6020A
Lead		16		0.11	mg/Kg	6020A
Nickel		2.2		0.39	mg/Kg	6020A
Zinc		7.8		2.8	mg/Kg	6020A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-27	**MG32 SB116**					
Copper		1.7	J	2.6	mg/Kg	6020A
Lead		4.4		0.11	mg/Kg	6020A
Nickel		3.5		0.37	mg/Kg	6020A
Zinc		9.5		2.6	mg/Kg	6020A
Percent Moisture		18		0.10	%	Moisture
Percent Solids		82		0.10	%	Moisture
280-21683-28	**MG33 SB117**					
Antimony		0.015	J Q	0.22	mg/Kg	6020A
Copper		3.6		2.7	mg/Kg	6020A
Lead		5.6		0.11	mg/Kg	6020A
Nickel		3.5		0.38	mg/Kg	6020A
Zinc		12		2.7	mg/Kg	6020A
Percent Moisture		15		0.10	%	Moisture
Percent Solids		85		0.10	%	Moisture
280-21683-29	**MG33 SB119**					
Antimony		0.014	J Q	0.20	mg/Kg	6020A
Copper		3.7		2.5	mg/Kg	6020A
Lead		6.0		0.10	mg/Kg	6020A
Nickel		4.8		0.36	mg/Kg	6020A
Zinc		12		2.5	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
280-21683-30	**MG33 SB118**					
Copper		2.1	J	2.5	mg/Kg	6020A
Lead		4.0		0.099	mg/Kg	6020A
Nickel		3.7		0.35	mg/Kg	6020A
Zinc		12		2.5	mg/Kg	6020A
Percent Moisture		10		0.10	%	Moisture
Percent Solids		90		0.10	%	Moisture
280-21683-31	**MG34 SB121**					
Copper		4.3		2.7	mg/Kg	6020A
Lead		4.3		0.11	mg/Kg	6020A
Nickel		6.2		0.37	mg/Kg	6020A
Zinc		17		2.7	mg/Kg	6020A
Percent Moisture		8.5		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-32	**MG34 SB122**					
Antimony		0.015	J Q	0.19	mg/Kg	6020A
Copper		4.3		2.3	mg/Kg	6020A
Lead		5.7		0.094	mg/Kg	6020A
Nickel		6.6		0.33	mg/Kg	6020A
Zinc		13		2.3	mg/Kg	6020A
Percent Moisture		7.2		0.10	%	Moisture
Percent Solids		93		0.10	%	Moisture
280-21683-33	**MG31 SB113**					
Copper		3.5		2.5	mg/Kg	6020A
Lead		3.7		0.099	mg/Kg	6020A
Nickel		3.5		0.35	mg/Kg	6020A
Zinc		10		2.5	mg/Kg	6020A
Percent Moisture		9.7		0.10	%	Moisture
Percent Solids		90		0.10	%	Moisture
280-21683-34	**MG31 SB114**					
Copper		3.3		2.7	mg/Kg	6020A
Lead		4.1		0.11	mg/Kg	6020A
Nickel		4.8		0.37	mg/Kg	6020A
Zinc		12		2.7	mg/Kg	6020A
Percent Moisture		8.5		0.10	%	Moisture
Percent Solids		92		0.10	%	Moisture
280-21683-35	**MG30 SB111**					
Antimony		0.015	J Q	0.20	mg/Kg	6020A
Copper		4.0		2.5	mg/Kg	6020A
Lead		5.4		0.099	mg/Kg	6020A
Nickel		3.3		0.35	mg/Kg	6020A
Zinc		10		2.5	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture
280-21683-36	**MG30 SB112**					
Antimony		0.014	J Q	0.21	mg/Kg	6020A
Copper		4.3		2.6	mg/Kg	6020A
Lead		4.5		0.10	mg/Kg	6020A
Nickel		4.7		0.36	mg/Kg	6020A
Zinc		13		2.6	mg/Kg	6020A
Percent Moisture		7.6		0.10	%	Moisture
Percent Solids		92		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-37	**MG29 SB109**					
Antimony		0.018	J Q	0.20	mg/Kg	6020A
Copper		3.6		2.5	mg/Kg	6020A
Lead		5.4		0.10	mg/Kg	6020A
Nickel		2.9		0.36	mg/Kg	6020A
Zinc		13		2.5	mg/Kg	6020A
Percent Moisture		10		0.10	%	Moisture
Percent Solids		90		0.10	%	Moisture
280-21683-38	**MG29 SB110**					
Antimony		0.014	J Q	0.20	mg/Kg	6020A
Copper		2.5		2.4	mg/Kg	6020A
Lead		4.0		0.098	mg/Kg	6020A
Nickel		3.3		0.34	mg/Kg	6020A
Zinc		9.0		2.4	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21683-39	**MG06 SB062**					
Antimony		0.015	J Q	0.19	mg/Kg	6020A
Copper		2.1	J	2.4	mg/Kg	6020A
Lead		7.0		0.095	mg/Kg	6020A
Nickel		2.5		0.33	mg/Kg	6020A
Zinc		9.3		2.4	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21683-40	**MG06 SB063**					
Antimony		0.015	J Q	0.21	mg/Kg	6020A
Copper		3.3		2.6	mg/Kg	6020A
Lead		4.6		0.11	mg/Kg	6020A
Nickel		3.2		0.37	mg/Kg	6020A
Zinc		12		2.6	mg/Kg	6020A
Percent Moisture		8.8		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-41	**MG06 SB064**					
Antimony		0.024	Q J	0.20	mg/Kg	6020A
Copper		3.2		2.5	mg/Kg	6020A
Lead		4.9		0.099	mg/Kg	6020A
Nickel		3.0		0.35	mg/Kg	6020A
Zinc		10		2.5	mg/Kg	6020A
Percent Moisture		8.5		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
280-21683-42	**MG05 SB060**					
Antimony		0.022	J Q	0.21	mg/Kg	6020A
Copper		3.1		2.7	mg/Kg	6020A
Lead		6.0		0.11	mg/Kg	6020A
Nickel		2.3		0.38	mg/Kg	6020A
Zinc		14		2.7	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21683-43	**MG05 SB061**					
Antimony		0.016	J Q	0.20	mg/Kg	6020A
Copper		2.6		2.5	mg/Kg	6020A
Lead		2.6		0.10	mg/Kg	6020A
Nickel		1.8		0.35	mg/Kg	6020A
Zinc		7.1		2.5	mg/Kg	6020A
Percent Moisture		5.5		0.10	%	Moisture
Percent Solids		94		0.10	%	Moisture
280-21683-44	**MG04 SB058**					
Antimony		0.017	J Q	0.19	mg/Kg	6020A
Copper		1.6	J	2.4	mg/Kg	6020A
Lead		5.2		0.095	mg/Kg	6020A
Nickel		1.2		0.33	mg/Kg	6020A
Zinc		5.0		2.4	mg/Kg	6020A
Percent Moisture		10		0.10	%	Moisture
Percent Solids		90		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-45	**MG04 SB059**					
Antimony		0.013	J Q	0.18	mg/Kg	6020A
Copper		3.1		2.2	mg/Kg	6020A
Lead		3.0		0.088	mg/Kg	6020A
Nickel		3.1		0.31	mg/Kg	6020A
Zinc		10		2.2	mg/Kg	6020A
Percent Moisture		5.1		0.10	%	Moisture
Percent Solids		95		0.10	%	Moisture
280-21683-46	**MG03 SB056**					
Antimony		0.015	J Q	0.19	mg/Kg	6020A
Copper		2.9		2.4	mg/Kg	6020A
Lead		6.8		0.096	mg/Kg	6020A
Nickel		2.5		0.34	mg/Kg	6020A
Zinc		9.5		2.4	mg/Kg	6020A
Percent Moisture		10		0.10	%	Moisture
Percent Solids		90		0.10	%	Moisture
280-21683-47	**MG03 SB057**					
Copper		3.2		2.5	mg/Kg	6020A
Lead		3.0		0.10	mg/Kg	6020A
Nickel		2.8		0.35	mg/Kg	6020A
Zinc		9.5		2.5	mg/Kg	6020A
Percent Moisture		4.8		0.10	%	Moisture
Percent Solids		95		0.10	%	Moisture
280-21683-48	**MG02 SB054**					
Copper		2.5	J	2.6	mg/Kg	6020A
Lead		3.8		0.10	mg/Kg	6020A
Nickel		2.4		0.36	mg/Kg	6020A
Zinc		8.6		2.6	mg/Kg	6020A
Percent Moisture		7.5		0.10	%	Moisture
Percent Solids		92		0.10	%	Moisture
280-21683-49	**MG02 SB055**					
Copper		4.1		2.4	mg/Kg	6020A
Lead		2.5		0.095	mg/Kg	6020A
Nickel		3.9		0.33	mg/Kg	6020A
Zinc		18		2.4	mg/Kg	6020A
Percent Moisture		5.5		0.10	%	Moisture
Percent Solids		94		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-50	**MG15 SB081**					
Antimony		0.013	J Q	0.18	mg/Kg	6020A
Copper		2.5		2.2	mg/Kg	6020A
Lead		7.9		0.090	mg/Kg	6020A
Nickel		2.2		0.31	mg/Kg	6020A
Zinc		9.1		2.2	mg/Kg	6020A
Percent Moisture		6.3		0.10	%	Moisture
Percent Solids		94		0.10	%	Moisture
280-21683-51	**MG15 SB082**					
Antimony		0.015	J Q	0.21	mg/Kg	6020A
Copper		2.2	J	2.6	mg/Kg	6020A
Lead		9.8		0.10	mg/Kg	6020A
Nickel		2.3		0.37	mg/Kg	6020A
Zinc		7.1		2.6	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture
280-21683-52	**MG12 SB073**					
Antimony		0.017	J Q	0.18	mg/Kg	6020A
Copper		1.8	J	2.3	mg/Kg	6020A
Lead		8.4		0.091	mg/Kg	6020A
Nickel		2.3		0.32	mg/Kg	6020A
Zinc		8.1		2.3	mg/Kg	6020A
Percent Moisture		8.6		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
280-21683-53	**MG12 SB075**					
Antimony		0.017	J Q	0.20	mg/Kg	6020A
Copper		1.7	J	2.5	mg/Kg	6020A
Lead		7.9		0.098	mg/Kg	6020A
Nickel		2.0		0.34	mg/Kg	6020A
Zinc		7.9		2.5	mg/Kg	6020A
Percent Moisture		7.3		0.10	%	Moisture
Percent Solids		93		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-54	**MG12 SB074**					
Copper		2.1	J	2.6	mg/Kg	6020A
Lead		3.8		0.10	mg/Kg	6020A
Nickel		3.9		0.37	mg/Kg	6020A
Zinc		10		2.6	mg/Kg	6020A
Percent Moisture		7.0		0.10	%	Moisture
Percent Solids		93		0.10	%	Moisture
280-21683-55	**MG11 SB071**					
Antimony		0.015	J Q	0.20	mg/Kg	6020A
Copper		2.6		2.5	mg/Kg	6020A
Lead		4.2		0.10	mg/Kg	6020A
Nickel		3.0		0.36	mg/Kg	6020A
Zinc		11		2.5	mg/Kg	6020A
Percent Moisture		9.2		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
280-21683-56	**MG11 SB072**					
Copper		2.0	J	2.5	mg/Kg	6020A
Lead		3.7		0.10	mg/Kg	6020A
Nickel		3.4		0.35	mg/Kg	6020A
Zinc		8.7		2.5	mg/Kg	6020A
Percent Moisture		8.8		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
280-21683-57	**MG14 SB079**					
Antimony		0.015	J Q	0.22	mg/Kg	6020A
Copper		2.2	J	2.8	mg/Kg	6020A
Lead		7.2		0.11	mg/Kg	6020A
Nickel		1.8		0.39	mg/Kg	6020A
Zinc		7.4		2.8	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21683-58	**MG14 SB080**					
Copper		2.3	J	2.7	mg/Kg	6020A
Lead		5.5		0.11	mg/Kg	6020A
Nickel		3.0		0.38	mg/Kg	6020A
Zinc		14		2.7	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-59	**MG13 SB077**					
Antimony		0.016	J Q	0.21	mg/Kg	6020A
Copper		2.8		2.6	mg/Kg	6020A
Lead		4.8		0.10	mg/Kg	6020A
Nickel		3.0		0.37	mg/Kg	6020A
Zinc		11		2.6	mg/Kg	6020A
Percent Moisture		10		0.10	%	Moisture
Percent Solids		90		0.10	%	Moisture
280-21683-60	**MG13 SB078**					
Copper		2.7		2.6	mg/Kg	6020A
Lead		4.4		0.11	mg/Kg	6020A
Nickel		3.0		0.37	mg/Kg	6020A
Zinc		9.8		2.6	mg/Kg	6020A
Percent Moisture		8.8		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
280-21683-61	**MG16 SB083**					
Antimony		0.025	Q J	0.20	mg/Kg	6020A
Copper		2.1	J	2.5	mg/Kg	6020A
Lead		8.3		0.10	mg/Kg	6020A
Nickel		2.1		0.36	mg/Kg	6020A
Zinc		6.2		2.5	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21683-62	**MG16 SB084**					
Copper		1.2	J	2.5	mg/Kg	6020A
Lead		3.0		0.099	mg/Kg	6020A
Nickel		1.6		0.35	mg/Kg	6020A
Zinc		4.7		2.5	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture
280-21683-63	**MG09 SB069**					
Antimony		0.018	J Q	0.21	mg/Kg	6020A
Copper		2.6		2.6	mg/Kg	6020A
Lead		4.3		0.10	mg/Kg	6020A
Nickel		2.2		0.36	mg/Kg	6020A
Zinc		8.0		2.6	mg/Kg	6020A
Percent Moisture		8.3		0.10	%	Moisture
Percent Solids		92		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-64	**MG09 SB070**					
Copper		2.5		2.5	mg/Kg	6020A
Lead		3.6		0.10	mg/Kg	6020A
Nickel		2.5		0.35	mg/Kg	6020A
Zinc		7.5		2.5	mg/Kg	6020A
Percent Moisture		7.1		0.10	%	Moisture
Percent Solids		93		0.10	%	Moisture
280-21683-65	**MG08 SB067**					
Antimony		0.019	J Q	0.20	mg/Kg	6020A
Copper		5.4		2.5	mg/Kg	6020A
Lead		8.1		0.099	mg/Kg	6020A
Nickel		4.0		0.35	mg/Kg	6020A
Zinc		13		2.5	mg/Kg	6020A
Percent Moisture		5.4		0.10	%	Moisture
Percent Solids		95		0.10	%	Moisture
280-21683-66	**MG08 SB068**					
Antimony		0.014	J Q	0.18	mg/Kg	6020A
Copper		3.7		2.3	mg/Kg	6020A
Lead		3.0		0.092	mg/Kg	6020A
Nickel		3.4		0.32	mg/Kg	6020A
Zinc		9.5		2.3	mg/Kg	6020A
Percent Moisture		5.2		0.10	%	Moisture
Percent Solids		95		0.10	%	Moisture
280-21683-67	**MG07 SB065**					
Antimony		0.016	J Q	0.20	mg/Kg	6020A
Copper		2.2	J	2.5	mg/Kg	6020A
Lead		6.3		0.099	mg/Kg	6020A
Nickel		1.7		0.35	mg/Kg	6020A
Zinc		6.8		2.5	mg/Kg	6020A
Percent Moisture		8.5		0.10	%	Moisture
Percent Solids		92		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-68	**MG07 SB066**					
Antimony		0.013	J Q	0.18	mg/Kg	6020A
Copper		2.5		2.3	mg/Kg	6020A
Lead		3.5		0.092	mg/Kg	6020A
Nickel		2.5		0.32	mg/Kg	6020A
Zinc		7.5		2.3	mg/Kg	6020A
Percent Moisture		4.9		0.10	%	Moisture
Percent Solids		95		0.10	%	Moisture
280-21683-69	**MG17 SB085**					
Antimony		0.013	J Q	0.18	mg/Kg	6020A
Copper		2.7		2.3	mg/Kg	6020A
Lead		5.1		0.091	mg/Kg	6020A
Nickel		3.2		0.32	mg/Kg	6020A
Zinc		14		2.3	mg/Kg	6020A
Percent Moisture		4.6		0.10	%	Moisture
Percent Solids		95		0.10	%	Moisture
280-21683-70	**MG17 SB086**					
Copper		1.9	J	2.5	mg/Kg	6020A
Lead		6.5		0.10	mg/Kg	6020A
Nickel		2.7		0.35	mg/Kg	6020A
Zinc		7.1		2.5	mg/Kg	6020A
Percent Moisture		5.4		0.10	%	Moisture
Percent Solids		95		0.10	%	Moisture
280-21683-71	**MG17 SB087**					
Copper		2.2	J	2.5	mg/Kg	6020A
Lead		6.6		0.099	mg/Kg	6020A
Nickel		2.9		0.35	mg/Kg	6020A
Zinc		8.2		2.5	mg/Kg	6020A
Percent Moisture		5.3		0.10	%	Moisture
Percent Solids		95		0.10	%	Moisture
280-21683-72	**MG18 SB088**					
Antimony		0.015	J Q	0.21	mg/Kg	6020A
Copper		2.4	J	2.6	mg/Kg	6020A
Lead		8.5		0.11	mg/Kg	6020A
Nickel		3.9		0.37	mg/Kg	6020A
Zinc		11		2.6	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc.   Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-73	**MG18 SB089**					
Copper		1.4	J	2.7	mg/Kg	6020A
Lead		3.9		0.11	mg/Kg	6020A
Nickel		3.5		0.38	mg/Kg	6020A
Zinc		7.8		2.7	mg/Kg	6020A
Percent Moisture		8.8		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
280-21683-74	**CP01 IS01**					
Antimony		0.057	J Q	0.19	mg/Kg	6020A
Copper		2.7		2.4	mg/Kg	6020A
Lead		22		0.097	mg/Kg	6020A
Nickel		1.5		0.34	mg/Kg	6020A
Zinc		11		2.4	mg/Kg	6020A
280-21683-75	**CP01 IS02**					
Antimony		0.083	J Q	0.19	mg/Kg	6020A
Copper		2.3		2.3	mg/Kg	6020A
Lead		25		0.094	mg/Kg	6020A
Nickel		1.6		0.33	mg/Kg	6020A
Zinc		13		2.3	mg/Kg	6020A
280-21683-76	**CP01 IS03**					
Antimony		0.028	Q J	0.19	mg/Kg	6020A
Copper		2.4		2.4	mg/Kg	6020A
Lead		14		0.096	mg/Kg	6020A
Nickel		1.5		0.33	mg/Kg	6020A
Zinc		10		2.4	mg/Kg	6020A
280-21683-77	**CP10 SB014**					
Antimony		0.020	J Q	0.20	mg/Kg	6020A
Copper		1.4	J	2.5	mg/Kg	6020A
Lead		7.5		0.10	mg/Kg	6020A
Nickel		1.8		0.35	mg/Kg	6020A
Zinc		9.7		2.5	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-78	**CP10 SB015**					
Antimony		0.016	J Q	0.22	mg/Kg	6020A
Copper		1.3	J	2.7	mg/Kg	6020A
Lead		4.9		0.11	mg/Kg	6020A
Nickel		2.2		0.38	mg/Kg	6020A
Zinc		10		2.7	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21683-79	**CP09 SB012**					
Copper		0.98	J	2.5	mg/Kg	6020A
Lead		14		0.10	mg/Kg	6020A
Nickel		1.3		0.35	mg/Kg	6020A
Zinc		7.3		2.5	mg/Kg	6020A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture
280-21683-80	**CP09 SB013**					
Copper		0.85	J	2.4	mg/Kg	6020A
Lead		4.7		0.097	mg/Kg	6020A
Nickel		1.8		0.34	mg/Kg	6020A
Zinc		7.5		2.4	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21683-81	**CP08 SB009**					
Antimony		0.018	Q J	0.20	mg/Kg	6020A
Copper		1.2	J	2.4	mg/Kg	6020A
Lead		7.8		0.098	mg/Kg	6020A
Nickel		1.7		0.34	mg/Kg	6020A
Zinc		8.1		2.4	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
280-21683-82	**CP08 SB010**					
Antimony		0.015	J Q	0.19	mg/Kg	6020A
Copper		1.4	J	2.3	mg/Kg	6020A
Lead		7.0		0.094	mg/Kg	6020A
Nickel		2.2		0.33	mg/Kg	6020A
Zinc		11		2.3	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-83	**CP08 SB011**					
Copper		1.4	J	2.7	mg/Kg	6020A
Lead		6.8		0.11	mg/Kg	6020A
Nickel		2.1		0.38	mg/Kg	6020A
Zinc		11		2.7	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture
280-21683-84	**CP11 SB16A**					
Antimony		0.39	Q	0.23	mg/Kg	6020A
Copper		2.1	J	2.8	mg/Kg	6020A
Lead		82		0.11	mg/Kg	6020A
Nickel		2.5		0.39	mg/Kg	6020A
Zinc		19		2.8	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21683-85	**CP11 SB16B**					
Antimony		0.072	J Q	0.20	mg/Kg	6020A
Copper		1.3	J	2.5	mg/Kg	6020A
Lead		17		0.10	mg/Kg	6020A
Nickel		2.8		0.35	mg/Kg	6020A
Zinc		11		2.5	mg/Kg	6020A
Percent Moisture		9.4		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
280-21683-86	**CP07 SB007**					
Copper		1.1	J	2.6	mg/Kg	6020A
Lead		6.5		0.10	mg/Kg	6020A
Nickel		1.4		0.37	mg/Kg	6020A
Zinc		7.8		2.6	mg/Kg	6020A
Percent Moisture		9.9		0.10	%	Moisture
Percent Solids		90		0.10	%	Moisture
280-21683-87	**CP07 SB008**					
Copper		0.78	J	2.6	mg/Kg	6020A
Lead		2.9		0.11	mg/Kg	6020A
Nickel		1.6		0.37	mg/Kg	6020A
Zinc		7.3		2.6	mg/Kg	6020A
Percent Moisture		8.8		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-88	**CP04 SB001**					
Copper		1.1	J	2.5	mg/Kg	6020A
Lead		6.1		0.10	mg/Kg	6020A
Nickel		0.83		0.36	mg/Kg	6020A
Zinc		5.1		2.5	mg/Kg	6020A
Percent Moisture		8.8		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
280-21683-89	**CP04 SB002**					
Copper		0.66	J	2.2	mg/Kg	6020A
Lead		2.5		0.090	mg/Kg	6020A
Nickel		0.97		0.31	mg/Kg	6020A
Zinc		4.4		2.2	mg/Kg	6020A
Percent Moisture		6.9		0.10	%	Moisture
Percent Solids		93		0.10	%	Moisture
280-21683-90	**CP06 SB005**					
Copper		1.2	J	2.6	mg/Kg	6020A
Lead		4.5		0.11	mg/Kg	6020A
Nickel		1.0		0.37	mg/Kg	6020A
Zinc		5.8		2.6	mg/Kg	6020A
Percent Moisture		9.1		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
280-21683-91	**CP06 SB006**					
Copper		0.75	J	2.6	mg/Kg	6020A
Lead		2.5		0.10	mg/Kg	6020A
Nickel		1.3		0.36	mg/Kg	6020A
Zinc		5.9		2.6	mg/Kg	6020A
Percent Moisture		7.5		0.10	%	Moisture
Percent Solids		93		0.10	%	Moisture
280-21683-92	**CP05 SB003**					
Copper		1.1	J	2.6	mg/Kg	6020A
Lead		5.2		0.10	mg/Kg	6020A
Nickel		0.84		0.36	mg/Kg	6020A
Zinc		7.0		2.6	mg/Kg	6020A
Percent Moisture		8.0		0.10	%	Moisture
Percent Solids		92		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21683-93	**CP05 SB004**					
Copper		0.85	J	2.6	mg/Kg	6020A
Lead		2.4		0.11	mg/Kg	6020A
Nickel		0.94		0.37	mg/Kg	6020A
Zinc		5.7		2.6	mg/Kg	6020A
Percent Moisture		6.9		0.10	%	Moisture
Percent Solids		93		0.10	%	Moisture
280-21683-94	**CP12 SB017**					
Copper		1.2	J	2.3	mg/Kg	6020A
Lead		21		0.094	mg/Kg	6020A
Nickel		1.6		0.33	mg/Kg	6020A
Zinc		6.0		2.3	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture
280-21683-95	**CP12 SB018**					
Copper		1.7	J	2.4	mg/Kg	6020A
Lead		6.6		0.095	mg/Kg	6020A
Nickel		4.4		0.33	mg/Kg	6020A
Zinc		9.9		2.4	mg/Kg	6020A
Percent Moisture		9.6		0.10	%	Moisture
Percent Solids		90		0.10	%	Moisture

METHOD SUMMARY

Client: UXB International, Inc. Job Number: 280-21683-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Nitroaromatics and Nitramines (LC/MS)	TAL DEN	SW846 8321B	
Extraction (Explosives) - Ring Puck			SW846 8330
Sonication Extraction (Explosives)			SW846 8330B
Nitroaromatics and Nitramines (LC/MS)	TAL DEN	SW846 8321B	
Incremental Sample Preparation			EPA Increm, Prep
Sonication Extraction (Explosives)			SW846 8330B
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Metals			SW846 3050B
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Incremental Sample Preparation			EPA Increm, Prep
Preparation, Metals			SW846 3050B
Percent Moisture	TAL DEN	EPA Moisture	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: UXB International, Inc. Job Number: 280-21683-1

Method	Analyst	Analyst ID
SW846 6020A	Lill, Thomas E	TEL
SW846 8321B	Meyer, Andrew GC	AGCM
EPA Moisture	Berry III, Paul B	PBB

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG26 SB104**

Lab Sample ID: 280-21683-1 | Date Sampled: 10/14/2011 0946
Client Matrix: Solid | Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92964	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92315	Lab File ID:	ex41J21183.d
Dilution:	1.0	Leach Batch:	280-91880	Initial Weight/Volume:	10.24 g
Analysis Date:	10/25/2011 2023			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1915			Injection Volume:	40 uL
Leach Date:	10/18/2011 2335				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.024	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.024	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0050	0.098
4-Nitrotoluene		0.024	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U Q	0.0050	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0074	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG19 IS016**

Lab Sample ID:	280-21683-2	Date Sampled:	10/13/2011 1315
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93548	Lab File ID:	ex41J21645.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.57 g
Analysis Date:	11/02/2011 0636			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/19/2011 2322				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0067	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0077	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0054	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.0099	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	79		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG19 IS017**

Lab Sample ID: 280-21683-3 Date Sampled: 10/13/2011 1653
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93548	Lab File ID:	ex41J21646.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.55 g
Analysis Date:	11/02/2011 0650			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/19/2011 2322				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0067	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0054	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	82		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG19 IS018**

Lab Sample ID: 280-21683-4 Date Sampled: 10/14/2011 0945
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93548	Lab File ID:	ex41J21647.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.19 g
Analysis Date:	11/02/2011 0703			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/19/2011 2322				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0074	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	88		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG20 SB090**

Lab Sample ID:	280-21683-5	Date Sampled:	10/13/2011 1555
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92964	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92315	Lab File ID:	ex41J21184.d
Dilution:	1.0	Leach Batch:	280-91880	Initial Weight/Volume:	10.06 g
Analysis Date:	10/25/2011 2036			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1915			Injection Volume:	40 uL
Leach Date:	10/18/2011 2335				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.099
1,3-Dinitrobenzene		0.012	U	0.0071	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0051	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U Q	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG20 SB091**

Lab Sample ID: 280-21683-6 Date Sampled: 10/13/2011 1625
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92964	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92315	Lab File ID:	ex41J21185.d
Dilution:	1.0	Leach Batch:	280-91880	Initial Weight/Volume:	10.60 g
Analysis Date:	10/25/2011 2050			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1915			Injection Volume:	40 uL
Leach Date:	10/18/2011 2335				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.094
1,3-Dinitrobenzene		0.012	U	0.0067	0.094
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.094
2,4-Dinitrotoluene		0.012	U	0.0077	0.094
2,6-Dinitrotoluene		0.024	U	0.019	0.094
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.011	0.094
2-Nitrotoluene		0.012	U	0.0054	0.094
3-Nitrotoluene		0.024	U	0.012	0.094
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0048	0.094
4-Nitrotoluene		0.024	U	0.010	0.094
HMX		0.012	U	0.0055	0.094
Nitrobenzene		0.012	U	0.010	0.094
Nitroglycerin		0.012	U	0.0099	0.094
PETN		0.012	U Q	0.0049	0.094
RDX		0.012	U	0.0041	0.094
Tetryl		0.012	U	0.0072	0.094

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG22 SB094**

Lab Sample ID: 280-21683-7 | Date Sampled: 10/13/2011 1646
Client Matrix: Solid | Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92964	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92315	Lab File ID:	ex41J21186.d
Dilution:	1.0	Leach Batch:	280-91880	Initial Weight/Volume:	10.47 g
Analysis Date:	10/25/2011 2104			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1915			Injection Volume:	40 uL
Leach Date:	10/18/2011 2335				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0078	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.011	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U Q	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0072	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID:	**MG22 SB095**		
Lab Sample ID:	280-21683-8	Date Sampled:	10/13/2011 1657
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92964	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92315	Lab File ID:	ex41J21187.d
Dilution:	1.0	Leach Batch:	280-91880	Initial Weight/Volume:	10.63 g
Analysis Date:	10/25/2011 2117			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1915			Injection Volume:	40 uL
Leach Date:	10/18/2011 2335				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.094
1,3-Dinitrobenzene		0.012	U	0.0067	0.094
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.094
2,4-Dinitrotoluene		0.012	U	0.0077	0.094
2,6-Dinitrotoluene		0.024	U	0.019	0.094
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.011	0.094
2-Nitrotoluene		0.012	U	0.0054	0.094
3-Nitrotoluene		0.024	U	0.012	0.094
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0048	0.094
4-Nitrotoluene		0.024	U	0.010	0.094
HMX		0.012	U	0.0055	0.094
Nitrobenzene		0.012	U	0.010	0.094
Nitroglycerin		0.012	U	0.0099	0.094
PETN		0.012	U Q	0.0048	0.094
RDX		0.012	U	0.0041	0.094
Tetryl		0.012	U	0.0071	0.094

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	82		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG22 SB096**

Lab Sample ID:	280-21683-9	Date Sampled:	10/13/2011 1646
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92964	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92315	Lab File ID:	ex41J21198.d
Dilution:	1.0	Leach Batch:	280-91880	Initial Weight/Volume:	10.11 g
Analysis Date:	10/26/2011 0712			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1915			Injection Volume:	40 uL
Leach Date:	10/18/2011 2335				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U Q	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG27 SB107**

Lab Sample ID: 280-21683-10 | Date Sampled: 10/14/2011 1017
Client Matrix: Solid | Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92964	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92315	Lab File ID:	ex41J21199.d
Dilution:	1.0	Leach Batch:	280-91880	Initial Weight/Volume:	10.28 g
Analysis Date:	10/26/2011 0726			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1915			Injection Volume:	40 uL
Leach Date:	10/18/2011 2335				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0080	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0050	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0057	0.097
Nitrobenzene		0.012	U	0.011	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U Q	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG27 SB106**

Lab Sample ID: 280-21683-11 Date Sampled: 10/14/2011 1009
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92964	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92315	Lab File ID:	ex41J21200.d
Dilution:	1.0	Leach Batch:	280-91880	Initial Weight/Volume:	10.59 g
Analysis Date:	10/26/2011 0739			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1915			Injection Volume:	40 uL
Leach Date:	10/18/2011 2335				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.094
1,3-Dinitrobenzene		0.012	U	0.0067	0.094
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.094
2,4-Dinitrotoluene		0.012	U	0.0077	0.094
2,6-Dinitrotoluene		0.024	U	0.019	0.094
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.011	0.094
2-Nitrotoluene		0.012	U	0.0054	0.094
3-Nitrotoluene		0.024	U	0.012	0.094
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0048	0.094
4-Nitrotoluene		0.024	U	0.010	0.094
HMX		0.012	U	0.0055	0.094
Nitrobenzene		0.012	U	0.010	0.094
Nitroglycerin		0.012	U	0.0099	0.094
PETN		0.012	U Q	0.0049	0.094
RDX		0.012	U	0.0041	0.094
Tetryl		0.012	U	0.0072	0.094

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	79		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG25 SB102**

Lab Sample ID:	280-21683-12	Date Sampled:	10/14/2011 1029
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92964	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92315	Lab File ID:	ex41J21204.d
Dilution:	1.0	Leach Batch:	280-91880	Initial Weight/Volume:	10.16 g
Analysis Date:	10/26/2011 0905			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1915			Injection Volume:	40 uL
Leach Date:	10/18/2011 2335				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.098
2,4-Dinitrotoluene		0.012	U	0.0081	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U Q	0.0051	0.098
RDX		0.012	U	0.0043	0.098
Tetryl		0.012	U	0.0075	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	75		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG23 SB099**

Lab Sample ID: 280-21683-13 Date Sampled: 10/14/2011 0858
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21156.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.20 g
Analysis Date:	10/25/2011 1414			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U Q	0.0050	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0074	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG25 SB103**

Lab Sample ID:	280-21683-14	Date Sampled:	10/14/2011 1033
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21157.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.52 g
Analysis Date:	10/25/2011 1428			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0055	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U Q	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG23 SB098**

Lab Sample ID: 280-21683-15 Date Sampled: 10/14/2011 0845
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21158.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.84 g
Analysis Date:	10/25/2011 1441			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.092
1,3-Dinitrobenzene		0.012	U	0.0066	0.092
2,4,6-Trinitrotoluene		0.012	U	0.0046	0.092
2,4-Dinitrotoluene		0.012	U	0.0076	0.092
2,6-Dinitrotoluene		0.023	U	0.018	0.092
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.092
2-Nitrotoluene		0.012	U	0.0053	0.092
3-Nitrotoluene		0.023	U	0.012	0.092
4-Amino-2,6-dinitrotoluene		0.012	U	0.0047	0.092
4-Nitrotoluene		0.023	U	0.010	0.092
HMX		0.012	U	0.0054	0.092
Nitrobenzene		0.012	U	0.010	0.092
Nitroglycerin		0.012	U	0.0097	0.092
PETN		0.012	U Q	0.0048	0.092
RDX		0.012	U	0.0040	0.092
Tetryl		0.012	U	0.0070	0.092

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	75		68 - 140

Client: UXB International, Inc.

Job Number: 280-21683-1

Client Sample ID: **MG21 SB093**

Lab Sample ID: 280-21683-16

Client Matrix: Solid

Date Sampled: 10/14/2011 0911

Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21159.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.72 g
Analysis Date:	10/25/2011 1455			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0076	0.093
2,6-Dinitrotoluene		0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.093
2-Nitrotoluene		0.012	U	0.0054	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0098	0.093
PETN		0.012	U Q	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0071	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID:	**MG24 SB100**		
Lab Sample ID:	280-21683-17	Date Sampled:	10/14/2011 0927
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21160.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.37 g
Analysis Date:	10/25/2011 1509			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0069	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U Q	0.0050	0.096
RDX		0.012	U	0.0042	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG21 SB092**

Lab Sample ID: 280-21683-18 | Date Sampled: 10/14/2011 0905
Client Matrix: Solid | Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21161.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.07 g
Analysis Date:	10/25/2011 1522			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.099
1,3-Dinitrobenzene		0.012	U	0.0071	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U Q	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	86		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG35 SB123**

Lab Sample ID:	280-21683-19	Date Sampled:	10/14/2011 1029
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21165.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.08 g
Analysis Date:	10/25/2011 1617			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.099
1,3-Dinitrobenzene		0.012	U	0.0071	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0051	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG26 SB105**

Lab Sample ID:	280-21683-20	Date Sampled:	10/14/2011 0952
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21166.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.18 g
Analysis Date:	10/25/2011 1631			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0075	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	73		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG24 SB101**

Lab Sample ID:	280-21683-21	Date Sampled:	10/14/2011 0933
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21167.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.44 g
Analysis Date:	10/25/2011 1644			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0078	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.011	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	72		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG35 SB124**

Lab Sample ID:	280-21683-22	Date Sampled:	10/14/2011 1130
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21168.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.48 g
Analysis Date:	10/25/2011 1658			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.011	0.095
2-Nitrotoluene		0.012	U	0.0055	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0049	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0056	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG35 SB125**

Lab Sample ID:	280-21683-23	Date Sampled:	10/14/2011 1130
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21169.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.15 g
Analysis Date:	10/25/2011 1712			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0057	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	72		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: MG36 SB126

Lab Sample ID:	280-21683-24	Date Sampled:	10/14/2011 1146
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21170.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.58 g
Analysis Date:	10/25/2011 1725			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0067	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0077	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.011	0.095
2-Nitrotoluene		0.012	U	0.0054	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0048	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.0099	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83		68 - 140

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG36 SB127**

Lab Sample ID:	280-21683-25	Date Sampled:	10/14/2011 1156
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21171.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.77 g
Analysis Date:	10/25/2011 1739			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0076	0.093
2,6-Dinitrotoluene		0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U Q	0.011	0.093
2-Nitrotoluene		0.012	U	0.0053	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0047	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0097	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0070	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG32 SB115**

Lab Sample ID:	280-21683-26	Date Sampled:	10/14/2011 1410
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21173.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.12 g
Analysis Date:	10/25/2011 1806			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG32 SB116**

Lab Sample ID:	280-21683-27	Date Sampled:	10/14/2011 1420
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21174.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.81 g
Analysis Date:	10/25/2011 1820			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0076	0.093
2,6-Dinitrotoluene		0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U Q	0.011	0.093
2-Nitrotoluene		0.012	U	0.0053	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0047	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0097	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0070	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG33 SB117**

Lab Sample ID: 280-21683-28 Date Sampled: 10/15/2011 0841
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21175.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.45 g
Analysis Date:	10/25/2011 1833			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0078	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.011	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG33 SB119**

Lab Sample ID:	280-21683-29	Date Sampled:	10/15/2011 0841
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21176.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.77 g
Analysis Date:	10/25/2011 1847			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0076	0.093
2,6-Dinitrotoluene		0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U Q	0.011	0.093
2-Nitrotoluene		0.012	U	0.0053	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0047	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0097	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0070	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG33 SB118**

Lab Sample ID: 280-21683-30 Date Sampled: 10/15/2011 0853
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21177.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.06 g
Analysis Date:	10/25/2011 1901			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.099
1,3-Dinitrobenzene		0.012	U	0.0071	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0051	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG34 SB121**

Lab Sample ID:	280-21683-31	Date Sampled:	10/15/2011 0906
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21178.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.15 g
Analysis Date:	10/25/2011 1914			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0057	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG34 SB122**

Lab Sample ID: 280-21683-32 Date Sampled: 10/15/2011 0915
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92314	Lab File ID:	ex41J21179.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.16 g
Analysis Date:	10/25/2011 1928			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.098
2,4-Dinitrotoluene		0.012	U	0.0081	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0043	0.098
Tetryl		0.012	U	0.0075	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG31 SB113**

Lab Sample ID:	280-21683-33	Date Sampled:	10/15/2011 0926
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21562.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.15 g
Analysis Date:	11/01/2011 1142			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0057	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	91		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG31 SB114**

Lab Sample ID: 280-21683-34 Date Sampled: 10/15/2011 0933
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21563.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.30 g
Analysis Date:	11/01/2011 1155			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0080	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0057	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	87		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG30 SB111**

Lab Sample ID: 280-21683-35 | Date Sampled: 10/15/2011 0945
Client Matrix: Solid | Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21564.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.45 g
Analysis Date:	11/01/2011 1209			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0078	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG30 SB112**

Lab Sample ID: 280-21683-36 Date Sampled: 10/15/2011 0951
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21565.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.19 g
Analysis Date:	11/01/2011 1222			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0074	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	82		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG29 SB109**

Lab Sample ID:	280-21683-37	Date Sampled:	10/15/2011 1000
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21566.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.40 g
Analysis Date:	11/01/2011 1238			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0050	0.096
RDX		0.012	U	0.0042	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG29 SB110**

Lab Sample ID:	280-21683-38	Date Sampled:	10/15/2011 1005
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21567.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.27 g
Analysis Date:	11/01/2011 1251			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0080	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0057	0.097
Nitrobenzene		0.012	U	0.011	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG06 SB062**

Lab Sample ID:	280-21683-39	Date Sampled:	10/15/2011 1311
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21569.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.03 g
Analysis Date:	11/01/2011 1319			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.10
1,3-Dinitrobenzene		0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.10
2,4-Dinitrotoluene		0.012	U	0.0082	0.10
2,6-Dinitrotoluene		0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.10
2-Nitrotoluene		0.012	U	0.0057	0.10
3-Nitrotoluene		0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.10
4-Nitrotoluene		0.025	U	0.011	0.10
HMX		0.012	U	0.0058	0.10
Nitrobenzene		0.012	U	0.011	0.10
Nitroglycerin		0.012	U	0.010	0.10
PETN		0.012	U	0.0051	0.10
RDX		0.012	U	0.0043	0.10
Tetryl		0.012	U	0.0076	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG06 SB063**

Lab Sample ID:	280-21683-40	Date Sampled:	10/15/2011 1316
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21570.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.05 g
Analysis Date:	11/01/2011 1333			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.10
1,3-Dinitrobenzene		0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.10
2,4-Dinitrotoluene		0.012	U	0.0081	0.10
2,6-Dinitrotoluene		0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.10
2-Nitrotoluene		0.012	U	0.0057	0.10
3-Nitrotoluene		0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.10
4-Nitrotoluene		0.025	U	0.011	0.10
HMX		0.012	U	0.0058	0.10
Nitrobenzene		0.012	U	0.011	0.10
Nitroglycerin		0.012	U	0.010	0.10
PETN		0.012	U	0.0051	0.10
RDX		0.012	U	0.0043	0.10
Tetryl		0.012	U	0.0076	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	75		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG06 SB064**

Lab Sample ID:	280-21683-41	Date Sampled:	10/15/2011 1316
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21571.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.91 g
Analysis Date:	11/01/2011 1346			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.092
1,3-Dinitrobenzene		0.011	U	0.0065	0.092
2,4,6-Trinitrotoluene		0.011	U	0.0046	0.092
2,4-Dinitrotoluene		0.011	U	0.0075	0.092
2,6-Dinitrotoluene		0.023	U	0.018	0.092
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.092
2-Nitrotoluene		0.011	U	0.0053	0.092
3-Nitrotoluene		0.023	U	0.012	0.092
4-Amino-2,6-dinitrotoluene		0.011	U	0.0047	0.092
4-Nitrotoluene		0.023	U	0.010	0.092
HMX		0.011	U	0.0053	0.092
Nitrobenzene		0.011	U	0.0099	0.092
Nitroglycerin		0.011	U	0.0096	0.092
PETN		0.011	U	0.0047	0.092
RDX		0.011	U	0.0040	0.092
Tetryl		0.011	U	0.0070	0.092

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	72		68 - 140

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG05 SB060**

Lab Sample ID:	280-21683-42	Date Sampled:	10/15/2011 1328
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21572.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.30 g
Analysis Date:	11/01/2011 1400			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0080	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0057	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG05 SB061**

Lab Sample ID:	280-21683-43	Date Sampled:	10/15/2011 1330
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21573.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.90 g
Analysis Date:	11/01/2011 1414			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.092
1,3-Dinitrobenzene		0.011	U	0.0065	0.092
2,4,6-Trinitrotoluene		0.011	U	0.0046	0.092
2,4-Dinitrotoluene		0.011	U	0.0075	0.092
2,6-Dinitrotoluene		0.023	U	0.018	0.092
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.092
2-Nitrotoluene		0.011	U	0.0053	0.092
3-Nitrotoluene		0.023	U	0.012	0.092
4-Amino-2,6-dinitrotoluene		0.011	U	0.0047	0.092
4-Nitrotoluene		0.023	U	0.010	0.092
HMX		0.011	U	0.0053	0.092
Nitrobenzene		0.011	U	0.0099	0.092
Nitroglycerin		0.011	U	0.0096	0.092
PETN		0.011	U	0.0047	0.092
RDX		0.011	U	0.0040	0.092
Tetryl		0.011	U	0.0070	0.092

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG04 SB058**

Lab Sample ID:	280-21683-44	Date Sampled:	10/15/2011 1339
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21574.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.50 g
Analysis Date:	11/01/2011 1427			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0055	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0056	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG04 SB059**

Lab Sample ID: 280-21683-45 Date Sampled: 10/15/2011 1341
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21575.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.02 g
Analysis Date:	11/01/2011 1441			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.10
1,3-Dinitrobenzene		0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.10
2,4-Dinitrotoluene		0.012	U	0.0082	0.10
2,6-Dinitrotoluene		0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.10
2-Nitrotoluene		0.012	U	0.0057	0.10
3-Nitrotoluene		0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.10
4-Nitrotoluene		0.025	U	0.011	0.10
HMX		0.012	U	0.0058	0.10
Nitrobenzene		0.012	U	0.011	0.10
Nitroglycerin		0.012	U	0.010	0.10
PETN		0.012	U	0.0051	0.10
RDX		0.012	U	0.0043	0.10
Tetryl		0.012	U	0.0076	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	72		68 - 140

Client: UXB International, Inc.　　Job Number: 280-21683-1

Client Sample ID: **MG03 SB056**

Lab Sample ID:	280-21683-46	Date Sampled:	10/15/2011 1351
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21576.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.13 g
Analysis Date:	11/01/2011 1454			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	85		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG03 SB057**

Lab Sample ID: 280-21683-47 Date Sampled: 10/15/2011 1353
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21578.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.15 g
Analysis Date:	11/01/2011 1522			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0057	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG02 SB054**

Lab Sample ID: 280-21683-48 Date Sampled: 10/15/2011 1404
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21581.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.05 g
Analysis Date:	11/01/2011 1603			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.10
1,3-Dinitrobenzene		0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.10
2,4-Dinitrotoluene		0.012	U	0.0081	0.10
2,6-Dinitrotoluene		0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.10
2-Nitrotoluene		0.012	U	0.0057	0.10
3-Nitrotoluene		0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.10
4-Nitrotoluene		0.025	U	0.011	0.10
HMX		0.012	U	0.0058	0.10
Nitrobenzene		0.012	U	0.011	0.10
Nitroglycerin		0.012	U	0.010	0.10
PETN		0.012	U	0.0051	0.10
RDX		0.012	U	0.0043	0.10
Tetryl		0.012	U	0.0076	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	90		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG02 SB055**

Lab Sample ID: 280-21683-49 Date Sampled: 10/15/2011 1406
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21582.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.34 g
Analysis Date:	11/01/2011 1617			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0079	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0056	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0073	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	72		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID:	**MG15 SB081**		
Lab Sample ID:	280-21683-50	Date Sampled:	10/15/2011 1419
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21583.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.50 g
Analysis Date:	11/01/2011 1630			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.011	0.095
2-Nitrotoluene		0.012	U	0.0055	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0056	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG15 SB082**

Lab Sample ID: 280-21683-51 Date Sampled: 10/15/2011 1422
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21584.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.08 g
Analysis Date:	11/01/2011 1644			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.099
1,3-Dinitrobenzene		0.012	U	0.0071	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG12 SB073**

Lab Sample ID:	280-21683-52	Date Sampled:	10/15/2011 1440
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92311	Lab File ID:	ex41J21585.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.03 g
Analysis Date:	11/01/2011 1658			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.10
1,3-Dinitrobenzene		0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.10
2,4-Dinitrotoluene		0.012	U	0.0082	0.10
2,6-Dinitrotoluene		0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.10
2-Nitrotoluene		0.012	U	0.0057	0.10
3-Nitrotoluene		0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.10
4-Nitrotoluene		0.025	U	0.011	0.10
HMX		0.012	U	0.0058	0.10
Nitrobenzene		0.012	U	0.011	0.10
Nitroglycerin		0.012	U	0.010	0.10
PETN		0.012	U	0.0051	0.10
RDX		0.012	U	0.0043	0.10
Tetryl		0.012	U	0.0076	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG12 SB075**

Lab Sample ID:	280-21683-53	Date Sampled:	10/15/2011 1440
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21589.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.70 g
Analysis Date:	11/01/2011 1753			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0067	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0077	0.093
2,6-Dinitrotoluene		0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U Q	0.011	0.093
2-Nitrotoluene		0.012	U	0.0054	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0098	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0071	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG12 SB074**

Lab Sample ID: 280-21683-54 Date Sampled: 10/15/2011 1443
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21590.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.18 g
Analysis Date:	11/01/2011 1806			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0075	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG11 SB071**

Lab Sample ID: 280-21683-55 Date Sampled: 10/15/2011 1455
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21593.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.32 g
Analysis Date:	11/01/2011 1847			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0079	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0056	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: MG11 SB072

Lab Sample ID: 280-21683-56 Date Sampled: 10/15/2011 1457
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21594.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.52 g
Analysis Date:	11/01/2011 1900			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.011	0.095
2-Nitrotoluene		0.012	U	0.0055	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	91		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG14 SB079**

Lab Sample ID:	280-21683-57	Date Sampled:	10/15/2011 1512
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21596.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.05 g
Analysis Date:	11/01/2011 1928			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.10
1,3-Dinitrobenzene		0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.10
2,4-Dinitrotoluene		0.012	U	0.0081	0.10
2,6-Dinitrotoluene		0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.10
2-Nitrotoluene		0.012	U	0.0057	0.10
3-Nitrotoluene		0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.10
4-Nitrotoluene		0.025	U	0.011	0.10
HMX		0.012	U	0.0058	0.10
Nitrobenzene		0.012	U	0.011	0.10
Nitroglycerin		0.012	U	0.010	0.10
PETN		0.012	U	0.0051	0.10
RDX		0.012	U	0.0043	0.10
Tetryl		0.012	U	0.0076	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	82		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: MG14 SB080

Lab Sample ID:	280-21683-58	Date Sampled:	10/15/2011 1515
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21597.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.06 g
Analysis Date:	11/01/2011 1942			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.099
1,3-Dinitrobenzene		0.012	U	0.0071	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	85		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG13 SB077**

Lab Sample ID: 280-21683-59 Date Sampled: 10/15/2011 1524
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21598.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.55 g
Analysis Date:	11/01/2011 1955			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0067	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0054	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	88		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: MG13 SB078

Lab Sample ID: 280-21683-60 Date Sampled: 10/15/2011 1526
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21599.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.55 g
Analysis Date:	11/01/2011 2009			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0067	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0054	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	73		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG16 SB083**

Lab Sample ID:	280-21683-61	Date Sampled:	10/15/2011 1537
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21600.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.18 g
Analysis Date:	11/01/2011 2022			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0075	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	86		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG16 SB084**

Lab Sample ID:	280-21683-62	Date Sampled:	10/15/2011 1540
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21601.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.08 g
Analysis Date:	11/01/2011 2036			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.099
1,3-Dinitrobenzene		0.012	U	0.0071	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	87		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: MG09 SB069

Lab Sample ID:	280-21683-63	Date Sampled:	10/15/2011 1601
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21602.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.04 g
Analysis Date:	11/01/2011 2049			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.10
1,3-Dinitrobenzene		0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.10
2,4-Dinitrotoluene		0.012	U	0.0082	0.10
2,6-Dinitrotoluene		0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.10
2-Nitrotoluene		0.012	U	0.0057	0.10
3-Nitrotoluene		0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.10
4-Nitrotoluene		0.025	U	0.011	0.10
HMX		0.012	U	0.0058	0.10
Nitrobenzene		0.012	U	0.011	0.10
Nitroglycerin		0.012	U	0.010	0.10
PETN		0.012	U	0.0051	0.10
RDX		0.012	U	0.0043	0.10
Tetryl		0.012	U	0.0076	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG09 SB070**

Lab Sample ID:	280-21683-64	Date Sampled:	10/15/2011 1603
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21603.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.33 g
Analysis Date:	11/01/2011 2103			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0079	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0056	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0073	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG08 SB067**

Lab Sample ID: 280-21683-65 Date Sampled: 10/15/2011 1614
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21605.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.41 g
Analysis Date:	11/01/2011 2130			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	96		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG08 SB068**

Lab Sample ID: 280-21683-66 Date Sampled: 10/15/2011 1617
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21606.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.04 g
Analysis Date:	11/01/2011 2144			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.10
1,3-Dinitrobenzene		0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.10
2,4-Dinitrotoluene		0.012	U	0.0082	0.10
2,6-Dinitrotoluene		0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.10
2-Nitrotoluene		0.012	U	0.0057	0.10
3-Nitrotoluene		0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.10
4-Nitrotoluene		0.025	U	0.011	0.10
HMX		0.012	U	0.0058	0.10
Nitrobenzene		0.012	U	0.011	0.10
Nitroglycerin		0.012	U	0.010	0.10
PETN		0.012	U	0.0051	0.10
RDX		0.012	U	0.0043	0.10
Tetryl		0.012	U	0.0076	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG07 SB065**

Lab Sample ID:	280-21683-67	Date Sampled:	10/15/2011 1628
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21607.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.12 g
Analysis Date:	11/01/2011 2158			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG07 SB066**

Lab Sample ID: 280-21683-68 | Date Sampled: 10/15/2011 1629
Client Matrix: Solid | Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21608.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.53 g
Analysis Date:	11/01/2011 2211			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0055	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	85		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG17 SB085**

Lab Sample ID:	280-21683-69	Date Sampled:	10/15/2011 1641
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21609.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.58 g
Analysis Date:	11/01/2011 2225			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0067	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0077	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0054	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.0099	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG17 SB086**

Lab Sample ID: 280-21683-70 Date Sampled: 10/15/2011 1643
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21610.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.88 g
Analysis Date:	11/01/2011 2238			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.092
1,3-Dinitrobenzene		0.011	U	0.0065	0.092
2,4,6-Trinitrotoluene		0.011	U	0.0046	0.092
2,4-Dinitrotoluene		0.011	U	0.0075	0.092
2,6-Dinitrotoluene		0.023	U	0.018	0.092
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.092
2-Nitrotoluene		0.011	U	0.0053	0.092
3-Nitrotoluene		0.023	U	0.012	0.092
4-Amino-2,6-dinitrotoluene		0.011	U	0.0047	0.092
4-Nitrotoluene		0.023	U	0.010	0.092
HMX		0.011	U	0.0054	0.092
Nitrobenzene		0.011	U	0.0099	0.092
Nitroglycerin		0.011	U	0.0097	0.092
PETN		0.011	U	0.0047	0.092
RDX		0.011	U	0.0040	0.092
Tetryl		0.011	U	0.0070	0.092

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG17 SB087**

Lab Sample ID: 280-21683-71 | Date Sampled: 10/15/2011 1643
Client Matrix: Solid | Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21611.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.22 g
Analysis Date:	11/01/2011 2252			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.024	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.024	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.024	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0050	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0074	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	87		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG18 SB088**

Lab Sample ID:	280-21683-72	Date Sampled:	10/15/2011 1656
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92097	Lab File ID:	ex41J21612.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.06 g
Analysis Date:	11/01/2011 2306			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.099
1,3-Dinitrobenzene		0.012	U	0.0071	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG18 SB089**

Lab Sample ID: 280-21683-73 Date Sampled: 10/15/2011 1658
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21616.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.43 g
Analysis Date:	11/02/2011 0001			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	85		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **CP01 IS01**

Lab Sample ID:	280-21683-74	Date Sampled:	10/16/2011 1150
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93548	Lab File ID:	ex41J21648.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.13 g
Analysis Date:	11/02/2011 0717			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/19/2011 2322				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		68 - 140

Client: UXB International, Inc.   Job Number: 280-21683-1

Client Sample ID: **CP01 IS02**

Lab Sample ID:	280-21683-75	Date Sampled:	10/16/2011 1321
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93548	Lab File ID:	ex41J21649.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.27 g
Analysis Date:	11/02/2011 0730			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/19/2011 2322				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U M	0.0049	0.097
2,4-Dinitrotoluene		0.012	U M	0.0080	0.097
2,6-Dinitrotoluene		0.024	U M	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0057	0.097
Nitrobenzene		0.012	U	0.011	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP01 IS03**

Lab Sample ID: 280-21683-76 Date Sampled: 10/16/2011 1432
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93548	Lab File ID:	ex41J21650.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.36 g
Analysis Date:	11/02/2011 0744			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/19/2011 2322				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U M	0.0079	0.097
2,6-Dinitrotoluene		0.024	U M	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0055	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0056	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0073	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP10 SB014**

Lab Sample ID:	280-21683-77	Date Sampled:	10/16/2011 1120
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21617.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.48 g
Analysis Date:	11/02/2011 0014			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0055	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0056	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	85		68 - 140

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **CP10 SB015**

Lab Sample ID: 280-21683-78 | Date Sampled: 10/16/2011 1124
Client Matrix: Solid | Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21618.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.06 g
Analysis Date:	11/02/2011 0028			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.099
1,3-Dinitrobenzene		0.012	U	0.0071	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP09 SB012**

Lab Sample ID: 280-21683-79 Date Sampled: 10/16/2011 1140
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21619.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.18 g
Analysis Date:	11/02/2011 0041			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0075	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	85		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP09 SB013**

Lab Sample ID:	280-21683-80	Date Sampled:	10/16/2011 1142
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21620.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.79 g
Analysis Date:	11/02/2011 0055			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0076	0.093
2,6-Dinitrotoluene		0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.093
2-Nitrotoluene		0.012	U	0.0053	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U	0.0047	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0097	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0070	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	87		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP08 SB009**

Lab Sample ID: 280-21683-81 Date Sampled: 10/16/2011 1155
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21624.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.48 g
Analysis Date:	11/02/2011 0150			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0055	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0056	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **CP08 SB010**

Lab Sample ID:	280-21683-82	Date Sampled:	10/16/2011 1159
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21625.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.40 g
Analysis Date:	11/02/2011 0203			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0050	0.096
RDX		0.012	U	0.0042	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP08 SB011**

Lab Sample ID:	280-21683-83	Date Sampled:	10/16/2011 1159
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21626.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.44 g
Analysis Date:	11/02/2011 0217			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0078	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	85		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP11 SB16A**

Lab Sample ID:	280-21683-84	Date Sampled:	10/16/2011 1241
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21627.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.32 g
Analysis Date:	11/02/2011 0230			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0079	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0056	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: CP11 SB16B

Lab Sample ID:	280-21683-85	Date Sampled:	10/16/2011 1243
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21628.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.48 g
Analysis Date:	11/02/2011 0244			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0055	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0056	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	89		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP07 SB007**

Lab Sample ID:	280-21683-86	Date Sampled:	10/16/2011 1300
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21629.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.30 g
Analysis Date:	11/02/2011 0258			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0080	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0057	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	79		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **CP07 SB008**

Lab Sample ID:	280-21683-87	Date Sampled:	10/16/2011 1303
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21630.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.68 g
Analysis Date:	11/02/2011 0311			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.094
1,3-Dinitrobenzene		0.012	U	0.0067	0.094
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.094
2,4-Dinitrotoluene		0.012	U	0.0077	0.094
2,6-Dinitrotoluene		0.023	U	0.019	0.094
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.094
2-Nitrotoluene		0.012	U	0.0054	0.094
3-Nitrotoluene		0.023	U	0.012	0.094
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.094
4-Nitrotoluene		0.023	U	0.010	0.094
HMX		0.012	U	0.0055	0.094
Nitrobenzene		0.012	U	0.010	0.094
Nitroglycerin		0.012	U	0.0098	0.094
PETN		0.012	U	0.0048	0.094
RDX		0.012	U	0.0040	0.094
Tetryl		0.012	U	0.0071	0.094

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **CP04 SB001**

Lab Sample ID: 280-21683-88 | Date Sampled: 10/16/2011 1320
Client Matrix: Solid | Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21631.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.59 g
Analysis Date:	11/02/2011 0325			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.094
1,3-Dinitrobenzene		0.012	U	0.0067	0.094
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.094
2,4-Dinitrotoluene		0.012	U	0.0077	0.094
2,6-Dinitrotoluene		0.024	U	0.019	0.094
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.094
2-Nitrotoluene		0.012	U	0.0054	0.094
3-Nitrotoluene		0.024	U	0.012	0.094
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.094
4-Nitrotoluene		0.024	U	0.010	0.094
HMX		0.012	U	0.0055	0.094
Nitrobenzene		0.012	U	0.010	0.094
Nitroglycerin		0.012	U	0.0099	0.094
PETN		0.012	U	0.0049	0.094
RDX		0.012	U	0.0041	0.094
Tetryl		0.012	U	0.0072	0.094

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP04 SB002**

Lab Sample ID: 280-21683-89 Date Sampled: 10/16/2011 1325
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21633.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.18 g
Analysis Date:	11/02/2011 0352			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0075	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	86		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP06 SB005**

Lab Sample ID: 280-21683-90
Client Matrix: Solid

Date Sampled: 10/16/2011 1340
Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21634.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.85 g
Analysis Date:	11/02/2011 0406			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.092
1,3-Dinitrobenzene		0.012	U	0.0066	0.092
2,4,6-Trinitrotoluene		0.012	U	0.0046	0.092
2,4-Dinitrotoluene		0.012	U	0.0075	0.092
2,6-Dinitrotoluene		0.023	U	0.018	0.092
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.092
2-Nitrotoluene		0.012	U	0.0053	0.092
3-Nitrotoluene		0.023	U	0.012	0.092
4-Amino-2,6-dinitrotoluene		0.012	U	0.0047	0.092
4-Nitrotoluene		0.023	U	0.010	0.092
HMX		0.012	U	0.0054	0.092
Nitrobenzene		0.012	U	0.010	0.092
Nitroglycerin		0.012	U	0.0097	0.092
PETN		0.012	U	0.0047	0.092
RDX		0.012	U	0.0040	0.092
Tetryl		0.012	U	0.0070	0.092

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	86		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP06 SB006**

Lab Sample ID:	280-21683-91	Date Sampled:	10/16/2011 1343
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21635.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.13 g
Analysis Date:	11/02/2011 0420			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	73		68 - 140

Analytical Data

Client: UXB International, Inc.　　　　Job Number: 280-21683-1

Client Sample ID: **CP05 SB003**

Lab Sample ID:	280-21683-92	Date Sampled:	10/16/2011 1401
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21636.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.13 g
Analysis Date:	11/02/2011 0433			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP05 SB004**

Lab Sample ID: 280-21683-93 Date Sampled: 10/16/2011 1404
Client Matrix: Solid Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21637.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.14 g
Analysis Date:	11/02/2011 0447			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0057	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84		68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **CP12 SB017**

Lab Sample ID: 280-21683-94 | Date Sampled: 10/16/2011 1522
Client Matrix: Solid | Date Received: 10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21638.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.12 g
Analysis Date:	11/02/2011 0500			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	79		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP12 SB018**

Lab Sample ID:	280-21683-95	Date Sampled:	10/16/2011 1525
Client Matrix:	Solid	Date Received:	10/18/2011 0900

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92102	Lab File ID:	ex41J21639.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.22 g
Analysis Date:	11/02/2011 0514			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.024	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.024	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.024	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0050	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0074	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	90		68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG26 SB104**

Lab Sample ID:	280-21683-1		Date Sampled: 10/14/2011 0946
Client Matrix:	Solid	% Moisture: 14.2	Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	038AREF.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/01/2011 1947			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.027	Q J	0.015	0.22
Copper		2.3	J	0.077	2.7
Lead		6.1		0.020	0.11
Nickel		2.5		0.028	0.38

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	051AREF.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/03/2011 0018			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		9.3		0.34	2.7

Analytical Data

Client: UXB International, Inc.

Job Number: 280-21683-1

Client Sample ID: **MG19 IS016**

Lab Sample ID:	280-21683-2	Date Sampled:	10/13/2011 1315
Client Matrix:	Solid	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94043	Lab File ID:	021SMPL.D
Dilution:	1.0	Leach Batch:	280-92117	Initial Weight/Volume:	10.49 g
Analysis Date:	11/02/2011 2252			Final Weight/Volume:	500 mL
Prep Date:	11/02/2011 1400				
Leach Date:	10/19/2011 2323				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.040	J Q	0.0067	0.19
Copper		3.7		0.034	2.4
Lead		14		0.0087	0.095
Nickel		2.6		0.012	0.33
Zinc		13		0.15	2.4

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG19 IS017**

Lab Sample ID:	280-21683-3	Date Sampled:	10/13/2011 1653
Client Matrix:	Solid	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94043	Lab File ID:	022SMPL.D
Dilution:	1.0	Leach Batch:	280-92117	Initial Weight/Volume:	10.57 g
Analysis Date:	11/02/2011 2255			Final Weight/Volume:	500 mL
Prep Date:	11/02/2011 1400				
Leach Date:	10/19/2011 2323				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.034	J Q	0.0066	0.19
Copper		3.4		0.034	2.4
Lead		12		0.0086	0.095
Nickel		2.5		0.012	0.33
Zinc		12		0.15	2.4

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG19 IS018**

Lab Sample ID: 280-21683-4 Date Sampled: 10/14/2011 0945
Client Matrix: Solid Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94043	Lab File ID:	023SMPL.D
Dilution:	1.0	Leach Batch:	280-92117	Initial Weight/Volume:	10.25 g
Analysis Date:	11/02/2011 2258			Final Weight/Volume:	500 mL
Prep Date:	11/02/2011 1400				
Leach Date:	10/19/2011 2323				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.043	J Q	0.0068	0.20
Copper		3.9		0.035	2.4
Lead		11		0.0089	0.098
Nickel		2.6		0.012	0.34
Zinc		15		0.15	2.4

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG20 SB090**

Lab Sample ID:	280-21683-5			Date Sampled:	10/13/2011 1555
Client Matrix:	Solid	% Moisture:	18.9	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	043SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/01/2011 2001			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.025	J Q	0.016	0.23
Copper		2.3	J	0.083	2.9
Lead		4.7		0.021	0.12
Nickel		1.8		0.029	0.41

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	056SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	11/03/2011 0032			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		6.5		0.34	2.7

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG20 SB091**

Lab Sample ID:	280-21683-6			Date Sampled:	10/13/2011 1625
Client Matrix:	Solid	% Moisture:	15.0	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	048SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	11/01/2011 2016			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.023	J Q	0.014	0.21
Copper		2.2	J	0.073	2.6
Lead		4.5		0.019	0.10
Nickel		2.9		0.026	0.36

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	060SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	11/03/2011 0044			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		8.0		0.32	2.6

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG22 SB094**

Lab Sample ID:	280-21683-7			Date Sampled:	10/13/2011 1646
Client Matrix:	Solid	% Moisture:	8.3	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	049SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/01/2011 2019			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.022	J Q	0.014	0.20
Copper		2.1	J	0.072	2.5
Lead		4.5		0.019	0.10
Nickel		2.4		0.026	0.36

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	061SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.20 g
Analysis Date:	11/03/2011 0047			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		7.6		0.29	2.3

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG22 SB095**

Lab Sample ID:	280-21683-8			Date Sampled:	10/13/2011 1657
Client Matrix:	Solid	% Moisture:	18.2	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	050SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/01/2011 2022			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.020	J Q	0.016	0.24
Copper		2.2	J	0.084	2.9
Lead		4.0		0.021	0.12
Nickel		3.1		0.030	0.41

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	062SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	11/03/2011 0050			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		6.4		0.33	2.6

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG22 SB096**

Lab Sample ID:	280-21683-9			Date Sampled:	10/13/2011 1646
Client Matrix:	Solid	% Moisture:	8.1	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	051SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	11/01/2011 2024			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.023	J Q	0.015	0.21
Copper		2.1	J	0.076	2.7
Lead		4.8		0.019	0.11
Nickel		2.2		0.027	0.37

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	063SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	11/03/2011 0053			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		7.0		0.32	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG27 SB107**

Lab Sample ID: 280-21683-10 Date Sampled: 10/14/2011 1017
Client Matrix: Solid % Moisture: 12.5 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	052SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	11/01/2011 2027			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.023	J Q	0.016	0.23
Copper		1.2	J	0.081	2.9
Lead		3.8		0.021	0.11
Nickel		2.7		0.029	0.40

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	064SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	11/03/2011 0056			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		6.1		0.32	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG27 SB106**

Lab Sample ID:	280-21683-11		Date Sampled: 10/14/2011 1009
Client Matrix:	Solid	% Moisture: 18.1	Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	053SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	11/01/2011 2030			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.025	J Q	0.015	0.22
Copper		1.5	J	0.077	2.7
Lead		6.0		0.020	0.11
Nickel		1.4		0.027	0.38

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	065SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/03/2011 0059			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		5.6		0.35	2.8

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG25 SB102**

Lab Sample ID:	280-21683-12			Date Sampled:	10/14/2011 1029
Client Matrix:	Solid	% Moisture:	9.4	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	054SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	11/01/2011 2033			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.031	J Q	0.014	0.20
Copper		3.3		0.071	2.5
Lead		5.4		0.018	0.099
Nickel		2.9		0.025	0.35

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	066SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	11/03/2011 0102			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		8.0		0.35	2.7

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG23 SB099**

Lab Sample ID:	280-21683-13			Date Sampled:	10/14/2011 0858
Client Matrix:	Solid	% Moisture:	6.5	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	055SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	11/01/2011 2036			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.020	J Q	0.015	0.21
Copper		1.9	J	0.076	2.7
Lead		3.7		0.019	0.11
Nickel		2.3		0.027	0.37

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	070SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	11/03/2011 0113			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		17		0.30	2.4

Analytical Data

Client: UXB International, Inc.

Job Number: 280-21683-1

Client Sample ID: **MG25 SB103**

Lab Sample ID:	280-21683-14			Date Sampled:	10/14/2011 1033
Client Matrix:	Solid	% Moisture:	14.7	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	059SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	11/01/2011 2048			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.023	J Q	0.014	0.20
Copper		2.0	J	0.072	2.5
Lead		4.3		0.018	0.10
Nickel		1.9		0.026	0.35

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	071SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/03/2011 0116			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		6.2		0.34	2.7

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG23 SB098**

Lab Sample ID:	280-21683-15			Date Sampled:	10/14/2011 0845
Client Matrix:	Solid	% Moisture:	4.7	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	060SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/01/2011 2051			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.023	J Q	0.014	0.20
Copper		2.3	J	0.072	2.5
Lead		4.7		0.019	0.10
Nickel		2.5		0.026	0.36

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	072SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/03/2011 0119			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		7.2		0.32	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG21 SB093**

Lab Sample ID:	280-21683-16			Date Sampled:	10/14/2011 0911
Client Matrix:	Solid	% Moisture:	4.8	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	061SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	11/01/2011 2054			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.022	J Q	0.015	0.21
Copper		2.5	J	0.074	2.6
Lead		2.9		0.019	0.10
Nickel		1.9		0.026	0.36

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	073SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/03/2011 0122			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		6.3		0.31	2.5

Client Sample ID: **MG24 SB100**

Lab Sample ID:	280-21683-17			Date Sampled:	10/14/2011 0927
Client Matrix:	Solid	% Moisture:	3.8	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	062SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	11/01/2011 2056			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.026	J Q	0.013	0.19
Copper		3.2		0.067	2.3
Lead		5.8		0.017	0.094
Nickel		3.0		0.024	0.33

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	074SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/03/2011 0125			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		11		0.32	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG21 SB092**

Lab Sample ID:	280-21683-18			Date Sampled:	10/14/2011 0905
Client Matrix:	Solid	% Moisture:	6.3	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	063SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/01/2011 2059			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.023	J Q	0.015	0.21
Copper		2.4	J	0.074	2.6
Lead		4.1		0.019	0.10
Nickel		2.2		0.026	0.36

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	075SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/03/2011 0128			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		8.3		0.32	2.6

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG35 SB123**

Lab Sample ID: 280-21683-19 Date Sampled: 10/14/2011 1029
Client Matrix: Solid % Moisture: 11.5 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	064SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/01/2011 2102			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.026	J Q	0.015	0.22
Copper		3.8		0.076	2.7
Lead		6.4		0.020	0.11
Nickel		3.4		0.027	0.38

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	076SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	11/03/2011 0131			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		10		0.35	2.8

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG26 SB105**

Lab Sample ID: 280-21683-20 Date Sampled: 10/14/2011 0952

Client Matrix: Solid % Moisture: 11.7 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91954	Lab File ID:	065SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/01/2011 2105			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.024	J Q	0.015	0.22
Copper		1.4	J	0.077	2.7
Lead		3.8		0.020	0.11
Nickel		3.1		0.027	0.38

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94294	Lab File ID:	077SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	11/03/2011 0134			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Zinc		6.6		0.35	2.8

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG24 SB101**

Lab Sample ID:	280-21683-21			Date Sampled:	10/14/2011 0933
Client Matrix:	Solid	% Moisture:	5.3	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	071AREF.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/01/2011 2123			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.018	Q J	0.014	0.20
Copper		2.2	J	0.070	2.5
Lead		3.3		0.018	0.099
Nickel		3.4		0.025	0.35
Zinc		9.2	J	0.31	2.5

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID:	**MG35 SB124**		
Lab Sample ID:	280-21683-22		Date Sampled: 10/14/2011 1130
Client Matrix:	Solid	% Moisture: 11.3	Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	076SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	11/01/2011 2137			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.014	J Q	0.013	0.19
Copper		2.4		0.068	2.4
Lead		3.5		0.017	0.096
Nickel		3.8		0.024	0.33
Zinc		9.1		0.30	2.4

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG35 SB125**

Lab Sample ID:	280-21683-23			Date Sampled:	10/14/2011 1130
Client Matrix:	Solid	% Moisture:	11.5	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	077SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	11/01/2011 2140			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.045	U Q	0.016	0.22
Copper		2.8		0.080	2.8
Lead		4.0		0.020	0.11
Nickel		3.8		0.028	0.39
Zinc		9.7		0.35	2.8

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG36 SB126**

Lab Sample ID: 280-21683-24 Date Sampled: 10/14/2011 1146
Client Matrix: Solid % Moisture: 10.1 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	082SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	11/01/2011 2154			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.014	J Q	0.014	0.20
Copper		4.0		0.071	2.5
Lead		4.1		0.018	0.10
Nickel		4.4		0.025	0.35
Zinc		14		0.32	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG36 SB127**

Lab Sample ID:	280-21683-25			Date Sampled:	10/14/2011 1156
Client Matrix:	Solid	% Moisture:	12.8	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	083SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	11/01/2011 2157			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.045	U Q	0.016	0.23
Copper		2.2	J	0.081	2.8
Lead		3.8		0.021	0.11
Nickel		2.8		0.029	0.40
Zinc		8.5		0.36	2.8

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG32 SB115**

Lab Sample ID: 280-21683-26 Date Sampled: 10/14/2011 1410
Client Matrix: Solid % Moisture: 14.0 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	084SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/01/2011 2200			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.044	U Q	0.015	0.22
Copper		1.8	J	0.079	2.8
Lead		16		0.020	0.11
Nickel		2.2		0.028	0.39
Zinc		7.8		0.35	2.8

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG32 SB116**

Lab Sample ID:	280-21683-27			Date Sampled:	10/14/2011 1420
Client Matrix:	Solid	% Moisture:	17.5	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	085SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	11/01/2011 2203			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		1.7	J	0.075	2.6
Lead		4.4		0.019	0.11
Nickel		3.5		0.027	0.37
Zinc		9.5		0.33	2.6

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG33 SB117**

Lab Sample ID:	280-21683-28			Date Sampled:	10/15/2011 0841
Client Matrix:	Solid	% Moisture:	14.8	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	086SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/01/2011 2206			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.015	J Q	0.015	0.22
Copper		3.6		0.078	2.7
Lead		5.6		0.020	0.11
Nickel		3.5		0.028	0.38
Zinc		12		0.35	2.7

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG33 SB119**

Lab Sample ID:	280-21683-29			Date Sampled:	10/15/2011 0841
Client Matrix:	Solid	% Moisture:	13.1	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	087SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	11/01/2011 2209			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.014	J Q	0.014	0.20
Copper		3.7		0.072	2.5
Lead		6.0		0.019	0.10
Nickel		4.8		0.026	0.36
Zinc		12		0.32	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG33 SB118**

Lab Sample ID:	280-21683-30			Date Sampled:	10/15/2011 0853
Client Matrix:	Solid	% Moisture:	10.4	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	088SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	11/01/2011 2212			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.039	U Q	0.014	0.20
Copper		2.1	J	0.070	2.5
Lead		4.0		0.018	0.099
Nickel		3.7		0.025	0.35
Zinc		12		0.31	2.5

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG34 SB121**

Lab Sample ID: 280-21683-31
Client Matrix: Solid
% Moisture: 8.5
Date Sampled: 10/15/2011 0906
Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	089SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/01/2011 2215			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		4.3		0.075	2.7
Lead		4.3		0.019	0.11
Nickel		6.2		0.027	0.37
Zinc		17		0.34	2.7

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG34 SB122**

Lab Sample ID:	280-21683-32			Date Sampled:	10/15/2011 0915
Client Matrix:	Solid	% Moisture:	7.2	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	090SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	11/01/2011 2218			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.015	J Q	0.013	0.19
Copper		4.3		0.067	2.3
Lead		5.7		0.017	0.094
Nickel		6.6		0.024	0.33
Zinc		13		0.30	2.3

Analytical Data

Client: UXB International, Inc.

Job Number: 280-21683-1

Client Sample ID: **MG31 SB113**

Lab Sample ID:	280-21683-33			Date Sampled:	10/15/2011 0926
Client Matrix:	Solid	% Moisture:	9.7	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	094SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	11/01/2011 2229			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.040	U Q	0.014	0.20
Copper		3.5		0.070	2.5
Lead		3.7		0.018	0.099
Nickel		3.5		0.025	0.35
Zinc		10		0.31	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG31 SB114**

Lab Sample ID:	280-21683-34			Date Sampled:	10/15/2011 0933
Client Matrix:	Solid	% Moisture:	8.5	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	095SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/01/2011 2232			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		3.3		0.075	2.7
Lead		4.1		0.019	0.11
Nickel		4.8		0.027	0.37
Zinc		12		0.34	2.7

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG30 SB111**

Lab Sample ID:	280-21683-35			Date Sampled:	10/15/2011 0945
Client Matrix:	Solid	% Moisture:	10.7	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	096SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	11/01/2011 2235			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.015	J Q	0.014	0.20
Copper		4.0		0.070	2.5
Lead		5.4		0.018	0.099
Nickel		3.3		0.025	0.35
Zinc		10		0.31	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG30 SB112**

Lab Sample ID:	280-21683-36			Date Sampled:	10/15/2011 0951
Client Matrix:	Solid	% Moisture:	7.6	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	097SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/01/2011 2238			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.014	J Q	0.014	0.21
Copper		4.3		0.073	2.6
Lead		4.5		0.019	0.10
Nickel		4.7		0.026	0.36
Zinc		13		0.33	2.6

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG29 SB109**

Lab Sample ID: 280-21683-37 Date Sampled: 10/15/2011 1000
Client Matrix: Solid % Moisture: 10.4 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	098SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/01/2011 2241			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.018	J Q	0.014	0.20
Copper		3.6		0.072	2.5
Lead		5.4		0.018	0.10
Nickel		2.9		0.026	0.36
Zinc		13		0.32	2.5

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG29 SB110**

Lab Sample ID:	280-21683-38			Date Sampled:	10/15/2011 1005
Client Matrix:	Solid	% Moisture:	11.9	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	099SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	11/01/2011 2244			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.014	J Q	0.014	0.20
Copper		2.5		0.070	2.4
Lead		4.0		0.018	0.098
Nickel		3.3		0.025	0.34
Zinc		9.0		0.31	2.4

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG06 SB062**

Lab Sample ID: 280-21683-39
Client Matrix: Solid
% Moisture: 11.9
Date Sampled: 10/15/2011 1311
Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	100SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	11/01/2011 2247			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.015	J Q	0.013	0.19
Copper		2.1	J	0.068	2.4
Lead		7.0		0.017	0.095
Nickel		2.5		0.024	0.33
Zinc		9.3		0.30	2.4

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG06 SB063**

Lab Sample ID:	280-21683-40			Date Sampled:	10/15/2011 1316
Client Matrix:	Solid	% Moisture:	8.8	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91956	Lab File ID:	101SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/01/2011 2250			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.015	J Q	0.015	0.21
Copper		3.3		0.075	2.6
Lead		4.6		0.019	0.11
Nickel		3.2		0.027	0.37
Zinc		12		0.33	2.6

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: MG06 SB064

Lab Sample ID: 280-21683-41 Date Sampled: 10/15/2011 1316
Client Matrix: Solid % Moisture: 8.5 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	107AREF.D
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/01/2011 2307			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.024	Q J	0.014	0.20
Copper		3.2		0.071	2.5
Lead		4.9		0.018	0.099
Nickel		3.0		0.025	0.35
Zinc		10		0.31	2.5

Analytical Data

Client: UXB International, Inc.   Job Number: 280-21683-1

Client Sample ID: **MG05 SB060**

Lab Sample ID:	280-21683-42			Date Sampled:	10/15/2011 1328
Client Matrix:	Solid	% Moisture:	12.0	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	112SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/01/2011 2322			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.022	J Q	0.015	0.21
Copper		3.1		0.076	2.7
Lead		6.0		0.020	0.11
Nickel		2.3		0.027	0.38
Zinc		14		0.34	2.7

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG05 SB061**

Lab Sample ID:	280-21683-43			Date Sampled:	10/15/2011 1330
Client Matrix:	Solid	% Moisture:	5.5	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	113SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/01/2011 2325			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.016	J Q	0.014	0.20
Copper		2.6		0.072	2.5
Lead		2.6		0.018	0.10
Nickel		1.8		0.026	0.35
Zinc		7.1		0.32	2.5

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG04 SB058**

Lab Sample ID:	280-21683-44			Date Sampled:	10/15/2011 1339
Client Matrix:	Solid	% Moisture:	10.2	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	117SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/01/2011 2336			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.017	J Q	0.013	0.19
Copper		1.6	J	0.068	2.4
Lead		5.2		0.017	0.095
Nickel		1.2		0.024	0.33
Zinc		5.0		0.30	2.4

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID:	**MG04 SB059**				
Lab Sample ID:	280-21683-45			Date Sampled:	10/15/2011 1341
Client Matrix:	Solid	% Moisture:	5.1	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	118SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.20 g
Analysis Date:	11/01/2011 2339			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.013	J Q	0.012	0.18
Copper		3.1		0.062	2.2
Lead		3.0		0.016	0.088
Nickel		3.1		0.022	0.31
Zinc		10		0.28	2.2

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG03 SB056**

Lab Sample ID: 280-21683-46 Date Sampled: 10/15/2011 1351
Client Matrix: Solid % Moisture: 10.0 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	119SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	11/01/2011 2342			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.015	J Q	0.013	0.19
Copper		2.9		0.068	2.4
Lead		6.8		0.017	0.096
Nickel		2.5		0.024	0.34
Zinc		9.5		0.30	2.4

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID:	**MG03 SB057**				
Lab Sample ID:	280-21683-47			Date Sampled:	10/15/2011 1353
Client Matrix:	Solid	% Moisture:	4.8	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	120SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/01/2011 2345			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.040	U Q	0.014	0.20
Copper		3.2		0.072	2.5
Lead		3.0		0.018	0.10
Nickel		2.8		0.026	0.35
Zinc		9.5		0.32	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG02 SB054**

Lab Sample ID: 280-21683-48 Date Sampled: 10/15/2011 1404
Client Matrix: Solid % Moisture: 7.5 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	121SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/01/2011 2348			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.041	U Q	0.014	0.21
Copper		2.5	J	0.073	2.6
Lead		3.8		0.019	0.10
Nickel		2.4		0.026	0.36
Zinc		8.6		0.33	2.6

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG02 SB055**

Lab Sample ID:	280-21683-49			Date Sampled:	10/15/2011 1406
Client Matrix:	Solid	% Moisture:	5.5	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	122SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	11/01/2011 2351			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.038	U Q	0.013	0.19
Copper		4.1		0.068	2.4
Lead		2.5		0.017	0.095
Nickel		3.9		0.024	0.33
Zinc		18		0.30	2.4

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG15 SB081**

Lab Sample ID:	280-21683-50			Date Sampled:	10/15/2011 1419
Client Matrix:	Solid	% Moisture:	6.3	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	123SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	11/01/2011 2354			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.013	J Q	0.013	0.18
Copper		2.5		0.064	2.2
Lead		7.9		0.016	0.090
Nickel		2.2		0.023	0.31
Zinc		9.1		0.28	2.2

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: MG15 SB082

Lab Sample ID:	280-21683-51			Date Sampled:	10/15/2011 1422
Client Matrix:	Solid	% Moisture:	10.8	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	124SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/01/2011 2357			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.015	J Q	0.015	0.21
Copper		2.2	J	0.075	2.6
Lead		9.8		0.019	0.10
Nickel		2.3		0.027	0.37
Zinc		7.1		0.33	2.6

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG12 SB073**

Lab Sample ID:	280-21683-52			Date Sampled:	10/15/2011 1440
Client Matrix:	Solid	% Moisture:	8.6	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	125SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.20 g
Analysis Date:	11/02/2011 0000			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.017	J Q	0.013	0.18
Copper		1.8	J	0.065	2.3
Lead		8.4		0.017	0.091
Nickel		2.3		0.023	0.32
Zinc		8.1		0.29	2.3

Client: UXB International, Inc.

Job Number: 280-21683-1

Client Sample ID: **MG12 SB075**

Lab Sample ID:	280-21683-53			Date Sampled:	10/15/2011 1440
Client Matrix:	Solid	% Moisture:	7.3	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	129SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/02/2011 0011			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.017	J Q	0.014	0.20
Copper		1.7	J	0.070	2.5
Lead		7.9		0.018	0.098
Nickel		2.0		0.025	0.34
Zinc		7.9		0.31	2.5

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG12 SB074**

Lab Sample ID:	280-21683-54			Date Sampled:	10/15/2011 1443
Client Matrix:	Solid	% Moisture:	7.0	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	130SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/02/2011 0014			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		2.1	J	0.074	2.6
Lead		3.8		0.019	0.10
Nickel		3.9		0.026	0.37
Zinc		10		0.33	2.6

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG11 SB071**

Lab Sample ID:	280-21683-55			Date Sampled:	10/15/2011 1455
Client Matrix:	Solid	% Moisture:	9.2	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	131SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	11/02/2011 0017			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.015	J Q	0.014	0.20
Copper		2.6		0.073	2.5
Lead		4.2		0.019	0.10
Nickel		3.0		0.026	0.36
Zinc		11		0.32	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG11 SB072**

Lab Sample ID:	280-21683-56			Date Sampled:	10/15/2011 1457
Client Matrix:	Solid	% Moisture:	8.8	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	132SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	11/02/2011 0020			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.040	U Q	0.014	0.20
Copper		2.0	J	0.072	2.5
Lead		3.7		0.018	0.10
Nickel		3.4		0.025	0.35
Zinc		8.7		0.32	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG14 SB079**

Lab Sample ID:	280-21683-57			Date Sampled:	10/15/2011 1512
Client Matrix:	Solid	% Moisture:	12.3	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	133SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/02/2011 0023			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.015	J Q	0.015	0.22
Copper		2.2	J	0.079	2.8
Lead		7.2		0.020	0.11
Nickel		1.8		0.028	0.39
Zinc		7.4		0.35	2.8

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG14 SB080**

Lab Sample ID:	280-21683-58			Date Sampled:	10/15/2011 1515
Client Matrix:	Solid	% Moisture:	11.5	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	134SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/02/2011 0026			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.043	U Q	0.015	0.22
Copper		2.3	J	0.077	2.7
Lead		5.5		0.020	0.11
Nickel		3.0		0.027	0.38
Zinc		14		0.34	2.7

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG13 SB077**

Lab Sample ID:	280-21683-59			Date Sampled:	10/15/2011 1524
Client Matrix:	Solid	% Moisture:	10.0	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	135SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/02/2011 0029			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.016	J Q	0.015	0.21
Copper		2.8		0.075	2.6
Lead		4.8		0.019	0.10
Nickel		3.0		0.027	0.37
Zinc		11		0.33	2.6

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG13 SB078**

Lab Sample ID:	280-21683-60			Date Sampled:	10/15/2011 1526
Client Matrix:	Solid	% Moisture:	8.8	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91958	Lab File ID:	136SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/02/2011 0032			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		2.7		0.075	2.6
Lead		4.4		0.019	0.11
Nickel		3.0		0.027	0.37
Zinc		9.8		0.33	2.6

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG16 SB083**

Lab Sample ID:	280-21683-61			Date Sampled:	10/15/2011 1537
Client Matrix:	Solid	% Moisture:	12.4	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	142AREF.D
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	11/02/2011 0049			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.025	Q J	0.014	0.20
Copper		2.1	J	0.072	2.5
Lead		8.3		0.019	0.10
Nickel		2.1		0.026	0.36
Zinc		6.2		0.32	2.5

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG16 SB084**

Lab Sample ID:	280-21683-62			Date Sampled:	10/15/2011 1540
Client Matrix:	Solid	% Moisture:	10.6	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	147SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	11/02/2011 0104			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.040	U Q	0.014	0.20
Copper		1.2	J	0.070	2.5
Lead		3.0		0.018	0.099
Nickel		1.6		0.025	0.35
Zinc		4.7		0.31	2.5

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG09 SB069**

Lab Sample ID:	280-21683-63			Date Sampled:	10/15/2011 1601
Client Matrix:	Solid	% Moisture:	8.3	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	151SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/02/2011 0115			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.018	J Q	0.015	0.21
Copper		2.6		0.074	2.6
Lead		4.3		0.019	0.10
Nickel		2.2		0.026	0.36
Zinc		8.0		0.33	2.6

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG09 SB070**

Lab Sample ID:	280-21683-64			Date Sampled:	10/15/2011 1603
Client Matrix:	Solid	% Moisture:	7.1	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	152SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/02/2011 0118			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.040	U Q	0.014	0.20
Copper		2.5		0.072	2.5
Lead		3.6		0.018	0.10
Nickel		2.5		0.025	0.35
Zinc		7.5		0.32	2.5

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG08 SB067**

Lab Sample ID: 280-21683-65 | Date Sampled: 10/15/2011 1614
Client Matrix: Solid | % Moisture: 5.4 | Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	153SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/02/2011 0121			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.019	J Q	0.014	0.20
Copper		5.4		0.070	2.5
Lead		8.1		0.018	0.099
Nickel		4.0		0.025	0.35
Zinc		13		0.31	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG08 SB068**

Lab Sample ID:	280-21683-66			Date Sampled:	10/15/2011 1617
Client Matrix:	Solid	% Moisture:	5.2	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	154SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	11/02/2011 0124			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.014	J Q	0.013	0.18
Copper		3.7		0.065	2.3
Lead		3.0		0.017	0.092
Nickel		3.4		0.023	0.32
Zinc		9.5		0.29	2.3

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG07 SB065**

Lab Sample ID: 280-21683-67 Date Sampled: 10/15/2011 1628
Client Matrix: Solid % Moisture: 8.5 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	155SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/02/2011 0127			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.016	J Q	0.014	0.20
Copper		2.2	J	0.071	2.5
Lead		6.3		0.018	0.099
Nickel		1.7		0.025	0.35
Zinc		6.8		0.31	2.5

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG07 SB066**

Lab Sample ID:	280-21683-68			Date Sampled:	10/15/2011 1629
Client Matrix:	Solid	% Moisture:	4.9	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	156SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	11/02/2011 0130			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.013	J Q	0.013	0.18
Copper		2.5		0.066	2.3
Lead		3.5		0.017	0.092
Nickel		2.5		0.023	0.32
Zinc		7.5		0.29	2.3

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **MG17 SB085**

Lab Sample ID:	280-21683-69			Date Sampled:	10/15/2011 1641
Client Matrix:	Solid	% Moisture:	4.6	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	157SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	11/02/2011 0133			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.013	J Q	0.013	0.18
Copper		2.7		0.065	2.3
Lead		5.1		0.017	0.091
Nickel		3.2		0.023	0.32
Zinc		14		0.29	2.3

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG17 SB086**

Lab Sample ID:	280-21683-70			Date Sampled:	10/15/2011 1643
Client Matrix:	Solid	% Moisture:	5.4	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	158SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/02/2011 0136			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.040	U Q	0.014	0.20
Copper		1.9	J	0.071	2.5
Lead		6.5		0.018	0.10
Nickel		2.7		0.025	0.35
Zinc		7.1		0.32	2.5

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG17 SB087**

Lab Sample ID:	280-21683-71			Date Sampled:	10/15/2011 1643
Client Matrix:	Solid	% Moisture:	5.3	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	162SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/02/2011 0147			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.039	U Q	0.014	0.20
Copper		2.2	J	0.070	2.5
Lead		6.6		0.018	0.099
Nickel		2.9		0.025	0.35
Zinc		8.2		0.31	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG18 SB088**

Lab Sample ID:	280-21683-72			Date Sampled:	10/15/2011 1656
Client Matrix:	Solid	% Moisture:	10.8	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	163SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/02/2011 0150			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.015	J Q	0.015	0.21
Copper		2.4	J	0.075	2.6
Lead		8.5		0.019	0.11
Nickel		3.9		0.027	0.37
Zinc		11		0.33	2.6

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **MG18 SB089**

Lab Sample ID:	280-21683-73			Date Sampled:	10/15/2011 1658
Client Matrix:	Solid	% Moisture:	8.8	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	164SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	11/02/2011 0153			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.043	U Q	0.015	0.22
Copper		1.4	J	0.076	2.7
Lead		3.9		0.020	0.11
Nickel		3.5		0.027	0.38
Zinc		7.8		0.34	2.7

Analytical Data

Client: UXB International, Inc.

Job Number: 280-21683-1

Client Sample ID: **CP01 IS01**

Lab Sample ID:	280-21683-74	Date Sampled:	10/16/2011 1150
Client Matrix:	Solid	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94043	Lab File ID:	024SMPL.D
Dilution:	1.0	Leach Batch:	280-92117	Initial Weight/Volume:	10.31 g
Analysis Date:	11/02/2011 2301			Final Weight/Volume:	500 mL
Prep Date:	11/02/2011 1400				
Leach Date:	10/19/2011 2323				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.057	J Q	0.0068	0.19
Copper		2.7		0.034	2.4
Lead		22		0.0088	0.097
Nickel		1.5		0.012	0.34
Zinc		11		0.15	2.4

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP01 IS02**

Lab Sample ID:	280-21683-75	Date Sampled:	10/16/2011 1321
Client Matrix:	Solid	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94043	Lab File ID:	033SMPL.D
Dilution:	1.0	Leach Batch:	280-92117	Initial Weight/Volume:	10.64 g
Analysis Date:	11/02/2011 2327			Final Weight/Volume:	500 mL
Prep Date:	11/02/2011 1400				
Leach Date:	10/19/2011 2323				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.083	J Q	0.0066	0.19
Copper		2.3		0.033	2.3
Lead		25		0.0086	0.094
Nickel		1.6		0.012	0.33
Zinc		13		0.15	2.3

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP01 IS03**

Lab Sample ID: 280-21683-76 Date Sampled: 10/16/2011 1432
Client Matrix: Solid Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94043	Lab File ID:	028AREF.D
Dilution:	1.0	Leach Batch:	280-92117	Initial Weight/Volume:	10.47 g
Analysis Date:	11/02/2011 2312			Final Weight/Volume:	500 mL
Prep Date:	11/02/2011 1400				
Leach Date:	10/19/2011 2323				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.028	Q J	0.0067	0.19
Copper		2.4		0.034	2.4
Lead		14		0.0087	0.096
Nickel		1.5		0.012	0.33
Zinc		10		0.15	2.4

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP10 SB014**

Lab Sample ID: 280-21683-77 Date Sampled: 10/16/2011 1120
Client Matrix: Solid % Moisture: 12.8 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	165SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	11/02/2011 0156			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.020	J Q	0.014	0.20
Copper		1.4	J	0.071	2.5
Lead		7.5		0.018	0.10
Nickel		1.8		0.025	0.35
Zinc		9.7		0.32	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP10 SB015**

Lab Sample ID:	280-21683-78			Date Sampled:	10/16/2011 1124
Client Matrix:	Solid	% Moisture:	11.7	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	166SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/02/2011 0159			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.016	J Q	0.015	0.22
Copper		1.3	J	0.077	2.7
Lead		4.9		0.020	0.11
Nickel		2.2		0.027	0.38
Zinc		10		0.34	2.7

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP09 SB012**

Lab Sample ID:	280-21683-79			Date Sampled:	10/16/2011 1140
Client Matrix:	Solid	% Moisture:	14.2	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	167SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/02/2011 0202			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.040	U Q	0.014	0.20
Copper		0.98	J	0.071	2.5
Lead		14		0.018	0.10
Nickel		1.3		0.025	0.35
Zinc		7.3		0.31	2.5

Analytical Data

Client: UXB International, Inc.   Job Number: 280-21683-1

Client Sample ID: **CP09 SB013**

Lab Sample ID:	280-21683-80			Date Sampled:	10/16/2011 1142
Client Matrix:	Solid	% Moisture:	12.0	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91960	Lab File ID:	168SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/02/2011 0205			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.039	U Q	0.014	0.19
Copper		0.85	J	0.069	2.4
Lead		4.7		0.018	0.097
Nickel		1.8		0.025	0.34
Zinc		7.5		0.31	2.4

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **CP08 SB009**

Lab Sample ID:	280-21683-81			Date Sampled:	10/16/2011 1155
Client Matrix:	Solid	% Moisture:	12.6	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	083AREF.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/03/2011 0151			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.018	Q J	0.014	0.20
Copper		1.2	J	0.069	2.4
Lead		7.8		0.018	0.098
Nickel		1.7		0.025	0.34
Zinc		8.1		0.31	2.4

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP08 SB010**

Lab Sample ID:	280-21683-82			Date Sampled:	10/16/2011 1159
Client Matrix:	Solid	% Moisture:	10.6	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	088SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	11/03/2011 0205			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.015	J Q	0.013	0.19
Copper		1.4	J	0.067	2.3
Lead		7.0		0.017	0.094
Nickel		2.2		0.024	0.33
Zinc		11		0.30	2.3

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: CP08 SB011

Lab Sample ID:	280-21683-83			Date Sampled:	10/16/2011 1159
Client Matrix:	Solid	% Moisture:	11.0	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	092SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/03/2011 0218			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.044	U Q	0.015	0.22
Copper		1.4	J	0.078	2.7
Lead		6.8		0.020	0.11
Nickel		2.1		0.028	0.38
Zinc		11		0.34	2.7

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP11 SB16A**

Lab Sample ID:	280-21683-84			Date Sampled:	10/16/2011 1241
Client Matrix:	Solid	% Moisture:	12.1	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	093SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	11/03/2011 0221			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.39	Q	0.016	0.23
Copper		2.1	J	0.080	2.8
Lead		82		0.020	0.11
Nickel		2.5		0.028	0.39
Zinc		19		0.36	2.8

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP11 SB16B**

Lab Sample ID:	280-21683-85			Date Sampled:	10/16/2011 1243
Client Matrix:	Solid	% Moisture:	9.4	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	094SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	11/03/2011 0224			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.072	J Q	0.014	0.20
Copper		1.3	J	0.072	2.5
Lead		17		0.018	0.10
Nickel		2.8		0.026	0.35
Zinc		11		0.32	2.5

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP07 SB007**

Lab Sample ID:	280-21683-86			Date Sampled:	10/16/2011 1300
Client Matrix:	Solid	% Moisture:	9.9	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	095SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/03/2011 0227			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		1.1	J	0.074	2.6
Lead		6.5		0.019	0.10
Nickel		1.4		0.027	0.37
Zinc		7.8		0.33	2.6

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID:	**CP07 SB008**				
Lab Sample ID:	280-21683-87			Date Sampled:	10/16/2011 1303
Client Matrix:	Solid	% Moisture:	8.8	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	096SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/03/2011 0230			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		0.78	J	0.075	2.6
Lead		2.9		0.019	0.11
Nickel		1.6		0.027	0.37
Zinc		7.3		0.33	2.6

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP04 SB001**

Lab Sample ID: 280-21683-88 Date Sampled: 10/16/2011 1320
Client Matrix: Solid % Moisture: 8.8 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	097SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	11/03/2011 0233			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.041	U Q	0.014	0.20
Copper		1.1	J	0.072	2.5
Lead		6.1		0.018	0.10
Nickel		0.83		0.026	0.36
Zinc		5.1		0.32	2.5

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP04 SB002**

Lab Sample ID: 280-21683-89 Date Sampled: 10/16/2011 1325
Client Matrix: Solid % Moisture: 6.9 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	098SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.20 g
Analysis Date:	11/03/2011 0236			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.036	U Q	0.013	0.18
Copper		0.66	J	0.064	2.2
Lead		2.5		0.016	0.090
Nickel		0.97		0.023	0.31
Zinc		4.4		0.28	2.2

Client: UXB International, Inc.   Job Number: 280-21683-1

Client Sample ID: **CP06 SB005**

Lab Sample ID:	280-21683-90			Date Sampled:	10/16/2011 1340
Client Matrix:	Solid	% Moisture:	9.1	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	102SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/03/2011 0247			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		1.2	J	0.075	2.6
Lead		4.5		0.019	0.11
Nickel		1.0		0.027	0.37
Zinc		5.8		0.33	2.6

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **CP06 SB006**

Lab Sample ID: 280-21683-91 | Date Sampled: 10/16/2011 1343
Client Matrix: Solid | % Moisture: 7.5 | Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	103SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/03/2011 0250			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		0.75	J	0.074	2.6
Lead		2.5		0.019	0.10
Nickel		1.3		0.026	0.36
Zinc		5.9		0.33	2.6

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21683-1

Client Sample ID: **CP05 SB003**

Lab Sample ID:	280-21683-92			Date Sampled:	10/16/2011 1401
Client Matrix:	Solid	% Moisture:	8.0	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	104SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/03/2011 0253			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.041	U Q	0.014	0.21
Copper		1.1	J	0.073	2.6
Lead		5.2		0.019	0.10
Nickel		0.84		0.026	0.36
Zinc		7.0		0.32	2.6

Analytical Data

Client: UXB International, Inc.   Job Number: 280-21683-1

Client Sample ID: **CP05 SB004**

Lab Sample ID:	280-21683-93			Date Sampled:	10/16/2011 1404
Client Matrix:	Solid	% Moisture:	6.9	Date Received:	10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	105SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	11/03/2011 0256			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		0.85	J	0.075	2.6
Lead		2.4		0.019	0.11
Nickel		0.94		0.027	0.37
Zinc		5.7		0.33	2.6

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP12 SB017**

Lab Sample ID: 280-21683-94 Date Sampled: 10/16/2011 1522
Client Matrix: Solid % Moisture: 11.0 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	106SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.20 g
Analysis Date:	11/03/2011 0259			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.037	U Q	0.013	0.19
Copper		1.2	J	0.067	2.3
Lead		21		0.017	0.094
Nickel		1.6		0.024	0.33
Zinc		6.0		0.30	2.3

Client: UXB International, Inc. Job Number: 280-21683-1

Client Sample ID: **CP12 SB018**

Lab Sample ID: 280-21683-95 Date Sampled: 10/16/2011 1525
Client Matrix: Solid % Moisture: 9.6 Date Received: 10/18/2011 0900

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-91961	Lab File ID:	107SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/03/2011 0302			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.038	U Q	0.013	0.19
Copper		1.7	J	0.067	2.4
Lead		6.6		0.017	0.095
Nickel		4.4		0.024	0.33
Zinc		9.9		0.30	2.4

General Chemistry

Client Sample ID: **MG26 SB104**

Lab Sample ID: 280-21683-1 Date Sampled: 10/14/2011 0946
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21683-1

General Chemistry

Client Sample ID: **MG20 SB090**

Lab Sample ID: 280-21683-5 Date Sampled: 10/13/2011 1555
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	19		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	81		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG20 SB091**

Lab Sample ID: 280-21683-6 Date Sampled: 10/13/2011 1625
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	15		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	85		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG22 SB094**

Lab Sample ID: 280-21683-7 Date Sampled: 10/13/2011 1646
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	92		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG22 SB095**

Lab Sample ID: 280-21683-8 Date Sampled: 10/13/2011 1657

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	18		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	82		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG22 SB096**

Lab Sample ID: 280-21683-9 Date Sampled: 10/13/2011 1646
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.1		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	92		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG27 SB107**

Lab Sample ID: 280-21683-10 Date Sampled: 10/14/2011 1017
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21683-1

General Chemistry

Client Sample ID: **MG27 SB106**

Lab Sample ID: 280-21683-11 Date Sampled: 10/14/2011 1009
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	18		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	82		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG25 SB102**

Lab Sample ID: 280-21683-12 Date Sampled: 10/14/2011 1029
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	9.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG23 SB099**

Lab Sample ID: 280-21683-13 Date Sampled: 10/14/2011 0858

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	6.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906		Analysis Date: 10/19/2011 1222					DryWt Corrected: N
Percent Solids	94		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906		Analysis Date: 10/19/2011 1222					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG25 SB103**

Lab Sample ID: 280-21683-14 Date Sampled: 10/14/2011 1033

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	15		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	85		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG23 SB098**

Lab Sample ID: 280-21683-15 Date Sampled: 10/14/2011 0845

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	4.7		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	95		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: MG21 SB093

Lab Sample ID: 280-21683-16 Date Sampled: 10/14/2011 0911
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	4.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	95		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG24 SB100**

Lab Sample ID: 280-21683-17 Date Sampled: 10/14/2011 0927
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	3.8		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N
Percent Solids	96		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG21 SB092**

Lab Sample ID: 280-21683-18

Client Matrix: Solid

Date Sampled: 10/14/2011 0905

Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	6.3		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N
Percent Solids	94		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG35 SB123**

Lab Sample ID: 280-21683-19 Date Sampled: 10/14/2011 1029
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG26 SB105**

Lab Sample ID: 280-21683-20 Date Sampled: 10/14/2011 0952

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG24 SB101**

Lab Sample ID: 280-21683-21 Date Sampled: 10/14/2011 0933
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	5.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	95		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG35 SB124**

Lab Sample ID: 280-21683-22 Date Sampled: 10/14/2011 1130
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21683-1

General Chemistry

Client Sample ID: **MG35 SB125**

Lab Sample ID: 280-21683-23 Date Sampled: 10/14/2011 1130
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG36 SB126**

Lab Sample ID: 280-21683-24 Date Sampled: 10/14/2011 1146
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	10		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	90		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG36 SB127**

Lab Sample ID: 280-21683-25 Date Sampled: 10/14/2011 1156
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG32 SB115**

Lab Sample ID: 280-21683-26 Date Sampled: 10/14/2011 1410
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG32 SB116**

Lab Sample ID: 280-21683-27
Client Matrix: Solid

Date Sampled: 10/14/2011 1420
Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	18		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	82		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG33 SB117**

Lab Sample ID: 280-21683-28 Date Sampled: 10/15/2011 0841
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	15		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	85		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG33 SB119**

Lab Sample ID: 280-21683-29 Date Sampled: 10/15/2011 0841
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG33 SB118**

Lab Sample ID: 280-21683-30 Date Sampled: 10/15/2011 0853
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	10		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	90		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG34 SB121**

Lab Sample ID: 280-21683-31 Date Sampled: 10/15/2011 0906
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.5		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG34 SB122**

Lab Sample ID: 280-21683-32 Date Sampled: 10/15/2011 0915
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	7.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	93		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG31 SB113**

Lab Sample ID: 280-21683-33 Date Sampled: 10/15/2011 0926

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	9.7		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	90		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG31 SB114**

Lab Sample ID: 280-21683-34 Date Sampled: 10/15/2011 0933

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.5		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N
Percent Solids	92		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG30 SB111**

Lab Sample ID: 280-21683-35 Date Sampled: 10/15/2011 0945
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21683-1

General Chemistry

Client Sample ID: **MG30 SB112**

Lab Sample ID: 280-21683-36 Date Sampled: 10/15/2011 0951
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	7.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	92		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG29 SB109**

Lab Sample ID: 280-21683-37 Date Sampled: 10/15/2011 1000
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	10		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	90		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG29 SB110**

Lab Sample ID: 280-21683-38 Date Sampled: 10/15/2011 1005
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906		Analysis Date: 10/19/2011 1222					DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906		Analysis Date: 10/19/2011 1222					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG06 SB062**

Lab Sample ID: 280-21683-39 Date Sampled: 10/15/2011 1311
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG06 SB063**

Lab Sample ID: 280-21683-40 Date Sampled: 10/15/2011 1316

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG06 SB064**

Lab Sample ID: 280-21683-41 Date Sampled: 10/15/2011 1316

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.5		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG05 SB060**

Lab Sample ID: 280-21683-42 Date Sampled: 10/15/2011 1328
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

General Chemistry

Client Sample ID: **MG05 SB061**

Lab Sample ID: 280-21683-43 Date Sampled: 10/15/2011 1330
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	5.5		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N
Percent Solids	94		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG04 SB058**

Lab Sample ID: 280-21683-44 Date Sampled: 10/15/2011 1339
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	10		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	90		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG04 SB059**

Lab Sample ID: 280-21683-45 Date Sampled: 10/15/2011 1341
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	5.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	95		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: MG03 SB056

Lab Sample ID: 280-21683-46 Date Sampled: 10/15/2011 1351

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	10		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	90		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG03 SB057**

Lab Sample ID: 280-21683-47 Date Sampled: 10/15/2011 1353
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	4.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	95		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG02 SB054**

Lab Sample ID: 280-21683-48 Date Sampled: 10/15/2011 1404
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	7.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	92		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG02 SB055**

Lab Sample ID: 280-21683-49 Date Sampled: 10/15/2011 1406

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	5.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906		Analysis Date: 10/19/2011 1222					DryWt Corrected: N
Percent Solids	94		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906		Analysis Date: 10/19/2011 1222					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG15 SB081**

Lab Sample ID: 280-21683-50 Date Sampled: 10/15/2011 1419
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	6.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	94		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG15 SB082**

Lab Sample ID: 280-21683-51 Date Sampled: 10/15/2011 1422

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG12 SB073**

Lab Sample ID: 280-21683-52 Date Sampled: 10/15/2011 1440

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG12 SB075**

Lab Sample ID: 280-21683-53 Date Sampled: 10/15/2011 1440
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	7.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	93		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG12 SB074**

Lab Sample ID: 280-21683-54 Date Sampled: 10/15/2011 1443
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	7.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	93		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG11 SB071**

Lab Sample ID: 280-21683-55 Date Sampled: 10/15/2011 1455
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	9.2		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG11 SB072**

Lab Sample ID: 280-21683-56 Date Sampled: 10/15/2011 1457
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG14 SB079**

Lab Sample ID: 280-21683-57 Date Sampled: 10/15/2011 1512

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG14 SB080**

Lab Sample ID: 280-21683-58 Date Sampled: 10/15/2011 1515
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG13 SB077**

Lab Sample ID: 280-21683-59 Date Sampled: 10/15/2011 1524

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	10		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	90		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

Analytical Data

Client: UXB International, Inc. Job Number: 280-21683-1

General Chemistry

Client Sample ID: **MG13 SB078**

Lab Sample ID: 280-21683-60 Date Sampled: 10/15/2011 1526
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG16 SB083**

Lab Sample ID: 280-21683-61 Date Sampled: 10/15/2011 1537
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG16 SB084**

Lab Sample ID: 280-21683-62 Date Sampled: 10/15/2011 1540
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133		Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: MG09 SB069

Lab Sample ID: 280-21683-63 Date Sampled: 10/15/2011 1601
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	92		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG09 SB070**

Lab Sample ID: 280-21683-64 Date Sampled: 10/15/2011 1603

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	7.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906		Analysis Date: 10/19/2011 1222					DryWt Corrected: N
Percent Solids	93		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906		Analysis Date: 10/19/2011 1222					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG08 SB067**

Lab Sample ID: 280-21683-65 Date Sampled: 10/15/2011 1614
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	5.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	95		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG08 SB068**

Lab Sample ID: 280-21683-66 Date Sampled: 10/15/2011 1617
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	5.2		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	95		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **MG07 SB065**

Lab Sample ID: 280-21683-67 Date Sampled: 10/15/2011 1628
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	92		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

Analytical Data

Client: UXB International, Inc.

Job Number: 280-21683-1

General Chemistry

Client Sample ID: **MG07 SB066**

Lab Sample ID: 280-21683-68
Client Matrix: Solid

Date Sampled: 10/15/2011 1629
Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	4.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	95		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21683-1

General Chemistry

Client Sample ID: **MG17 SB085**

Lab Sample ID: 280-21683-69 Date Sampled: 10/15/2011 1641
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	4.6		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	95		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG17 SB086**

Lab Sample ID: 280-21683-70 Date Sampled: 10/15/2011 1643
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	5.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	95		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21683-1

General Chemistry

Client Sample ID: **MG17 SB087**

Lab Sample ID: 280-21683-71 Date Sampled: 10/15/2011 1643
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	5.3		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	95		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21683-1

General Chemistry

Client Sample ID: **MG18 SB088**

Lab Sample ID: 280-21683-72 Date Sampled: 10/15/2011 1656
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG18 SB089**

Lab Sample ID: 280-21683-73 Date Sampled: 10/15/2011 1658
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906		Analysis Date: 10/19/2011 1222					DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906		Analysis Date: 10/19/2011 1222					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP10 SB014**

Lab Sample ID: 280-21683-77 Date Sampled: 10/16/2011 1120

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP10 SB015**

Lab Sample ID: 280-21683-78
Client Matrix: Solid

Date Sampled: 10/16/2011 1124
Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: CP09 SB012

Lab Sample ID: 280-21683-79
Client Matrix: Solid

Date Sampled: 10/16/2011 1140
Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP09 SB013**

Lab Sample ID: 280-21683-80 Date Sampled: 10/16/2011 1142
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP08 SB009**

Lab Sample ID: 280-21683-81 Date Sampled: 10/16/2011 1155

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP08 SB010**

Lab Sample ID: 280-21683-82 Date Sampled: 10/16/2011 1159
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP08 SB011**

Lab Sample ID: 280-21683-83 Date Sampled: 10/16/2011 1159
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP11 SB16A**

Lab Sample ID: 280-21683-84 Date Sampled: 10/16/2011 1241
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92133	Analysis Date: 10/20/2011 0741						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP11 SB16B**

Lab Sample ID: 280-21683-85 Date Sampled: 10/16/2011 1243
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	9.4		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP07 SB007**

Lab Sample ID: 280-21683-86
Client Matrix: Solid

Date Sampled: 10/16/2011 1300
Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	9.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	90		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP07 SB008**

Lab Sample ID: 280-21683-87 Date Sampled: 10/16/2011 1303
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: CP04 SB001

Lab Sample ID: 280-21683-88
Client Matrix: Solid

Date Sampled: 10/16/2011 1320
Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.8		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP04 SB002**

Lab Sample ID: 280-21683-89 Date Sampled: 10/16/2011 1325

Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	6.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	93		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP06 SB005**

Lab Sample ID: 280-21683-90 Date Sampled: 10/16/2011 1340
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	9.1		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21683-1

General Chemistry

Client Sample ID: CP06 SB006

Lab Sample ID: 280-21683-91 Date Sampled: 10/16/2011 1343
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	7.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	93		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP05 SB003**

Lab Sample ID: 280-21683-92 Date Sampled: 10/16/2011 1401
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	8.0		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	92		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21683-1

General Chemistry

Client Sample ID: **CP05 SB004**

Lab Sample ID: 280-21683-93 Date Sampled: 10/16/2011 1404
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	6.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	93		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP12 SB017**

Lab Sample ID: 280-21683-94 Date Sampled: 10/16/2011 1522
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP12 SB018**

Lab Sample ID: 280-21683-95 Date Sampled: 10/16/2011 1525
Client Matrix: Solid Date Received: 10/18/2011 0900

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	9.6		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N
Percent Solids	90		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-91906	Analysis Date: 10/19/2011 1222					DryWt Corrected: N

Surrogate Recovery Report

8321B Nitroaromatics and Nitramines (LC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	NBZ %Rec
280-21683-1	MG26 SB104	80
280-21683-2	MG19 IS016	79
280-21683-3	MG19 IS017	82
280-21683-4	MG19 IS018	88
280-21683-5	MG20 SB090	76
280-21683-6	MG20 SB091	77
280-21683-7	MG22 SB094	76
280-21683-8	MG22 SB095	82
280-21683-9	MG22 SB096	80
280-21683-10	MG27 SB107	78
280-21683-11	MG27 SB106	79
280-21683-12	MG25 SB102	75
280-21683-13	MG23 SB099	80
280-21683-14	MG25 SB103	76
280-21683-15	MG23 SB098	75
280-21683-16	MG21 SB093	74
280-21683-17	MG24 SB100	83
280-21683-18	MG21 SB092	86
280-21683-19	MG35 SB123	80
280-21683-20	MG26 SB105	73
280-21683-21	MG24 SB101	72
280-21683-22	MG35 SB124	77
280-21683-23	MG35 SB125	72
280-21683-24	MG36 SB126	83
280-21683-25	MG36 SB127	77
280-21683-26	MG32 SB115	83
280-21683-27	MG32 SB116	80
280-21683-28	MG33 SB117	80
280-21683-29	MG33 SB119	74

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	68-140

Surrogate Recovery Report

8321B Nitroaromatics and Nitramines (LC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	NBZ %Rec
280-21683-30	MG33 SB118	76
280-21683-31	MG34 SB121	81
280-21683-32	MG34 SB122	77
280-21683-33	MG31 SB113	91
280-21683-34	MG31 SB114	87
280-21683-35	MG30 SB111	80
280-21683-36	MG30 SB112	82
280-21683-37	MG29 SB109	81
280-21683-38	MG29 SB110	78
280-21683-39	MG06 SB062	77
280-21683-40	MG06 SB063	75
280-21683-41	MG06 SB064	72
280-21683-42	MG05 SB060	77
280-21683-43	MG05 SB061	77
280-21683-44	MG04 SB058	74
280-21683-45	MG04 SB059	72
280-21683-46	MG03 SB056	85
280-21683-47	MG03 SB057	83
280-21683-48	MG02 SB054	90
280-21683-49	MG02 SB055	72
280-21683-50	MG15 SB081	81
280-21683-51	MG15 SB082	78
280-21683-52	MG12 SB073	78
280-21683-53	MG12 SB075	78
280-21683-54	MG12 SB074	78
280-21683-55	MG11 SB071	84
280-21683-56	MG11 SB072	91
280-21683-57	MG14 SB079	82
280-21683-58	MG14 SB080	85
280-21683-59	MG13 SB077	88

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	68-140

Surrogate Recovery Report

8321B Nitroaromatics and Nitramines (LC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	NBZ %Rec
280-21683-60	MG13 SB078	73
280-21683-61	MG16 SB083	86
280-21683-62	MG16 SB084	87
280-21683-63	MG09 SB069	78
280-21683-64	MG09 SB070	77
280-21683-65	MG08 SB067	96
280-21683-66	MG08 SB068	84
280-21683-67	MG07 SB065	80
280-21683-68	MG07 SB066	85
280-21683-69	MG17 SB085	77
280-21683-70	MG17 SB086	83
280-21683-71	MG17 SB087	87
280-21683-72	MG18 SB088	81
280-21683-73	MG18 SB089	85
280-21683-74	CP01 IS01	74
280-21683-75	CP01 IS02	81
280-21683-76	CP01 IS03	76
280-21683-77	CP10 SB014	85
280-21683-78	CP10 SB015	84
280-21683-79	CP09 SB012	85
280-21683-80	CP09 SB013	87
280-21683-81	CP08 SB009	78
280-21683-82	CP08 SB010	78
280-21683-83	CP08 SB011	85
280-21683-84	CP11 SB16A	80
280-21683-85	CP11 SB16B	89
280-21683-86	CP07 SB007	79
280-21683-87	CP07 SB008	83
280-21683-88	CP04 SB001	81
280-21683-89	CP04 SB002	86

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	68-140

Surrogate Recovery Report

8321B Nitroaromatics and Nitramines (LC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	NBZ %Rec
280-21683-90	CP06 SB005	86
280-21683-91	CP06 SB006	73
280-21683-92	CP05 SB003	74
280-21683-93	CP05 SB004	84
280-21683-94	CP12 SB017	79
280-21683-95	CP12 SB018	90
MB 280-92097/1-A		86
MB 280-92102/1-A		87
MB 280-92311/1-A		88
MB 280-92314/1-A		76
MB 280-92315/1-A		83
MB 280-93548/1-A		82
GB 280-92116/1-B		86
LCS 280-92097/2-A		96
LCS 280-92102/2-A		86
LCS 280-92311/2-A		81
LCS 280-92314/2-A		72
LCS 280-92315/2-A		93
LCS 280-93548/2-A		90
LCSSRM 280-92116/2-B		85
280-21683-11 MS	MG27 SB106 MS	77
280-21683-18 MS	MG21 SB092 MS	74
280-21683-47 MS	MG03 SB057 MS	77
280-21683-54 MS	MG12 SB074 MS	82
280-21683-80 MS	CP09 SB013 MS	83
280-21683-11 MSD	MG27 SB106 MSD	78
280-21683-18 MSD	MG21 SB092 MSD	76
280-21683-47 MSD	MG03 SB057 MSD	82
280-21683-54 MSD	MG12 SB074 MSD	80

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	68-140

Surrogate Recovery Report

8321B Nitroaromatics and Nitramines (LC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	NBZ %Rec
280-21683-80 MSD	CP09 SB013 MSD	88

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	68-140

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21683-1

Method Blank - Batch: 280-92097

Method: 8321B
Preparation: 8330B

Lab Sample ID:	MB 280-92097/1-A	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92097	Lab File ID:	ex41J21587.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.26 g
Analysis Date:	11/01/2011 1725	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.024	U	0.012	0.097
1,3-Dinitrobenzene	0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene	0.012	U	0.0049	0.097
2,4-Dinitrotoluene	0.012	U	0.0080	0.097
2,6-Dinitrotoluene	0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene	0.024	U	0.012	0.097
2-Nitrotoluene	0.012	U	0.0056	0.097
3-Nitrotoluene	0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene	0.012	U	0.0050	0.097
4-Nitrotoluene	0.024	U	0.011	0.097
HMX	0.012	U	0.0057	0.097
Nitrobenzene	0.012	U	0.011	0.097
Nitroglycerin	0.012	U	0.010	0.097
PETN	0.012	U	0.0050	0.097
RDX	0.012	U	0.0042	0.097
Tetryl	0.012	U	0.0074	0.097

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	86	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Control Sample - Batch: 280-92097

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCS 280-92097/2-A	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92097	Lab File ID:	ex41J21588.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.35 g
Analysis Date:	11/01/2011 1739	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.386	0.313	81	45 - 142	
1,3-Dinitrobenzene	0.386	0.379	98	74 - 130	
2,4,6-Trinitrotoluene	0.386	0.286	74	60 - 135	
2,4-Dinitrotoluene	0.386	0.362	94	63 - 130	
2,6-Dinitrotoluene	0.386	0.340	88	65 - 133	
2-Amino-4,6-dinitrotoluene	0.386	0.435	112	51 - 148	
2-Nitrotoluene	0.386	0.353	91	59 - 150	
3-Nitrotoluene	0.386	0.325	84	56 - 154	
4-Amino-2,6-dinitrotoluene	0.386	0.388	100	60 - 141	
4-Nitrotoluene	0.386	0.326	84	72 - 145	
HMX	0.386	0.353	91	48 - 131	
Nitrobenzene	0.386	0.376	97	70 - 140	
Nitroglycerin	0.386	0.364	94	27 - 146	
PETN	0.386	0.421	109	31 - 171	
RDX	0.386	0.400	104	69 - 130	
Tetryl	0.386	0.307	79	10 - 170	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	96	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92097

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21683-54	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92097	Lab File ID:	ex41J21591.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.13 g
Analysis Date:	11/01/2011 1820			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

MSD Lab Sample ID:	280-21683-54	Analysis Batch:	280-94193	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92097	Lab File ID:	ex41J21592.d
Dilution:	1.0	Leach Batch:	280-91878	Initial Weight/Volume:	10.16 g
Analysis Date:	11/01/2011 1833			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 1921			Injection Volume:	40 uL
Leach Date:	10/18/2011 2247				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,3,5-Trinitrobenzene	74	78	45 - 142	5	70		
1,3-Dinitrobenzene	108	89	74 - 130	20	25		
2,4,6-Trinitrotoluene	62	63	60 - 135	2	25		
2,4-Dinitrotoluene	101	99	63 - 130	2	25		
2,6-Dinitrotoluene	88	93	65 - 133	6	25		
2-Amino-4,6-dinitrotoluene	105	114	51 - 148	8	25		
2-Nitrotoluene	93	95	59 - 150	2	45		
3-Nitrotoluene	88	92	56 - 154	5	25		
4-Amino-2,6-dinitrotoluene	95	105	60 - 141	10	48		
4-Nitrotoluene	87	88	72 - 145	2	25		
HMX	86	85	48 - 131	1	25		
Nitrobenzene	89	90	70 - 140	1	25		
Nitroglycerin	96	84	27 - 146	13	92		
PETN	104	110	31 - 171	6	40		
RDX	94	94	69 - 130	0	25		
Tetryl	66	65	10 - 170	1	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	82	80	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92097

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21683-54	Units:	mg/Kg	MSD Lab Sample ID:	280-21683-54
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/01/2011 1820			Analysis Date:	11/01/2011 1833
Prep Date:	10/19/2011 1921			Prep Date:	10/19/2011 1921
Leach Date:	10/18/2011 2247			Leach Date:	10/18/2011 2247

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,3,5-Trinitrobenzene	0.025	U	0.395	0.394	0.293	0.307
1,3-Dinitrobenzene	0.012	U	0.395	0.394	0.426	0.349
2,4,6-Trinitrotoluene	0.012	U	0.395	0.394	0.245	0.250
2,4-Dinitrotoluene	0.012	U	0.395	0.394	0.397	0.390
2,6-Dinitrotoluene	0.025	U	0.395	0.394	0.348	0.368
2-Amino-4,6-dinitrotoluene	0.025	U	0.395	0.394	0.413	0.448
2-Nitrotoluene	0.012	U	0.395	0.394	0.369	0.375
3-Nitrotoluene	0.025	U	0.395	0.394	0.346	0.364
4-Amino-2,6-dinitrotoluene	0.012	U	0.395	0.394	0.376	0.415
4-Nitrotoluene	0.025	U	0.395	0.394	0.342	0.348
HMX	0.012	U	0.395	0.394	0.338	0.334
Nitrobenzene	0.012	U	0.395	0.394	0.349	0.353
Nitroglycerin	0.012	U	0.395	0.394	0.378	0.332
PETN	0.012	U	0.395	0.394	0.410	0.434
RDX	0.012	U	0.395	0.394	0.370	0.371
Tetryl	0.012	U	0.395	0.394	0.259	0.257

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21683-1

Method Blank - Batch: 280-92102

Method: 8321B
Preparation: 8330B

Lab Sample ID:	MB 280-92102/1-A	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92102	Lab File ID:	ex41J21614.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.33 g
Analysis Date:	11/01/2011 2333	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.024	U	0.012	0.097
1,3-Dinitrobenzene	0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene	0.012	U	0.0049	0.097
2,4-Dinitrotoluene	0.012	U	0.0079	0.097
2,6-Dinitrotoluene	0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene	0.024	U	0.012	0.097
2-Nitrotoluene	0.012	U	0.0056	0.097
3-Nitrotoluene	0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene	0.012	U	0.0049	0.097
4-Nitrotoluene	0.024	U	0.011	0.097
HMX	0.012	U	0.0056	0.097
Nitrobenzene	0.012	U	0.010	0.097
Nitroglycerin	0.012	U	0.010	0.097
PETN	0.012	U	0.0050	0.097
RDX	0.012	U	0.0042	0.097
Tetryl	0.012	U	0.0073	0.097

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	87	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Control Sample - Batch: 280-92102

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCS 280-92102/2-A	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92102	Lab File ID:	ex41J21615.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.14 g
Analysis Date:	11/01/2011 2347	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.394	0.313	79	45 - 142	
1,3-Dinitrobenzene	0.394	0.370	94	74 - 130	
2,4,6-Trinitrotoluene	0.394	0.289	73	60 - 135	
2,4-Dinitrotoluene	0.394	0.364	92	63 - 130	
2,6-Dinitrotoluene	0.394	0.358	91	65 - 133	
2-Amino-4,6-dinitrotoluene	0.394	0.452	114	51 - 148	
2-Nitrotoluene	0.394	0.375	95	59 - 150	
3-Nitrotoluene	0.394	0.368	93	56 - 154	
4-Amino-2,6-dinitrotoluene	0.394	0.376	95	60 - 141	
4-Nitrotoluene	0.394	0.360	91	72 - 145	
HMX	0.394	0.330	84	48 - 131	
Nitrobenzene	0.394	0.353	89	70 - 140	
Nitroglycerin	0.394	0.339	86	27 - 146	
PETN	0.394	0.426	108	31 - 171	
RDX	0.394	0.363	92	69 - 130	
Tetryl	0.394	0.327	83	10 - 170	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	86	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92102

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21683-80	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92102	Lab File ID:	ex41J21621.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.15 g
Analysis Date:	11/02/2011 0109			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

MSD Lab Sample ID:	280-21683-80	Analysis Batch:	280-94194	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92102	Lab File ID:	ex41J21622.d
Dilution:	1.0	Leach Batch:	280-91879	Initial Weight/Volume:	10.08 g
Analysis Date:	11/02/2011 0122			Final Weight/Volume:	40 mL
Prep Date:	10/19/2011 2050			Injection Volume:	40 uL
Leach Date:	10/18/2011 2302				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,3,5-Trinitrobenzene	81	86	45 - 142	6	70		
1,3-Dinitrobenzene	94	97	74 - 130	3	25		
2,4,6-Trinitrotoluene	75	75	60 - 135	2	25		
2,4-Dinitrotoluene	94	95	63 - 130	2	25		
2,6-Dinitrotoluene	92	87	65 - 133	5	25		
2-Amino-4,6-dinitrotoluene	107	114	51 - 148	7	25		
2-Nitrotoluene	96	97	59 - 150	1	45		
3-Nitrotoluene	99	103	56 - 154	5	25		
4-Amino-2,6-dinitrotoluene	91	96	60 - 141	6	48		
4-Nitrotoluene	92	99	72 - 145	8	25		
HMX	79	85	48 - 131	8	25		
Nitrobenzene	90	97	70 - 140	8	25		
Nitroglycerin	89	89	27 - 146	1	92		
PETN	112	109	31 - 171	2	40		
RDX	98	91	69 - 130	6	25		
Tetryl	81	78	10 - 170	4	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	83	88	68 - 140

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92102

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21683-80	Units: mg/Kg		MSD Lab Sample ID:	280-21683-80
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/02/2011 0109			Analysis Date:	11/02/2011 0122
Prep Date:	10/19/2011 2050			Prep Date:	10/19/2011 2050
Leach Date:	10/18/2011 2302			Leach Date:	10/18/2011 2302

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,3,5-Trinitrobenzene	0.023	U	0.394	0.397	0.321	0.342
1,3-Dinitrobenzene	0.012	U	0.394	0.397	0.372	0.384
2,4,6-Trinitrotoluene	0.012	U	0.394	0.397	0.294	0.299
2,4-Dinitrotoluene	0.012	U	0.394	0.397	0.369	0.379
2,6-Dinitrotoluene	0.023	U	0.394	0.397	0.363	0.346
2-Amino-4,6-dinitrotoluene	0.023	U	0.394	0.397	0.422	0.451
2-Nitrotoluene	0.012	U	0.394	0.397	0.379	0.384
3-Nitrotoluene	0.023	U	0.394	0.397	0.391	0.409
4-Amino-2,6-dinitrotoluene	0.012	U	0.394	0.397	0.360	0.383
4-Nitrotoluene	0.023	U	0.394	0.397	0.362	0.394
HMX	0.012	U	0.394	0.397	0.312	0.336
Nitrobenzene	0.012	U	0.394	0.397	0.354	0.385
Nitroglycerin	0.012	U	0.394	0.397	0.351	0.355
PETN	0.012	U	0.394	0.397	0.443	0.434
RDX	0.012	U	0.394	0.397	0.385	0.363
Tetryl	0.012	U	0.394	0.397	0.320	0.308

Client: UXB International, Inc. | Job Number: 280-21683-1

Method Blank - Batch: 280-92311

Method: 8321B
Preparation: 8330B

Lab Sample ID:	MB 280-92311/1-A	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92311	Lab File ID:	ex41J21560.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.21 g
Analysis Date:	11/01/2011 1114	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.024	U	0.012	0.098
1,3-Dinitrobenzene	0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene	0.012	U	0.0049	0.098
2,4-Dinitrotoluene	0.012	U	0.0080	0.098
2,6-Dinitrotoluene	0.024	U	0.020	0.098
2-Amino-4,6-dinitrotoluene	0.024	U	0.012	0.098
2-Nitrotoluene	0.012	U	0.0056	0.098
3-Nitrotoluene	0.024	U	0.013	0.098
4-Amino-2,6-dinitrotoluene	0.012	U	0.0050	0.098
4-Nitrotoluene	0.024	U	0.011	0.098
HMX	0.012	U	0.0057	0.098
Nitrobenzene	0.012	U	0.011	0.098
Nitroglycerin	0.012	U	0.010	0.098
PETN	0.012	U	0.0050	0.098
RDX	0.012	U	0.0042	0.098
Tetryl	0.012	U	0.0074	0.098

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	88	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Control Sample - Batch: 280-92311

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCS 280-92311/2-A	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92311	Lab File ID:	ex41J21561.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.10 g
Analysis Date:	11/01/2011 1128	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.396	0.305	77	45 - 142	
1,3-Dinitrobenzene	0.396	0.377	95	74 - 130	
2,4,6-Trinitrotoluene	0.396	0.288	73	60 - 135	
2,4-Dinitrotoluene	0.396	0.377	95	63 - 130	
2,6-Dinitrotoluene	0.396	0.338	85	65 - 133	
2-Amino-4,6-dinitrotoluene	0.396	0.411	104	51 - 148	
2-Nitrotoluene	0.396	0.400	101	59 - 150	
3-Nitrotoluene	0.396	0.368	93	56 - 154	
4-Amino-2,6-dinitrotoluene	0.396	0.411	104	60 - 141	
4-Nitrotoluene	0.396	0.383	97	72 - 145	
HMX	0.396	0.335	85	48 - 131	
Nitrobenzene	0.396	0.379	96	70 - 140	
Nitroglycerin	0.396	0.361	91	27 - 146	
PETN	0.396	0.473	120	31 - 171	
RDX	0.396	0.381	96	69 - 130	
Tetryl	0.396	0.320	81	10 - 170	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	81	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92311

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21683-47	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92311	Lab File ID:	ex41J21579.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.07 g
Analysis Date:	11/01/2011 1536			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

MSD Lab Sample ID:	280-21683-47	Analysis Batch:	280-94192	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92311	Lab File ID:	ex41J21580.d
Dilution:	1.0	Leach Batch:	280-91881	Initial Weight/Volume:	10.13 g
Analysis Date:	11/01/2011 1550			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1923			Injection Volume:	40 uL
Leach Date:	10/18/2011 2347				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,3,5-Trinitrobenzene	76	83	45 - 142	9	70		
1,3-Dinitrobenzene	95	94	74 - 130	1	25		
2,4,6-Trinitrotoluene	67	74	60 - 135	9	25		
2,4-Dinitrotoluene	87	88	63 - 130	1	25		
2,6-Dinitrotoluene	88	83	65 - 133	6	25		
2-Amino-4,6-dinitrotoluene	103	105	51 - 148	1	25		
2-Nitrotoluene	87	91	59 - 150	4	45		
3-Nitrotoluene	88	95	56 - 154	7	25		
4-Amino-2,6-dinitrotoluene	98	91	60 - 141	7	48		
4-Nitrotoluene	82	86	72 - 145	4	25		
HMX	83	83	48 - 131	1	25		
Nitrobenzene	87	89	70 - 140	2	25		
Nitroglycerin	90	83	27 - 146	9	92		
PETN	103	108	31 - 171	4	40		
RDX	90	95	69 - 130	5	25		
Tetryl	69	74	10 - 170	6	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	77	82	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92311

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21683-47	Units: mg/Kg	MSD Lab Sample ID:	280-21683-47
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Analysis Date:	11/01/2011 1536		Analysis Date:	11/01/2011 1550
Prep Date:	10/20/2011 1923		Prep Date:	10/20/2011 1923
Leach Date:	10/18/2011 2347		Leach Date:	10/18/2011 2347

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,3,5-Trinitrobenzene	0.025	U	0.397	0.395	0.301	0.329
1,3-Dinitrobenzene	0.012	U	0.397	0.395	0.375	0.370
2,4,6-Trinitrotoluene	0.012	U	0.397	0.395	0.265	0.291
2,4-Dinitrotoluene	0.012	U	0.397	0.395	0.345	0.347
2,6-Dinitrotoluene	0.025	U	0.397	0.395	0.350	0.329
2-Amino-4,6-dinitrotoluene	0.025	U	0.397	0.395	0.411	0.415
2-Nitrotoluene	0.012	U	0.397	0.395	0.346	0.361
3-Nitrotoluene	0.025	U	0.397	0.395	0.351	0.375
4-Amino-2,6-dinitrotoluene	0.012	U	0.397	0.395	0.388	0.361
4-Nitrotoluene	0.025	U	0.397	0.395	0.325	0.338
HMX	0.012	U	0.397	0.395	0.330	0.327
Nitrobenzene	0.012	U	0.397	0.395	0.344	0.352
Nitroglycerin	0.012	U	0.397	0.395	0.357	0.327
PETN	0.012	U	0.397	0.395	0.411	0.428
RDX	0.012	U	0.397	0.395	0.356	0.374
Tetryl	0.012	U	0.397	0.395	0.274	0.292

Method Blank - Batch: 280-92314

Method: 8321B
Preparation: 8330B

Lab Sample ID:	MB 280-92314/1-A	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92314	Lab File ID:	ex41J21154.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.05 g
Analysis Date:	10/25/2011 1347	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.025	U	0.013	0.10
1,3-Dinitrobenzene	0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene	0.012	U	0.0050	0.10
2,4-Dinitrotoluene	0.012	U	0.0081	0.10
2,6-Dinitrotoluene	0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene	0.025	U	0.012	0.10
2-Nitrotoluene	0.012	U	0.0057	0.10
3-Nitrotoluene	0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene	0.012	U	0.0051	0.10
4-Nitrotoluene	0.025	U	0.011	0.10
HMX	0.012	U	0.0058	0.10
Nitrobenzene	0.012	U	0.011	0.10
Nitroglycerin	0.012	U	0.010	0.10
PETN	0.012	U	0.0051	0.10
RDX	0.012	U	0.0043	0.10
Tetryl	0.012	U	0.0076	0.10

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	76	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Control Sample - Batch: 280-92314

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCS 280-92314/2-A	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92314	Lab File ID:	ex41J21155.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.04 g
Analysis Date:	10/25/2011 1400	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.398	0.310	78	45 - 142	
1,3-Dinitrobenzene	0.398	0.371	93	74 - 130	
2,4,6-Trinitrotoluene	0.398	0.302	76	60 - 135	
2,4-Dinitrotoluene	0.398	0.347	87	63 - 130	
2,6-Dinitrotoluene	0.398	0.321	81	65 - 133	
2-Amino-4,6-dinitrotoluene	0.398	0.425	107	51 - 148	
2-Nitrotoluene	0.398	0.336	84	59 - 150	
3-Nitrotoluene	0.398	0.357	90	56 - 154	
4-Amino-2,6-dinitrotoluene	0.398	0.380	96	60 - 141	
4-Nitrotoluene	0.398	0.340	85	72 - 145	
HMX	0.398	0.312	78	48 - 131	
Nitrobenzene	0.398	0.339	85	70 - 140	
Nitroglycerin	0.398	0.345	87	27 - 146	
PETN	0.398	0.414	104	31 - 171	
RDX	0.398	0.352	88	69 - 130	
Tetryl	0.398	0.287	72	10 - 170	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	72	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92314

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21683-18	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92314	Lab File ID:	ex41J21162.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.16 g
Analysis Date:	10/25/2011 1536			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

MSD Lab Sample ID:	280-21683-18	Analysis Batch:	280-92961	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92314	Lab File ID:	ex41J21163.d
Dilution:	1.0	Leach Batch:	280-91882	Initial Weight/Volume:	10.32 g
Analysis Date:	10/25/2011 1550			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1917			Injection Volume:	40 uL
Leach Date:	10/19/2011 0004				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,3,5-Trinitrobenzene	77	72	45 - 142	9	70		
1,3-Dinitrobenzene	89	91	74 - 130	1	25		
2,4,6-Trinitrotoluene	80	77	60 - 135	6	25		
2,4-Dinitrotoluene	91	92	63 - 130	0	25		
2,6-Dinitrotoluene	85	90	65 - 133	4	25		
2-Amino-4,6-dinitrotoluene	119	117	51 - 148	3	25		
2-Nitrotoluene	92	98	59 - 150	5	45		
3-Nitrotoluene	88	91	56 - 154	1	25		
4-Amino-2,6-dinitrotoluene	91	97	60 - 141	5	48		
4-Nitrotoluene	87	88	72 - 145	0	25		
HMX	83	80	48 - 131	5	25		
Nitrobenzene	82	86	70 - 140	4	25		
Nitroglycerin	81	87	27 - 146	6	92		
PETN	106	115	31 - 171	6	40		
RDX	89	86	69 - 130	6	25		
Tetryl	73	75	10 - 170	2	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	74	76	68 - 140

Client: UXB International, Inc. | Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92314

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21683-18	Units:	mg/Kg
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	10/25/2011 1536		
Prep Date:	10/20/2011 1917		
Leach Date:	10/19/2011 0004		

MSD Lab Sample ID:	280-21683-18
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	10/25/2011 1550
Prep Date:	10/20/2011 1917
Leach Date:	10/19/2011 0004

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,3,5-Trinitrobenzene	0.025	U	0.394	0.388	0.305	0.278
1,3-Dinitrobenzene	0.012	U	0.394	0.388	0.350	0.353
2,4,6-Trinitrotoluene	0.012	U	0.394	0.388	0.315	0.297
2,4-Dinitrotoluene	0.012	U	0.394	0.388	0.360	0.359
2,6-Dinitrotoluene	0.025	U	0.394	0.388	0.336	0.348
2-Amino-4,6-dinitrotoluene	0.025	U	0.394	0.388	0.469	0.454
2-Nitrotoluene	0.012	U	0.394	0.388	0.363	0.380
3-Nitrotoluene	0.025	U	0.394	0.388	0.348	0.353
4-Amino-2,6-dinitrotoluene	0.012	U	0.394	0.388	0.359	0.378
4-Nitrotoluene	0.025	U	0.394	0.388	0.343	0.342
HMX	0.012	U	0.394	0.388	0.327	0.311
Nitrobenzene	0.012	U	0.394	0.388	0.324	0.335
Nitroglycerin	0.012	U	0.394	0.388	0.318	0.337
PETN	0.012	U	0.394	0.388	0.419	0.445
RDX	0.012	U	0.394	0.388	0.352	0.333
Tetryl	0.012	U	0.394	0.388	0.286	0.292

Client: UXB International, Inc. Job Number: 280-21683-1

Method Blank - Batch: 280-92315

Method: 8321B
Preparation: 8330B

Lab Sample ID:	MB 280-92315/1-A	Analysis Batch:	280-92964	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92315	Lab File ID:	ex41J21181.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.81 g
Analysis Date:	10/25/2011 1955	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1915			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.023	U	0.012	0.093
1,3-Dinitrobenzene	0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene	0.012	U	0.0047	0.093
2,4-Dinitrotoluene	0.012	U	0.0076	0.093
2,6-Dinitrotoluene	0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene	0.023	U	0.011	0.093
2-Nitrotoluene	0.012	U	0.0053	0.093
3-Nitrotoluene	0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene	0.012	U	0.0047	0.093
4-Nitrotoluene	0.023	U	0.010	0.093
HMX	0.012	U	0.0054	0.093
Nitrobenzene	0.012	U	0.010	0.093
Nitroglycerin	0.012	U	0.0097	0.093
PETN	0.012	U	0.0048	0.093
RDX	0.012	U	0.0040	0.093
Tetryl	0.012	U	0.0070	0.093

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	83	68 - 140

Quality Control Results

Client: UXB International, Inc. | Job Number: 280-21683-1

Lab Control Sample - Batch: 280-92315

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCS 280-92315/2-A	Analysis Batch:	280-92964	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92315	Lab File ID:	ex41J21182.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.17 g
Analysis Date:	10/25/2011 2009	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1915			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.393	0.336	85	45 - 142	
1,3-Dinitrobenzene	0.393	0.414	105	74 - 130	
2,4,6-Trinitrotoluene	0.393	0.383	97	60 - 135	
2,4-Dinitrotoluene	0.393	0.395	100	63 - 130	
2,6-Dinitrotoluene	0.393	0.387	98	65 - 133	
2-Amino-4,6-dinitrotoluene	0.393	0.507	129	51 - 148	
2-Nitrotoluene	0.393	0.381	97	59 - 150	
3-Nitrotoluene	0.393	0.379	96	56 - 154	
4-Amino-2,6-dinitrotoluene	0.393	0.434	110	60 - 141	
4-Nitrotoluene	0.393	0.370	94	72 - 145	
HMX	0.393	0.354	90	48 - 131	
Nitrobenzene	0.393	0.402	102	70 - 140	
Nitroglycerin	0.393	0.384	98	27 - 146	
PETN	0.393	0.474	121	31 - 171	
RDX	0.393	0.404	103	69 - 130	
Tetryl	0.393	0.374	95	10 - 170	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	93	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92315

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21683-11	Analysis Batch:	280-92964	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92315	Lab File ID:	ex41J21202.d
Dilution:	1.0	Leach Batch:	280-91880	Initial Weight/Volume:	10.32 g
Analysis Date:	10/26/2011 0837			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1915			Injection Volume:	40 uL
Leach Date:	10/18/2011 2335				

MSD Lab Sample ID:	280-21683-11	Analysis Batch:	280-92964	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92315	Lab File ID:	ex41J21203.d
Dilution:	1.0	Leach Batch:	280-91880	Initial Weight/Volume:	10.21 g
Analysis Date:	10/26/2011 0851			Final Weight/Volume:	40 mL
Prep Date:	10/20/2011 1915			Injection Volume:	40 uL
Leach Date:	10/18/2011 2335				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,3,5-Trinitrobenzene	73	77	45 - 142	7	70		
1,3-Dinitrobenzene	92	93	74 - 130	2	25		
2,4,6-Trinitrotoluene	77	82	60 - 135	7	25		
2,4-Dinitrotoluene	92	94	63 - 130	3	25		
2,6-Dinitrotoluene	84	85	65 - 133	2	25		
2-Amino-4,6-dinitrotoluene	99	116	51 - 148	16	25		
2-Nitrotoluene	95	93	59 - 150	2	45		
3-Nitrotoluene	98	94	56 - 154	2	25		
4-Amino-2,6-dinitrotoluene	85	94	60 - 141	12	48		
4-Nitrotoluene	89	89	72 - 145	0	25		
HMX	76	76	48 - 131	1	25		
Nitrobenzene	87	86	70 - 140	0	25		
Nitroglycerin	83	93	27 - 146	12	92		
PETN	107	108	31 - 171	1	40		
RDX	88	88	69 - 130	1	25		
Tetryl	76	80	10 - 170	7	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	77	78	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92315

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21683-11	Units: mg/Kg	MSD Lab Sample ID:	280-21683-11
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Analysis Date:	10/26/2011 0837		Analysis Date:	10/26/2011 0851
Prep Date:	10/20/2011 1915		Prep Date:	10/20/2011 1915
Leach Date:	10/18/2011 2335		Leach Date:	10/18/2011 2335

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,3,5-Trinitrobenzene	0.024	U	0.388	0.392	0.282	0.301
1,3-Dinitrobenzene	0.012	U	0.388	0.392	0.357	0.364
2,4,6-Trinitrotoluene	0.012	U	0.388	0.392	0.298	0.320
2,4-Dinitrotoluene	0.012	U	0.388	0.392	0.359	0.370
2,6-Dinitrotoluene	0.024	U	0.388	0.392	0.327	0.334
2-Amino-4,6-dinitrotoluene	0.024	U	0.388	0.392	0.386	0.452
2-Nitrotoluene	0.012	U	0.388	0.392	0.370	0.363
3-Nitrotoluene	0.024	U	0.388	0.392	0.379	0.370
4-Amino-2,6-dinitrotoluene	0.012	U	0.388	0.392	0.329	0.369
4-Nitrotoluene	0.024	U	0.388	0.392	0.346	0.347
HMX	0.012	U	0.388	0.392	0.296	0.298
Nitrobenzene	0.012	U	0.388	0.392	0.337	0.337
Nitroglycerin	0.012	U	0.388	0.392	0.323	0.363
PETN	0.012	U	0.388	0.392	0.415	0.421
RDX	0.012	U	0.388	0.392	0.342	0.345
Tetryl	0.012	U	0.388	0.392	0.293	0.314

Client: UXB International, Inc. Job Number: 280-21683-1

Method Blank - Batch: 280-93548

Method: 8321B
Preparation: 8330B

Lab Sample ID:	MB 280-93548/1-A	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93548	Lab File ID:	ex41J21641.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.28 g
Analysis Date:	11/02/2011 0542	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.024	U	0.012	0.097
1,3-Dinitrobenzene	0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene	0.012	U	0.0049	0.097
2,4-Dinitrotoluene	0.012	U	0.0080	0.097
2,6-Dinitrotoluene	0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene	0.024	U	0.012	0.097
2-Nitrotoluene	0.012	U	0.0056	0.097
3-Nitrotoluene	0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene	0.012	U	0.0050	0.097
4-Nitrotoluene	0.024	U	0.011	0.097
HMX	0.012	U	0.0057	0.097
Nitrobenzene	0.012	U	0.011	0.097
Nitroglycerin	0.012	U	0.010	0.097
PETN	0.012	U	0.0050	0.097
RDX	0.012	U	0.0042	0.097
Tetryl	0.012	U	0.0074	0.097

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	82	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Grinding Blank - Batch: 280-93548

Method: 8321B
Preparation: 8330B

Lab Sample ID:	GB 280-92116/1-B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93548	Lab File ID:	ex41J21643.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.82 g
Analysis Date:	11/02/2011 0609	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/19/2011 2322				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.023	U	0.012	0.092
1,3-Dinitrobenzene	0.012	U	0.0066	0.092
2,4,6-Trinitrotoluene	0.0998		0.0046	0.092
2,4-Dinitrotoluene	0.012	U	0.0076	0.092
2,6-Dinitrotoluene	0.023	U	0.018	0.092
2-Amino-4,6-dinitrotoluene	0.023	U	0.011	0.092
2-Nitrotoluene	0.012	U	0.0053	0.092
3-Nitrotoluene	0.023	U	0.012	0.092
4-Amino-2,6-dinitrotoluene	0.012	U	0.0047	0.092
4-Nitrotoluene	0.023	U	0.010	0.092
HMX	0.012	U	0.0054	0.092
Nitrobenzene	0.012	U	0.010	0.092
Nitroglycerin	0.012	U	0.0097	0.092
PETN	0.012	U	0.0048	0.092
RDX	0.012	U	0.0040	0.092
Tetryl	0.012	U	0.0070	0.092

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	86	68 - 140

Client: UXB International, Inc.

Job Number: 280-21683-1

Lab Control Sample - Batch: 280-93548

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCS 280-93548/2-A	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93548	Lab File ID:	ex41J21642.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.07 g
Analysis Date:	11/02/2011 0555	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.397	0.305	77	45 - 142	
1,3-Dinitrobenzene	0.397	0.425	107	74 - 130	
2,4,6-Trinitrotoluene	0.397	0.244	61	60 - 135	
2,4-Dinitrotoluene	0.397	0.416	105	63 - 130	
2,6-Dinitrotoluene	0.397	0.369	93	65 - 133	
2-Amino-4,6-dinitrotoluene	0.397	0.485	122	51 - 148	
2-Nitrotoluene	0.397	0.396	100	59 - 150	
3-Nitrotoluene	0.397	0.392	99	56 - 154	
4-Amino-2,6-dinitrotoluene	0.397	0.420	106	60 - 141	
4-Nitrotoluene	0.397	0.385	97	72 - 145	
HMX	0.397	0.369	93	48 - 131	
Nitrobenzene	0.397	0.378	95	70 - 140	
Nitroglycerin	0.397	0.413	104	27 - 146	
PETN	0.397	0.486	122	31 - 171	
RDX	0.397	0.417	105	69 - 130	
Tetryl	0.397	0.222	56	10 - 170	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	90	68 - 140

LCS-Certified Reference Material - Batch: 280-93548

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCSSRM 280-92116/2-B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93548	Lab File ID:	ex41J21644.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.18 g
Analysis Date:	11/02/2011 0623	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/19/2011 2322				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.600	0.578	96	58 - 116	
1,3-Dinitrobenzene	0.602	0.610	101	69 - 116	
2,4,6-Trinitrotoluene	0.600	0.610	102	69 - 120	
2,4-Dinitrotoluene	0.600	0.581	97	69 - 137	
2,6-Dinitrotoluene	0.602	0.536	89	60 - 121	
2-Amino-4,6-dinitrotoluene	0.600	0.547	91	56 - 108	
2-Nitrotoluene	0.604	0.563	93	67 - 117	
3-Nitrotoluene	0.599	0.512	85	69 - 124	
4-Amino-2,6-dinitrotoluene	0.600	0.518	86	46 - 98	
4-Nitrotoluene	0.603	0.530	88	51 - 143	
HMX	0.600	0.568	95	59 - 131	
Nitrobenzene	0.602	0.496	82	58 - 119	
Nitroglycerin	0.600	0.549	91	60 - 115	

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21683-1

LCS-Certified Reference Material - Batch: 280-93548

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCSSRM 280-92116/2-B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93548	Lab File ID:	ex41J21644.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.18 g
Analysis Date:	11/02/2011 0623	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/19/2011 2322				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PETN	0.600	0.634	106	60 - 115	
RDX	0.600	0.517	86	62 - 123	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	85	68 - 140

Client: UXB International, Inc. Job Number: 280-21683-1

Method Blank - Batch: 280-91954 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	MB 280-91954/1-A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91954	Lab File ID:	036_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	11/01/2011 1941	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.0140	J Q	0.014	0.20
Copper	0.213	J	0.070	2.5
Lead	0.0259	J	0.018	0.098
Nickel	0.074	U	0.025	0.34

Lab Control Sample - Batch: 280-91954 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	LCS 280-91954/2-A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91954	Lab File ID:	037_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	11/01/2011 1944	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	19.4	18.4	95	82 - 110	Q
Copper	19.4	19.1	98	87 - 125	
Lead	19.4	18.9	97	81 - 125	
Nickel	19.4	18.8	97	90 - 113	

Post Digestion Spike - Batch: 280-91954 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	280-21683-1	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91954	Lab File ID:	040PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	11/01/2011 1953	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.027	J	109	109	100	75 - 125	Q
Copper	2.3	J	109	109	98	75 - 125	
Lead	6.1		109	109	95	75 - 125	
Nickel	2.5		109	114	102	75 - 125	

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-91954

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-1	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91954	Lab File ID:	041_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	11/01/2011 1955			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-21683-1	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91954	Lab File ID:	042_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	11/01/2011 1958			Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	15	15	82 - 110	2	20	Q J	Q J
Copper	94	95	87 - 125	1	20		
Lead	94	94	81 - 125	0	20		
Nickel	96	96	90 - 113	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-91954

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-1	Units:	mg/Kg	MSD Lab Sample ID:	280-21683-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/01/2011 1955			Analysis Date:	11/01/2011 1958
Prep Date:	10/31/2011 1400			Prep Date:	10/31/2011 1400
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.027	J	21.6	21.6	3.25	Q J	3.31	Q J
Copper	2.3	J	21.6	21.6	22.6		22.9	
Lead	6.1		21.6	21.6	26.3		26.4	
Nickel	2.5		21.6	21.6	23.3		23.1	

Client: UXB International, Inc. Job Number: 280-21683-1

Serial Dilution - Batch: 280-91954

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21683-1	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91954	Lab File ID:	039SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	11/01/2011 1950	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	10/31/2011 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.027	J	0.22	NC	10	U Q
Copper	2.3	J	2.67	NC	10	J D
Lead	6.1		6.16	1.8	10	D
Nickel	2.5		2.38	5.1	10	D

Client: UXB International, Inc. Job Number: 280-21683-1

Method Blank - Batch: 280-91956

Method: 6020A
Preparation: 3050B

Lab Sample ID:	MB 280-91956/1-A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91956	Lab File ID:	069_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	11/01/2011 2117	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.038	U Q	0.013	0.19
Copper	0.126	J	0.067	2.4
Lead	0.047	U	0.017	0.094
Nickel	0.071	U	0.024	0.33
Zinc	0.461	J	0.30	2.4

Lab Control Sample - Batch: 280-91956

Method: 6020A
Preparation: 3050B

Lab Sample ID:	LCS 280-91956/2-A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91956	Lab File ID:	070_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	11/01/2011 2120	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	19.4	20.6	106	82 - 110	Q
Copper	19.4	19.8	102	87 - 125	
Lead	19.4	19.2	99	81 - 125	
Nickel	19.4	19.3	99	90 - 113	
Zinc	19.4	20.4	105	85 - 119	

Post Digestion Spike - Batch: 280-91956

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21683-21	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91956	Lab File ID:	073PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	11/01/2011 2128	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.018	J	98.7	102	103	75 - 125	Q
Copper	2.2	J	98.7	95.2	94	75 - 125	
Lead	3.3		98.7	94.6	93	75 - 125	
Nickel	3.4		98.7	98.2	96	75 - 125	
Zinc	9.2		98.7	105	97	75 - 125	

Client: UXB International, Inc. | Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-91956

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-21	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91956	Lab File ID:	074_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	11/01/2011 2131			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

MSD Lab Sample ID:	280-21683-21	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91956	Lab File ID:	075_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	11/01/2011 2134			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	32	35	82 - 110	10	20	Q J	Q J
Copper	99	96	87 - 125	3	20		
Lead	99	94	81 - 125	4	20		
Nickel	92	110	90 - 113	15	20		
Zinc	128	115	85 - 119	7	20	J	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-91956

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-21	Units:	mg/Kg	MSD Lab Sample ID:	280-21683-21
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/01/2011 2131			Analysis Date:	11/01/2011 2134
Prep Date:	11/01/2011 0530			Prep Date:	11/01/2011 0530
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.018	J	19.2	19.2	6.07	Q J	6.72	Q J
Copper	2.2	J	19.2	19.2	21.1		20.5	
Lead	3.3		19.2	19.2	22.2		21.4	
Nickel	3.4		19.2	19.2	21.1		24.6	
Zinc	9.2		19.2	19.2	33.7	J	31.3	

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21683-1

Serial Dilution - Batch: 280-91956

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21683-21	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91956	Lab File ID:	072SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	11/01/2011 2126	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.018	J	0.20	NC	10	U Q
Copper	2.2	J	2.24	NC	10	J D
Lead	3.3		3.28	0.23	10	D
Nickel	3.4		3.38	1.8	10	D
Zinc	9.2		9.41	NC	10	J D

Client: UXB International, Inc. Job Number: 280-21683-1

Method Blank - Batch: 280-91958

Method: 6020A
Preparation: 3050B

Lab Sample ID:	MB 280-91958/1-A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91958	Lab File ID:	105_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	11/01/2011 2302	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.038	U Q	0.013	0.19
Copper	0.19	U	0.068	2.4
Lead	0.048	U	0.017	0.095
Nickel	0.071	U	0.024	0.33
Zinc	0.552	J	0.30	2.4

Lab Control Sample - Batch: 280-91958

Method: 6020A
Preparation: 3050B

Lab Sample ID:	LCS 280-91958/2-A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91958	Lab File ID:	106_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	11/01/2011 2305	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	19.6	20.0	102	82 - 110	Q
Copper	19.6	19.4	99	87 - 125	
Lead	19.6	18.8	96	81 - 125	
Nickel	19.6	19.0	97	90 - 113	
Zinc	19.6	19.8	101	85 - 119	

Post Digestion Spike - Batch: 280-91958

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21683-41	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91958	Lab File ID:	109PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	11/01/2011 2313	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.024	J	99.4	101	102	75 - 125	Q
Copper	3.2		99.4	95.1	92	75 - 125	
Lead	4.9		99.4	94.4	90	75 - 125	
Nickel	3.0		99.4	96.7	94	75 - 125	
Zinc	10		99.4	105	95	75 - 125	

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-91958

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-41	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91958	Lab File ID:	110_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.17 g
Analysis Date:	11/01/2011 2316			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

MSD Lab Sample ID:	280-21683-41	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91958	Lab File ID:	111_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	11/01/2011 2319			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	% Rec. MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	22	21	82 - 110	6	20	Q J	Q J
Copper	95	92	87 - 125	8	20		
Lead	94	93	81 - 125	8	20		
Nickel	97	92	90 - 113	5	20		
Zinc	105	102	85 - 119	6	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-91958

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-41	Units:	mg/Kg	MSD Lab Sample ID:	280-21683-41
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/01/2011 2316			Analysis Date:	11/01/2011 2319
Prep Date:	11/01/2011 0530			Prep Date:	11/01/2011 0530
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.024	J	18.7	21.0	4.20	Q J	4.48	Q J
Copper	3.2		18.7	21.0	20.9		22.5	
Lead	4.9		18.7	21.0	22.5		24.5	
Nickel	3.0		18.7	21.0	21.2		22.3	
Zinc	10		18.7	21.0	29.8		31.5	

Client: UXB International, Inc. Job Number: 280-21683-1

Serial Dilution - Batch: 280-91958

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21683-41	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91958	Lab File ID:	108SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	11/01/2011 2310	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.024	J	0.20	NC	10	U Q
Copper	3.2		3.40	NC	10	J D
Lead	4.9		5.08	4.4	10	D
Nickel	3.0		3.01	0.23	10	D
Zinc	10		10.9	NC	10	J D

Client: UXB International, Inc. Job Number: 280-21683-1

Method Blank - Batch: 280-91960

Method: 6020A
Preparation: 3050B

Lab Sample ID:	MB 280-91960/1-A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91960	Lab File ID:	140_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	11/02/2011 0043	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.038	U Q	0.013	0.19
Copper	0.19	U	0.068	2.4
Lead	0.048	U	0.017	0.095
Nickel	0.071	U	0.024	0.33
Zinc	0.443	J	0.30	2.4

Lab Control Sample - Batch: 280-91960

Method: 6020A
Preparation: 3050B

Lab Sample ID:	LCS 280-91960/2-A	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91960	Lab File ID:	141_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	11/02/2011 0046	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	19.0	20.3	107	82 - 110	Q
Copper	19.0	19.5	103	87 - 125	
Lead	19.0	19.1	100	81 - 125	
Nickel	19.0	19.1	100	90 - 113	
Zinc	19.0	20.0	105	85 - 119	

Post Digestion Spike - Batch: 280-91960

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21683-61	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91960	Lab File ID:	144PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.12 g
Analysis Date:	11/02/2011 0055	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.025	J	102	99.0	97	75 - 125	Q
Copper	2.1	J	102	100	96	75 - 125	
Lead	8.3		102	103	93	75 - 125	
Nickel	2.1		102	103	99	75 - 125	
Zinc	6.2		102	101	93	75 - 125	

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-91960

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-61	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91960	Lab File ID:	145_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.20 g
Analysis Date:	11/02/2011 0058			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

MSD Lab Sample ID:	280-21683-61	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91960	Lab File ID:	146_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.01 g
Analysis Date:	11/02/2011 0101			Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	17	18	82 - 110	25	20	Q J	Q J
Copper	102	96	87 - 125	11	20		
Lead	105	97	81 - 125	7	20		
Nickel	103	96	90 - 113	10	20		
Zinc	101	92	85 - 119	6	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-91960

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-61	Units:	mg/Kg	MSD Lab Sample ID:	280-21683-61
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/02/2011 0058			Analysis Date:	11/02/2011 0101
Prep Date:	11/01/2011 0530			Prep Date:	11/01/2011 0530
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.025	J	19.0	22.6	3.21	Q J	4.14	Q J
Copper	2.1	J	19.0	22.6	21.5		23.9	
Lead	8.3		19.0	22.6	28.3		30.3	
Nickel	2.1		19.0	22.6	21.6		23.8	
Zinc	6.2		19.0	22.6	25.3		26.9	

Client: UXB International, Inc. Job Number: 280-21683-1

Serial Dilution - Batch: 280-91960

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21683-61	Analysis Batch:	280-94332	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91960	Lab File ID:	143SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.12 g
Analysis Date:	11/02/2011 0052	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/01/2011 0530				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.025	J	0.20	NC	10	U Q
Copper	2.1	J	2.28	NC	10	J D
Lead	8.3		8.51	2.9	10	D
Nickel	2.1		2.00	2.7	10	D
Zinc	6.2		6.43	NC	10	J D

Client: UXB International, Inc. Job Number: 280-21683-1

Method Blank - Batch: 280-91961 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	MB 280-91961/1-A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91961	Lab File ID:	081_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.12 g
Analysis Date:	11/03/2011 0145	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.036	U Q	0.013	0.18
Copper	0.18	U	0.063	2.2
Lead	0.045	U	0.016	0.089
Nickel	0.067	U	0.023	0.31
Zinc	0.80	U	0.28	2.2

Lab Control Sample - Batch: 280-91961 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	LCS 280-91961/2-A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91961	Lab File ID:	082_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	11/03/2011 0148	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	18.9	17.5	93	82 - 110	Q
Copper	18.9	18.9	100	87 - 125	
Lead	18.9	18.6	98	81 - 125	
Nickel	18.9	19.5	104	90 - 113	
Zinc	18.9	18.1	96	85 - 119	

Post Digestion Spike - Batch: 280-91961 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	280-21683-81	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91961	Lab File ID:	085PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.17 g
Analysis Date:	11/03/2011 0157	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.018	J	97.7	92.9	95	75 - 125	Q
Copper	1.2	J	97.7	96.6	98	75 - 125	
Lead	7.8		97.7	99.5	94	75 - 125	
Nickel	1.7		97.7	104	105	75 - 125	
Zinc	8.1		97.7	99.3	93	75 - 125	

Client: UXB International, Inc. | Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-91961

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-81	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91961	Lab File ID:	086_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	11/03/2011 0200			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-21683-81	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91961	Lab File ID:	087_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.11 g
Analysis Date:	11/03/2011 0203			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	17	15	82 - 110	21	20	Q J	Q J
Copper	102	98	87 - 125	12	20		
Lead	95	90	81 - 125	10	20		
Nickel	108	103	90 - 113	12	20		
Zinc	110	97	85 - 119	15	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-91961

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-81	Units:	mg/Kg	MSD Lab Sample ID:	280-21683-81
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/03/2011 0200			Analysis Date:	11/03/2011 0203
Prep Date:	11/02/2011 1800			Prep Date:	11/02/2011 1800
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.018	J	22.4	20.6	3.83	Q J	3.11	Q J
Copper	1.2	J	22.4	20.6	24.2		21.5	
Lead	7.8		22.4	20.6	29.1		26.3	
Nickel	1.7		22.4	20.6	25.8		22.9	
Zinc	8.1		22.4	20.6	32.8		28.2	

Client: UXB International, Inc. Job Number: 280-21683-1

Serial Dilution - Batch: 280-91961

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21683-81	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-91961	Lab File ID:	084SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.17 g
Analysis Date:	11/03/2011 0154	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.018	J	0.20	NC	10	U Q
Copper	1.2	J	1.22	NC	10	J D
Lead	7.8		7.91	2.1	10	D
Nickel	1.7		1.69	1.7	10	J D
Zinc	8.1		8.27	NC	10	J D

Client: UXB International, Inc. Job Number: 280-21683-1

Method Blank - Batch: 280-94043 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	MB 280-94043/1-A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94043	Lab File ID:	019_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.52 g
Analysis Date:	11/02/2011 2246	Units:	mg/Kg	Final Weight/Volume:	500 mL
Prep Date:	11/02/2011 1400				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.038	U Q	0.0067	0.19
Copper	0.19	U	0.034	2.4
Lead	0.0118	J	0.0087	0.095
Nickel	0.071	U	0.012	0.33
Zinc	0.86	U	0.15	2.4

Lab Control Sample - Batch: 280-94043 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	LCS 280-94043/2-A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94043	Lab File ID:	020_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.17 g
Analysis Date:	11/02/2011 2249	Units:	mg/Kg	Final Weight/Volume:	500 mL
Prep Date:	11/02/2011 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	9.83	9.26	94	82 - 110	Q
Copper	9.83	9.72	99	87 - 125	
Lead	9.83	9.85	100	81 - 125	
Nickel	9.83	9.84	100	90 - 113	
Zinc	9.83	9.41	96	85 - 119	

Post Digestion Spike - Batch: 280-94043 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	280-21683-76	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94043	Lab File ID:	030PDS.D
Dilution:	1.0	Leach Batch:	280-92117	Initial Weight/Volume:	10.47 g
Analysis Date:	11/02/2011 2318	Units:	mg/Kg	Final Weight/Volume:	500 mL
Prep Date:	11/02/2011 1400				
Leach Date:	10/19/2011 2323				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.028	J	47.8	46.1	96	75 - 125	Q
Copper	2.4		47.8	49.9	99	75 - 125	
Lead	14		47.8	59.6	96	75 - 125	
Nickel	1.5		47.8	52.0	106	75 - 125	
Zinc	10		47.8	55.6	95	75 - 125	

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94043

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-76	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94043	Lab File ID:	031_MS.D
Dilution:	1.0	Leach Batch:	280-92117	Initial Weight/Volume:	10.49 g
Analysis Date:	11/02/2011 2321			Final Weight/Volume:	500 mL
Prep Date:	11/02/2011 1400				
Leach Date:	10/19/2011 2323				

MSD Lab Sample ID:	280-21683-76	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94043	Lab File ID:	032_MSD.D
Dilution:	1.0	Leach Batch:	280-92117	Initial Weight/Volume:	10.51 g
Analysis Date:	11/02/2011 2324			Final Weight/Volume:	500 mL
Prep Date:	11/02/2011 1400				
Leach Date:	10/19/2011 2323				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	13	14	82 - 110	3	20	Q J	Q J
Copper	92	97	87 - 125	4	20		
Lead	92	92	81 - 125	0	20		
Nickel	96	98	90 - 113	1	20		
Zinc	87	92	85 - 119	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94043

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-76	Units:	mg/Kg	MSD Lab Sample ID:	280-21683-76
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/02/2011 2321			Analysis Date:	11/02/2011 2324
Prep Date:	11/02/2011 1400			Prep Date:	11/02/2011 1400
Leach Date:	10/19/2011 2323			Leach Date:	10/19/2011 2323

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.028	J	9.53	9.51	1.31	Q J	1.35	Q J
Copper	2.4		9.53	9.51	11.2		11.7	
Lead	14		9.53	9.51	22.6		22.6	
Nickel	1.5		9.53	9.51	10.6		10.8	
Zinc	10		9.53	9.51	18.3		18.7	

Client: UXB International, Inc. Job Number: 280-21683-1

Serial Dilution - Batch: 280-94043

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21683-76	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94043	Lab File ID:	029SDIL.D
Dilution:	5.0	Leach Batch:	280-92117	Initial Weight/Volume:	10.47 g
Analysis Date:	11/02/2011 2315	Units:	mg/Kg	Final Weight/Volume:	500 mL
Prep Date:	11/02/2011 1400				
Leach Date:	10/19/2011 2323				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.028	J	0.19	NC	10	U Q
Copper	2.4		2.43	1.1	10	J D
Lead	14		13.8	0.83	10	D
Nickel	1.5		1.50	2.6	10	J D
Zinc	10		10.3	2.9	10	J D

Client: UXB International, Inc. Job Number: 280-21683-1

Method Blank - Batch: 280-94294

Method: 6020A
Preparation: 3050B

Lab Sample ID:	MB 280-94294/1-A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94294	Lab File ID:	049_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	11/03/2011 0012	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Zinc	0.83	U	0.29	2.3

Lab Control Sample - Batch: 280-94294

Method: 6020A
Preparation: 3050B

Lab Sample ID:	LCS 280-94294/2-A	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94294	Lab File ID:	050_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	11/03/2011 0015	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Zinc	18.3	17.5	95	85 - 119	

Post Digestion Spike - Batch: 280-94294

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21683-1	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94294	Lab File ID:	053PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	11/03/2011 0024	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Zinc	9.3	109	115	97	75 - 125	

Client: UXB International, Inc. Job Number: 280-21683-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94294

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-1	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94294	Lab File ID:	054_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	11/03/2011 0027			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				
Leach Date:	N/A				

MSD Lab Sample ID:	280-21683-1	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94294	Lab File ID:	055_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	11/03/2011 0030			Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				
Leach Date:	N/A				

Analyte	% Rec. MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Zinc	88	98	85 - 119	9	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94294

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21683-1	Units:	mg/Kg	MSD Lab Sample ID:	280-21683-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/03/2011 0027			Analysis Date:	11/03/2011 0030
Prep Date:	11/02/2011 1800			Prep Date:	11/02/2011 1800
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Zinc	9.3	21.2	21.8	28.0	30.7

Serial Dilution - Batch: 280-94294

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21683-1	Analysis Batch:	280-94600	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94294	Lab File ID:	052SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	11/03/2011 0021	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/02/2011 1800				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Zinc	9.3	9.40	NC	10	J D

Client: UXB International, Inc. Job Number: 280-21683-1

Duplicate - Batch: 280-91906 **Method: Moisture**
Preparation: N/A

Lab Sample ID:	280-21683-35	Analysis Batch:	280-91906	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	10/19/2011 1222	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	11	11	4	20	
Percent Solids	89	89	0.5	20	

Duplicate - Batch: 280-91906 **Method: Moisture**
Preparation: N/A

Lab Sample ID:	280-21683-93	Analysis Batch:	280-91906	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	10/19/2011 1222	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	6.9	6.8	3	20	
Percent Solids	93	93	0.2	20	

Client: UXB International, Inc. Job Number: 280-21683-1

Duplicate - Batch: 280-92133 **Method: Moisture**
Preparation: N/A

Lab Sample ID:	280-21683-24	Analysis Batch:	280-92133	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	10/20/2011 0741	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	10	9.8	3	20	
Percent Solids	90	90	0.3	20	

Duplicate - Batch: 280-92133 **Method: Moisture**
Preparation: N/A

Lab Sample ID:	280-21683-81	Analysis Batch:	280-92133	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	10/20/2011 0741	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	13	12	8	20	
Percent Solids	87	88	1	20	

DATA REPORTING QUALIFIERS

Client: UXB International, Inc. Job Number: 280-21683-1

Lab Section	Qualifier	Description
Metals		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	Q	One or more quality control criteria failed.
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.
LCMS		
	M	Manual integrated compound.
	Q	One or more quality control criteria failed.
	U	Undetected at the Limit of Detection.

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-91954					
LCS 280-91954/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-91954/1-A	Method Blank	T	Solid	3050B	
280-21683-1	MG26 SB104	T	Solid	3050B	
280-21683-1MS	Matrix Spike	T	Solid	3050B	
280-21683-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-21683-5	MG20 SB090	T	Solid	3050B	
280-21683-6	MG20 SB091	T	Solid	3050B	
280-21683-7	MG22 SB094	T	Solid	3050B	
280-21683-8	MG22 SB095	T	Solid	3050B	
280-21683-9	MG22 SB096	T	Solid	3050B	
280-21683-10	MG27 SB107	T	Solid	3050B	
280-21683-11	MG27 SB106	T	Solid	3050B	
280-21683-12	MG25 SB102	T	Solid	3050B	
280-21683-13	MG23 SB099	T	Solid	3050B	
280-21683-14	MG25 SB103	T	Solid	3050B	
280-21683-15	MG23 SB098	T	Solid	3050B	
280-21683-16	MG21 SB093	T	Solid	3050B	
280-21683-17	MG24 SB100	T	Solid	3050B	
280-21683-18	MG21 SB092	T	Solid	3050B	
280-21683-19	MG35 SB123	T	Solid	3050B	
280-21683-20	MG26 SB105	T	Solid	3050B	

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-91956					
LCS 280-91956/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-91956/1-A	Method Blank	T	Solid	3050B	
280-21683-21	MG24 SB101	T	Solid	3050B	
280-21683-21MS	Matrix Spike	T	Solid	3050B	
280-21683-21MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-21683-22	MG35 SB124	T	Solid	3050B	
280-21683-23	MG35 SB125	T	Solid	3050B	
280-21683-24	MG36 SB126	T	Solid	3050B	
280-21683-25	MG36 SB127	T	Solid	3050B	
280-21683-26	MG32 SB115	T	Solid	3050B	
280-21683-27	MG32 SB116	T	Solid	3050B	
280-21683-28	MG33 SB117	T	Solid	3050B	
280-21683-29	MG33 SB119	T	Solid	3050B	
280-21683-30	MG33 SB118	T	Solid	3050B	
280-21683-31	MG34 SB121	T	Solid	3050B	
280-21683-32	MG34 SB122	T	Solid	3050B	
280-21683-33	MG31 SB113	T	Solid	3050B	
280-21683-34	MG31 SB114	T	Solid	3050B	
280-21683-35	MG30 SB111	T	Solid	3050B	
280-21683-36	MG30 SB112	T	Solid	3050B	
280-21683-37	MG29 SB109	T	Solid	3050B	
280-21683-38	MG29 SB110	T	Solid	3050B	
280-21683-39	MG06 SB062	T	Solid	3050B	
280-21683-40	MG06 SB063	T	Solid	3050B	

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-91958					
LCS 280-91958/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-91958/1-A	Method Blank	T	Solid	3050B	
280-21683-41	MG06 SB064	T	Solid	3050B	
280-21683-41MS	Matrix Spike	T	Solid	3050B	
280-21683-41MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-21683-42	MG05 SB060	T	Solid	3050B	
280-21683-43	MG05 SB061	T	Solid	3050B	
280-21683-44	MG04 SB058	T	Solid	3050B	
280-21683-45	MG04 SB059	T	Solid	3050B	
280-21683-46	MG03 SB056	T	Solid	3050B	
280-21683-47	MG03 SB057	T	Solid	3050B	
280-21683-48	MG02 SB054	T	Solid	3050B	
280-21683-49	MG02 SB055	T	Solid	3050B	
280-21683-50	MG15 SB081	T	Solid	3050B	
280-21683-51	MG15 SB082	T	Solid	3050B	
280-21683-52	MG12 SB073	T	Solid	3050B	
280-21683-53	MG12 SB075	T	Solid	3050B	
280-21683-54	MG12 SB074	T	Solid	3050B	
280-21683-55	MG11 SB071	T	Solid	3050B	
280-21683-56	MG11 SB072	T	Solid	3050B	
280-21683-57	MG14 SB079	T	Solid	3050B	
280-21683-58	MG14 SB080	T	Solid	3050B	
280-21683-59	MG13 SB077	T	Solid	3050B	
280-21683-60	MG13 SB078	T	Solid	3050B	

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-91960					
LCS 280-91960/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-91960/1-A	Method Blank	T	Solid	3050B	
280-21683-61	MG16 SB083	T	Solid	3050B	
280-21683-61MS	Matrix Spike	T	Solid	3050B	
280-21683-61MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-21683-62	MG16 SB084	T	Solid	3050B	
280-21683-63	MG09 SB069	T	Solid	3050B	
280-21683-64	MG09 SB070	T	Solid	3050B	
280-21683-65	MG08 SB067	T	Solid	3050B	
280-21683-66	MG08 SB068	T	Solid	3050B	
280-21683-67	MG07 SB065	T	Solid	3050B	
280-21683-68	MG07 SB066	T	Solid	3050B	
280-21683-69	MG17 SB085	T	Solid	3050B	
280-21683-70	MG17 SB086	T	Solid	3050B	
280-21683-71	MG17 SB087	T	Solid	3050B	
280-21683-72	MG18 SB088	T	Solid	3050B	
280-21683-73	MG18 SB089	T	Solid	3050B	
280-21683-77	CP10 SB014	T	Solid	3050B	
280-21683-78	CP10 SB015	T	Solid	3050B	
280-21683-79	CP09 SB012	T	Solid	3050B	
280-21683-80	CP09 SB013	T	Solid	3050B	
Prep Batch: 280-91961					
LCS 280-91961/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-91961/1-A	Method Blank	T	Solid	3050B	
280-21683-81	CP08 SB009	T	Solid	3050B	
280-21683-81MS	Matrix Spike	T	Solid	3050B	
280-21683-81MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-21683-82	CP08 SB010	T	Solid	3050B	
280-21683-83	CP08 SB011	T	Solid	3050B	
280-21683-84	CP11 SB16A	T	Solid	3050B	
280-21683-85	CP11 SB16B	T	Solid	3050B	
280-21683-86	CP07 SB007	T	Solid	3050B	
280-21683-87	CP07 SB008	T	Solid	3050B	
280-21683-88	CP04 SB001	T	Solid	3050B	
280-21683-89	CP04 SB002	T	Solid	3050B	
280-21683-90	CP06 SB005	T	Solid	3050B	
280-21683-91	CP06 SB006	T	Solid	3050B	
280-21683-92	CP05 SB003	T	Solid	3050B	
280-21683-93	CP05 SB004	T	Solid	3050B	
280-21683-94	CP12 SB017	T	Solid	3050B	
280-21683-95	CP12 SB018	T	Solid	3050B	

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-92117					
280-21683-2	MG19 IS016	T	Solid	Increm, Prep	
280-21683-3	MG19 IS017	T	Solid	Increm, Prep	
280-21683-4	MG19 IS018	T	Solid	Increm, Prep	
280-21683-74	CP01 IS01	T	Solid	Increm, Prep	
280-21683-75	CP01 IS02	T	Solid	Increm, Prep	
280-21683-76	CP01 IS03	T	Solid	Increm, Prep	
280-21683-76MS	Matrix Spike	T	Solid	Increm, Prep	
280-21683-76MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
Prep Batch: 280-94043					
LCS 280-94043/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-94043/1-A	Method Blank	T	Solid	3050B	
280-21683-2	MG19 IS016	T	Solid	3050B	280-92117
280-21683-3	MG19 IS017	T	Solid	3050B	280-92117
280-21683-4	MG19 IS018	T	Solid	3050B	280-92117
280-21683-74	CP01 IS01	T	Solid	3050B	280-92117
280-21683-75	CP01 IS02	T	Solid	3050B	280-92117
280-21683-76	CP01 IS03	T	Solid	3050B	280-92117
280-21683-76MS	Matrix Spike	T	Solid	3050B	280-92117
280-21683-76MSD	Matrix Spike Duplicate	T	Solid	3050B	280-92117
Prep Batch: 280-94294					
LCS 280-94294/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-94294/1-A	Method Blank	T	Solid	3050B	
280-21683-1	MG26 SB104	T	Solid	3050B	
280-21683-1MS	Matrix Spike	T	Solid	3050B	
280-21683-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-21683-5	MG20 SB090	T	Solid	3050B	
280-21683-6	MG20 SB091	T	Solid	3050B	
280-21683-7	MG22 SB094	T	Solid	3050B	
280-21683-8	MG22 SB095	T	Solid	3050B	
280-21683-9	MG22 SB096	T	Solid	3050B	
280-21683-10	MG27 SB107	T	Solid	3050B	
280-21683-11	MG27 SB106	T	Solid	3050B	
280-21683-12	MG25 SB102	T	Solid	3050B	
280-21683-13	MG23 SB099	T	Solid	3050B	
280-21683-14	MG25 SB103	T	Solid	3050B	
280-21683-15	MG23 SB098	T	Solid	3050B	
280-21683-16	MG21 SB093	T	Solid	3050B	
280-21683-17	MG24 SB100	T	Solid	3050B	
280-21683-18	MG21 SB092	T	Solid	3050B	
280-21683-19	MG35 SB123	T	Solid	3050B	
280-21683-20	MG26 SB105	T	Solid	3050B	

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-94332					
LCS 280-91954/2-A	Lab Control Sample	T	Solid	6020A	280-91954
MB 280-91954/1-A	Method Blank	T	Solid	6020A	280-91954
LCS 280-91956/2-A	Lab Control Sample	T	Solid	6020A	280-91956
MB 280-91956/1-A	Method Blank	T	Solid	6020A	280-91956
LCS 280-91958/2-A	Lab Control Sample	T	Solid	6020A	280-91958
MB 280-91958/1-A	Method Blank	T	Solid	6020A	280-91958
LCS 280-91960/2-A	Lab Control Sample	T	Solid	6020A	280-91960
MB 280-91960/1-A	Method Blank	T	Solid	6020A	280-91960
280-21683-1	MG26 SB104	T	Solid	6020A	280-91954
280-21683-1MS	Matrix Spike	T	Solid	6020A	280-91954
280-21683-1MSD	Matrix Spike Duplicate	T	Solid	6020A	280-91954
280-21683-5	MG20 SB090	T	Solid	6020A	280-91954
280-21683-6	MG20 SB091	T	Solid	6020A	280-91954
280-21683-7	MG22 SB094	T	Solid	6020A	280-91954
280-21683-8	MG22 SB095	T	Solid	6020A	280-91954
280-21683-9	MG22 SB096	T	Solid	6020A	280-91954
280-21683-10	MG27 SB107	T	Solid	6020A	280-91954
280-21683-11	MG27 SB106	T	Solid	6020A	280-91954
280-21683-12	MG25 SB102	T	Solid	6020A	280-91954
280-21683-13	MG23 SB099	T	Solid	6020A	280-91954
280-21683-14	MG25 SB103	T	Solid	6020A	280-91954
280-21683-15	MG23 SB098	T	Solid	6020A	280-91954
280-21683-16	MG21 SB093	T	Solid	6020A	280-91954
280-21683-17	MG24 SB100	T	Solid	6020A	280-91954
280-21683-18	MG21 SB092	T	Solid	6020A	280-91954
280-21683-19	MG35 SB123	T	Solid	6020A	280-91954
280-21683-20	MG26 SB105	T	Solid	6020A	280-91954
280-21683-21	MG24 SB101	T	Solid	6020A	280-91956
280-21683-21MS	Matrix Spike	T	Solid	6020A	280-91956
280-21683-21MSD	Matrix Spike Duplicate	T	Solid	6020A	280-91956
280-21683-22	MG35 SB124	T	Solid	6020A	280-91956
280-21683-23	MG35 SB125	T	Solid	6020A	280-91956
280-21683-24	MG36 SB126	T	Solid	6020A	280-91956
280-21683-25	MG36 SB127	T	Solid	6020A	280-91956
280-21683-26	MG32 SB115	T	Solid	6020A	280-91956
280-21683-27	MG32 SB116	T	Solid	6020A	280-91956
280-21683-28	MG33 SB117	T	Solid	6020A	280-91956
280-21683-29	MG33 SB119	T	Solid	6020A	280-91956
280-21683-30	MG33 SB118	T	Solid	6020A	280-91956
280-21683-31	MG34 SB121	T	Solid	6020A	280-91956
280-21683-32	MG34 SB122	T	Solid	6020A	280-91956
280-21683-33	MG31 SB113	T	Solid	6020A	280-91956
280-21683-34	MG31 SB114	T	Solid	6020A	280-91956
280-21683-35	MG30 SB111	T	Solid	6020A	280-91956
280-21683-36	MG30 SB112	T	Solid	6020A	280-91956
280-21683-37	MG29 SB109	T	Solid	6020A	280-91956

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-94332					
280-21683-38	MG29 SB110	T	Solid	6020A	280-91956
280-21683-39	MG06 SB062	T	Solid	6020A	280-91956
280-21683-40	MG06 SB063	T	Solid	6020A	280-91956
280-21683-41	MG06 SB064	T	Solid	6020A	280-91958
280-21683-41MS	Matrix Spike	T	Solid	6020A	280-91958
280-21683-41MSD	Matrix Spike Duplicate	T	Solid	6020A	280-91958
280-21683-42	MG05 SB060	T	Solid	6020A	280-91958
280-21683-43	MG05 SB061	T	Solid	6020A	280-91958
280-21683-44	MG04 SB058	T	Solid	6020A	280-91958
280-21683-45	MG04 SB059	T	Solid	6020A	280-91958
280-21683-46	MG03 SB056	T	Solid	6020A	280-91958
280-21683-47	MG03 SB057	T	Solid	6020A	280-91958
280-21683-48	MG02 SB054	T	Solid	6020A	280-91958
280-21683-49	MG02 SB055	T	Solid	6020A	280-91958
280-21683-50	MG15 SB081	T	Solid	6020A	280-91958
280-21683-51	MG15 SB082	T	Solid	6020A	280-91958
280-21683-52	MG12 SB073	T	Solid	6020A	280-91958
280-21683-53	MG12 SB075	T	Solid	6020A	280-91958
280-21683-54	MG12 SB074	T	Solid	6020A	280-91958
280-21683-55	MG11 SB071	T	Solid	6020A	280-91958
280-21683-56	MG11 SB072	T	Solid	6020A	280-91958
280-21683-57	MG14 SB079	T	Solid	6020A	280-91958
280-21683-58	MG14 SB080	T	Solid	6020A	280-91958
280-21683-59	MG13 SB077	T	Solid	6020A	280-91958
280-21683-60	MG13 SB078	T	Solid	6020A	280-91958
280-21683-61	MG16 SB083	T	Solid	6020A	280-91960
280-21683-61MS	Matrix Spike	T	Solid	6020A	280-91960
280-21683-61MSD	Matrix Spike Duplicate	T	Solid	6020A	280-91960
280-21683-62	MG16 SB084	T	Solid	6020A	280-91960
280-21683-63	MG09 SB069	T	Solid	6020A	280-91960
280-21683-64	MG09 SB070	T	Solid	6020A	280-91960
280-21683-65	MG08 SB067	T	Solid	6020A	280-91960
280-21683-66	MG08 SB068	T	Solid	6020A	280-91960
280-21683-67	MG07 SB065	T	Solid	6020A	280-91960
280-21683-68	MG07 SB066	T	Solid	6020A	280-91960
280-21683-69	MG17 SB085	T	Solid	6020A	280-91960
280-21683-70	MG17 SB086	T	Solid	6020A	280-91960
280-21683-71	MG17 SB087	T	Solid	6020A	280-91960
280-21683-72	MG18 SB088	T	Solid	6020A	280-91960
280-21683-73	MG18 SB089	T	Solid	6020A	280-91960
280-21683-77	CP10 SB014	T	Solid	6020A	280-91960
280-21683-78	CP10 SB015	T	Solid	6020A	280-91960
280-21683-79	CP09 SB012	T	Solid	6020A	280-91960
280-21683-80	CP09 SB013	T	Solid	6020A	280-91960

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-94600					
LCS 280-91961/2-A	Lab Control Sample	T	Solid	6020A	280-91961
MB 280-91961/1-A	Method Blank	T	Solid	6020A	280-91961
LCS 280-94043/2-A	Lab Control Sample	T	Solid	6020A	280-94043
MB 280-94043/1-A	Method Blank	T	Solid	6020A	280-94043
LCS 280-94294/2-A	Lab Control Sample	T	Solid	6020A	280-94294
MB 280-94294/1-A	Method Blank	T	Solid	6020A	280-94294
280-21683-1	MG26 SB104	T	Solid	6020A	280-94294
280-21683-1MS	Matrix Spike	T	Solid	6020A	280-94294
280-21683-1MSD	Matrix Spike Duplicate	T	Solid	6020A	280-94294
280-21683-2	MG19 IS016	T	Solid	6020A	280-94043
280-21683-3	MG19 IS017	T	Solid	6020A	280-94043
280-21683-4	MG19 IS018	T	Solid	6020A	280-94043
280-21683-5	MG20 SB090	T	Solid	6020A	280-94294
280-21683-6	MG20 SB091	T	Solid	6020A	280-94294
280-21683-7	MG22 SB094	T	Solid	6020A	280-94294
280-21683-8	MG22 SB095	T	Solid	6020A	280-94294
280-21683-9	MG22 SB096	T	Solid	6020A	280-94294
280-21683-10	MG27 SB107	T	Solid	6020A	280-94294
280-21683-11	MG27 SB106	T	Solid	6020A	280-94294
280-21683-12	MG25 SB102	T	Solid	6020A	280-94294
280-21683-13	MG23 SB099	T	Solid	6020A	280-94294
280-21683-14	MG25 SB103	T	Solid	6020A	280-94294
280-21683-15	MG23 SB098	T	Solid	6020A	280-94294
280-21683-16	MG21 SB093	T	Solid	6020A	280-94294
280-21683-17	MG24 SB100	T	Solid	6020A	280-94294
280-21683-18	MG21 SB092	T	Solid	6020A	280-94294
280-21683-19	MG35 SB123	T	Solid	6020A	280-94294
280-21683-20	MG26 SB105	T	Solid	6020A	280-94294
280-21683-74	CP01 IS01	T	Solid	6020A	280-94043
280-21683-75	CP01 IS02	T	Solid	6020A	280-94043
280-21683-76	CP01 IS03	T	Solid	6020A	280-94043
280-21683-76MS	Matrix Spike	T	Solid	6020A	280-94043
280-21683-76MSD	Matrix Spike Duplicate	T	Solid	6020A	280-94043
280-21683-81	CP08 SB009	T	Solid	6020A	280-91961
280-21683-81MS	Matrix Spike	T	Solid	6020A	280-91961
280-21683-81MSD	Matrix Spike Duplicate	T	Solid	6020A	280-91961
280-21683-82	CP08 SB010	T	Solid	6020A	280-91961
280-21683-83	CP08 SB011	T	Solid	6020A	280-91961
280-21683-84	CP11 SB16A	T	Solid	6020A	280-91961
280-21683-85	CP11 SB16B	T	Solid	6020A	280-91961
280-21683-86	CP07 SB007	T	Solid	6020A	280-91961
280-21683-87	CP07 SB008	T	Solid	6020A	280-91961
280-21683-88	CP04 SB001	T	Solid	6020A	280-91961
280-21683-89	CP04 SB002	T	Solid	6020A	280-91961
280-21683-90	CP06 SB005	T	Solid	6020A	280-91961
280-21683-91	CP06 SB006	T	Solid	6020A	280-91961

Client: UXB International, Inc.

Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-94600					
280-21683-92	CP05 SB003	T	Solid	6020A	280-91961
280-21683-93	CP05 SB004	T	Solid	6020A	280-91961
280-21683-94	CP12 SB017	T	Solid	6020A	280-91961
280-21683-95	CP12 SB018	T	Solid	6020A	280-91961

Report Basis

T = Total

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-91878					
280-21683-53	MG12 SB075	T	Solid	Increm, Prep	
280-21683-54	MG12 SB074	T	Solid	Increm, Prep	
280-21683-54MS	Matrix Spike	T	Solid	Increm, Prep	
280-21683-54MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
280-21683-55	MG11 SB071	T	Solid	Increm, Prep	
280-21683-56	MG11 SB072	T	Solid	Increm, Prep	
280-21683-57	MG14 SB079	T	Solid	Increm, Prep	
280-21683-58	MG14 SB080	T	Solid	Increm, Prep	
280-21683-59	MG13 SB077	T	Solid	Increm, Prep	
280-21683-60	MG13 SB078	T	Solid	Increm, Prep	
280-21683-61	MG16 SB083	T	Solid	Increm, Prep	
280-21683-62	MG16 SB084	T	Solid	Increm, Prep	
280-21683-63	MG09 SB069	T	Solid	Increm, Prep	
280-21683-64	MG09 SB070	T	Solid	Increm, Prep	
280-21683-65	MG08 SB067	T	Solid	Increm, Prep	
280-21683-66	MG08 SB068	T	Solid	Increm, Prep	
280-21683-67	MG07 SB065	T	Solid	Increm, Prep	
280-21683-68	MG07 SB066	T	Solid	Increm, Prep	
280-21683-69	MG17 SB085	T	Solid	Increm, Prep	
280-21683-70	MG17 SB086	T	Solid	Increm, Prep	
280-21683-71	MG17 SB087	T	Solid	Increm, Prep	
280-21683-72	MG18 SB088	T	Solid	Increm, Prep	

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-91879					
280-21683-73	MG18 SB089	T	Solid	Increm, Prep	
280-21683-77	CP10 SB014	T	Solid	Increm, Prep	
280-21683-78	CP10 SB015	T	Solid	Increm, Prep	
280-21683-79	CP09 SB012	T	Solid	Increm, Prep	
280-21683-80	CP09 SB013	T	Solid	Increm, Prep	
280-21683-80MS	Matrix Spike	T	Solid	Increm, Prep	
280-21683-80MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
280-21683-81	CP08 SB009	T	Solid	Increm, Prep	
280-21683-82	CP08 SB010	T	Solid	Increm, Prep	
280-21683-83	CP08 SB011	T	Solid	Increm, Prep	
280-21683-84	CP11 SB16A	T	Solid	Increm, Prep	
280-21683-85	CP11 SB16B	T	Solid	Increm, Prep	
280-21683-86	CP07 SB007	T	Solid	Increm, Prep	
280-21683-87	CP07 SB008	T	Solid	Increm, Prep	
280-21683-88	CP04 SB001	T	Solid	Increm, Prep	
280-21683-89	CP04 SB002	T	Solid	Increm, Prep	
280-21683-90	CP06 SB005	T	Solid	Increm, Prep	
280-21683-91	CP06 SB006	T	Solid	Increm, Prep	
280-21683-92	CP05 SB003	T	Solid	Increm, Prep	
280-21683-93	CP05 SB004	T	Solid	Increm, Prep	
280-21683-94	CP12 SB017	T	Solid	Increm, Prep	
280-21683-95	CP12 SB018	T	Solid	Increm, Prep	
Prep Batch: 280-91880					
280-21683-1	MG26 SB104	T	Solid	Increm, Prep	
280-21683-5	MG20 SB090	T	Solid	Increm, Prep	
280-21683-6	MG20 SB091	T	Solid	Increm, Prep	
280-21683-7	MG22 SB094	T	Solid	Increm, Prep	
280-21683-8	MG22 SB095	T	Solid	Increm, Prep	
280-21683-9	MG22 SB096	T	Solid	Increm, Prep	
280-21683-10	MG27 SB107	T	Solid	Increm, Prep	
280-21683-11	MG27 SB106	T	Solid	Increm, Prep	
280-21683-11MS	Matrix Spike	T	Solid	Increm, Prep	
280-21683-11MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
280-21683-12	MG25 SB102	T	Solid	Increm, Prep	

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-91881					
280-21683-33	MG31 SB113	T	Solid	Increm, Prep	
280-21683-34	MG31 SB114	T	Solid	Increm, Prep	
280-21683-35	MG30 SB111	T	Solid	Increm, Prep	
280-21683-36	MG30 SB112	T	Solid	Increm, Prep	
280-21683-37	MG29 SB109	T	Solid	Increm, Prep	
280-21683-38	MG29 SB110	T	Solid	Increm, Prep	
280-21683-39	MG06 SB062	T	Solid	Increm, Prep	
280-21683-40	MG06 SB063	T	Solid	Increm, Prep	
280-21683-41	MG06 SB064	T	Solid	Increm, Prep	
280-21683-42	MG05 SB060	T	Solid	Increm, Prep	
280-21683-43	MG05 SB061	T	Solid	Increm, Prep	
280-21683-44	MG04 SB058	T	Solid	Increm, Prep	
280-21683-45	MG04 SB059	T	Solid	Increm, Prep	
280-21683-46	MG03 SB056	T	Solid	Increm, Prep	
280-21683-47	MG03 SB057	T	Solid	Increm, Prep	
280-21683-47MS	Matrix Spike	T	Solid	Increm, Prep	
280-21683-47MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
280-21683-48	MG02 SB054	T	Solid	Increm, Prep	
280-21683-49	MG02 SB055	T	Solid	Increm, Prep	
280-21683-50	MG15 SB081	T	Solid	Increm, Prep	
280-21683-51	MG15 SB082	T	Solid	Increm, Prep	
280-21683-52	MG12 SB073	T	Solid	Increm, Prep	

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-91882					
280-21683-13	MG23 SB099	T	Solid	Increm, Prep	
280-21683-14	MG25 SB103	T	Solid	Increm, Prep	
280-21683-15	MG23 SB098	T	Solid	Increm, Prep	
280-21683-16	MG21 SB093	T	Solid	Increm, Prep	
280-21683-17	MG24 SB100	T	Solid	Increm, Prep	
280-21683-18	MG21 SB092	T	Solid	Increm, Prep	
280-21683-18MS	Matrix Spike	T	Solid	Increm, Prep	
280-21683-18MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
280-21683-19	MG35 SB123	T	Solid	Increm, Prep	
280-21683-20	MG26 SB105	T	Solid	Increm, Prep	
280-21683-21	MG24 SB101	T	Solid	Increm, Prep	
280-21683-22	MG35 SB124	T	Solid	Increm, Prep	
280-21683-23	MG35 SB125	T	Solid	Increm, Prep	
280-21683-24	MG36 SB126	T	Solid	Increm, Prep	
280-21683-25	MG36 SB127	T	Solid	Increm, Prep	
280-21683-26	MG32 SB115	T	Solid	Increm, Prep	
280-21683-27	MG32 SB116	T	Solid	Increm, Prep	
280-21683-28	MG33 SB117	T	Solid	Increm, Prep	
280-21683-29	MG33 SB119	T	Solid	Increm, Prep	
280-21683-30	MG33 SB118	T	Solid	Increm, Prep	
280-21683-31	MG34 SB121	T	Solid	Increm, Prep	
280-21683-32	MG34 SB122	T	Solid	Increm, Prep	

Client: UXB International, Inc.　　　　Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-92097					
LCS 280-92097/2-A	Lab Control Sample	T	Solid	8330B	
MB 280-92097/1-A	Method Blank	T	Solid	8330B	
280-21683-53	MG12 SB075	T	Solid	8330B	280-91878
280-21683-54	MG12 SB074	T	Solid	8330B	280-91878
280-21683-54MS	Matrix Spike	T	Solid	8330B	280-91878
280-21683-54MSD	Matrix Spike Duplicate	T	Solid	8330B	280-91878
280-21683-55	MG11 SB071	T	Solid	8330B	280-91878
280-21683-56	MG11 SB072	T	Solid	8330B	280-91878
280-21683-57	MG14 SB079	T	Solid	8330B	280-91878
280-21683-58	MG14 SB080	T	Solid	8330B	280-91878
280-21683-59	MG13 SB077	T	Solid	8330B	280-91878
280-21683-60	MG13 SB078	T	Solid	8330B	280-91878
280-21683-61	MG16 SB083	T	Solid	8330B	280-91878
280-21683-62	MG16 SB084	T	Solid	8330B	280-91878
280-21683-63	MG09 SB069	T	Solid	8330B	280-91878
280-21683-64	MG09 SB070	T	Solid	8330B	280-91878
280-21683-65	MG08 SB067	T	Solid	8330B	280-91878
280-21683-66	MG08 SB068	T	Solid	8330B	280-91878
280-21683-67	MG07 SB065	T	Solid	8330B	280-91878
280-21683-68	MG07 SB066	T	Solid	8330B	280-91878
280-21683-69	MG17 SB085	T	Solid	8330B	280-91878
280-21683-70	MG17 SB086	T	Solid	8330B	280-91878
280-21683-71	MG17 SB087	T	Solid	8330B	280-91878
280-21683-72	MG18 SB088	T	Solid	8330B	280-91878

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-92102					
LCS 280-92102/2-A	Lab Control Sample	T	Solid	8330B	
MB 280-92102/1-A	Method Blank	T	Solid	8330B	
280-21683-73	MG18 SB089	T	Solid	8330B	280-91879
280-21683-77	CP10 SB014	T	Solid	8330B	280-91879
280-21683-78	CP10 SB015	T	Solid	8330B	280-91879
280-21683-79	CP09 SB012	T	Solid	8330B	280-91879
280-21683-80	CP09 SB013	T	Solid	8330B	280-91879
280-21683-80MS	Matrix Spike	T	Solid	8330B	280-91879
280-21683-80MSD	Matrix Spike Duplicate	T	Solid	8330B	280-91879
280-21683-81	CP08 SB009	T	Solid	8330B	280-91879
280-21683-82	CP08 SB010	T	Solid	8330B	280-91879
280-21683-83	CP08 SB011	T	Solid	8330B	280-91879
280-21683-84	CP11 SB16A	T	Solid	8330B	280-91879
280-21683-85	CP11 SB16B	T	Solid	8330B	280-91879
280-21683-86	CP07 SB007	T	Solid	8330B	280-91879
280-21683-87	CP07 SB008	T	Solid	8330B	280-91879
280-21683-88	CP04 SB001	T	Solid	8330B	280-91879
280-21683-89	CP04 SB002	T	Solid	8330B	280-91879
280-21683-90	CP06 SB005	T	Solid	8330B	280-91879
280-21683-91	CP06 SB006	T	Solid	8330B	280-91879
280-21683-92	CP05 SB003	T	Solid	8330B	280-91879
280-21683-93	CP05 SB004	T	Solid	8330B	280-91879
280-21683-94	CP12 SB017	T	Solid	8330B	280-91879
280-21683-95	CP12 SB018	T	Solid	8330B	280-91879
Prep Batch: 280-92116					
GB 280-92116/1-B	Grinding Blank	T	Solid	8330	
LCSSRM 280-92116/2-B	LCS-Certified Reference Material	T	Solid	8330	
280-21683-2	MG19 IS016	T	Solid	8330	
280-21683-3	MG19 IS017	T	Solid	8330	
280-21683-4	MG19 IS018	T	Solid	8330	
280-21683-74	CP01 IS01	T	Solid	8330	
280-21683-75	CP01 IS02	T	Solid	8330	
280-21683-76	CP01 IS03	T	Solid	8330	

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-92311					
LCS 280-92311/2-A	Lab Control Sample	T	Solid	8330B	
MB 280-92311/1-A	Method Blank	T	Solid	8330B	
280-21683-33	MG31 SB113	T	Solid	8330B	280-91881
280-21683-34	MG31 SB114	T	Solid	8330B	280-91881
280-21683-35	MG30 SB111	T	Solid	8330B	280-91881
280-21683-36	MG30 SB112	T	Solid	8330B	280-91881
280-21683-37	MG29 SB109	T	Solid	8330B	280-91881
280-21683-38	MG29 SB110	T	Solid	8330B	280-91881
280-21683-39	MG06 SB062	T	Solid	8330B	280-91881
280-21683-40	MG06 SB063	T	Solid	8330B	280-91881
280-21683-41	MG06 SB064	T	Solid	8330B	280-91881
280-21683-42	MG05 SB060	T	Solid	8330B	280-91881
280-21683-43	MG05 SB061	T	Solid	8330B	280-91881
280-21683-44	MG04 SB058	T	Solid	8330B	280-91881
280-21683-45	MG04 SB059	T	Solid	8330B	280-91881
280-21683-46	MG03 SB056	T	Solid	8330B	280-91881
280-21683-47	MG03 SB057	T	Solid	8330B	280-91881
280-21683-47MS	Matrix Spike	T	Solid	8330B	280-91881
280-21683-47MSD	Matrix Spike Duplicate	T	Solid	8330B	280-91881
280-21683-48	MG02 SB054	T	Solid	8330B	280-91881
280-21683-49	MG02 SB055	T	Solid	8330B	280-91881
280-21683-50	MG15 SB081	T	Solid	8330B	280-91881
280-21683-51	MG15 SB082	T	Solid	8330B	280-91881
280-21683-52	MG12 SB073	T	Solid	8330B	280-91881

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-92314					
LCS 280-92314/2-A	Lab Control Sample	T	Solid	8330B	
MB 280-92314/1-A	Method Blank	T	Solid	8330B	
280-21683-13	MG23 SB099	T	Solid	8330B	280-91882
280-21683-14	MG25 SB103	T	Solid	8330B	280-91882
280-21683-15	MG23 SB098	T	Solid	8330B	280-91882
280-21683-16	MG21 SB093	T	Solid	8330B	280-91882
280-21683-17	MG24 SB100	T	Solid	8330B	280-91882
280-21683-18	MG21 SB092	T	Solid	8330B	280-91882
280-21683-18MS	Matrix Spike	T	Solid	8330B	280-91882
280-21683-18MSD	Matrix Spike Duplicate	T	Solid	8330B	280-91882
280-21683-19	MG35 SB123	T	Solid	8330B	280-91882
280-21683-20	MG26 SB105	T	Solid	8330B	280-91882
280-21683-21	MG24 SB101	T	Solid	8330B	280-91882
280-21683-22	MG35 SB124	T	Solid	8330B	280-91882
280-21683-23	MG35 SB125	T	Solid	8330B	280-91882
280-21683-24	MG36 SB126	T	Solid	8330B	280-91882
280-21683-25	MG36 SB127	T	Solid	8330B	280-91882
280-21683-26	MG32 SB115	T	Solid	8330B	280-91882
280-21683-27	MG32 SB116	T	Solid	8330B	280-91882
280-21683-28	MG33 SB117	T	Solid	8330B	280-91882
280-21683-29	MG33 SB119	T	Solid	8330B	280-91882
280-21683-30	MG33 SB118	T	Solid	8330B	280-91882
280-21683-31	MG34 SB121	T	Solid	8330B	280-91882
280-21683-32	MG34 SB122	T	Solid	8330B	280-91882
Prep Batch: 280-92315					
LCS 280-92315/2-A	Lab Control Sample	T	Solid	8330B	
MB 280-92315/1-A	Method Blank	T	Solid	8330B	
280-21683-1	MG26 SB104	T	Solid	8330B	280-91880
280-21683-5	MG20 SB090	T	Solid	8330B	280-91880
280-21683-6	MG20 SB091	T	Solid	8330B	280-91880
280-21683-7	MG22 SB094	T	Solid	8330B	280-91880
280-21683-8	MG22 SB095	T	Solid	8330B	280-91880
280-21683-9	MG22 SB096	T	Solid	8330B	280-91880
280-21683-10	MG27 SB107	T	Solid	8330B	280-91880
280-21683-11	MG27 SB106	T	Solid	8330B	280-91880
280-21683-11MS	Matrix Spike	T	Solid	8330B	280-91880
280-21683-11MSD	Matrix Spike Duplicate	T	Solid	8330B	280-91880
280-21683-12	MG25 SB102	T	Solid	8330B	280-91880

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Analysis Batch:280-92961					
LCS 280-92314/2-A	Lab Control Sample	T	Solid	8321B	280-92314
MB 280-92314/1-A	Method Blank	T	Solid	8321B	280-92314
280-21683-13	MG23 SB099	T	Solid	8321B	280-92314
280-21683-14	MG25 SB103	T	Solid	8321B	280-92314
280-21683-15	MG23 SB098	T	Solid	8321B	280-92314
280-21683-16	MG21 SB093	T	Solid	8321B	280-92314
280-21683-17	MG24 SB100	T	Solid	8321B	280-92314
280-21683-18	MG21 SB092	T	Solid	8321B	280-92314
280-21683-18MS	Matrix Spike	T	Solid	8321B	280-92314
280-21683-18MSD	Matrix Spike Duplicate	T	Solid	8321B	280-92314
280-21683-19	MG35 SB123	T	Solid	8321B	280-92314
280-21683-20	MG26 SB105	T	Solid	8321B	280-92314
280-21683-21	MG24 SB101	T	Solid	8321B	280-92314
280-21683-22	MG35 SB124	T	Solid	8321B	280-92314
280-21683-23	MG35 SB125	T	Solid	8321B	280-92314
280-21683-24	MG36 SB126	T	Solid	8321B	280-92314
280-21683-25	MG36 SB127	T	Solid	8321B	280-92314
280-21683-26	MG32 SB115	T	Solid	8321B	280-92314
280-21683-27	MG32 SB116	T	Solid	8321B	280-92314
280-21683-28	MG33 SB117	T	Solid	8321B	280-92314
280-21683-29	MG33 SB119	T	Solid	8321B	280-92314
280-21683-30	MG33 SB118	T	Solid	8321B	280-92314
280-21683-31	MG34 SB121	T	Solid	8321B	280-92314
280-21683-32	MG34 SB122	T	Solid	8321B	280-92314
Analysis Batch:280-92964					
LCS 280-92315/2-A	Lab Control Sample	T	Solid	8321B	280-92315
MB 280-92315/1-A	Method Blank	T	Solid	8321B	280-92315
280-21683-1	MG26 SB104	T	Solid	8321B	280-92315
280-21683-5	MG20 SB090	T	Solid	8321B	280-92315
280-21683-6	MG20 SB091	T	Solid	8321B	280-92315
280-21683-7	MG22 SB094	T	Solid	8321B	280-92315
280-21683-8	MG22 SB095	T	Solid	8321B	280-92315
280-21683-9	MG22 SB096	T	Solid	8321B	280-92315
280-21683-10	MG27 SB107	T	Solid	8321B	280-92315
280-21683-11	MG27 SB106	T	Solid	8321B	280-92315
280-21683-11MS	Matrix Spike	T	Solid	8321B	280-92315
280-21683-11MSD	Matrix Spike Duplicate	T	Solid	8321B	280-92315
280-21683-12	MG25 SB102	T	Solid	8321B	280-92315

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-93548					
LCS 280-93548/2-A	Lab Control Sample	T	Solid	8330B	
MB 280-93548/1-A	Method Blank	T	Solid	8330B	
GB 280-92116/1-B	Grinding Blank	T	Solid	8330B	280-92116
LCSSRM 280-92116/2-B	LCS-Certified Reference Material	T	Solid	8330B	280-92116
280-21683-2	MG19 IS016	T	Solid	8330B	280-92116
280-21683-3	MG19 IS017	T	Solid	8330B	280-92116
280-21683-4	MG19 IS018	T	Solid	8330B	280-92116
280-21683-74	CP01 IS01	T	Solid	8330B	280-92116
280-21683-75	CP01 IS02	T	Solid	8330B	280-92116
280-21683-76	CP01 IS03	T	Solid	8330B	280-92116
Analysis Batch:280-94192					
LCS 280-92311/2-A	Lab Control Sample	T	Solid	8321B	280-92311
MB 280-92311/1-A	Method Blank	T	Solid	8321B	280-92311
280-21683-33	MG31 SB113	T	Solid	8321B	280-92311
280-21683-34	MG31 SB114	T	Solid	8321B	280-92311
280-21683-35	MG30 SB111	T	Solid	8321B	280-92311
280-21683-36	MG30 SB112	T	Solid	8321B	280-92311
280-21683-37	MG29 SB109	T	Solid	8321B	280-92311
280-21683-38	MG29 SB110	T	Solid	8321B	280-92311
280-21683-39	MG06 SB062	T	Solid	8321B	280-92311
280-21683-40	MG06 SB063	T	Solid	8321B	280-92311
280-21683-41	MG06 SB064	T	Solid	8321B	280-92311
280-21683-42	MG05 SB060	T	Solid	8321B	280-92311
280-21683-43	MG05 SB061	T	Solid	8321B	280-92311
280-21683-44	MG04 SB058	T	Solid	8321B	280-92311
280-21683-45	MG04 SB059	T	Solid	8321B	280-92311
280-21683-46	MG03 SB056	T	Solid	8321B	280-92311
280-21683-47	MG03 SB057	T	Solid	8321B	280-92311
280-21683-47MS	Matrix Spike	T	Solid	8321B	280-92311
280-21683-47MSD	Matrix Spike Duplicate	T	Solid	8321B	280-92311
280-21683-48	MG02 SB054	T	Solid	8321B	280-92311
280-21683-49	MG02 SB055	T	Solid	8321B	280-92311
280-21683-50	MG15 SB081	T	Solid	8321B	280-92311
280-21683-51	MG15 SB082	T	Solid	8321B	280-92311
280-21683-52	MG12 SB073	T	Solid	8321B	280-92311

Client: UXB International, Inc. | Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Analysis Batch:280-94193					
LCS 280-92097/2-A	Lab Control Sample	T	Solid	8321B	280-92097
MB 280-92097/1-A	Method Blank	T	Solid	8321B	280-92097
280-21683-53	MG12 SB075	T	Solid	8321B	280-92097
280-21683-54	MG12 SB074	T	Solid	8321B	280-92097
280-21683-54MS	Matrix Spike	T	Solid	8321B	280-92097
280-21683-54MSD	Matrix Spike Duplicate	T	Solid	8321B	280-92097
280-21683-55	MG11 SB071	T	Solid	8321B	280-92097
280-21683-56	MG11 SB072	T	Solid	8321B	280-92097
280-21683-57	MG14 SB079	T	Solid	8321B	280-92097
280-21683-58	MG14 SB080	T	Solid	8321B	280-92097
280-21683-59	MG13 SB077	T	Solid	8321B	280-92097
280-21683-60	MG13 SB078	T	Solid	8321B	280-92097
280-21683-61	MG16 SB083	T	Solid	8321B	280-92097
280-21683-62	MG16 SB084	T	Solid	8321B	280-92097
280-21683-63	MG09 SB069	T	Solid	8321B	280-92097
280-21683-64	MG09 SB070	T	Solid	8321B	280-92097
280-21683-65	MG08 SB067	T	Solid	8321B	280-92097
280-21683-66	MG08 SB068	T	Solid	8321B	280-92097
280-21683-67	MG07 SB065	T	Solid	8321B	280-92097
280-21683-68	MG07 SB066	T	Solid	8321B	280-92097
280-21683-69	MG17 SB085	T	Solid	8321B	280-92097
280-21683-70	MG17 SB086	T	Solid	8321B	280-92097
280-21683-71	MG17 SB087	T	Solid	8321B	280-92097
280-21683-72	MG18 SB088	T	Solid	8321B	280-92097

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Analysis Batch:280-94194					
LCS 280-92102/2-A	Lab Control Sample	T	Solid	8321B	280-92102
MB 280-92102/1-A	Method Blank	T	Solid	8321B	280-92102
280-21683-73	MG18 SB089	T	Solid	8321B	280-92102
280-21683-77	CP10 SB014	T	Solid	8321B	280-92102
280-21683-78	CP10 SB015	T	Solid	8321B	280-92102
280-21683-79	CP09 SB012	T	Solid	8321B	280-92102
280-21683-80	CP09 SB013	T	Solid	8321B	280-92102
280-21683-80MS	Matrix Spike	T	Solid	8321B	280-92102
280-21683-80MSD	Matrix Spike Duplicate	T	Solid	8321B	280-92102
280-21683-81	CP08 SB009	T	Solid	8321B	280-92102
280-21683-82	CP08 SB010	T	Solid	8321B	280-92102
280-21683-83	CP08 SB011	T	Solid	8321B	280-92102
280-21683-84	CP11 SB16A	T	Solid	8321B	280-92102
280-21683-85	CP11 SB16B	T	Solid	8321B	280-92102
280-21683-86	CP07 SB007	T	Solid	8321B	280-92102
280-21683-87	CP07 SB008	T	Solid	8321B	280-92102
280-21683-88	CP04 SB001	T	Solid	8321B	280-92102
280-21683-89	CP04 SB002	T	Solid	8321B	280-92102
280-21683-90	CP06 SB005	T	Solid	8321B	280-92102
280-21683-91	CP06 SB006	T	Solid	8321B	280-92102
280-21683-92	CP05 SB003	T	Solid	8321B	280-92102
280-21683-93	CP05 SB004	T	Solid	8321B	280-92102
280-21683-94	CP12 SB017	T	Solid	8321B	280-92102
280-21683-95	CP12 SB018	T	Solid	8321B	280-92102
Analysis Batch:280-94252					
GB 280-92116/1-B	Grinding Blank	T	Solid	8321B	280-93548
LCS 280-93548/2-A	Lab Control Sample	T	Solid	8321B	280-93548
LCSSRM 280-92116/2-B	LCS-Certified Reference Material	T	Solid	8321B	280-93548
MB 280-93548/1-A	Method Blank	T	Solid	8321B	280-93548
280-21683-2	MG19 IS016	T	Solid	8321B	280-93548
280-21683-3	MG19 IS017	T	Solid	8321B	280-93548
280-21683-4	MG19 IS018	T	Solid	8321B	280-93548
280-21683-74	CP01 IS01	T	Solid	8321B	280-93548
280-21683-75	CP01 IS02	T	Solid	8321B	280-93548
280-21683-76	CP01 IS03	T	Solid	8321B	280-93548

Report Basis

T = Total

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					

Client: UXB International, Inc. | Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-91906					
280-21683-13	MG23 SB099	T	Solid	Moisture	
280-21683-14	MG25 SB103	T	Solid	Moisture	
280-21683-15	MG23 SB098	T	Solid	Moisture	
280-21683-16	MG21 SB093	T	Solid	Moisture	
280-21683-17	MG24 SB100	T	Solid	Moisture	
280-21683-18	MG21 SB092	T	Solid	Moisture	
280-21683-33	MG31 SB113	T	Solid	Moisture	
280-21683-34	MG31 SB114	T	Solid	Moisture	
280-21683-35	MG30 SB111	T	Solid	Moisture	
280-21683-35DU	Duplicate	T	Solid	Moisture	
280-21683-36	MG30 SB112	T	Solid	Moisture	
280-21683-37	MG29 SB109	T	Solid	Moisture	
280-21683-38	MG29 SB110	T	Solid	Moisture	
280-21683-39	MG06 SB062	T	Solid	Moisture	
280-21683-40	MG06 SB063	T	Solid	Moisture	
280-21683-41	MG06 SB064	T	Solid	Moisture	
280-21683-42	MG05 SB060	T	Solid	Moisture	
280-21683-43	MG05 SB061	T	Solid	Moisture	
280-21683-44	MG04 SB058	T	Solid	Moisture	
280-21683-45	MG04 SB059	T	Solid	Moisture	
280-21683-46	MG03 SB056	T	Solid	Moisture	
280-21683-47	MG03 SB057	T	Solid	Moisture	
280-21683-48	MG02 SB054	T	Solid	Moisture	
280-21683-49	MG02 SB055	T	Solid	Moisture	
280-21683-64	MG09 SB070	T	Solid	Moisture	
280-21683-65	MG08 SB067	T	Solid	Moisture	
280-21683-67	MG07 SB065	T	Solid	Moisture	
280-21683-68	MG07 SB066	T	Solid	Moisture	
280-21683-69	MG17 SB085	T	Solid	Moisture	
280-21683-72	MG18 SB088	T	Solid	Moisture	
280-21683-73	MG18 SB089	T	Solid	Moisture	
280-21683-80	CP09 SB013	T	Solid	Moisture	
280-21683-82	CP08 SB010	T	Solid	Moisture	
280-21683-83	CP08 SB011	T	Solid	Moisture	
280-21683-85	CP11 SB16B	T	Solid	Moisture	
280-21683-86	CP07 SB007	T	Solid	Moisture	
280-21683-87	CP07 SB008	T	Solid	Moisture	
280-21683-88	CP04 SB001	T	Solid	Moisture	
280-21683-89	CP04 SB002	T	Solid	Moisture	
280-21683-90	CP06 SB005	T	Solid	Moisture	
280-21683-91	CP06 SB006	T	Solid	Moisture	
280-21683-92	CP05 SB003	T	Solid	Moisture	
280-21683-93	CP05 SB004	T	Solid	Moisture	
280-21683-93DU	Duplicate	T	Solid	Moisture	
280-21683-94	CP12 SB017	T	Solid	Moisture	
280-21683-95	CP12 SB018	T	Solid	Moisture	

Client: UXB International, Inc.

Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					

Client: UXB International, Inc. Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-92133					
280-21683-1	MG26 SB104	T	Solid	Moisture	
280-21683-5	MG20 SB090	T	Solid	Moisture	
280-21683-6	MG20 SB091	T	Solid	Moisture	
280-21683-7	MG22 SB094	T	Solid	Moisture	
280-21683-8	MG22 SB095	T	Solid	Moisture	
280-21683-9	MG22 SB096	T	Solid	Moisture	
280-21683-10	MG27 SB107	T	Solid	Moisture	
280-21683-11	MG27 SB106	T	Solid	Moisture	
280-21683-12	MG25 SB102	T	Solid	Moisture	
280-21683-19	MG35 SB123	T	Solid	Moisture	
280-21683-20	MG26 SB105	T	Solid	Moisture	
280-21683-21	MG24 SB101	T	Solid	Moisture	
280-21683-22	MG35 SB124	T	Solid	Moisture	
280-21683-23	MG35 SB125	T	Solid	Moisture	
280-21683-24	MG36 SB126	T	Solid	Moisture	
280-21683-24DU	Duplicate	T	Solid	Moisture	
280-21683-25	MG36 SB127	T	Solid	Moisture	
280-21683-26	MG32 SB115	T	Solid	Moisture	
280-21683-27	MG32 SB116	T	Solid	Moisture	
280-21683-28	MG33 SB117	T	Solid	Moisture	
280-21683-29	MG33 SB119	T	Solid	Moisture	
280-21683-30	MG33 SB118	T	Solid	Moisture	
280-21683-31	MG34 SB121	T	Solid	Moisture	
280-21683-32	MG34 SB122	T	Solid	Moisture	
280-21683-50	MG15 SB081	T	Solid	Moisture	
280-21683-51	MG15 SB082	T	Solid	Moisture	
280-21683-52	MG12 SB073	T	Solid	Moisture	
280-21683-53	MG12 SB075	T	Solid	Moisture	
280-21683-54	MG12 SB074	T	Solid	Moisture	
280-21683-55	MG11 SB071	T	Solid	Moisture	
280-21683-56	MG11 SB072	T	Solid	Moisture	
280-21683-57	MG14 SB079	T	Solid	Moisture	
280-21683-58	MG14 SB080	T	Solid	Moisture	
280-21683-59	MG13 SB077	T	Solid	Moisture	
280-21683-60	MG13 SB078	T	Solid	Moisture	
280-21683-61	MG16 SB083	T	Solid	Moisture	
280-21683-62	MG16 SB084	T	Solid	Moisture	
280-21683-63	MG09 SB069	T	Solid	Moisture	
280-21683-66	MG08 SB068	T	Solid	Moisture	
280-21683-70	MG17 SB086	T	Solid	Moisture	
280-21683-71	MG17 SB087	T	Solid	Moisture	
280-21683-77	CP10 SB014	T	Solid	Moisture	
280-21683-78	CP10 SB015	T	Solid	Moisture	
280-21683-79	CP09 SB012	T	Solid	Moisture	
280-21683-81	CP08 SB009	T	Solid	Moisture	
280-21683-81DU	Duplicate	T	Solid	Moisture	

Client: UXB International, Inc.   Job Number: 280-21683-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-92133					
280-21683-84	CP11 SB16A	T	Solid	Moisture	

Report Basis

T = Total

Client: UXB International, Inc.   Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-1**   **Client ID:** **MG26 SB104**

Sample Date/Time: 10/14/2011 09:46   Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-1-B		280-92964	280-92315	10/20/2011 19:15	1	TAL DEN	CDC
A:8321B	280-21683-B-1-B		280-92964	280-92315	10/25/2011 20:23	1	TAL DEN	AGCM
P:3050B	280-21683-A-1-A		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-1-A		280-94332	280-91954	11/01/2011 19:47	1	TAL DEN	TEL
P:3050B	280-21683-A-1-D		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-1-D		280-94600	280-94294	11/03/2011 00:18	1	TAL DEN	TEL
A:Moisture	280-21683-A-1		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: **280-21683-1 MS**   **Client ID:** **MG26 SB104**

Sample Date/Time: 10/14/2011 09:46   Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-1-B MS		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-1-B MS		280-94332	280-91954	11/01/2011 19:55	1	TAL DEN	TEL
P:3050B	280-21683-A-1-E MS		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-1-E MS		280-94600	280-94294	11/03/2011 00:27	1	TAL DEN	TEL

Lab ID: **280-21683-1 MSD**   **Client ID:** **MG26 SB104**

Sample Date/Time: 10/14/2011 09:46   Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-1-C MSD		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-1-C MSD		280-94332	280-91954	11/01/2011 19:58	1	TAL DEN	TEL
P:3050B	280-21683-A-1-F MSD		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-1-F MSD		280-94600	280-94294	11/03/2011 00:30	1	TAL DEN	TEL

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-1 SD** **Client ID:** **MG26 SB104**

Sample Date/Time: 10/14/2011 09:46 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-1-A SD ^5		280-94332	280-91954	10/31/2011 14:00	5	TAL DEN	JM
A:6020A	280-21683-A-1-A SD ^5		280-94332	280-91954	11/01/2011 19:50	5	TAL DEN	TEL
P:3050B	280-21683-A-1-A PDS		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-1-A PDS		280-94332	280-91954	11/01/2011 19:53	1	TAL DEN	TEL
P:3050B	280-21683-A-1-D SD ^5		280-94600	280-94294	11/02/2011 18:00	5	TAL DEN	JM
A:6020A	280-21683-A-1-D SD ^5		280-94600	280-94294	11/03/2011 00:21	5	TAL DEN	TEL
P:3050B	280-21683-A-1-D PDS		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-1-D PDS		280-94600	280-94294	11/03/2011 00:24	1	TAL DEN	TEL

Lab ID: **280-21683-2** **Client ID:** **MG19 IS016**

Sample Date/Time: 10/13/2011 13:15 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-2-D		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21683-A-2-D		280-94252	280-93548	11/02/2011 06:36	1	TAL DEN	AGCM
P:3050B	280-21683-A-2-E		280-94600	280-94043	11/02/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-2-E		280-94600	280-94043	11/02/2011 22:52	1	TAL DEN	TEL

Lab ID: **280-21683-3** **Client ID:** **MG19 IS017**

Sample Date/Time: 10/13/2011 16:53 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-3-D		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21683-A-3-D		280-94252	280-93548	11/02/2011 06:50	1	TAL DEN	AGCM
P:3050B	280-21683-A-3-E		280-94600	280-94043	11/02/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-3-E		280-94600	280-94043	11/02/2011 22:55	1	TAL DEN	TEL

Lab ID: **280-21683-4** **Client ID:** **MG19 IS018**

Sample Date/Time: 10/14/2011 09:45 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-4-D		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21683-A-4-D		280-94252	280-93548	11/02/2011 07:03	1	TAL DEN	AGCM
P:3050B	280-21683-A-4-E		280-94600	280-94043	11/02/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-4-E		280-94600	280-94043	11/02/2011 22:58	1	TAL DEN	TEL

Client: UXB International, Inc.　　　　Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-5**　　**Client ID:** **MG20 SB090**

Sample Date/Time: 10/13/2011 15:55　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-5-B		280-92964	280-92315	10/20/2011 19:15	1	TAL DEN	CDC
A:8321B	280-21683-B-5-B		280-92964	280-92315	10/25/2011 20:36	1	TAL DEN	AGCM
P:3050B	280-21683-A-5-A		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-5-A		280-94332	280-91954	11/01/2011 20:01	1	TAL DEN	TEL
P:3050B	280-21683-A-5-B		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-5-B		280-94600	280-94294	11/03/2011 00:32	1	TAL DEN	TEL
A:Moisture	280-21683-A-5		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: **280-21683-6**　　**Client ID:** **MG20 SB091**

Sample Date/Time: 10/13/2011 16:25　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-6-C		280-92964	280-92315	10/20/2011 19:15	1	TAL DEN	CDC
A:8321B	280-21683-A-6-C		280-92964	280-92315	10/25/2011 20:50	1	TAL DEN	AGCM
P:3050B	280-21683-A-6-B		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-6-B		280-94332	280-91954	11/01/2011 20:16	1	TAL DEN	TEL
P:3050B	280-21683-A-6-D		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-6-D		280-94600	280-94294	11/03/2011 00:44	1	TAL DEN	TEL
A:Moisture	280-21683-B-6		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: **280-21683-7**　　**Client ID:** **MG22 SB094**

Sample Date/Time: 10/13/2011 16:46　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-7-C		280-92964	280-92315	10/20/2011 19:15	1	TAL DEN	CDC
A:8321B	280-21683-A-7-C		280-92964	280-92315	10/25/2011 21:04	1	TAL DEN	AGCM
P:3050B	280-21683-A-7-B		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-7-B		280-94332	280-91954	11/01/2011 20:19	1	TAL DEN	TEL
P:3050B	280-21683-A-7-D		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-7-D		280-94600	280-94294	11/03/2011 00:47	1	TAL DEN	TEL
A:Moisture	280-21683-B-7		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-8** **Client ID:** **MG22 SB095**

Sample Date/Time: 10/13/2011 16:57 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-8-C		280-92964	280-92315	10/20/2011 19:15	1	TAL DEN	CDC
A:8321B	280-21683-A-8-C		280-92964	280-92315	10/25/2011 21:17	1	TAL DEN	AGCM
P:3050B	280-21683-A-8-B		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-8-B		280-94332	280-91954	11/01/2011 20:22	1	TAL DEN	TEL
P:3050B	280-21683-A-8-D		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-8-D		280-94600	280-94294	11/03/2011 00:50	1	TAL DEN	TEL
A:Moisture	280-21683-B-8		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: **280-21683-9** **Client ID:** **MG22 SB096**

Sample Date/Time: 10/13/2011 16:46 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-9-C		280-92964	280-92315	10/20/2011 19:15	1	TAL DEN	CDC
A:8321B	280-21683-A-9-C		280-92964	280-92315	10/26/2011 07:12	1	TAL DEN	AGCM
P:3050B	280-21683-A-9-B		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-9-B		280-94332	280-91954	11/01/2011 20:24	1	TAL DEN	TEL
P:3050B	280-21683-A-9-D		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-9-D		280-94600	280-94294	11/03/2011 00:53	1	TAL DEN	TEL
A:Moisture	280-21683-B-9		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: **280-21683-10** **Client ID:** **MG27 SB107**

Sample Date/Time: 10/14/2011 10:17 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-10-B		280-92964	280-92315	10/20/2011 19:15	1	TAL DEN	CDC
A:8321B	280-21683-B-10-B		280-92964	280-92315	10/26/2011 07:26	1	TAL DEN	AGCM
P:3050B	280-21683-A-10-A		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-10-A		280-94332	280-91954	11/01/2011 20:27	1	TAL DEN	TEL
P:3050B	280-21683-A-10-B		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-10-B		280-94600	280-94294	11/03/2011 00:56	1	TAL DEN	TEL
A:Moisture	280-21683-A-10		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Client: UXB International, Inc.

Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-11** **Client ID:** **MG27 SB106**

Sample Date/Time: 10/14/2011 10:09 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-11-C		280-92964	280-92315	10/20/2011 19:15	1	TAL DEN	CDC
A:8321B	280-21683-A-11-C		280-92964	280-92315	10/26/2011 07:39	1	TAL DEN	AGCM
P:3050B	280-21683-A-11-B		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-11-B		280-94332	280-91954	11/01/2011 20:30	1	TAL DEN	TEL
P:3050B	280-21683-A-11-F		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-11-F		280-94600	280-94294	11/03/2011 00:59	1	TAL DEN	TEL
A:Moisture	280-21683-B-11		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: **280-21683-11 MS** **Client ID:** **MG27 SB106**

Sample Date/Time: 10/14/2011 10:09 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-11-D MS		280-92964	280-92315	10/20/2011 19:15	1	TAL DEN	CDC
A:8321B	280-21683-A-11-D MS		280-92964	280-92315	10/26/2011 08:37	1	TAL DEN	AGCM

Lab ID: **280-21683-11 MSD** **Client ID:** **MG27 SB106**

Sample Date/Time: 10/14/2011 10:09 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-11-E MSD		280-92964	280-92315	10/20/2011 19:15	1	TAL DEN	CDC
A:8321B	280-21683-A-11-E MSD		280-92964	280-92315	10/26/2011 08:51	1	TAL DEN	AGCM

Lab ID: **280-21683-12** **Client ID:** **MG25 SB102**

Sample Date/Time: 10/14/2011 10:29 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-12-C		280-92964	280-92315	10/20/2011 19:15	1	TAL DEN	CDC
A:8321B	280-21683-A-12-C		280-92964	280-92315	10/26/2011 09:05	1	TAL DEN	AGCM
P:3050B	280-21683-A-12-B		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-12-B		280-94332	280-91954	11/01/2011 20:33	1	TAL DEN	TEL
P:3050B	280-21683-A-12-D		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-12-D		280-94600	280-94294	11/03/2011 01:02	1	TAL DEN	TEL
A:Moisture	280-21683-B-12		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-13** **Client ID:** **MG23 SB099**

Sample Date/Time: 10/14/2011 08:58 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-13-C		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-A-13-C		280-92961	280-92314	10/25/2011 14:14	1	TAL DEN	AGCM
P:3050B	280-21683-A-13-B		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-13-B		280-94332	280-91954	11/01/2011 20:36	1	TAL DEN	TEL
P:3050B	280-21683-A-13-D		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-13-D		280-94600	280-94294	11/03/2011 01:13	1	TAL DEN	TEL
A:Moisture	280-21683-B-13		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-14** **Client ID:** **MG25 SB103**

Sample Date/Time: 10/14/2011 10:33 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-14-B		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-B-14-B		280-92961	280-92314	10/25/2011 14:28	1	TAL DEN	AGCM
P:3050B	280-21683-A-14-A		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-14-A		280-94332	280-91954	11/01/2011 20:48	1	TAL DEN	TEL
P:3050B	280-21683-A-14-B		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-14-B		280-94600	280-94294	11/03/2011 01:16	1	TAL DEN	TEL
A:Moisture	280-21683-A-14		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-15** **Client ID:** **MG23 SB098**

Sample Date/Time: 10/14/2011 08:45 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-15-B		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-B-15-B		280-92961	280-92314	10/25/2011 14:41	1	TAL DEN	AGCM
P:3050B	280-21683-A-15-A		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-15-A		280-94332	280-91954	11/01/2011 20:51	1	TAL DEN	TEL
P:3050B	280-21683-A-15-B		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-15-B		280-94600	280-94294	11/03/2011 01:19	1	TAL DEN	TEL
A:Moisture	280-21683-A-15		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Client: UXB International, Inc.　　　　Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-16**　　**Client ID:** **MG21 SB093**

Sample Date/Time: 10/14/2011 09:11　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-16-C		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-A-16-C		280-92961	280-92314	10/25/2011 14:55	1	TAL DEN	AGCM
P:3050B	280-21683-A-16-B		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-16-B		280-94332	280-91954	11/01/2011 20:54	1	TAL DEN	TEL
P:3050B	280-21683-A-16-D		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-16-D		280-94600	280-94294	11/03/2011 01:22	1	TAL DEN	TEL
A:Moisture	280-21683-B-16		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-17**　　**Client ID:** **MG24 SB100**

Sample Date/Time: 10/14/2011 09:27　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-17-B		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-B-17-B		280-92961	280-92314	10/25/2011 15:09	1	TAL DEN	AGCM
P:3050B	280-21683-A-17-A		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-17-A		280-94332	280-91954	11/01/2011 20:56	1	TAL DEN	TEL
P:3050B	280-21683-A-17-B		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-17-B		280-94600	280-94294	11/03/2011 01:25	1	TAL DEN	TEL
A:Moisture	280-21683-A-17		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-18**　　**Client ID:** **MG21 SB092**

Sample Date/Time: 10/14/2011 09:05　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-18-C		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-A-18-C		280-92961	280-92314	10/25/2011 15:22	1	TAL DEN	AGCM
P:3050B	280-21683-A-18-B		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-18-B		280-94332	280-91954	11/01/2011 20:59	1	TAL DEN	TEL
P:3050B	280-21683-A-18-F		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-18-F		280-94600	280-94294	11/03/2011 01:28	1	TAL DEN	TEL
A:Moisture	280-21683-B-18		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-18 MS**　　**Client ID:** **MG21 SB092**

Sample Date/Time: 10/14/2011 09:05　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-18-D MS		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-A-18-D MS		280-92961	280-92314	10/25/2011 15:36	1	TAL DEN	AGCM

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-18 MSD **Client ID: MG21 SB092**

Sample Date/Time: 10/14/2011 09:05 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-18-E MSD		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-A-18-E MSD		280-92961	280-92314	10/25/2011 15:50	1	TAL DEN	AGCM

Lab ID: 280-21683-19 **Client ID: MG35 SB123**

Sample Date/Time: 10/14/2011 10:29 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-19-C		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-A-19-C		280-92961	280-92314	10/25/2011 16:17	1	TAL DEN	AGCM
P:3050B	280-21683-A-19-B		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-19-B		280-94332	280-91954	11/01/2011 21:02	1	TAL DEN	TEL
P:3050B	280-21683-A-19-D		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-19-D		280-94600	280-94294	11/03/2011 01:31	1	TAL DEN	TEL
A:Moisture	280-21683-B-19		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-20 **Client ID: MG26 SB105**

Sample Date/Time: 10/14/2011 09:52 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-20-C		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-A-20-C		280-92961	280-92314	10/25/2011 16:31	1	TAL DEN	AGCM
P:3050B	280-21683-A-20-B		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-20-B		280-94332	280-91954	11/01/2011 21:05	1	TAL DEN	TEL
P:3050B	280-21683-A-20-D		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-20-D		280-94600	280-94294	11/03/2011 01:34	1	TAL DEN	TEL
A:Moisture	280-21683-B-20		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-21 **Client ID: MG24 SB101**

Sample Date/Time: 10/14/2011 09:33 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-21-B		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-B-21-B		280-92961	280-92314	10/25/2011 16:44	1	TAL DEN	AGCM
P:3050B	280-21683-A-21-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-21-A		280-94332	280-91956	11/01/2011 21:23	1	TAL DEN	TEL
A:Moisture	280-21683-A-21		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-21 MS **Client ID: MG24 SB101**

Sample Date/Time: 10/14/2011 09:33 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-21-B MS		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-21-B MS		280-94332	280-91956	11/01/2011 21:31	1	TAL DEN	TEL

Lab ID: 280-21683-21 MSD **Client ID: MG24 SB101**

Sample Date/Time: 10/14/2011 09:33 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-21-C MSD		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-21-C MSD		280-94332	280-91956	11/01/2011 21:34	1	TAL DEN	TEL

Lab ID: 280-21683-21 SD **Client ID: MG24 SB101**

Sample Date/Time: 10/14/2011 09:33 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-21-A SD ^5		280-94332	280-91956	11/01/2011 05:30	5	TAL DEN	CLI
A:6020A	280-21683-A-21-A SD ^5		280-94332	280-91956	11/01/2011 21:26	5	TAL DEN	TEL
P:3050B	280-21683-A-21-A PDS		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-21-A PDS		280-94332	280-91956	11/01/2011 21:28	1	TAL DEN	TEL

Lab ID: 280-21683-22 **Client ID: MG35 SB124**

Sample Date/Time: 10/14/2011 11:30 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-22-C		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-A-22-C		280-92961	280-92314	10/25/2011 16:58	1	TAL DEN	AGCM
P:3050B	280-21683-B-22-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-22-A		280-94332	280-91956	11/01/2011 21:37	1	TAL DEN	TEL
A:Moisture	280-21683-B-22		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-23 **Client ID: MG35 SB125**

Sample Date/Time: 10/14/2011 11:30 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-23-B		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-B-23-B		280-92961	280-92314	10/25/2011 17:12	1	TAL DEN	AGCM
P:3050B	280-21683-A-23-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-23-A		280-94332	280-91956	11/01/2011 21:40	1	TAL DEN	TEL
A:Moisture	280-21683-A-23		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-24 **Client ID: MG36 SB126**

Sample Date/Time: 10/14/2011 11:46 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-24-B		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-B-24-B		280-92961	280-92314	10/25/2011 17:25	1	TAL DEN	AGCM
P:3050B	280-21683-A-24-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-24-A		280-94332	280-91956	11/01/2011 21:54	1	TAL DEN	TEL
A:Moisture	280-21683-A-24		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-24 DU **Client ID: MG36 SB126**

Sample Date/Time: 10/14/2011 11:46 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	280-21683-A-24 DU		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-25 **Client ID: MG36 SB127**

Sample Date/Time: 10/14/2011 11:56 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-25-C		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-A-25-C		280-92961	280-92314	10/25/2011 17:39	1	TAL DEN	AGCM
P:3050B	280-21683-B-25-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-25-A		280-94332	280-91956	11/01/2011 21:57	1	TAL DEN	TEL
A:Moisture	280-21683-B-25		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Client: UXB International, Inc.　　　　Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-26　　**Client ID: MG32 SB115**

Sample Date/Time: 10/14/2011 14:10　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-26-C		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-A-26-C		280-92961	280-92314	10/25/2011 18:06	1	TAL DEN	AGCM
P:3050B	280-21683-B-26-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-26-A		280-94332	280-91956	11/01/2011 22:00	1	TAL DEN	TEL
A:Moisture	280-21683-B-26		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-27　　**Client ID: MG32 SB116**

Sample Date/Time: 10/14/2011 14:20　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-27-B		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-B-27-B		280-92961	280-92314	10/25/2011 18:20	1	TAL DEN	AGCM
P:3050B	280-21683-A-27-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-27-A		280-94332	280-91956	11/01/2011 22:03	1	TAL DEN	TEL
A:Moisture	280-21683-A-27		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-28　　**Client ID: MG33 SB117**

Sample Date/Time: 10/15/2011 08:41　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-28-B		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-B-28-B		280-92961	280-92314	10/25/2011 18:33	1	TAL DEN	AGCM
P:3050B	280-21683-A-28-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-28-A		280-94332	280-91956	11/01/2011 22:06	1	TAL DEN	TEL
A:Moisture	280-21683-A-28		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-29　　**Client ID: MG33 SB119**

Sample Date/Time: 10/15/2011 08:41　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-29-B		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-B-29-B		280-92961	280-92314	10/25/2011 18:47	1	TAL DEN	AGCM
P:3050B	280-21683-A-29-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-29-A		280-94332	280-91956	11/01/2011 22:09	1	TAL DEN	TEL
A:Moisture	280-21683-A-29		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

TestAmerica Denver　　　　A = Analytical Method　　P = Prep Method

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-30 **Client ID: MG33 SB118**

Sample Date/Time: 10/15/2011 08:53 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-30-C		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-A-30-C		280-92961	280-92314	10/25/2011 19:01	1	TAL DEN	AGCM
P:3050B	280-21683-B-30-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-30-A		280-94332	280-91956	11/01/2011 22:12	1	TAL DEN	TEL
A:Moisture	280-21683-B-30		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-31 **Client ID: MG34 SB121**

Sample Date/Time: 10/15/2011 09:06 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-31-C		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-A-31-C		280-92961	280-92314	10/25/2011 19:14	1	TAL DEN	AGCM
P:3050B	280-21683-B-31-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-31-A		280-94332	280-91956	11/01/2011 22:15	1	TAL DEN	TEL
A:Moisture	280-21683-B-31		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-32 **Client ID: MG34 SB122**

Sample Date/Time: 10/15/2011 09:15 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-32-B		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	280-21683-B-32-B		280-92961	280-92314	10/25/2011 19:28	1	TAL DEN	AGCM
P:3050B	280-21683-A-32-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-32-A		280-94332	280-91956	11/01/2011 22:18	1	TAL DEN	TEL
A:Moisture	280-21683-A-32		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-33 **Client ID: MG31 SB113**

Sample Date/Time: 10/15/2011 09:26 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-33-B		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-B-33-B		280-94192	280-92311	11/01/2011 11:42	1	TAL DEN	AGCM
P:3050B	280-21683-A-33-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-33-A		280-94332	280-91956	11/01/2011 22:29	1	TAL DEN	TEL
A:Moisture	280-21683-A-33		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-34** **Client ID:** **MG31 SB114**

Sample Date/Time: 10/15/2011 09:33 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-34-C		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-A-34-C		280-94192	280-92311	11/01/2011 11:55	1	TAL DEN	AGCM
P:3050B	280-21683-B-34-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-34-A		280-94332	280-91956	11/01/2011 22:32	1	TAL DEN	TEL
A:Moisture	280-21683-B-34		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-35** **Client ID:** **MG30 SB111**

Sample Date/Time: 10/15/2011 09:45 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-35-C		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-A-35-C		280-94192	280-92311	11/01/2011 12:09	1	TAL DEN	AGCM
P:3050B	280-21683-B-35-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-35-A		280-94332	280-91956	11/01/2011 22:35	1	TAL DEN	TEL
A:Moisture	280-21683-B-35		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-35 DU** **Client ID:** **MG30 SB111**

Sample Date/Time: 10/15/2011 09:45 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	280-21683-B-35 DU		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-36** **Client ID:** **MG30 SB112**

Sample Date/Time: 10/15/2011 09:51 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-36-B		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-B-36-B		280-94192	280-92311	11/01/2011 12:22	1	TAL DEN	AGCM
P:3050B	280-21683-A-36-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-36-A		280-94332	280-91956	11/01/2011 22:38	1	TAL DEN	TEL
A:Moisture	280-21683-A-36		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-37 **Client ID: MG29 SB109**

Sample Date/Time: 10/15/2011 10:00 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-37-B		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-B-37-B		280-94192	280-92311	11/01/2011 12:38	1	TAL DEN	AGCM
P:3050B	280-21683-A-37-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-37-A		280-94332	280-91956	11/01/2011 22:41	1	TAL DEN	TEL
A:Moisture	280-21683-A-37		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-38 **Client ID: MG29 SB110**

Sample Date/Time: 10/15/2011 10:05 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-38-C		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-A-38-C		280-94192	280-92311	11/01/2011 12:51	1	TAL DEN	AGCM
P:3050B	280-21683-B-38-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-38-A		280-94332	280-91956	11/01/2011 22:44	1	TAL DEN	TEL
A:Moisture	280-21683-B-38		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-39 **Client ID: MG06 SB062**

Sample Date/Time: 10/15/2011 13:11 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-39-B		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-B-39-B		280-94192	280-92311	11/01/2011 13:19	1	TAL DEN	AGCM
P:3050B	280-21683-A-39-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-39-A		280-94332	280-91956	11/01/2011 22:47	1	TAL DEN	TEL
A:Moisture	280-21683-A-39		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-40 **Client ID: MG06 SB063**

Sample Date/Time: 10/15/2011 13:16 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-40-C		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-A-40-C		280-94192	280-92311	11/01/2011 13:33	1	TAL DEN	AGCM
P:3050B	280-21683-B-40-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-40-A		280-94332	280-91956	11/01/2011 22:50	1	TAL DEN	TEL
A:Moisture	280-21683-B-40		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-41** **Client ID:** **MG06 SB064**

Sample Date/Time: 10/15/2011 13:16 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-41-E		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-A-41-E		280-94192	280-92311	11/01/2011 13:46	1	TAL DEN	AGCM
P:3050B	280-21683-B-41-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-41-A		280-94332	280-91958	11/01/2011 23:07	1	TAL DEN	TEL
A:Moisture	280-21683-B-41		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-41 MS** **Client ID:** **MG06 SB064**

Sample Date/Time: 10/15/2011 13:16 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-B-41-B MS		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-41-B MS		280-94332	280-91958	11/01/2011 23:16	1	TAL DEN	TEL

Lab ID: **280-21683-41 MSD** **Client ID:** **MG06 SB064**

Sample Date/Time: 10/15/2011 13:16 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-B-41-C MSD		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-41-C MSD		280-94332	280-91958	11/01/2011 23:19	1	TAL DEN	TEL

Lab ID: **280-21683-41 SD** **Client ID:** **MG06 SB064**

Sample Date/Time: 10/15/2011 13:16 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-B-41-A SD ^5		280-94332	280-91958	11/01/2011 05:30	5	TAL DEN	CLI
A:6020A	280-21683-B-41-A SD ^5		280-94332	280-91958	11/01/2011 23:10	5	TAL DEN	TEL
P:3050B	280-21683-B-41-A PDS		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-41-A PDS		280-94332	280-91958	11/01/2011 23:13	1	TAL DEN	TEL

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-42** **Client ID:** **MG05 SB060**

Sample Date/Time: 10/15/2011 13:28 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-42-C		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-A-42-C		280-94192	280-92311	11/01/2011 14:00	1	TAL DEN	AGCM
P:3050B	280-21683-B-42-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-42-A		280-94332	280-91958	11/01/2011 23:22	1	TAL DEN	TEL
A:Moisture	280-21683-B-42		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-43** **Client ID:** **MG05 SB061**

Sample Date/Time: 10/15/2011 13:30 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-43-C		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-A-43-C		280-94192	280-92311	11/01/2011 14:14	1	TAL DEN	AGCM
P:3050B	280-21683-B-43-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-43-A		280-94332	280-91958	11/01/2011 23:25	1	TAL DEN	TEL
A:Moisture	280-21683-B-43		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-44** **Client ID:** **MG04 SB058**

Sample Date/Time: 10/15/2011 13:39 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-44-C		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-A-44-C		280-94192	280-92311	11/01/2011 14:27	1	TAL DEN	AGCM
P:3050B	280-21683-B-44-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-44-A		280-94332	280-91958	11/01/2011 23:36	1	TAL DEN	TEL
A:Moisture	280-21683-B-44		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-45** **Client ID:** **MG04 SB059**

Sample Date/Time: 10/15/2011 13:41 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-45-B		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-B-45-B		280-94192	280-92311	11/01/2011 14:41	1	TAL DEN	AGCM
P:3050B	280-21683-A-45-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-45-A		280-94332	280-91958	11/01/2011 23:39	1	TAL DEN	TEL
A:Moisture	280-21683-A-45		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-46 **Client ID: MG03 SB056**

Sample Date/Time: 10/15/2011 13:51 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-46-B		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-B-46-B		280-94192	280-92311	11/01/2011 14:54	1	TAL DEN	AGCM
P:3050B	280-21683-A-46-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-46-A		280-94332	280-91958	11/01/2011 23:42	1	TAL DEN	TEL
A:Moisture	280-21683-A-46		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-47 **Client ID: MG03 SB057**

Sample Date/Time: 10/15/2011 13:53 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-47-B		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-B-47-B		280-94192	280-92311	11/01/2011 15:22	1	TAL DEN	AGCM
P:3050B	280-21683-A-47-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-47-A		280-94332	280-91958	11/01/2011 23:45	1	TAL DEN	TEL
A:Moisture	280-21683-A-47		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-47 MS **Client ID: MG03 SB057**

Sample Date/Time: 10/15/2011 13:53 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-47-C MS		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-B-47-C MS		280-94192	280-92311	11/01/2011 15:36	1	TAL DEN	AGCM

Lab ID: 280-21683-47 MSD **Client ID: MG03 SB057**

Sample Date/Time: 10/15/2011 13:53 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-47-D MSD		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-B-47-D MSD		280-94192	280-92311	11/01/2011 15:50	1	TAL DEN	AGCM

Client: UXB International, Inc. | Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-48 | **Client ID: MG02 SB054**

Sample Date/Time: 10/15/2011 14:04 | Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-48-C		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-A-48-C		280-94192	280-92311	11/01/2011 16:03	1	TAL DEN	AGCM
P:3050B	280-21683-B-48-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-48-A		280-94332	280-91958	11/01/2011 23:48	1	TAL DEN	TEL
A:Moisture	280-21683-B-48		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-49 | **Client ID: MG02 SB055**

Sample Date/Time: 10/15/2011 14:06 | Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-49-B		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-B-49-B		280-94192	280-92311	11/01/2011 16:17	1	TAL DEN	AGCM
P:3050B	280-21683-A-49-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-49-A		280-94332	280-91958	11/01/2011 23:51	1	TAL DEN	TEL
A:Moisture	280-21683-A-49		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-50 | **Client ID: MG15 SB081**

Sample Date/Time: 10/15/2011 14:19 | Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-50-B		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-B-50-B		280-94192	280-92311	11/01/2011 16:30	1	TAL DEN	AGCM
P:3050B	280-21683-A-50-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-50-A		280-94332	280-91958	11/01/2011 23:54	1	TAL DEN	TEL
A:Moisture	280-21683-A-50		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-51 | **Client ID: MG15 SB082**

Sample Date/Time: 10/15/2011 14:22 | Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-51-B		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-B-51-B		280-94192	280-92311	11/01/2011 16:44	1	TAL DEN	AGCM
P:3050B	280-21683-A-51-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-51-A		280-94332	280-91958	11/01/2011 23:57	1	TAL DEN	TEL
A:Moisture	280-21683-A-51		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Client: UXB International, Inc.

Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-52 **Client ID: MG12 SB073**

Sample Date/Time: 10/15/2011 14:40 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-52-B		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	280-21683-B-52-B		280-94192	280-92311	11/01/2011 16:58	1	TAL DEN	AGCM
P:3050B	280-21683-A-52-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-52-A		280-94332	280-91958	11/02/2011 00:00	1	TAL DEN	TEL
A:Moisture	280-21683-A-52		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-53 **Client ID: MG12 SB075**

Sample Date/Time: 10/15/2011 14:40 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-53-B		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-B-53-B		280-94193	280-92097	11/01/2011 17:53	1	TAL DEN	AGCM
P:3050B	280-21683-A-53-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-53-A		280-94332	280-91958	11/02/2011 00:11	1	TAL DEN	TEL
A:Moisture	280-21683-A-53		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-54 **Client ID: MG12 SB074**

Sample Date/Time: 10/15/2011 14:43 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-54-C		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-54-C		280-94193	280-92097	11/01/2011 18:06	1	TAL DEN	AGCM
P:3050B	280-21683-B-54-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-54-A		280-94332	280-91958	11/02/2011 00:14	1	TAL DEN	TEL
A:Moisture	280-21683-B-54		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-54 MS **Client ID: MG12 SB074**

Sample Date/Time: 10/15/2011 14:43 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-54-D MS		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-54-D MS		280-94193	280-92097	11/01/2011 18:20	1	TAL DEN	AGCM

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-54 MSD **Client ID: MG12 SB074**

Sample Date/Time: 10/15/2011 14:43 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-54-E MSD		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-54-E MSD		280-94193	280-92097	11/01/2011 18:33	1	TAL DEN	AGCM

Lab ID: 280-21683-55 **Client ID: MG11 SB071**

Sample Date/Time: 10/15/2011 14:55 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-55-C		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-55-C		280-94193	280-92097	11/01/2011 18:47	1	TAL DEN	AGCM
P:3050B	280-21683-B-55-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-55-A		280-94332	280-91958	11/02/2011 00:17	1	TAL DEN	TEL
A:Moisture	280-21683-B-55		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-56 **Client ID: MG11 SB072**

Sample Date/Time: 10/15/2011 14:57 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-56-C		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-56-C		280-94193	280-92097	11/01/2011 19:00	1	TAL DEN	AGCM
P:3050B	280-21683-B-56-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-56-A		280-94332	280-91958	11/02/2011 00:20	1	TAL DEN	TEL
A:Moisture	280-21683-B-56		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-57 **Client ID: MG14 SB079**

Sample Date/Time: 10/15/2011 15:12 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-57-B		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-B-57-B		280-94193	280-92097	11/01/2011 19:28	1	TAL DEN	AGCM
P:3050B	280-21683-A-57-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-57-A		280-94332	280-91958	11/02/2011 00:23	1	TAL DEN	TEL
A:Moisture	280-21683-A-57		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-58** **Client ID:** **MG14 SB080**

Sample Date/Time: 10/15/2011 15:15 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-58-B		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-B-58-B		280-94193	280-92097	11/01/2011 19:42	1	TAL DEN	AGCM
P:3050B	280-21683-A-58-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-58-A		280-94332	280-91958	11/02/2011 00:26	1	TAL DEN	TEL
A:Moisture	280-21683-A-58		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: **280-21683-59** **Client ID:** **MG13 SB077**

Sample Date/Time: 10/15/2011 15:24 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-59-C		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-59-C		280-94193	280-92097	11/01/2011 19:55	1	TAL DEN	AGCM
P:3050B	280-21683-B-59-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-59-A		280-94332	280-91958	11/02/2011 00:29	1	TAL DEN	TEL
A:Moisture	280-21683-B-59		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: **280-21683-60** **Client ID:** **MG13 SB078**

Sample Date/Time: 10/15/2011 15:26 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-60-B		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-B-60-B		280-94193	280-92097	11/01/2011 20:09	1	TAL DEN	AGCM
P:3050B	280-21683-A-60-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-60-A		280-94332	280-91958	11/02/2011 00:32	1	TAL DEN	TEL
A:Moisture	280-21683-A-60		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: **280-21683-61** **Client ID:** **MG16 SB083**

Sample Date/Time: 10/15/2011 15:37 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-61-B		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-B-61-B		280-94193	280-92097	11/01/2011 20:22	1	TAL DEN	AGCM
P:3050B	280-21683-A-61-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-61-A		280-94332	280-91960	11/02/2011 00:49	1	TAL DEN	TEL
A:Moisture	280-21683-A-61		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Client: UXB International, Inc.　　　　Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-61 MS　　**Client ID: MG16 SB083**

Sample Date/Time: 10/15/2011 15:37　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-61-B MS		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-61-B MS		280-94332	280-91960	11/02/2011 00:58	1	TAL DEN	TEL

Lab ID: 280-21683-61 MSD　　**Client ID: MG16 SB083**

Sample Date/Time: 10/15/2011 15:37　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-61-C MSD		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-61-C MSD		280-94332	280-91960	11/02/2011 01:01	1	TAL DEN	TEL

Lab ID: 280-21683-61 SD　　**Client ID: MG16 SB083**

Sample Date/Time: 10/15/2011 15:37　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-61-A SD ^5		280-94332	280-91960	11/01/2011 05:30	5	TAL DEN	CLI
A:6020A	280-21683-A-61-A SD ^5		280-94332	280-91960	11/02/2011 00:52	5	TAL DEN	TEL
P:3050B	280-21683-A-61-A PDS		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-61-A PDS		280-94332	280-91960	11/02/2011 00:55	1	TAL DEN	TEL

Lab ID: 280-21683-62　　**Client ID: MG16 SB084**

Sample Date/Time: 10/15/2011 15:40　　Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-62-C		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-62-C		280-94193	280-92097	11/01/2011 20:36	1	TAL DEN	AGCM
P:3050B	280-21683-B-62-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-62-A		280-94332	280-91960	11/02/2011 01:04	1	TAL DEN	TEL
A:Moisture	280-21683-B-62		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-63 Client ID: MG09 SB069

Sample Date/Time: 10/15/2011 16:01 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-63-C		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-63-C		280-94193	280-92097	11/01/2011 20:49	1	TAL DEN	AGCM
P:3050B	280-21683-B-63-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-63-A		280-94332	280-91960	11/02/2011 01:15	1	TAL DEN	TEL
A:Moisture	280-21683-B-63		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-64 Client ID: MG09 SB070

Sample Date/Time: 10/15/2011 16:03 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-64-C		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-64-C		280-94193	280-92097	11/01/2011 21:03	1	TAL DEN	AGCM
P:3050B	280-21683-B-64-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-64-A		280-94332	280-91960	11/02/2011 01:18	1	TAL DEN	TEL
A:Moisture	280-21683-B-64		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-65 Client ID: MG08 SB067

Sample Date/Time: 10/15/2011 16:14 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-65-B		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-B-65-B		280-94193	280-92097	11/01/2011 21:30	1	TAL DEN	AGCM
P:3050B	280-21683-A-65-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-65-A		280-94332	280-91960	11/02/2011 01:21	1	TAL DEN	TEL
A:Moisture	280-21683-A-65		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-66 Client ID: MG08 SB068

Sample Date/Time: 10/15/2011 16:17 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-66-B		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-B-66-B		280-94193	280-92097	11/01/2011 21:44	1	TAL DEN	AGCM
P:3050B	280-21683-A-66-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-66-A		280-94332	280-91960	11/02/2011 01:24	1	TAL DEN	TEL
A:Moisture	280-21683-A-66		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-67** **Client ID:** **MG07 SB065**

Sample Date/Time: 10/15/2011 16:28 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-67-C		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-67-C		280-94193	280-92097	11/01/2011 21:58	1	TAL DEN	AGCM
P:3050B	280-21683-B-67-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-67-A		280-94332	280-91960	11/02/2011 01:27	1	TAL DEN	TEL
A:Moisture	280-21683-B-67		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-68** **Client ID:** **MG07 SB066**

Sample Date/Time: 10/15/2011 16:29 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-68-C		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-68-C		280-94193	280-92097	11/01/2011 22:11	1	TAL DEN	AGCM
P:3050B	280-21683-B-68-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-68-A		280-94332	280-91960	11/02/2011 01:30	1	TAL DEN	TEL
A:Moisture	280-21683-B-68		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-69** **Client ID:** **MG17 SB085**

Sample Date/Time: 10/15/2011 16:41 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-69-C		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-69-C		280-94193	280-92097	11/01/2011 22:25	1	TAL DEN	AGCM
P:3050B	280-21683-B-69-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-69-A		280-94332	280-91960	11/02/2011 01:33	1	TAL DEN	TEL
A:Moisture	280-21683-B-69		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-70** **Client ID:** **MG17 SB086**

Sample Date/Time: 10/15/2011 16:43 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-70-C		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-70-C		280-94193	280-92097	11/01/2011 22:38	1	TAL DEN	AGCM
P:3050B	280-21683-B-70-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-70-A		280-94332	280-91960	11/02/2011 01:36	1	TAL DEN	TEL
A:Moisture	280-21683-B-70		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-71 **Client ID: MG17 SB087**

Sample Date/Time: 10/15/2011 16:43 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-71-C		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-71-C		280-94193	280-92097	11/01/2011 22:52	1	TAL DEN	AGCM
P:3050B	280-21683-B-71-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-71-A		280-94332	280-91960	11/02/2011 01:47	1	TAL DEN	TEL
A:Moisture	280-21683-B-71		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-72 **Client ID: MG18 SB088**

Sample Date/Time: 10/15/2011 16:56 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-72-C		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	280-21683-A-72-C		280-94193	280-92097	11/01/2011 23:06	1	TAL DEN	AGCM
P:3050B	280-21683-B-72-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-72-A		280-94332	280-91960	11/02/2011 01:50	1	TAL DEN	TEL
A:Moisture	280-21683-B-72		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-73 **Client ID: MG18 SB089**

Sample Date/Time: 10/15/2011 16:58 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-73-C		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-A-73-C		280-94194	280-92102	11/02/2011 00:01	1	TAL DEN	AGCM
P:3050B	280-21683-B-73-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-73-A		280-94332	280-91960	11/02/2011 01:53	1	TAL DEN	TEL
A:Moisture	280-21683-B-73		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-74 **Client ID: CP01 IS01**

Sample Date/Time: 10/16/2011 11:50 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-74-D		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21683-A-74-D		280-94252	280-93548	11/02/2011 07:17	1	TAL DEN	AGCM
P:3050B	280-21683-A-74-E		280-94600	280-94043	11/02/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-74-E		280-94600	280-94043	11/02/2011 23:01	1	TAL DEN	TEL

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-75** **Client ID:** **CP01 IS02**

Sample Date/Time: 10/16/2011 13:21 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-75-D		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21683-A-75-D		280-94252	280-93548	11/02/2011 07:30	1	TAL DEN	AGCM
P:3050B	280-21683-A-75-E		280-94600	280-94043	11/02/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-75-E		280-94600	280-94043	11/02/2011 23:27	1	TAL DEN	TEL

Lab ID: **280-21683-76** **Client ID:** **CP01 IS03**

Sample Date/Time: 10/16/2011 14:32 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-76-D		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21683-A-76-D		280-94252	280-93548	11/02/2011 07:44	1	TAL DEN	AGCM
P:3050B	280-21683-A-76-G		280-94600	280-94043	11/02/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-76-G		280-94600	280-94043	11/02/2011 23:12	1	TAL DEN	TEL

Lab ID: **280-21683-76 MS** **Client ID:** **CP01 IS03**

Sample Date/Time: 10/16/2011 14:32 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-76-H MS		280-94600	280-94043	11/02/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-76-H MS		280-94600	280-94043	11/02/2011 23:21	1	TAL DEN	TEL

Lab ID: **280-21683-76 MSD** **Client ID:** **CP01 IS03**

Sample Date/Time: 10/16/2011 14:32 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-76-I MSD		280-94600	280-94043	11/02/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-76-I MSD		280-94600	280-94043	11/02/2011 23:24	1	TAL DEN	TEL

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-76 SD** **Client ID:** **CP01 IS03**

Sample Date/Time: 10/16/2011 14:32 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-76-G SD ^5		280-94600	280-94043	11/02/2011 14:00	5	TAL DEN	JM
A:6020A	280-21683-A-76-G SD ^5		280-94600	280-94043	11/02/2011 23:15	5	TAL DEN	TEL
P:3050B	280-21683-A-76-G PDS		280-94600	280-94043	11/02/2011 14:00	1	TAL DEN	JM
A:6020A	280-21683-A-76-G PDS		280-94600	280-94043	11/02/2011 23:18	1	TAL DEN	TEL

Lab ID: **280-21683-77** **Client ID:** **CP10 SB014**

Sample Date/Time: 10/16/2011 11:20 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-77-B		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-B-77-B		280-94194	280-92102	11/02/2011 00:14	1	TAL DEN	AGCM
P:3050B	280-21683-A-77-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-77-A		280-94332	280-91960	11/02/2011 01:56	1	TAL DEN	TEL
A:Moisture	280-21683-A-77		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: **280-21683-78** **Client ID:** **CP10 SB015**

Sample Date/Time: 10/16/2011 11:24 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-78-B		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-B-78-B		280-94194	280-92102	11/02/2011 00:28	1	TAL DEN	AGCM
P:3050B	280-21683-A-78-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-78-A		280-94332	280-91960	11/02/2011 01:59	1	TAL DEN	TEL
A:Moisture	280-21683-A-78		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: **280-21683-79** **Client ID:** **CP09 SB012**

Sample Date/Time: 10/16/2011 11:40 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-79-C		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-A-79-C		280-94194	280-92102	11/02/2011 00:41	1	TAL DEN	AGCM
P:3050B	280-21683-B-79-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-B-79-A		280-94332	280-91960	11/02/2011 02:02	1	TAL DEN	TEL
A:Moisture	280-21683-B-79		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-80 **Client ID: CP09 SB013**

Sample Date/Time: 10/16/2011 11:42 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-80-B		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-B-80-B		280-94194	280-92102	11/02/2011 00:55	1	TAL DEN	AGCM
P:3050B	280-21683-A-80-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	280-21683-A-80-A		280-94332	280-91960	11/02/2011 02:05	1	TAL DEN	TEL
A:Moisture	280-21683-A-80		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-80 MS **Client ID: CP09 SB013**

Sample Date/Time: 10/16/2011 11:42 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-80-C MS		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-B-80-C MS		280-94194	280-92102	11/02/2011 01:09	1	TAL DEN	AGCM

Lab ID: 280-21683-80 MSD **Client ID: CP09 SB013**

Sample Date/Time: 10/16/2011 11:42 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-80-D MSD		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-B-80-D MSD		280-94194	280-92102	11/02/2011 01:22	1	TAL DEN	AGCM

Lab ID: 280-21683-81 **Client ID: CP08 SB009**

Sample Date/Time: 10/16/2011 11:55 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-81-E		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-A-81-E		280-94194	280-92102	11/02/2011 01:50	1	TAL DEN	AGCM
P:3050B	280-21683-A-81-B		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-81-B		280-94600	280-91961	11/03/2011 01:51	1	TAL DEN	TEL
A:Moisture	280-21683-B-81		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-81 MS **Client ID: CP08 SB009**

Sample Date/Time: 10/16/2011 11:55 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-81-C MS		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-81-C MS		280-94600	280-91961	11/03/2011 02:00	1	TAL DEN	TEL

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-81 MSD **Client ID: CP08 SB009**

Sample Date/Time: 10/16/2011 11:55 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-81-D MSD		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-81-D MSD		280-94600	280-91961	11/03/2011 02:03	1	TAL DEN	TEL

Lab ID: 280-21683-81 DU **Client ID: CP08 SB009**

Sample Date/Time: 10/16/2011 11:55 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	280-21683-B-81 DU		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-81 SD **Client ID: CP08 SB009**

Sample Date/Time: 10/16/2011 11:55 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21683-A-81-B SD ^5		280-94600	280-91961	11/02/2011 18:00	5	TAL DEN	JM
A:6020A	280-21683-A-81-B SD ^5		280-94600	280-91961	11/03/2011 01:54	5	TAL DEN	TEL
P:3050B	280-21683-A-81-B PDS		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-81-B PDS		280-94600	280-91961	11/03/2011 01:57	1	TAL DEN	TEL

Lab ID: 280-21683-82 **Client ID: CP08 SB010**

Sample Date/Time: 10/16/2011 11:59 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-82-C		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-A-82-C		280-94194	280-92102	11/02/2011 02:03	1	TAL DEN	AGCM
P:3050B	280-21683-A-82-B		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-82-B		280-94600	280-91961	11/03/2011 02:05	1	TAL DEN	TEL
A:Moisture	280-21683-B-82		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: 280-21683-83 **Client ID: CP08 SB011**

Sample Date/Time: 10/16/2011 11:59 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-83-C		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-A-83-C		280-94194	280-92102	11/02/2011 02:17	1	TAL DEN	AGCM
P:3050B	280-21683-A-83-B		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-83-B		280-94600	280-91961	11/03/2011 02:18	1	TAL DEN	TEL
A:Moisture	280-21683-B-83		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-84 **Client ID: CP11 SB16A**

Sample Date/Time: 10/16/2011 12:41 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-84-B		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-B-84-B		280-94194	280-92102	11/02/2011 02:30	1	TAL DEN	AGCM
P:3050B	280-21683-A-84-A		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-84-A		280-94600	280-91961	11/03/2011 02:21	1	TAL DEN	TEL
A:Moisture	280-21683-A-84		280-92133		10/20/2011 07:41	1	TAL DEN	PBB

Lab ID: 280-21683-85 **Client ID: CP11 SB16B**

Sample Date/Time: 10/16/2011 12:43 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-85-C		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-A-85-C		280-94194	280-92102	11/02/2011 02:44	1	TAL DEN	AGCM
P:3050B	280-21683-A-85-B		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-85-B		280-94600	280-91961	11/03/2011 02:24	1	TAL DEN	TEL
A:Moisture	280-21683-B-85		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: 280-21683-86 **Client ID: CP07 SB007**

Sample Date/Time: 10/16/2011 13:00 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-86-C		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-A-86-C		280-94194	280-92102	11/02/2011 02:58	1	TAL DEN	AGCM
P:3050B	280-21683-A-86-B		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-86-B		280-94600	280-91961	11/03/2011 02:27	1	TAL DEN	TEL
A:Moisture	280-21683-B-86		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Client: UXB International, Inc.

Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-87** **Client ID:** **CP07 SB008**

Sample Date/Time: 10/16/2011 13:03 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-87-C		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-A-87-C		280-94194	280-92102	11/02/2011 03:11	1	TAL DEN	AGCM
P:3050B	280-21683-A-87-B		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-87-B		280-94600	280-91961	11/03/2011 02:30	1	TAL DEN	TEL
A:Moisture	280-21683-B-87		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-88** **Client ID:** **CP04 SB001**

Sample Date/Time: 10/16/2011 13:20 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-88-C		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-A-88-C		280-94194	280-92102	11/02/2011 03:25	1	TAL DEN	AGCM
P:3050B	280-21683-A-88-B		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-88-B		280-94600	280-91961	11/03/2011 02:33	1	TAL DEN	TEL
A:Moisture	280-21683-B-88		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-89** **Client ID:** **CP04 SB002**

Sample Date/Time: 10/16/2011 13:25 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-89-C		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-A-89-C		280-94194	280-92102	11/02/2011 03:52	1	TAL DEN	AGCM
P:3050B	280-21683-A-89-B		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-89-B		280-94600	280-91961	11/03/2011 02:36	1	TAL DEN	TEL
A:Moisture	280-21683-B-89		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-90** **Client ID:** **CP06 SB005**

Sample Date/Time: 10/16/2011 13:40 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-90-B		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-B-90-B		280-94194	280-92102	11/02/2011 04:06	1	TAL DEN	AGCM
P:3050B	280-21683-A-90-A		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-90-A		280-94600	280-91961	11/03/2011 02:47	1	TAL DEN	TEL
A:Moisture	280-21683-A-90		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Client: UXB International, Inc.

Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-91** **Client ID:** **CP06 SB006**

Sample Date/Time: 10/16/2011 13:43 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-91-C		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-A-91-C		280-94194	280-92102	11/02/2011 04:20	1	TAL DEN	AGCM
P:3050B	280-21683-A-91-B		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-91-B		280-94600	280-91961	11/03/2011 02:50	1	TAL DEN	TEL
A:Moisture	280-21683-B-91		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-92** **Client ID:** **CP05 SB003**

Sample Date/Time: 10/16/2011 14:01 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-92-B		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-B-92-B		280-94194	280-92102	11/02/2011 04:33	1	TAL DEN	AGCM
P:3050B	280-21683-A-92-A		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-92-A		280-94600	280-91961	11/03/2011 02:53	1	TAL DEN	TEL
A:Moisture	280-21683-A-92		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-93** **Client ID:** **CP05 SB004**

Sample Date/Time: 10/16/2011 14:04 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-A-93-C		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-A-93-C		280-94194	280-92102	11/02/2011 04:47	1	TAL DEN	AGCM
P:3050B	280-21683-A-93-B		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-93-B		280-94600	280-91961	11/03/2011 02:56	1	TAL DEN	TEL
A:Moisture	280-21683-B-93		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-93 DU** **Client ID:** **CP05 SB004**

Sample Date/Time: 10/16/2011 14:04 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	280-21683-B-93 DU		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **280-21683-94** **Client ID:** **CP12 SB017**

Sample Date/Time: 10/16/2011 15:22 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-94-B		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-B-94-B		280-94194	280-92102	11/02/2011 05:00	1	TAL DEN	AGCM
P:3050B	280-21683-A-94-A		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-94-A		280-94600	280-91961	11/03/2011 02:59	1	TAL DEN	TEL
A:Moisture	280-21683-A-94		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Lab ID: **280-21683-95** **Client ID:** **CP12 SB018**

Sample Date/Time: 10/16/2011 15:25 Received Date/Time: 10/18/2011 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21683-B-95-B		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	280-21683-B-95-B		280-94194	280-92102	11/02/2011 05:14	1	TAL DEN	AGCM
P:3050B	280-21683-A-95-A		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	280-21683-A-95-A		280-94600	280-91961	11/03/2011 03:02	1	TAL DEN	TEL
A:Moisture	280-21683-A-95		280-91906		10/19/2011 12:22	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	MB 280-92314/1-A		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	MB 280-92314/1-A		280-92961	280-92314	10/25/2011 13:47	1	TAL DEN	AGCM
P:8330B	MB 280-92315/1-A		280-92964	280-92315	10/20/2011 19:15	1	TAL DEN	CDC
A:8321B	MB 280-92315/1-A		280-92964	280-92315	10/25/2011 19:55	1	TAL DEN	AGCM
P:8330B	MB 280-92311/1-A		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	MB 280-92311/1-A		280-94192	280-92311	11/01/2011 11:14	1	TAL DEN	AGCM
P:8330B	MB 280-92097/1-A		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	MB 280-92097/1-A		280-94193	280-92097	11/01/2011 17:25	1	TAL DEN	AGCM
P:8330B	MB 280-92102/1-A		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	MB 280-92102/1-A		280-94194	280-92102	11/01/2011 23:33	1	TAL DEN	AGCM
P:8330B	MB 280-93548/1-A		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	MB 280-93548/1-A		280-94252	280-93548	11/02/2011 05:42	1	TAL DEN	AGCM
P:3050B	MB 280-91954/1-A		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	MB 280-91954/1-A		280-94332	280-91954	11/01/2011 19:41	1	TAL DEN	TEL
P:3050B	MB 280-91956/1-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	MB 280-91956/1-A		280-94332	280-91956	11/01/2011 21:17	1	TAL DEN	TEL
P:3050B	MB 280-91958/1-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	MB 280-91958/1-A		280-94332	280-91958	11/01/2011 23:02	1	TAL DEN	TEL
P:3050B	MB 280-91960/1-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	MB 280-91960/1-A		280-94332	280-91960	11/02/2011 00:43	1	TAL DEN	TEL
P:3050B	MB 280-94043/1-A		280-94600	280-94043	11/02/2011 14:00	1	TAL DEN	JM
A:6020A	MB 280-94043/1-A		280-94600	280-94043	11/02/2011 22:46	1	TAL DEN	TEL
P:3050B	MB 280-94294/1-A		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	MB 280-94294/1-A		280-94600	280-94294	11/03/2011 00:12	1	TAL DEN	TEL
P:3050B	MB 280-91961/1-A		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	MB 280-91961/1-A		280-94600	280-91961	11/03/2011 01:45	1	TAL DEN	TEL

Lab ID: **GB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	GB 280-92116/1-B		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	GB 280-92116/1-B		280-94252	280-93548	11/02/2011 06:09	1	TAL DEN	AGCM

Client: UXB International, Inc. Job Number: 280-21683-1

Laboratory Chronicle

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	LCS 280-92314/2-A		280-92961	280-92314	10/20/2011 19:17	1	TAL DEN	CDC
A:8321B	LCS 280-92314/2-A		280-92961	280-92314	10/25/2011 14:00	1	TAL DEN	AGCM
P:8330B	LCS 280-92315/2-A		280-92964	280-92315	10/20/2011 19:15	1	TAL DEN	CDC
A:8321B	LCS 280-92315/2-A		280-92964	280-92315	10/25/2011 20:09	1	TAL DEN	AGCM
P:8330B	LCS 280-92311/2-A		280-94192	280-92311	10/20/2011 19:23	1	TAL DEN	CDC
A:8321B	LCS 280-92311/2-A		280-94192	280-92311	11/01/2011 11:28	1	TAL DEN	AGCM
P:8330B	LCS 280-92097/2-A		280-94193	280-92097	10/19/2011 19:21	1	TAL DEN	CDC
A:8321B	LCS 280-92097/2-A		280-94193	280-92097	11/01/2011 17:39	1	TAL DEN	AGCM
P:8330B	LCS 280-92102/2-A		280-94194	280-92102	10/19/2011 20:50	1	TAL DEN	CDC
A:8321B	LCS 280-92102/2-A		280-94194	280-92102	11/01/2011 23:47	1	TAL DEN	AGCM
P:8330B	LCS 280-93548/2-A		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	LCS 280-93548/2-A		280-94252	280-93548	11/02/2011 05:55	1	TAL DEN	AGCM
P:3050B	LCS 280-91954/2-A		280-94332	280-91954	10/31/2011 14:00	1	TAL DEN	JM
A:6020A	LCS 280-91954/2-A		280-94332	280-91954	11/01/2011 19:44	1	TAL DEN	TEL
P:3050B	LCS 280-91956/2-A		280-94332	280-91956	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	LCS 280-91956/2-A		280-94332	280-91956	11/01/2011 21:20	1	TAL DEN	TEL
P:3050B	LCS 280-91958/2-A		280-94332	280-91958	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	LCS 280-91958/2-A		280-94332	280-91958	11/01/2011 23:05	1	TAL DEN	TEL
P:3050B	LCS 280-91960/2-A		280-94332	280-91960	11/01/2011 05:30	1	TAL DEN	CLI
A:6020A	LCS 280-91960/2-A		280-94332	280-91960	11/02/2011 00:46	1	TAL DEN	TEL
P:3050B	LCS 280-94043/2-A		280-94600	280-94043	11/02/2011 14:00	1	TAL DEN	JM
A:6020A	LCS 280-94043/2-A		280-94600	280-94043	11/02/2011 22:49	1	TAL DEN	TEL
P:3050B	LCS 280-94294/2-A		280-94600	280-94294	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	LCS 280-94294/2-A		280-94600	280-94294	11/03/2011 00:15	1	TAL DEN	TEL
P:3050B	LCS 280-91961/2-A		280-94600	280-91961	11/02/2011 18:00	1	TAL DEN	JM
A:6020A	LCS 280-91961/2-A		280-94600	280-91961	11/03/2011 01:48	1	TAL DEN	TEL

Lab ID: **LCSSRM** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	LCSSRM 280-92116/2-B		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	LCSSRM 280-92116/2-B		280-94252	280-93548	11/02/2011 06:23	1	TAL DEN	AGCM

Lab References:
TAL DEN = TestAmerica Denver

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
8321EXcalprim_00006	10/21/11	03/30/11	acn, Lot K06817	10 mL	8231NG_00004	1 mL	Nitroglycerin	10 ug/mL
					8321EX-Mix_00004	0.1 mL	1,3,5-Trinitrobenzene	10.01 ug/mL
							1,3-Dinitrobenzene	10.14 ug/mL
							2,4,6-Trinitrotoluene	10.01 ug/mL
							2,4-Dinitrotoluene	10.03 ug/mL
							2,6-Dinitrotoluene	10.01 ug/mL
							2-Amino-4,6-dinitrotoluene	10.01 ug/mL
							2-Nitrotoluene	9.91 ug/mL
							3-Nitrotoluene	9.88 ug/mL
							4-Amino-2,6-dinitrotoluene	9.87 ug/mL
							4-Nitrotoluene	9.95 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	9.99 ug/mL
							RDX	9.87 ug/mL
							Tetryl	9.94 ug/mL
					8321PETN_00004	1 mL	PETN	9.98 ug/mL
.8231NG_00004	09/13/12		Accustandard, Lot 210091093		(Purchased Reagent)		Nitroglycerin	100 ug/mL
.8321EX-Mix_00004	10/21/11		AccuStandard, Lot 209101177		(Purchased Reagent)		1,3,5-Trinitrobenzene	1001 ug/mL
							1,3-Dinitrobenzene	1014 ug/mL
							2,4,6-Trinitrotoluene	1001 ug/mL
							2,4-Dinitrotoluene	1003 ug/mL
							2,6-Dinitrotoluene	1001 ug/mL
							2-Amino-4,6-dinitrotoluene	1001 ug/mL
							2-Nitrotoluene	991 ug/mL
							3-Nitrotoluene	988 ug/mL
							4-Amino-2,6-dinitrotoluene	987 ug/mL
							4-Nitrotoluene	995 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	999 ug/mL
							RDX	987 ug/mL
							Tetryl	994 ug/mL
.8321PETN_00004	04/15/12		Accustandard, Lot 210041174		(Purchased Reagent)		PETN	99.8 ug/mL
8321EXcalprim_00007	04/15/12	03/30/11	acn, Lot K06817	10 mL	8231NG_00004	1 mL	Nitroglycerin	10 ug/mL
					8321EX-Mix_00005	0.1 mL	1,3,5-Trinitrobenzene	10.01 ug/mL
							1,3-Dinitrobenzene	10.14 ug/mL
							2,4,6-Trinitrotoluene	10.01 ug/mL
							2,4-Dinitrotoluene	10.03 ug/mL
							2,6-Dinitrotoluene	10.01 ug/mL
							2-Amino-4,6-dinitrotoluene	10.01 ug/mL
							2-Nitrotoluene	9.91 ug/mL
							3-Nitrotoluene	9.88 ug/mL
							4-Amino-2,6-dinitrotoluene	9.87 ug/mL
							4-Nitrotoluene	9.95 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	9.99 ug/mL
							RDX	9.87 ug/mL
							Tetryl	9.94 ug/mL
					8321PETN_00004	1 mL	PETN	9.98 ug/mL
.8231NG_00004	09/13/12		Accustandard, Lot 210091093		(Purchased Reagent)		Nitroglycerin	100 ug/mL
.8321EX-Mix_00005	04/21/12		AccuStandard, Lot 209101177		(Purchased Reagent)		1,3,5-Trinitrobenzene	1001 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
							1,3-Dinitrobenzene	1014 ug/mL
							2,4,6-Trinitrotoluene	1001 ug/mL
							2,4-Dinitrotoluene	1003 ug/mL
							2,6-Dinitrotoluene	1001 ug/mL
							2-Amino-4,6-dinitrotoluene	1001 ug/mL
							2-Nitrotoluene	991 ug/mL
							3-Nitrotoluene	988 ug/mL
							4-Amino-2,6-dinitrotoluene	987 ug/mL
							4-Nitrotoluene	995 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	999 ug/mL
							RDX	987 ug/mL
							Tetryl	994 ug/mL
.8321PETN_00004	04/15/12		Accustandard, Lot 210041174		(Purchased Reagent)		PETN	99.8 ug/mL
8321expICV_00005	12/22/11	03/30/11	acn:0.1%HAC, Lot K06817	10 mL	EXP-SS-MIX_00003	100 uL	2,6-Dinitrotoluene	10 ug/mL
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							Tetryl	10 ug/mL
					EXP-SS-MIX1_00003	100 uL	1,3,5-Trinitrobenzene	9.99992 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 ug/mL
							2,4-Dinitrotoluene	9.99992 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
					EXP-SS-NG_00004	100 uL	Nitroglycerin	10 ug/mL
					EXP-SS-PETN_00003	100 uL	PETN	10 ug/mL
.EXP-SS-MIX_00003	12/22/11		Restek, Lot A060936		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.EXP-SS-MIX1_00003	12/22/11		Restek, Lot A057253		(Purchased Reagent)		1,3,5-Trinitrobenzene	999.992 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	999.992 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.EXP-SS-NG_00004	12/22/11		Restek, Lot A067062		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.EXP-SS-PETN_00003	12/22/11		Restek, Lot A067064		(Purchased Reagent)		PETN	1000 ug/mL
8321ExplosLCS_00010	04/13/12	10/13/11	Acetonitrile, Lot K27815	250 mL	8330 LCSMix2_00035	1 mL	2,6-Dinitrotoluene	4 ug/mL
							2-Amino-4,6-dinitrotoluene	4 ug/mL
							2-Nitrotoluene	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
							3-Nitrotoluene	4 ug/mL
							4-Amino-2,6-dinitrotoluene	4 ug/mL
							4-Nitrotoluene	4 ug/mL
							Tetryl	4 ug/mL
					8330LCSMix1_00036	1 mL	1,3,5-Trinitrobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							2,4,6-Trinitrotoluene	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							HMX	4 ug/mL
							Nitrobenzene	4 ug/mL
							RDX	4 ug/mL
					NG&PETNRestek_00017	0.1 mL	Nitroglycerin	4 ug/mL
							PETN	4 ug/mL
					PicricARestek_00016	0.1 mL	2,4,6-Trinitrophenol	0.4 ug/mL
.8330 LCSMix2_00035	09/30/14		Restek, Lot A069852		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.8330LCSMix1_00036	08/31/13		Restek, Lot A062123		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.NG&PETNRestek_00017	01/13/14		Restek, Lot A079120		(Purchased Reagent)		Nitroglycerin	10000 ug/mL
							PETN	10000 ug/mL
.PicricARestek_00016	02/28/16		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
8321ExplosSur_00015	01/18/12	10/06/11	Acetonitrile, Lot K27815	200 mL	8321NB-D5-1_00004	66 uL	Nitrobenzene-d5	3.95307 ug/mL
.8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
..8321NB-D5_00002	01/20/16		Cambridge Isotope, Lot PR-20474/06199NB1		(Purchased Reagent)		Nitrobenzene-d5	99 %
8321ExplosSur_00016	01/18/12	10/20/11	Acetonitrile, Lot K18824	200 mL	8321NB-D5-1_00004	66 uL	Nitrobenzene-d5	3.95307 ug/mL
.8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
..8321NB-D5_00002	01/20/16		Cambridge Isotope, Lot PR-20474/06199NB1		(Purchased Reagent)		Nitrobenzene-d5	99 %
8321ExplosSur_00017	01/18/12	10/25/11	Acetonitrile, Lot K18824	200 mL	8321NB-D5-1_00004	66 uL	Nitrobenzene-d5	3.95307 ug/mL
.8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
..8321NB-D5_00002	01/20/16		Cambridge Isotope, Lot PR-20474/06199NB1		(Purchased Reagent)		Nitrobenzene-d5	99 %
8321NB-D5-cal_00003	01/18/12	01/19/11	ACN, Lot j48808	10 mL	8321NB-D5-2_00003	1 mL	Nitrobenzene-d5	10.0025 ug/mL
.8321NB-D5-2_00003	01/18/12	01/19/11	ACN, Lot j48808	10 mL	8321NB-D5-1_00004	0.0835 mL	Nitrobenzene-d5	100.025 ug/mL
..8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
...8321NB-D5_00002	01/20/16		Cambridge Isotope, Lot PR-20474/06199NB1		(Purchased Reagent)		Nitrobenzene-d5	99 %
8330 GrindLCS_00067	09/30/12		Wibby, Lot B20110906		(Purchased Reagent)		1,3,5-Trinitrobenzene	[illegible] ug/Kg

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
							1,3-Dinitrobenzene	602 ug/Kg
							2,4,6-Trinitrotoluene	600 ug/Kg
							2,4-Dinitrotoluene	600 ug/Kg
							2,6-Dinitrotoluene	602 ug/Kg
							2-Amino-4,6-dinitrotoluene	600 ug/Kg
							2-Nitrotoluene	604 ug/Kg
							3-Nitrotoluene	599 ug/Kg
							4-Amino-2,6-dinitrotoluene	600 ug/Kg
							4-Nitrotoluene	603 ug/Kg
							HMX	600 ug/Kg
							Nitrobenzene	602 ug/Kg
							Nitroglycerin	600 ug/Kg
							PETN	600 ug/Kg
							RDX	600 ug/Kg
DupontDNTCal_00004	03/01/12	03/16/11	ACN, Lot J48808	10 mL	3,5-dnt stock_00009	0.1 mL	3,5-Dinitrotoluene	10 ug/mL
					Dupont Stock_00002	1 mL	2,3-Dinitrotoluene	9.99791 ug/mL
							3,4-Dinitrotoluene	10.004 ug/mL
.3,5-dnt stock_00009	07/09/20		Accustandard, Lot 210071094		(Purchased Reagent)		3,5-Dinitrotoluene	1000 ug/mL
.Dupont Stock_00002	03/01/12	03/01/11	Acetonitrile, Lot H48808	10 mL	2,3-DNT Prim_00004	229 uL	2,3-Dinitrotoluene	99.9791 ug/mL
					3,4-DNT Prim_00002	235 uL	3,4-Dinitrotoluene	100.04 ug/mL
..2,3-DNT Prim_00004	03/01/12	03/01/11	Acetonitrile, Lot H48808	10 mL	2,3DNT Neat_00001	0.0441 g	2,3-Dinitrotoluene	4365.9 ug/mL
...2,3DNT Neat_00001	10/30/12		Sigma-Aldrich, Lot 2080x		(Purchased Reagent)		2,3-Dinitrotoluene	0.99 g/g
..3,4-DNT Prim_00002	03/01/12	03/01/12	Acetonitrile, Lot H48808	10 mL	3,4-DNT Neat_00001	0.043 g	3,4-Dinitrotoluene	4257 ug/mL
...3,4-DNT Neat_00001	10/30/12		Aldrich, Lot 05713ca		(Purchased Reagent)		3,4-Dinitrotoluene	0.99 g/g
EXPWORKINGIS_00027	12/28/11	10/13/11	Acetonitrile, Lot K18824	10 mL	83212,4DNTIS_00004	0.125 mL	2,4-dinitrotoluene-d3	12.5 ug/mL
					8321HMX13C4IS_00008	0.125 mL	HMX-13C4	12.5 ug/mL
					8321RDX13C3IS_00004	0.125 mL	Hexahydro-1,3,5-trinitro-1,3,5 -triazine 13C3	12.5 ug/mL
					EXPDNBD4IS_00004	0.02 mL	1,3-Dinitrobenzene-d4	12.936 ug/mL
.83212,4DNTIS_00004	05/19/12		Cambridge Isotope, Lot SCBD-008		(Purchased Reagent)		2,4-dinitrotoluene-d3	1000 mg/L
.8321HMX13C4IS_00008	09/11/16		Cambridge Isotope, Lot SCGF-021		(Purchased Reagent)		HMX-13C4	1000 mg/L
.8321RDX13C3IS_00004	03/31/18		Cambridge Isotope, Lot SCIC-005		(Purchased Reagent)		Hexahydro-1,3,5-trinitro-1,3,5 -triazine 13C3	1000 mg/L
.EXPDNBD4IS_00004	12/28/11	12/28/10	Acetonitrile, Lot h38619	10 mL	832113DNBD4IS_00002	0.066 g	1,3-Dinitrobenzene-d4	6468 ug/mL
..832113DNBD4IS_00002	01/16/14		Cambridge Isotope, Lot P-6201		(Purchased Reagent)		1,3-Dinitrobenzene-d4	98 %
MS CAL DAILY_00454	11/02/11	11/01/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
.MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB3[illegible]12		(Purchased Reagent)		Antimony	[illegible]g/L

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent Reagent ID	Parent Reagent Volume Added	Analyte	Concentration
MS CAL DAILY_00455	11/03/11	11/02/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
.MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
MS CALSTD-1_00055	10/01/12		Inorganic Ventures, Lot E2-MEB394076		(Purchased Reagent)		Ag	20 mg/L
							As	20 mg/L
							Ba	20 mg/L
							Be	20 mg/L
							Cd	20 mg/L
							Co	20 mg/L
							Copper	20 mg/L
							Cr	20 mg/L
							Lead	20 mg/L
							Mn	20 mg/L
							Nickel	20 mg/L
							Se	20 mg/L
							Th	20 mg/L
							Tl	20 mg/L
							U	20 mg/L
							V	20 mg/L
							Zinc	20 mg/L
MS CALSTD-2_00054	10/01/12		Inorganic Ventures, Lot E2-MEB394077		(Purchased Reagent)		Antimony	20 mg/L
							Mo	20 mg/L
							Sn	20 mg/L
MS CCV_00449	11/02/11	11/01/11	1% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.25 mL	Copper	50 ug/L
							Lead	50 ug/L
							Nickel	50 ug/L
							Zinc	50 ug/L
					MS CALSTD-2_00049	0.25 mL	Antimony	50 ug/L
.MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
MS CCV_00450	11/03/11	11/02/11	1% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.25 mL	Copper	50 ug/L
							Lead	50 ug/L
							Nickel	50 ug/L
							Zinc	50 ug/L
					MS CALSTD-2_00049	0.25 mL	Antimony	50 ug/L
.MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
.MS CALSTD-2_00049	09/01/12	Inorganic Ventures, Lot E2-MEB378112			(Purchased Reagent)		Antimony	20 mg/L
MS ICSA_00447	11/02/11	11/01/11	1% HNO3, Lot K23022	50 mL	MS ICSA STOCK_00010	5 mL	Mo	2000 ug/L
.MS ICSA STOCK_00010	10/01/12	Inorganic Ventures, Lot E2-MEB371022			(Purchased Reagent)		Mo	20 mg/L
MS ICSA_00448	11/03/11	11/02/11	1% HNO3, Lot K23022	50 mL	MS ICSA STOCK_00010	5 mL	Mo	2000 ug/L
.MS ICSA STOCK_00010	10/01/12	Inorganic Ventures, Lot E2-MEB371022			(Purchased Reagent)		Mo	20 mg/L
MS ICSAB_00450	11/02/11	11/01/11	1% HNO3, Lot K23022	10 mL	MS CALSTD-1_00049	0.05 mL	Ag	100 ug/L
							As	100 ug/L
							Ba	100 ug/L
							Be	100 ug/L
							Cd	100 ug/L
							Co	100 ug/L
							Copper	100 ug/L
							Cr	100 ug/L
							Lead	100 ug/L
							Mn	100 ug/L
							Nickel	100 ug/L
							Se	100 ug/L
							Tl	100 ug/L
							U	100 ug/L
							V	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.05 mL	Antimony	100 ug/L
							Mo	2100 ug/L
							Sn	100 ug/L
					MS ICSA STOCK_00010	1 mL	Mo	2100 ug/L
.MS CALSTD-1_00049	09/01/12	Inorganic Ventures, Lot D2-MEB358015			(Purchased Reagent)		Ag	20 mg/L
							As	20 mg/L
							Ba	20 mg/L
							Be	20 mg/L
							Cd	20 mg/L
							Co	20 mg/L
							Copper	20 mg/L
							Cr	20 mg/L
							Lead	20 mg/L
							Mn	20 mg/L
							Nickel	20 mg/L
							Se	20 mg/L
							Tl	20 mg/L
							U	20 mg/L
							V	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12	Inorganic Ventures, Lot E2-MEB378112			(Purchased Reagent)		Antimony	20 mg/L
							Mo	20 mg/L
							Sn	20 mg/L
.MS ICSA STOCK_00010	10/01/12	Inorganic Ventures, Lot E2-MEB371022			(Purchased Reagent)		Mo	20 mg/L
MS ICSAB_00451	11/03/11	11/02/11	1% HNO3, Lot K23022	10 mL	MS CALSTD-1_00049	0.05 mL	Ag	100 ug/L
							As	100 ug/L
							Ba	100 ug/L
							Be	100 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent Reagent ID	Parent Reagent Volume Added	Analyte	Concentration
							Cd	100 ug/L
							Co	100 ug/L
							Copper	100 ug/L
							Cr	100 ug/L
							Lead	100 ug/L
							Mn	100 ug/L
							Nickel	100 ug/L
							Se	100 ug/L
							Tl	100 ug/L
							U	100 ug/L
							V	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.05 mL	Antimony	100 ug/L
							Mo	2100 ug/L
							Sn	100 ug/L
					MS ICSA STOCK_00010	1 mL	Mo	2100 ug/L
.MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Ag	20 mg/L
							As	20 mg/L
							Ba	20 mg/L
							Be	20 mg/L
							Cd	20 mg/L
							Co	20 mg/L
							Copper	20 mg/L
							Cr	20 mg/L
							Lead	20 mg/L
							Mn	20 mg/L
							Nickel	20 mg/L
							Se	20 mg/L
							Tl	20 mg/L
							U	20 mg/L
							V	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
							Mo	20 mg/L
							Sn	20 mg/L
.MS ICSA STOCK_00010	10/01/12		Inorganic Ventures, Lot E2-MEB371022		(Purchased Reagent)		Mo	20 mg/L
MS ICV_00448	11/02/11	11/01/11	1% HNO3, Lot K23022	50 mL	MS ICV-A HP_00004	0.1 mL	Copper	40 ug/L
							Lead	40 ug/L
							Nickel	40 ug/L
							Zinc	40 ug/L
					MS ICV-B HP_00003	0.1 mL	Antimony	40 ug/L
.MS ICV-A HP_00004	03/16/12		HIGH PURITY, Lot 1107415		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS ICV-B HP_00003	03/16/12		HIGH PURITY, Lot 1107417		(Purchased Reagent)		Antimony	20 mg/L
MS ICV_00449	11/03/11	11/02/11	1% HNO3, Lot K23022	50 mL	MS ICV-A HP_00004	0.1 mL	Copper	40 ug/L
							Lead	40 ug/L
							Nickel	40 ug/L
							Zinc	40 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
					MS ICV-B HP_00003	0.1 mL	Antimony	40 ug/L
.MS ICV-A HP_00004	03/16/12		HIGH PURITY, Lot 1107415		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS ICV-B HP_00003	03/16/12		HIGH PURITY, Lot 1107417		(Purchased Reagent)		Antimony	20 mg/L
MS LCCV dly_00448	11/02/11	11/01/11	5% HNO3, Lot K23022	100 mL	MS LLCCV1_00004	1 mL	Copper	2 ug/L
							Lead	1 ug/L
							Nickel	2 ug/L
							Zinc	10 ug/L
					MS LLCCV2 IV_00004	1 mL	Antimony	2 ug/L
.MS LLCCV1_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366138		(Purchased Reagent)		Copper	0.2 mg/L
							Lead	0.1 mg/L
							Nickel	0.2 mg/L
							Zinc	1 mg/L
.MS LLCCV2 IV_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366139		(Purchased Reagent)		Antimony	0.2 mg/L
MS LCCV dly_00449	11/03/11	11/02/11	5% HNO3, Lot K23022	100 mL	MS LLCCV1_00004	1 mL	Copper	2 ug/L
							Lead	1 ug/L
							Nickel	2 ug/L
							Zinc	10 ug/L
					MS LLCCV2 IV_00004	1 mL	Antimony	2 ug/L
.MS LLCCV1_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366138		(Purchased Reagent)		Copper	0.2 mg/L
							Lead	0.1 mg/L
							Nickel	0.2 mg/L
							Zinc	1 mg/L
.MS LLCCV2 IV_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366139		(Purchased Reagent)		Antimony	0.2 mg/L
MS PDS 1 IV_00004	12/28/11		Inorganic Ventures, Lot D2-MEB357105		(Purchased Reagent)		Antimony	20 mg/L
MS PDS 2 IV_00007	10/01/12		Inorganic Ventures, Lot E2-MEB391126		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
MS RL STD_00459	11/02/11	11/01/11	1% HNO3, Lot K23022	10 mL	MS CAL DAILY_00454	0.1 mL	Copper	1 ug/L
							Lead	1 ug/L
							Nickel	1 ug/L
							Zinc	10 ug/L
							Antimony	1 ug/L
					MS Sn/Zn Mix_00005	0.09 mL	Zinc	10 ug/L
.MS CAL DAILY_00454	11/02/11	11/01/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
..MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
..MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
.MS Sn/Zn Mix_00005	12/01/11	02/16/11	5% HNO3, Lot J11046	50 mL	1000 Zn_00003	0.05 mL	Zinc	1 mg/L
..1000 Zn_00003	12/01/11		Inorganic Ventures, Lot d2-zn02065		(Purchased Reagent)		Zinc	1000 mg/L

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
MS RL STD_00460	11/03/11	11/02/11	1% HNO3, Lot K23022	10 mL	MS CAL DAILY_00455	0.1 mL	Copper	1 ug/L
							Lead	1 ug/L
							Nickel	1 ug/L
							Zinc	10 ug/L
							Antimony	1 ug/L
					MS Sn/Zn Mix_00005	0.09 mL	Zinc	10 ug/L
.MS CAL DAILY_00455	11/03/11	11/02/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
..MS CALSTD-1_00049	09/01/12	Inorganic Ventures, Lot D2-MEB358015			(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
..MS CALSTD-2_00049	09/01/12	Inorganic Ventures, Lot E2-MEB378112			(Purchased Reagent)		Antimony	20 mg/L
.MS Sn/Zn Mix_00005	12/01/11	02/16/11	5% HNO3, Lot J11046	50 mL	1000 Zn_00003	0.05 mL	Zinc	1 mg/L
..1000 Zn_00003	12/01/11	Inorganic Ventures, Lot d2-zn02065			(Purchased Reagent)		Zinc	1000 mg/L

Certification Summary

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8321B
Explosives

Nitroaromatics and Nitramines (LC/MS/MS) by Method 8321B

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low

GC Column (1): IonPac   ID: 2 (mm)

Client Sample ID	Lab Sample ID	NBZ	#
MG26 SB104	280-21683-1	80	
MG19 IS016	280-21683-2	79	
MG19 IS017	280-21683-3	82	
MG19 IS018	280-21683-4	88	
MG20 SB090	280-21683-5	76	
MG20 SB091	280-21683-6	77	
MG22 SB094	280-21683-7	76	
MG22 SB095	280-21683-8	82	
MG22 SB096	280-21683-9	80	
MG27 SB107	280-21683-10	78	
MG27 SB106	280-21683-11	79	
MG25 SB102	280-21683-12	75	
MG23 SB099	280-21683-13	80	
MG25 SB103	280-21683-14	76	
MG23 SB098	280-21683-15	75	
MG21 SB093	280-21683-16	74	
MG24 SB100	280-21683-17	83	
MG21 SB092	280-21683-18	86	
MG35 SB123	280-21683-19	80	
MG26 SB105	280-21683-20	73	
MG24 SB101	280-21683-21	72	
MG35 SB124	280-21683-22	77	
MG35 SB125	280-21683-23	72	
MG36 SB126	280-21683-24	83	
MG36 SB127	280-21683-25	77	
MG32 SB115	280-21683-26	83	
MG32 SB116	280-21683-27	80	
MG33 SB117	280-21683-28	80	
MG33 SB119	280-21683-29	74	
MG33 SB118	280-21683-30	76	
MG34 SB121	280-21683-31	81	
MG34 SB122	280-21683-32	77	
MG31 SB113	280-21683-33	91	
MG31 SB114	280-21683-34	87	
MG30 SB111	280-21683-35	80	

	QC LIMITS
NBZ = Nitrobenzene-d5	68-140

Column to be used to flag recovery values

FORM II 8321B

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): IonPac ID: 2 (mm)

Client Sample ID	Lab Sample ID	NBZ	#
MG30 SB112	280-21683-36	82	
MG29 SB109	280-21683-37	81	
MG29 SB110	280-21683-38	78	
MG06 SB062	280-21683-39	77	
MG06 SB063	280-21683-40	75	
MG06 SB064	280-21683-41	72	
MG05 SB060	280-21683-42	77	
MG05 SB061	280-21683-43	77	
MG04 SB058	280-21683-44	74	
MG04 SB059	280-21683-45	72	
MG03 SB056	280-21683-46	85	
MG03 SB057	280-21683-47	83	
MG02 SB054	280-21683-48	90	
MG02 SB055	280-21683-49	72	
MG15 SB081	280-21683-50	81	
MG15 SB082	280-21683-51	78	
MG12 SB073	280-21683-52	78	
MG12 SB075	280-21683-53	78	
MG12 SB074	280-21683-54	78	
MG11 SB071	280-21683-55	84	
MG11 SB072	280-21683-56	91	
MG14 SB079	280-21683-57	82	
MG14 SB080	280-21683-58	85	
MG13 SB077	280-21683-59	88	
MG13 SB078	280-21683-60	73	
MG16 SB083	280-21683-61	86	
MG16 SB084	280-21683-62	87	
MG09 SB069	280-21683-63	78	
MG09 SB070	280-21683-64	77	
MG08 SB067	280-21683-65	96	
MG08 SB068	280-21683-66	84	
MG07 SB065	280-21683-67	80	
MG07 SB066	280-21683-68	85	
MG17 SB085	280-21683-69	77	
MG17 SB086	280-21683-70	83	

	QC LIMITS
NBZ = Nitrobenzene-d5	68-140

Column to be used to flag recovery values

FORM II 8321B

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): IonPac ID: 2 (mm)

Client Sample ID	Lab Sample ID	NBZ	#
MG17 SB087	280-21683-71	87	
MG18 SB088	280-21683-72	81	
MG18 SB089	280-21683-73	85	
CP01 IS01	280-21683-74	74	
CP01 IS02	280-21683-75	81	
CP01 IS03	280-21683-76	76	
CP10 SB014	280-21683-77	85	
CP10 SB015	280-21683-78	84	
CP09 SB012	280-21683-79	85	
CP09 SB013	280-21683-80	87	
CP08 SB009	280-21683-81	78	
CP08 SB010	280-21683-82	78	
CP08 SB011	280-21683-83	85	
CP11 SB16A	280-21683-84	80	
CP11 SB16B	280-21683-85	89	
CP07 SB007	280-21683-86	79	
CP07 SB008	280-21683-87	83	
CP04 SB001	280-21683-88	81	
CP04 SB002	280-21683-89	86	
CP06 SB005	280-21683-90	86	
CP06 SB006	280-21683-91	73	
CP05 SB003	280-21683-92	74	
CP05 SB004	280-21683-93	84	
CP12 SB017	280-21683-94	79	
CP12 SB018	280-21683-95	90	
	MB 280-92097/1-A	86	
	MB 280-92102/1-A	87	
	MB 280-92311/1-A	88	
	MB 280-92314/1-A	76	
	MB 280-92315/1-A	83	
	MB 280-93548/1-A	82	
	GB 280-92116/1-B	86	
	LCS 280-92097/2-A	96	
	LCS 280-92102/2-A	86	

	QC LIMITS
NBZ = Nitrobenzene-d5	68-140

Column to be used to flag recovery values

FORM II 8321B

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low

GC Column (1): IonPac   ID: 2 (mm)

Client Sample ID	Lab Sample ID	NBZ	#
	LCS 280-92311/2-A	81	
	LCS 280-92314/2-A	72	
	LCS 280-92315/2-A	93	
	LCS 280-93548/2-A	90	
	LCSSRM 280-92116/2-B	85	
MG27 SB106 MS	280-21683-11 MS	77	
MG21 SB092 MS	280-21683-18 MS	74	
MG03 SB057 MS	280-21683-47 MS	77	
MG12 SB074 MS	280-21683-54 MS	82	
CP09 SB013 MS	280-21683-80 MS	83	
MG27 SB106 MSD	280-21683-11 MSD	78	
MG21 SB092 MSD	280-21683-18 MSD	76	
MG03 SB057 MSD	280-21683-47 MSD	82	
MG12 SB074 MSD	280-21683-54 MSD	80	
CP09 SB013 MSD	280-21683-80 MSD	88	

	QC LIMITS
NBZ = Nitrobenzene-d5	68-140

Column to be used to flag recovery values

FORM II 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21588.d

Lab ID: LCS 280-92097/2-A   Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.386	0.313	81	45-142	
1,3-Dinitrobenzene	0.386	0.379	98	74-130	
2,4,6-Trinitrotoluene	0.386	0.286	74	60-135	
2,4-Dinitrotoluene	0.386	0.362	94	63-130	
2,6-Dinitrotoluene	0.386	0.340	88	65-133	
2-Amino-4,6-dinitrotoluene	0.386	0.435	112	51-148	
2-Nitrotoluene	0.386	0.353	91	59-150	
3-Nitrotoluene	0.386	0.325	84	56-154	
4-Amino-2,6-dinitrotoluene	0.386	0.388	100	60-141	
4-Nitrotoluene	0.386	0.326	84	72-145	
HMX	0.386	0.353	91	48-131	
Nitrobenzene	0.386	0.376	97	70-140	
Nitroglycerin	0.386	0.364	94	27-146	
PETN	0.386	0.421	109	31-171	
RDX	0.386	0.400	104	69-130	
Tetryl	0.386	0.307	79	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21615.d

Lab ID: LCS 280-92102/2-A   Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.394	0.313	79	45-142	
1,3-Dinitrobenzene	0.394	0.370	94	74-130	
2,4,6-Trinitrotoluene	0.394	0.289	73	60-135	
2,4-Dinitrotoluene	0.394	0.364	92	63-130	
2,6-Dinitrotoluene	0.394	0.358	91	65-133	
2-Amino-4,6-dinitrotoluene	0.394	0.452	114	51-148	
2-Nitrotoluene	0.394	0.375	95	59-150	
3-Nitrotoluene	0.394	0.368	93	56-154	
4-Amino-2,6-dinitrotoluene	0.394	0.376	95	60-141	
4-Nitrotoluene	0.394	0.360	91	72-145	
HMX	0.394	0.330	84	48-131	
Nitrobenzene	0.394	0.353	89	70-140	
Nitroglycerin	0.394	0.339	86	27-146	
PETN	0.394	0.426	108	31-171	
RDX	0.394	0.363	92	69-130	
Tetryl	0.394	0.327	83	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21561.d

Lab ID: LCS 280-92311/2-A   Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.396	0.305	77	45-142	
1,3-Dinitrobenzene	0.396	0.377	95	74-130	
2,4,6-Trinitrotoluene	0.396	0.288	73	60-135	
2,4-Dinitrotoluene	0.396	0.377	95	63-130	
2,6-Dinitrotoluene	0.396	0.338	85	65-133	
2-Amino-4,6-dinitrotoluene	0.396	0.411	104	51-148	
2-Nitrotoluene	0.396	0.400	101	59-150	
3-Nitrotoluene	0.396	0.368	93	56-154	
4-Amino-2,6-dinitrotoluene	0.396	0.411	104	60-141	
4-Nitrotoluene	0.396	0.383	97	72-145	
HMX	0.396	0.335	85	48-131	
Nitrobenzene	0.396	0.379	96	70-140	
Nitroglycerin	0.396	0.361	91	27-146	
PETN	0.396	0.473	120	31-171	
RDX	0.396	0.381	96	69-130	
Tetryl	0.396	0.320	81	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21155.d

Lab ID: LCS 280-92314/2-A   Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.398	0.310	78	45-142	
1,3-Dinitrobenzene	0.398	0.371	93	74-130	
2,4,6-Trinitrotoluene	0.398	0.302	76	60-135	
2,4-Dinitrotoluene	0.398	0.347	87	63-130	
2,6-Dinitrotoluene	0.398	0.321	81	65-133	
2-Amino-4,6-dinitrotoluene	0.398	0.425	107	51-148	
2-Nitrotoluene	0.398	0.336	84	59-150	
3-Nitrotoluene	0.398	0.357	90	56-154	
4-Amino-2,6-dinitrotoluene	0.398	0.380	96	60-141	
4-Nitrotoluene	0.398	0.340	85	72-145	
HMX	0.398	0.312	78	48-131	
Nitrobenzene	0.398	0.339	85	70-140	
Nitroglycerin	0.398	0.345	87	27-146	
PETN	0.398	0.414	104	31-171	
RDX	0.398	0.352	88	69-130	
Tetryl	0.398	0.287	72	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41J21182.d

Lab ID: LCS 280-92315/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.393	0.336	85	45-142	
1,3-Dinitrobenzene	0.393	0.414	105	74-130	
2,4,6-Trinitrotoluene	0.393	0.383	97	60-135	
2,4-Dinitrotoluene	0.393	0.395	100	63-130	
2,6-Dinitrotoluene	0.393	0.387	98	65-133	
2-Amino-4,6-dinitrotoluene	0.393	0.507	129	51-148	
2-Nitrotoluene	0.393	0.381	97	59-150	
3-Nitrotoluene	0.393	0.379	96	56-154	
4-Amino-2,6-dinitrotoluene	0.393	0.434	110	60-141	
4-Nitrotoluene	0.393	0.370	94	72-145	
HMX	0.393	0.354	90	48-131	
Nitrobenzene	0.393	0.402	102	70-140	
Nitroglycerin	0.393	0.384	98	27-146	
PETN	0.393	0.474	121	31-171	
RDX	0.393	0.404	103	69-130	
Tetryl	0.393	0.374	95	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41J21642.d

Lab ID: LCS 280-93548/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.397	0.305	77	45-142	
1,3-Dinitrobenzene	0.397	0.425	107	74-130	
2,4,6-Trinitrotoluene	0.397	0.244	61	60-135	
2,4-Dinitrotoluene	0.397	0.416	105	63-130	
2,6-Dinitrotoluene	0.397	0.369	93	65-133	
2-Amino-4,6-dinitrotoluene	0.397	0.485	122	51-148	
2-Nitrotoluene	0.397	0.396	100	59-150	
3-Nitrotoluene	0.397	0.392	99	56-154	
4-Amino-2,6-dinitrotoluene	0.397	0.420	106	60-141	
4-Nitrotoluene	0.397	0.385	97	72-145	
HMX	0.397	0.369	93	48-131	
Nitrobenzene	0.397	0.378	95	70-140	
Nitroglycerin	0.397	0.413	104	27-146	
PETN	0.397	0.486	122	31-171	
RDX	0.397	0.417	105	69-130	
Tetryl	0.397	0.222	56	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LCS-CERTIFIED REFERENCE MATERIAL RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21644.d

Lab ID: LCSSRM 280-92116/2-B   Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCSSRM CONCENTRATION (mg/Kg)	LCSSR % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.600	0.578	96	58-116	
1,3-Dinitrobenzene	0.602	0.610	101	69-116	
2,4,6-Trinitrotoluene	0.600	0.610	102	69-120	
2,4-Dinitrotoluene	0.600	0.581	97	69-137	
2,6-Dinitrotoluene	0.602	0.536	89	60-121	
2-Amino-4,6-dinitrotoluene	0.600	0.547	91	56-108	
2-Nitrotoluene	0.604	0.563	93	67-117	
3-Nitrotoluene	0.599	0.512	85	69-124	
4-Amino-2,6-dinitrotoluene	0.600	0.518	86	46-98	
4-Nitrotoluene	0.603	0.530	88	51-143	
HMX	0.600	0.568	95	59-131	
Nitrobenzene	0.602	0.496	82	58-119	
Nitroglycerin	0.600	0.549	91	60-115	
PETN	0.600	0.634	106	60-115	
RDX	0.600	0.517	86	62-123	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21202.d

Lab ID: 280-21683-11 MS   Client ID: MG27 SB106 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.388	0.024 U	0.282	73	45-142	
1,3-Dinitrobenzene	0.388	0.012 U	0.357	92	74-130	
2,4,6-Trinitrotoluene	0.388	0.012 U	0.298	77	60-135	
2,4-Dinitrotoluene	0.388	0.012 U	0.359	92	63-130	
2,6-Dinitrotoluene	0.388	0.024 U	0.327	84	65-133	
2-Amino-4,6-dinitrotoluene	0.388	0.024 U	0.386	99	51-148	
2-Nitrotoluene	0.388	0.012 U	0.370	95	59-150	
3-Nitrotoluene	0.388	0.024 U	0.379	98	56-154	
4-Amino-2,6-dinitrotoluene	0.388	0.012 U	0.329	85	60-141	
4-Nitrotoluene	0.388	0.024 U	0.346	89	72-145	
HMX	0.388	0.012 U	0.296	76	48-131	
Nitrobenzene	0.388	0.012 U	0.337	87	70-140	
Nitroglycerin	0.388	0.012 U	0.323	83	27-146	
PETN	0.388	0.012 U	0.415	107	31-171	
RDX	0.388	0.012 U	0.342	88	69-130	
Tetryl	0.388	0.012 U	0.293	76	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21162.d

Lab ID: 280-21683-18 MS   Client ID: MG21 SB092 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.394	0.025 U	0.305	77	45-142	
1,3-Dinitrobenzene	0.394	0.012 U	0.350	89	74-130	
2,4,6-Trinitrotoluene	0.394	0.012 U	0.315	80	60-135	
2,4-Dinitrotoluene	0.394	0.012 U	0.360	91	63-130	
2,6-Dinitrotoluene	0.394	0.025 U	0.336	85	65-133	
2-Amino-4,6-dinitrotoluene	0.394	0.025 U	0.469	119	51-148	
2-Nitrotoluene	0.394	0.012 U	0.363	92	59-150	
3-Nitrotoluene	0.394	0.025 U	0.348	88	56-154	
4-Amino-2,6-dinitrotoluene	0.394	0.012 U	0.359	91	60-141	
4-Nitrotoluene	0.394	0.025 U	0.343	87	72-145	
HMX	0.394	0.012 U	0.327	83	48-131	
Nitrobenzene	0.394	0.012 U	0.324	82	70-140	
Nitroglycerin	0.394	0.012 U	0.318	81	27-146	
PETN	0.394	0.012 U	0.419	106	31-171	
RDX	0.394	0.012 U	0.352	89	69-130	
Tetryl	0.394	0.012 U	0.286	73	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41J21579.d

Lab ID: 280-21683-47 MS Client ID: MG03 SB057 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.397	0.025 U	0.301	76	45-142	
1,3-Dinitrobenzene	0.397	0.012 U	0.375	95	74-130	
2,4,6-Trinitrotoluene	0.397	0.012 U	0.265	67	60-135	
2,4-Dinitrotoluene	0.397	0.012 U	0.345	87	63-130	
2,6-Dinitrotoluene	0.397	0.025 U	0.350	88	65-133	
2-Amino-4,6-dinitrotoluene	0.397	0.025 U	0.411	103	51-148	
2-Nitrotoluene	0.397	0.012 U	0.346	87	59-150	
3-Nitrotoluene	0.397	0.025 U	0.351	88	56-154	
4-Amino-2,6-dinitrotoluene	0.397	0.012 U	0.388	98	60-141	
4-Nitrotoluene	0.397	0.025 U	0.325	82	72-145	
HMX	0.397	0.012 U	0.330	83	48-131	
Nitrobenzene	0.397	0.012 U	0.344	87	70-140	
Nitroglycerin	0.397	0.012 U	0.357	90	27-146	
PETN	0.397	0.012 U	0.411	103	31-171	
RDX	0.397	0.012 U	0.356	90	69-130	
Tetryl	0.397	0.012 U	0.274	69	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21591.d

Lab ID: 280-21683-54 MS   Client ID: MG12 SB074 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.395	0.025 U	0.293	74	45-142	
1,3-Dinitrobenzene	0.395	0.012 U	0.426	108	74-130	
2,4,6-Trinitrotoluene	0.395	0.012 U	0.245	62	60-135	
2,4-Dinitrotoluene	0.395	0.012 U	0.397	101	63-130	
2,6-Dinitrotoluene	0.395	0.025 U	0.348	88	65-133	
2-Amino-4,6-dinitrotoluene	0.395	0.025 U	0.413	105	51-148	
2-Nitrotoluene	0.395	0.012 U	0.369	93	59-150	
3-Nitrotoluene	0.395	0.025 U	0.346	88	56-154	
4-Amino-2,6-dinitrotoluene	0.395	0.012 U	0.376	95	60-141	
4-Nitrotoluene	0.395	0.025 U	0.342	87	72-145	
HMX	0.395	0.012 U	0.338	86	48-131	
Nitrobenzene	0.395	0.012 U	0.349	89	70-140	
Nitroglycerin	0.395	0.012 U	0.378	96	27-146	
PETN	0.395	0.012 U	0.410	104	31-171	
RDX	0.395	0.012 U	0.370	94	69-130	
Tetryl	0.395	0.012 U	0.259	66	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21621.d

Lab ID: 280-21683-80 MS   Client ID: CP09 SB013 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.394	0.023 U	0.321	81	45-142	
1,3-Dinitrobenzene	0.394	0.012 U	0.372	94	74-130	
2,4,6-Trinitrotoluene	0.394	0.012 U	0.294	75	60-135	
2,4-Dinitrotoluene	0.394	0.012 U	0.369	94	63-130	
2,6-Dinitrotoluene	0.394	0.023 U	0.363	92	65-133	
2-Amino-4,6-dinitrotoluene	0.394	0.023 U	0.422	107	51-148	
2-Nitrotoluene	0.394	0.012 U	0.379	96	59-150	
3-Nitrotoluene	0.394	0.023 U	0.391	99	56-154	
4-Amino-2,6-dinitrotoluene	0.394	0.012 U	0.360	91	60-141	
4-Nitrotoluene	0.394	0.023 U	0.362	92	72-145	
HMX	0.394	0.012 U	0.312	79	48-131	
Nitrobenzene	0.394	0.012 U	0.354	90	70-140	
Nitroglycerin	0.394	0.012 U	0.351	89	27-146	
PETN	0.394	0.012 U	0.443	112	31-171	
RDX	0.394	0.012 U	0.385	98	69-130	
Tetryl	0.394	0.012 U	0.320	81	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21203.d

Lab ID: 280-21683-11 MSD   Client ID: MG27 SB106 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.392	0.301	77	7	70	45-142	
1,3-Dinitrobenzene	0.392	0.364	93	2	25	74-130	
2,4,6-Trinitrotoluene	0.392	0.320	82	7	25	60-135	
2,4-Dinitrotoluene	0.392	0.370	94	3	25	63-130	
2,6-Dinitrotoluene	0.392	0.334	85	2	25	65-133	
2-Amino-4,6-dinitrotoluene	0.392	0.452	116	16	25	51-148	
2-Nitrotoluene	0.392	0.363	93	2	45	59-150	
3-Nitrotoluene	0.392	0.370	94	2	25	56-154	
4-Amino-2,6-dinitrotoluene	0.392	0.369	94	12	48	60-141	
4-Nitrotoluene	0.392	0.347	89	0	25	72-145	
HMX	0.392	0.298	76	1	25	48-131	
Nitrobenzene	0.392	0.337	86	0	25	70-140	
Nitroglycerin	0.392	0.363	93	12	92	27-146	
PETN	0.392	0.421	108	1	40	31-171	
RDX	0.392	0.345	88	1	25	69-130	
Tetryl	0.392	0.314	80	7	50	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21163.d

Lab ID: 280-21683-18 MSD   Client ID: MG21 SB092 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.388	0.278	72	9	70	45-142	
1,3-Dinitrobenzene	0.388	0.353	91	1	25	74-130	
2,4,6-Trinitrotoluene	0.388	0.297	77	6	25	60-135	
2,4-Dinitrotoluene	0.388	0.359	92	0	25	63-130	
2,6-Dinitrotoluene	0.388	0.348	90	4	25	65-133	
2-Amino-4,6-dinitrotoluene	0.388	0.454	117	3	25	51-148	
2-Nitrotoluene	0.388	0.380	98	5	45	59-150	
3-Nitrotoluene	0.388	0.353	91	1	25	56-154	
4-Amino-2,6-dinitrotoluene	0.388	0.378	97	5	48	60-141	
4-Nitrotoluene	0.388	0.342	88	0	25	72-145	
HMX	0.388	0.311	80	5	25	48-131	
Nitrobenzene	0.388	0.335	86	4	25	70-140	
Nitroglycerin	0.388	0.337	87	6	92	27-146	
PETN	0.388	0.445	115	6	40	31-171	
RDX	0.388	0.333	86	6	25	69-130	
Tetryl	0.388	0.292	75	2	50	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21580.d

Lab ID: 280-21683-47 MSD   Client ID: MG03 SB057 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.395	0.329	83	9	70	45-142	
1,3-Dinitrobenzene	0.395	0.370	94	1	25	74-130	
2,4,6-Trinitrotoluene	0.395	0.291	74	9	25	60-135	
2,4-Dinitrotoluene	0.395	0.347	88	1	25	63-130	
2,6-Dinitrotoluene	0.395	0.329	83	6	25	65-133	
2-Amino-4,6-dinitrotoluene	0.395	0.415	105	1	25	51-148	
2-Nitrotoluene	0.395	0.361	91	4	45	59-150	
3-Nitrotoluene	0.395	0.375	95	7	25	56-154	
4-Amino-2,6-dinitrotoluene	0.395	0.361	91	7	48	60-141	
4-Nitrotoluene	0.395	0.338	86	4	25	72-145	
HMX	0.395	0.327	83	1	25	48-131	
Nitrobenzene	0.395	0.352	89	2	25	70-140	
Nitroglycerin	0.395	0.327	83	9	92	27-146	
PETN	0.395	0.428	108	4	40	31-171	
RDX	0.395	0.374	95	5	25	69-130	
Tetryl	0.395	0.292	74	6	50	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21592.d

Lab ID: 280-21683-54 MSD   Client ID: MG12 SB074 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.394	0.307	78	5	70	45-142	
1,3-Dinitrobenzene	0.394	0.349	89	20	25	74-130	
2,4,6-Trinitrotoluene	0.394	0.250	63	2	25	60-135	
2,4-Dinitrotoluene	0.394	0.390	99	2	25	63-130	
2,6-Dinitrotoluene	0.394	0.368	93	6	25	65-133	
2-Amino-4,6-dinitrotoluene	0.394	0.448	114	8	25	51-148	
2-Nitrotoluene	0.394	0.375	95	2	45	59-150	
3-Nitrotoluene	0.394	0.364	92	5	25	56-154	
4-Amino-2,6-dinitrotoluene	0.394	0.415	105	10	48	60-141	
4-Nitrotoluene	0.394	0.348	88	2	25	72-145	
HMX	0.394	0.334	85	1	25	48-131	
Nitrobenzene	0.394	0.353	90	1	25	70-140	
Nitroglycerin	0.394	0.332	84	13	92	27-146	
PETN	0.394	0.434	110	6	40	31-171	
RDX	0.394	0.371	94	0	25	69-130	
Tetryl	0.394	0.257	65	1	50	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41J21622.d

Lab ID: 280-21683-80 MSD Client ID: CP09 SB013 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.397	0.342	86	6	70	45-142	
1,3-Dinitrobenzene	0.397	0.384	97	3	25	74-130	
2,4,6-Trinitrotoluene	0.397	0.299	75	2	25	60-135	
2,4-Dinitrotoluene	0.397	0.379	95	2	25	63-130	
2,6-Dinitrotoluene	0.397	0.346	87	5	25	65-133	
2-Amino-4,6-dinitrotoluene	0.397	0.451	114	7	25	51-148	
2-Nitrotoluene	0.397	0.384	97	1	45	59-150	
3-Nitrotoluene	0.397	0.409	103	5	25	56-154	
4-Amino-2,6-dinitrotoluene	0.397	0.383	96	6	48	60-141	
4-Nitrotoluene	0.397	0.394	99	8	25	72-145	
HMX	0.397	0.336	85	8	25	48-131	
Nitrobenzene	0.397	0.385	97	8	25	70-140	
Nitroglycerin	0.397	0.355	89	1	92	27-146	
PETN	0.397	0.434	109	2	40	31-171	
RDX	0.397	0.363	91	6	25	69-130	
Tetryl	0.397	0.308	78	4	50	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG No.:

Lab File ID: ex41J21587.d

Lab Sample ID: MB 280-92097/1-A

Matrix: Solid

Date Extracted: 10/19/2011 19:21

Instrument ID: LC_LCMS4

Date Analyzed: 11/01/2011 17:25

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-92097/2-A	ex41J21588.d	11/01/2011 17:39
MG12 SB075	280-21683-53	ex41J21589.d	11/01/2011 17:53
MG12 SB074	280-21683-54	ex41J21590.d	11/01/2011 18:06
MG12 SB074 MS	280-21683-54 MS	ex41J21591.d	11/01/2011 18:20
MG12 SB074 MSD	280-21683-54 MSD	ex41J21592.d	11/01/2011 18:33
MG11 SB071	280-21683-55	ex41J21593.d	11/01/2011 18:47
MG11 SB072	280-21683-56	ex41J21594.d	11/01/2011 19:00
MG14 SB079	280-21683-57	ex41J21596.d	11/01/2011 19:28
MG14 SB080	280-21683-58	ex41J21597.d	11/01/2011 19:42
MG13 SB077	280-21683-59	ex41J21598.d	11/01/2011 19:55
MG13 SB078	280-21683-60	ex41J21599.d	11/01/2011 20:09
MG16 SB083	280-21683-61	ex41J21600.d	11/01/2011 20:22
MG16 SB084	280-21683-62	ex41J21601.d	11/01/2011 20:36
MG09 SB069	280-21683-63	ex41J21602.d	11/01/2011 20:49
MG09 SB070	280-21683-64	ex41J21603.d	11/01/2011 21:03
MG08 SB067	280-21683-65	ex41J21605.d	11/01/2011 21:30
MG08 SB068	280-21683-66	ex41J21606.d	11/01/2011 21:44
MG07 SB065	280-21683-67	ex41J21607.d	11/01/2011 21:58
MG07 SB066	280-21683-68	ex41J21608.d	11/01/2011 22:11
MG17 SB085	280-21683-69	ex41J21609.d	11/01/2011 22:25
MG17 SB086	280-21683-70	ex41J21610.d	11/01/2011 22:38
MG17 SB087	280-21683-71	ex41J21611.d	11/01/2011 22:52

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab File ID: ex41J21587.d   Lab Sample ID: MB 280-92097/1-A

Matrix: Solid   Date Extracted: 10/19/2011 19:21

Instrument ID: LC_LCMS4   Date Analyzed: 11/01/2011 17:25

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MG18 SB088	280-21683-72	ex41J21612.d	11/01/2011 23:06

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab File ID: ex41J21614.d   Lab Sample ID: MB 280-92102/1-A

Matrix: Solid   Date Extracted: 10/19/2011 20:50

Instrument ID: LC_LCMS4   Date Analyzed: 11/01/2011 23:33

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-92102/2-A	ex41J21615.d	11/01/2011 23:47
MG18 SB089	280-21683-73	ex41J21616.d	11/02/2011 00:01
CP10 SB014	280-21683-77	ex41J21617.d	11/02/2011 00:14
CP10 SB015	280-21683-78	ex41J21618.d	11/02/2011 00:28
CP09 SB012	280-21683-79	ex41J21619.d	11/02/2011 00:41
CP09 SB013	280-21683-80	ex41J21620.d	11/02/2011 00:55
CP09 SB013 MS	280-21683-80 MS	ex41J21621.d	11/02/2011 01:09
CP09 SB013 MSD	280-21683-80 MSD	ex41J21622.d	11/02/2011 01:22
CP08 SB009	280-21683-81	ex41J21624.d	11/02/2011 01:50
CP08 SB010	280-21683-82	ex41J21625.d	11/02/2011 02:03
CP08 SB011	280-21683-83	ex41J21626.d	11/02/2011 02:17
CP11 SB16A	280-21683-84	ex41J21627.d	11/02/2011 02:30
CP11 SB16B	280-21683-85	ex41J21628.d	11/02/2011 02:44
CP07 SB007	280-21683-86	ex41J21629.d	11/02/2011 02:58
CP07 SB008	280-21683-87	ex41J21630.d	11/02/2011 03:11
CP04 SB001	280-21683-88	ex41J21631.d	11/02/2011 03:25
CP04 SB002	280-21683-89	ex41J21633.d	11/02/2011 03:52
CP06 SB005	280-21683-90	ex41J21634.d	11/02/2011 04:06
CP06 SB006	280-21683-91	ex41J21635.d	11/02/2011 04:20
CP05 SB003	280-21683-92	ex41J21636.d	11/02/2011 04:33
CP05 SB004	280-21683-93	ex41J21637.d	11/02/2011 04:47
CP12 SB017	280-21683-94	ex41J21638.d	11/02/2011 05:00

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab File ID: ex41J21614.d   Lab Sample ID: MB 280-92102/1-A

Matrix: Solid   Date Extracted: 10/19/2011 20:50

Instrument ID: LC_LCMS4   Date Analyzed: 11/01/2011 23:33

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
CP12 SB018	280-21683-95	ex41J21639.d	11/02/2011 05:14

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab File ID: ex41J21181.d   Lab Sample ID: MB 280-92315/1-A

Matrix: Solid   Date Extracted: 10/20/2011 19:15

Instrument ID: LC_LCMS4   Date Analyzed: 10/25/2011 19:55

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-92315/2-A	ex41J21182.d	10/25/2011 20:09
MG26 SB104	280-21683-1	ex41J21183.d	10/25/2011 20:23
MG20 SB090	280-21683-5	ex41J21184.d	10/25/2011 20:36
MG20 SB091	280-21683-6	ex41J21185.d	10/25/2011 20:50
MG22 SB094	280-21683-7	ex41J21186.d	10/25/2011 21:04
MG22 SB095	280-21683-8	ex41J21187.d	10/25/2011 21:17
MG22 SB096	280-21683-9	ex41J21198.d	10/26/2011 07:12
MG27 SB107	280-21683-10	ex41J21199.d	10/26/2011 07:26
MG27 SB106	280-21683-11	ex41J21200.d	10/26/2011 07:39
MG27 SB106 MS	280-21683-11 MS	ex41J21202.d	10/26/2011 08:37
MG27 SB106 MSD	280-21683-11 MSD	ex41J21203.d	10/26/2011 08:51
MG25 SB102	280-21683-12	ex41J21204.d	10/26/2011 09:05

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Lab File ID: ex41J21154.d Lab Sample ID: MB 280-92314/1-A

Matrix: Solid Date Extracted: 10/20/2011 19:17

Instrument ID: LC_LCMS4 Date Analyzed: 10/25/2011 13:47

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-92314/2-A	ex41J21155.d	10/25/2011 14:00
MG23 SB099	280-21683-13	ex41J21156.d	10/25/2011 14:14
MG25 SB103	280-21683-14	ex41J21157.d	10/25/2011 14:28
MG23 SB098	280-21683-15	ex41J21158.d	10/25/2011 14:41
MG21 SB093	280-21683-16	ex41J21159.d	10/25/2011 14:55
MG24 SB100	280-21683-17	ex41J21160.d	10/25/2011 15:09
MG21 SB092	280-21683-18	ex41J21161.d	10/25/2011 15:22
MG21 SB092 MS	280-21683-18 MS	ex41J21162.d	10/25/2011 15:36
MG21 SB092 MSD	280-21683-18 MSD	ex41J21163.d	10/25/2011 15:50
MG35 SB123	280-21683-19	ex41J21165.d	10/25/2011 16:17
MG26 SB105	280-21683-20	ex41J21166.d	10/25/2011 16:31
MG24 SB101	280-21683-21	ex41J21167.d	10/25/2011 16:44
MG35 SB124	280-21683-22	ex41J21168.d	10/25/2011 16:58
MG35 SB125	280-21683-23	ex41J21169.d	10/25/2011 17:12
MG36 SB126	280-21683-24	ex41J21170.d	10/25/2011 17:25
MG36 SB127	280-21683-25	ex41J21171.d	10/25/2011 17:39
MG32 SB115	280-21683-26	ex41J21173.d	10/25/2011 18:06
MG32 SB116	280-21683-27	ex41J21174.d	10/25/2011 18:20
MG33 SB117	280-21683-28	ex41J21175.d	10/25/2011 18:33
MG33 SB119	280-21683-29	ex41J21176.d	10/25/2011 18:47
MG33 SB118	280-21683-30	ex41J21177.d	10/25/2011 19:01
MG34 SB121	280-21683-31	ex41J21178.d	10/25/2011 19:14

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab File ID: ex41J21154.d   Lab Sample ID: MB 280-92314/1-A

Matrix: Solid   Date Extracted: 10/20/2011 19:17

Instrument ID: LC_LCMS4   Date Analyzed: 10/25/2011 13:47

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MG34 SB122	280-21683-32	ex41J21179.d	10/25/2011 19:28

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab File ID: ex41J21560.d   Lab Sample ID: MB 280-92311/1-A

Matrix: Solid   Date Extracted: 10/20/2011 19:23

Instrument ID: LC_LCMS4   Date Analyzed: 11/01/2011 11:14

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-92311/2-A	ex41J21561.d	11/01/2011 11:28
MG31 SB113	280-21683-33	ex41J21562.d	11/01/2011 11:42
MG31 SB114	280-21683-34	ex41J21563.d	11/01/2011 11:55
MG30 SB111	280-21683-35	ex41J21564.d	11/01/2011 12:09
MG30 SB112	280-21683-36	ex41J21565.d	11/01/2011 12:22
MG29 SB109	280-21683-37	ex41J21566.d	11/01/2011 12:38
MG29 SB110	280-21683-38	ex41J21567.d	11/01/2011 12:51
MG06 SB062	280-21683-39	ex41J21569.d	11/01/2011 13:19
MG06 SB063	280-21683-40	ex41J21570.d	11/01/2011 13:33
MG06 SB064	280-21683-41	ex41J21571.d	11/01/2011 13:46
MG05 SB060	280-21683-42	ex41J21572.d	11/01/2011 14:00
MG05 SB061	280-21683-43	ex41J21573.d	11/01/2011 14:14
MG04 SB058	280-21683-44	ex41J21574.d	11/01/2011 14:27
MG04 SB059	280-21683-45	ex41J21575.d	11/01/2011 14:41
MG03 SB056	280-21683-46	ex41J21576.d	11/01/2011 14:54
MG03 SB057	280-21683-47	ex41J21578.d	11/01/2011 15:22
MG03 SB057 MS	280-21683-47 MS	ex41J21579.d	11/01/2011 15:36
MG03 SB057 MSD	280-21683-47 MSD	ex41J21580.d	11/01/2011 15:50
MG02 SB054	280-21683-48	ex41J21581.d	11/01/2011 16:03
MG02 SB055	280-21683-49	ex41J21582.d	11/01/2011 16:17
MG15 SB081	280-21683-50	ex41J21583.d	11/01/2011 16:30
MG15 SB082	280-21683-51	ex41J21584.d	11/01/2011 16:44

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab File ID: ex41J21560.d   Lab Sample ID: MB 280-92311/1-A

Matrix: Solid   Date Extracted: 10/20/2011 19:23

Instrument ID: LC_LCMS4   Date Analyzed: 11/01/2011 11:14

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MG12 SB073	280-21683-52	ex41J21585.d	11/01/2011 16:58

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG No.:

Lab File ID: ex41J21641.d

Lab Sample ID: MB 280-93548/1-A

Matrix: Solid

Date Extracted: 10/27/2011 22:10

Instrument ID: LC_LCMS4

Date Analyzed: 11/02/2011 05:42

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-93548/2-A	ex41J21642.d	11/02/2011 05:55
	GB 280-92116/1-B	ex41J21643.d	11/02/2011 06:09
	LCSSRM 280-92116/2-B	ex41J21644.d	11/02/2011 06:23
MG19 IS016	280-21683-2	ex41J21645.d	11/02/2011 06:36
MG19 IS017	280-21683-3	ex41J21646.d	11/02/2011 06:50
MG19 IS018	280-21683-4	ex41J21647.d	11/02/2011 07:03
CP01 IS01	280-21683-74	ex41J21648.d	11/02/2011 07:17
CP01 IS02	280-21683-75	ex41J21649.d	11/02/2011 07:30
CP01 IS03	280-21683-76	ex41J21650.d	11/02/2011 07:44

FORM IV 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4 Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2(mm) Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		HXC4		HHTT		DNB4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		562630	2.06	2127170	3.03	1552444	4.99
UPPER LIMIT		1125260	2.56	4254340	3.53	3104888	5.49
LOWER LIMIT		281315	1.56	1063585	2.53	776222	4.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 280-92354/8		590369	2.06	2376310	3.03	1449500	4.99
ICV 280-92354/10		589783	2.06	2122759	3.03	1604847	4.99
CCV 280-92961/148		863394	2.06	2757429	3.03	1767610	4.95
MB 280-92314/1-A		1003518	2.06	3323475	3.03	1858754	4.95
LCS 280-92314/2-A		781021	2.06	2986920	3.03	1825252	4.95
280-21683-13	MG23 SB099	842496	2.06	2824662	3.03	1586780	4.95
280-21683-14	MG25 SB103	902216	2.06	3422271	3.03	1916286	4.95
280-21683-15	MG23 SB098	729627	2.06	2439721	3.03	1621826	4.95
280-21683-16	MG21 SB093	904858	2.06	3022433	3.03	1954151	4.99
280-21683-17	MG24 SB100	782586	2.06	3058561	3.03	1773482	4.95
280-21683-18	MG21 SB092	854142	2.06	2913591	3.03	1633427	4.99
280-21683-18 MS	MG21 SB092 MS	785695	2.06	2822576	3.03	1733488	4.95
280-21683-18 MSD	MG21 SB092 MSD	845969	2.06	3224393	3.03	1914369	4.95
CCV 280-92961/159		709764	2.06	3099339	3.03	1743039	4.95
280-21683-19	MG35 SB123	944492	2.06	2949647	3.03	1875699	4.95
280-21683-20	MG26 SB105	781813	2.06	3035156	3.03	1799891	4.95
280-21683-21	MG24 SB101	911385	2.06	3063423	3.03	1857598	4.95
280-21683-22	MG35 SB124	918765	2.06	3340350	3.03	1765946	4.95
280-21683-23	MG35 SB125	939106	2.06	3454177	3.03	1897459	4.95
280-21683-24	MG36 SB126	822865	2.06	3232924	3.03	1605935	4.95
280-21683-25	MG36 SB127	799644	2.06	3129428	3.03	1627176	4.95
CCV 280-92961/167		746516	2.06	2747006	3.03	1558927	4.95
280-21683-26	MG32 SB115	912401	2.06	2993965	3.03	1628845	4.95
280-21683-27	MG32 SB116	882593	2.06	3219926	3.03	1797761	4.95
280-21683-28	MG33 SB117	846405	2.06	3354483	3.03	1670131	4.95
280-21683-29	MG33 SB119	887687	2.06	2809161	3.03	1792020	4.95
280-21683-30	MG33 SB118	785502	2.06	2480622	3.03	1646208	4.95
280-21683-31	MG34 SB121	762152	2.06	2594857	3.03	1824321	4.95
280-21683-32	MG34 SB122	865463	2.06	2774044	3.03	1624718	4.95
CCV 280-92961/175		805528	2.06	3080464	3.03	1637973	4.95

HXC4 = HMX-13C4
HHTT = Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3
DNB4 = 1,3-Dinitrobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		HXC4		HHTT		DNB4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		562630	2.06	2127170	3.03	1552444	4.99
UPPER LIMIT		1125260	2.56	4254340	3.53	3104888	5.49
LOWER LIMIT		281315	1.56	1063585	2.53	776222	4.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 280-92964/175		805528	2.06	3080464	3.03	1637973	4.95
MB 280-92315/1-A		1012303	2.06	3227721	3.03	1717593	4.95
LCS 280-92315/2-A		813114	2.06	3033846	3.03	1622080	4.95
280-21683-1	MG26 SB104	762794	2.06	3022603	3.03	1815685	4.95
280-21683-5	MG20 SB090	791181	2.06	2725826	3.03	1701051	4.95
280-21683-6	MG20 SB091	931888	2.06	3129841	3.03	1851049	4.95
280-21683-7	MG22 SB094	889818	2.06	3232212	3.03	1827636	4.95
280-21683-8	MG22 SB095	833406	2.06	2981432	3.03	1747254	4.95
CCV 280-92964/183		871505	2.06	3234030	3.03	1726384	4.95
CCV 280-92964/191		776909	2.06	3008730	3.03	1566071	4.95
280-21683-9	MG22 SB096	981419	2.06	3092127	3.03	1732639	4.95
280-21683-10	MG27 SB107	921511	2.06	2995469	3.03	1778629	4.95
280-21683-11	MG27 SB106	897772	2.06	2700945	3.03	1680753	4.95
280-21683-11 MS	MG27 SB106 MS	814661	2.06	2831902	3.03	1697630	4.99
280-21683-11 MSD	MG27 SB106 MSD	815887	2.06	2737029	3.03	1850676	4.99
280-21683-12	MG25 SB102	1032157	2.06	3222810	3.03	1877348	4.99
CCV 280-92964/198		747402	2.06	3207073	3.03	1830757	4.99
CCV 280-94192/83		641897	2.06	2002719	3.03	1445785	4.99
MB 280-92311/1-A		677946	2.06	2157242	3.03	1324486	4.99
LCS 280-92311/2-A		560511	2.06	1975824	3.03	1367068	4.99
280-21683-33	MG31 SB113	586066	2.06	2049974	3.03	1323995	4.99
280-21683-34	MG31 SB114	669603	2.06	2262614	3.03	1354901	4.99
280-21683-35	MG30 SB111	634009	2.06	2194585	3.03	1322175	4.99
280-21683-36	MG30 SB112	577794	2.06	1963870	3.03	1173984	4.99
280-21683-37	MG29 SB109	669686	2.06	2111309	3.03	1319896	4.99
280-21683-38	MG29 SB110	603846	2.06	2095031	3.03	1477569	4.99
CCV 280-94192/92		501983	2.06	1751377	3.03	1199187	4.95
280-21683-39	MG06 SB062	660476	2.06	2153188	3.03	1456660	4.95
280-21683-40	MG06 SB063	569952	2.06	1606354	3.03	1509005	4.95
280-21683-41	MG06 SB064	594286	2.06	1860522	3.03	1344045	4.95

HXC4 = HMX-13C4
HHTT = Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3
DNB4 = 1,3-Dinitrobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		HXC4		HHTT		DNB4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		562630	2.06	2127170	3.03	1552444	4.99
UPPER LIMIT		1125260	2.56	4254340	3.53	3104888	5.49
LOWER LIMIT		281315	1.56	1063585	2.53	776222	4.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
280-21683-42	MG05 SB060	656642	2.06	2213337	3.03	1397241	4.99
280-21683-43	MG05 SB061	662629	2.06	1934439	3.03	1446131	4.99
280-21683-44	MG04 SB058	569120	2.06	1706475	3.03	1391865	4.99
280-21683-45	MG04 SB059	606174	2.06	1895767	3.03	1328317	4.99
280-21683-46	MG03 SB056	571527	2.06	1934481	3.03	1376667	4.99
CCV 280-94192/101		507034	2.06	1639821	3.03	1247639	4.99
280-21683-47	MG03 SB057	537297	2.06	1632762	3.03	1229557	4.99
280-21683-47 MS	MG03 SB057 MS	595147	2.06	1675857	3.03	1544103	4.95
280-21683-47 MSD	MG03 SB057 MSD	492111	2.06	1803077	3.03	1308032	4.99
280-21683-48	MG02 SB054	709918	2.06	2074657	3.03	1267521	4.95
280-21683-49	MG02 SB055	783672	2.06	2094540	3.03	1619981	4.99
280-21683-50	MG15 SB081	703504	2.06	2280692	3.03	1422377	4.99
280-21683-51	MG15 SB082	704993	2.06	2324108	3.03	1385975	4.99
280-21683-52	MG12 SB073	721364	2.06	2322400	3.03	1358611	4.99
CCV 280-94192/110		407574	2.06	1506077	3.03	1106629	4.95
CCV 280-94193/110		407574	2.06	1506077	3.03	1106629	4.95
MB 280-92097/1-A		532190	2.06	1805352	3.03	1114200	4.95
LCS 280-92097/2-A		453927	2.06	1760626	3.03	1204843	4.95
280-21683-53	MG12 SB075	550449	2.06	2222412	3.03	1415545	4.95
280-21683-54	MG12 SB074	648450	2.06	1941596	3.03	1470071	4.95
280-21683-54 MS	MG12 SB074 MS	396435	2.06	1770581	3.03	1254665	4.99
280-21683-54 MSD	MG12 SB074 MSD	500090	2.06	1806898	3.03	1272016	4.99
280-21683-55	MG11 SB071	644428	2.06	1860904	3.03	1170713	4.99
280-21683-56	MG11 SB072	623995	2.06	2224038	3.03	1274561	4.95
CCV 280-94193/119		603141	2.06	2089401	3.03	1405828	4.95
280-21683-57	MG14 SB079	706127	2.06	2226659	3.03	1306396	4.95
280-21683-58	MG14 SB080	570027	2.06	1816539	3.03	1153836	4.95
280-21683-59	MG13 SB077	655599	2.06	2202952	3.03	1360667	4.99
280-21683-60	MG13 SB078	606475	2.06	1977511	3.03	1337448	4.99
280-21683-61	MG16 SB083	536020	2.06	1942070	3.03	1161627	4.99

HXC4 = HMX-13C4
HHTT = Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3
DNB4 = 1,3-Dinitrobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		HXC4		HHTT		DNB4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		562630	2.06	2127170	3.03	1552444	4.99
UPPER LIMIT		1125260	2.56	4254340	3.53	3104888	5.49
LOWER LIMIT		281315	1.56	1063585	2.53	776222	4.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
280-21683-62	MG16 SB084	548920	2.06	1830986	3.03	1160616	4.99
280-21683-63	MG09 SB069	580491	2.06	2039962	3.03	1323226	4.99
280-21683-64	MG09 SB070	578027	2.06	1956261	3.03	1420008	4.99
CCV 280-94193/128		493631	2.06	1767112	3.03	1092873	4.99
280-21683-65	MG08 SB067	540171	2.06	2111984	3.03	1259560	4.99
280-21683-66	MG08 SB068	459432	2.06	1518378	3.03	1227072	4.99
280-21683-67	MG07 SB065	591139	2.06	2139022	3.03	1344376	4.99
280-21683-68	MG07 SB066	580635	2.06	1935082	3.03	1181151	4.99
280-21683-69	MG17 SB085	682681	2.06	2219955	3.03	1380220	4.99
280-21683-70	MG17 SB086	610276	2.06	2261468	3.03	1318697	4.99
280-21683-71	MG17 SB087	642945	2.06	2021797	3.03	1306511	4.99
280-21683-72	MG18 SB088	596910	2.06	2002657	3.03	1323185	4.99
CCV 280-94193/137		591285	2.06	2013215	3.03	1367657	4.99
CCV 280-94194/137		591285	2.06	2013215	3.03	1367657	4.99
MB 280-92102/1-A		579920	2.06	1989483	3.03	1162066	4.95
LCS 280-92102/2-A		566505	2.06	2159346	3.03	1337469	4.95
280-21683-73	MG18 SB089	622772	2.06	2095460	3.03	1196141	4.99
280-21683-77	CP10 SB014	606466	2.06	2027320	3.03	1290927	4.99
280-21683-78	CP10 SB015	523517	2.06	1892077	3.03	1229398	4.99
280-21683-79	CP09 SB012	571934	2.06	1955394	3.03	1257265	4.99
280-21683-80	CP09 SB013	641128	2.06	2123985	3.03	1209943	4.95
280-21683-80 MS	CP09 SB013 MS	475618	2.06	1774250	3.03	1254852	4.99
280-21683-80 MSD	CP09 SB013 MSD	399116	2.06	1440943	3.03	1164373	4.99
CCV 280-94194/147		528775	2.06	1882015	3.03	1205708	4.99
280-21683-81	CP08 SB009	569902	2.06	2020650	3.03	1423125	4.99
280-21683-82	CP08 SB010	581729	2.06	1779219	3.03	1324155	4.95
280-21683-83	CP08 SB011	585777	2.06	2013007	3.03	1319919	4.95
280-21683-84	CP11 SB16A	668518	2.06	2253031	3.03	1385789	4.99
280-21683-85	CP11 SB16B	595193	2.06	2169296	3.03	1274618	4.99
280-21683-86	CP07 SB007	616269	2.06	2021354	3.03	1243533	4.99

HXC4 = HMX-13C4
HHTT = Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3
DNB4 = 1,3-Dinitrobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4 Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2(mm) Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		HXC4		HHTT		DNB4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		562630	2.06	2127170	3.03	1552444	4.99
UPPER LIMIT		1125260	2.56	4254340	3.53	3104888	5.49
LOWER LIMIT		281315	1.56	1063585	2.53	776222	4.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
280-21683-87	CP07 SB008	645873	2.06	2088625	3.03	1313724	4.95
280-21683-88	CP04 SB001	626812	2.06	2006813	3.03	1247805	4.95
CCV 280-94194/156		655711	2.06	2033989	3.03	1206795	4.95
280-21683-89	CP04 SB002	509796	2.06	1606803	3.03	1221831	4.95
280-21683-90	CP06 SB005	607466	2.06	1966311	3.03	1275489	4.95
280-21683-91	CP06 SB006	576442	2.06	1983051	3.03	1459153	4.95
280-21683-92	CP05 SB003	584409	2.06	1949172	3.03	1505767	4.95
280-21683-93	CP05 SB004	739560	2.06	1955593	3.03	1347828	4.95
280-21683-94	CP12 SB017	666822	2.06	2294291	3.03	1355843	4.95
280-21683-95	CP12 SB018	606145	2.06	1963041	3.03	1198931	4.95
CCV 280-94194/164		498886	2.06	1859604	3.03	1232467	4.95
CCV 280-94252/164		498886	2.06	1859604	3.03	1232467	4.95
MB 280-93548/1-A		618471	2.06	1915623	3.03	1391829	4.95
LCS 280-93548/2-A		472885	2.06	1816603	3.03	1370999	4.95
GB 280-92116/1-B		617110	2.06	2012248	3.03	1191533	4.95
LCSSRM 280-92116/2-B		473445	2.06	1912642	3.03	1256065	4.95
280-21683-2	MG19 IS016	588591	2.06	1287348	3.03	1404785	4.95
280-21683-3	MG19 IS017	601344	2.06	1512096	3.03	1299005	4.95
280-21683-4	MG19 IS018	510203	2.06	1162269	3.03	1307984	4.95
280-21683-74	CP01 IS01	568952	2.06	1875417	3.03	1405591	4.95
280-21683-75	CP01 IS02	623264	2.06	2003051	3.03	1346528	4.95
280-21683-76	CP01 IS03	630228	2.06	1936222	3.03	1405738	4.95
CCV 280-94252/175		540942	2.06	1770166	3.03	1345773	4.95
CCV 280-94252/184		380675	2.06	1409235	3.03	1263585	4.95

HXC4 = HMX-13C4
HHTT = Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3
DNB4 = 1,3-Dinitrobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		DNT3					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		4571849	7.25				
UPPER LIMIT		9143698	7.75				
LOWER LIMIT		2285925	6.75				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 280-92354/8		4206276	7.26				
ICV 280-92354/10		4927567	7.23				
CCV 280-92961/148		4954707	7.17				
MB 280-92314/1-A		5373114	7.17				
LCS 280-92314/2-A		5495787	7.20				
280-21683-13	MG23 SB099	5167748	7.20				
280-21683-14	MG25 SB103	5416962	7.20				
280-21683-15	MG23 SB098	4743558	7.23				
280-21683-16	MG21 SB093	5510480	7.20				
280-21683-17	MG24 SB100	4917317	7.20				
280-21683-18	MG21 SB092	6027463	7.20				
280-21683-18 MS	MG21 SB092 MS	5601560	7.20				
280-21683-18 MSD	MG21 SB092 MSD	5014572	7.20				
CCV 280-92961/159		5510671	7.20				
280-21683-19	MG35 SB123	5335430	7.20				
280-21683-20	MG26 SB105	5044718	7.20				
280-21683-21	MG24 SB101	4899815	7.20				
280-21683-22	MG35 SB124	4731524	7.20				
280-21683-23	MG35 SB125	5329310	7.23				
280-21683-24	MG36 SB126	4654165	7.20				
280-21683-25	MG36 SB127	4473282	7.20				
CCV 280-92961/167		4803510	7.20				
280-21683-26	MG32 SB115	4903297	7.20				
280-21683-27	MG32 SB116	4889191	7.20				
280-21683-28	MG33 SB117	5210747	7.17				
280-21683-29	MG33 SB119	5121479	7.20				
280-21683-30	MG33 SB118	5286157	7.17				
280-21683-31	MG34 SB121	5468467	7.20				
280-21683-32	MG34 SB122	5962970	7.20				
CCV 280-92961/175		5146922	7.20				

DNT3 = 2,4-dinitrotoluene-d3

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		DNT3					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		4571849	7.25				
UPPER LIMIT		9143698	7.75				
LOWER LIMIT		2285925	6.75				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 280-92964/175		5146922	7.20				
MB 280-92315/1-A		4936321	7.20				
LCS 280-92315/2-A		5087380	7.20				
280-21683-1	MG26 SB104	5310207	7.20				
280-21683-5	MG20 SB090	5594194	7.20				
280-21683-6	MG20 SB091	5401099	7.17				
280-21683-7	MG22 SB094	5204177	7.17				
280-21683-8	MG22 SB095	5454735	7.17				
CCV 280-92964/183		4623294	7.20				
CCV 280-92964/191		4265906	7.23				
280-21683-9	MG22 SB096	5220153	7.20				
280-21683-10	MG27 SB107	5109560	7.20				
280-21683-11	MG27 SB106	5356078	7.20				
280-21683-11 MS	MG27 SB106 MS	4959096	7.26				
280-21683-11 MSD	MG27 SB106 MSD	5403949	7.26				
280-21683-12	MG25 SB102	5161204	7.29				
CCV 280-92964/198		4836070	7.26				
CCV 280-94192/83		4431277	7.23				
MB 280-92311/1-A		4024668	7.23				
LCS 280-92311/2-A		3792102	7.23				
280-21683-33	MG31 SB113	4013912	7.23				
280-21683-34	MG31 SB114	4124347	7.23				
280-21683-35	MG30 SB111	4190325	7.23				
280-21683-36	MG30 SB112	3627106	7.23				
280-21683-37	MG29 SB109	3804518	7.20				
280-21683-38	MG29 SB110	4443203	7.23				
CCV 280-94192/92		3444715	7.20				
280-21683-39	MG06 SB062	4016991	7.23				
280-21683-40	MG06 SB063	3950229	7.23				
280-21683-41	MG06 SB064	4174396	7.23				

DNT3 = 2,4-dinitrotoluene-d3

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4 Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2(mm) Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		DNT3					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		4571849	7.25				
UPPER LIMIT		9143698	7.75				
LOWER LIMIT		2285925	6.75				
LAB SAMPLE ID	CLIENT SAMPLE ID						
280-21683-42	MG05 SB060	3922253	7.23				
280-21683-43	MG05 SB061	4405721	7.23				
280-21683-44	MG04 SB058	4080591	7.23				
280-21683-45	MG04 SB059	3953460	7.23				
280-21683-46	MG03 SB056	4285161	7.23				
CCV 280-94192/101		4303881	7.23				
280-21683-47	MG03 SB057	4107977	7.23				
280-21683-47 MS	MG03 SB057 MS	4216648	7.20				
280-21683-47 MSD	MG03 SB057 MSD	3985110	7.23				
280-21683-48	MG02 SB054	4155017	7.23				
280-21683-49	MG02 SB055	4713519	7.26				
280-21683-50	MG15 SB081	4156710	7.23				
280-21683-51	MG15 SB082	4160166	7.23				
280-21683-52	MG12 SB073	3561516	7.23				
CCV 280-94192/110		3570500	7.23				
CCV 280-94193/110		3570500	7.23				
MB 280-92097/1-A		3502665	7.23				
LCS 280-92097/2-A		3944882	7.23				
280-21683-53	MG12 SB075	3981007	7.20				
280-21683-54	MG12 SB074	3923110	7.23				
280-21683-54 MS	MG12 SB074 MS	3689651	7.23				
280-21683-54 MSD	MG12 SB074 MSD	3673940	7.23				
280-21683-55	MG11 SB071	3749522	7.23				
280-21683-56	MG11 SB072	3502307	7.23				
CCV 280-94193/119		4151383	7.20				
280-21683-57	MG14 SB079	3876119	7.23				
280-21683-58	MG14 SB080	3310057	7.23				
280-21683-59	MG13 SB077	3799178	7.23				
280-21683-60	MG13 SB078	3959010	7.23				
280-21683-61	MG16 SB083	3526807	7.23				

DNT3 = 2,4-dinitrotoluene-d3

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		DNT3					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		4571849	7.25				
UPPER LIMIT		9143698	7.75				
LOWER LIMIT		2285925	6.75				
LAB SAMPLE ID	CLIENT SAMPLE ID						
280-21683-62	MG16 SB084	3147084	7.23				
280-21683-63	MG09 SB069	3686827	7.23				
280-21683-64	MG09 SB070	4148053	7.23				
CCV 280-94193/128		3359494	7.23				
280-21683-65	MG08 SB067	4038412	7.23				
280-21683-66	MG08 SB068	3962372	7.23				
280-21683-67	MG07 SB065	4091681	7.23				
280-21683-68	MG07 SB066	3556589	7.23				
280-21683-69	MG17 SB085	4148527	7.23				
280-21683-70	MG17 SB086	3835756	7.23				
280-21683-71	MG17 SB087	3867619	7.23				
280-21683-72	MG18 SB088	3919498	7.23				
CCV 280-94193/137		4345645	7.23				
CCV 280-94194/137		4345645	7.23				
MB 280-92102/1-A		3656455	7.23				
LCS 280-92102/2-A		4024420	7.23				
280-21683-73	MG18 SB089	3512189	7.23				
280-21683-77	CP10 SB014	3930762	7.23				
280-21683-78	CP10 SB015	3638211	7.26				
280-21683-79	CP09 SB012	3297290	7.23				
280-21683-80	CP09 SB013	3570081	7.23				
280-21683-80 MS	CP09 SB013 MS	3643849	7.23				
280-21683-80 MSD	CP09 SB013 MSD	3648195	7.23				
CCV 280-94194/147		3597600	7.23				
280-21683-81	CP08 SB009	3999028	7.23				
280-21683-82	CP08 SB010	3739740	7.23				
280-21683-83	CP08 SB011	3764068	7.23				
280-21683-84	CP11 SB16A	3971757	7.23				
280-21683-85	CP11 SB16B	3641290	7.23				
280-21683-86	CP07 SB007	3764760	7.20				

DNT3 = 2,4-dinitrotoluene-d3

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4 Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2(mm) Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		DNT3					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		4571849	7.25				
UPPER LIMIT		9143698	7.75				
LOWER LIMIT		2285925	6.75				
LAB SAMPLE ID	CLIENT SAMPLE ID						
280-21683-87	CP07 SB008	4193044	7.20				
280-21683-88	CP04 SB001	3527148	7.20				
CCV 280-94194/156		3895156	7.20				
280-21683-89	CP04 SB002	4267005	7.23				
280-21683-90	CP06 SB005	3872145	7.20				
280-21683-91	CP06 SB006	3647760	7.20				
280-21683-92	CP05 SB003	3867358	7.20				
280-21683-93	CP05 SB004	3892997	7.20				
280-21683-94	CP12 SB017	4136891	7.20				
280-21683-95	CP12 SB018	3721761	7.23				
CCV 280-94194/164		3464165	7.23				
CCV 280-94252/164		3464165	7.23				
MB 280-93548/1-A		3171776	7.23				
LCS 280-93548/2-A		3749162	7.20				
GB 280-92116/1-B		3705461	7.20				
LCSSRM 280-92116/2-B		4051097	7.20				
280-21683-2	MG19 IS016	4124625	7.20				
280-21683-3	MG19 IS017	3962561	7.20				
280-21683-4	MG19 IS018	3989517	7.20				
280-21683-74	CP01 IS01	3751513	7.23				
280-21683-75	CP01 IS02	4213671	7.23				
280-21683-76	CP01 IS03	4322850	7.20				
CCV 280-94252/175		3873083	7.20				
CCV 280-94252/184		3543875	7.20				

DNT3 = 2,4-dinitrotoluene-d3

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG26 SB104 | Lab Sample ID: 280-21683-1

Matrix: Solid | Lab File ID: ex41J21183.d

Analysis Method: 8321B | Date Collected: 10/14/2011 09:46

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:15

Sample wt/vol: 10.24(g) | Date Analyzed: 10/25/2011 20:23

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92964 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.098	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.098	0.024	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.098	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.098	0.024	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.098	0.024	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U Q	0.098	0.012	0.0050
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21183.d		
Lims ID:	280-21683-B-1-B	Client ID:	SB104
Inject. Date:	25-Oct-2011 20:23:14	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-1-B 280-0002644-178		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	47
Lims Batch ID:	92964	Lims Sample ID:	178
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:06	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 26-Oct-2011 06:13:57

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		762794	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3022603	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1815685	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.068							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.540	-0.034	1.111	708489	79.0			
12 Nitrobenzene										1
2	123.0		5.674							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.563							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.745							
17 2,6-Dinitrotoluene										1
3	182.0		6.897							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.262	-0.061		5310207	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.322							
20 PETN										
4	61.8		7.828							
21 3,5-Dinitrotoluene										1
3	182.0		7.960							
22 o-Nitrotoluene										1
4	137.0		8.345							
23 p-Nitrotoluene										1
4	137.0		8.891							
24 m-Nitrotoluene										
4	137.0		9.559							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.440							

QC Flag Legend

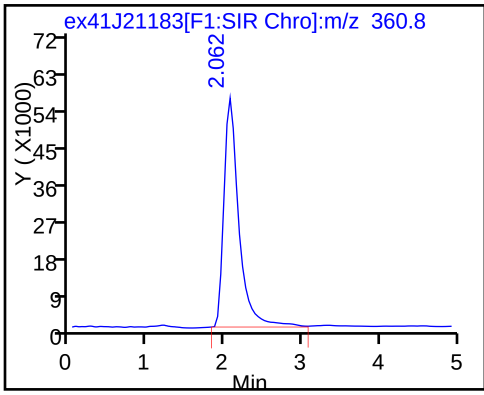
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 09:44:10　　Chrom Revision: 1.2 13-Jul-2011 10:43:06

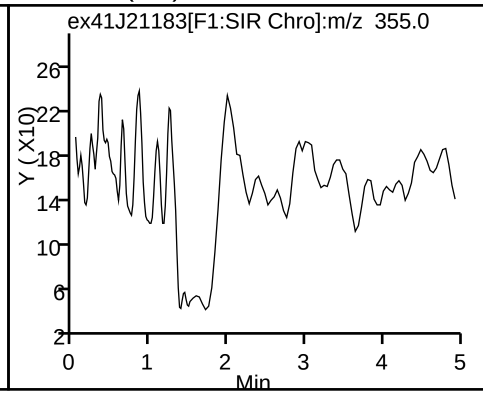
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21183.d

Injection Date:	25-Oct-2011 20:23:14	Limit Group:	LC - 8321A Expl
Client ID:	SB104	Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	178
Operator ID:		Injection Vol:	40.00 ul

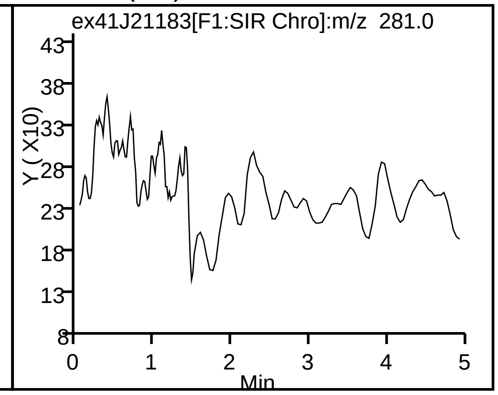
* 1 HMX-13C4



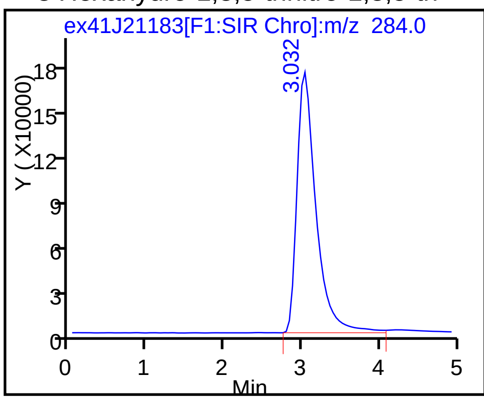
2 HMX (ND)



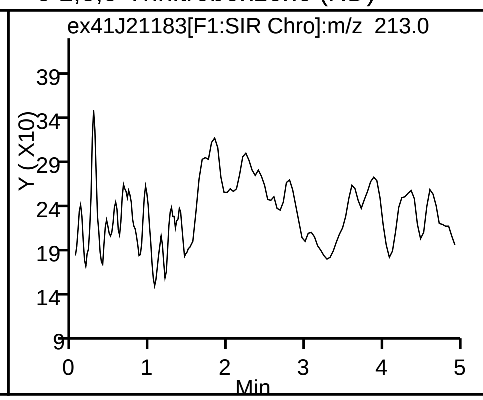
4 RDX (ND)



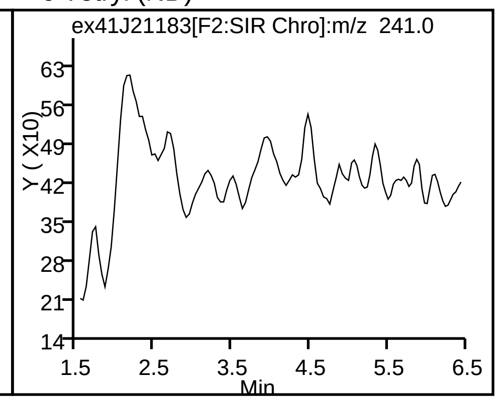
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



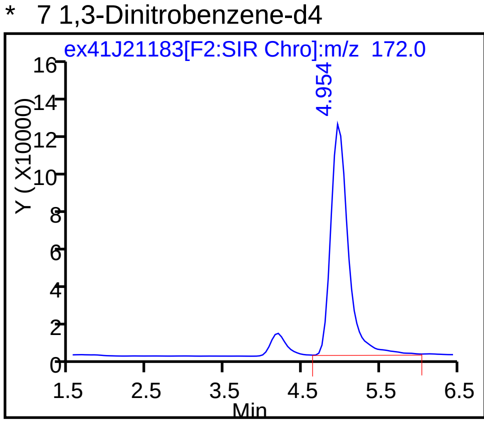
5 1,3,5-Trinitrobenzene (ND)



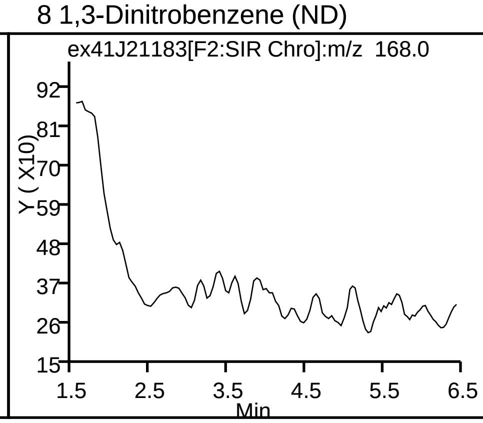
6 Tetryl (ND)



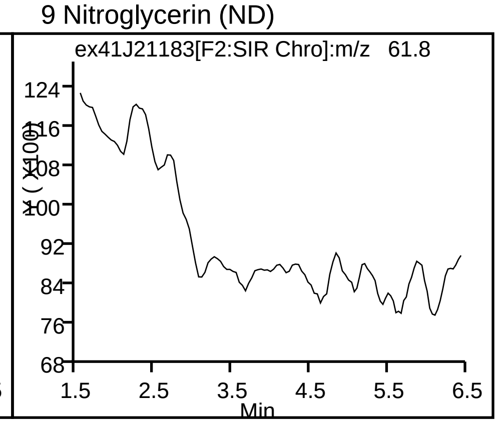
* 7 1,3-Dinitrobenzene-d4



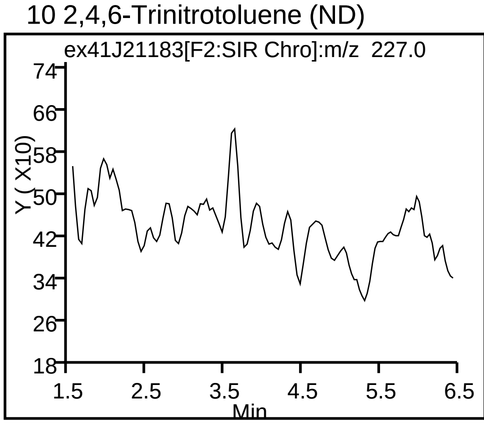
8 1,3-Dinitrobenzene (ND)



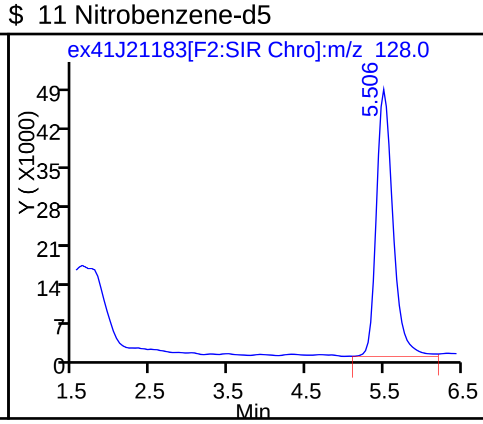
9 Nitroglycerin (ND)



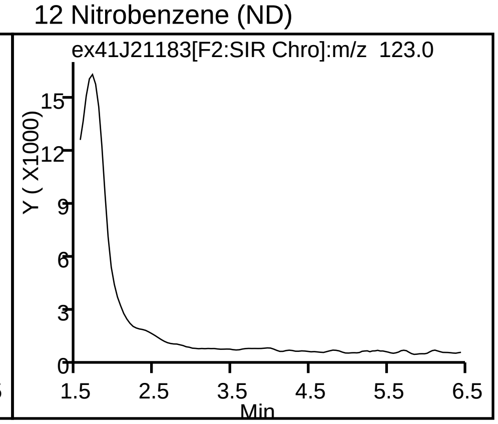
10 2,4,6-Trinitrotoluene (ND)



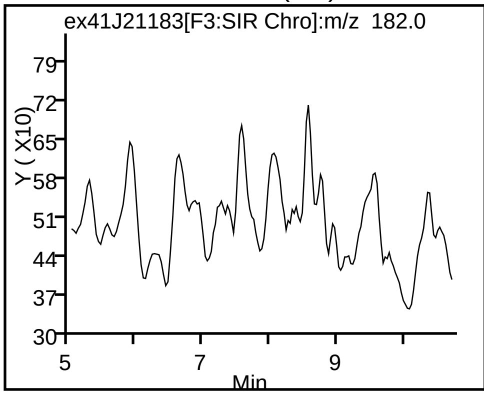
$ 11 Nitrobenzene-d5



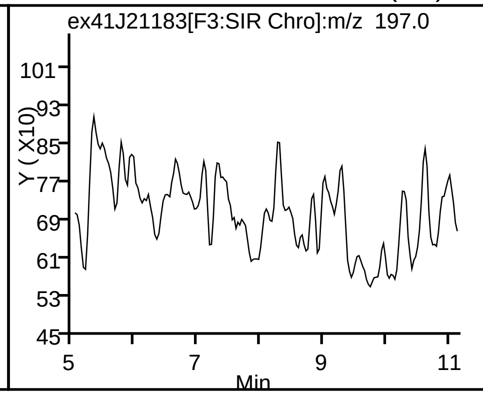
12 Nitrobenzene (ND)



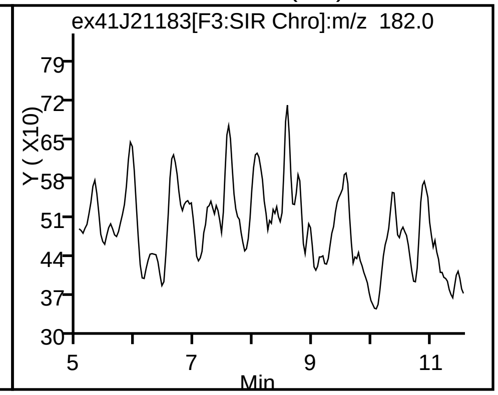
13 3,4-Dinitrotoluene (ND)



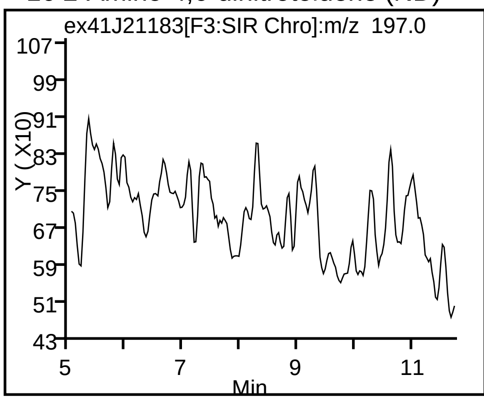
14 4-Amino-2,6-dinitrotoluene (ND)



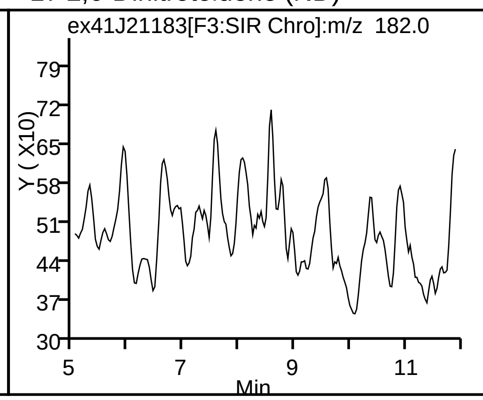
15 2,3-Dinitrotoluene (ND)



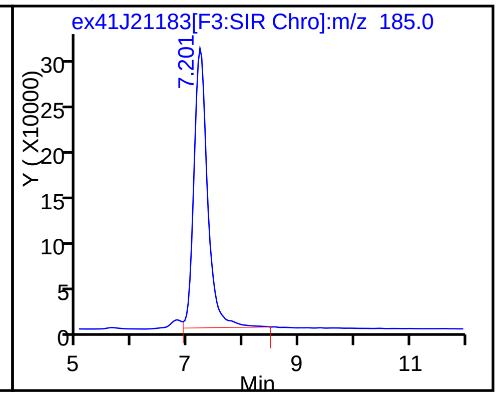
16 2-Amino-4,6-dinitrotoluene (ND)



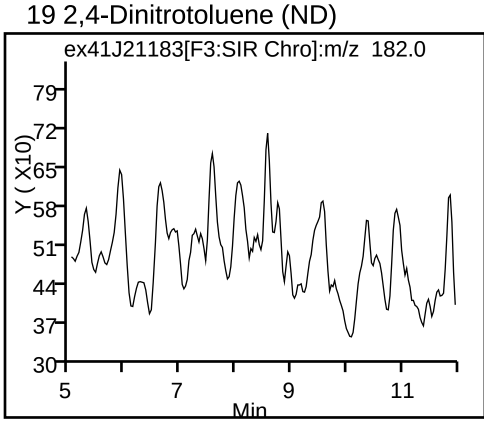
17 2,6-Dinitrotoluene (ND)



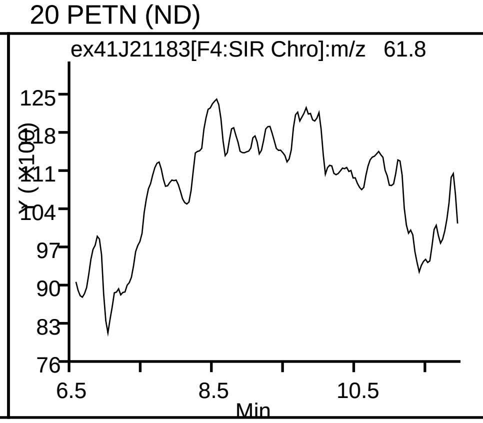
* 18 2,4-dinitrotoluene-d3



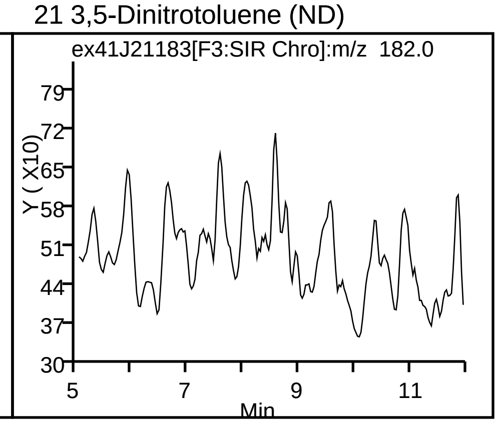
19 2,4-Dinitrotoluene (ND)



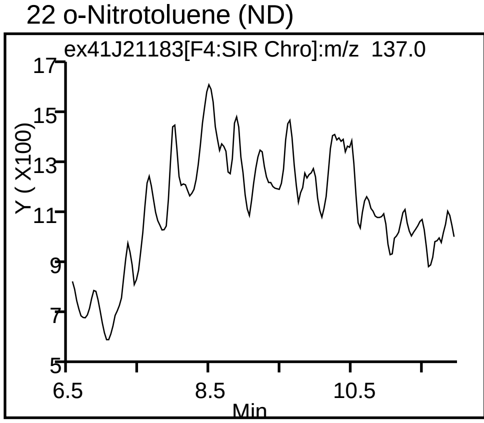
20 PETN (ND)



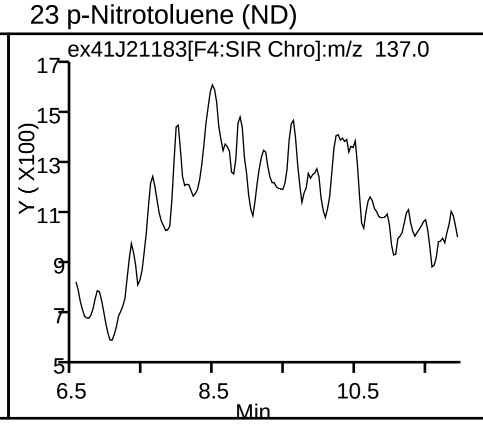
21 3,5-Dinitrotoluene (ND)



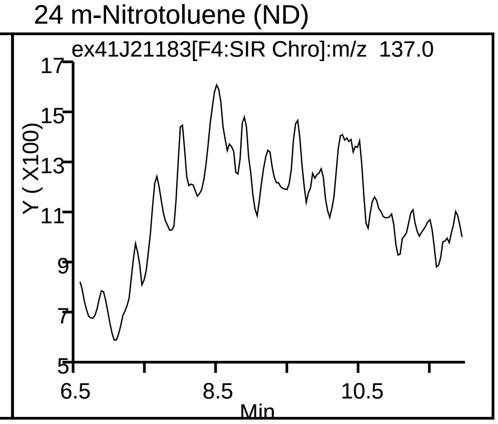
22 o-Nitrotoluene (ND)



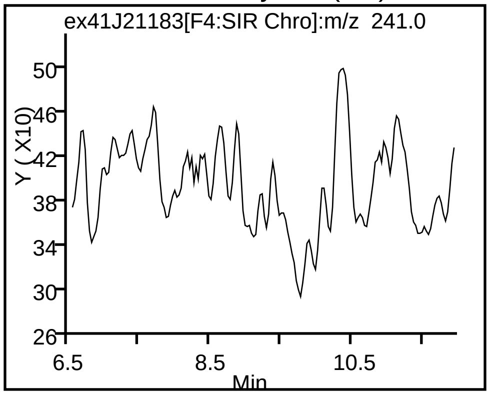
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG19 IS016 | Lab Sample ID: 280-21683-2

Matrix: Solid | Lab File ID: ex41J21645.d

Analysis Method: 8321B | Date Collected: 10/13/2011 13:15

Extraction Method: 8330B | Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.57(g) | Date Analyzed: 11/02/2011 06:36

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.0099
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	79		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21645.d		
Lims ID:	280-21683-A-2-D	Client ID:	IS016
Inject. Date:	02-Nov-2011 06:36:35	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-2-D 280-0002689-169		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	103
Lims Batch ID:	94252	Lims Sample ID:	169
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 08:23:16

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		588591	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1287348	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1404785	258.7			
8 1,3-Dinitrobenzene										
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	540843	77.9			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15	2,3-Dinitrotoluene									1
3	182.0		6.492							
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.201	0.000		4124625	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.262							
20	PETN									1
4	61.8		7.768							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									1
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

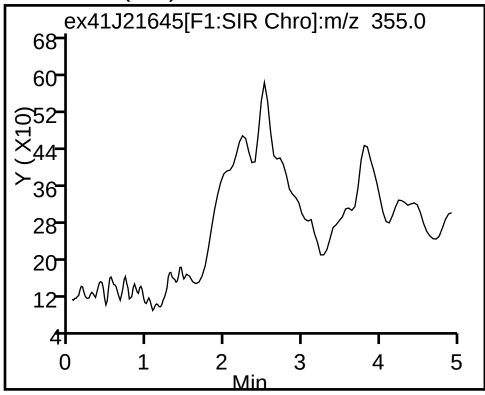
QC Flag Legend

Processing Flags
1 - Missing Peaks

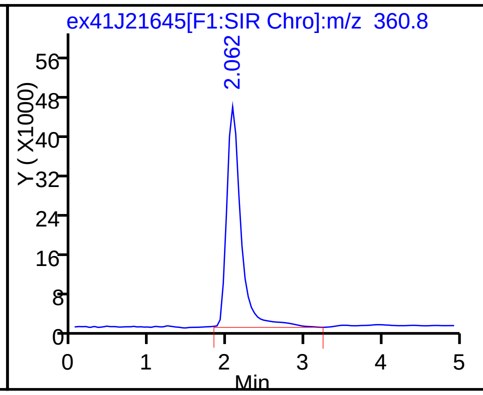
Report Date: 02-Nov-2011 10:22:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21645.d

Injection Date:	02-Nov-2011 06:36:35	Limit Group:	LC - 8321A Expl
Client ID:	IS016	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	169
Operator ID:		Injection Vol:	40.00 ul

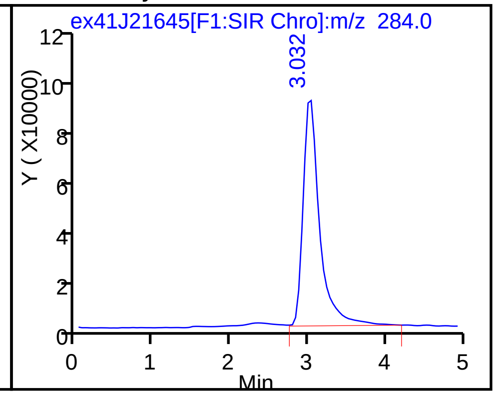
2 HMX (ND)



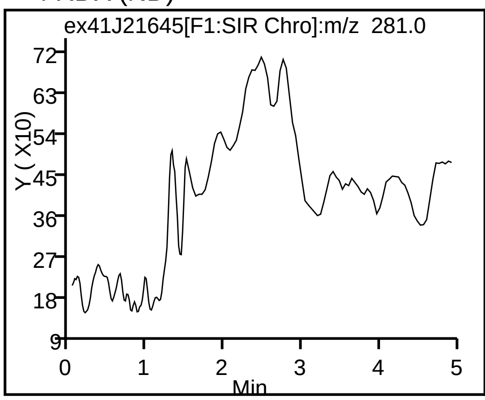
* 1 HMX-13C4



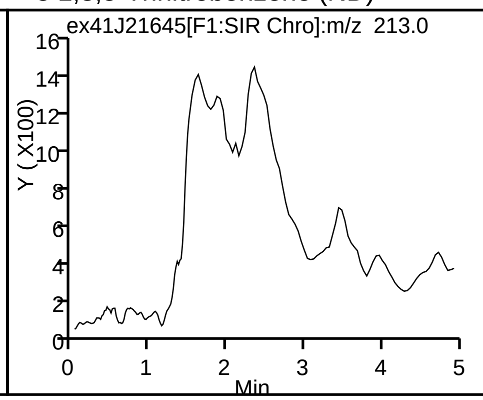
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



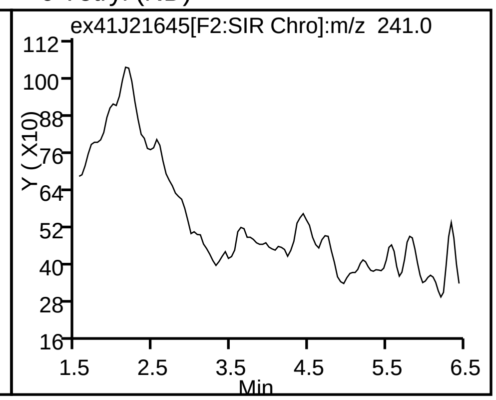
4 RDX (ND)



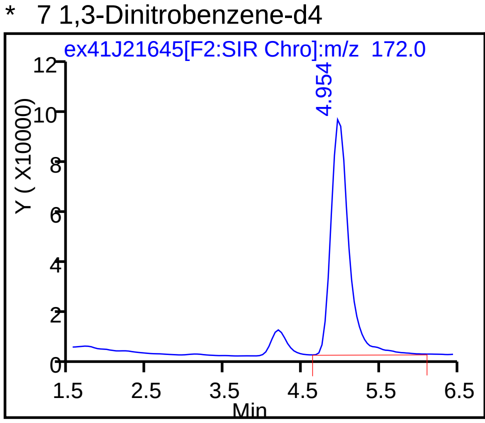
5 1,3,5-Trinitrobenzene (ND)



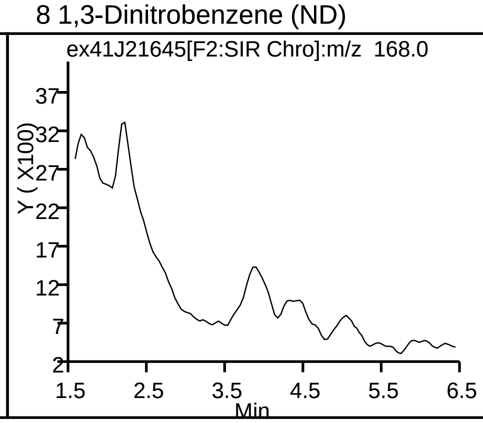
6 Tetryl (ND)



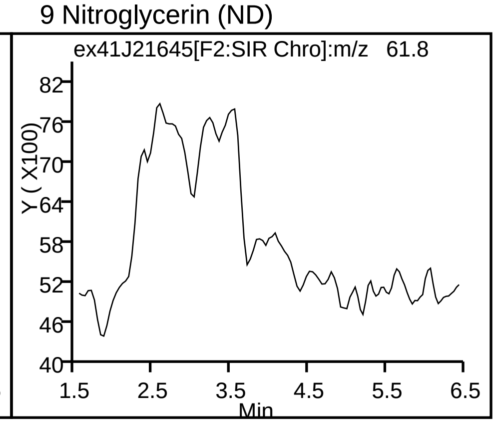
* 7 1,3-Dinitrobenzene-d4



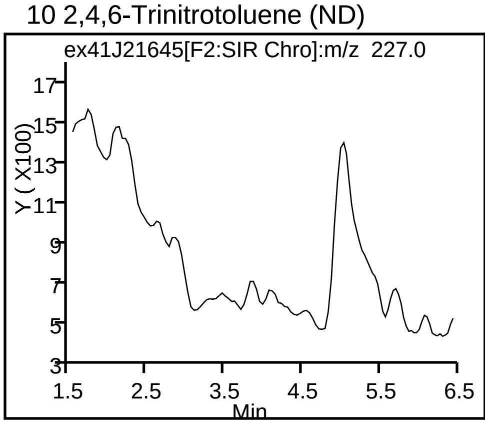
8 1,3-Dinitrobenzene (ND)



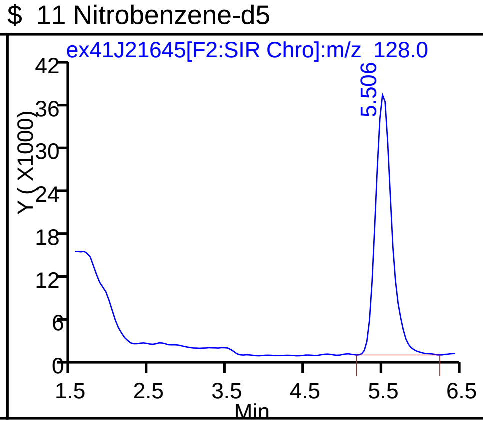
9 Nitroglycerin (ND)



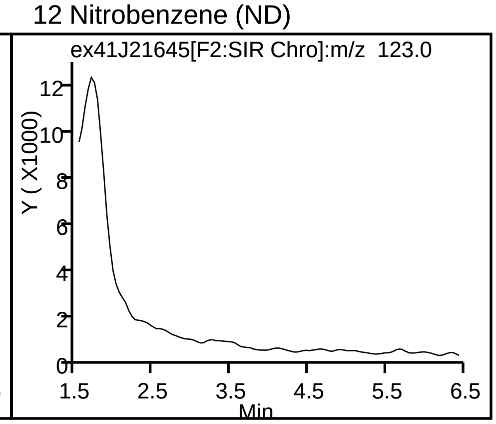
10 2,4,6-Trinitrotoluene (ND)



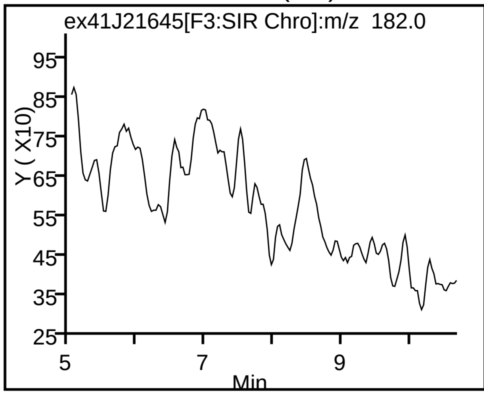
$ 11 Nitrobenzene-d5



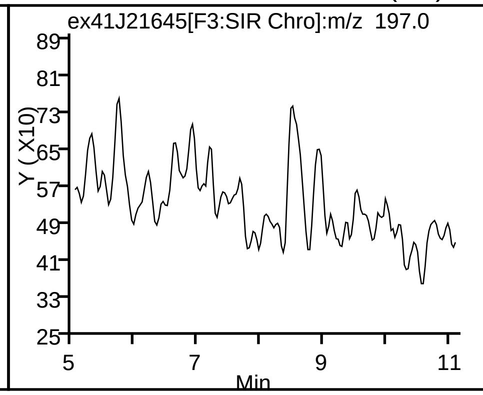
12 Nitrobenzene (ND)



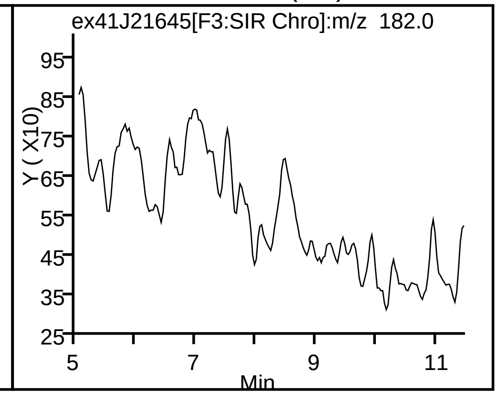
13 3,4-Dinitrotoluene (ND)



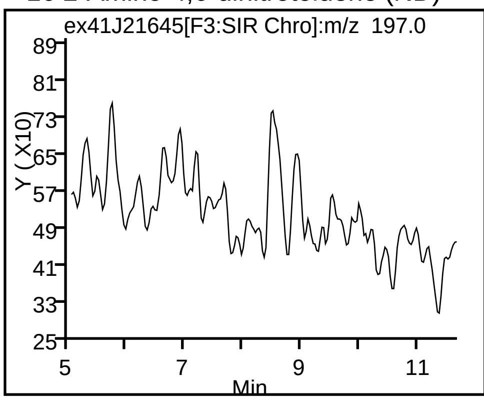
14 4-Amino-2,6-dinitrotoluene (ND)



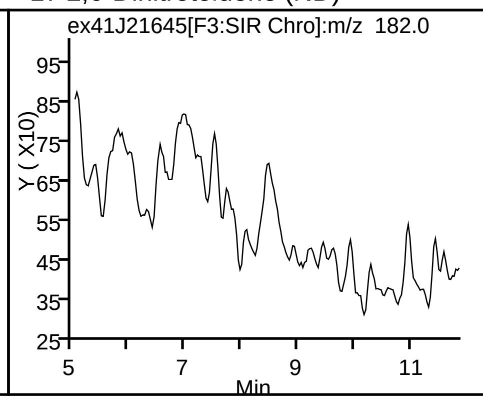
15 2,3-Dinitrotoluene (ND)



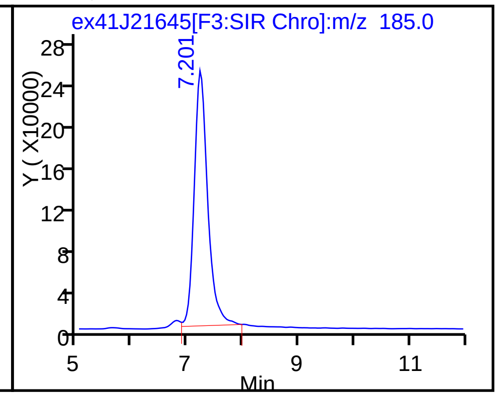
16 2-Amino-4,6-dinitrotoluene (ND)



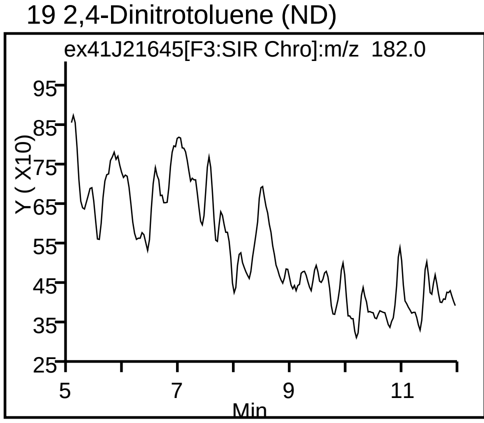
17 2,6-Dinitrotoluene (ND)



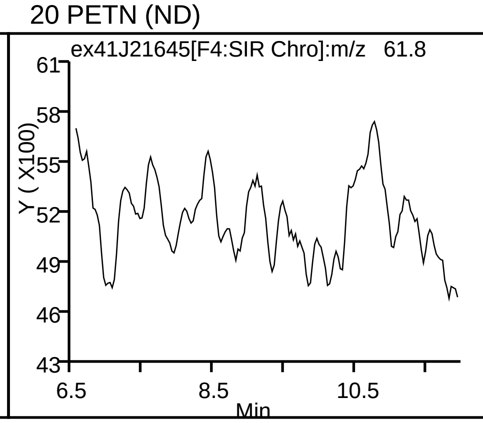
* 18 2,4-dinitrotoluene-d3



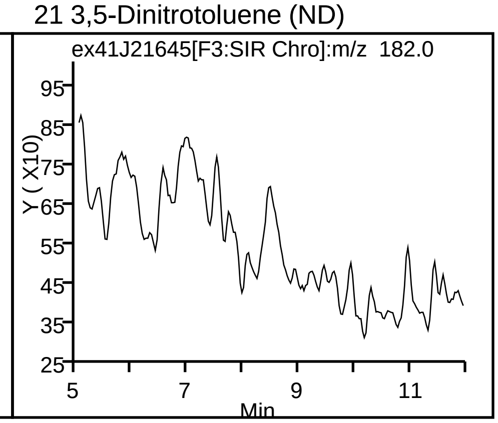
19 2,4-Dinitrotoluene (ND)



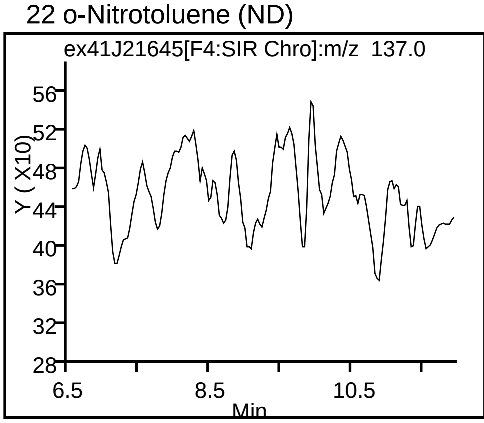
20 PETN (ND)



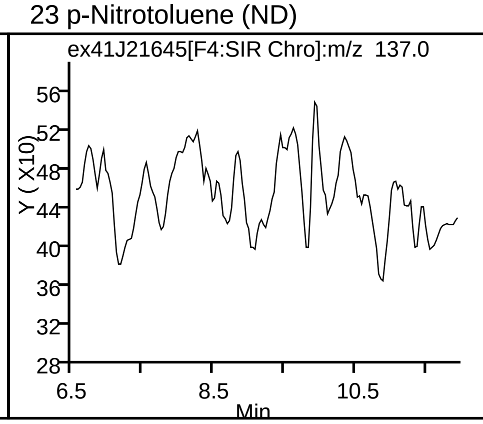
21 3,5-Dinitrotoluene (ND)



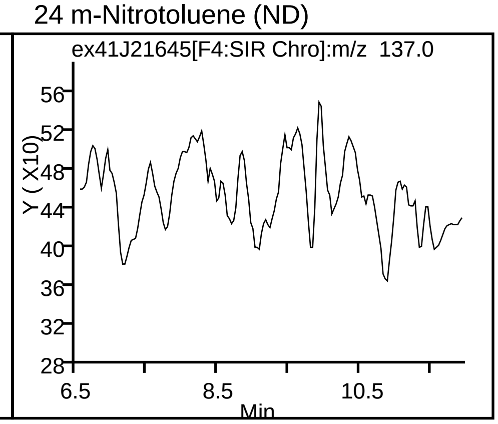
22 o-Nitrotoluene (ND)



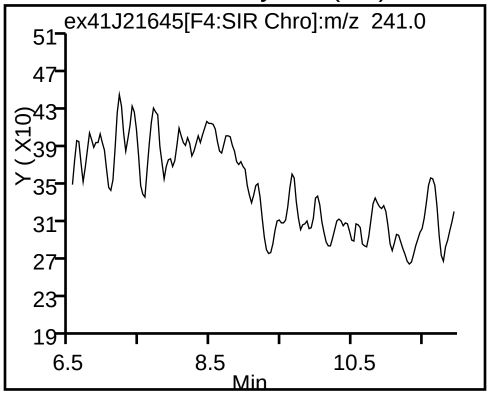
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG19 IS017 | Lab Sample ID: 280-21683-3

Matrix: Solid | Lab File ID: ex41J21646.d

Analysis Method: 8321B | Date Collected: 10/13/2011 16:53

Extraction Method: 8330B | Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.55(g) | Date Analyzed: 11/02/2011 06:50

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21646.d		
Lims ID:	280-21683-A-3-D	Client ID:	IS017
Inject. Date:	02-Nov-2011 06:50:09	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-3-D 280-0002689-170		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	104
Lims Batch ID:	94252	Lims Sample ID:	170
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 08:23:26

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		601344	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1512096	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1299005	258.7			
8 1,3-Dinitrobenzene										
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	522917	81.5			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15	2,3-Dinitrotoluene									1
3	182.0		6.492							
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.201	0.000		3962561	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.262							
20	PETN									1
4	61.8		7.768							
21	3,5-Dinitrotoluene									
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									1
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

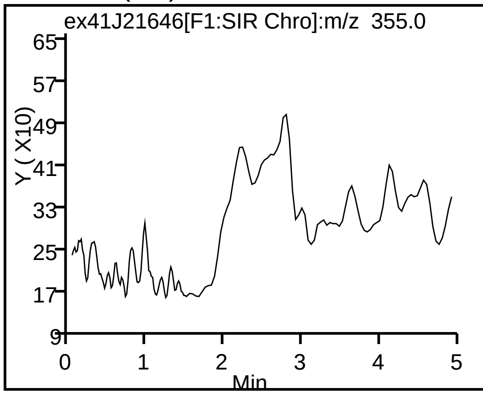
QC Flag Legend

Processing Flags
1 - Missing Peaks

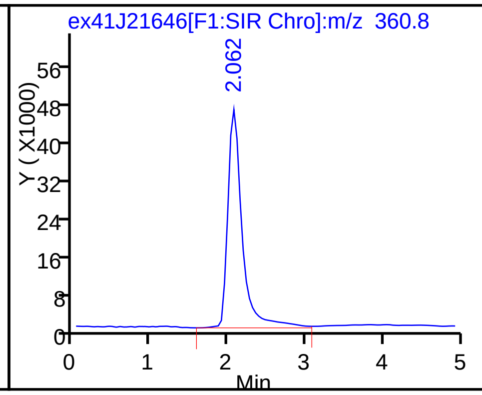
Report Date: 02-Nov-2011 10:22:27 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21646.d

Injection Date:	02-Nov-2011 06:50:09	Limit Group:	LC - 8321A Expl
Client ID:	IS017	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	170
Operator ID:		Injection Vol:	40.00 ul

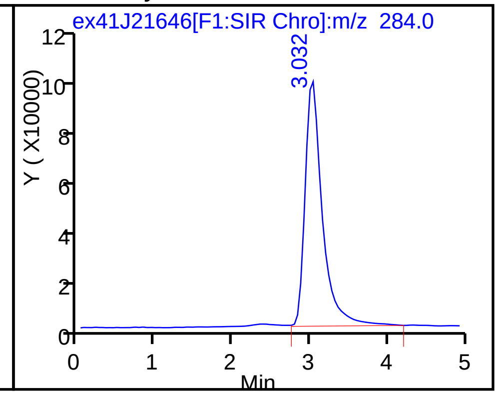
2 HMX (ND)



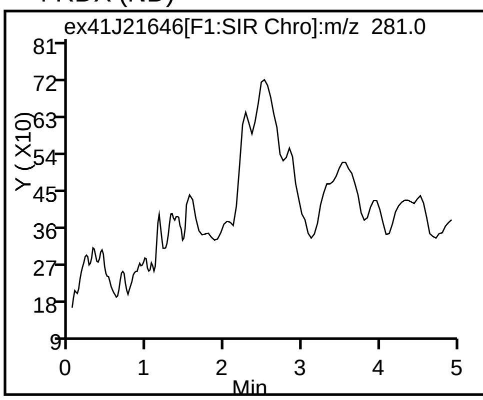
* 1 HMX-13C4



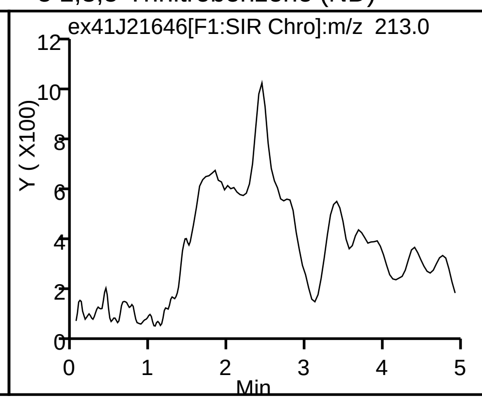
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



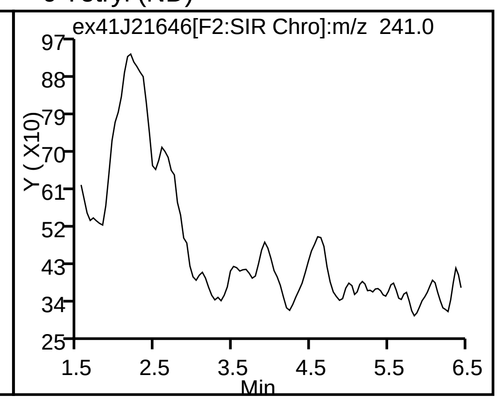
4 RDX (ND)



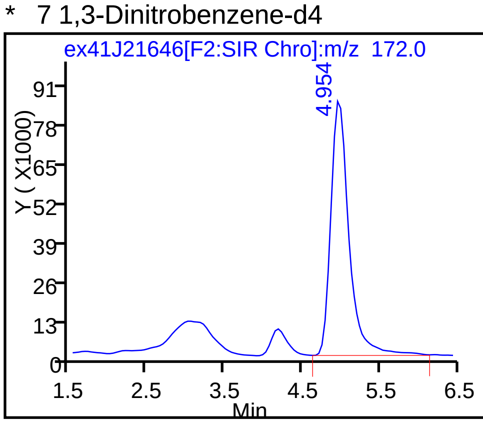
5 1,3,5-Trinitrobenzene (ND)



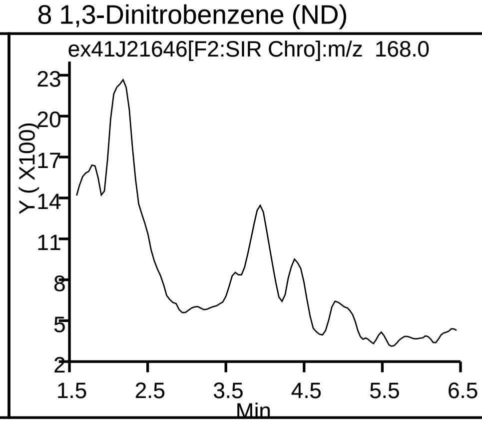
6 Tetryl (ND)



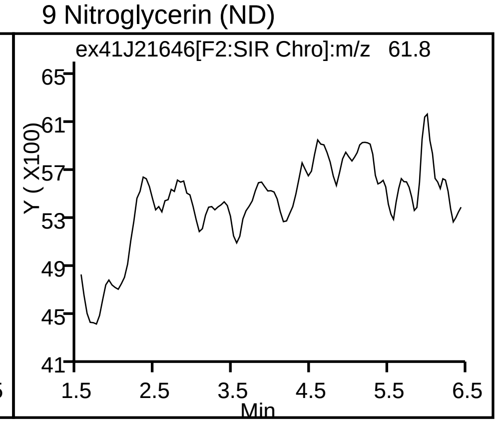
* 7 1,3-Dinitrobenzene-d4



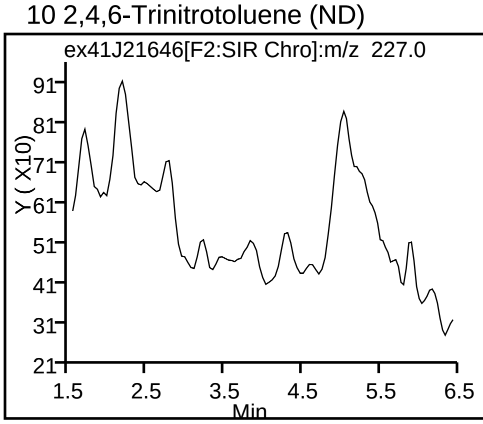
8 1,3-Dinitrobenzene (ND)



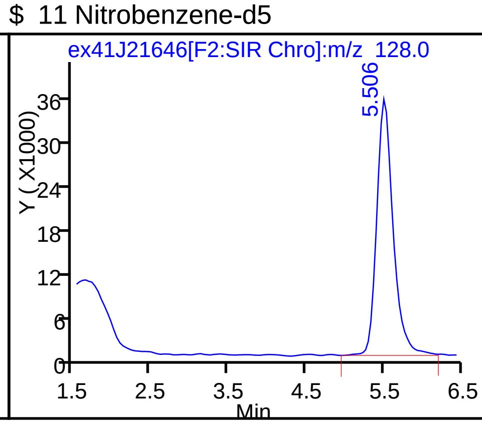
9 Nitroglycerin (ND)



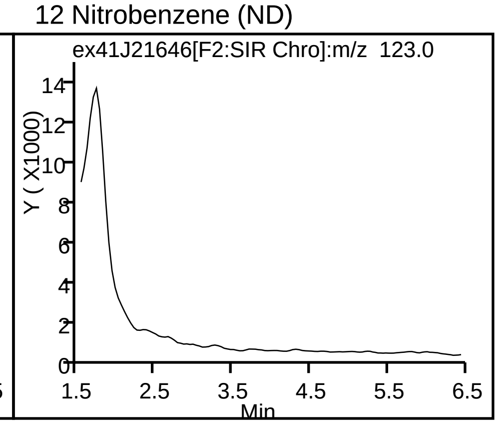
10 2,4,6-Trinitrotoluene (ND)



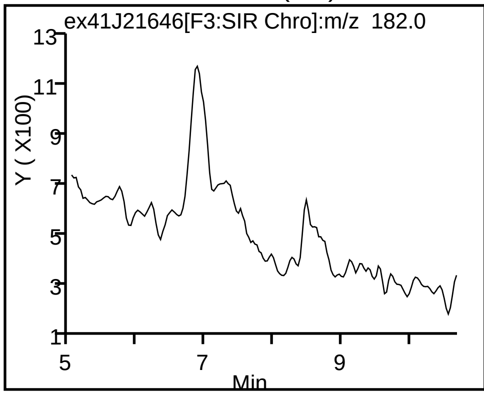
$ 11 Nitrobenzene-d5



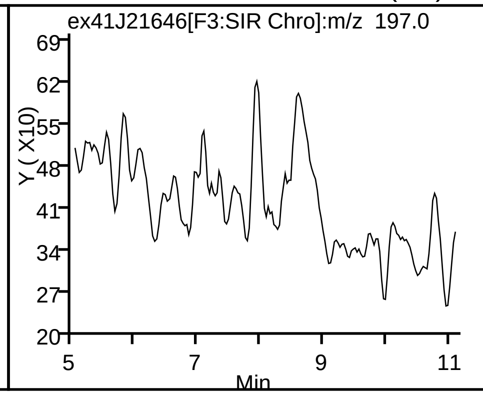
12 Nitrobenzene (ND)



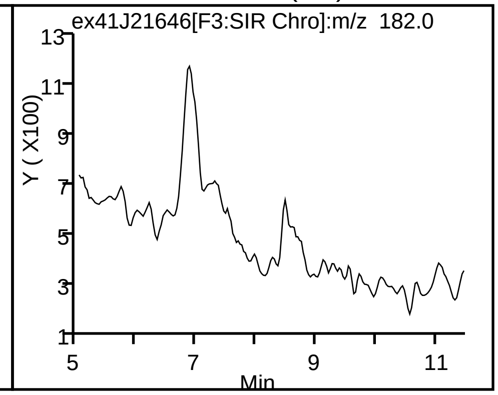
13 3,4-Dinitrotoluene (ND)



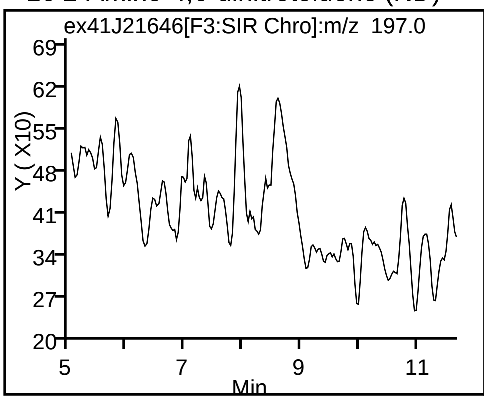
14 4-Amino-2,6-dinitrotoluene (ND)



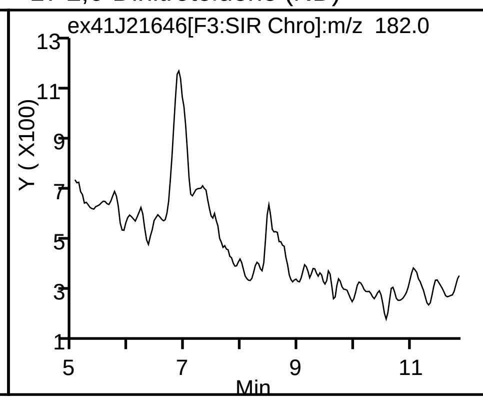
15 2,3-Dinitrotoluene (ND)



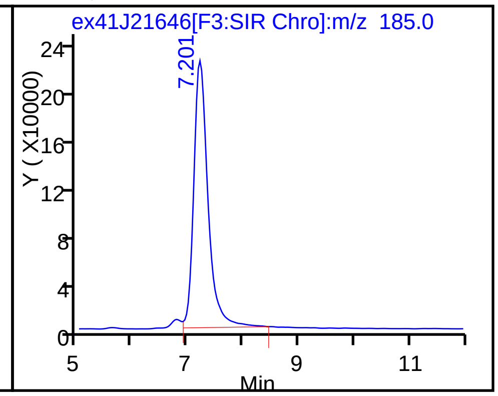
16 2-Amino-4,6-dinitrotoluene (ND)



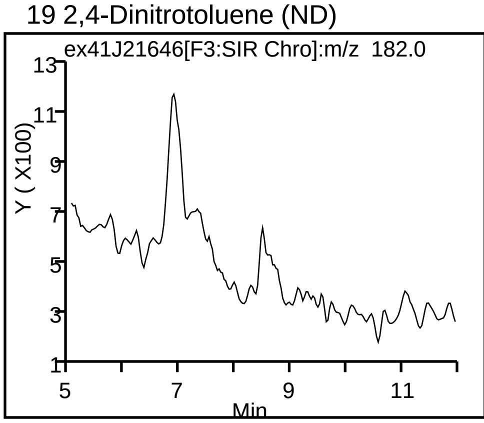
17 2,6-Dinitrotoluene (ND)



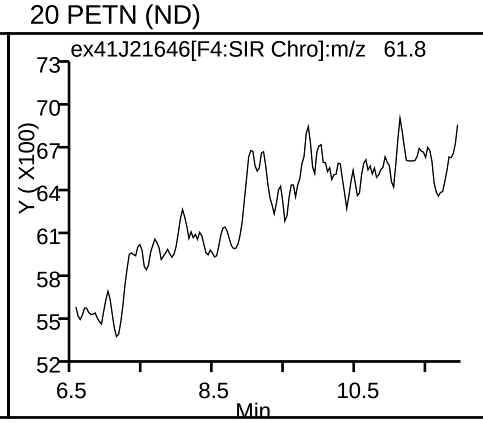
* 18 2,4-dinitrotoluene-d3



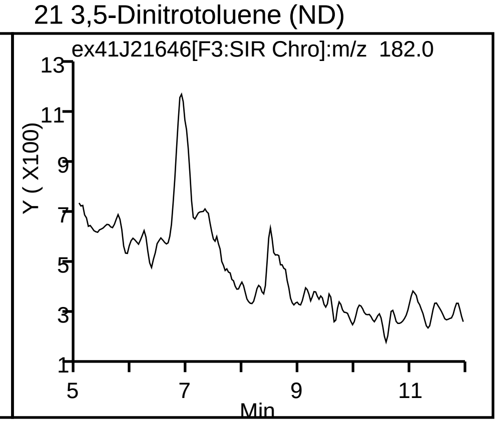
19 2,4-Dinitrotoluene (ND)



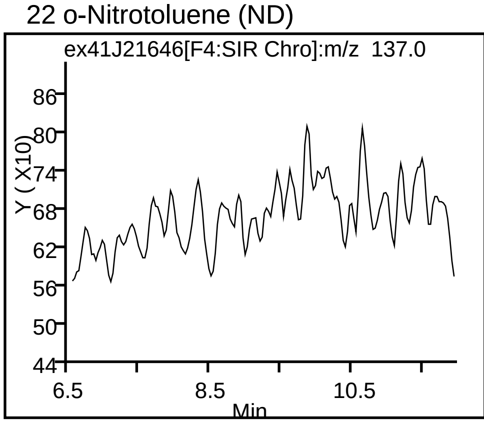
20 PETN (ND)



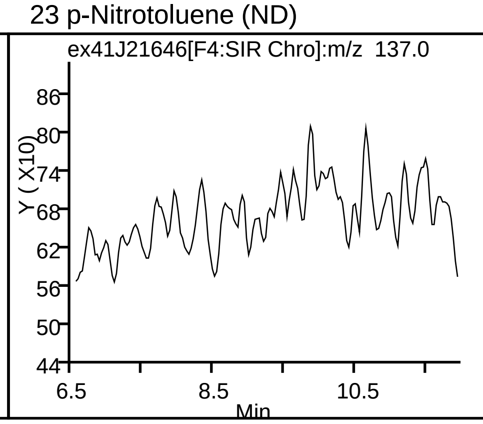
21 3,5-Dinitrotoluene (ND)



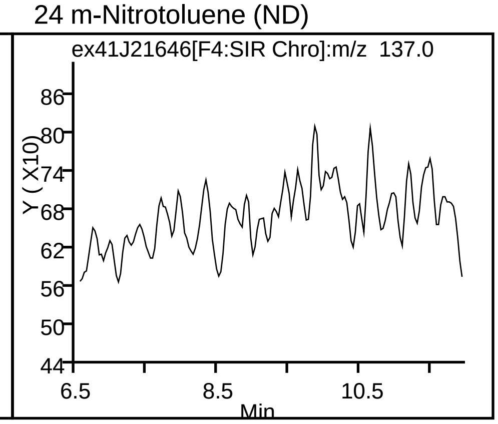
22 o-Nitrotoluene (ND)



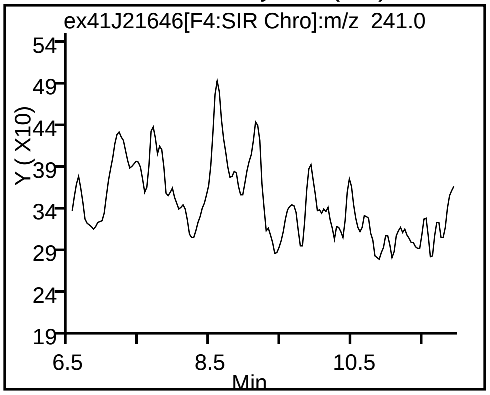
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG19 IS018   Lab Sample ID: 280-21683-4

Matrix: Solid   Lab File ID: ex41J21647.d

Analysis Method: 8321B   Date Collected: 10/14/2011 09:45

Extraction Method: 8330B   Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.19(g)   Date Analyzed: 11/02/2011 07:03

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	88		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21647.d		
Lims ID:	280-21683-A-4-D	Client ID:	IS018
Inject. Date:	02-Nov-2011 07:03:43	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-4-D 280-0002689-171		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	105
Lims Batch ID:	94252	Lims Sample ID:	171
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 02-Nov-2011 08:23:38

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		510203	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1162269	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1307984	258.7			
8 1,3-Dinitrobenzene										
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	562738	87.1			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15	2,3-Dinitrotoluene									1
3	182.0		6.492							
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.201	0.000		3989517	250.0			
19	2,4-Dinitrotoluene									
3	182.0		7.262							
20	PETN									
4	61.8		7.768							
21	3,5-Dinitrotoluene									
3	182.0		7.869							
22	o-Nitrotoluene									
4	137.0		8.254							
23	p-Nitrotoluene									
4	137.0		8.800							
24	m-Nitrotoluene									
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

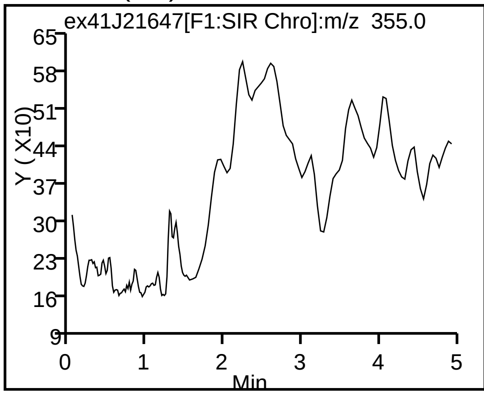
QC Flag Legend

Processing Flags
1 - Missing Peaks

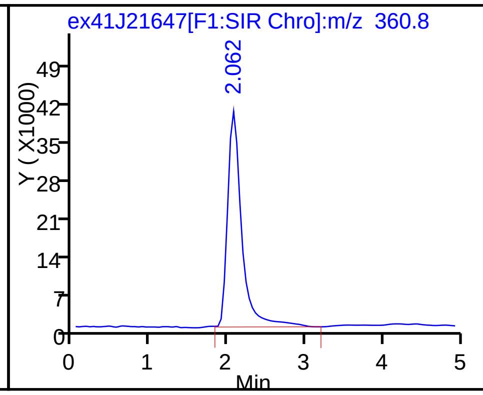
Report Date: 02-Nov-2011 10:22:28 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21647.d

Injection Date:	02-Nov-2011 07:03:43	Limit Group:	LC - 8321A Expl
Client ID:	IS018	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	171
Operator ID:		Injection Vol:	40.00 ul

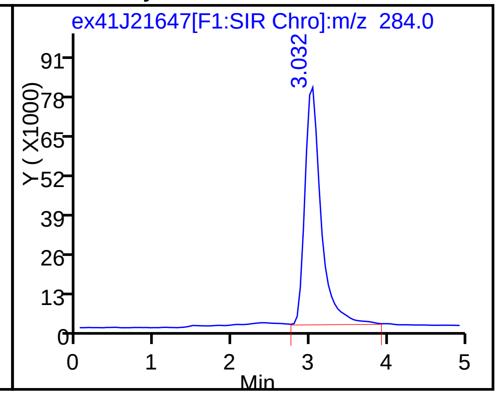
2 HMX (ND)



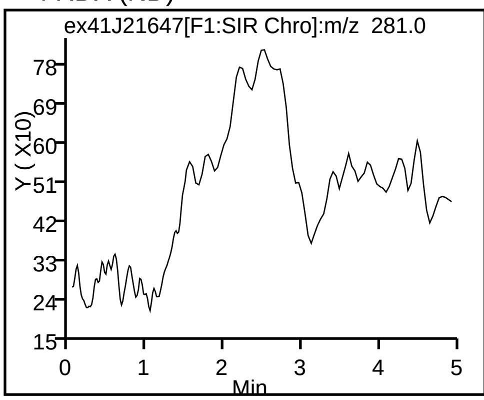
* 1 HMX-13C4



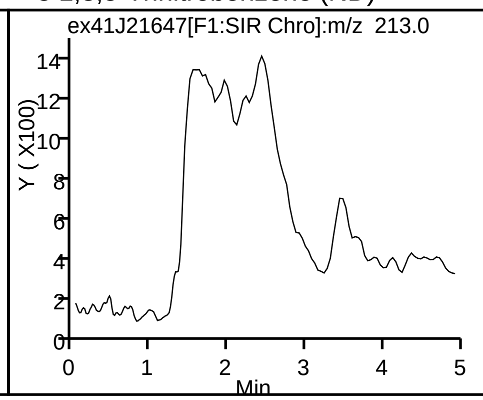
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



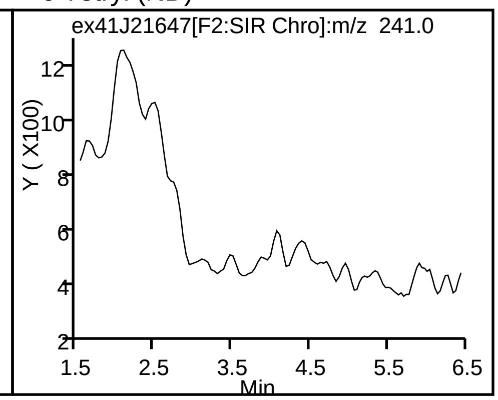
4 RDX (ND)



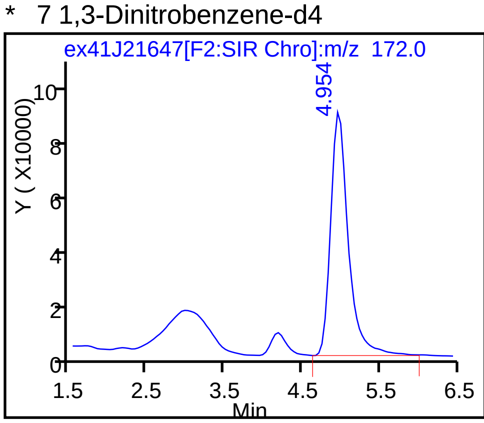
5 1,3,5-Trinitrobenzene (ND)



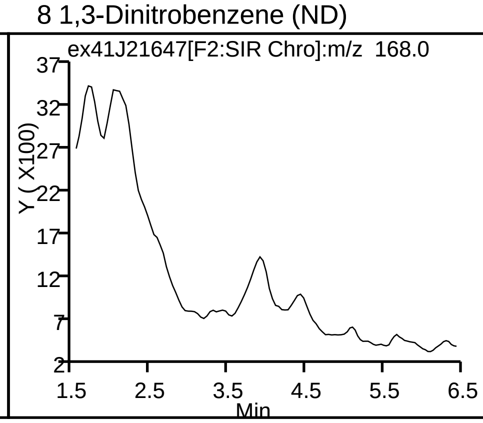
6 Tetryl (ND)



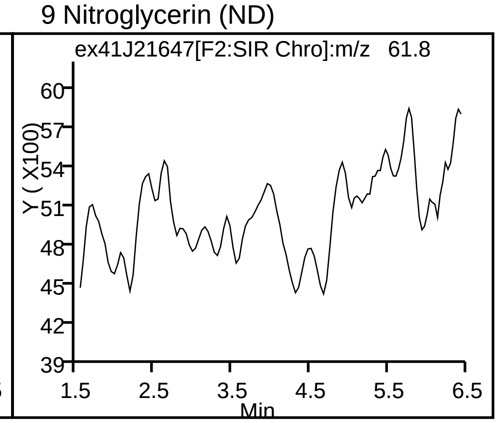
* 7 1,3-Dinitrobenzene-d4



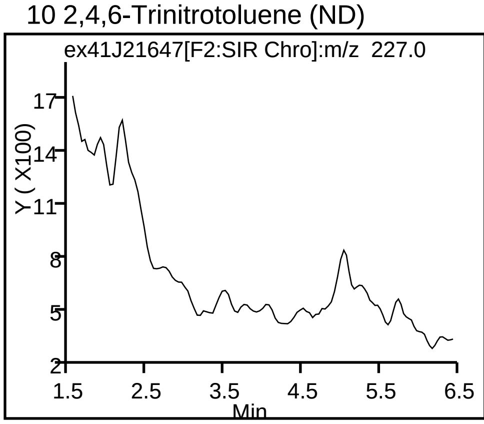
8 1,3-Dinitrobenzene (ND)



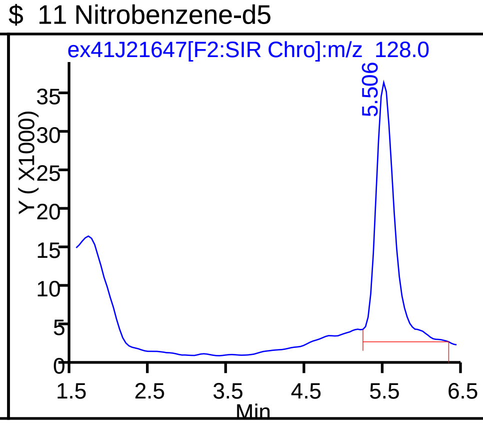
9 Nitroglycerin (ND)



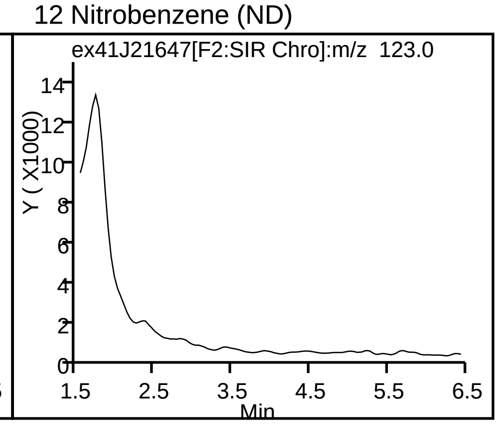
10 2,4,6-Trinitrotoluene (ND)



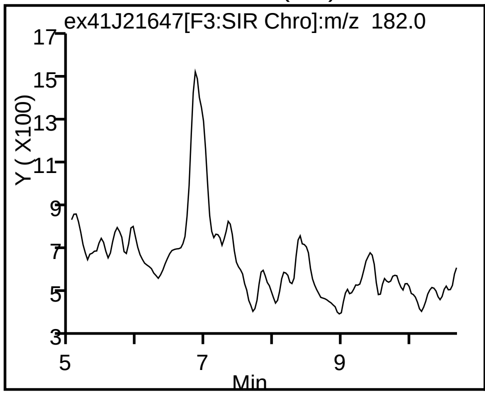
$ 11 Nitrobenzene-d5



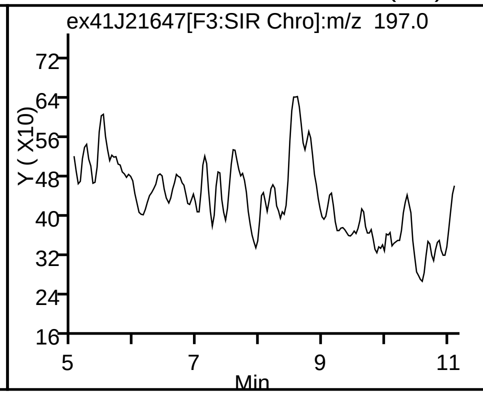
12 Nitrobenzene (ND)



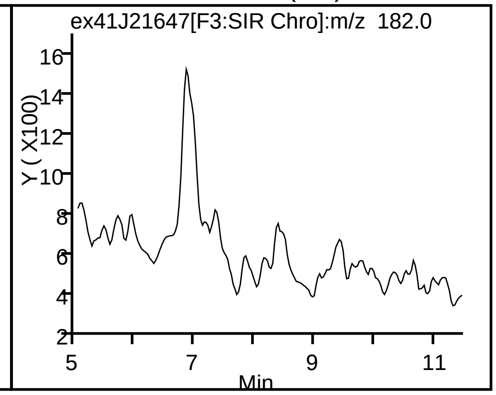
13 3,4-Dinitrotoluene (ND)



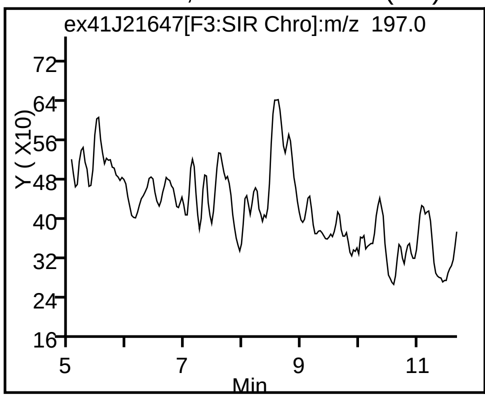
14 4-Amino-2,6-dinitrotoluene (ND)



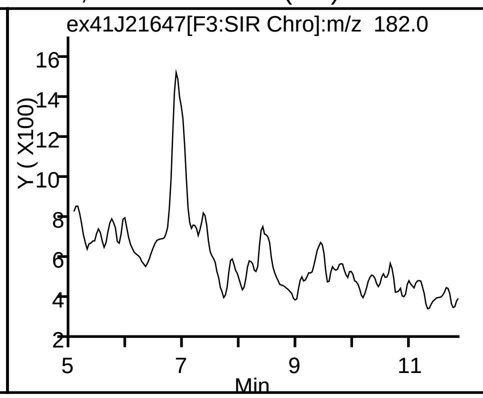
15 2,3-Dinitrotoluene (ND)



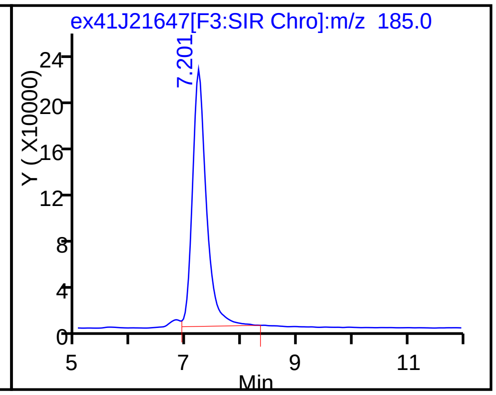
16 2-Amino-4,6-dinitrotoluene (ND)



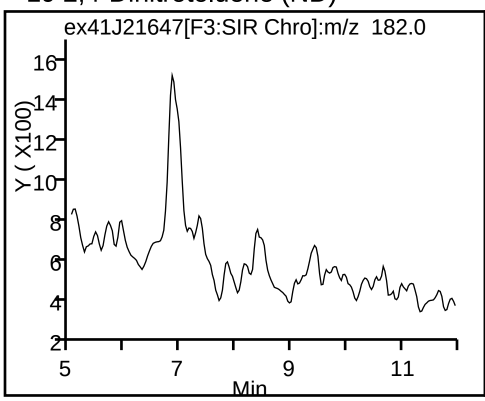
17 2,6-Dinitrotoluene (ND)



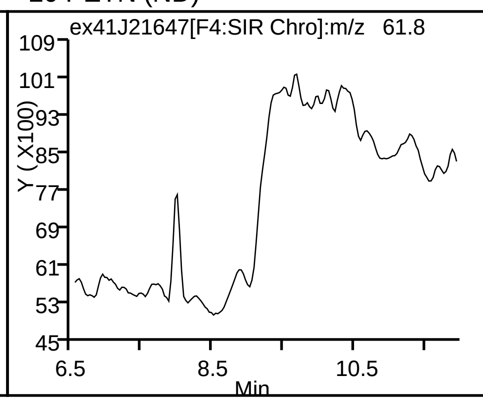
* 18 2,4-dinitrotoluene-d3



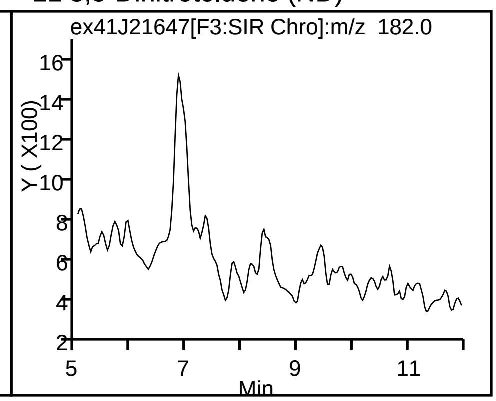
19 2,4-Dinitrotoluene (ND)



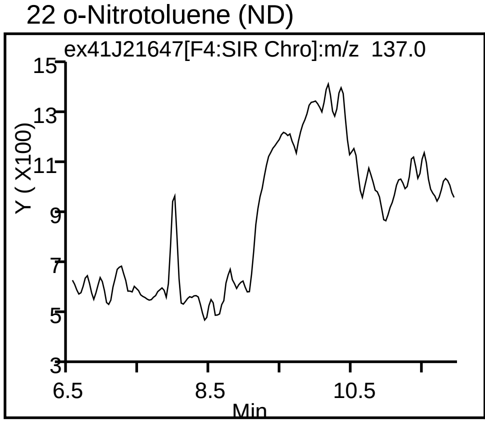
20 PETN (ND)



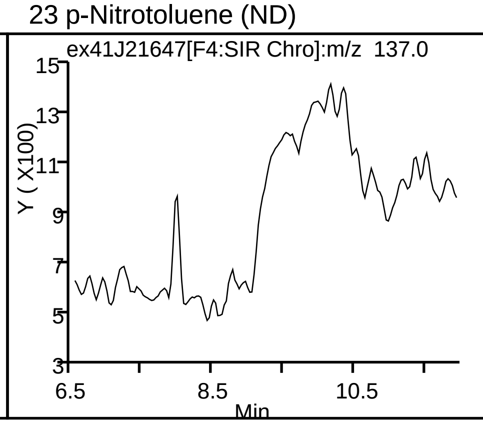
21 3,5-Dinitrotoluene (ND)



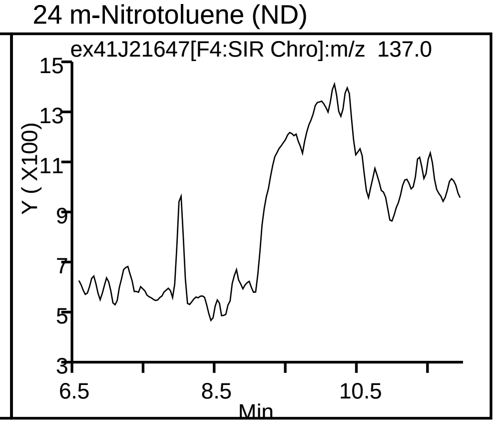
22 o-Nitrotoluene (ND)



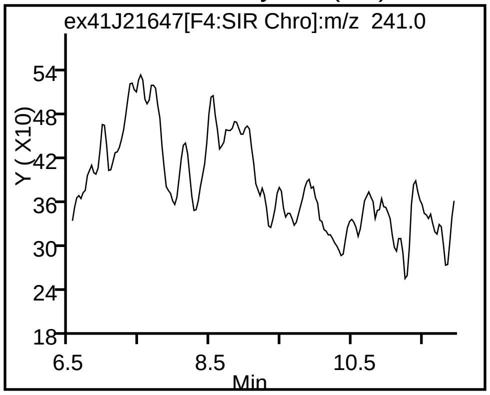
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG20 SB090   Lab Sample ID: 280-21683-5

Matrix: Solid   Lab File ID: ex41J21184.d

Analysis Method: 8321B   Date Collected: 10/13/2011 15:55

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:15

Sample wt/vol: 10.06(g)   Date Analyzed: 10/25/2011 20:36

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92964   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U Q	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21184.d		
Lims ID:	280-21683-B-5-B	Client ID:	SB090
Inject. Date:	25-Oct-2011 20:36:48	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-5-B 280-0002644-179		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	48
Lims Batch ID:	92964	Lims Sample ID:	179
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:06	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		791181	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2725826	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1701051	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.068							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.540	-0.034	1.111	630192	75.0			
12 Nitrobenzene										1
2	123.0		5.674							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							
15 2,3-Dinitrotoluene										1
3	182.0		6.563							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.745							
17	2,6-Dinitrotoluene									1
3	182.0		6.897							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.262	-0.061		5594194	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.322							
20	PETN									1
4	61.8		7.828							
21	3,5-Dinitrotoluene									1
3	182.0		7.960							
22	o-Nitrotoluene									1
4	137.0		8.345							
23	p-Nitrotoluene									1
4	137.0		8.891							
24	m-Nitrotoluene									
4	137.0		9.559							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.440							

QC Flag Legend

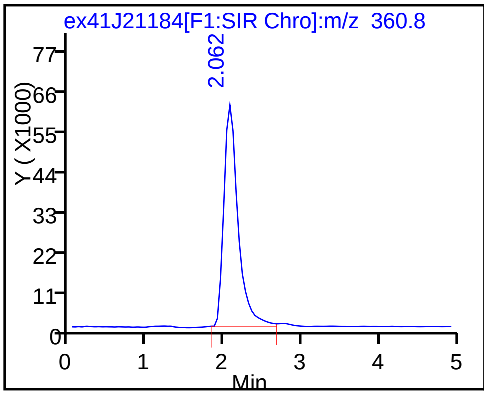
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 09:44:11 Chrom Revision: 1.2 13-Jul-2011 10:43:06

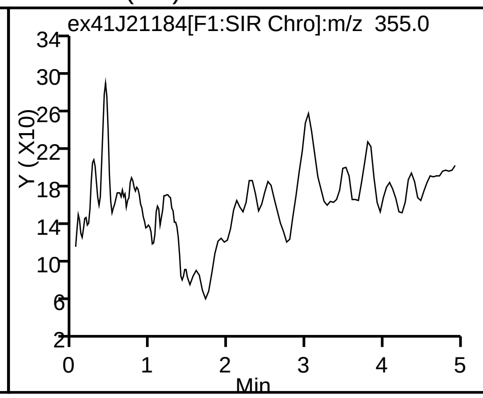
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21184.d

Injection Date:	25-Oct-2011 20:36:48	Limit Group:	LC - 8321A Expl
Client ID:	SB090	Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	179
Operator ID:		Injection Vol:	40.00 ul

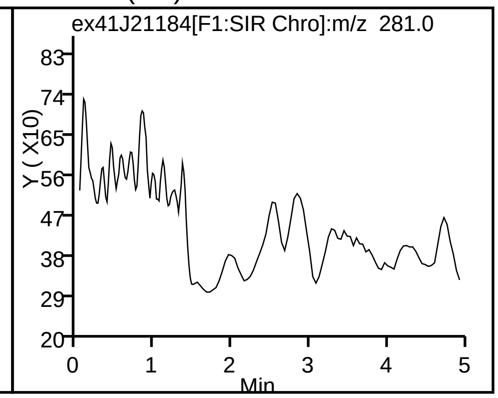
* 1 HMX-13C4



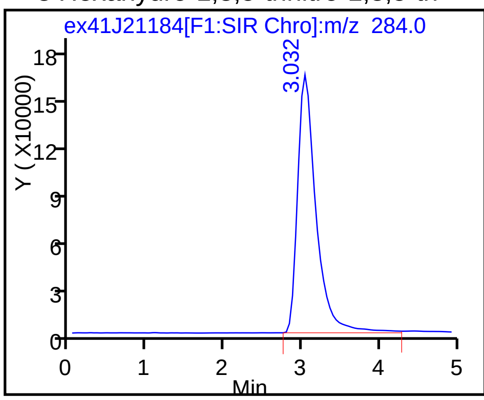
2 HMX (ND)



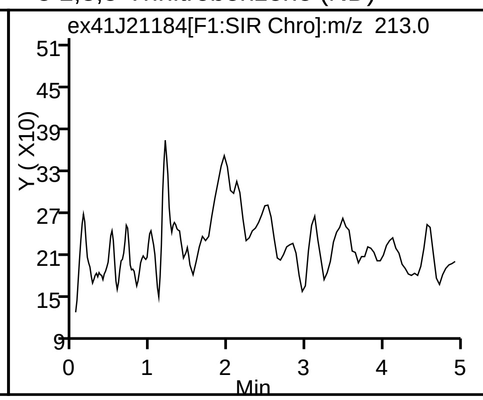
4 RDX (ND)



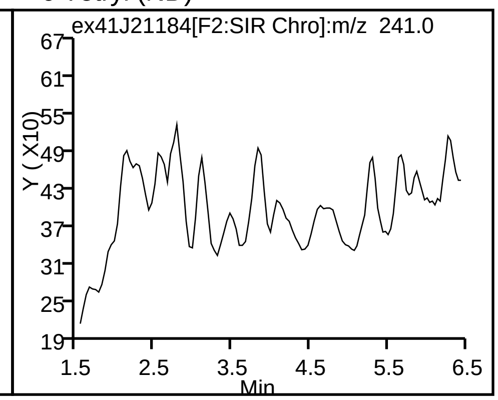
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



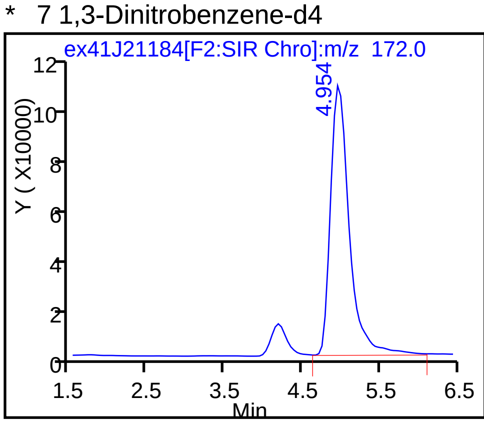
5 1,3,5-Trinitrobenzene (ND)



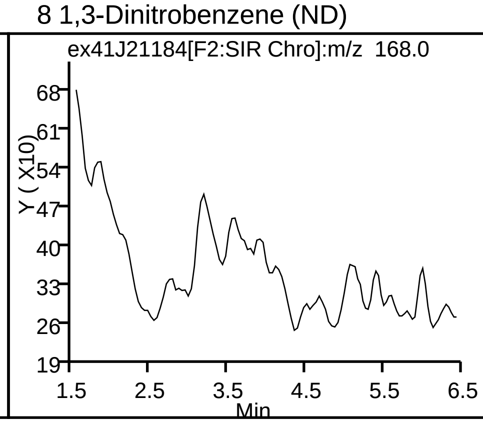
6 Tetryl (ND)



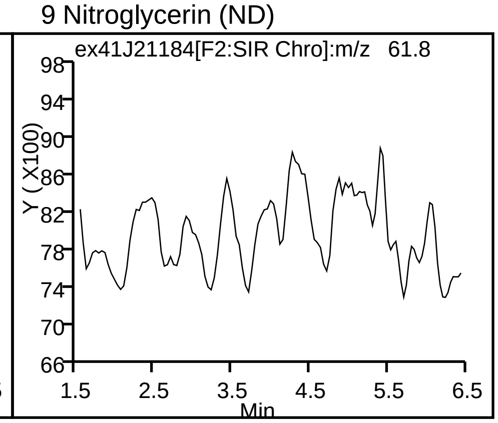
* 7 1,3-Dinitrobenzene-d4



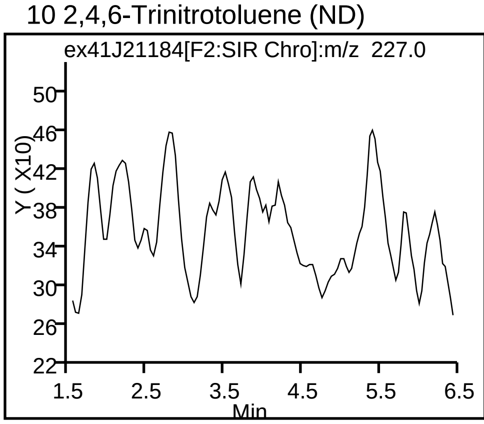
8 1,3-Dinitrobenzene (ND)



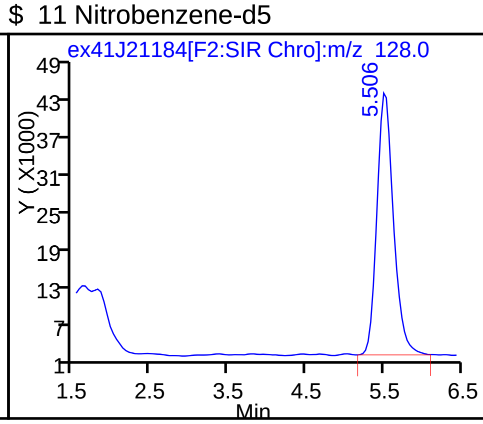
9 Nitroglycerin (ND)



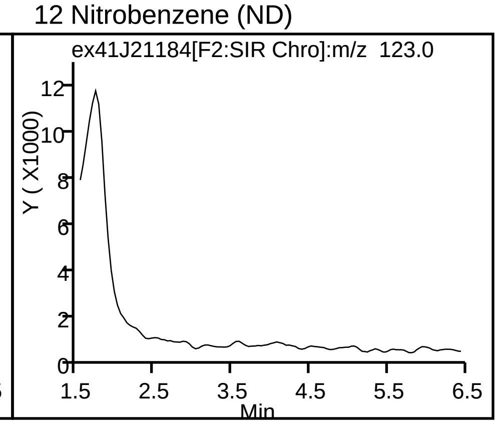
10 2,4,6-Trinitrotoluene (ND)



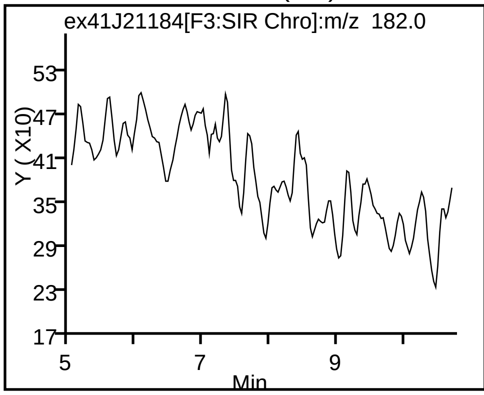
$ 11 Nitrobenzene-d5



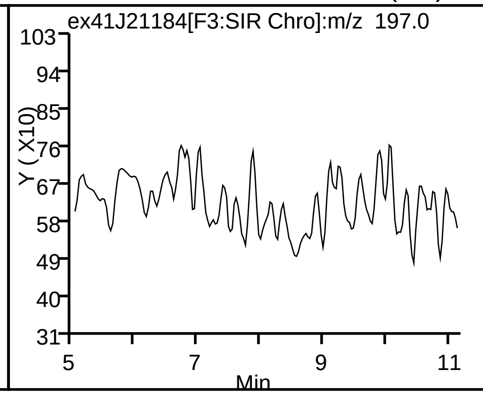
12 Nitrobenzene (ND)



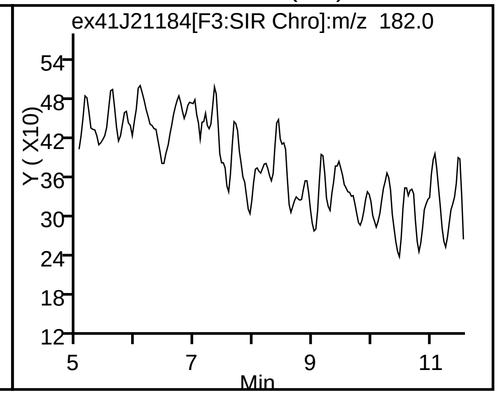
13 3,4-Dinitrotoluene (ND)



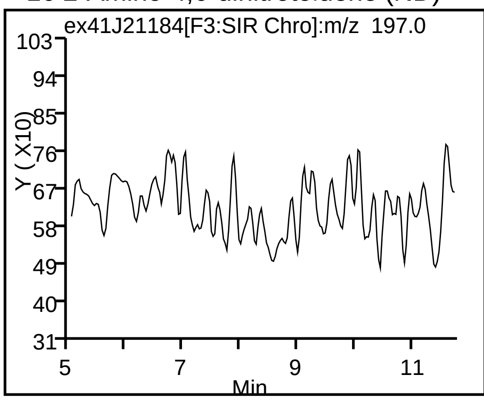
14 4-Amino-2,6-dinitrotoluene (ND)



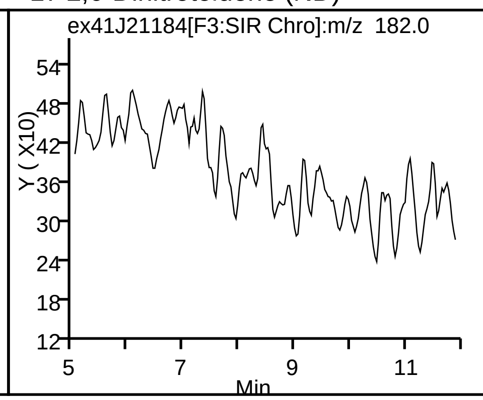
15 2,3-Dinitrotoluene (ND)



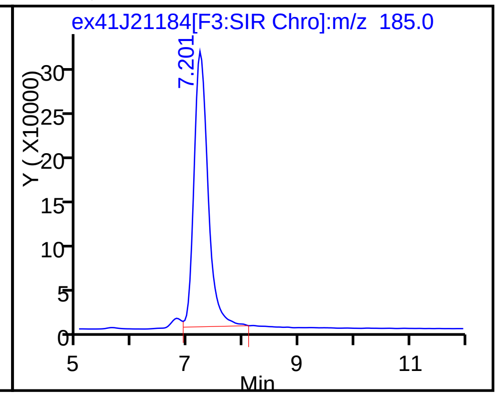
16 2-Amino-4,6-dinitrotoluene (ND)



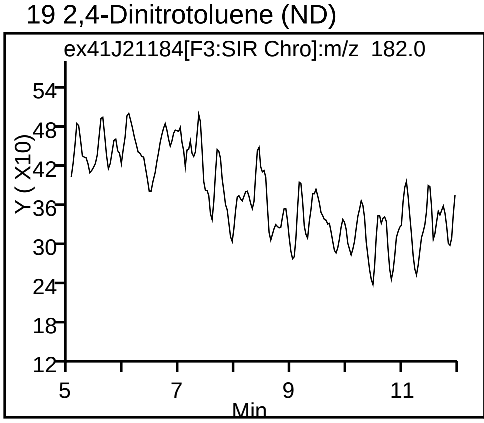
17 2,6-Dinitrotoluene (ND)



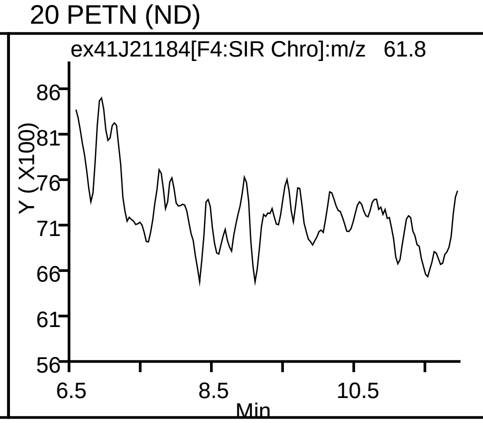
* 18 2,4-dinitrotoluene-d3



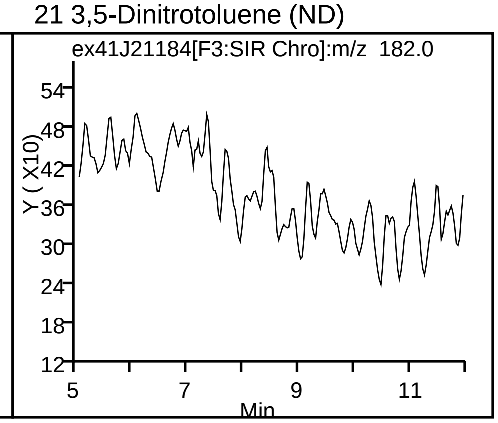
19 2,4-Dinitrotoluene (ND)



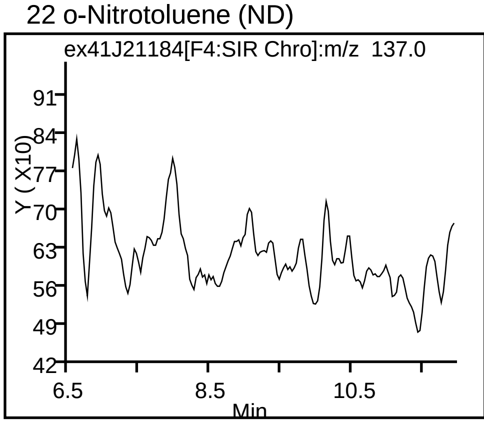
20 PETN (ND)



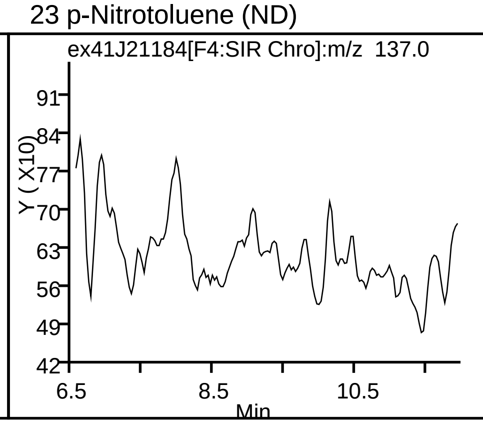
21 3,5-Dinitrotoluene (ND)



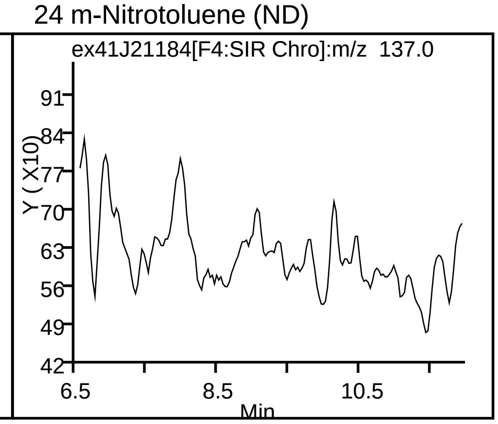
22 o-Nitrotoluene (ND)



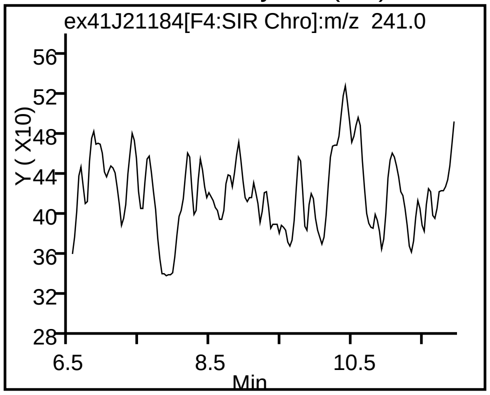
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG20 SB091   Lab Sample ID: 280-21683-6

Matrix: Solid   Lab File ID: ex41J21185.d

Analysis Method: 8321B   Date Collected: 10/13/2011 16:25

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:15

Sample wt/vol: 10.60(g)   Date Analyzed: 10/25/2011 20:50

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92964   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.094	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.024	U	0.094	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.094	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.094	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.094	0.024	0.010
2691-41-0	HMX	0.012	U	0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.094	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.094	0.012	0.0099
78-11-5	PETN	0.012	U Q	0.094	0.012	0.0049
121-82-4	RDX	0.012	U	0.094	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.094	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21185.d		
Lims ID:	280-21683-A-6-C	Client ID:	SB091
Inject. Date:	25-Oct-2011 20:50:22	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-6-C 280-0002644-180		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	49
Lims Batch ID:	92964	Lims Sample ID:	180
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:06	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		931888	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3129841	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1851049	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.068							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.540	-0.034	1.111	695603	76.0			
12 Nitrobenzene										1
2	123.0		5.674							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							
15 2,3-Dinitrotoluene										1
3	182.0		6.563							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.745							
17 2,6-Dinitrotoluene										1
3	182.0		6.897							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.262	-0.092		5401099	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.322							
20 PETN										1
4	61.8		7.828							
21 3,5-Dinitrotoluene										1
3	182.0		7.960							
22 o-Nitrotoluene										1
4	137.0		8.345							
23 p-Nitrotoluene										1
4	137.0		8.891							
24 m-Nitrotoluene										1
4	137.0		9.559							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.440							

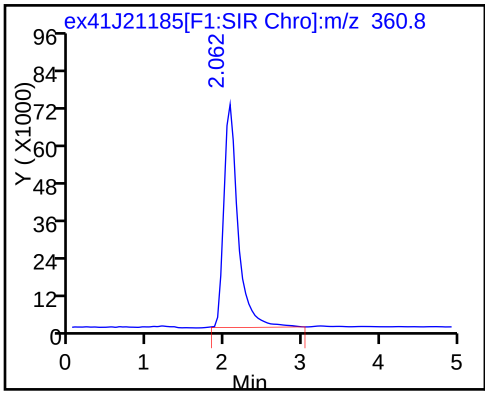
QC Flag Legend

Processing Flags
1 - Missing Peaks

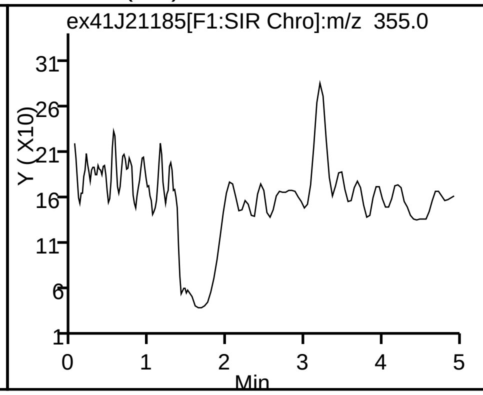
Report Date: 26-Oct-2011 09:44:11 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21185.d		
Injection Date:	25-Oct-2011 20:50:22	Limit Group:	LC - 8321A Expl
Client ID:	SB091	Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	180
Operator ID:		Injection Vol:	40.00 ul

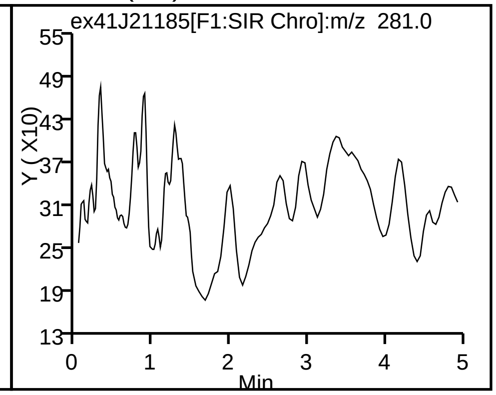
* 1 HMX-13C4



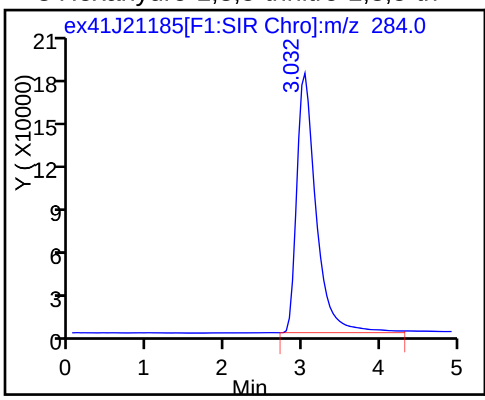
2 HMX (ND)



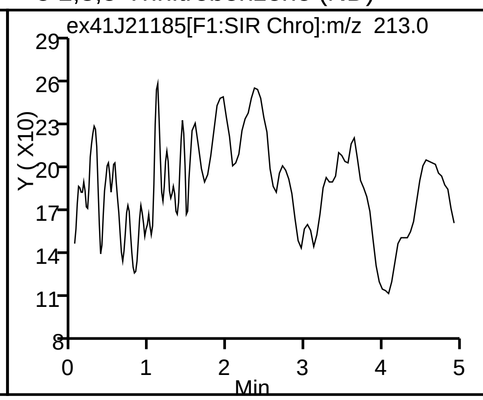
4 RDX (ND)



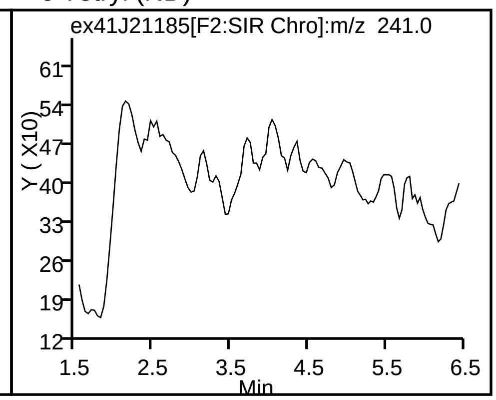
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



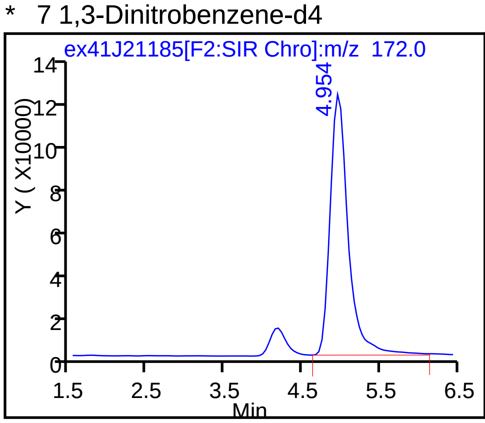
5 1,3,5-Trinitrobenzene (ND)



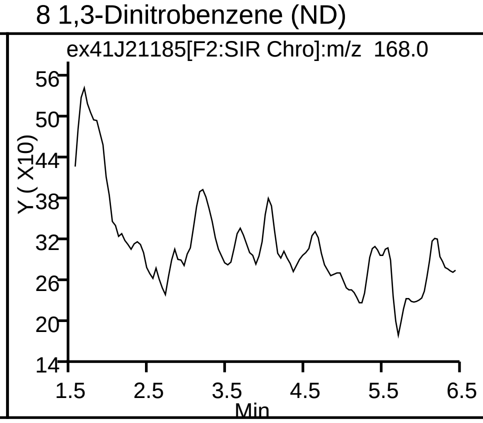
6 Tetryl (ND)



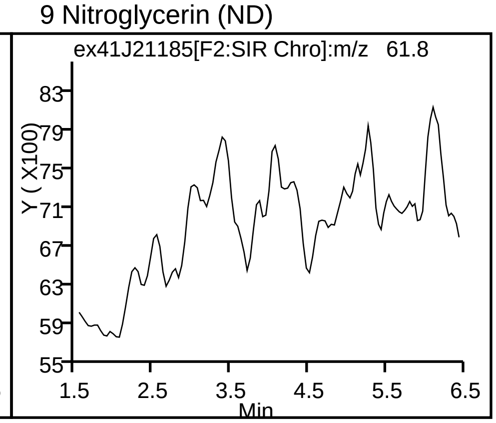
* 7 1,3-Dinitrobenzene-d4



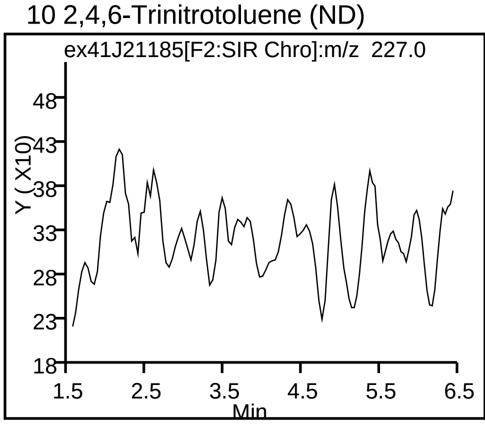
8 1,3-Dinitrobenzene (ND)



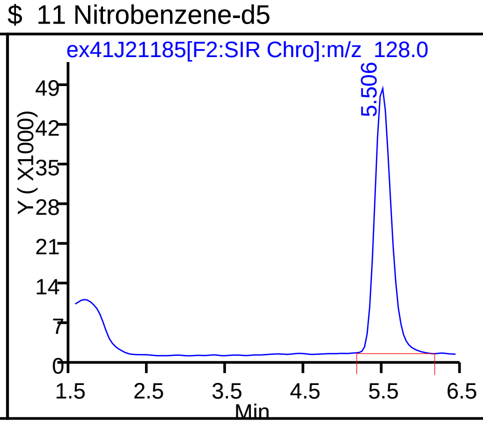
9 Nitroglycerin (ND)



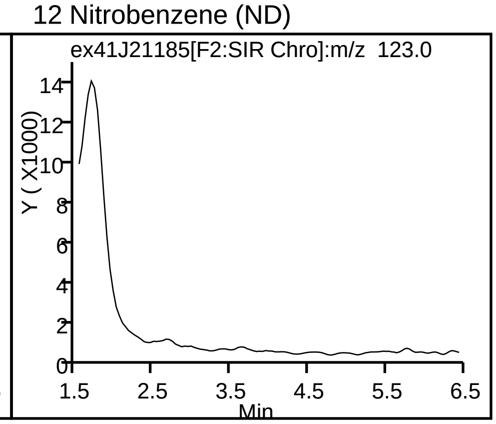
10 2,4,6-Trinitrotoluene (ND)



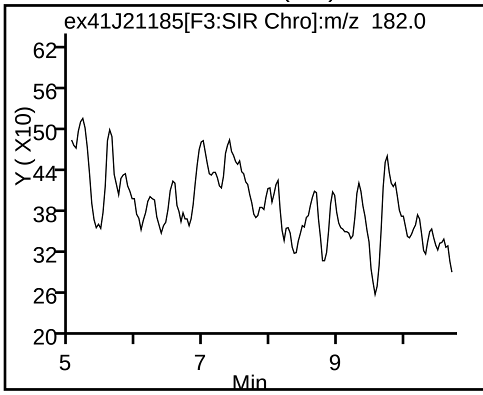
$ 11 Nitrobenzene-d5



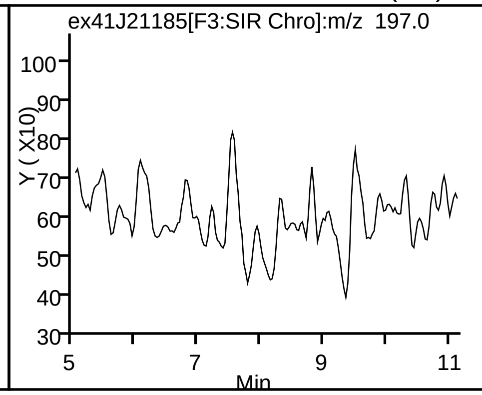
12 Nitrobenzene (ND)



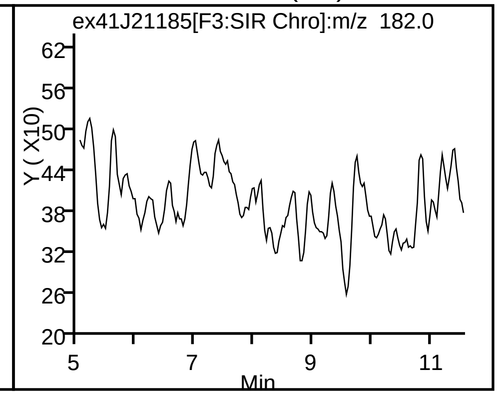
13 3,4-Dinitrotoluene (ND)



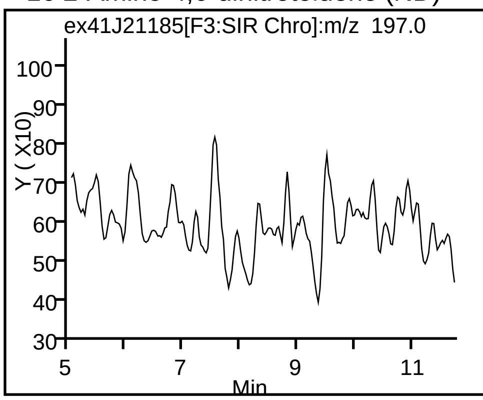
14 4-Amino-2,6-dinitrotoluene (ND)



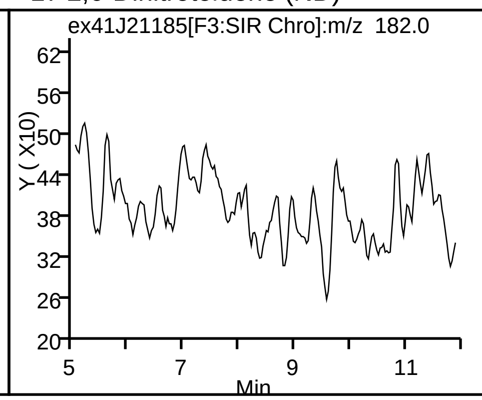
15 2,3-Dinitrotoluene (ND)



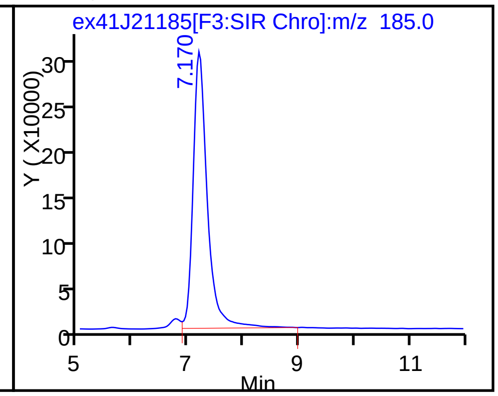
16 2-Amino-4,6-dinitrotoluene (ND)



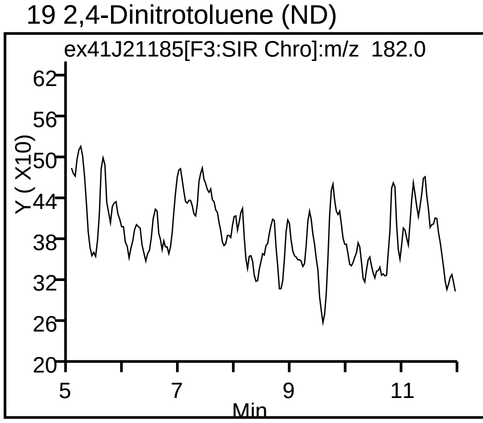
17 2,6-Dinitrotoluene (ND)



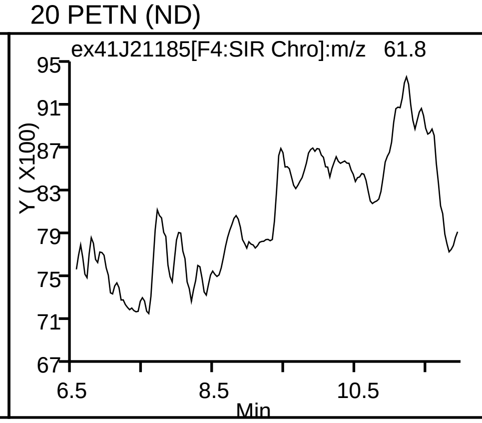
* 18 2,4-dinitrotoluene-d3



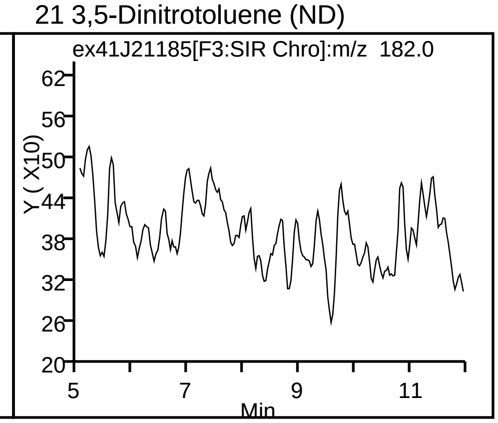
19 2,4-Dinitrotoluene (ND)



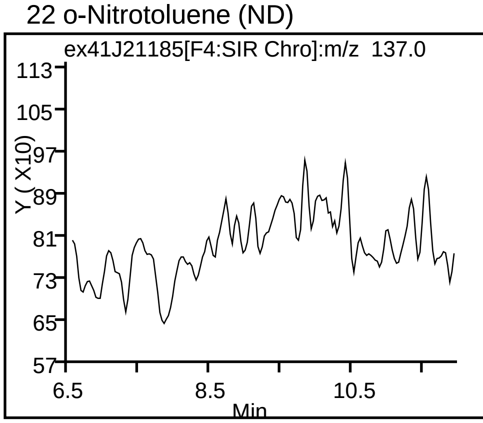
20 PETN (ND)



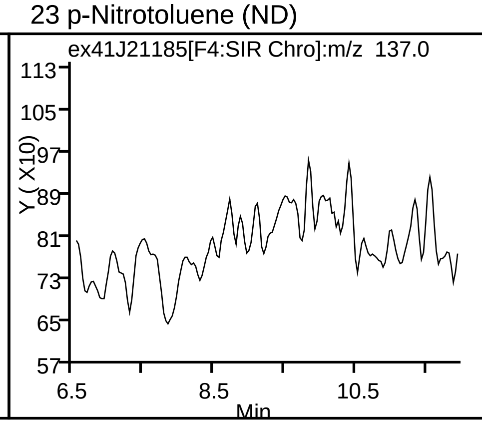
21 3,5-Dinitrotoluene (ND)



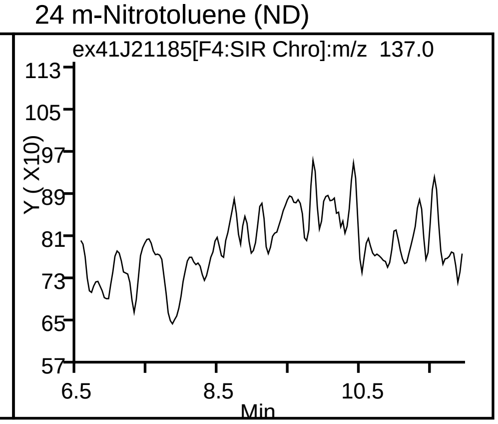
22 o-Nitrotoluene (ND)



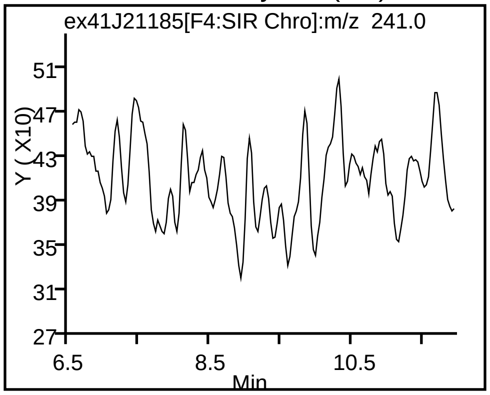
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name:	TestAmerica Denver	Job No.:	280-21683-1
SDG No.:			
Client Sample ID:	MG22 SB094	Lab Sample ID:	280-21683-7
Matrix:	Solid	Lab File ID:	ex41J21186.d
Analysis Method:	8321B	Date Collected:	10/13/2011 16:46
Extraction Method:	8330B	Date Extracted:	10/20/2011 19:15
Sample wt/vol:	10.47(g)	Date Analyzed:	10/25/2011 21:04
Con. Extract Vol.:	40(mL)	Dilution Factor:	1
Injection Volume:	40(uL)	GC Column:	IonPac ID: 2(mm)
% Moisture:		GPC Cleanup:(Y/N)	N
Analysis Batch No.:	92964	Units:	mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.096	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U Q	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21186.d		
Lims ID:	280-21683-A-7-C	Client ID:	SB094
Inject. Date:	25-Oct-2011 21:04:12	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-7-C 280-0002644-181		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	50
Lims Batch ID:	92964	Lims Sample ID:	181
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:06	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		889818	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3232212	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1827636	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.068							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.540	-0.034	1.111	676269	74.9			
12 Nitrobenzene										1
2	123.0		5.674							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							
15 2,3-Dinitrotoluene										1
3	182.0		6.563							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.745							
17 2,6-Dinitrotoluene										1
3	182.0		6.897							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.262	-0.092		5204177	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.322							
20 PETN										1
4	61.8		7.828							
21 3,5-Dinitrotoluene										1
3	182.0		7.960							
22 o-Nitrotoluene										1
4	137.0		8.345							
23 p-Nitrotoluene										1
4	137.0		8.891							
24 m-Nitrotoluene										1
4	137.0		9.559							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.440							

QC Flag Legend

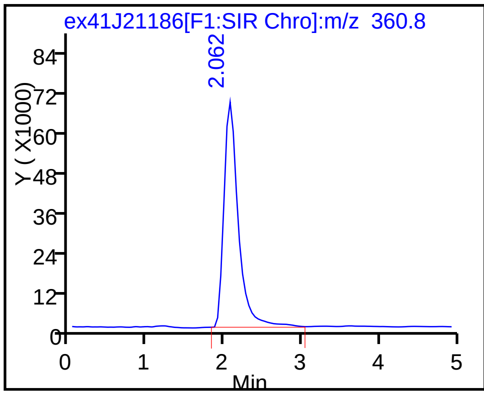
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 09:44:12 Chrom Revision: 1.2 13-Jul-2011 10:43:06

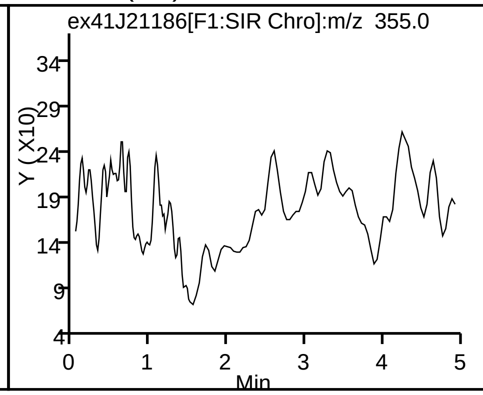
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21186.d

Injection Date:	25-Oct-2011 21:04:12	Limit Group:	LC - 8321A Expl
Client ID:	SB094	Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	181
Operator ID:		Injection Vol:	40.00 ul

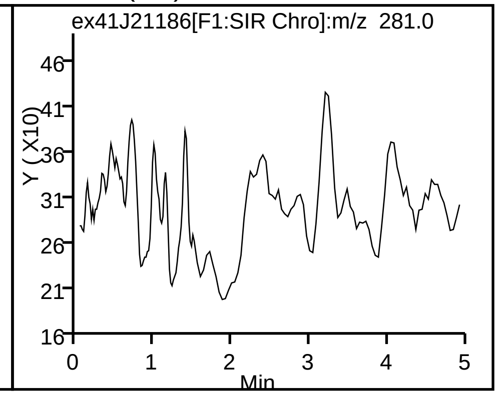
* 1 HMX-13C4



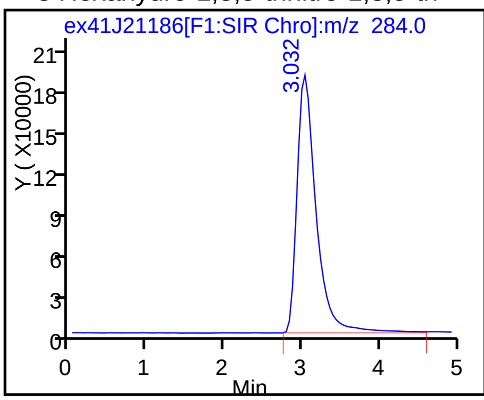
2 HMX (ND)



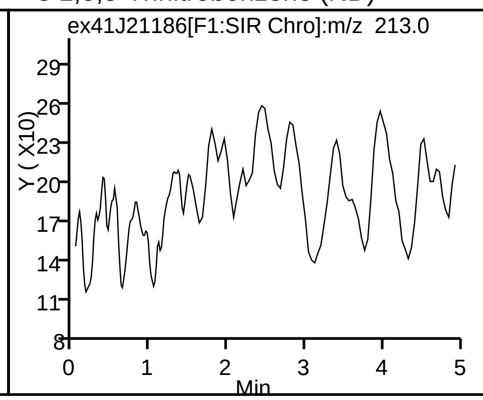
4 RDX (ND)



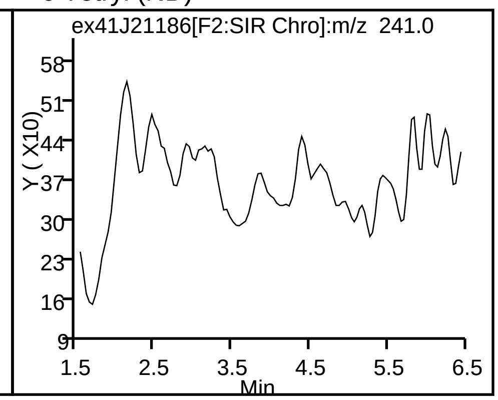
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



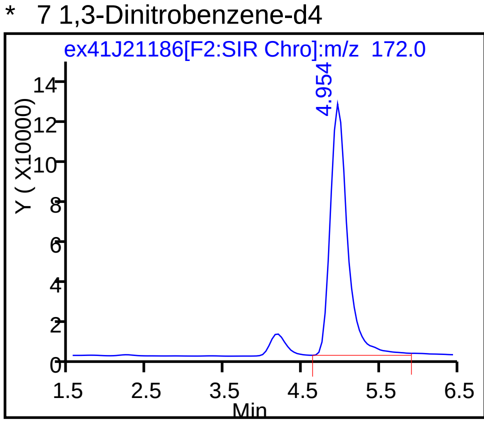
5 1,3,5-Trinitrobenzene (ND)



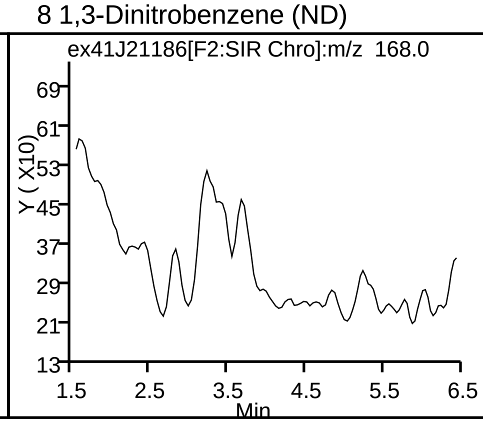
6 Tetryl (ND)



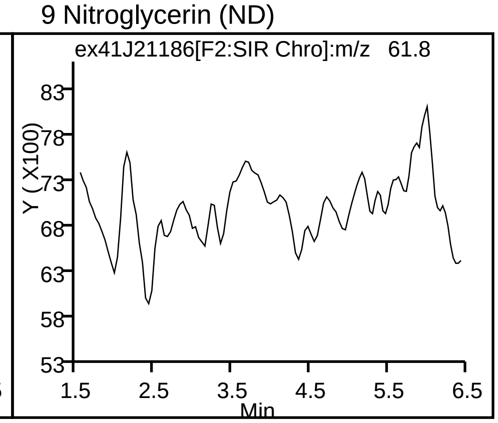
* 7 1,3-Dinitrobenzene-d4



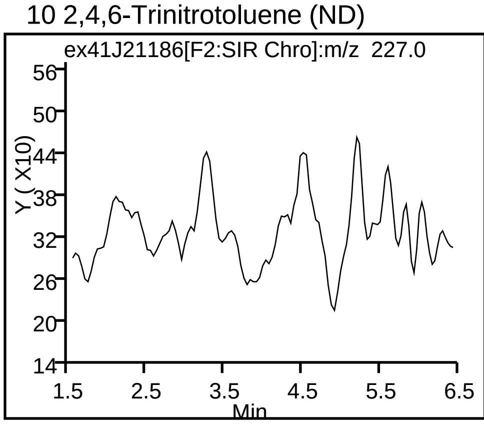
8 1,3-Dinitrobenzene (ND)



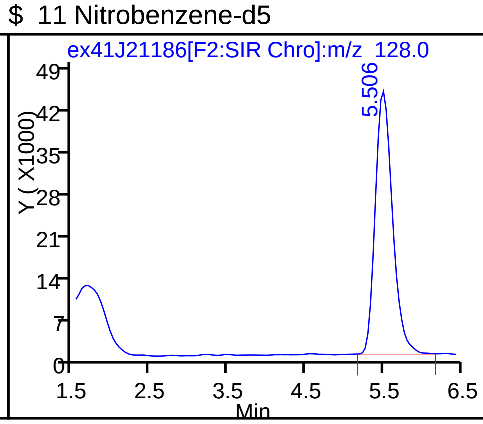
9 Nitroglycerin (ND)



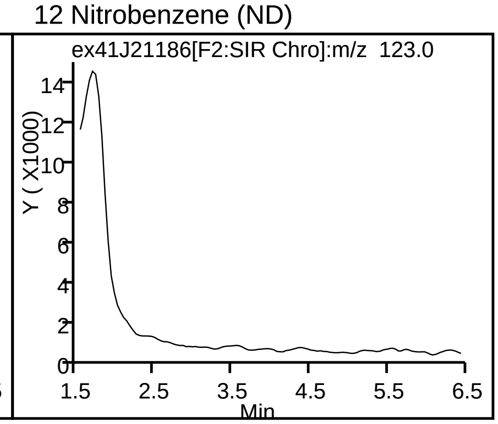
10 2,4,6-Trinitrotoluene (ND)



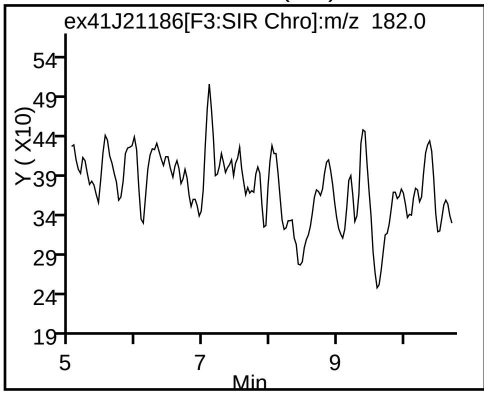
$ 11 Nitrobenzene-d5



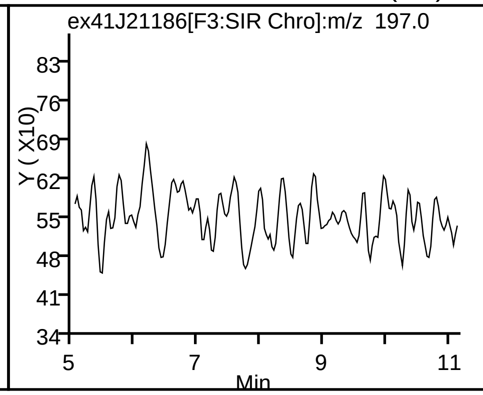
12 Nitrobenzene (ND)



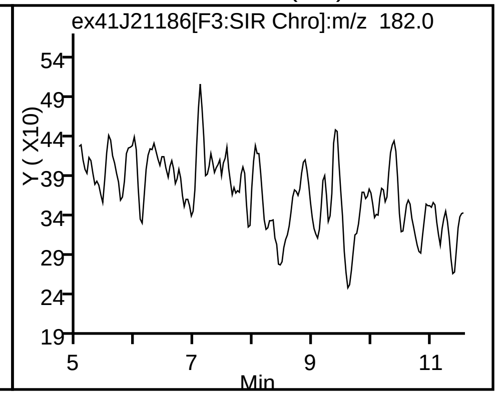
13 3,4-Dinitrotoluene (ND)



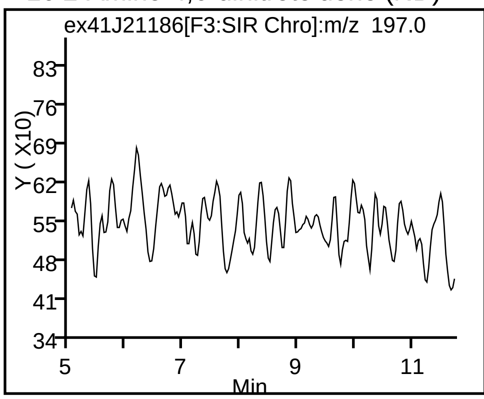
14 4-Amino-2,6-dinitrotoluene (ND)



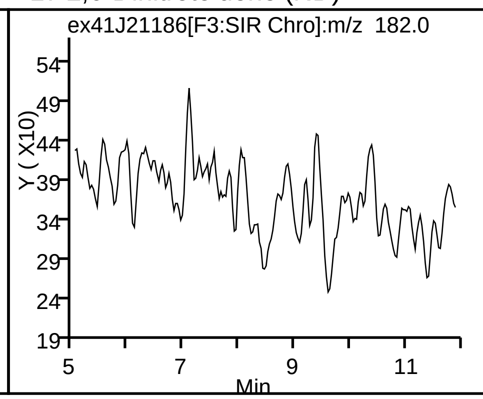
15 2,3-Dinitrotoluene (ND)



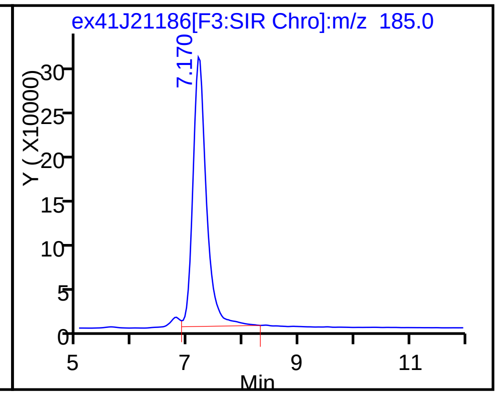
16 2-Amino-4,6-dinitrotoluene (ND)



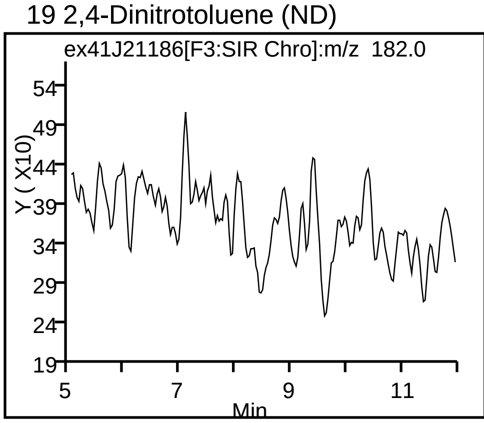
17 2,6-Dinitrotoluene (ND)



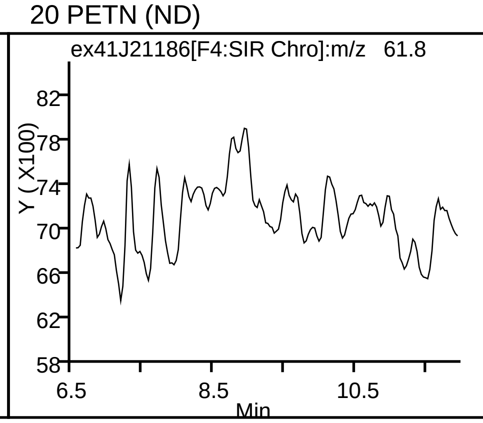
* 18 2,4-dinitrotoluene-d3



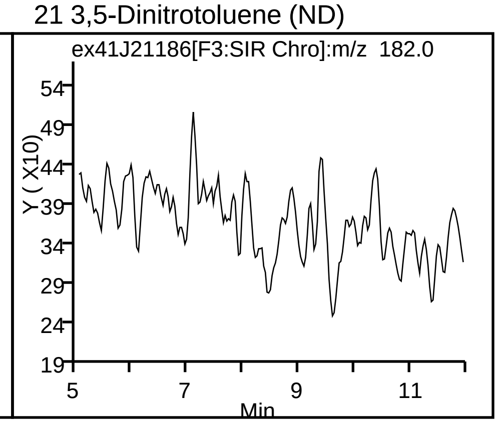
19 2,4-Dinitrotoluene (ND)



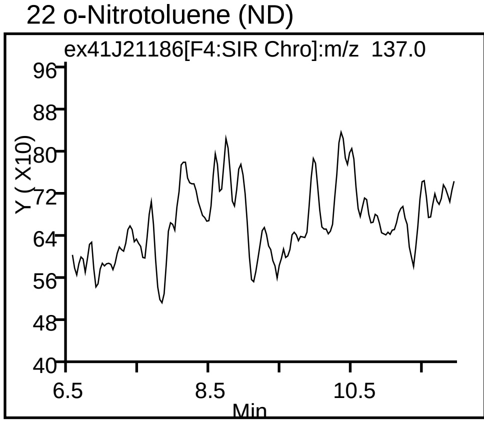
20 PETN (ND)



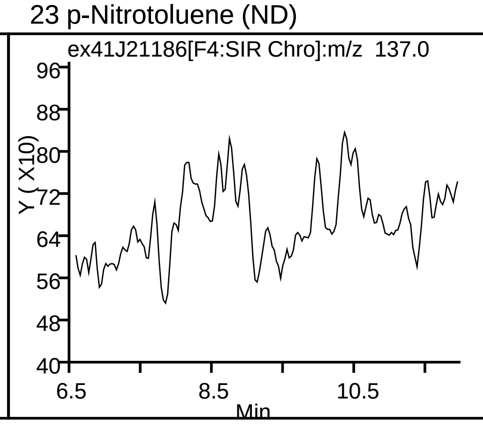
21 3,5-Dinitrotoluene (ND)



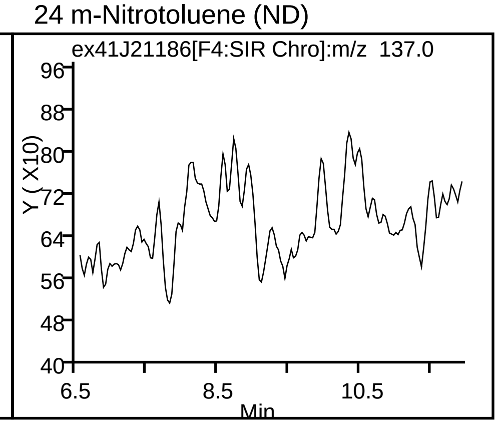
22 o-Nitrotoluene (ND)



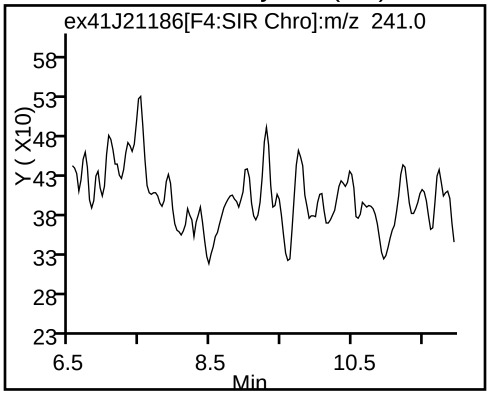
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG22 SB095 | Lab Sample ID: 280-21683-8

Matrix: Solid | Lab File ID: ex41J21187.d

Analysis Method: 8321B | Date Collected: 10/13/2011 16:57

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:15

Sample wt/vol: 10.63(g) | Date Analyzed: 10/25/2011 21:17

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92964 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.094	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.024	U	0.094	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.094	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.094	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.094	0.024	0.010
2691-41-0	HMX	0.012	U	0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.094	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.094	0.012	0.0099
78-11-5	PETN	0.012	U Q	0.094	0.012	0.0048
121-82-4	RDX	0.012	U	0.094	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.094	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21187.d		
Lims ID:	280-21683-A-8-C	Client ID:	SB095
Inject. Date:	25-Oct-2011 21:17:46	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-8-C 280-0002644-182		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	51
Lims Batch ID:	92964	Lims Sample ID:	182
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:06	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 26-Oct-2011 06:14:30

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		833406	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2981432	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1747254	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.068							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.540	-0.034	1.111	701962	81.3			
12 Nitrobenzene										1
2	123.0		5.674							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.563							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.745							
17 2,6-Dinitrotoluene										1
3	182.0		6.897							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.262	-0.092		5454735	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.322							
20 PETN										
4	61.8		7.828							
21 3,5-Dinitrotoluene										1
3	182.0		7.960							
22 o-Nitrotoluene										
4	137.0		8.345							
23 p-Nitrotoluene										
4	137.0		8.891							
24 m-Nitrotoluene										
4	137.0		9.559							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.440							

QC Flag Legend

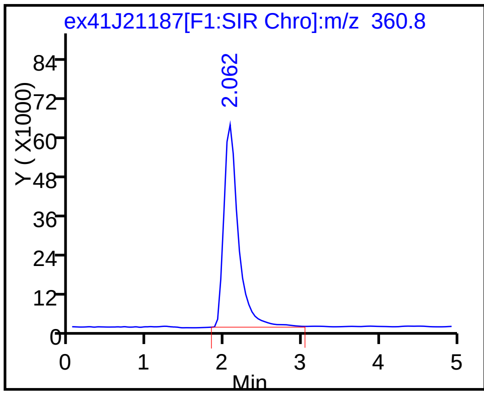
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 09:44:13 Chrom Revision: 1.2 13-Jul-2011 10:43:06

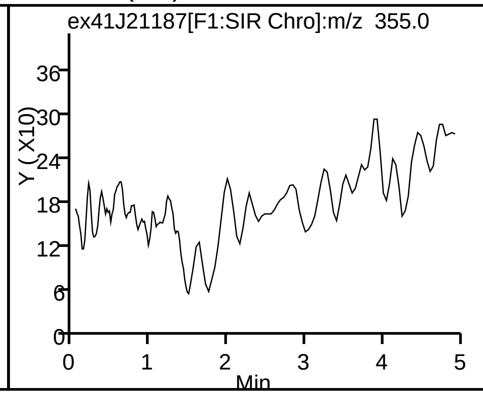
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21187.d

Injection Date:	25-Oct-2011 21:17:46	Limit Group:	LC - 8321A Expl
Client ID:	SB095	Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	182
Operator ID:		Injection Vol:	40.00 ul

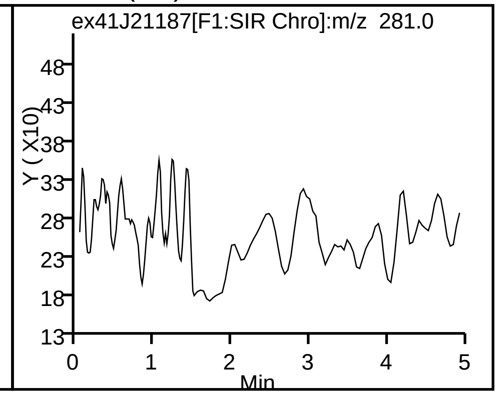
* 1 HMX-13C4



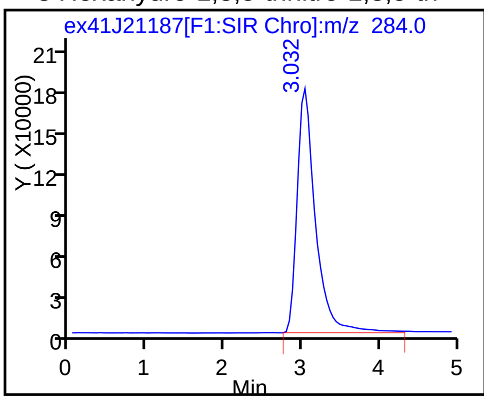
2 HMX (ND)



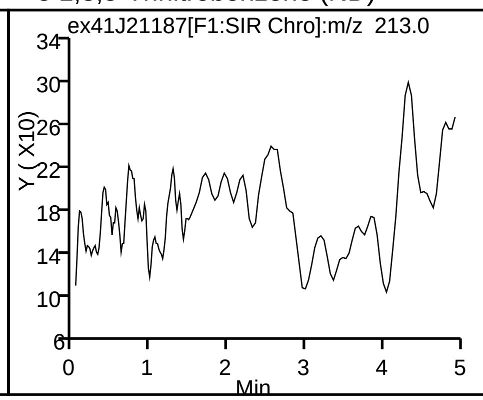
4 RDX (ND)



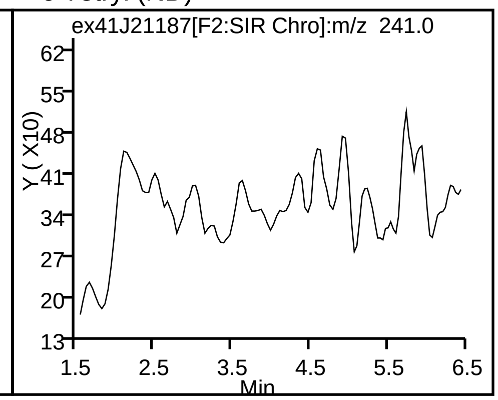
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



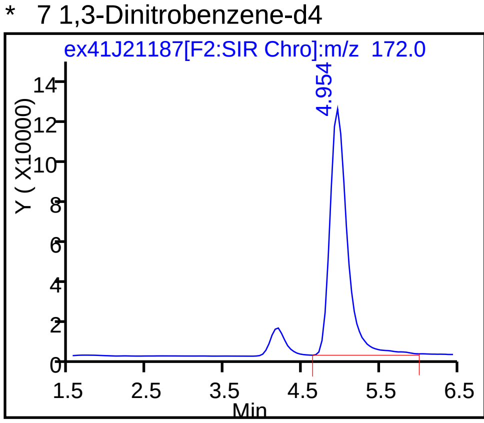
5 1,3,5-Trinitrobenzene (ND)



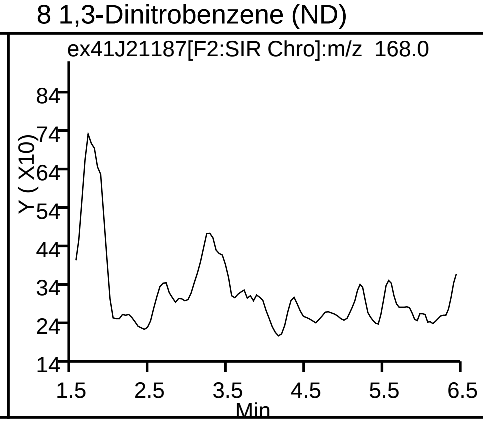
6 Tetryl (ND)



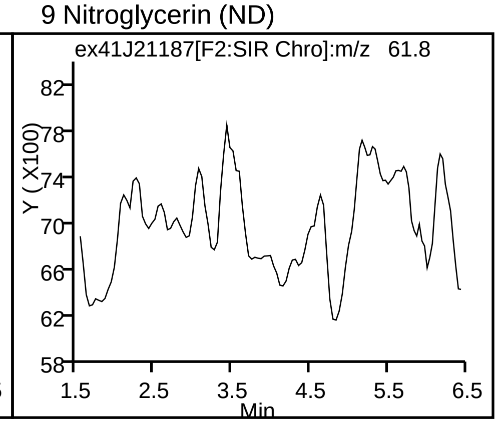
* 7 1,3-Dinitrobenzene-d4



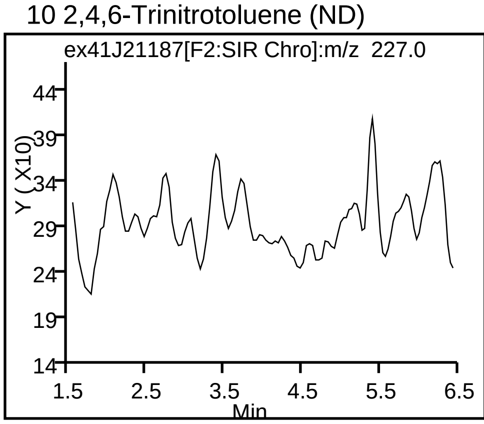
8 1,3-Dinitrobenzene (ND)



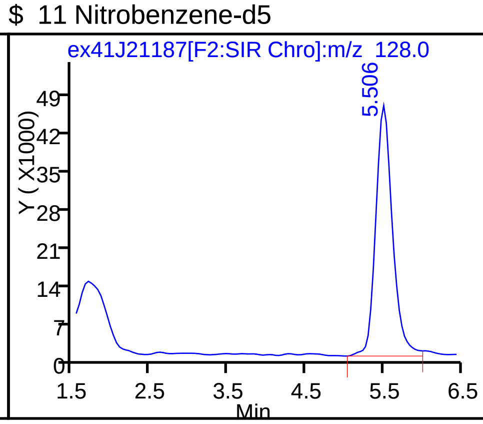
9 Nitroglycerin (ND)



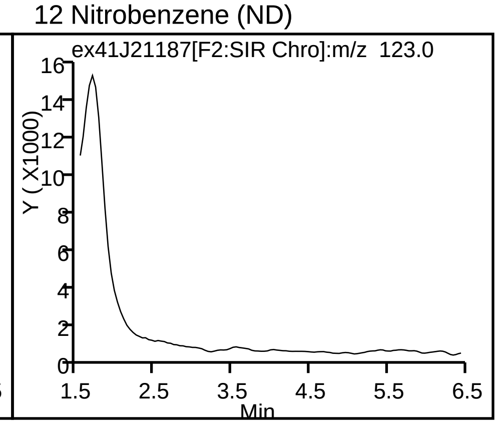
10 2,4,6-Trinitrotoluene (ND)



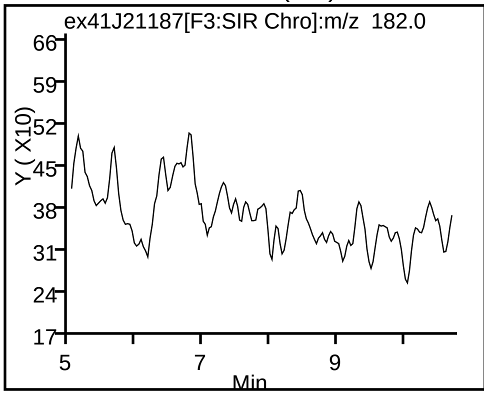
$ 11 Nitrobenzene-d5



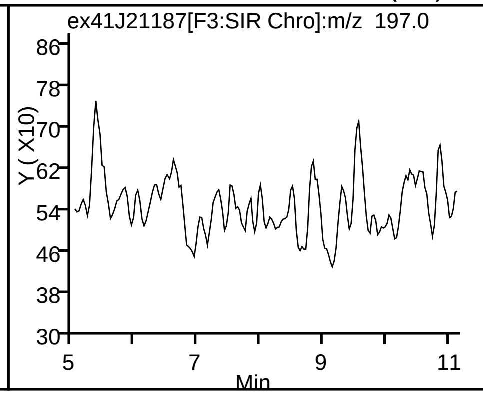
12 Nitrobenzene (ND)



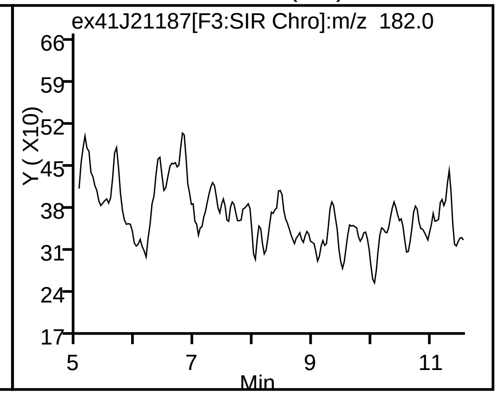
13 3,4-Dinitrotoluene (ND)



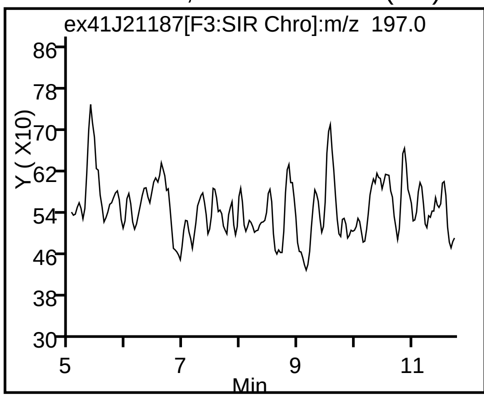
14 4-Amino-2,6-dinitrotoluene (ND)



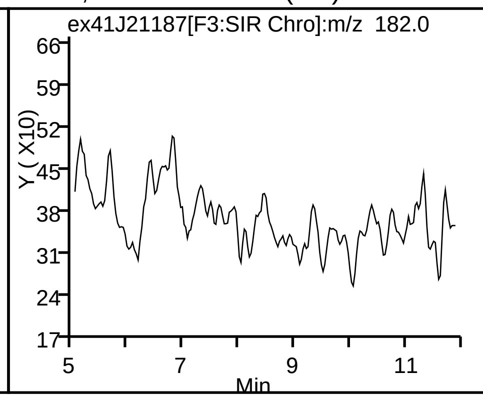
15 2,3-Dinitrotoluene (ND)



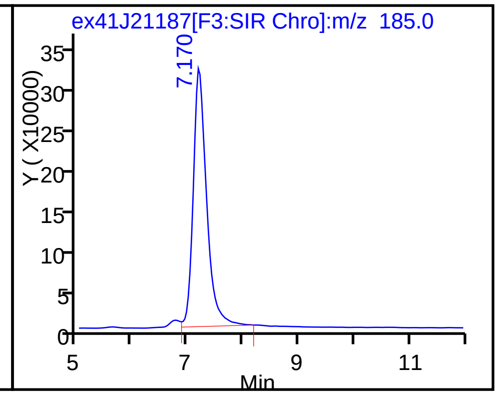
16 2-Amino-4,6-dinitrotoluene (ND)



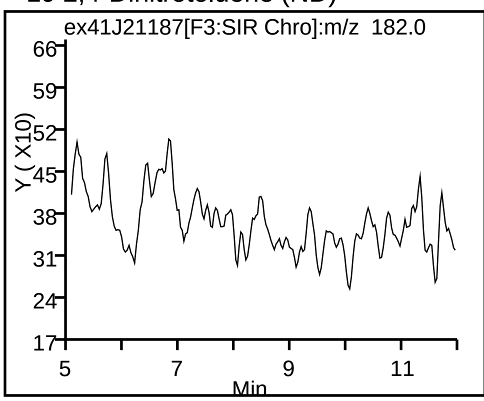
17 2,6-Dinitrotoluene (ND)



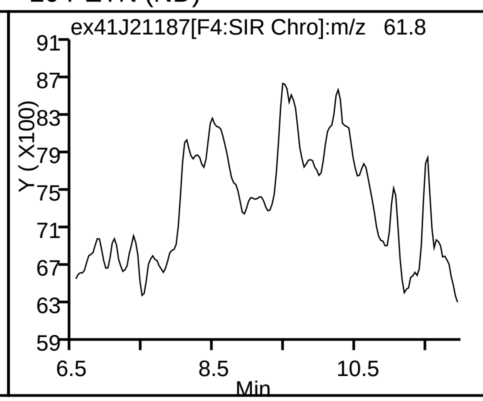
* 18 2,4-dinitrotoluene-d3



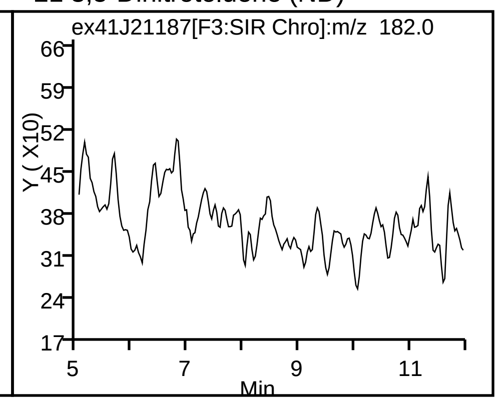
19 2,4-Dinitrotoluene (ND)



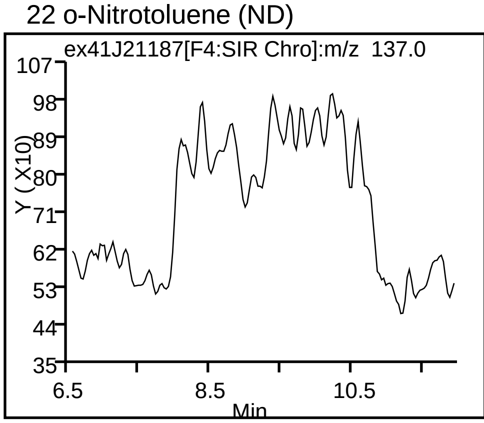
20 PETN (ND)



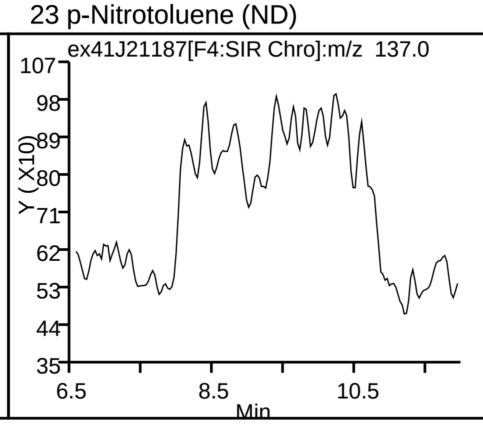
21 3,5-Dinitrotoluene (ND)



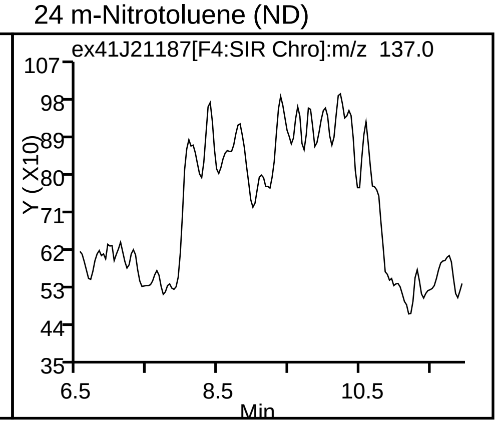
22 o-Nitrotoluene (ND)



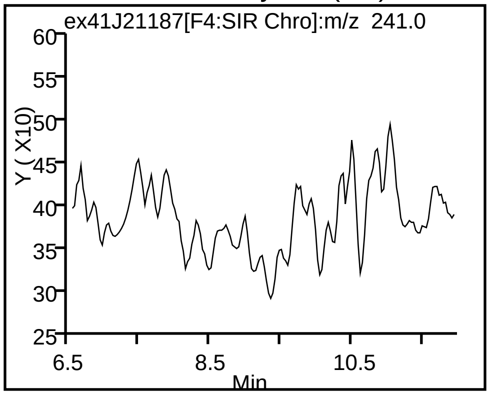
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG22 SB096 | Lab Sample ID: 280-21683-9

Matrix: Solid | Lab File ID: ex41J21198.d

Analysis Method: 8321B | Date Collected: 10/13/2011 16:46

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:15

Sample wt/vol: 10.11(g) | Date Analyzed: 10/26/2011 07:12

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92964 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U Q	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21198.d		
Lims ID:	280-21683-A-9-C	Client ID:	SB096
Inject. Date:	26-Oct-2011 07:12:27	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-9-C 280-0002644-192		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	52
Lims Batch ID:	92964	Lims Sample ID:	192
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:20	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		981419	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3092127	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1732639	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	678981	79.3			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5220153	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										
4	137.0		8.254							
23 p-Nitrotoluene										
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

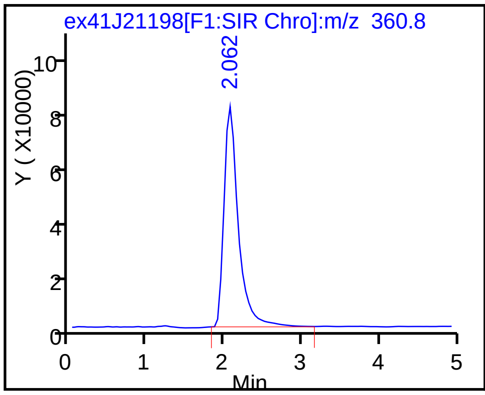
QC Flag Legend

Processing Flags
1 - Missing Peaks

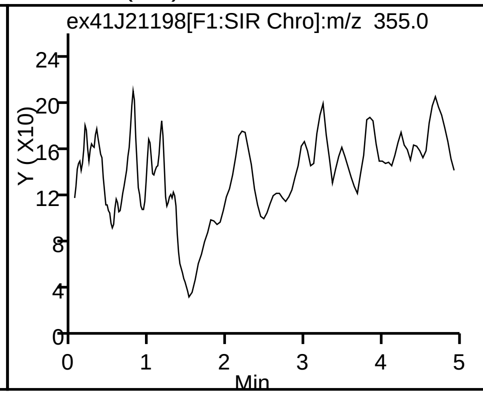
Report Date: 26-Oct-2011 09:44:21 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21198.d		
Injection Date:	26-Oct-2011 07:12:27	Limit Group:	LC - 8321A Expl
Client ID:	SB096	Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	192
Operator ID:		Injection Vol:	40.00 ul

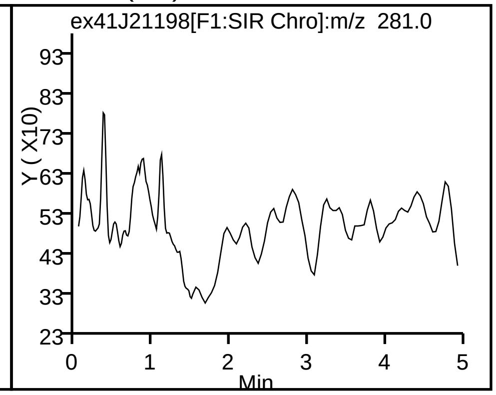
* 1 HMX-13C4



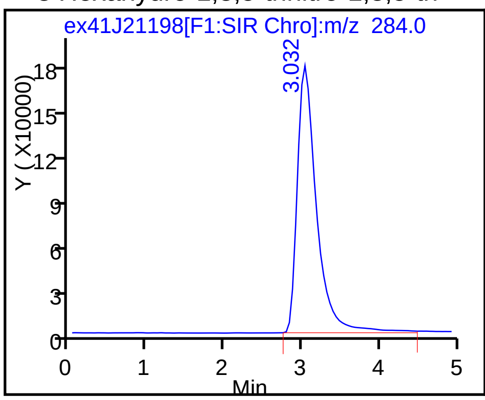
2 HMX (ND)



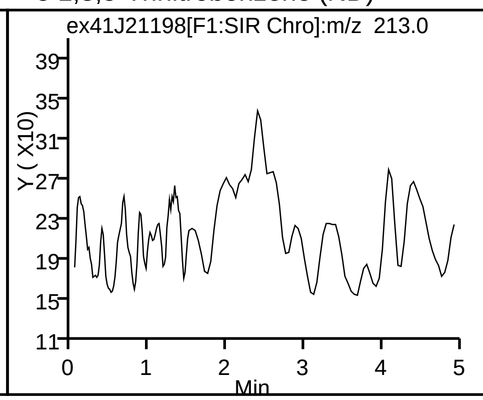
4 RDX (ND)



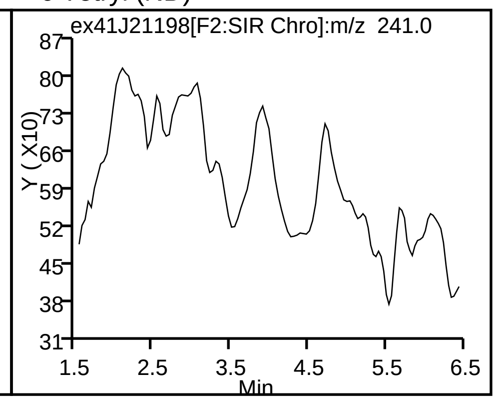
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



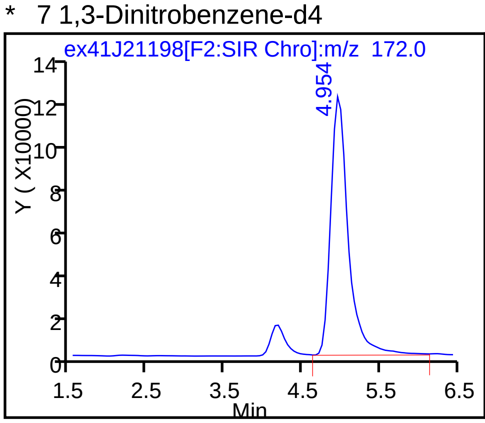
5 1,3,5-Trinitrobenzene (ND)



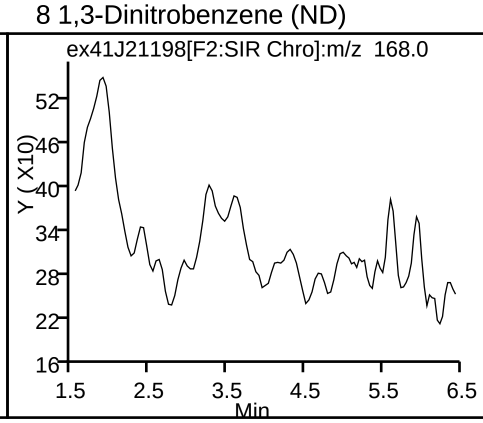
6 Tetryl (ND)



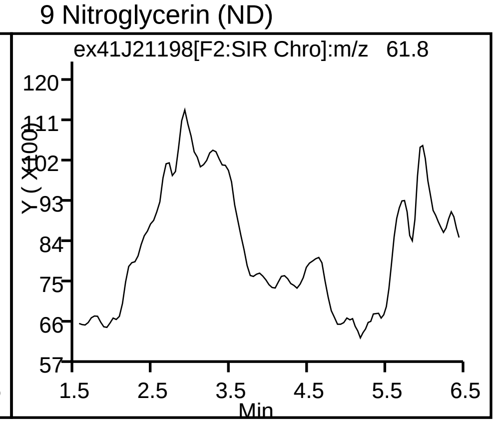
* 7 1,3-Dinitrobenzene-d4



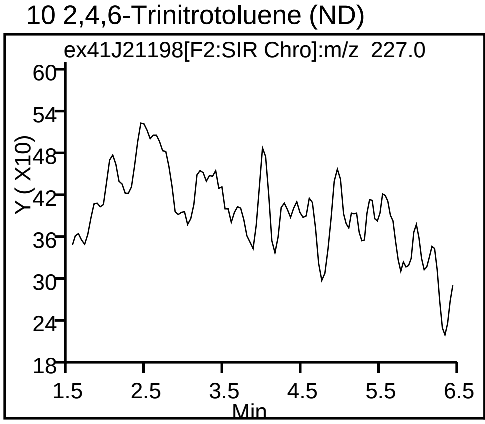
8 1,3-Dinitrobenzene (ND)



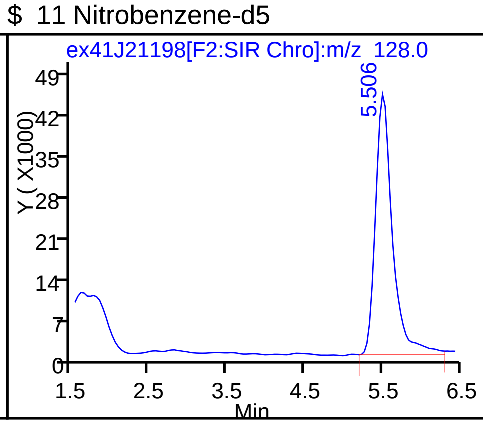
9 Nitroglycerin (ND)



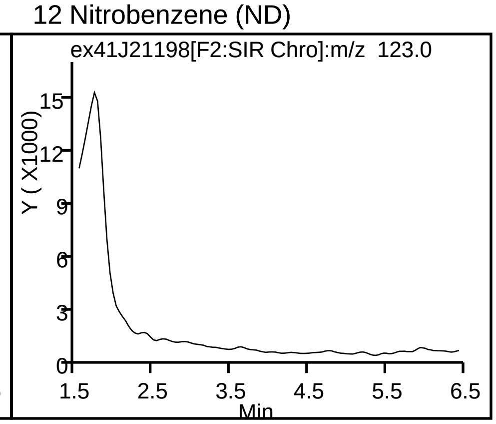
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

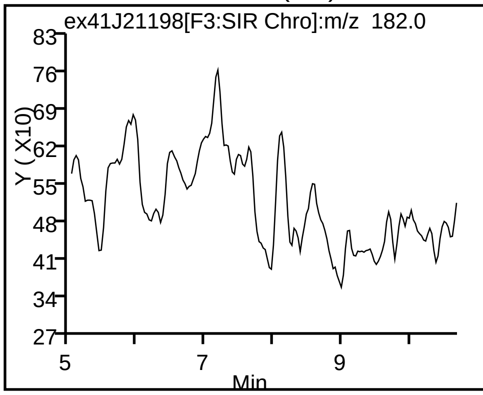


12 Nitrobenzene (ND)

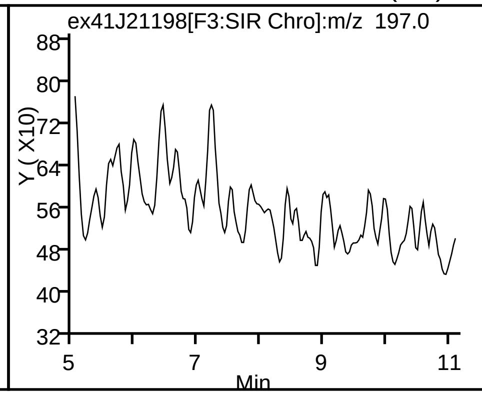


Report Date: 26-Oct-2011 09:44:21 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21198.d

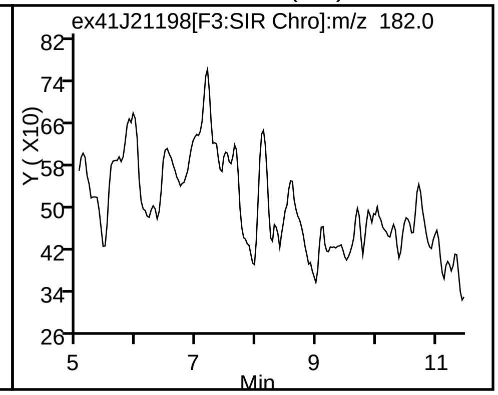
13 3,4-Dinitrotoluene (ND)



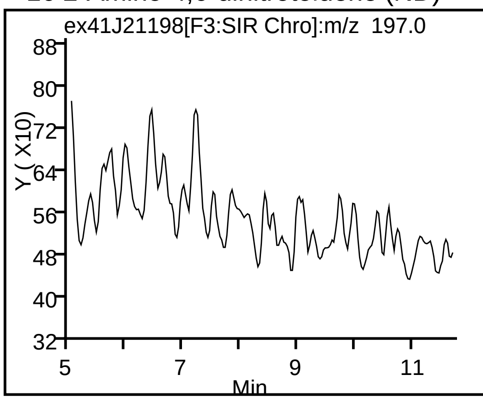
14 4-Amino-2,6-dinitrotoluene (ND)



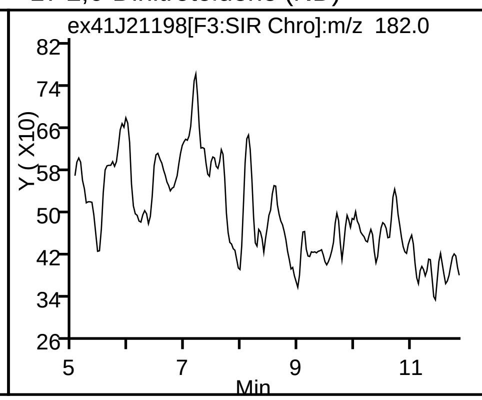
15 2,3-Dinitrotoluene (ND)



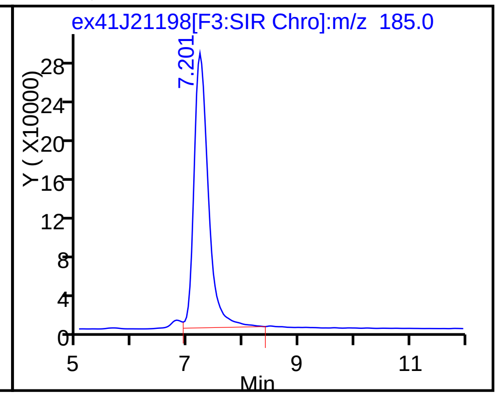
16 2-Amino-4,6-dinitrotoluene (ND)



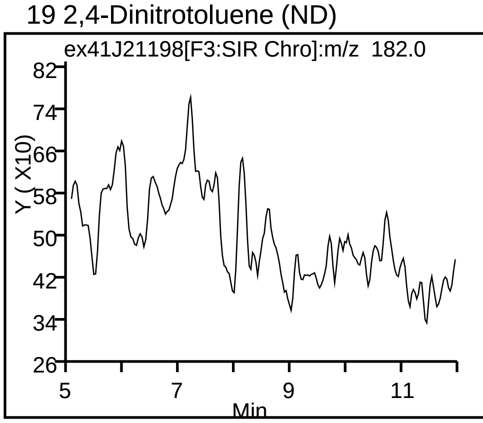
17 2,6-Dinitrotoluene (ND)



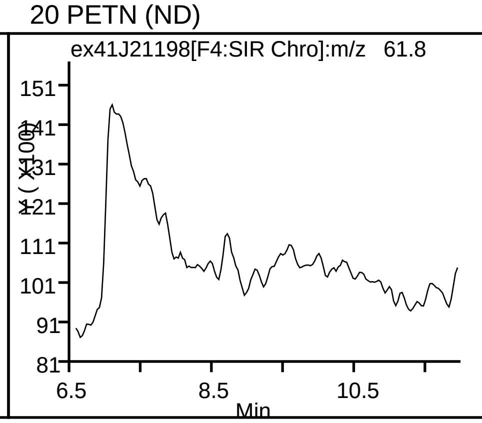
* 18 2,4-dinitrotoluene-d3



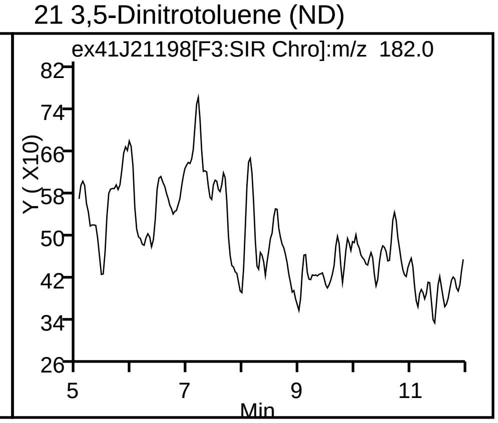
19 2,4-Dinitrotoluene (ND)



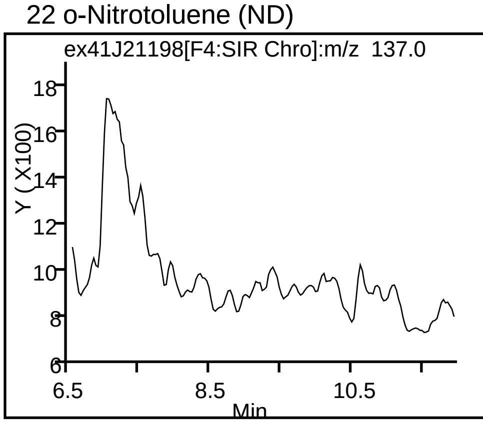
20 PETN (ND)



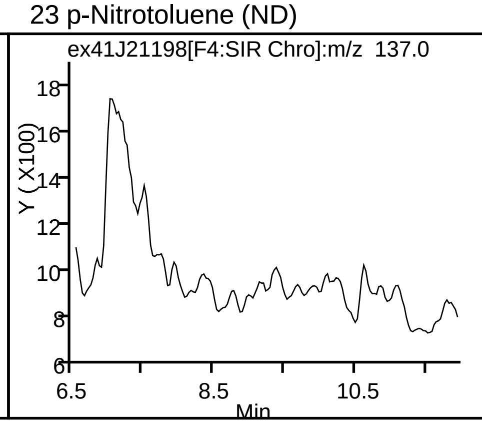
21 3,5-Dinitrotoluene (ND)



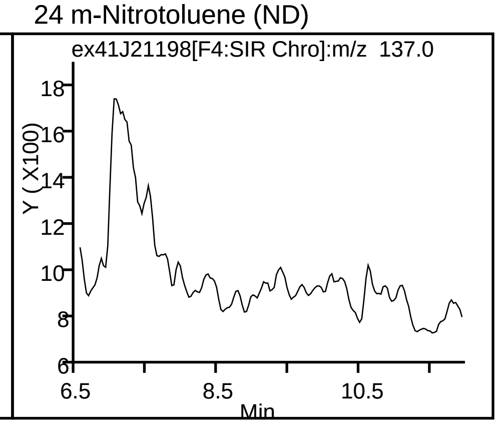
22 o-Nitrotoluene (ND)



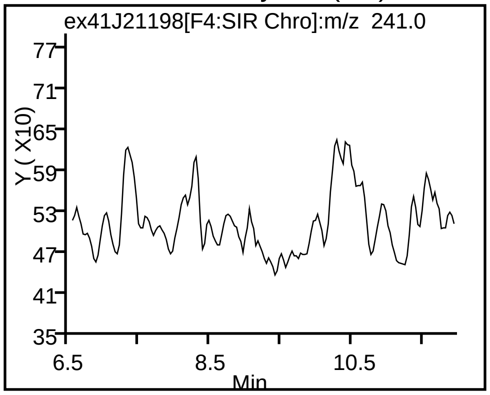
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG27 SB107 | Lab Sample ID: 280-21683-10

Matrix: Solid | Lab File ID: ex41J21199.d

Analysis Method: 8321B | Date Collected: 10/14/2011 10:17

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:15

Sample wt/vol: 10.28(g) | Date Analyzed: 10/26/2011 07:26

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92964 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U Q	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21199.d		
Lims ID:	280-21683-B-10-B	Client ID:	SB107
Inject. Date:	26-Oct-2011 07:26:17	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-10-B 280-0002644-193		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	53
Lims Batch ID:	92964	Lims Sample ID:	193
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:20	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		921511	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2995469	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1778629	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	678981	77.3			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.715							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.201	0.000		5109560	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									1
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									1
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.319							

QC Flag Legend

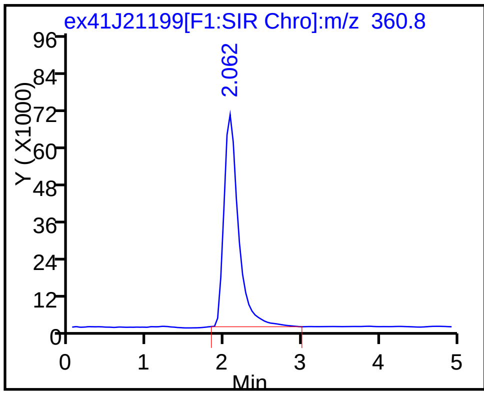
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 09:44:22 Chrom Revision: 1.2 13-Jul-2011 10:43:06

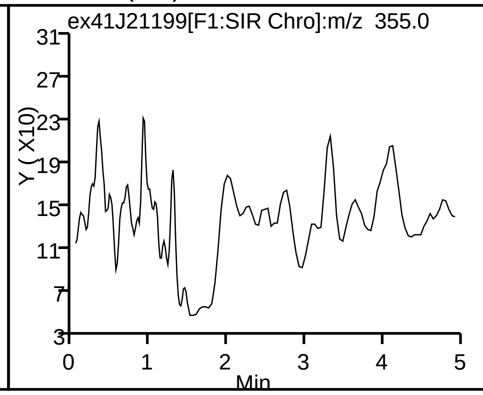
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21199.d

Injection Date:	26-Oct-2011 07:26:17	Limit Group:	LC - 8321A Expl
Client ID:	SB107	Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	193
Operator ID:		Injection Vol:	40.00 ul

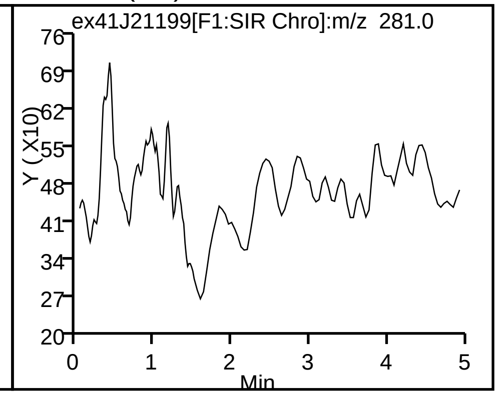
* 1 HMX-13C4



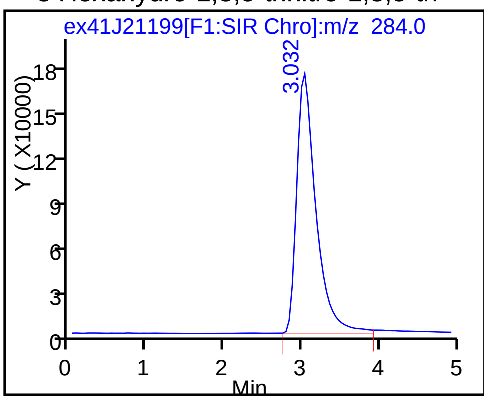
2 HMX (ND)



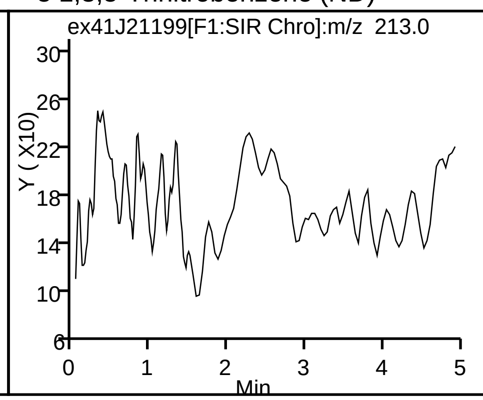
4 RDX (ND)



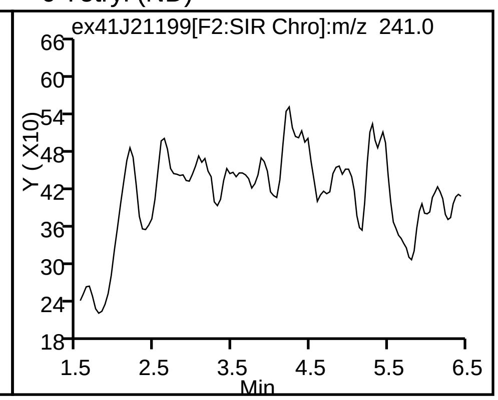
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



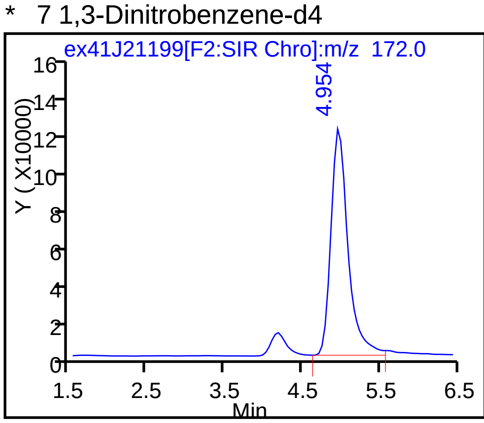
5 1,3,5-Trinitrobenzene (ND)



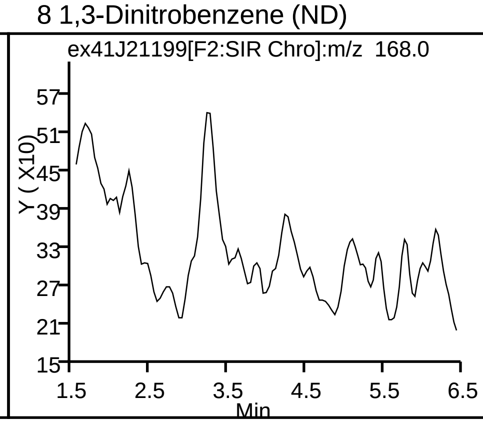
6 Tetryl (ND)



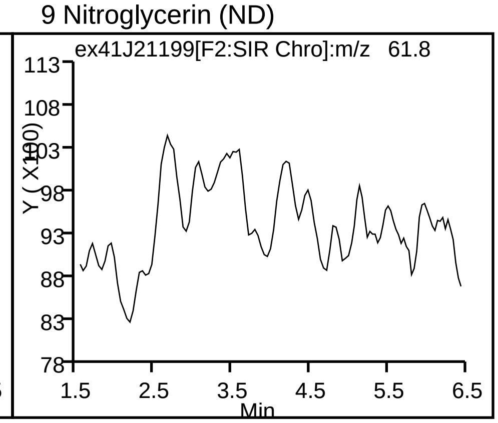
* 7 1,3-Dinitrobenzene-d4



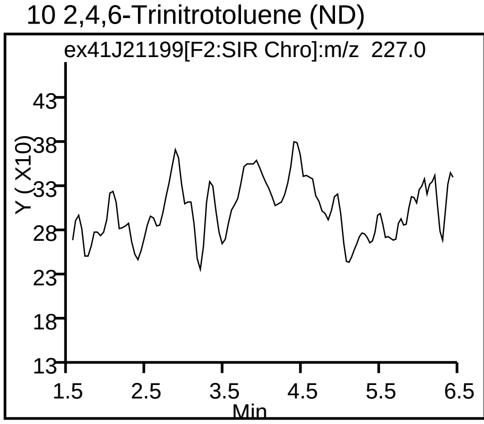
8 1,3-Dinitrobenzene (ND)



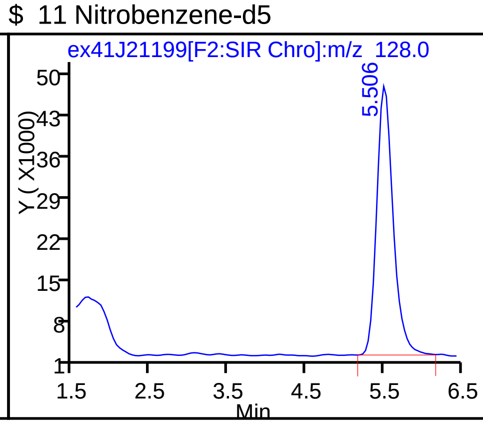
9 Nitroglycerin (ND)



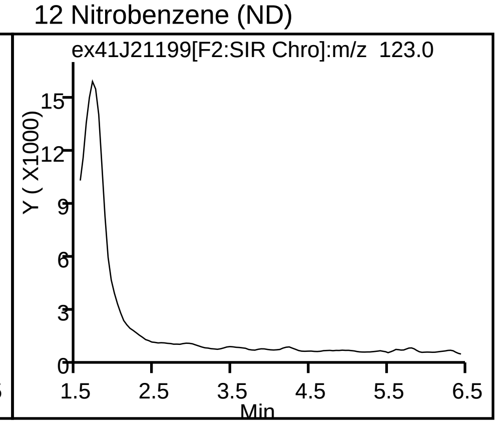
10 2,4,6-Trinitrotoluene (ND)



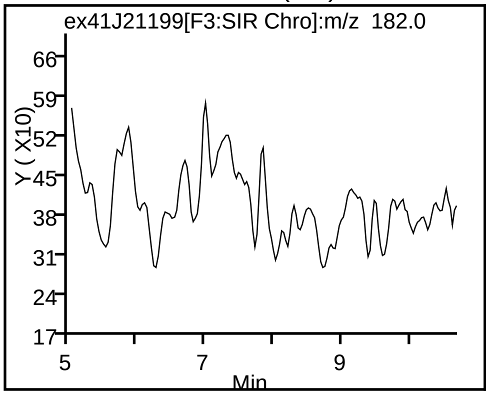
$ 11 Nitrobenzene-d5



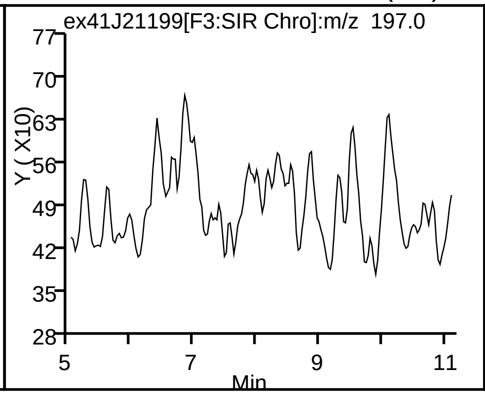
12 Nitrobenzene (ND)



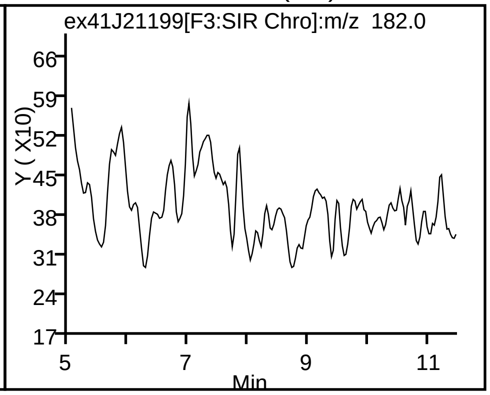
13 3,4-Dinitrotoluene (ND)



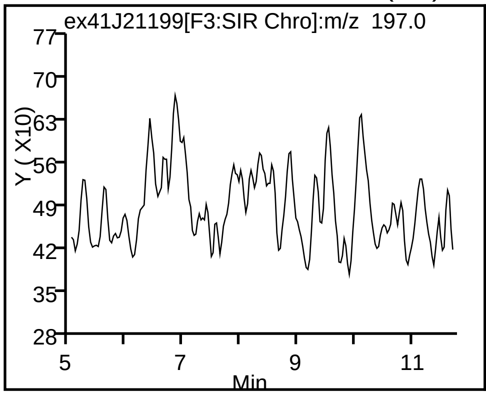
14 4-Amino-2,6-dinitrotoluene (ND)



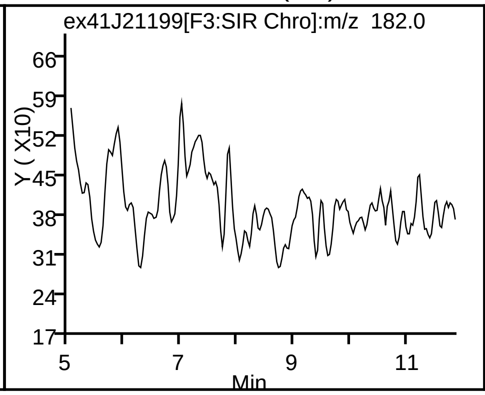
15 2,3-Dinitrotoluene (ND)



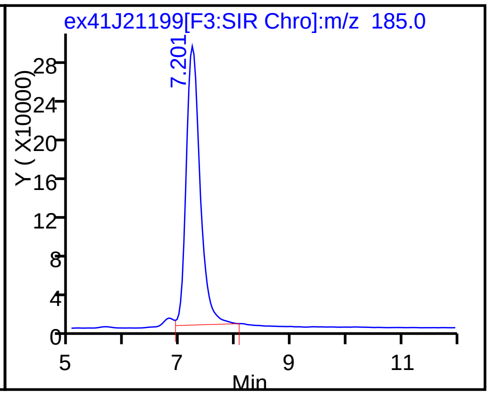
16 2-Amino-4,6-dinitrotoluene (ND)



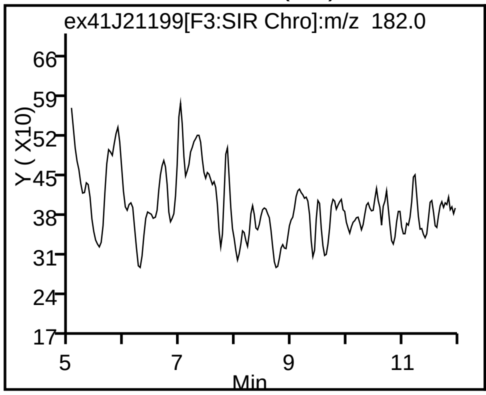
17 2,6-Dinitrotoluene (ND)



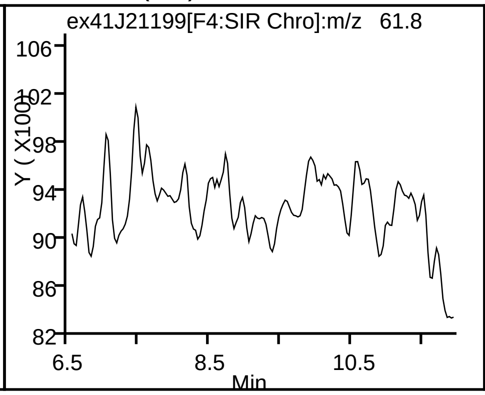
* 18 2,4-dinitrotoluene-d3



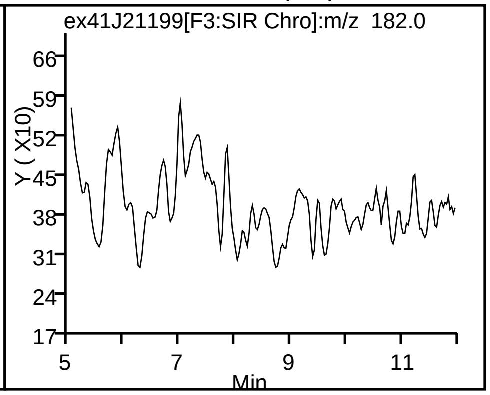
19 2,4-Dinitrotoluene (ND)



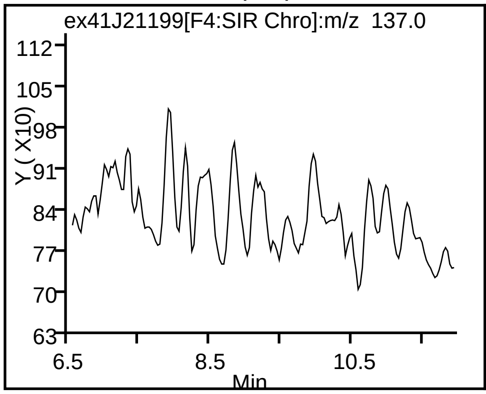
20 PETN (ND)



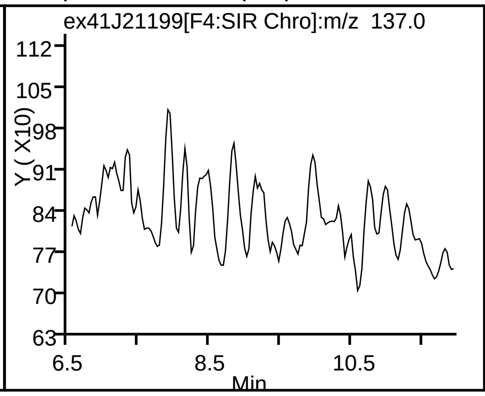
21 3,5-Dinitrotoluene (ND)



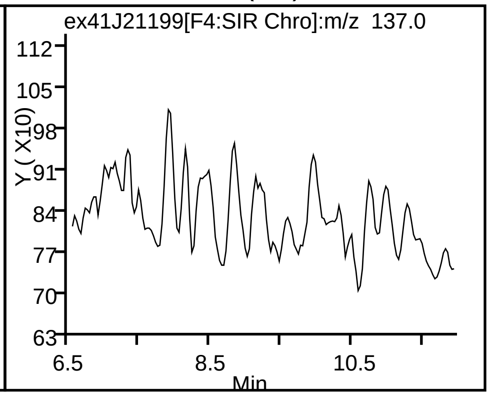
22 o-Nitrotoluene (ND)



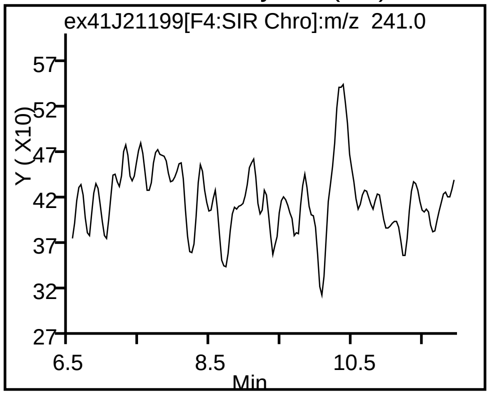
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG27 SB106   Lab Sample ID: 280-21683-11

Matrix: Solid   Lab File ID: ex41J21200.d

Analysis Method: 8321B   Date Collected: 10/14/2011 10:09

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:15

Sample wt/vol: 10.59(g)   Date Analyzed: 10/26/2011 07:39

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92964   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.094	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.024	U	0.094	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.094	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.094	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.094	0.024	0.010
2691-41-0	HMX	0.012	U	0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.094	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.094	0.012	0.0099
78-11-5	PETN	0.012	U Q	0.094	0.012	0.0049
121-82-4	RDX	0.012	U	0.094	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.094	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	79		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21200.d		
Lims ID:	280-21683-A-11-C	Client ID:	SB106
Inject. Date:	26-Oct-2011 07:39:51	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-11-C 280-0002644-194		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	54
Lims Batch ID:	92964	Lims Sample ID:	194
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:20	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		897772	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2700945	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1680753	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	646820	77.9			
12 Nitrobenzene										
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.715							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.201	0.000		5356078	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.319							

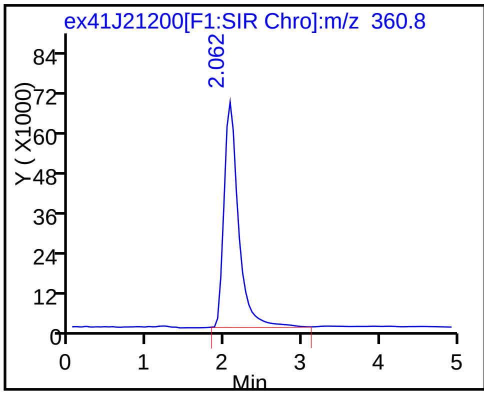
QC Flag Legend

Processing Flags
1 - Missing Peaks

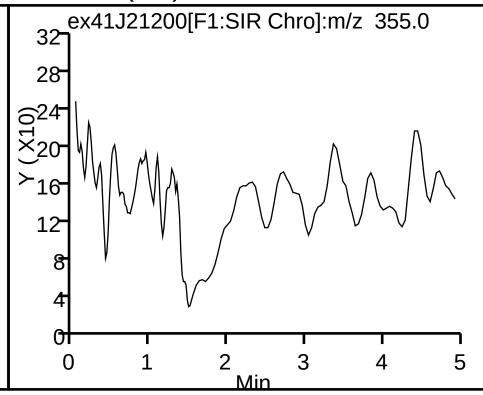
Report Date: 26-Oct-2011 09:44:23 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21200.d

Injection Date:	26-Oct-2011 07:39:51	Limit Group:	LC - 8321A Expl
Client ID:	SB106	Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	194
Operator ID:		Injection Vol:	40.00 ul

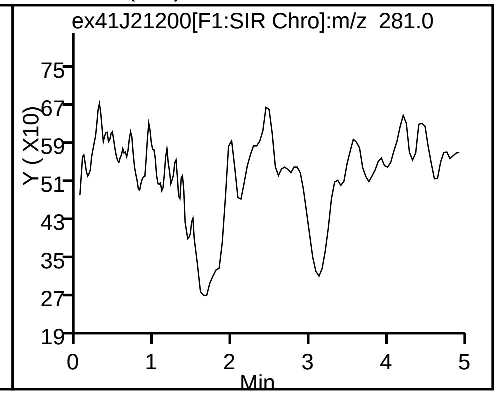
* 1 HMX-13C4



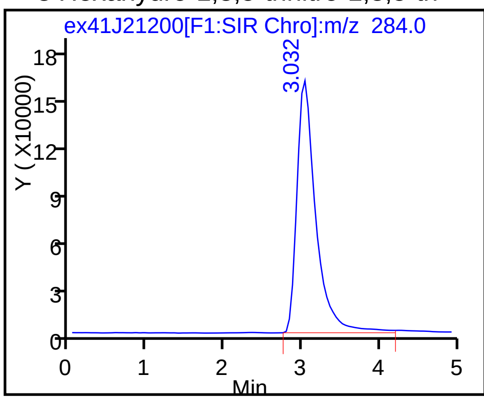
2 HMX (ND)



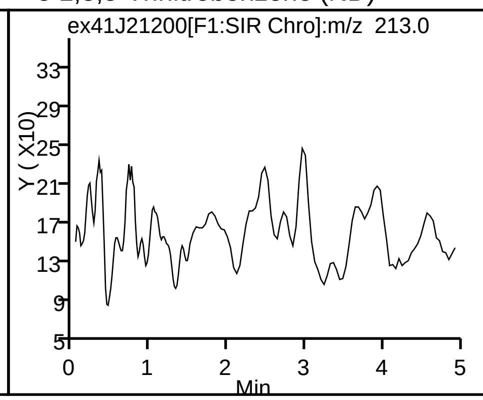
4 RDX (ND)



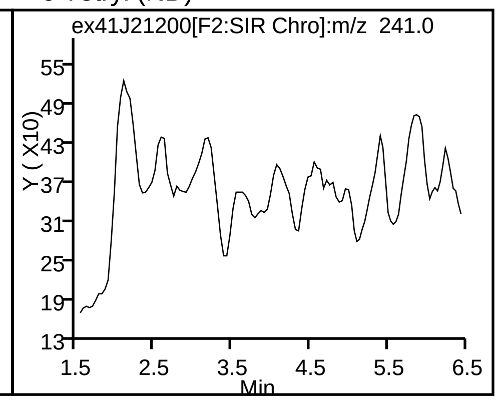
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



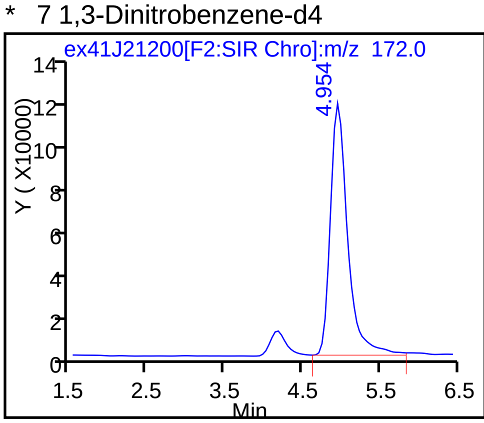
5 1,3,5-Trinitrobenzene (ND)



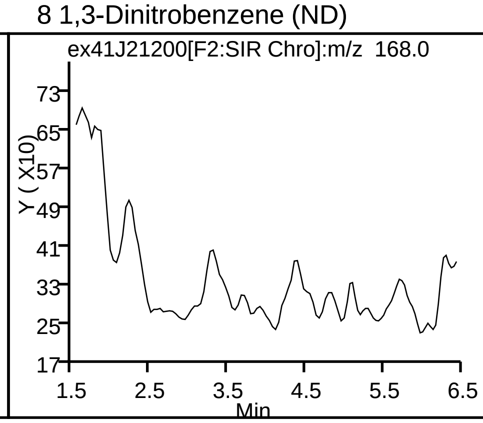
6 Tetryl (ND)



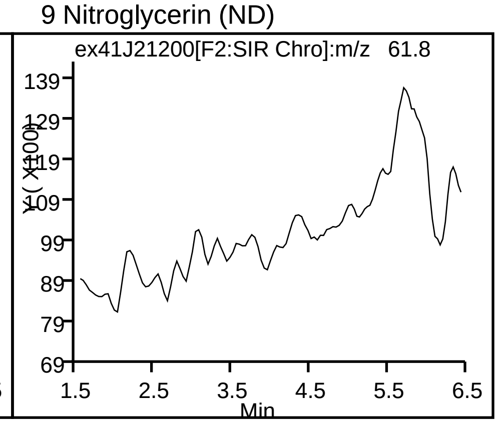
* 7 1,3-Dinitrobenzene-d4



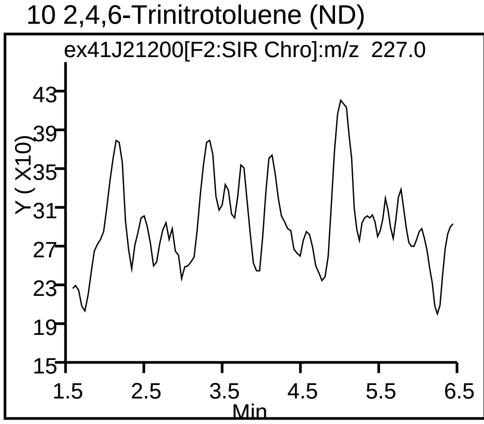
8 1,3-Dinitrobenzene (ND)



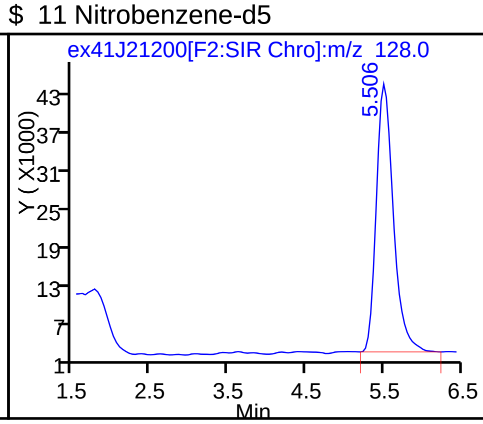
9 Nitroglycerin (ND)



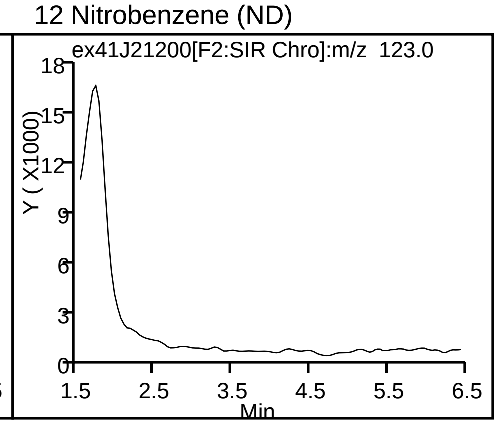
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

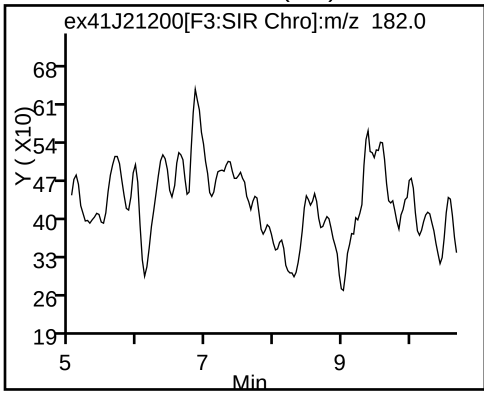


12 Nitrobenzene (ND)

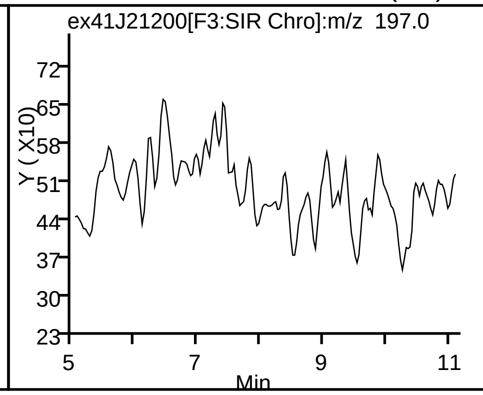


Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21200.d

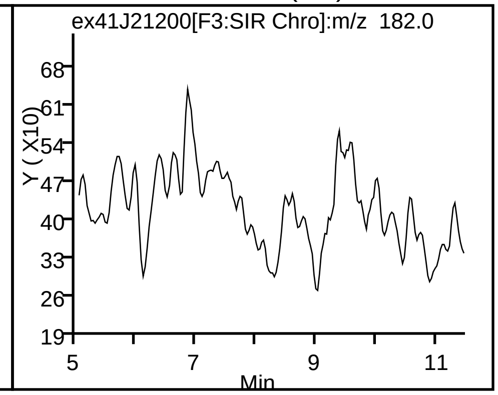
13 3,4-Dinitrotoluene (ND)



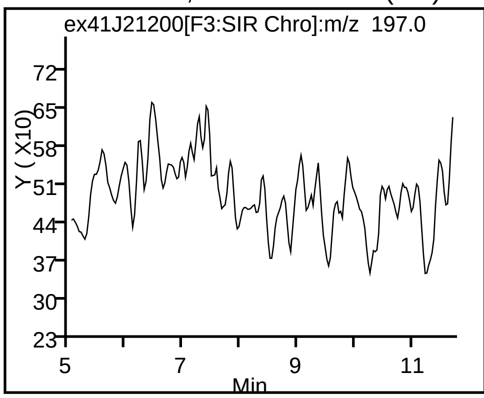
14 4-Amino-2,6-dinitrotoluene (ND)



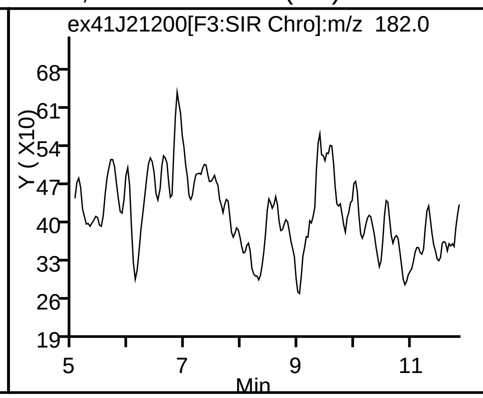
15 2,3-Dinitrotoluene (ND)



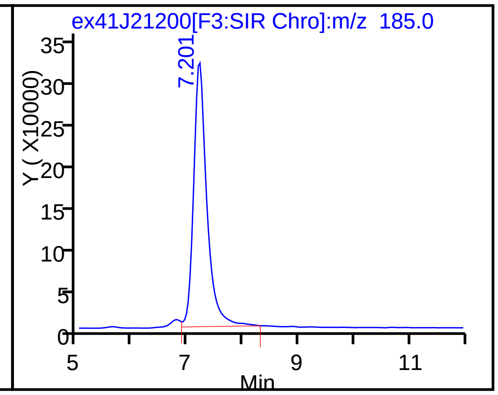
16 2-Amino-4,6-dinitrotoluene (ND)



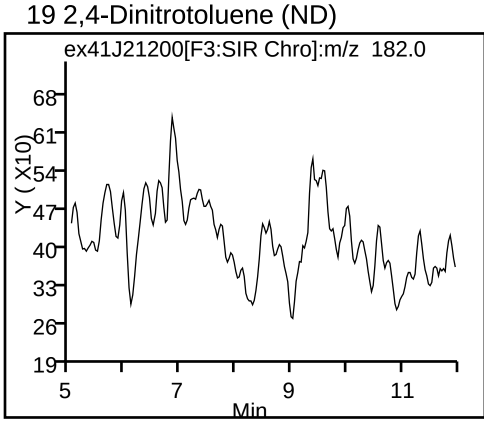
17 2,6-Dinitrotoluene (ND)



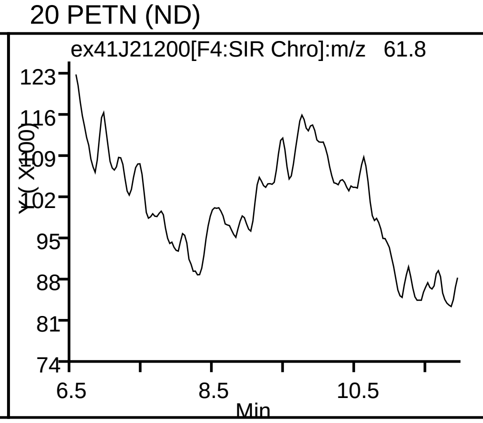
* 18 2,4-dinitrotoluene-d3



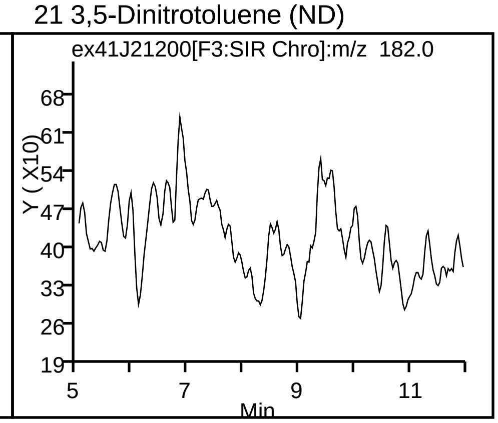
19 2,4-Dinitrotoluene (ND)



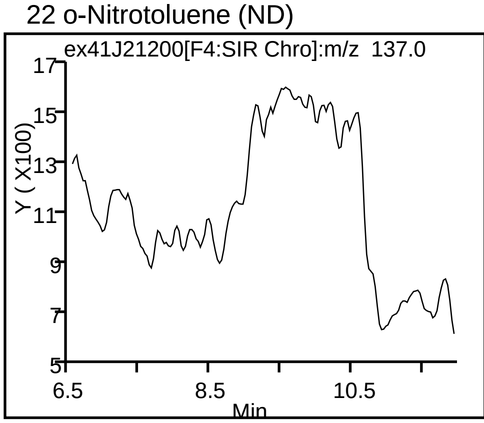
20 PETN (ND)



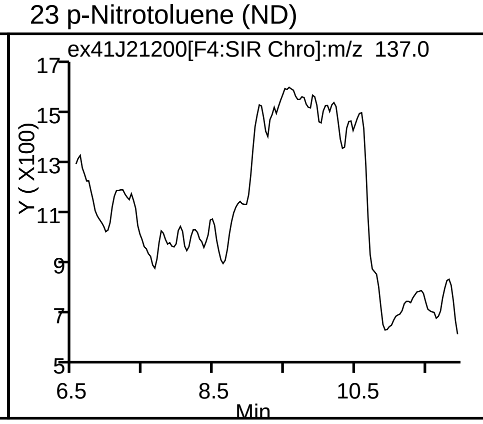
21 3,5-Dinitrotoluene (ND)



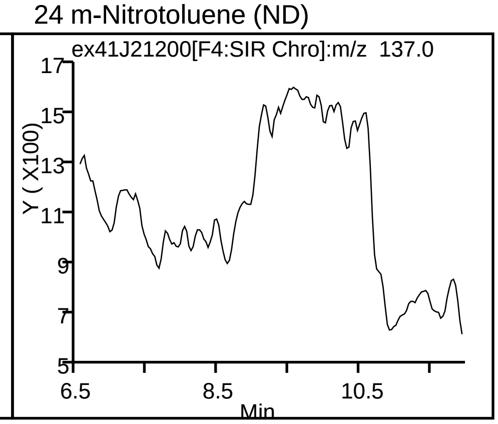
22 o-Nitrotoluene (ND)



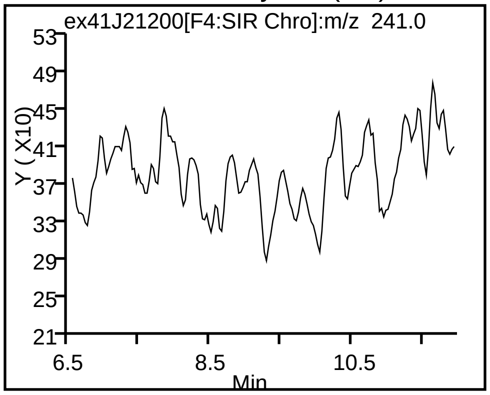
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name:	TestAmerica Denver	Job No.:	280-21683-1
SDG No.:			
Client Sample ID:	MG25 SB102	Lab Sample ID:	280-21683-12
Matrix:	Solid	Lab File ID:	ex41J21204.d
Analysis Method:	8321B	Date Collected:	10/14/2011 10:29
Extraction Method:	8330B	Date Extracted:	10/20/2011 19:15
Sample wt/vol:	10.16(g)	Date Analyzed:	10/26/2011 09:05
Con. Extract Vol.:	40(mL)	Dilution Factor:	1
Injection Volume:	40(uL)	GC Column:	IonPac ID: 2(mm)
% Moisture:		GPC Cleanup:(Y/N)	N
Analysis Batch No.:	92964	Units:	mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U Q	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	75		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21204.d		
Lims ID:	280-21683-A-12-C	Client ID:	SB102
Inject. Date:	26-Oct-2011 09:05:09	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-12-C 280-0002644-197		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	57
Lims Batch ID:	92964	Lims Sample ID:	197
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:20	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		1032157	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3222810	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1877348	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.573	5.506	0.067	1.116	691436	74.5			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.292	7.201	0.091		5161204	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

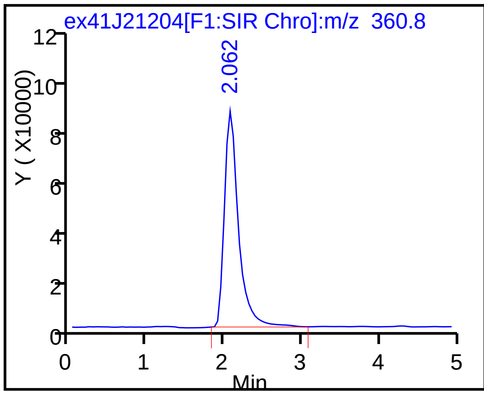
QC Flag Legend

Processing Flags
1 - Missing Peaks

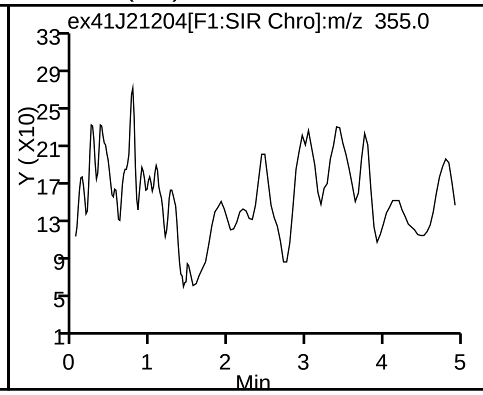
Report Date: 26-Oct-2011 09:44:25   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21204.d

Injection Date:	26-Oct-2011 09:05:09	Limit Group:	LC - 8321A Expl
Client ID:	SB102	Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	197
Operator ID:		Injection Vol:	40.00 ul

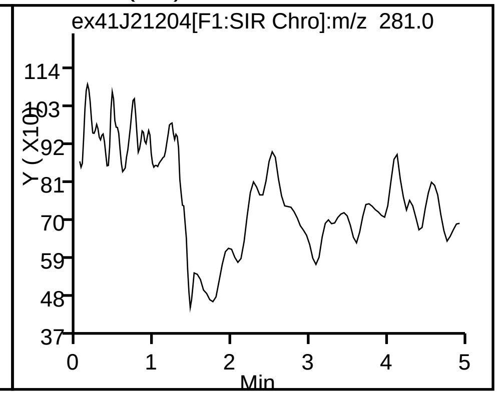
* 1 HMX-13C4



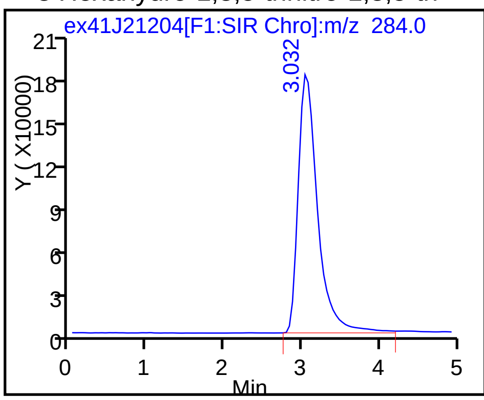
2 HMX (ND)



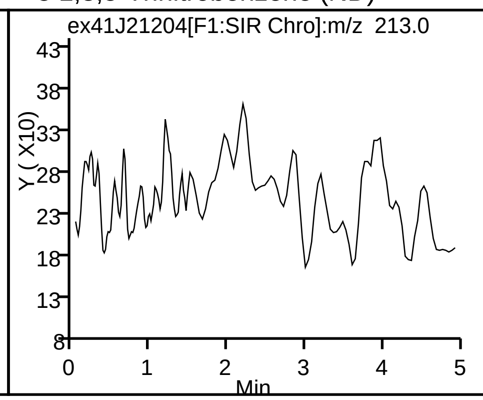
4 RDX (ND)



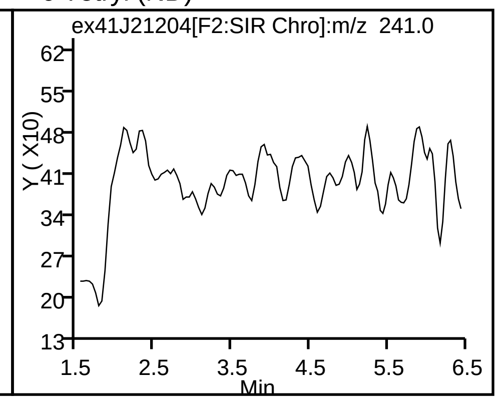
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



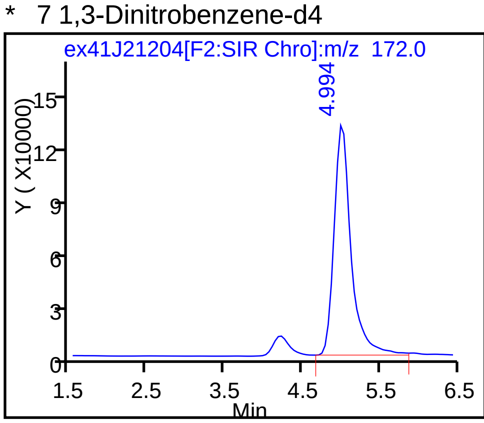
5 1,3,5-Trinitrobenzene (ND)



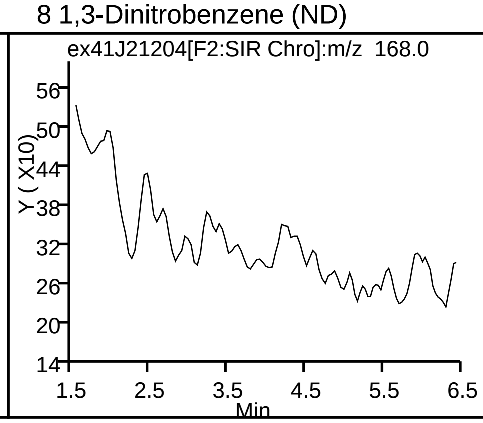
6 Tetryl (ND)



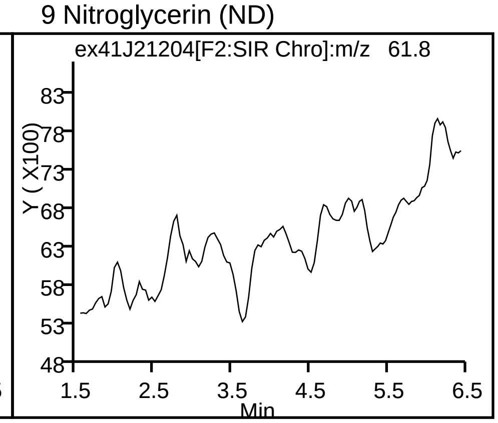
* 7 1,3-Dinitrobenzene-d4



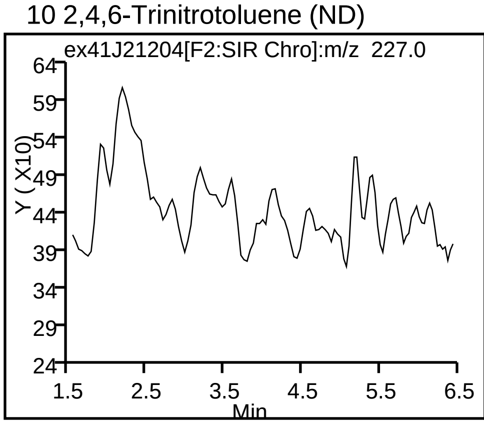
8 1,3-Dinitrobenzene (ND)



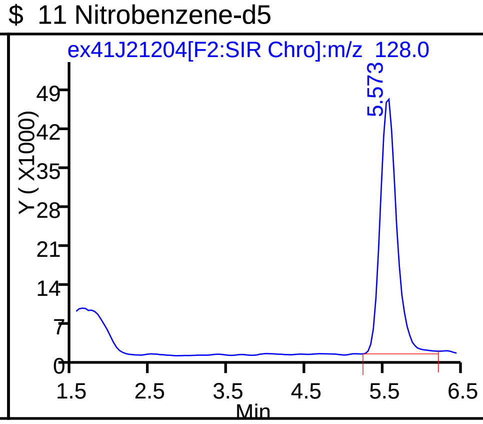
9 Nitroglycerin (ND)



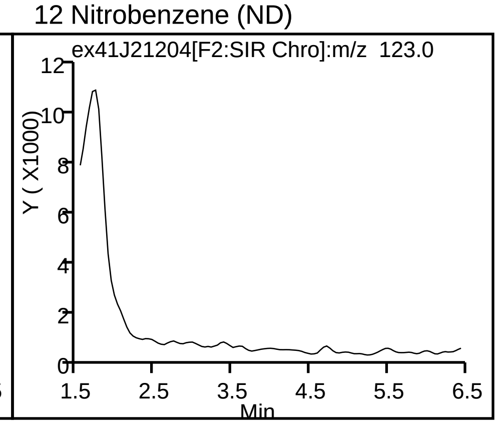
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

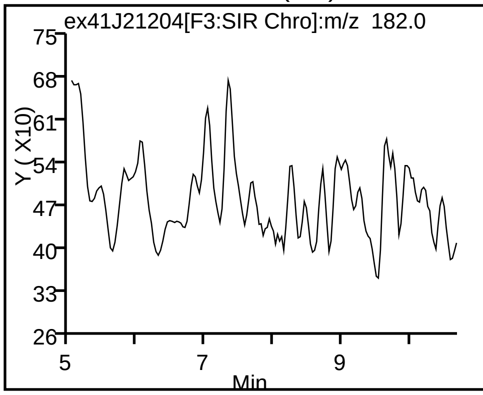


12 Nitrobenzene (ND)

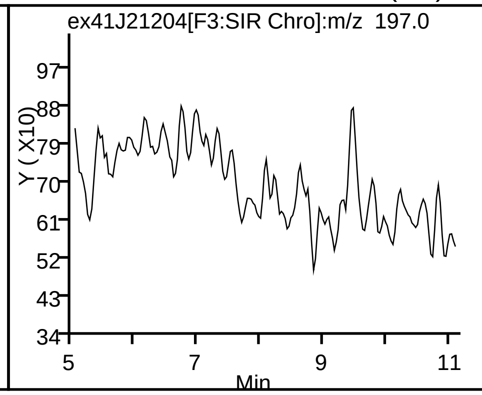


Report Date: 26-Oct-2011 09:44:25   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21204.d

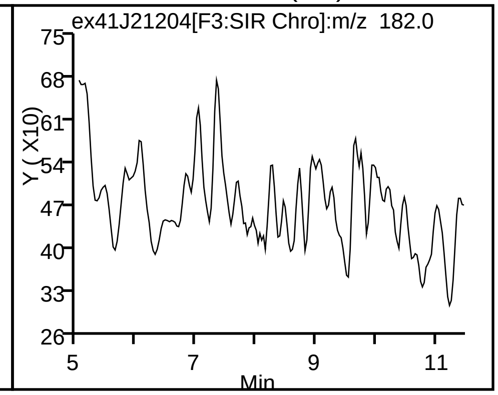
13 3,4-Dinitrotoluene (ND)



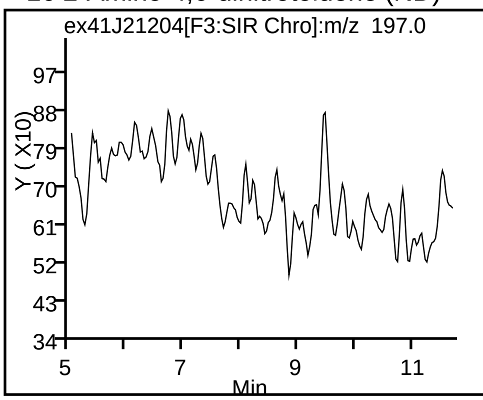
14 4-Amino-2,6-dinitrotoluene (ND)



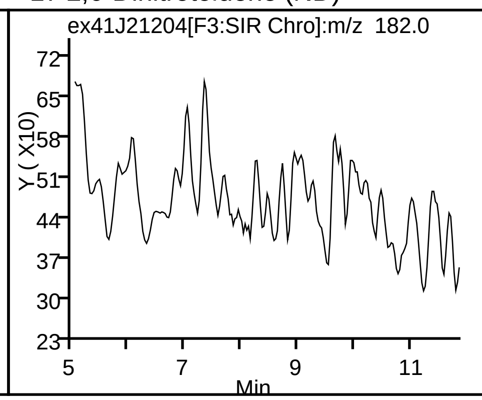
15 2,3-Dinitrotoluene (ND)



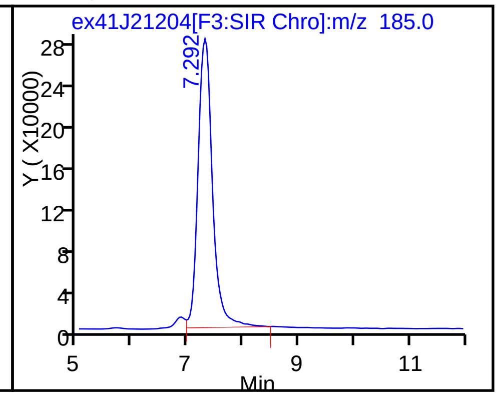
16 2-Amino-4,6-dinitrotoluene (ND)



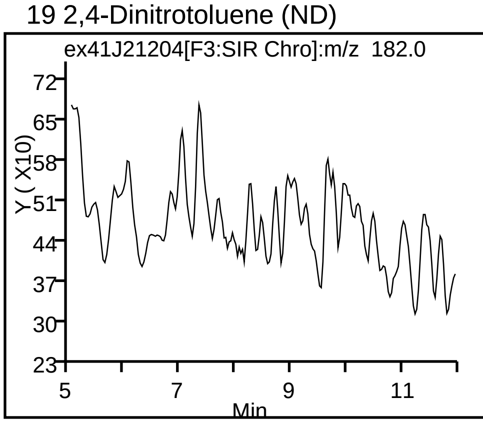
17 2,6-Dinitrotoluene (ND)



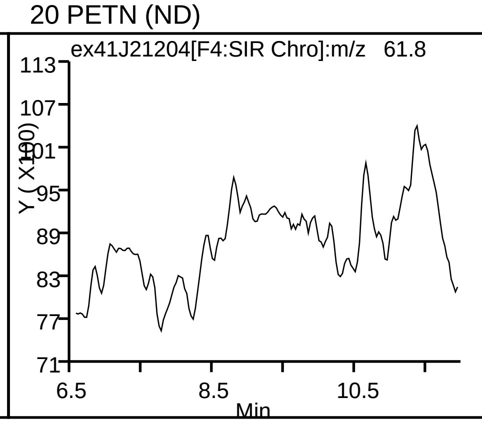
* 18 2,4-dinitrotoluene-d3



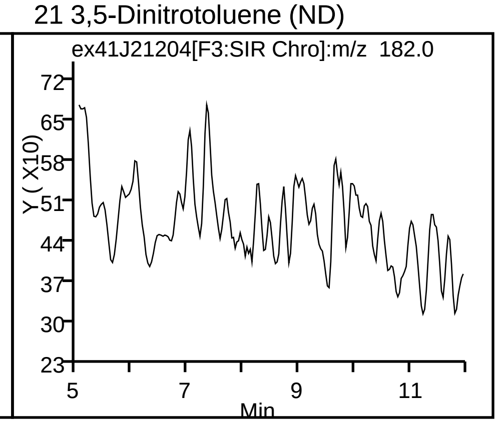
19 2,4-Dinitrotoluene (ND)



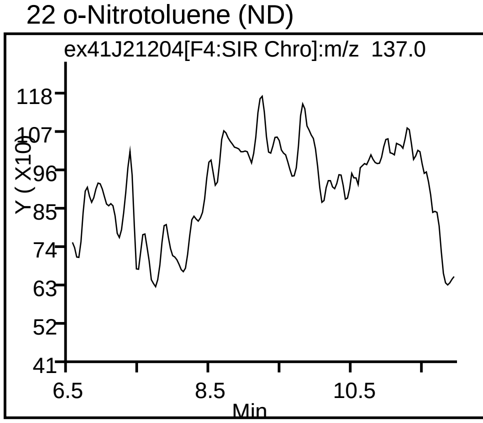
20 PETN (ND)



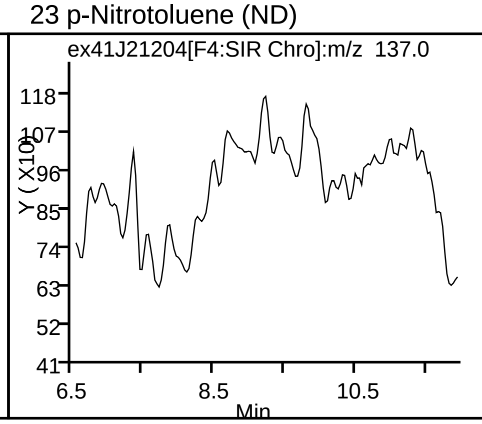
21 3,5-Dinitrotoluene (ND)



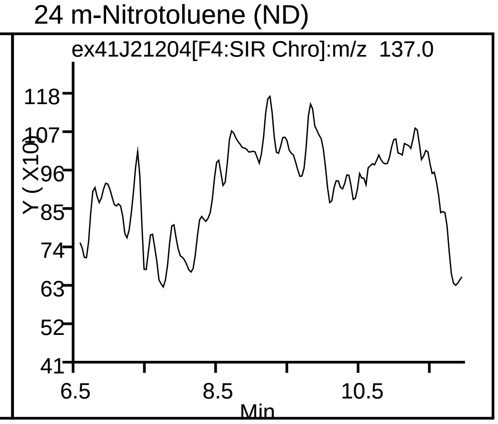
22 o-Nitrotoluene (ND)



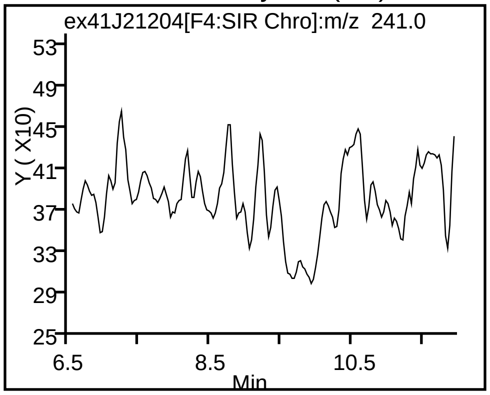
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG23 SB099 | Lab Sample ID: 280-21683-13

Matrix: Solid | Lab File ID: ex41J21156.d

Analysis Method: 8321B | Date Collected: 10/14/2011 08:58

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.20(g) | Date Analyzed: 10/25/2011 14:14

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U Q	0.098	0.012	0.0050
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

Report Date: 26-Oct-2011 06:24:08 Chrom Revision: 1.2 13-Jul-2011 10:43:06

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21156.d		
Lims ID:	280-21683-A-13-C	Client ID:	SB099
Inject. Date:	25-Oct-2011 14:14:31	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-13-C 280-0002644-151		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	23
Lims Batch ID:	92961	Lims Sample ID:	151
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:27:03	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	26-Oct-2011 06:09:08

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		842496	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2824662	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1586780	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	621356	79.3			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5167748	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										
4	137.0		8.254							
23 p-Nitrotoluene										
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

QC Flag Legend

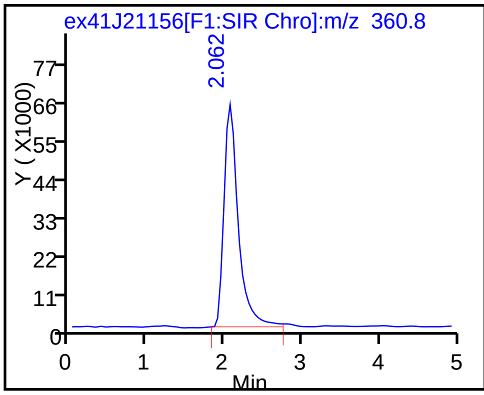
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 06:24:08 Chrom Revision: 1.2 13-Jul-2011 10:43:06

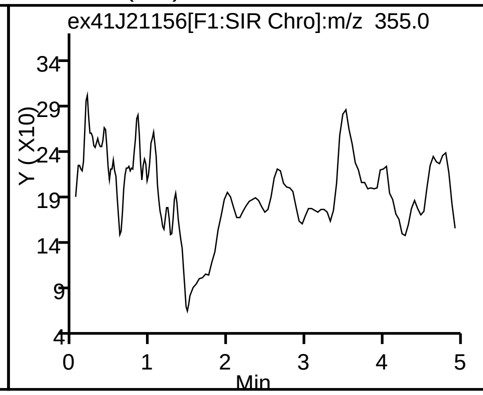
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21156.d

Injection Date:	25-Oct-2011 14:14:31	Limit Group:	LC - 8321A Expl
Client ID:	SB099	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	151
Operator ID:		Injection Vol:	40.00 ul

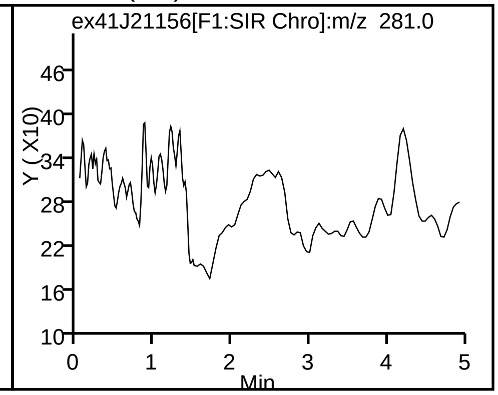
* 1 HMX-13C4



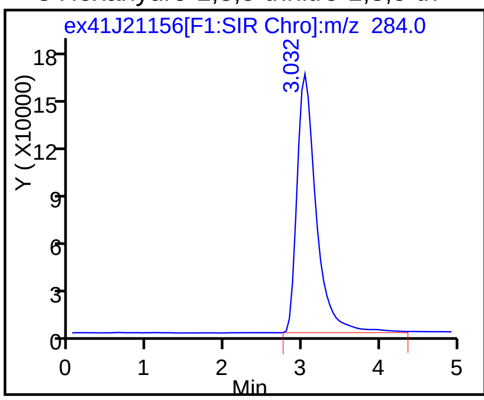
2 HMX (ND)



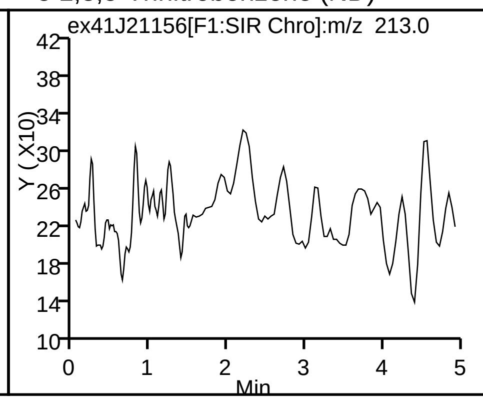
4 RDX (ND)



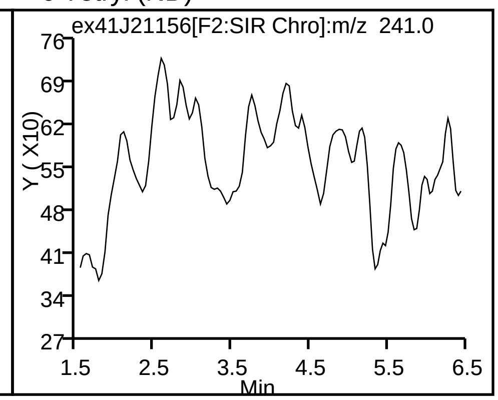
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



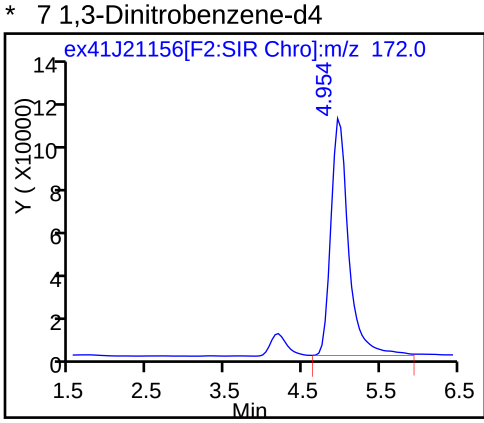
5 1,3,5-Trinitrobenzene (ND)



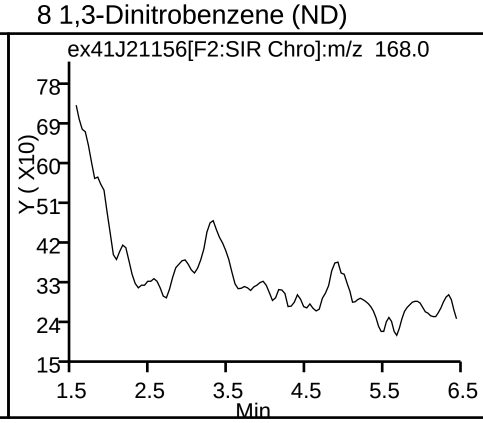
6 Tetryl (ND)



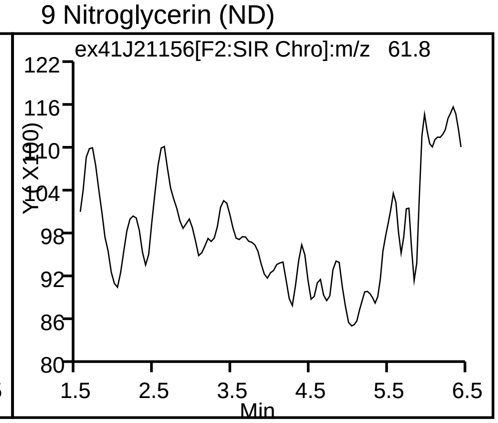
* 7 1,3-Dinitrobenzene-d4



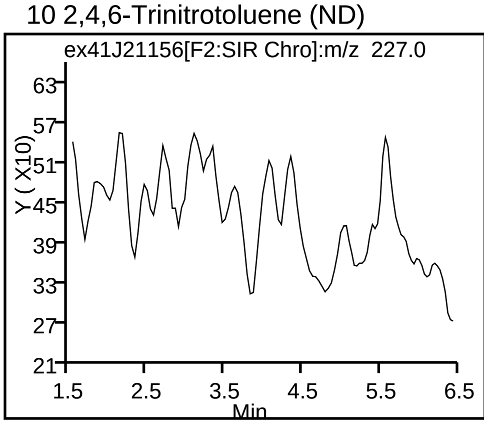
8 1,3-Dinitrobenzene (ND)



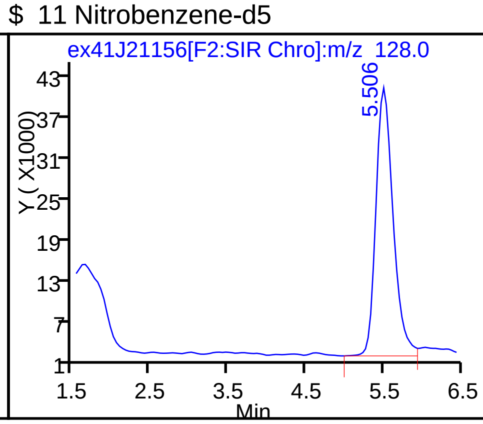
9 Nitroglycerin (ND)



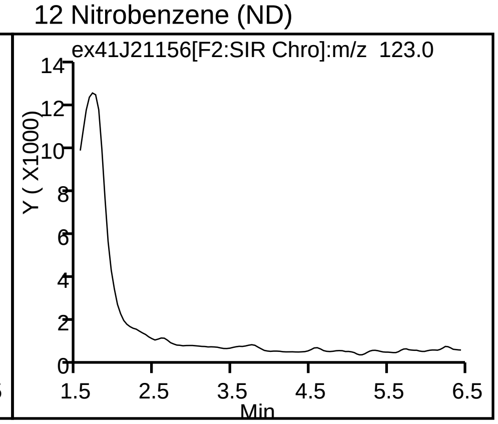
10 2,4,6-Trinitrotoluene (ND)



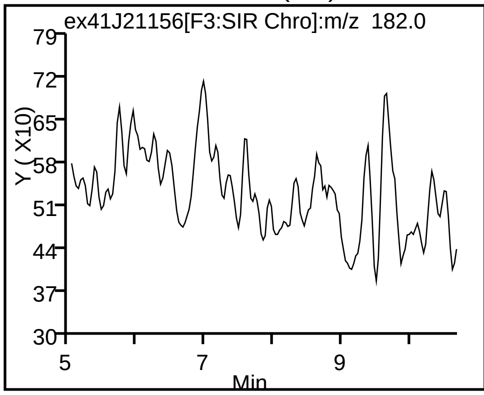
$ 11 Nitrobenzene-d5



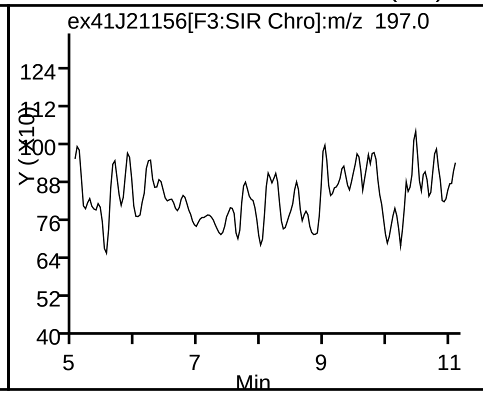
12 Nitrobenzene (ND)



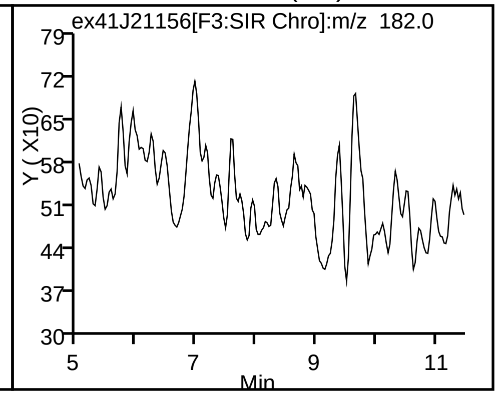
13 3,4-Dinitrotoluene (ND)



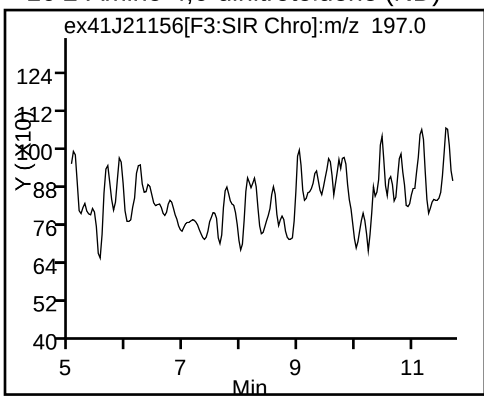
14 4-Amino-2,6-dinitrotoluene (ND)



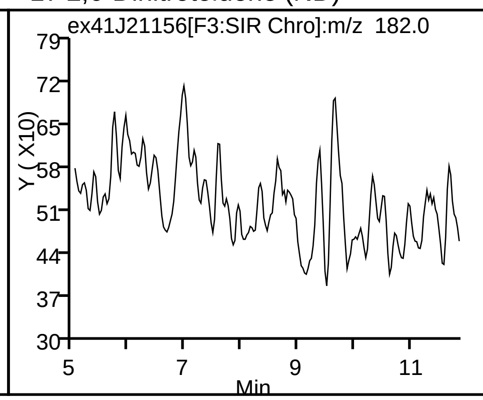
15 2,3-Dinitrotoluene (ND)



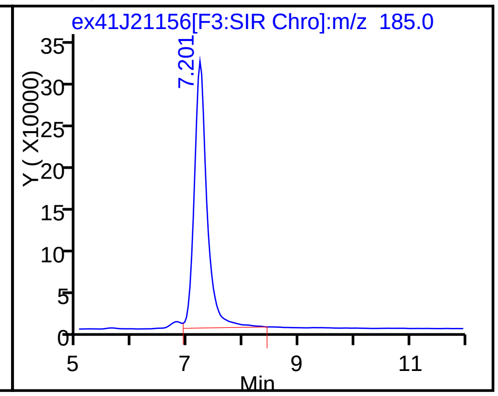
16 2-Amino-4,6-dinitrotoluene (ND)



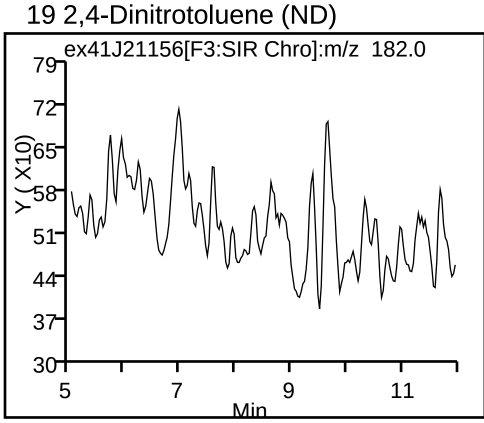
17 2,6-Dinitrotoluene (ND)



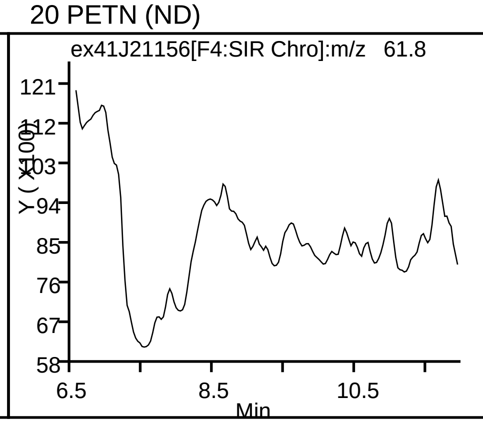
* 18 2,4-dinitrotoluene-d3



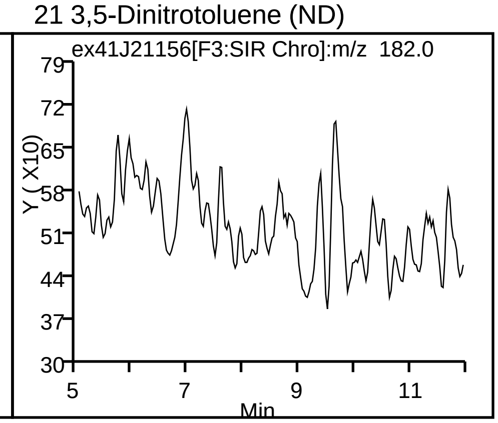
19 2,4-Dinitrotoluene (ND)



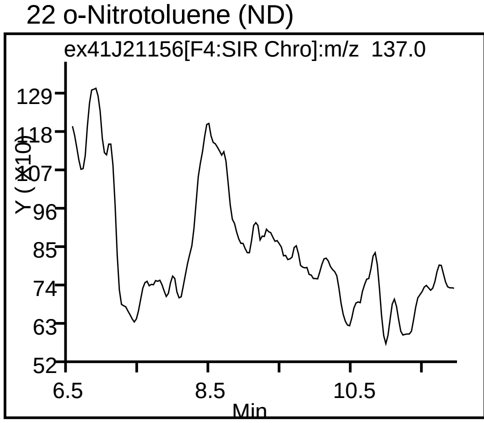
20 PETN (ND)



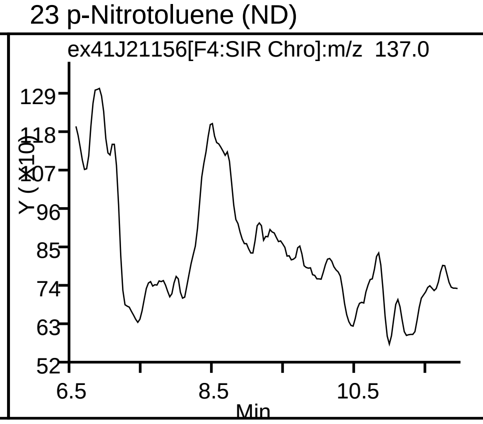
21 3,5-Dinitrotoluene (ND)



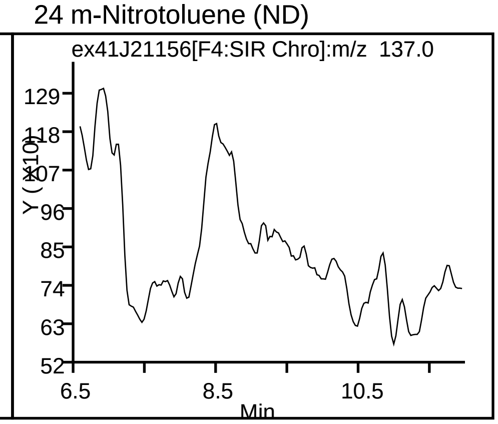
22 o-Nitrotoluene (ND)



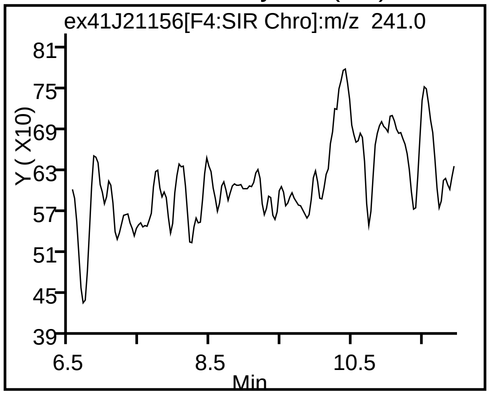
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG25 SB103 | Lab Sample ID: 280-21683-14

Matrix: Solid | Lab File ID: ex41J21157.d

Analysis Method: 8321B | Date Collected: 10/14/2011 10:33

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.52(g) | Date Analyzed: 10/25/2011 14:28

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U Q	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21157.d		
Lims ID:	280-21683-B-14-B	Client ID:	SB103
Inject. Date:	25-Oct-2011 14:28:21	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-14-B 280-0002644-152		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	24
Lims Batch ID:	92961	Lims Sample ID:	152
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:27:03	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		902216	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3422271	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1916286	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	710681	75.0			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.715							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.201	0.000		5416962	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									1
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									1
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.319							

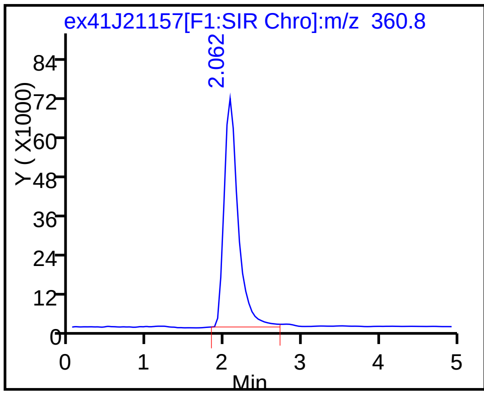
QC Flag Legend

Processing Flags
1 - Missing Peaks

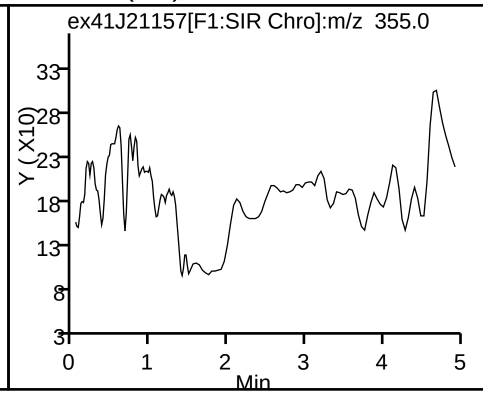
Report Date: 26-Oct-2011 06:24:08 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21157.d		
Injection Date:	25-Oct-2011 14:28:21	Limit Group:	LC - 8321A Expl
Client ID:	SB103	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	152
Operator ID:		Injection Vol:	40.00 ul

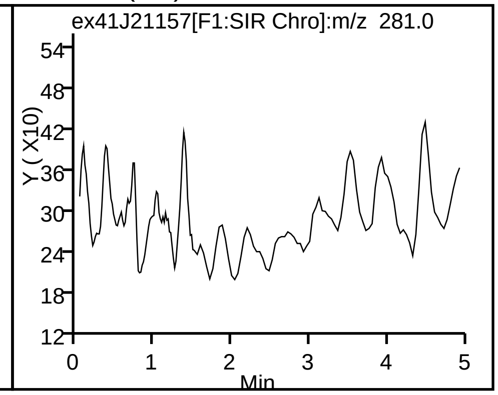
* 1 HMX-13C4



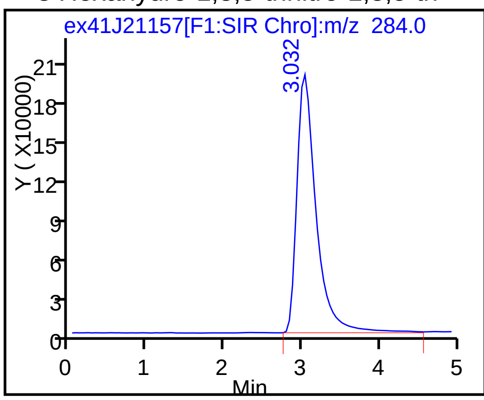
2 HMX (ND)



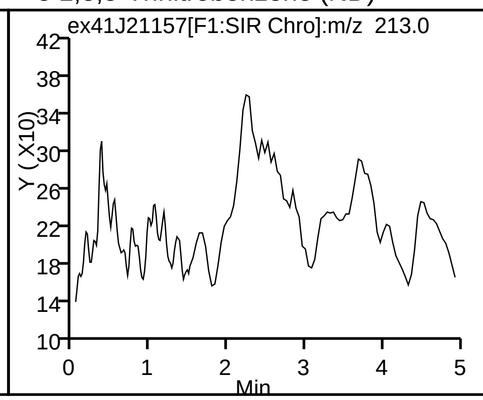
4 RDX (ND)



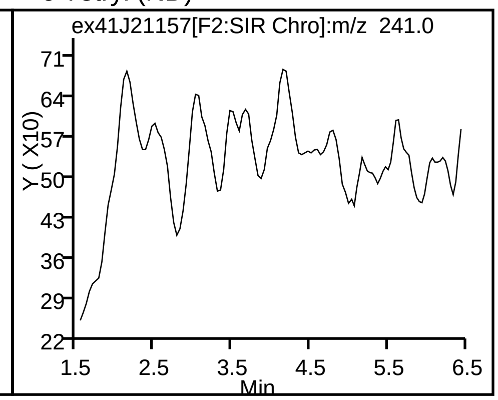
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



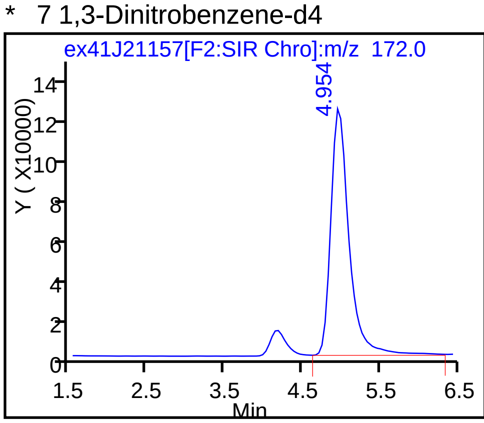
5 1,3,5-Trinitrobenzene (ND)



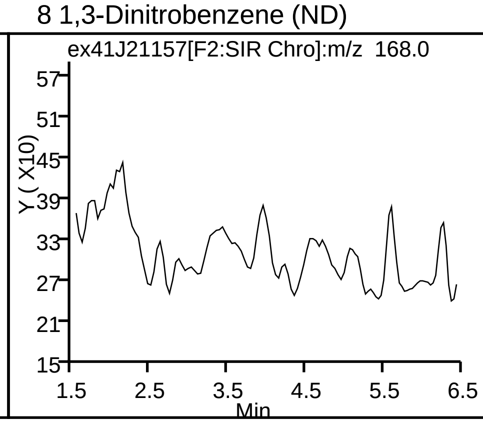
6 Tetryl (ND)



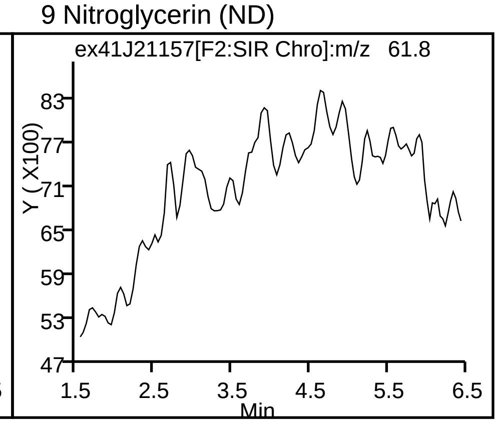
* 7 1,3-Dinitrobenzene-d4



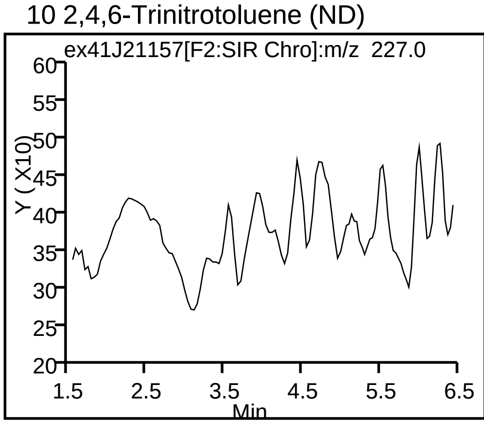
8 1,3-Dinitrobenzene (ND)



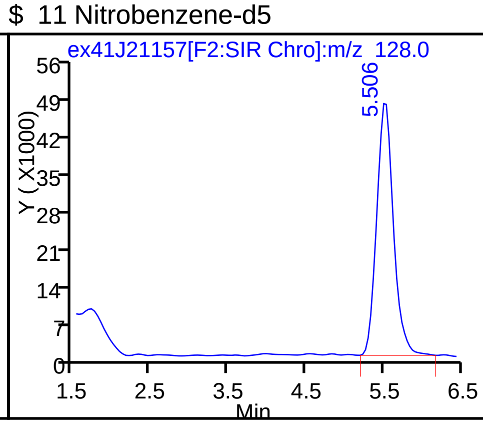
9 Nitroglycerin (ND)



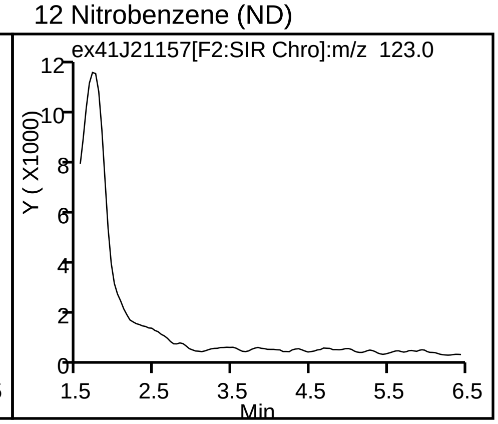
10 2,4,6-Trinitrotoluene (ND)



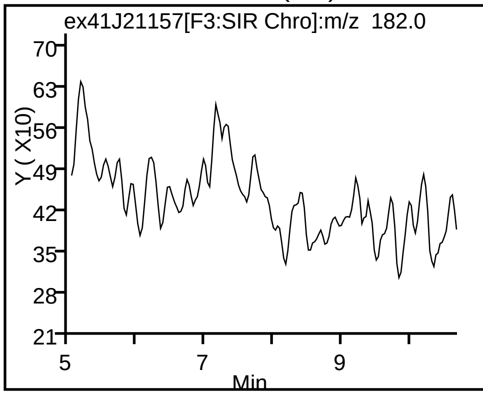
$ 11 Nitrobenzene-d5



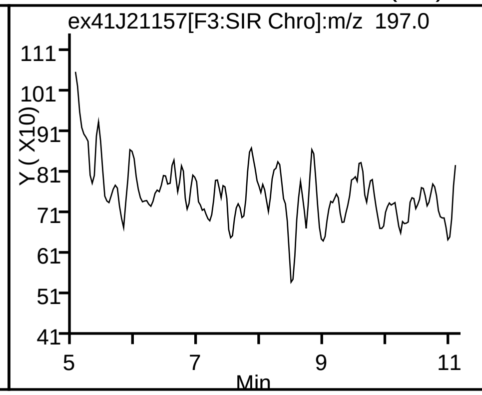
12 Nitrobenzene (ND)



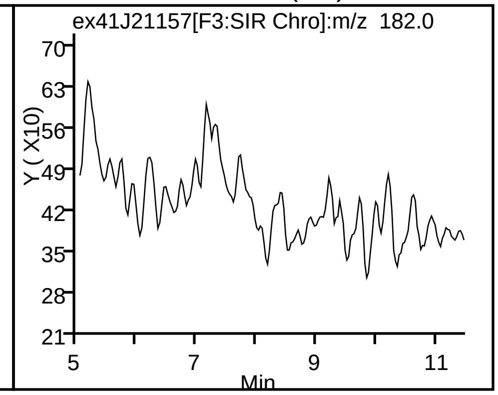
13 3,4-Dinitrotoluene (ND)



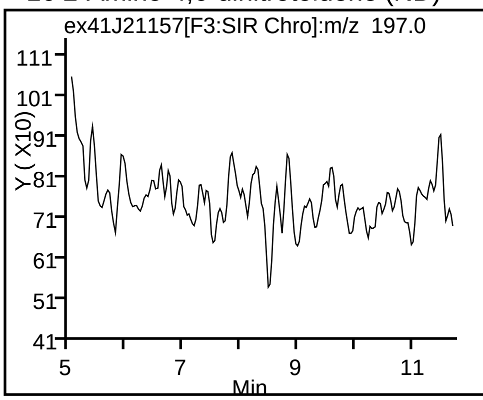
14 4-Amino-2,6-dinitrotoluene (ND)



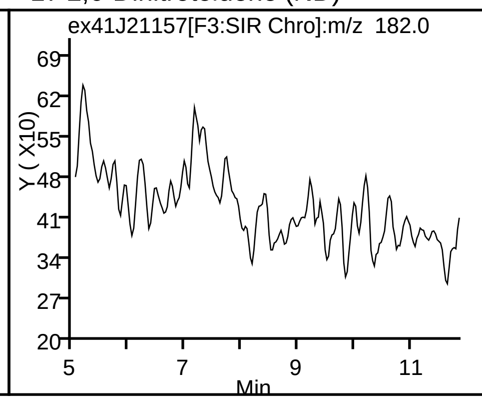
15 2,3-Dinitrotoluene (ND)



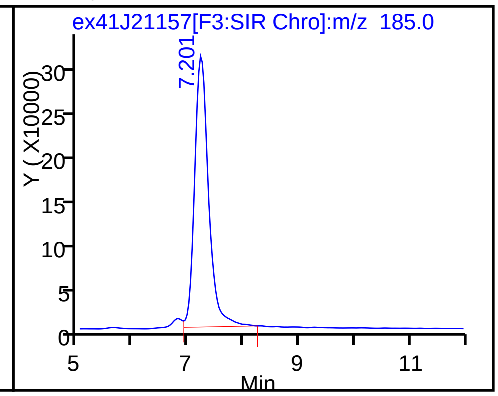
16 2-Amino-4,6-dinitrotoluene (ND)



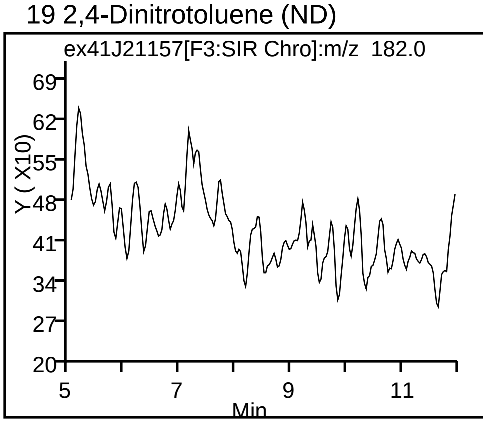
17 2,6-Dinitrotoluene (ND)



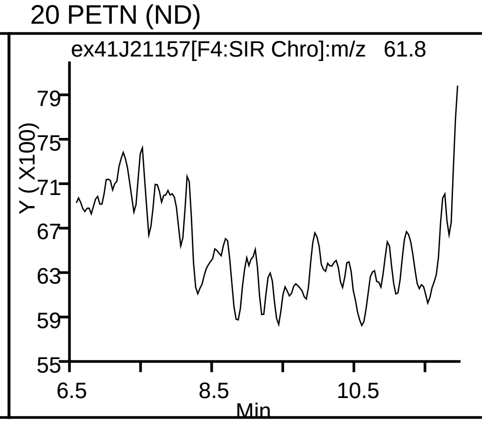
* 18 2,4-dinitrotoluene-d3



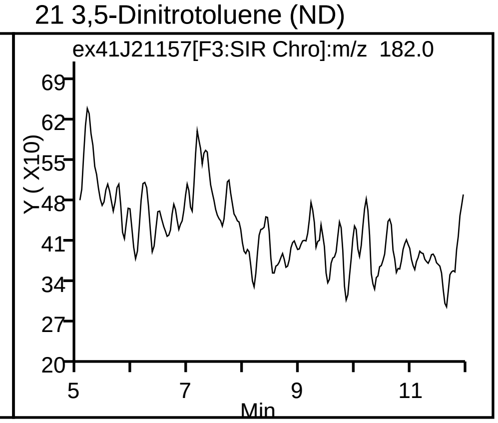
19 2,4-Dinitrotoluene (ND)



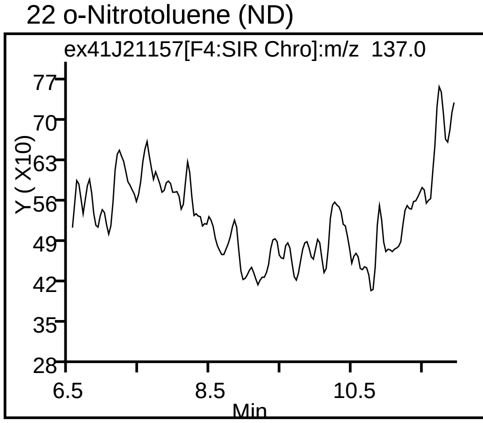
20 PETN (ND)



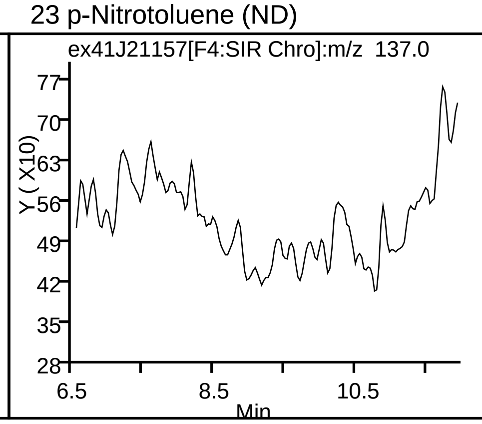
21 3,5-Dinitrotoluene (ND)



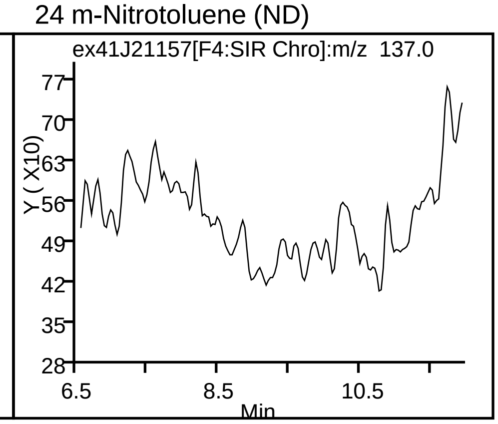
22 o-Nitrotoluene (ND)



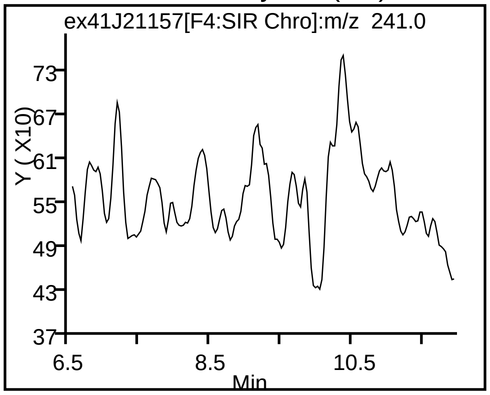
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG23 SB098   Lab Sample ID: 280-21683-15

Matrix: Solid   Lab File ID: ex41J21158.d

Analysis Method: 8321B   Date Collected: 10/14/2011 08:45

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.84(g)   Date Analyzed: 10/25/2011 14:41

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.092	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.092	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.092	0.012	0.0046
121-14-2	2,4-Dinitrotoluene	0.012	U	0.092	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.092	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.092	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.092	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.092	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.092	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.092	0.023	0.010
2691-41-0	HMX	0.012	U	0.092	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.092	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.092	0.012	0.0097
78-11-5	PETN	0.012	U Q	0.092	0.012	0.0048
121-82-4	RDX	0.012	U	0.092	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.092	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	75		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21158.d		
Lims ID:	280-21683-B-15-B	Client ID:	SB098
Inject. Date:	25-Oct-2011 14:41:56	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-15-B 280-0002644-153		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	25
Lims Batch ID:	92961	Lims Sample ID:	153
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:27:03	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		729627	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2439721	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1621826	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	592912	74.0			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		4743558	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

QC Flag Legend

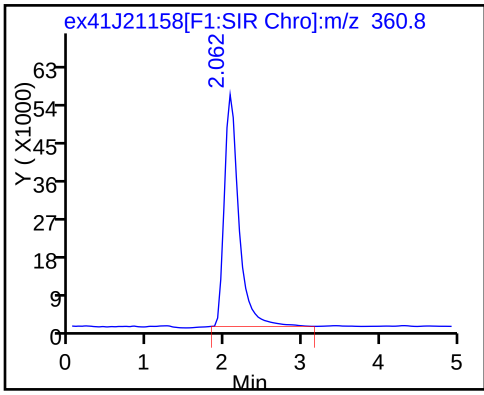
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 06:24:09 Chrom Revision: 1.2 13-Jul-2011 10:43:06

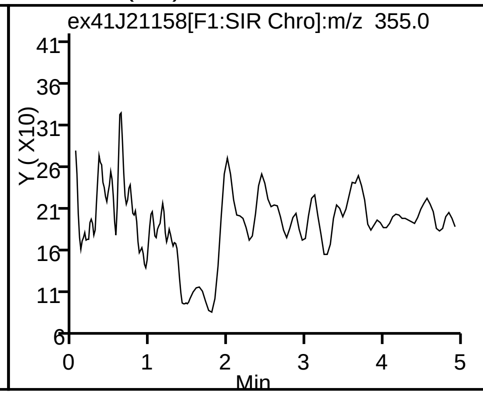
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21158.d

Injection Date:	25-Oct-2011 14:41:56	Limit Group:	LC - 8321A Expl
Client ID:	SB098	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	153
Operator ID:		Injection Vol:	40.00 ul

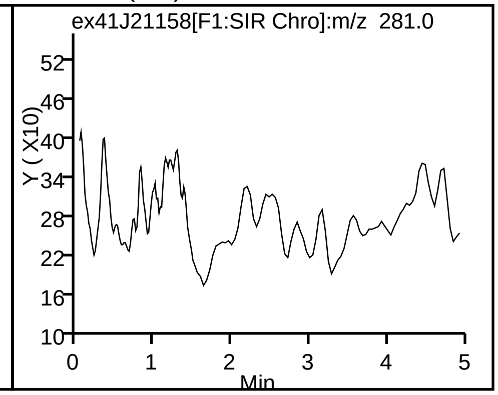
* 1 HMX-13C4



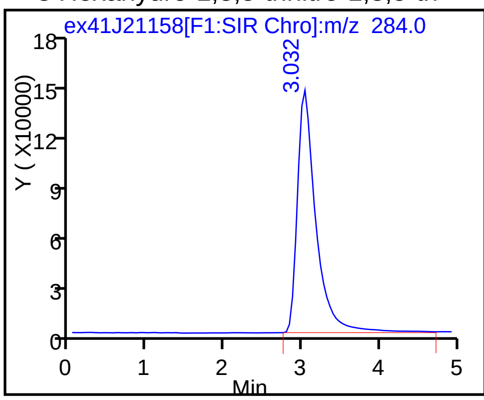
2 HMX (ND)



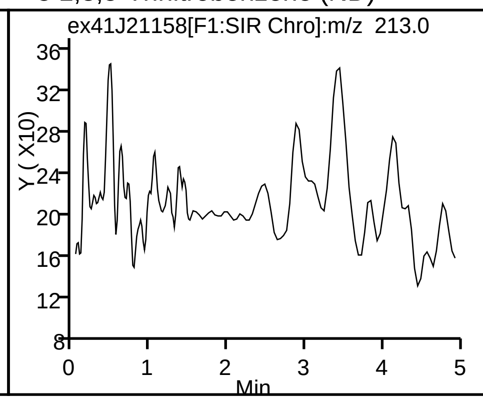
4 RDX (ND)



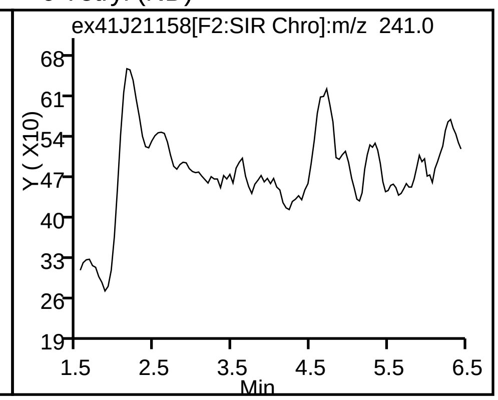
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



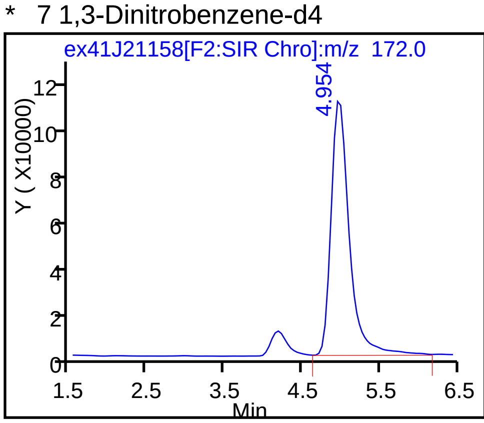
5 1,3,5-Trinitrobenzene (ND)



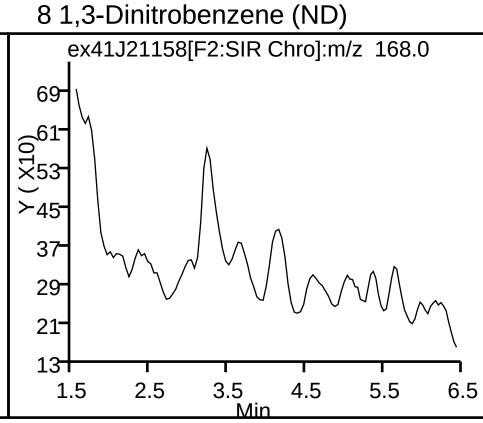
6 Tetryl (ND)



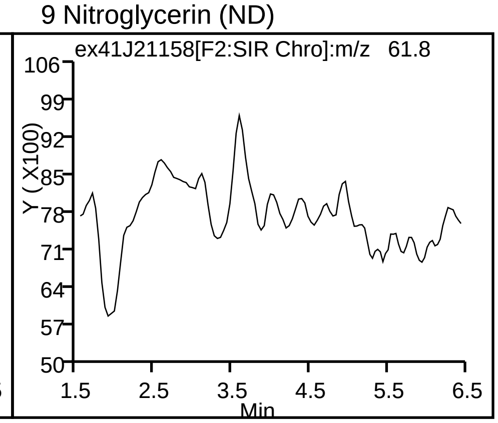
* 7 1,3-Dinitrobenzene-d4



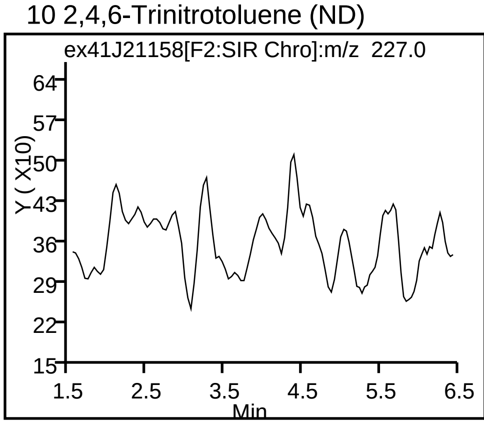
8 1,3-Dinitrobenzene (ND)



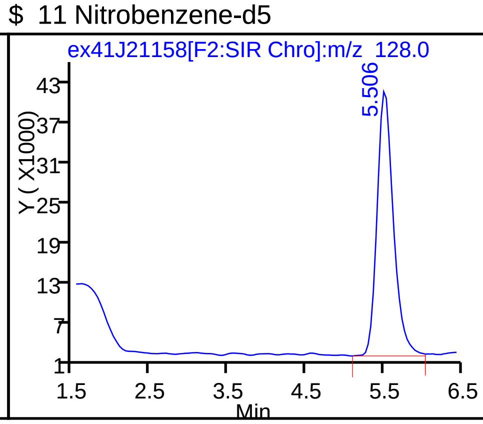
9 Nitroglycerin (ND)



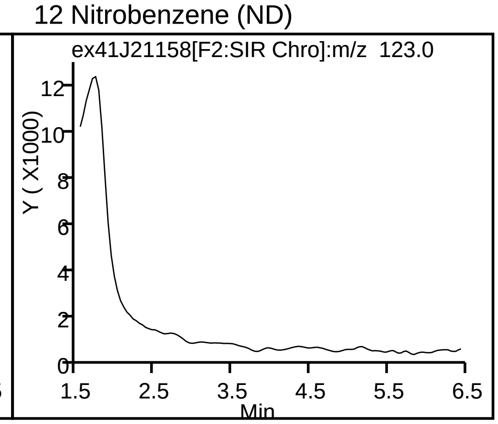
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

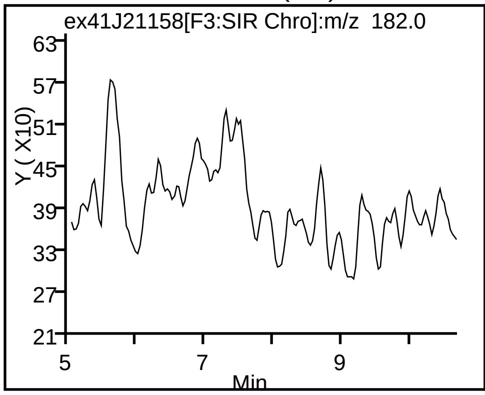


12 Nitrobenzene (ND)

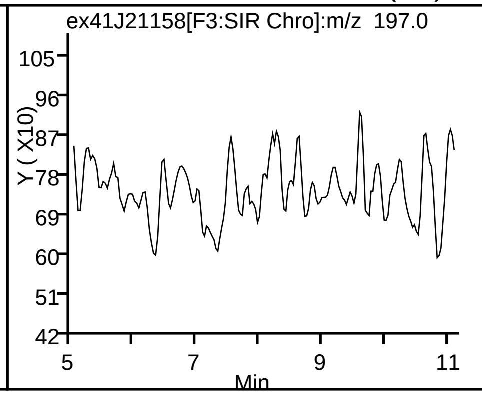


Report Date: 26-Oct-2011 06:24:09 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21158.d

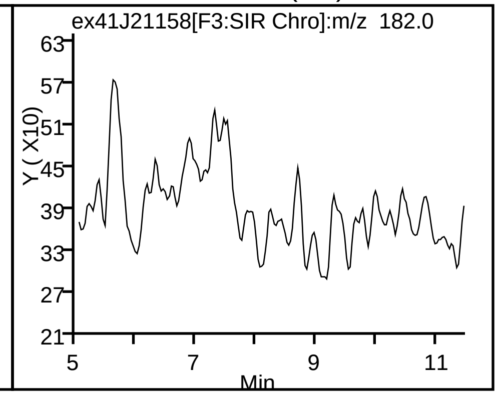
13 3,4-Dinitrotoluene (ND)



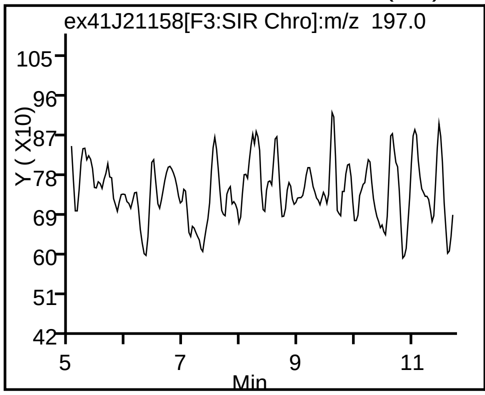
14 4-Amino-2,6-dinitrotoluene (ND)



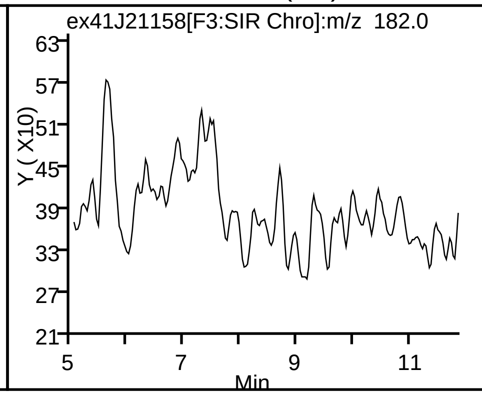
15 2,3-Dinitrotoluene (ND)



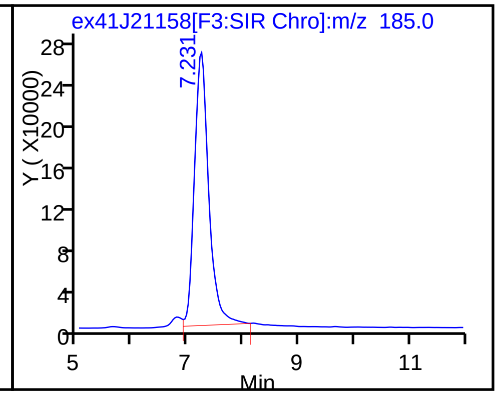
16 2-Amino-4,6-dinitrotoluene (ND)



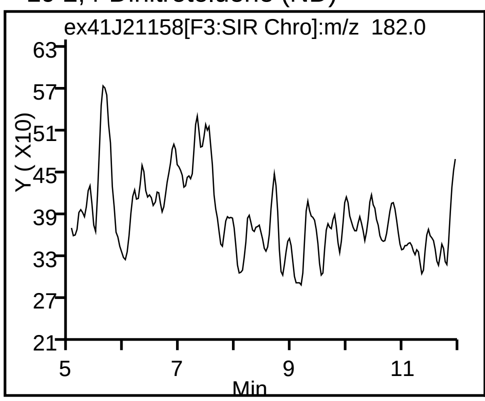
17 2,6-Dinitrotoluene (ND)



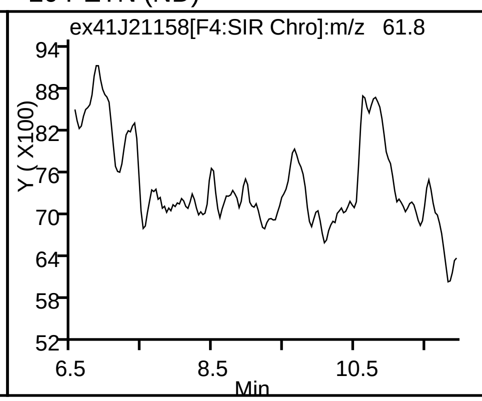
* 18 2,4-dinitrotoluene-d3



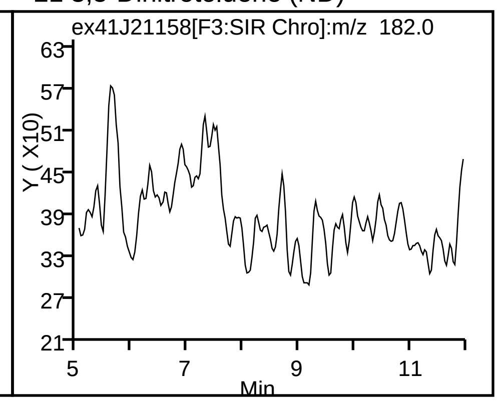
19 2,4-Dinitrotoluene (ND)



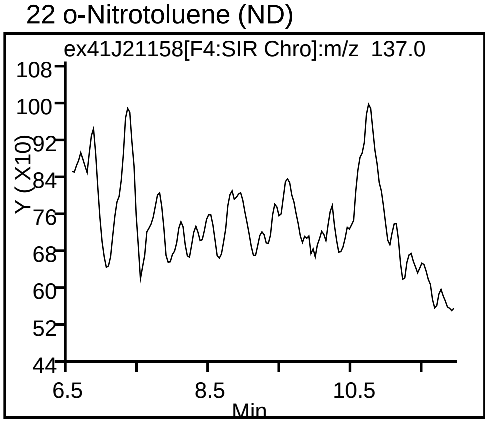
20 PETN (ND)



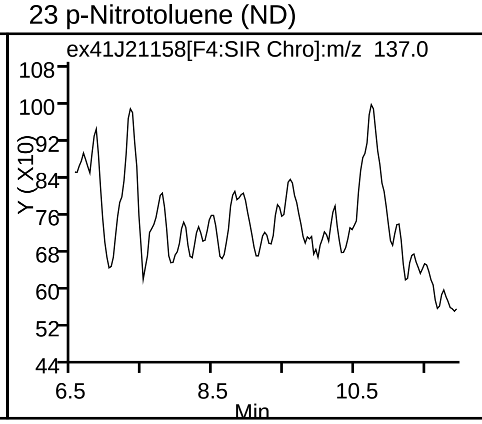
21 3,5-Dinitrotoluene (ND)



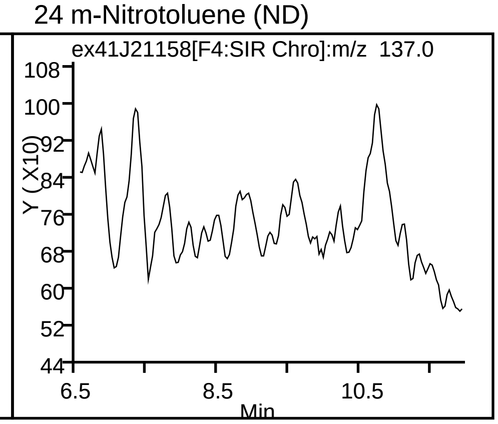
22 o-Nitrotoluene (ND)



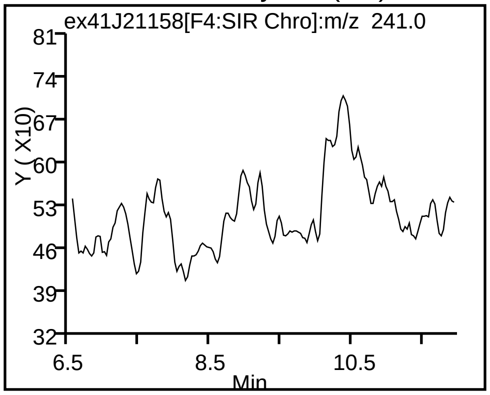
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG21 SB093   Lab Sample ID: 280-21683-16

Matrix: Solid   Lab File ID: ex41J21159.d

Analysis Method: 8321B   Date Collected: 10/14/2011 09:11

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.72(g)   Date Analyzed: 10/25/2011 14:55

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0054
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.093	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0098
78-11-5	PETN	0.012	U Q	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21159.d
Lims ID: 280-21683-A-16-C Client ID: SB093
Inject. Date: 25-Oct-2011 14:55:46 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-21683-A-16-C 280-0002644-154
Misc. Info.: ex41J21
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 26
Lims Batch ID: 92961 Lims Sample ID: 154
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m
Last Update: 26-Oct-2011 06:27:03 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		904858	250.0			
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1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
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5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1954151	258.7			
8 1,3-Dinitrobenzene										1
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2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	706903	73.2			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
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17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.201	0.000		5510480	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									1
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									1
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.319							

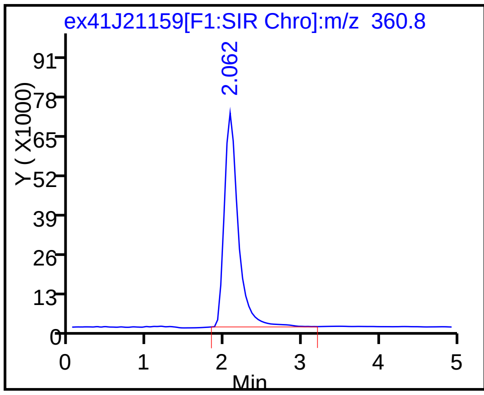
QC Flag Legend

Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 06:24:10 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21159.d		
Injection Date:	25-Oct-2011 14:55:46	Limit Group:	LC - 8321A Expl
Client ID:	SB093	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	154
Operator ID:		Injection Vol:	40.00 ul

* 1 HMX-13C4



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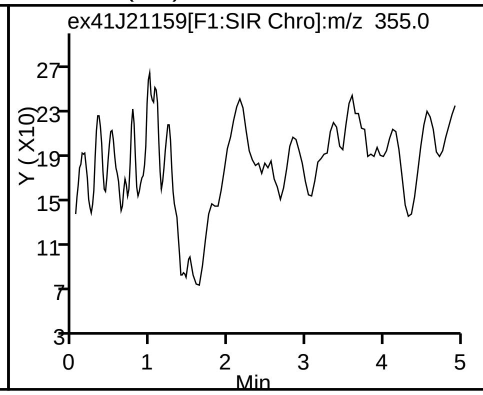
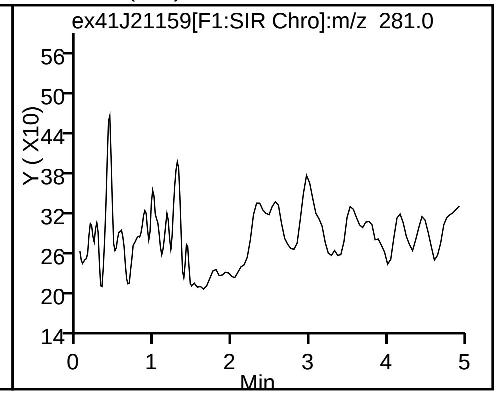
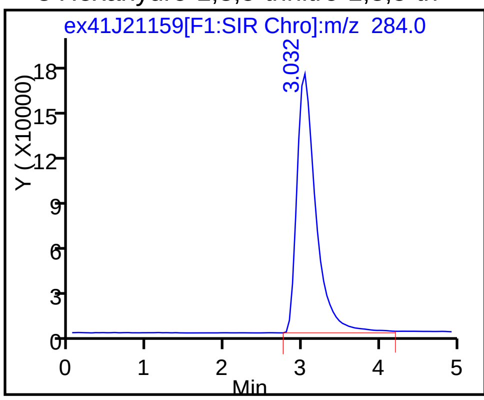


4 RDX (ND)



* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



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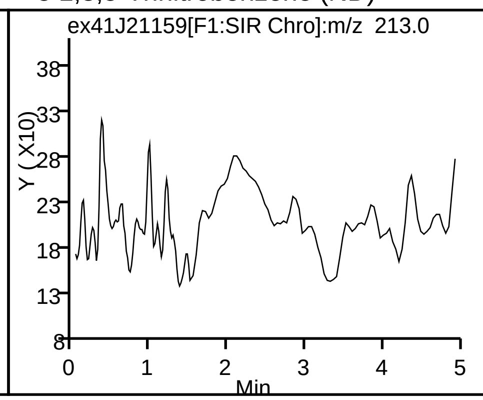
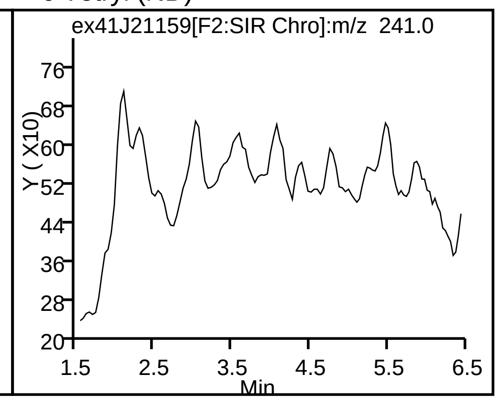
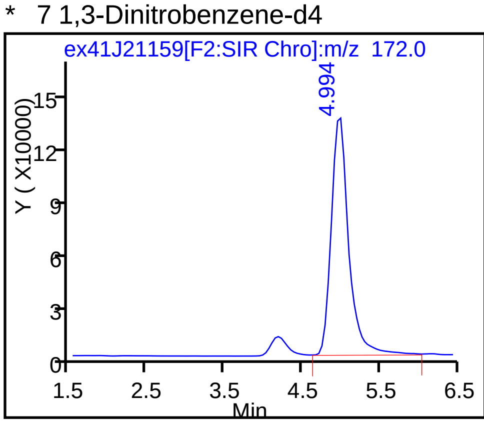


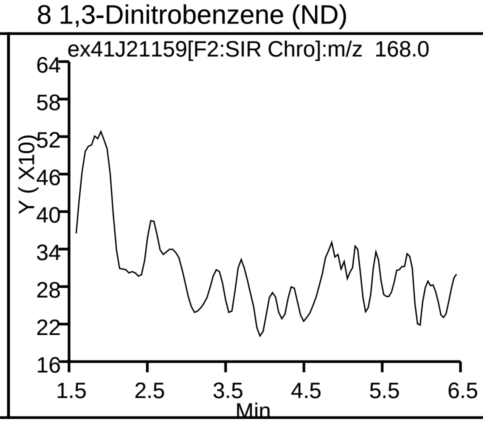
6 Tetryl (ND)



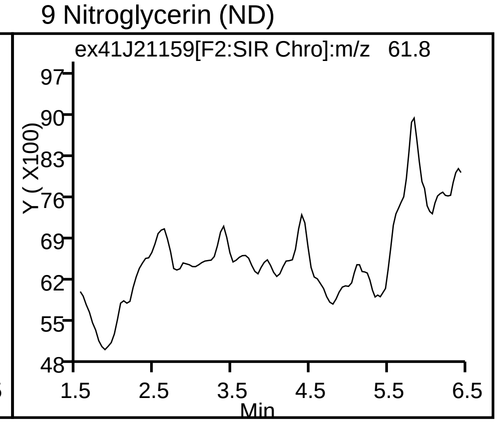
* 7 1,3-Dinitrobenzene-d4



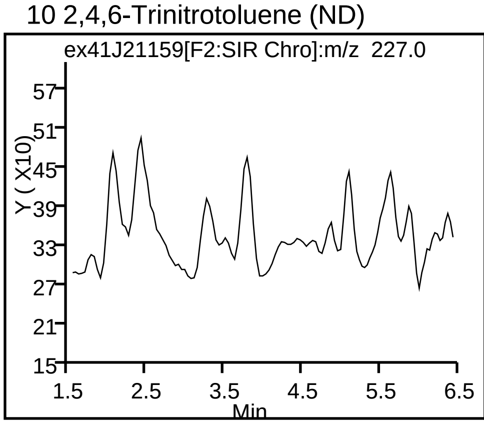
8 1,3-Dinitrobenzene (ND)



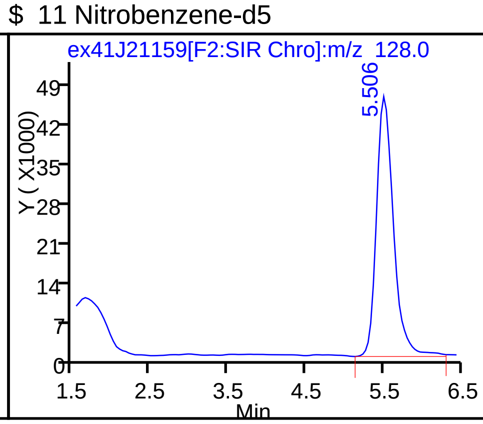
9 Nitroglycerin (ND)



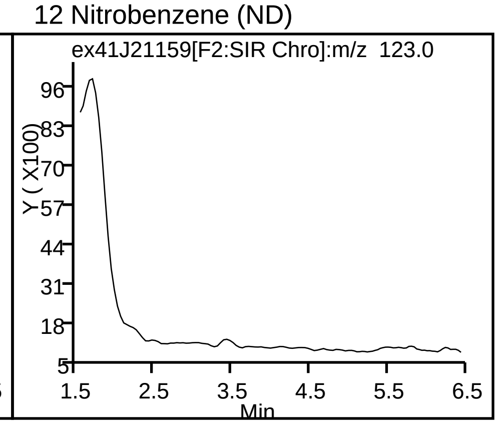
10 2,4,6-Trinitrotoluene (ND)



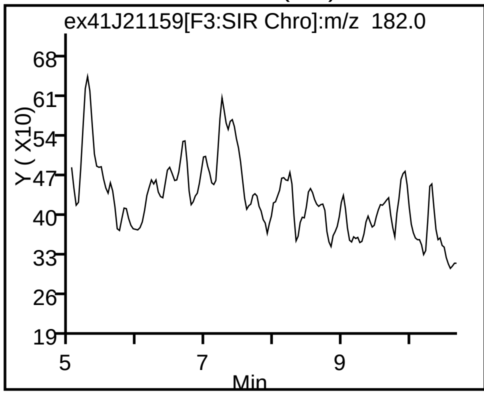
$ 11 Nitrobenzene-d5



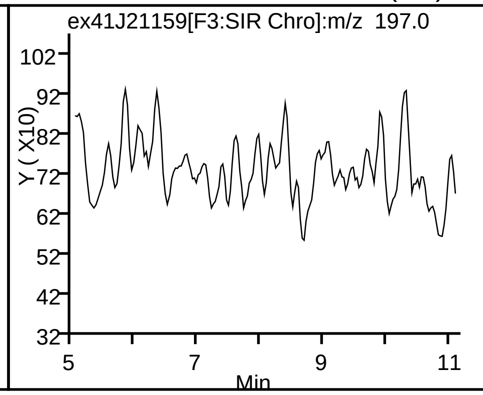
12 Nitrobenzene (ND)



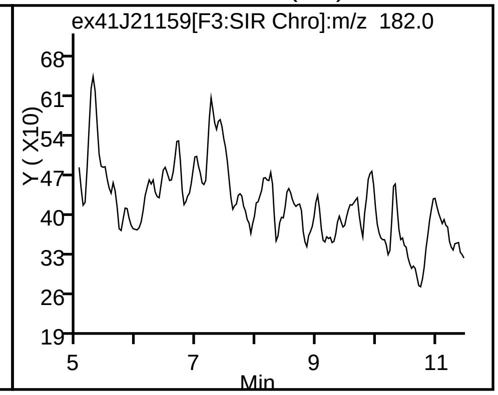
13 3,4-Dinitrotoluene (ND)



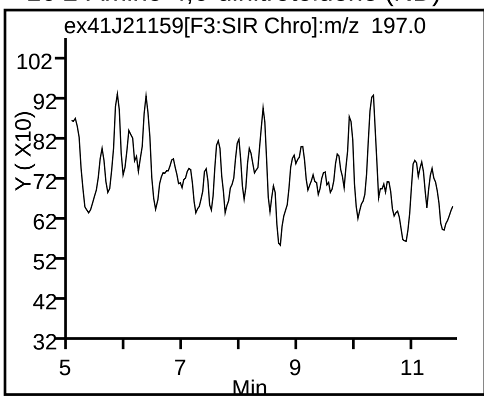
14 4-Amino-2,6-dinitrotoluene (ND)



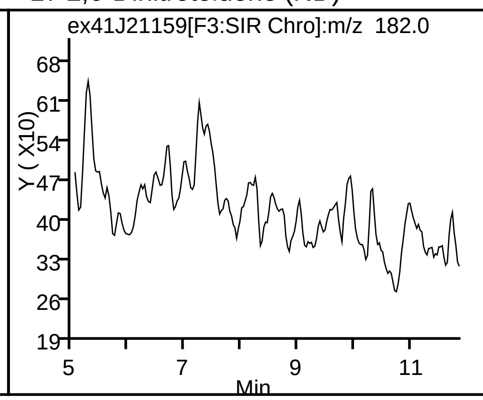
15 2,3-Dinitrotoluene (ND)



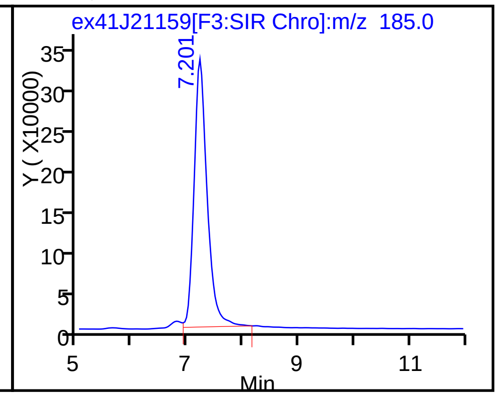
16 2-Amino-4,6-dinitrotoluene (ND)



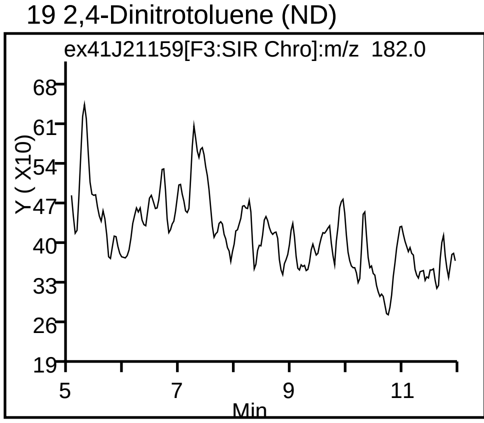
17 2,6-Dinitrotoluene (ND)



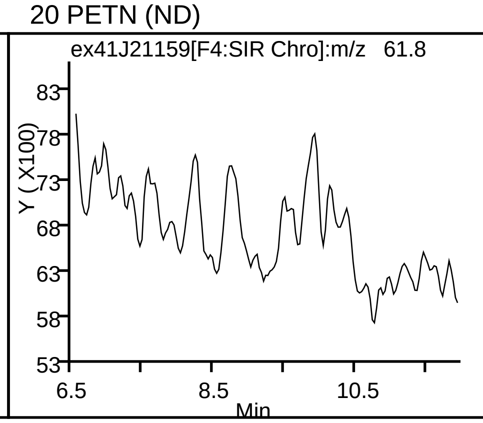
* 18 2,4-dinitrotoluene-d3



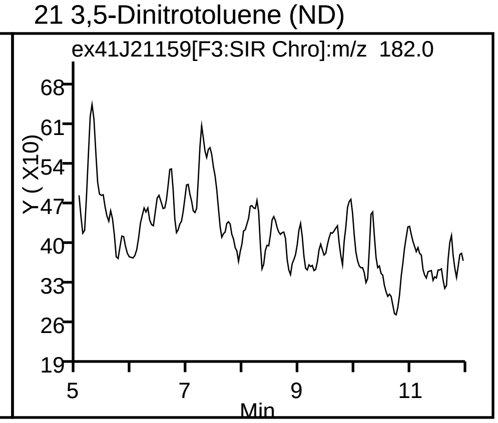
19 2,4-Dinitrotoluene (ND)



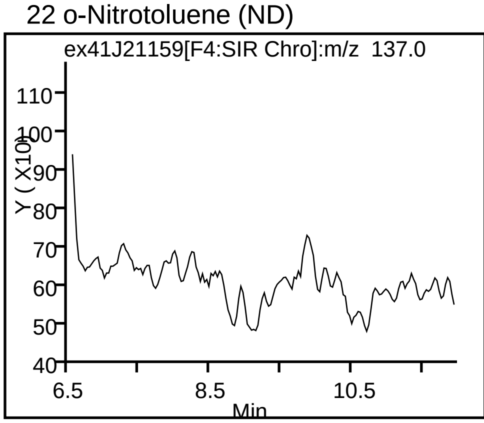
20 PETN (ND)



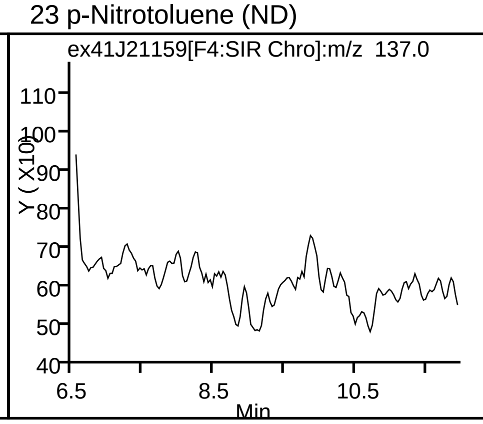
21 3,5-Dinitrotoluene (ND)



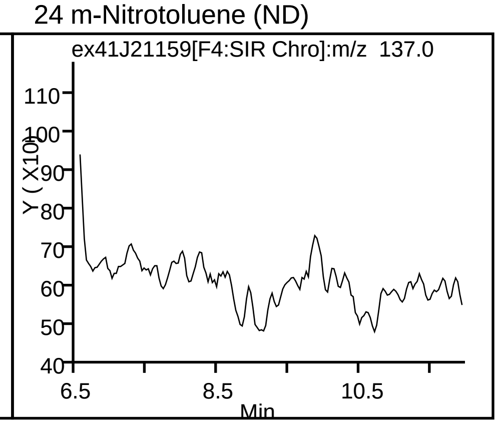
22 o-Nitrotoluene (ND)



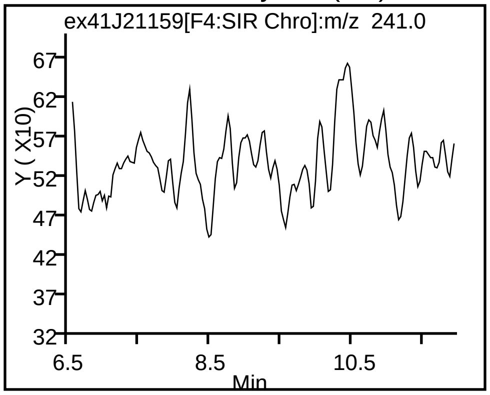
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG24 SB100   Lab Sample ID: 280-21683-17

Matrix: Solid   Lab File ID: ex41J21160.d

Analysis Method: 8321B   Date Collected: 10/14/2011 09:27

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.37(g)   Date Analyzed: 10/25/2011 15:09

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U Q	0.096	0.012	0.0050
121-82-4	RDX	0.012	U	0.096	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21160.d		
Lims ID:	280-21683-B-17-B	Client ID:	SB100
Inject. Date:	25-Oct-2011 15:09:20	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-17-B 280-0002644-155		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	27
Lims Batch ID:	92961	Lims Sample ID:	155
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:27:03	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		782586	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3058561	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1773482	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	717710	81.9			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4917317	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

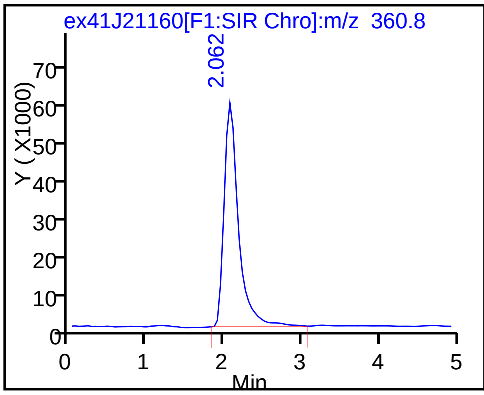
QC Flag Legend

Processing Flags
1 - Missing Peaks

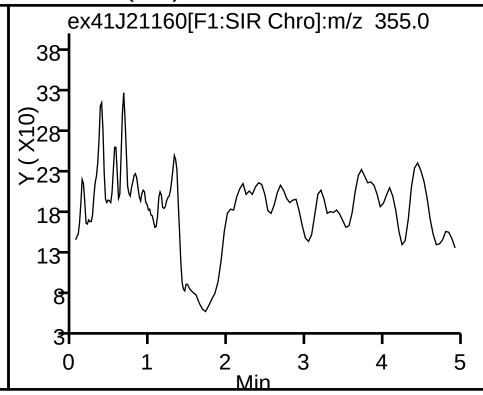
Report Date: 26-Oct-2011 06:24:10 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21160.d

Injection Date:	25-Oct-2011 15:09:20	Limit Group:	LC - 8321A Expl
Client ID:	SB100	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	155
Operator ID:		Injection Vol:	40.00 ul

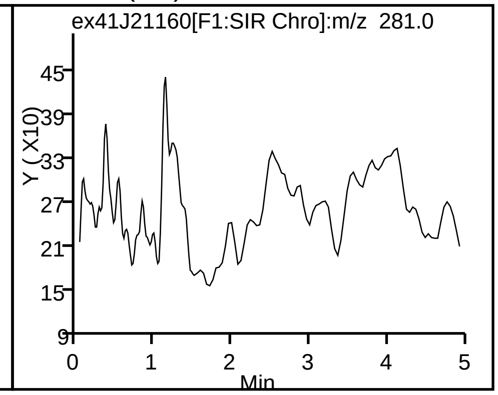
* 1 HMX-13C4



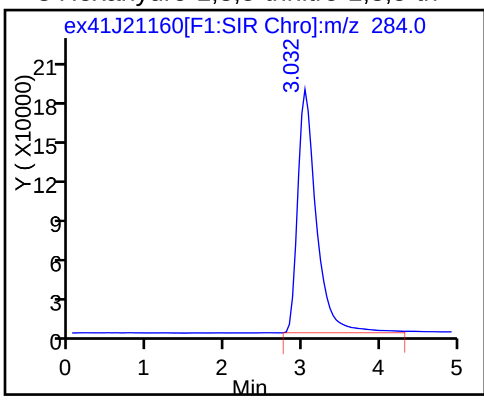
2 HMX (ND)



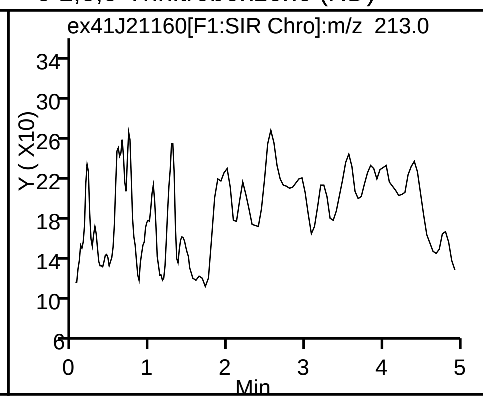
4 RDX (ND)



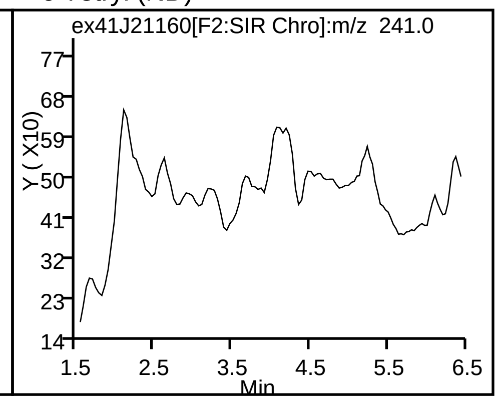
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



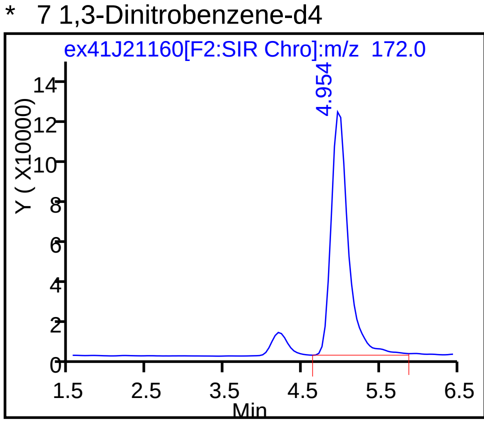
5 1,3,5-Trinitrobenzene (ND)



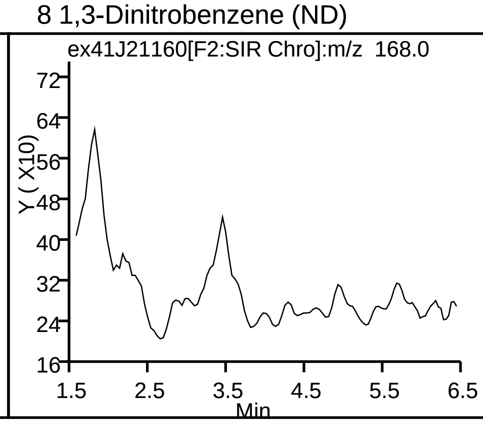
6 Tetryl (ND)



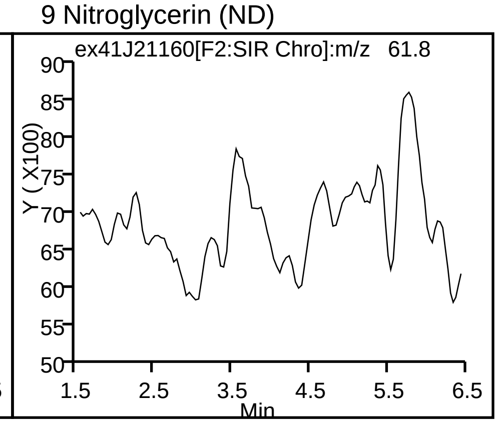
* 7 1,3-Dinitrobenzene-d4



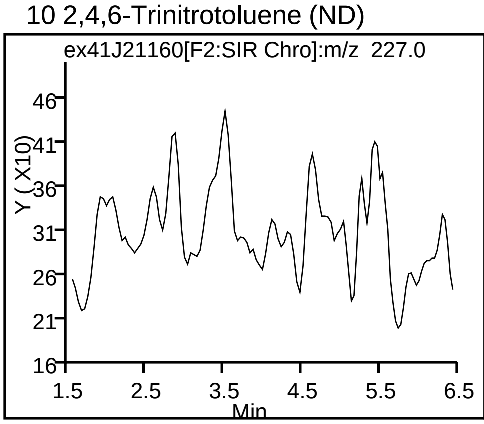
8 1,3-Dinitrobenzene (ND)



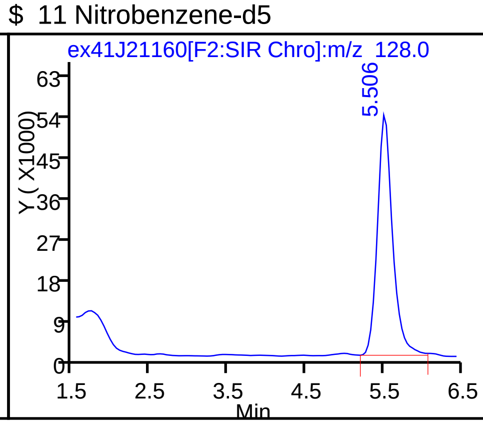
9 Nitroglycerin (ND)



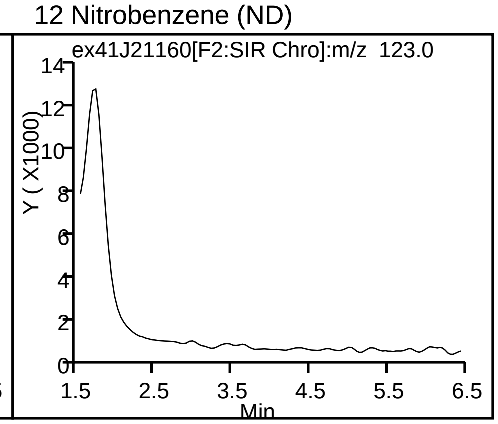
10 2,4,6-Trinitrotoluene (ND)



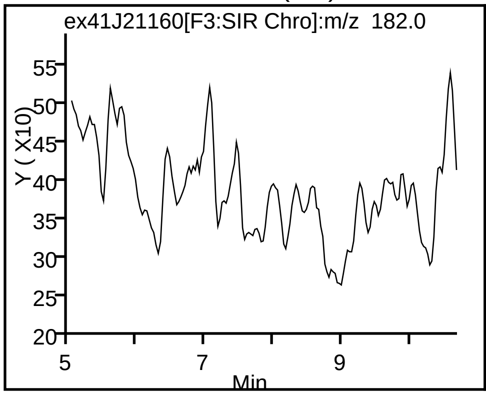
$ 11 Nitrobenzene-d5



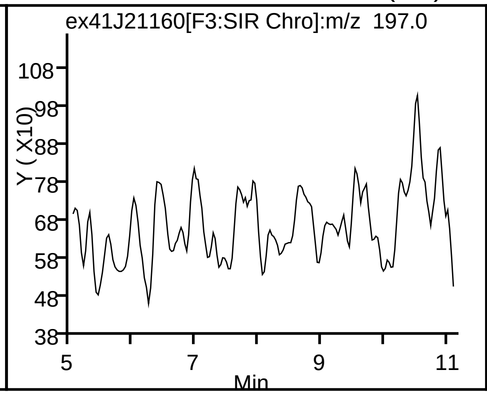
12 Nitrobenzene (ND)



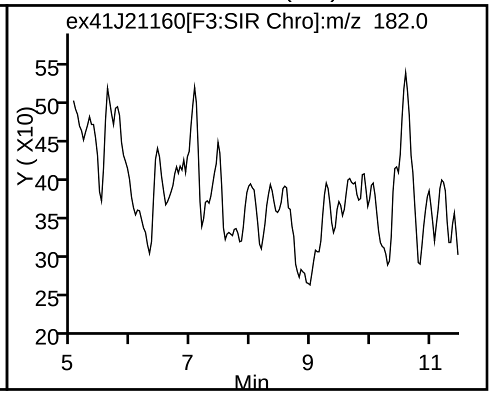
13 3,4-Dinitrotoluene (ND)



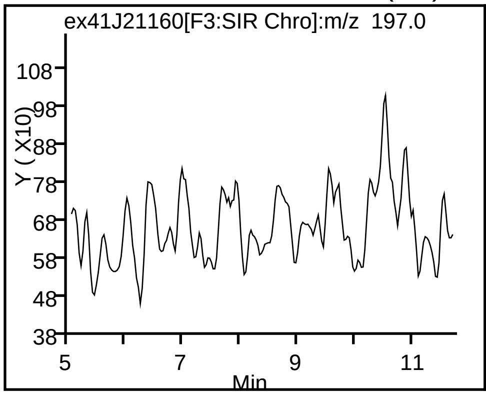
14 4-Amino-2,6-dinitrotoluene (ND)



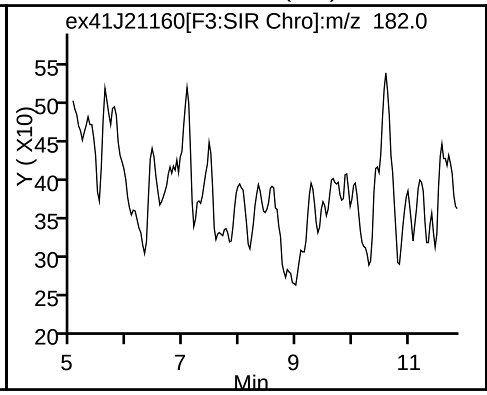
15 2,3-Dinitrotoluene (ND)



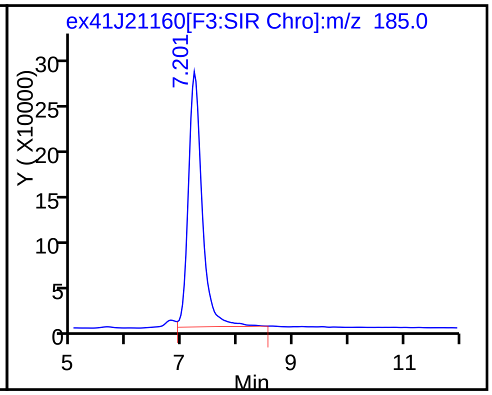
16 2-Amino-4,6-dinitrotoluene (ND)



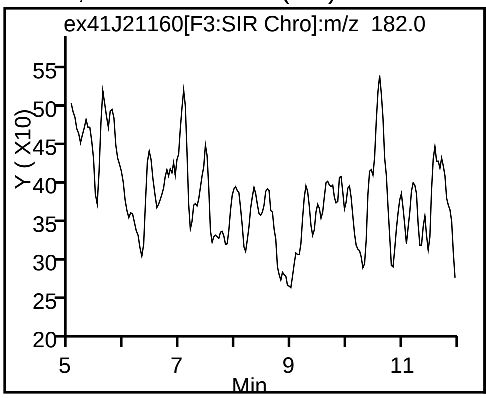
17 2,6-Dinitrotoluene (ND)



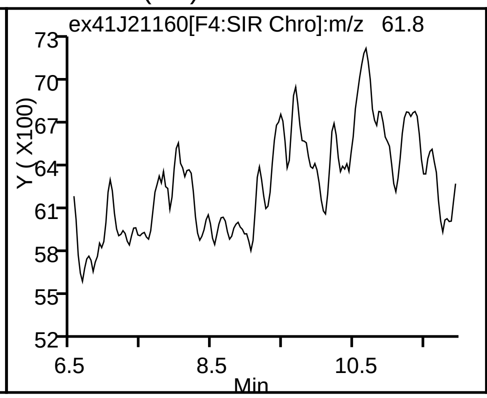
* 18 2,4-dinitrotoluene-d3



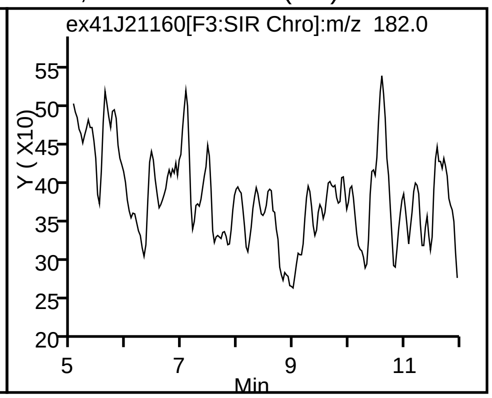
19 2,4-Dinitrotoluene (ND)



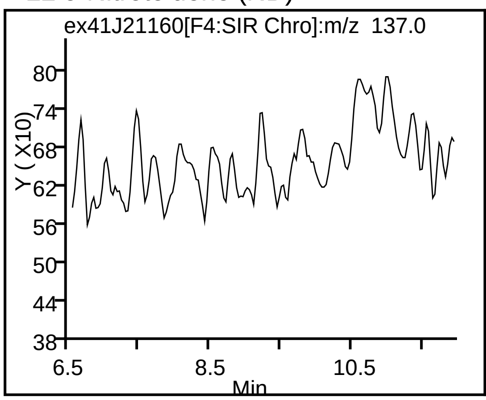
20 PETN (ND)



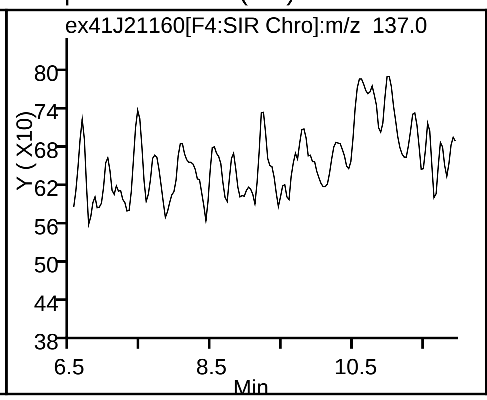
21 3,5-Dinitrotoluene (ND)



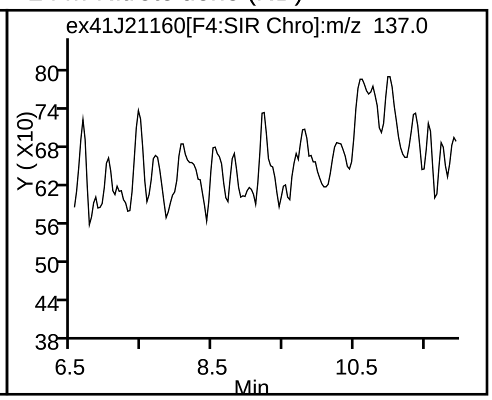
22 o-Nitrotoluene (ND)



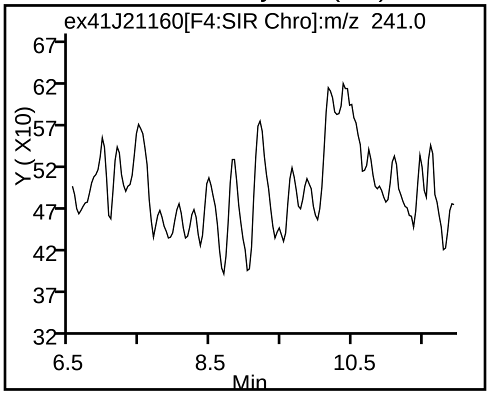
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG21 SB092 | Lab Sample ID: 280-21683-18

Matrix: Solid | Lab File ID: ex41J21161.d

Analysis Method: 8321B | Date Collected: 10/14/2011 09:05

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.07(g) | Date Analyzed: 10/25/2011 15:22

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U Q	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	86		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21161.d		
Lims ID:	280-21683-A-18-C	Client ID:	SB092
Inject. Date:	25-Oct-2011 15:22:54	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-18-C 280-0002644-156		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	28
Lims Batch ID:	92961	Lims Sample ID:	156
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:27:03	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	26-Oct-2011 06:09:51

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		854142	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2913591	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1633427	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	681622	84.5			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		6027463	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										
4	137.0		8.254							
23 p-Nitrotoluene										
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

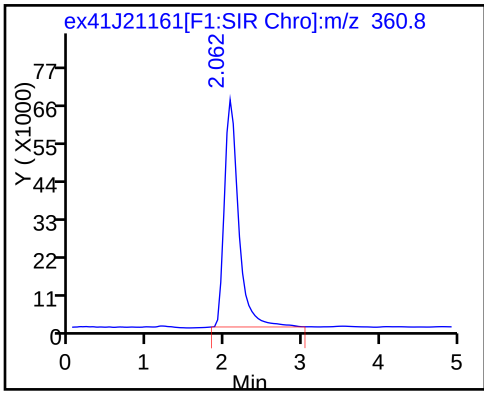
QC Flag Legend

Processing Flags
1 - Missing Peaks

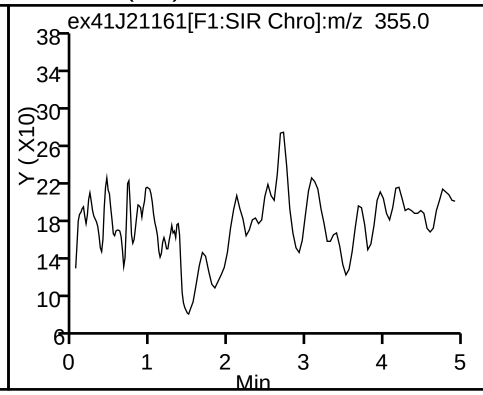
Report Date: 26-Oct-2011 06:24:11 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21161.d

Injection Date:	25-Oct-2011 15:22:54	Limit Group:	LC - 8321A Expl
Client ID:	SB092	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	156
Operator ID:		Injection Vol:	40.00 ul

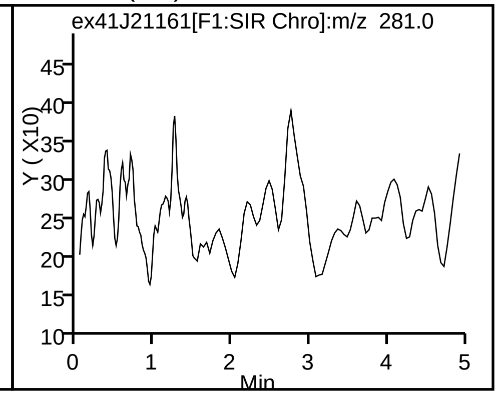
* 1 HMX-13C4



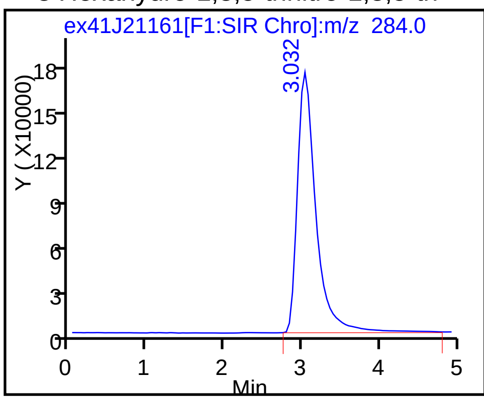
2 HMX (ND)



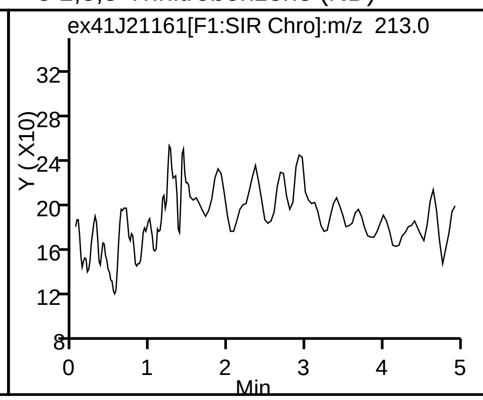
4 RDX (ND)



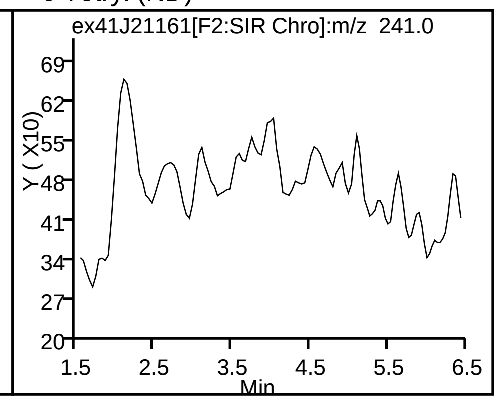
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



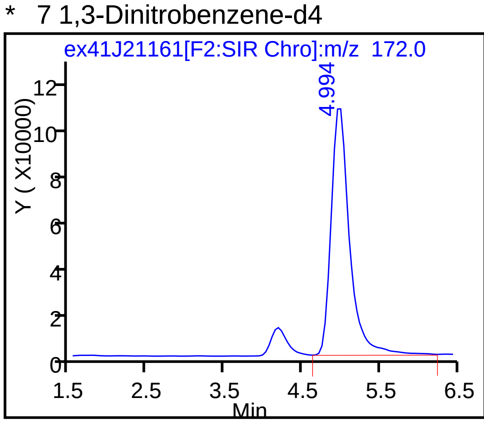
5 1,3,5-Trinitrobenzene (ND)



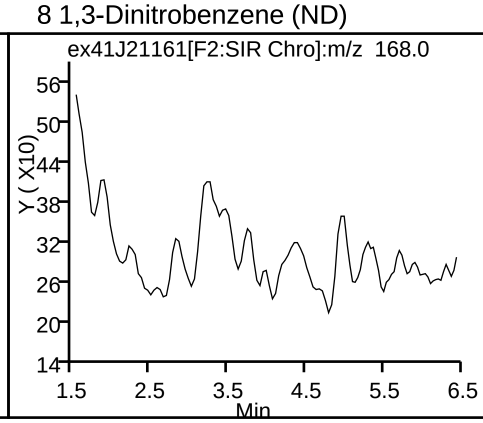
6 Tetryl (ND)



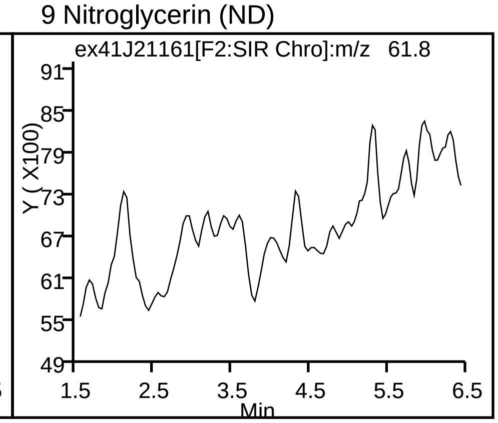
* 7 1,3-Dinitrobenzene-d4



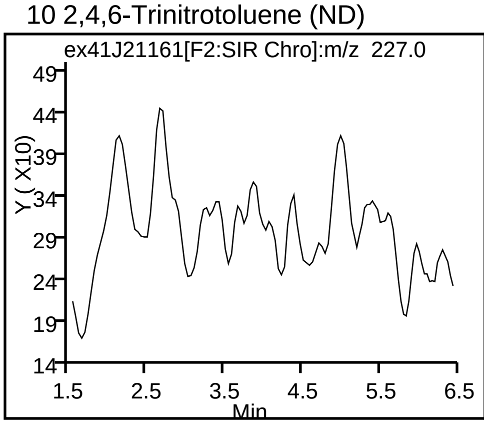
8 1,3-Dinitrobenzene (ND)



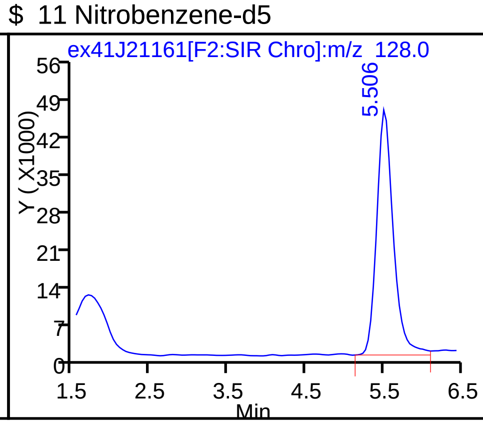
9 Nitroglycerin (ND)



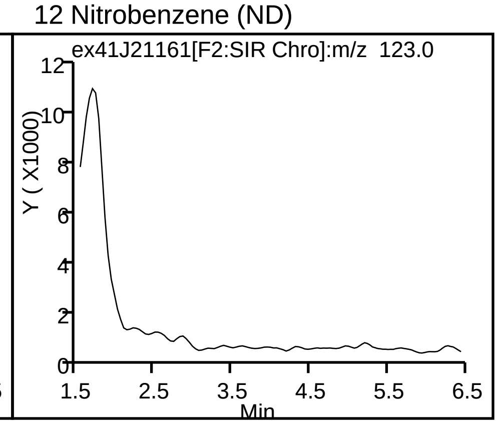
10 2,4,6-Trinitrotoluene (ND)



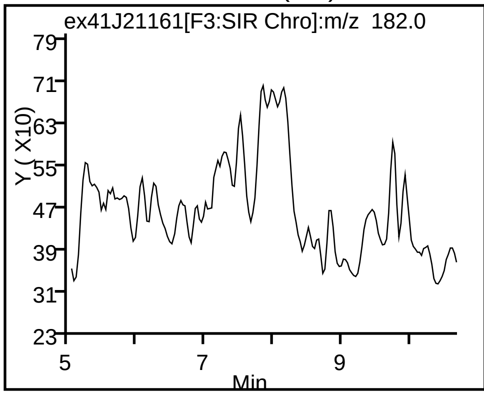
$ 11 Nitrobenzene-d5



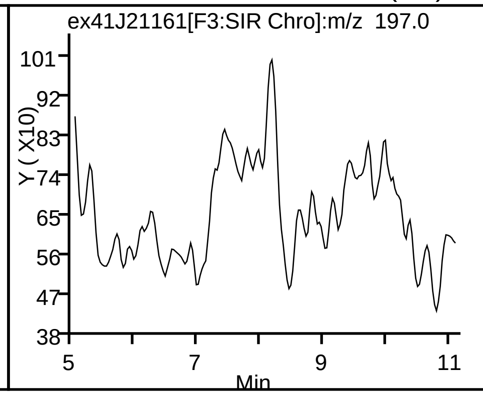
12 Nitrobenzene (ND)



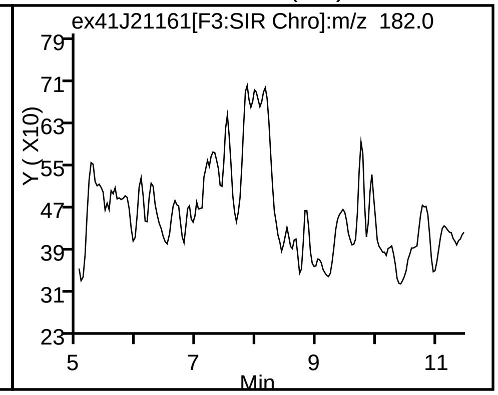
13 3,4-Dinitrotoluene (ND)



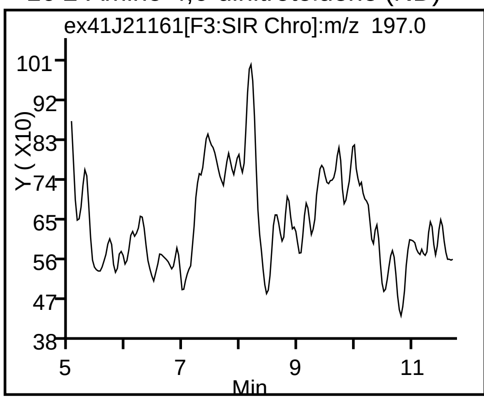
14 4-Amino-2,6-dinitrotoluene (ND)



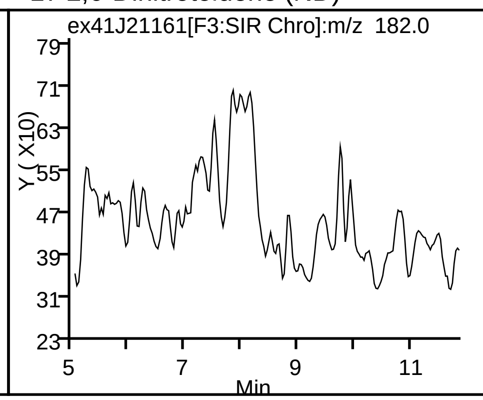
15 2,3-Dinitrotoluene (ND)



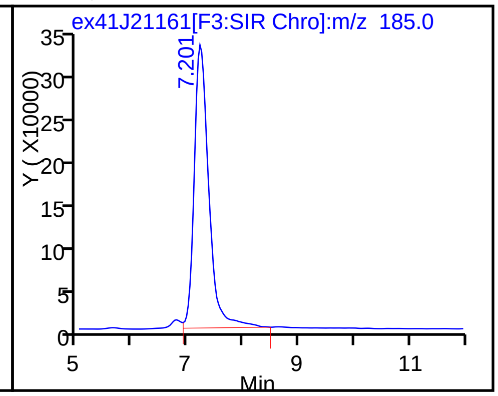
16 2-Amino-4,6-dinitrotoluene (ND)



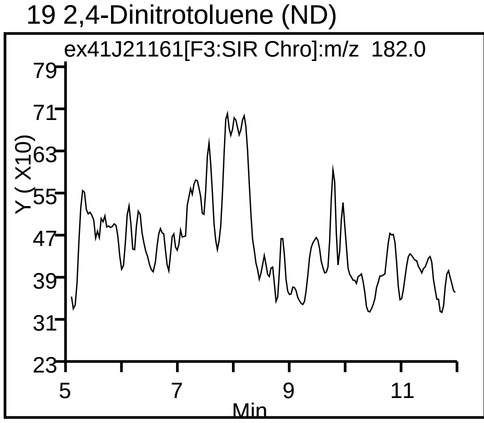
17 2,6-Dinitrotoluene (ND)



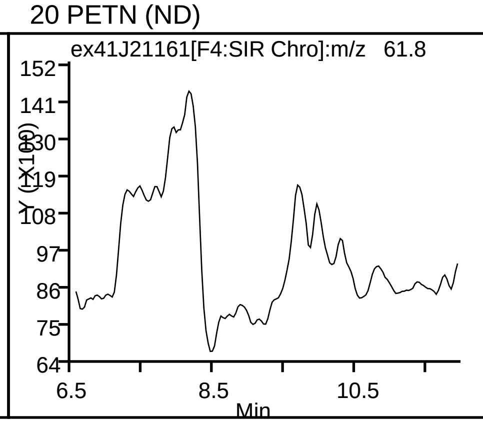
* 18 2,4-dinitrotoluene-d3



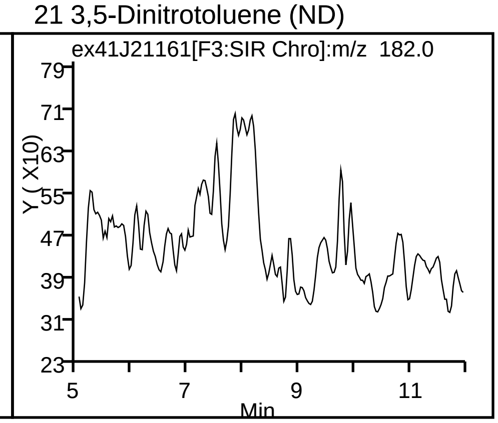
19 2,4-Dinitrotoluene (ND)



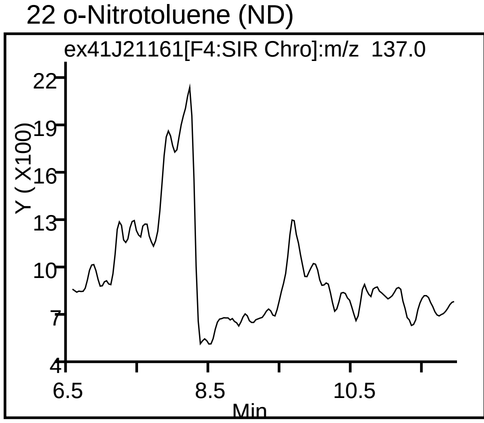
20 PETN (ND)



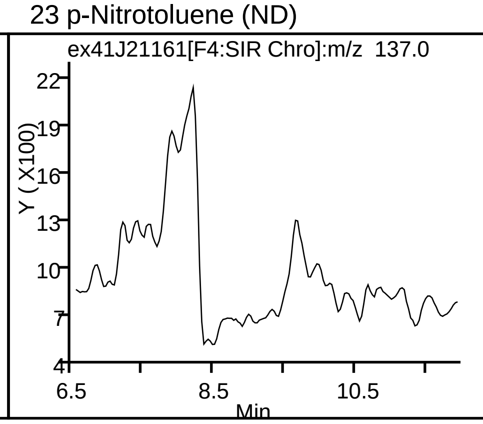
21 3,5-Dinitrotoluene (ND)



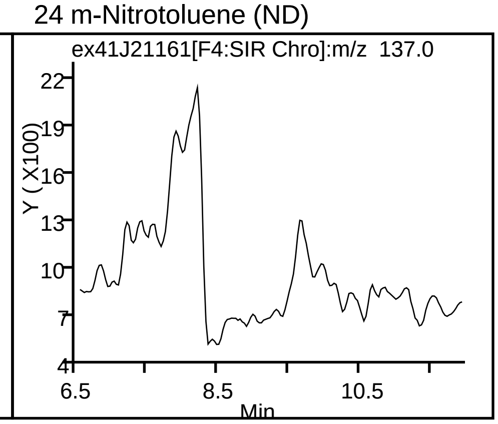
22 o-Nitrotoluene (ND)



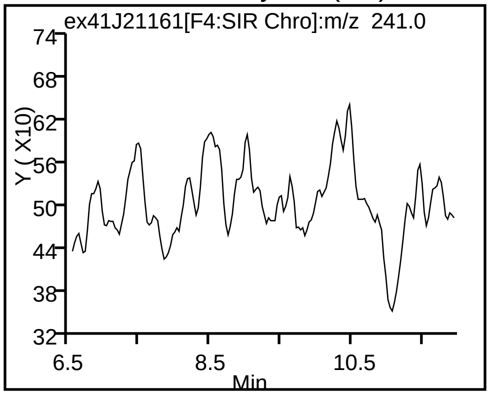
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG35 SB123 Lab Sample ID: 280-21683-19

Matrix: Solid Lab File ID: ex41J21165.d

Analysis Method: 8321B Date Collected: 10/14/2011 10:29

Extraction Method: 8330B Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.08(g) Date Analyzed: 10/25/2011 16:17

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21165.d		
Lims ID:	280-21683-A-19-C	Client ID:	SB123
Inject. Date:	25-Oct-2011 16:17:29	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-19-C 280-0002644-160		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	31
Lims Batch ID:	92961	Lims Sample ID:	160
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:13	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		944492	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2949647	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1875699	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	729464	78.7			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.837							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.201	0.000		5335430	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.292							
20	PETN									
4	61.8		7.737							
21	3,5-Dinitrotoluene									
3	182.0		7.869							
22	o-Nitrotoluene									
4	137.0		8.223							
23	p-Nitrotoluene									
4	137.0		8.800							
24	m-Nitrotoluene									
4	137.0	9.408	9.468	-0.060	1.000	13084	1.94			
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

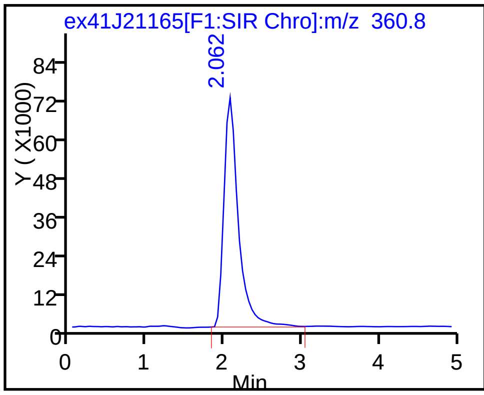
QC Flag Legend

Processing Flags
1 - Missing Peaks

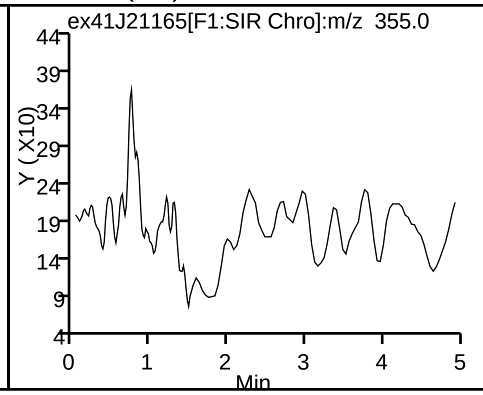
Report Date: 26-Oct-2011 06:24:14 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21165.d

Injection Date:	25-Oct-2011 16:17:29	Limit Group:	LC - 8321A Expl
Client ID:	SB123	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	160
Operator ID:		Injection Vol:	40.00 ul

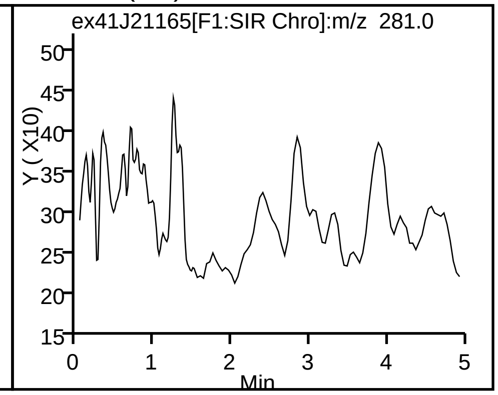
* 1 HMX-13C4



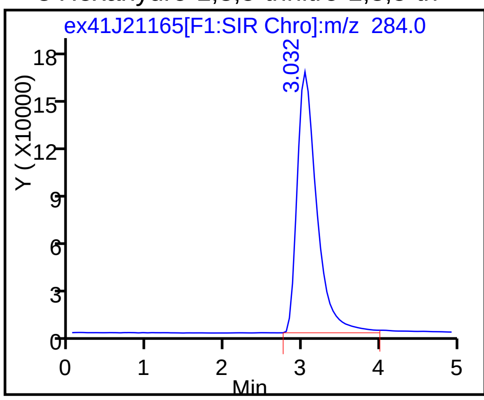
2 HMX (ND)



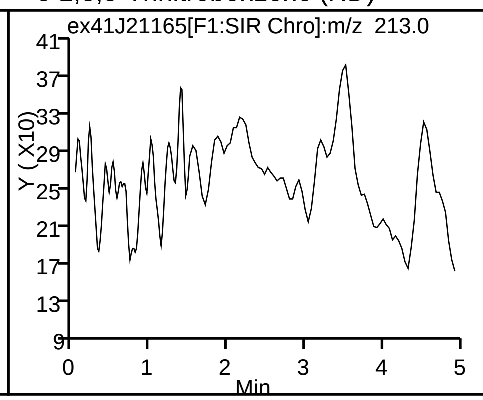
4 RDX (ND)



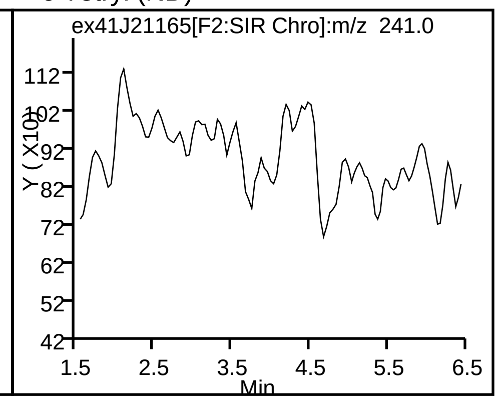
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



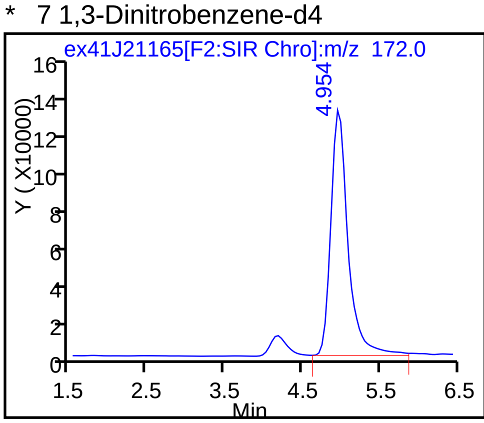
5 1,3,5-Trinitrobenzene (ND)



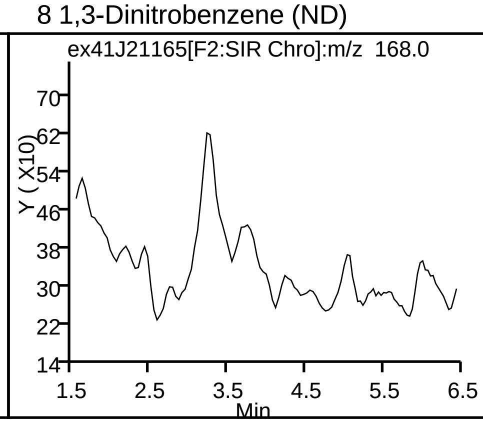
6 Tetryl (ND)



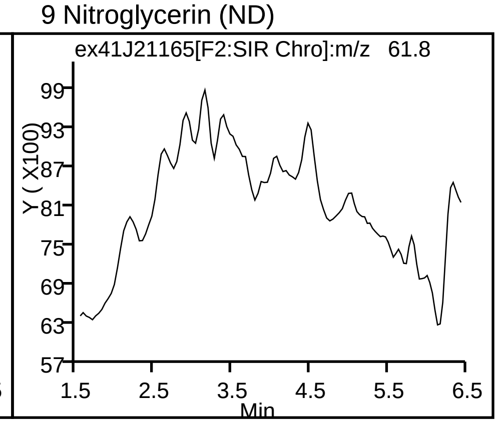
* 7 1,3-Dinitrobenzene-d4



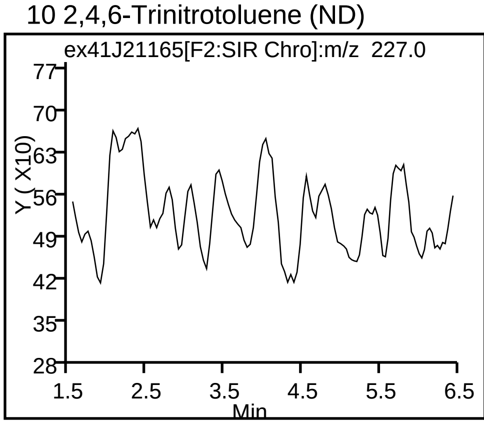
8 1,3-Dinitrobenzene (ND)



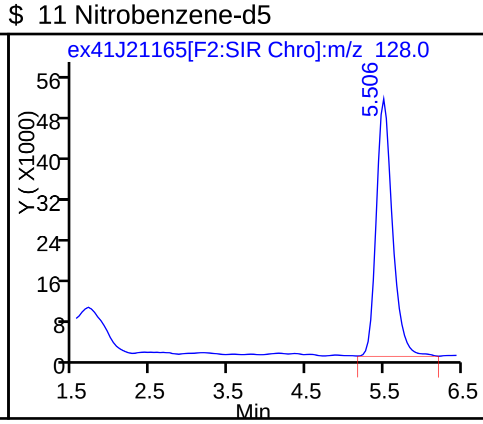
9 Nitroglycerin (ND)



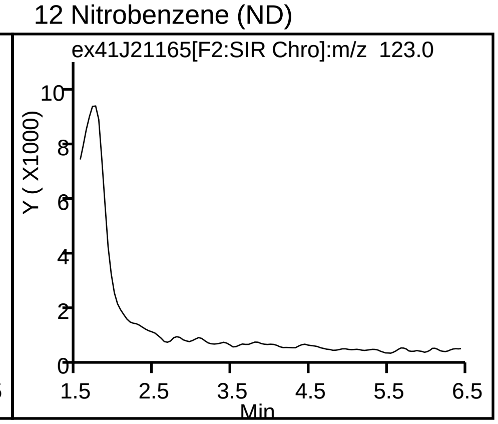
10 2,4,6-Trinitrotoluene (ND)



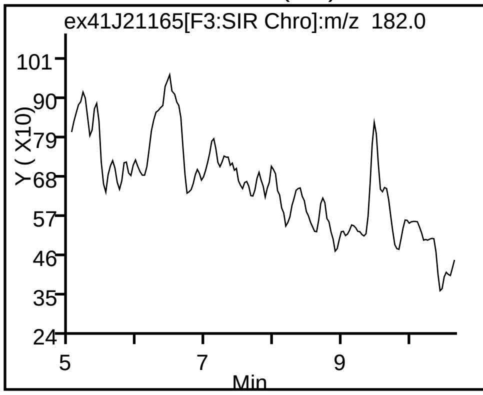
$ 11 Nitrobenzene-d5



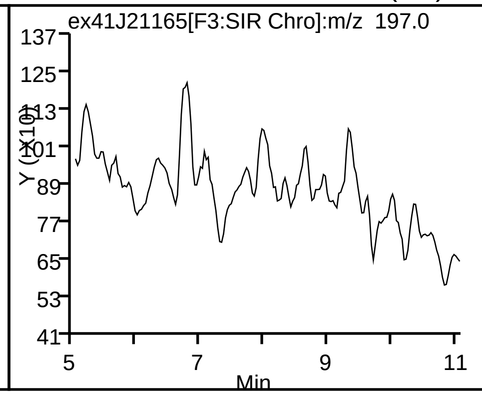
12 Nitrobenzene (ND)



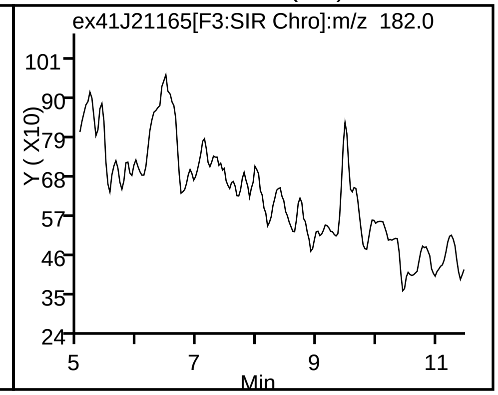
13 3,4-Dinitrotoluene (ND)



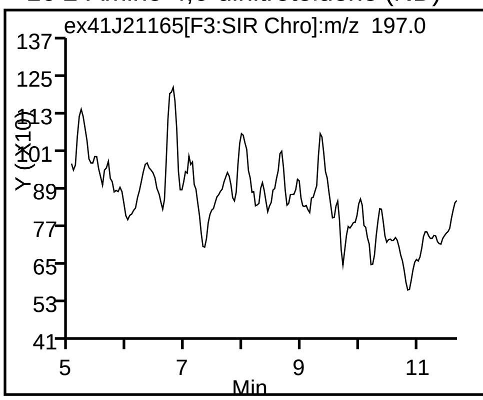
14 4-Amino-2,6-dinitrotoluene (ND)



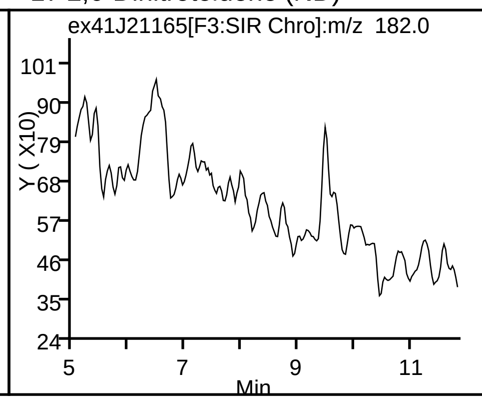
15 2,3-Dinitrotoluene (ND)



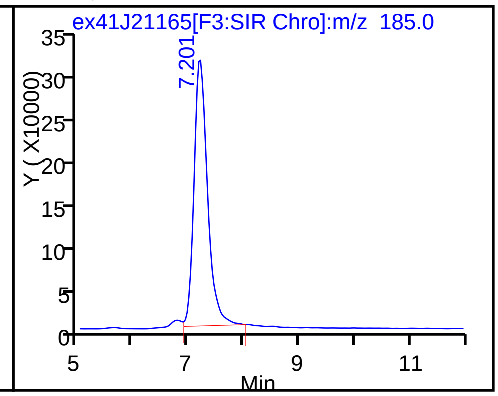
16 2-Amino-4,6-dinitrotoluene (ND)



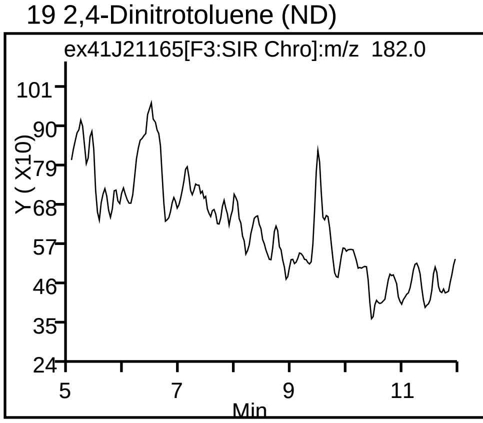
17 2,6-Dinitrotoluene (ND)



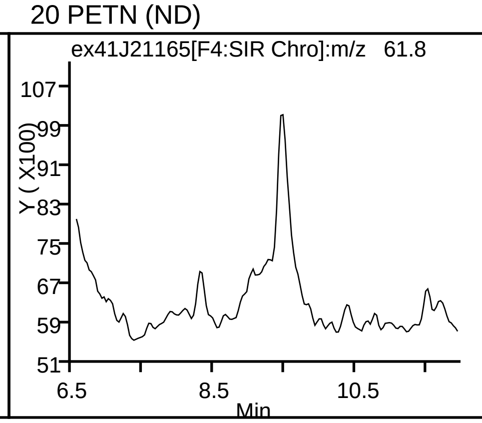
* 18 2,4-dinitrotoluene-d3



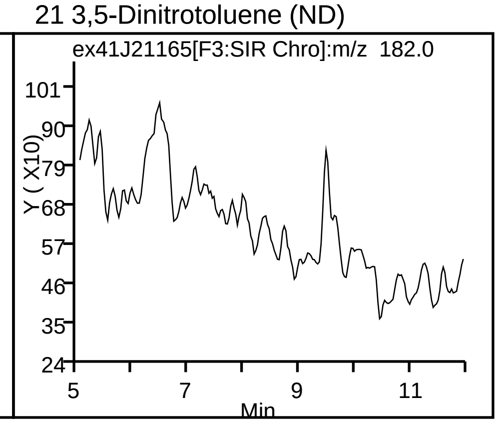
19 2,4-Dinitrotoluene (ND)



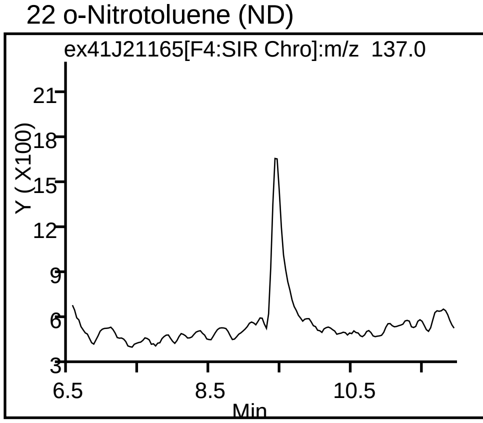
20 PETN (ND)



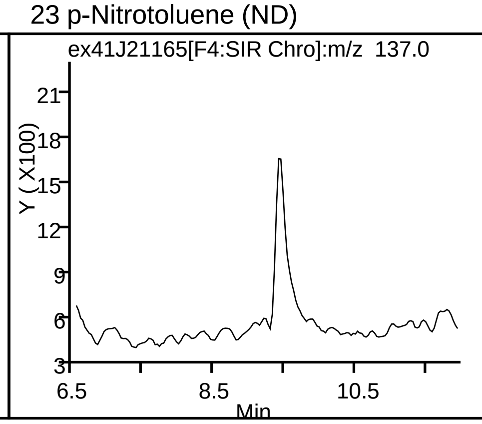
21 3,5-Dinitrotoluene (ND)



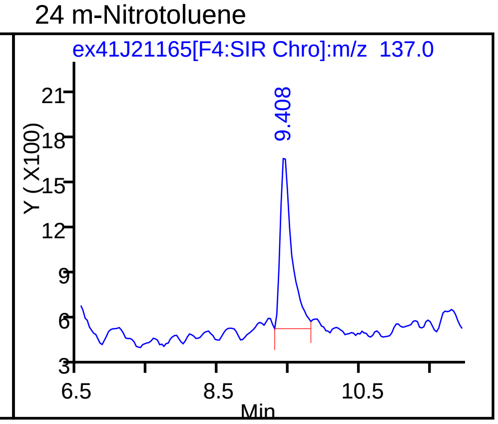
22 o-Nitrotoluene (ND)



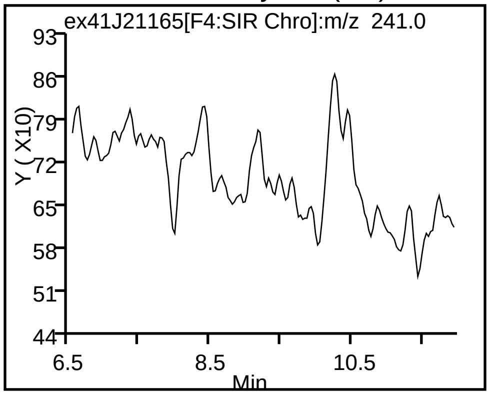
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG26 SB105 | Lab Sample ID: 280-21683-20

Matrix: Solid | Lab File ID: ex41J21166.d

Analysis Method: 8321B | Date Collected: 10/14/2011 09:52

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.18(g) | Date Analyzed: 10/25/2011 16:31

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	73		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21166.d		
Lims ID:	280-21683-A-20-C	Client ID:	SB105
Inject. Date:	25-Oct-2011 16:31:19	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-20-C 280-0002644-161		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	32
Lims Batch ID:	92961	Lims Sample ID:	161
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:13	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	26-Oct-2011 06:10:58

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		781813	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3035156	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1799891	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	642699	72.2			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5044718	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

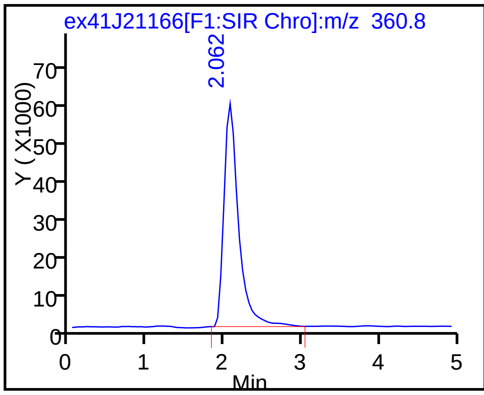
QC Flag Legend

Processing Flags
1 - Missing Peaks

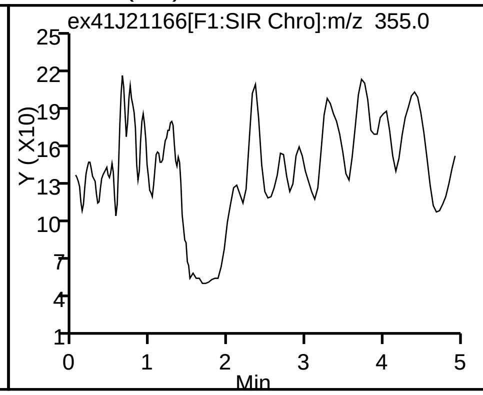
Report Date: 26-Oct-2011 06:24:15 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21166.d

Injection Date:	25-Oct-2011 16:31:19	Limit Group:	LC - 8321A Expl
Client ID:	SB105	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	161
Operator ID:		Injection Vol:	40.00 ul

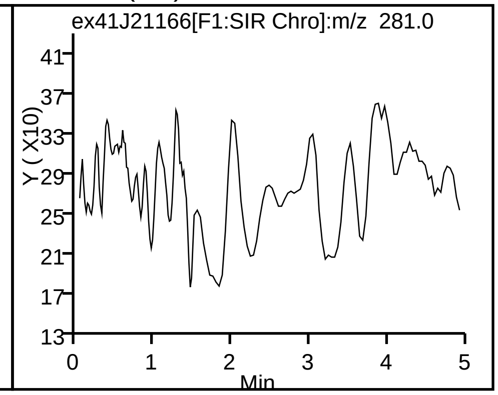
* 1 HMX-13C4



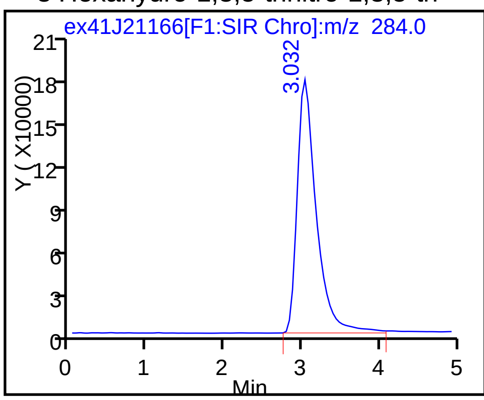
2 HMX (ND)



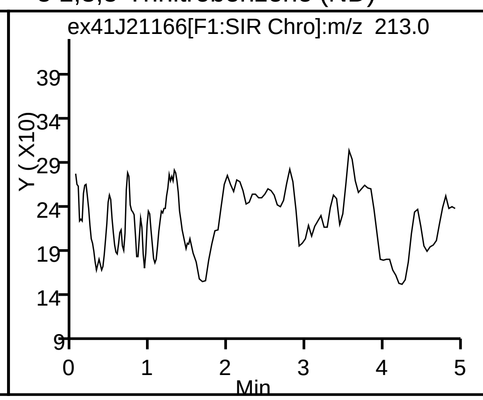
4 RDX (ND)



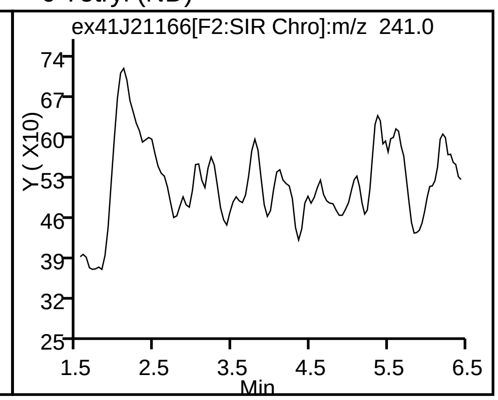
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



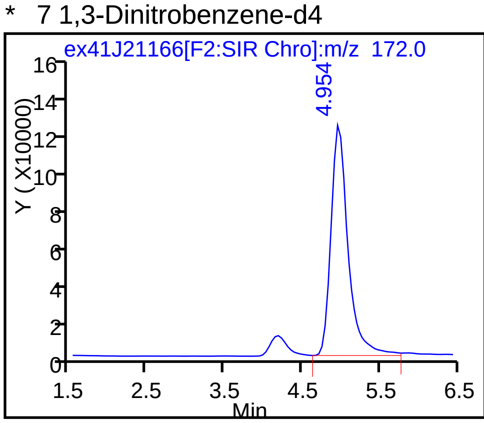
5 1,3,5-Trinitrobenzene (ND)



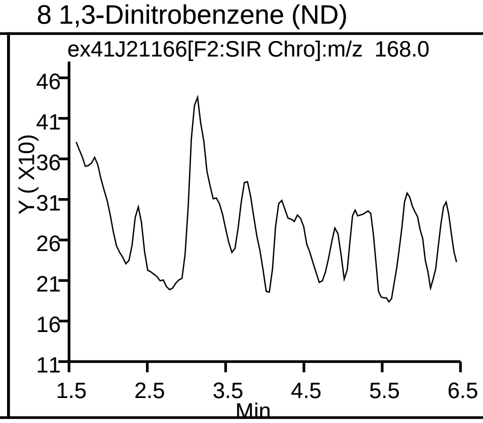
6 Tetryl (ND)



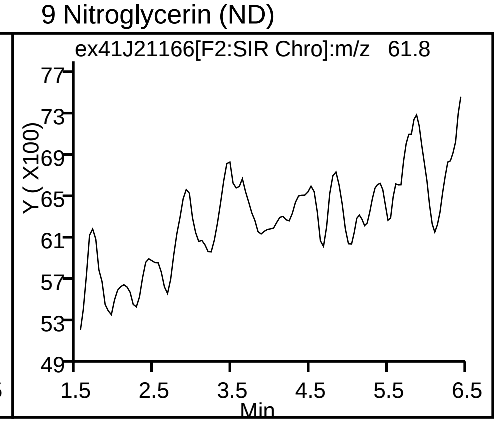
* 7 1,3-Dinitrobenzene-d4



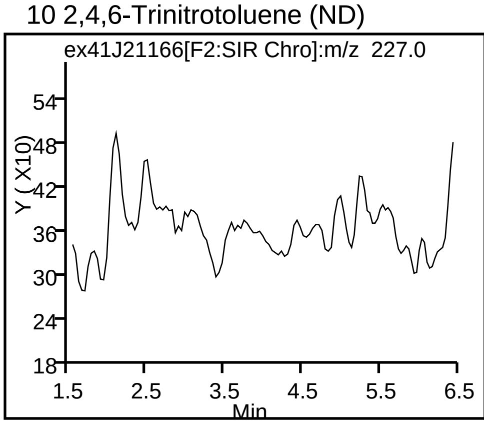
8 1,3-Dinitrobenzene (ND)



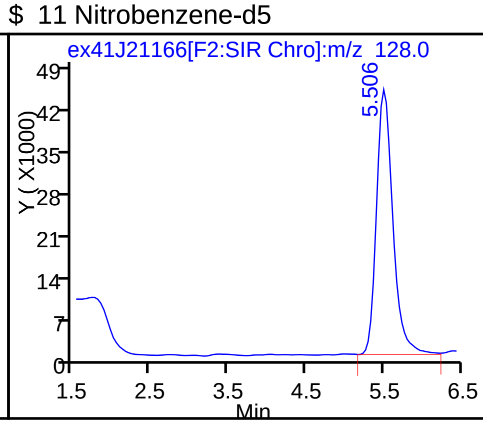
9 Nitroglycerin (ND)



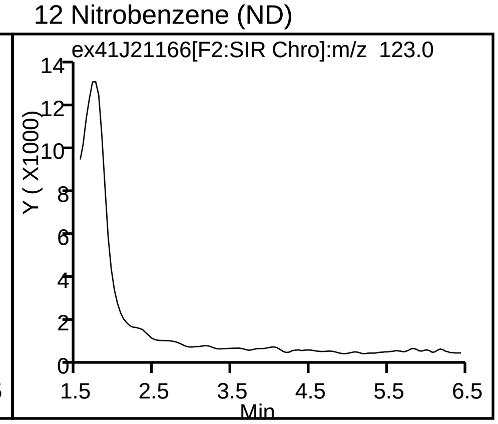
10 2,4,6-Trinitrotoluene (ND)



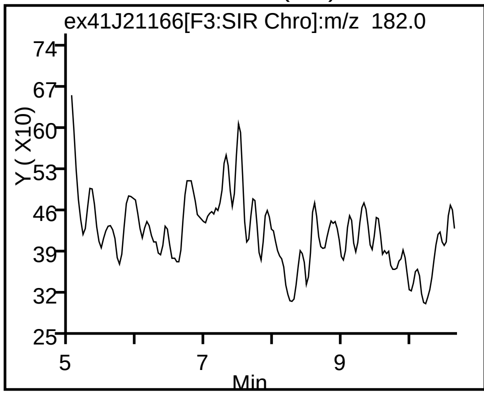
$ 11 Nitrobenzene-d5



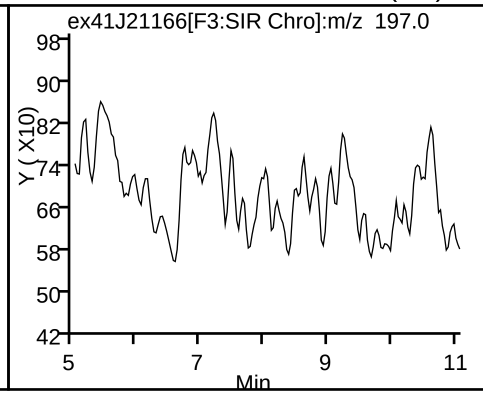
12 Nitrobenzene (ND)



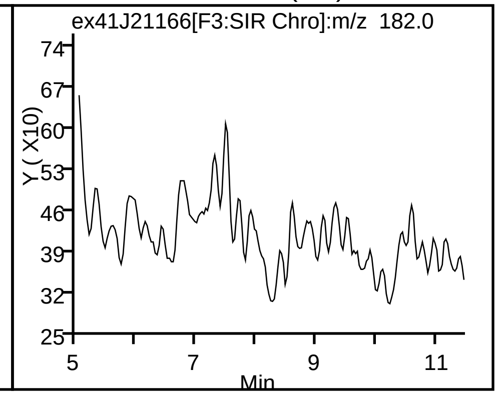
13 3,4-Dinitrotoluene (ND)



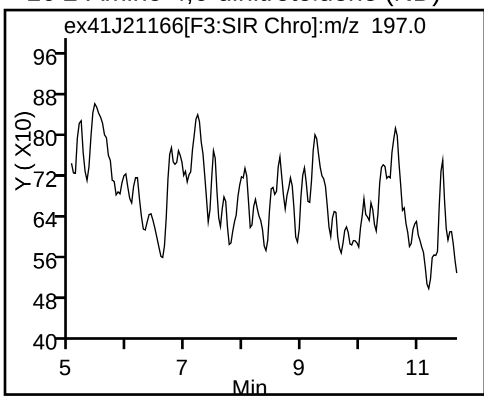
14 4-Amino-2,6-dinitrotoluene (ND)



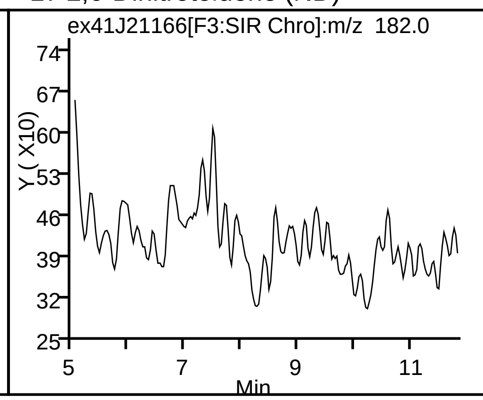
15 2,3-Dinitrotoluene (ND)



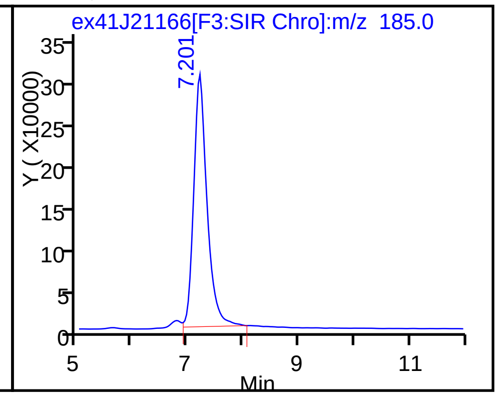
16 2-Amino-4,6-dinitrotoluene (ND)



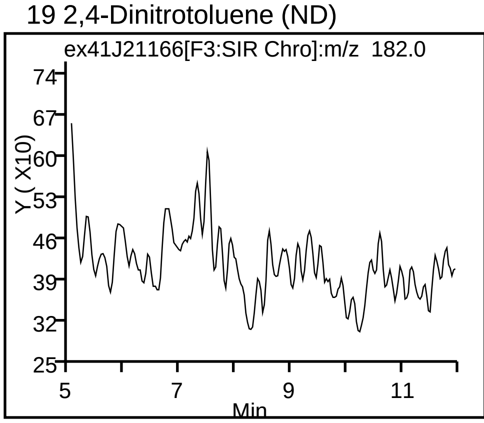
17 2,6-Dinitrotoluene (ND)



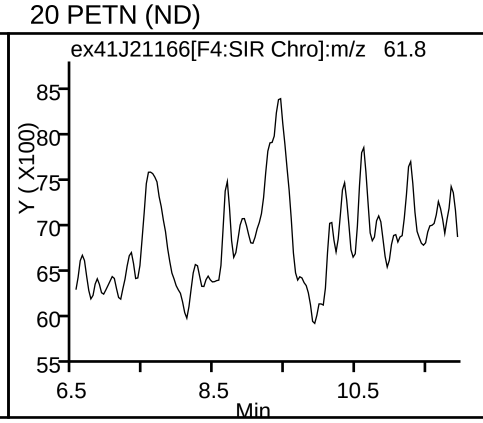
* 18 2,4-dinitrotoluene-d3



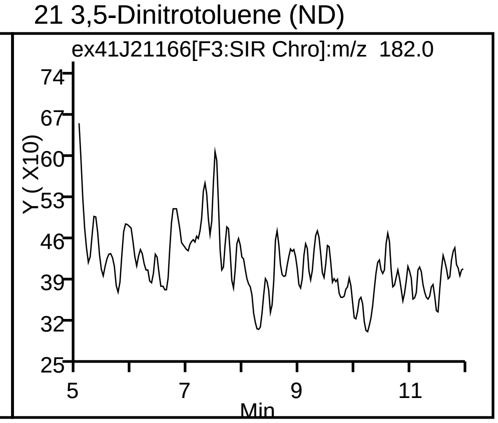
19 2,4-Dinitrotoluene (ND)



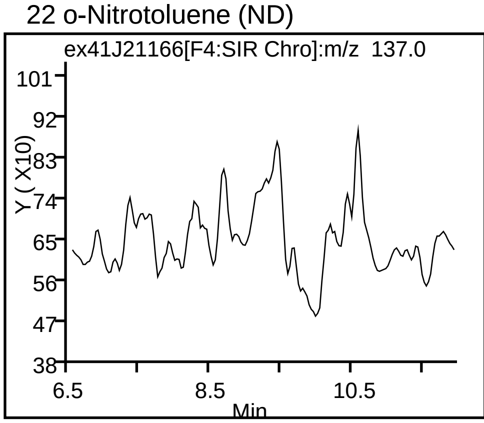
20 PETN (ND)



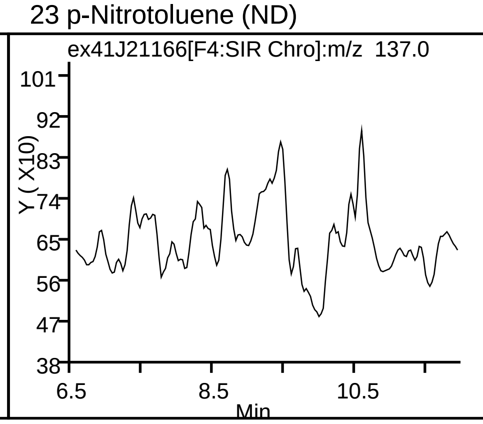
21 3,5-Dinitrotoluene (ND)



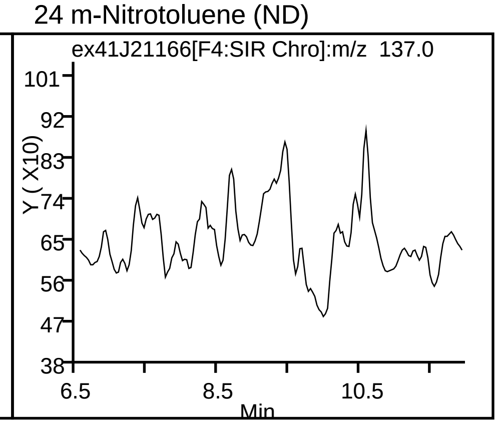
22 o-Nitrotoluene (ND)



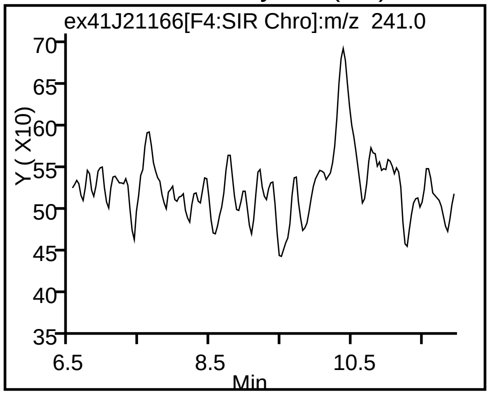
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG24 SB101 Lab Sample ID: 280-21683-21

Matrix: Solid Lab File ID: ex41J21167.d

Analysis Method: 8321B Date Collected: 10/14/2011 09:33

Extraction Method: 8330B Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.44(g) Date Analyzed: 10/25/2011 16:44

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.096	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	72		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21167.d		
Lims ID:	280-21683-B-21-B	Client ID:	SB101
Inject. Date:	25-Oct-2011 16:44:53	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-21-B 280-0002644-162		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	33
Lims Batch ID:	92961	Lims Sample ID:	162
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:13	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 26-Oct-2011 06:11:09

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		911385	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3063423	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1857598	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	649770	70.7			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4899815	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										
4	137.0		8.223							
23 p-Nitrotoluene										
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

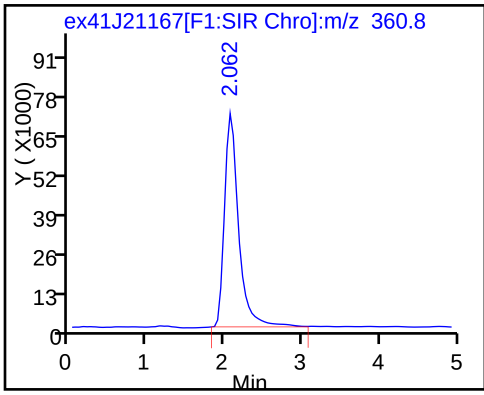
QC Flag Legend

Processing Flags
1 - Missing Peaks

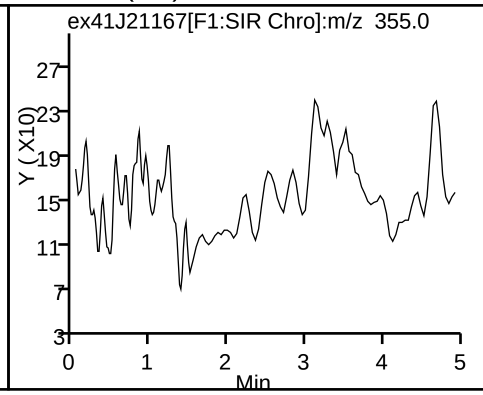
Report Date: 26-Oct-2011 06:24:16   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21167.d

Injection Date:	25-Oct-2011 16:44:53	Limit Group:	LC - 8321A Expl
Client ID:	SB101	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	162
Operator ID:		Injection Vol:	40.00 ul

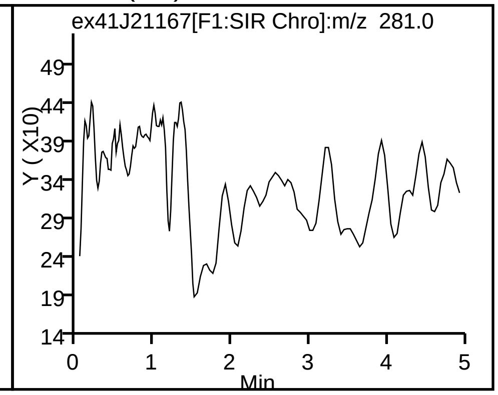
* 1 HMX-13C4



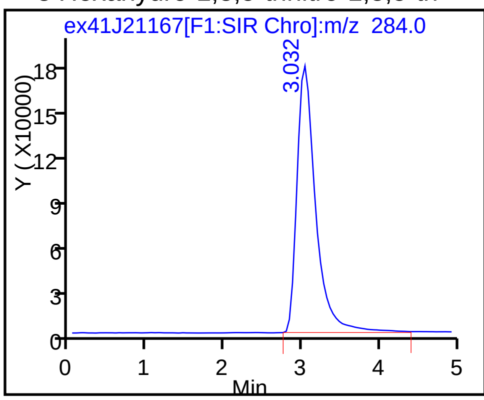
2 HMX (ND)



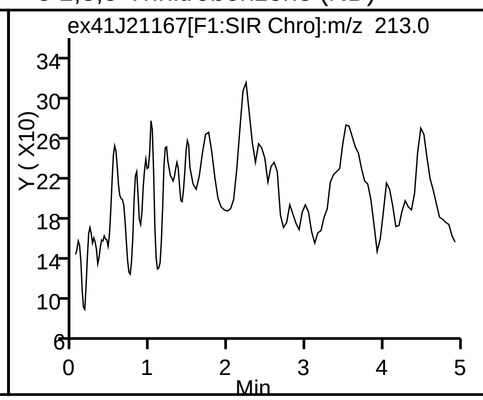
4 RDX (ND)



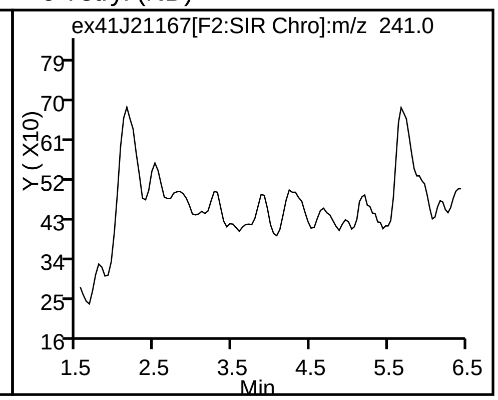
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



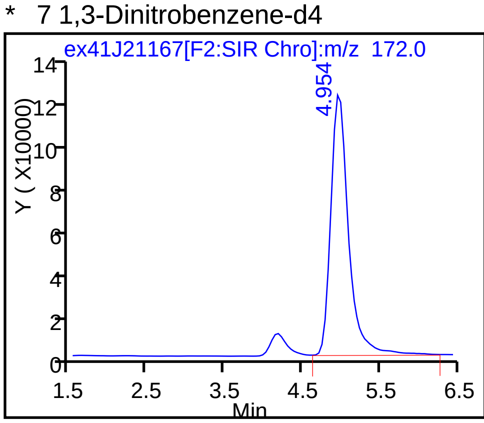
5 1,3,5-Trinitrobenzene (ND)



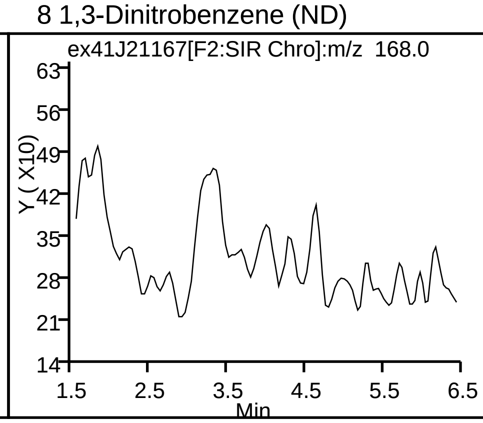
6 Tetryl (ND)



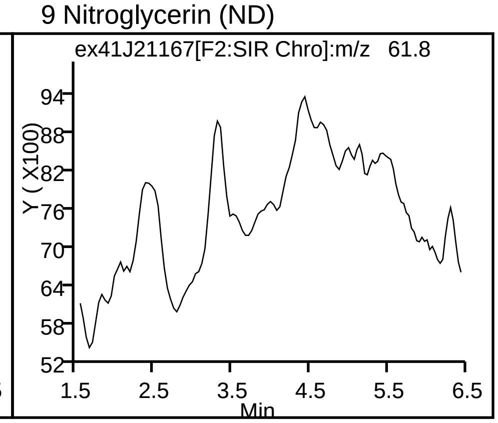
* 7 1,3-Dinitrobenzene-d4



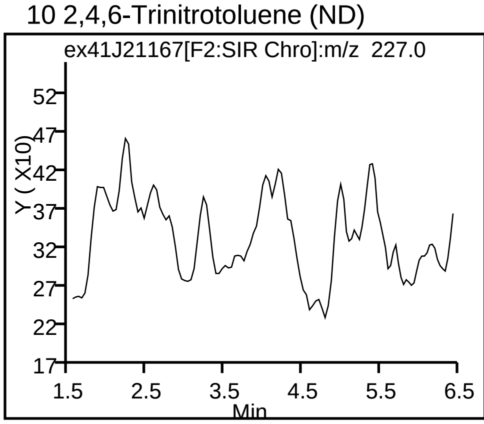
8 1,3-Dinitrobenzene (ND)



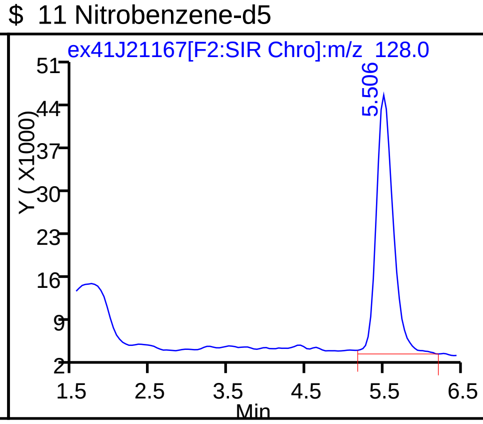
9 Nitroglycerin (ND)



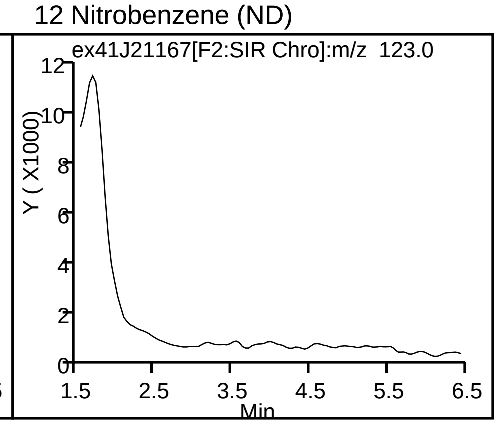
10 2,4,6-Trinitrotoluene (ND)



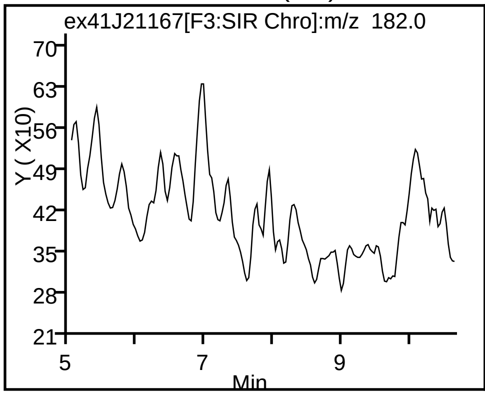
$ 11 Nitrobenzene-d5



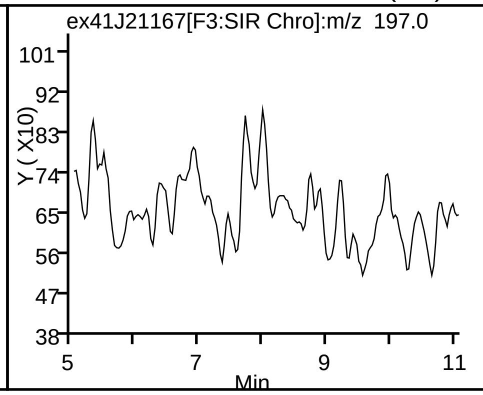
12 Nitrobenzene (ND)



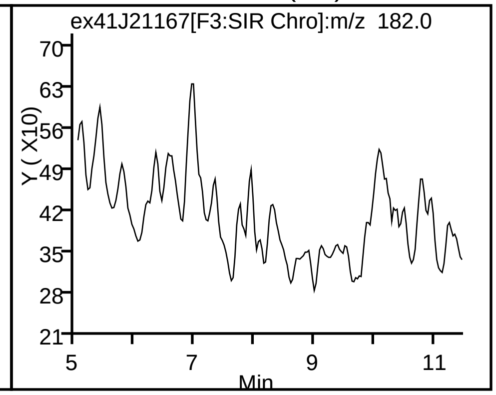
13 3,4-Dinitrotoluene (ND)



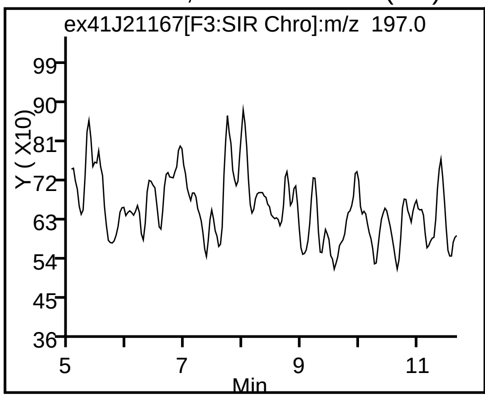
14 4-Amino-2,6-dinitrotoluene (ND)



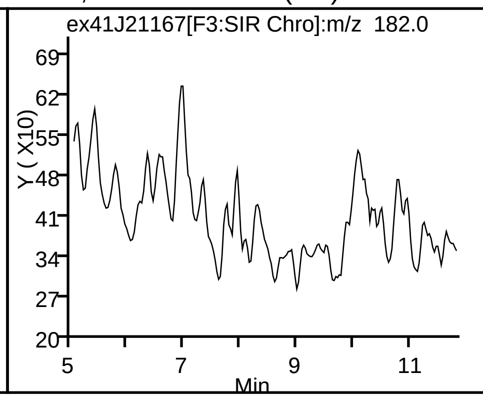
15 2,3-Dinitrotoluene (ND)



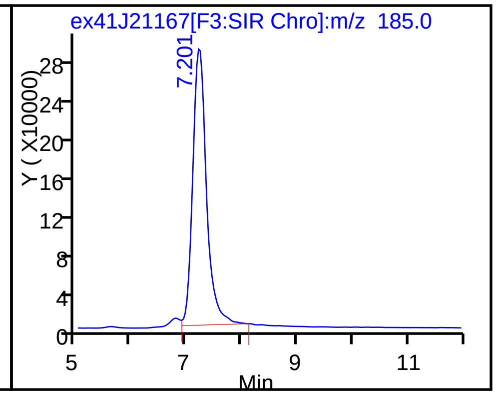
16 2-Amino-4,6-dinitrotoluene (ND)



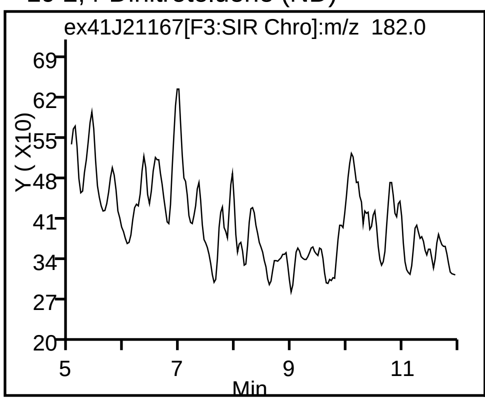
17 2,6-Dinitrotoluene (ND)



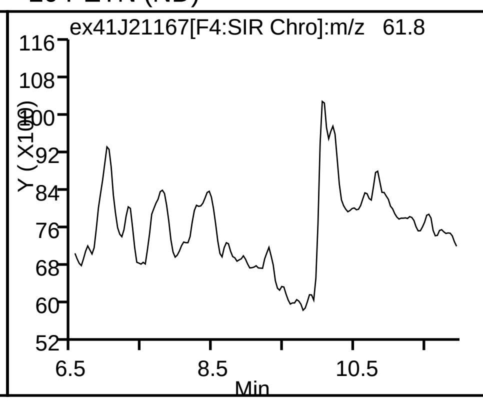
* 18 2,4-dinitrotoluene-d3



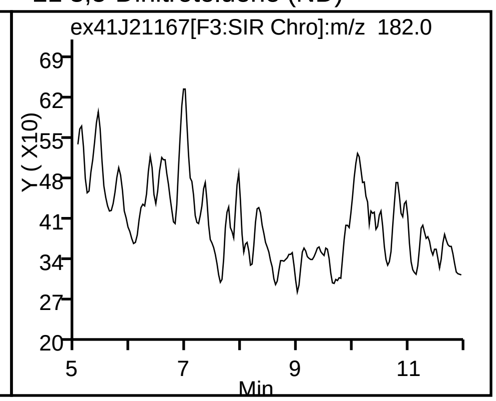
19 2,4-Dinitrotoluene (ND)



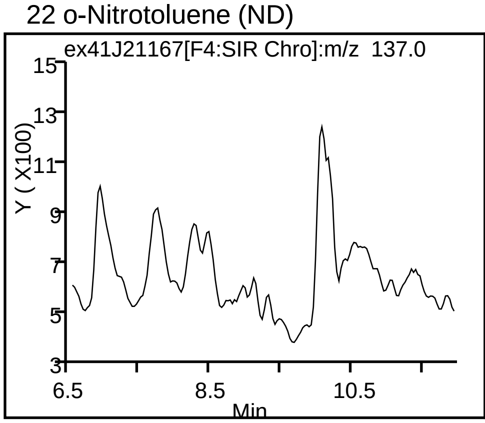
20 PETN (ND)



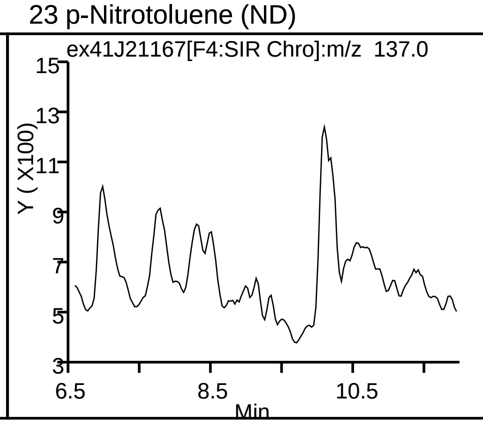
21 3,5-Dinitrotoluene (ND)



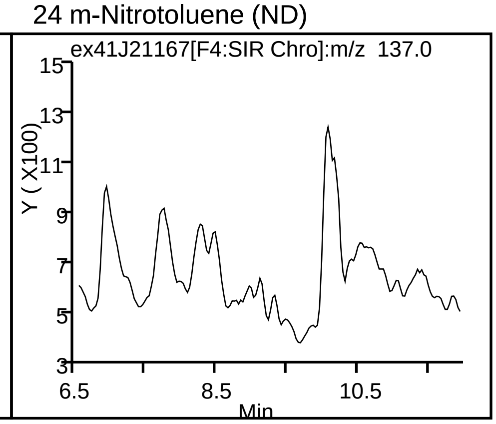
22 o-Nitrotoluene (ND)



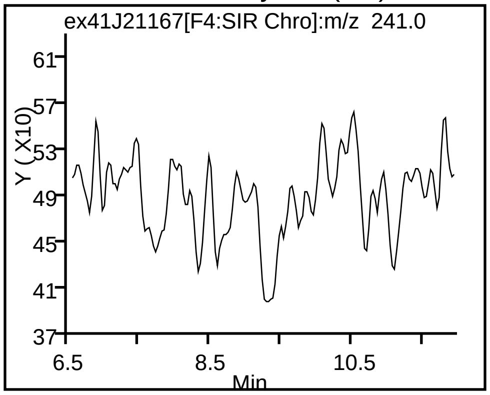
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG35 SB124 Lab Sample ID: 280-21683-22

Matrix: Solid Lab File ID: ex41J21168.d

Analysis Method: 8321B Date Collected: 10/14/2011 11:30

Extraction Method: 8330B Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.48(g) Date Analyzed: 10/25/2011 16:58

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.095	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21168.d		
Lims ID:	280-21683-A-22-C	Client ID:	SB124
Inject. Date:	25-Oct-2011 16:58:27	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-22-C 280-0002644-163		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	34
Lims Batch ID:	92961	Lims Sample ID:	163
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:13	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 26-Oct-2011 06:11:21

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		918765	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3340350	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1765946	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	664211	76.1			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15	2,3-Dinitrotoluene									1
3	182.0		6.492							
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.837							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.201	0.000		4731524	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.292							
20	PETN									
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									
4	137.0		8.223							
23	p-Nitrotoluene									
4	137.0		8.800							
24	m-Nitrotoluene									
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

QC Flag Legend

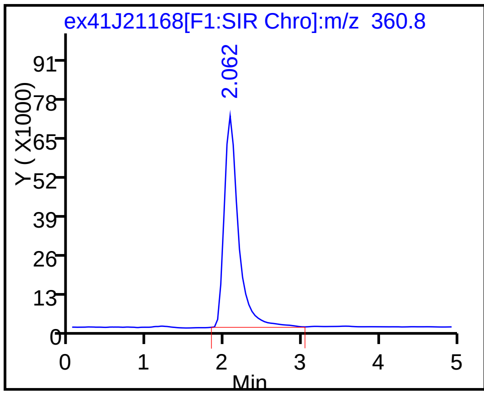
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 06:24:16 Chrom Revision: 1.2 13-Jul-2011 10:43:06

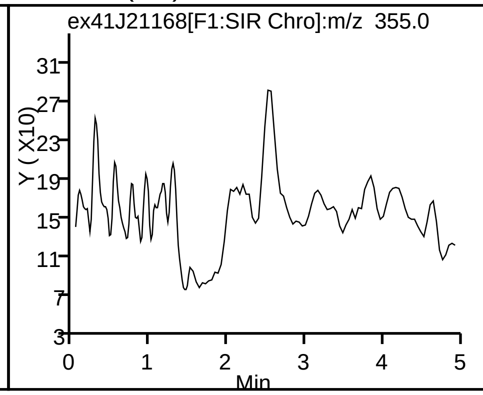
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21168.d

Injection Date:	25-Oct-2011 16:58:27	Limit Group:	LC - 8321A Expl
Client ID:	SB124	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	163
Operator ID:		Injection Vol:	40.00 ul

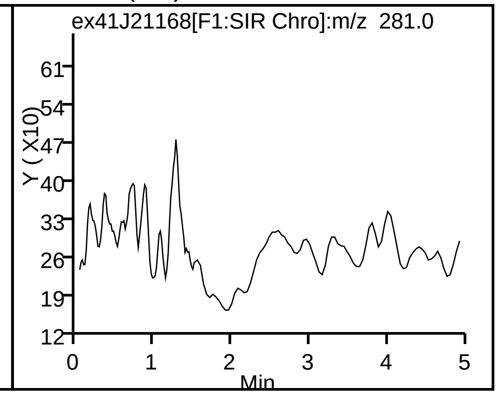
* 1 HMX-13C4



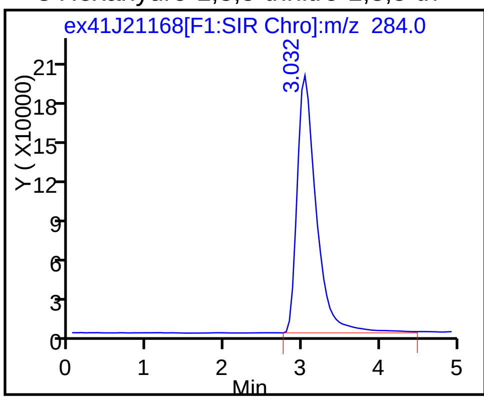
2 HMX (ND)



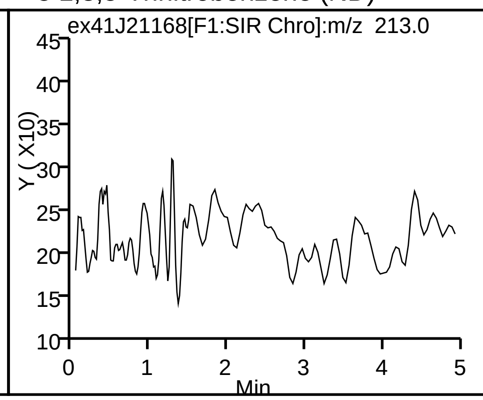
4 RDX (ND)



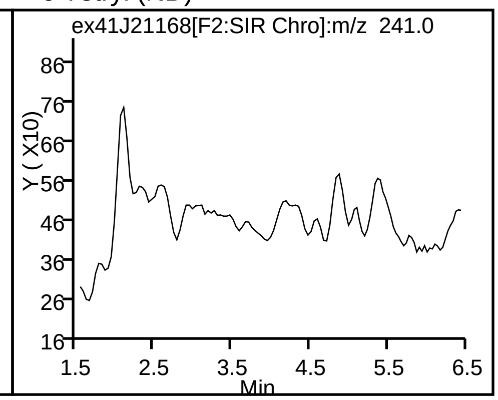
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



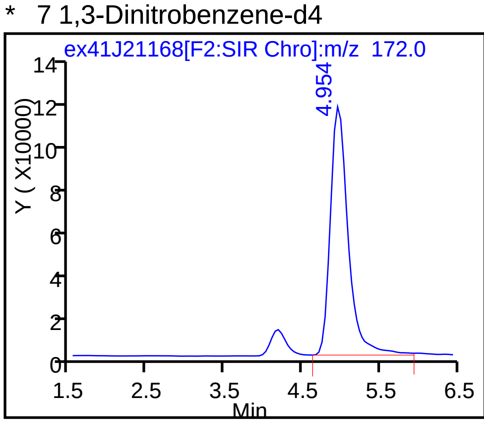
5 1,3,5-Trinitrobenzene (ND)



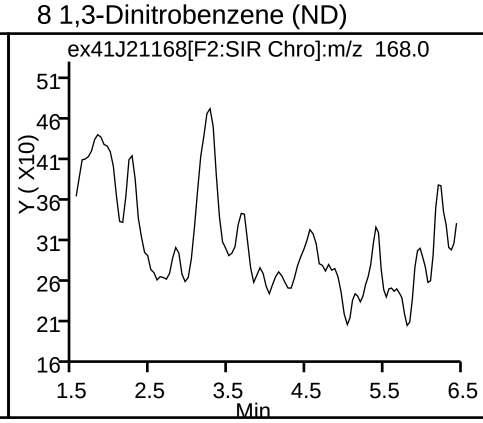
6 Tetryl (ND)



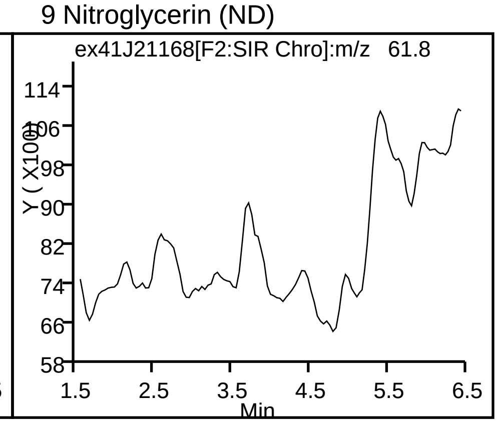
* 7 1,3-Dinitrobenzene-d4



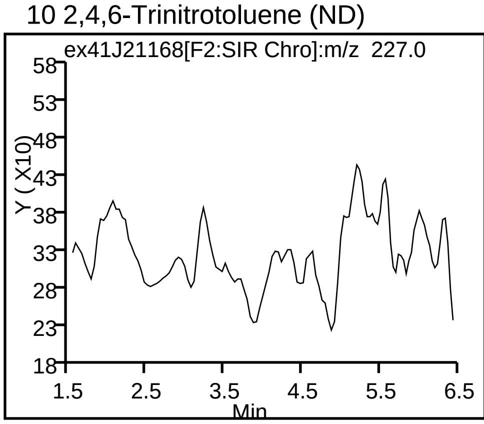
8 1,3-Dinitrobenzene (ND)



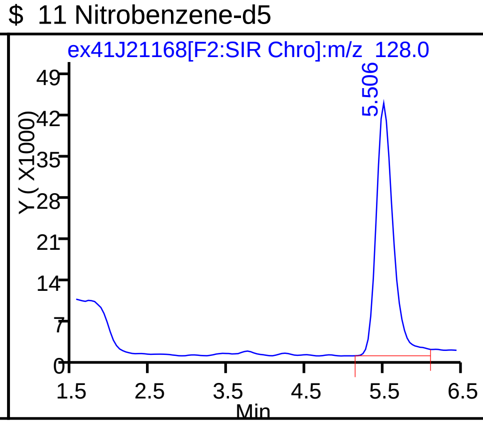
9 Nitroglycerin (ND)



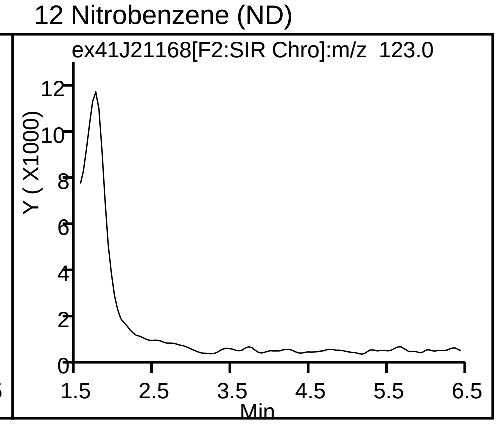
10 2,4,6-Trinitrotoluene (ND)



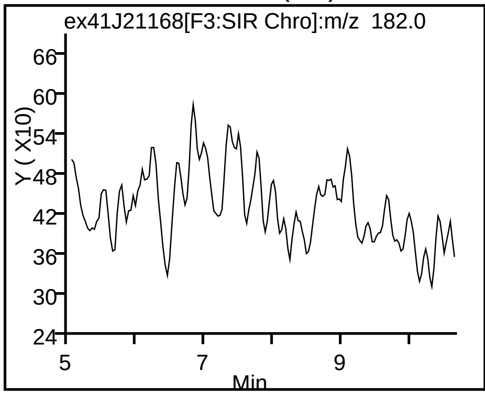
$ 11 Nitrobenzene-d5



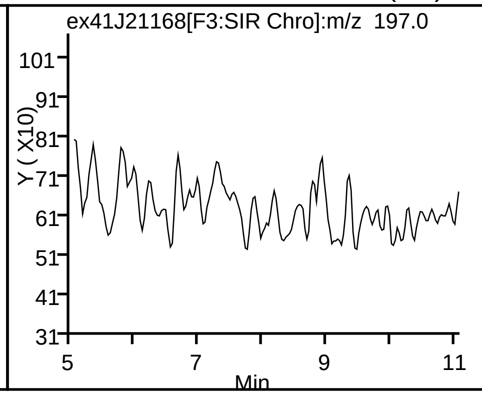
12 Nitrobenzene (ND)



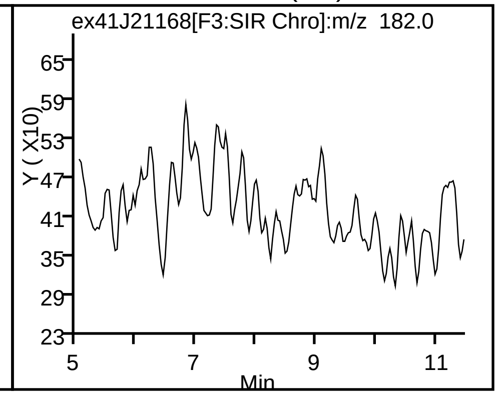
13 3,4-Dinitrotoluene (ND)



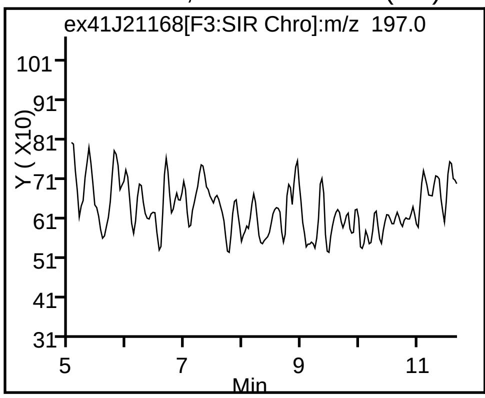
14 4-Amino-2,6-dinitrotoluene (ND)



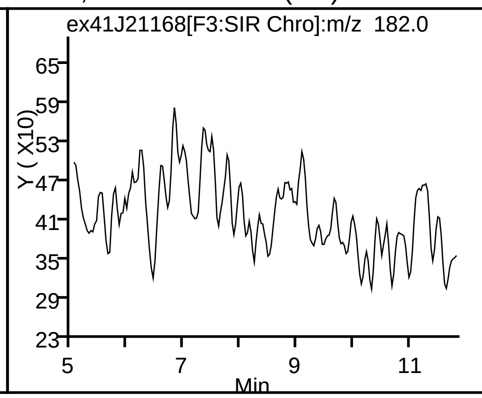
15 2,3-Dinitrotoluene (ND)



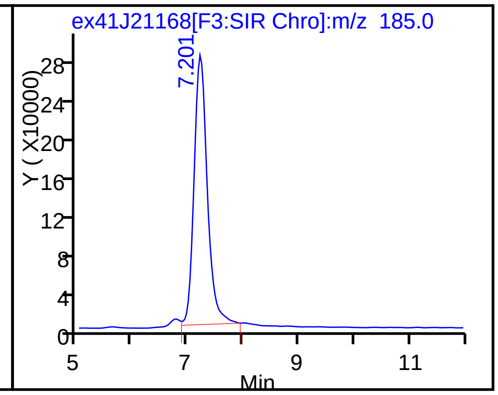
16 2-Amino-4,6-dinitrotoluene (ND)



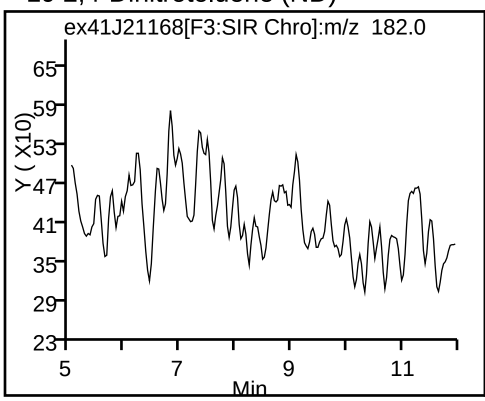
17 2,6-Dinitrotoluene (ND)



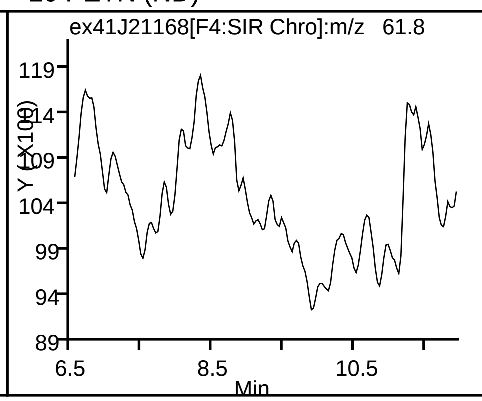
* 18 2,4-dinitrotoluene-d3



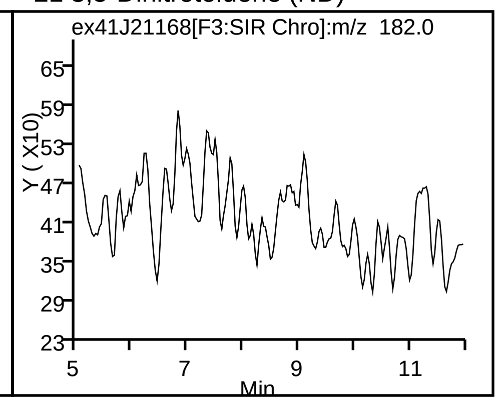
19 2,4-Dinitrotoluene (ND)



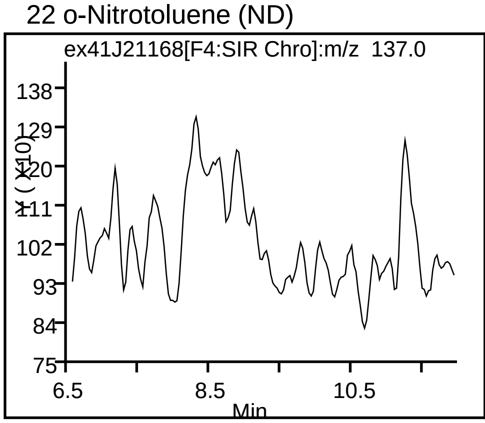
20 PETN (ND)



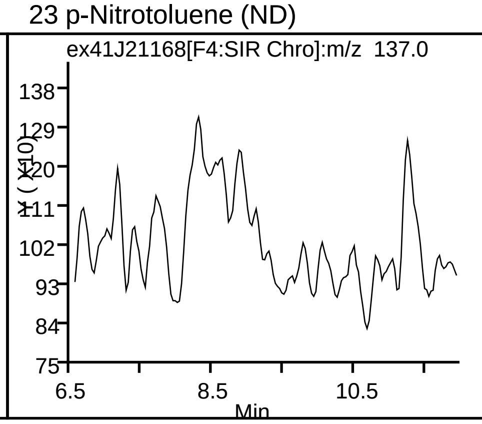
21 3,5-Dinitrotoluene (ND)



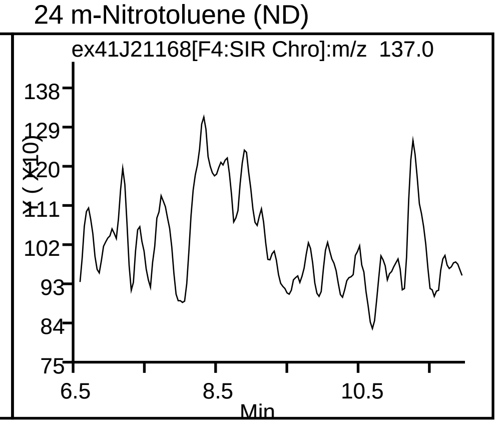
22 o-Nitrotoluene (ND)



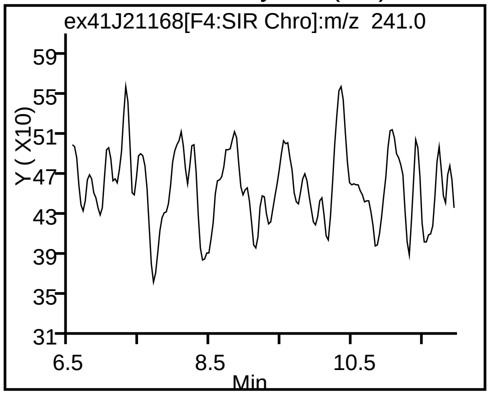
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG35 SB125   Lab Sample ID: 280-21683-23

Matrix: Solid   Lab File ID: ex41J21169.d

Analysis Method: 8321B   Date Collected: 10/14/2011 11:30

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.15(g)   Date Analyzed: 10/25/2011 17:12

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	72		68-140

Report Date: 26-Oct-2011 06:24:17 Chrom Revision: 1.2 13-Jul-2011 10:43:06

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21169.d		
Lims ID:	280-21683-B-23-B	Client ID:	SB125
Inject. Date:	25-Oct-2011 17:12:01	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-23-B 280-0002644-164		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	35
Lims Batch ID:	92961	Lims Sample ID:	164
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:13	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 26-Oct-2011 06:11:31

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		939106	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3454177	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1897459	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	663274	70.7			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		5329310	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

QC Flag Legend

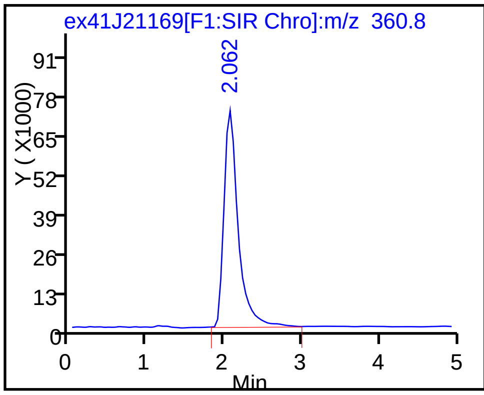
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 06:24:17 Chrom Revision: 1.2 13-Jul-2011 10:43:06

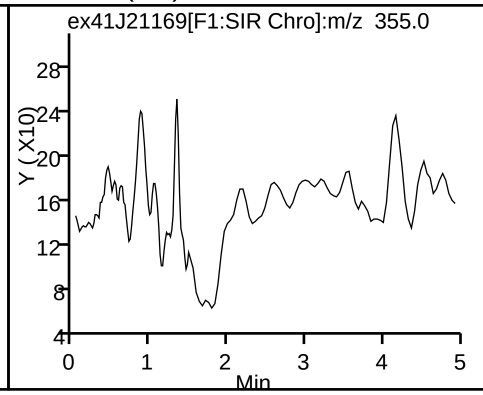
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21169.d

Injection Date:	25-Oct-2011 17:12:01	Limit Group:	LC - 8321A Expl
Client ID:	SB125	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	164
Operator ID:		Injection Vol:	40.00 ul

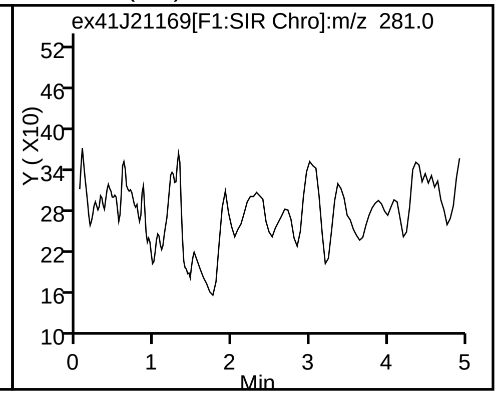
* 1 HMX-13C4



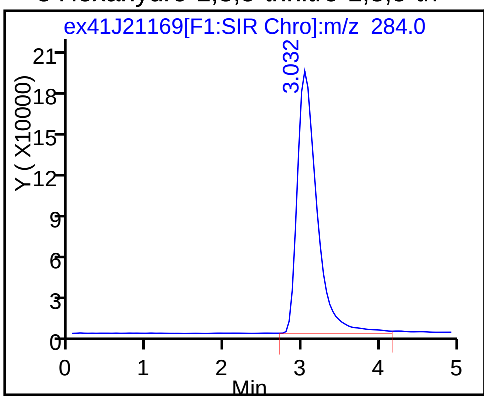
2 HMX (ND)



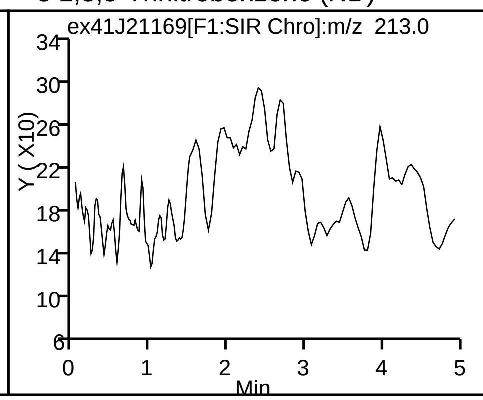
4 RDX (ND)



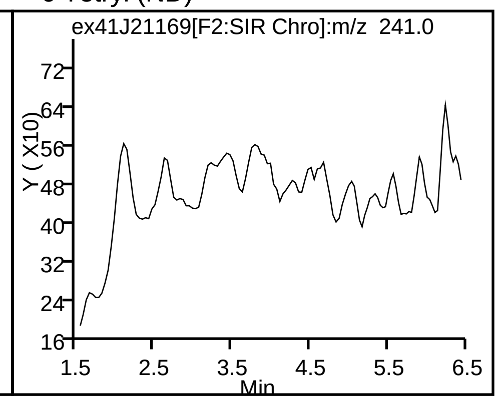
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



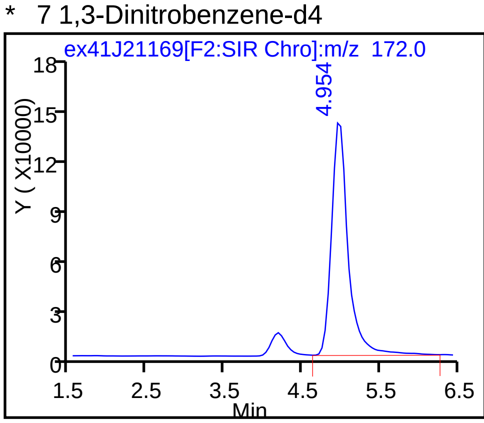
5 1,3,5-Trinitrobenzene (ND)



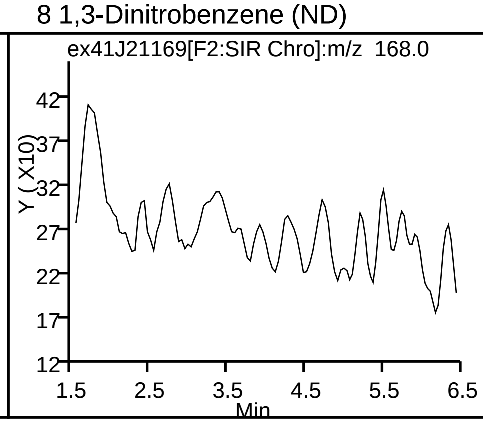
6 Tetryl (ND)



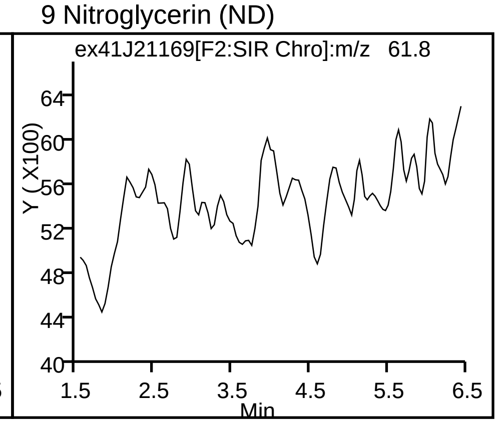
* 7 1,3-Dinitrobenzene-d4



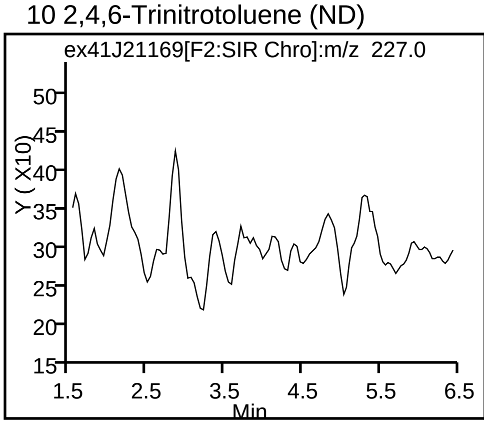
8 1,3-Dinitrobenzene (ND)



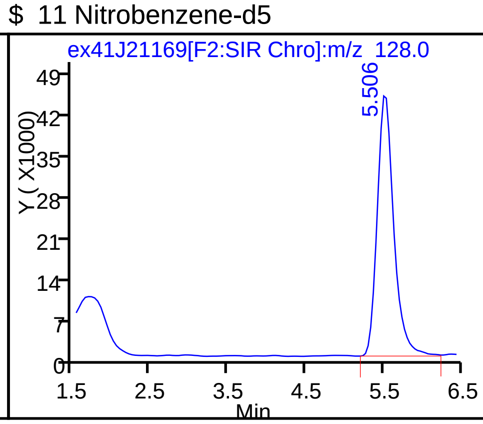
9 Nitroglycerin (ND)



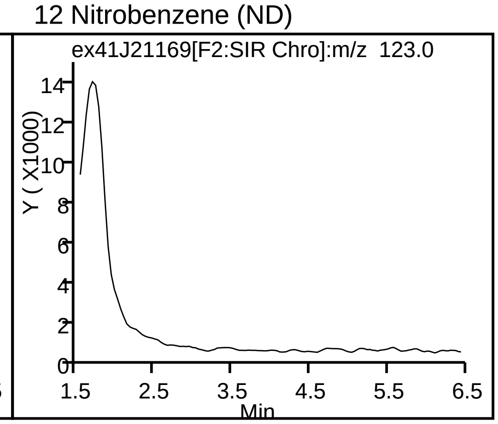
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

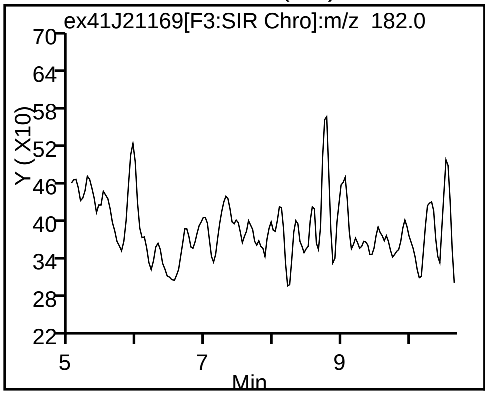


12 Nitrobenzene (ND)

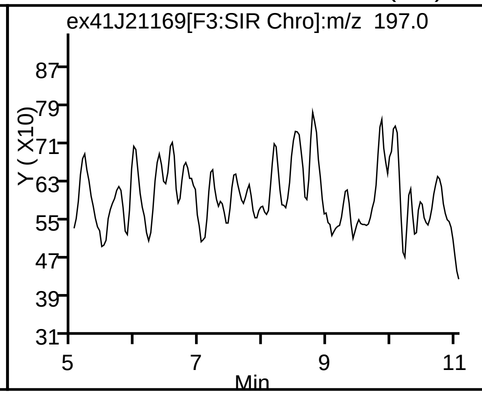


Report Date: 26-Oct-2011 06:24:17 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21169.d

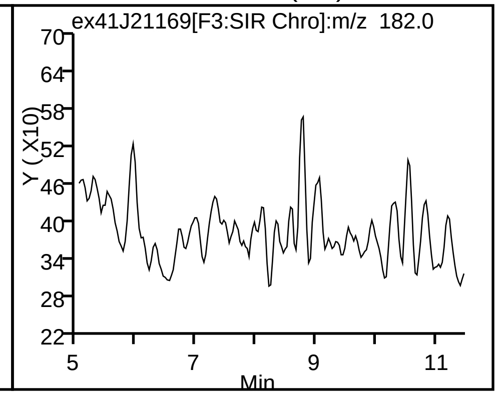
13 3,4-Dinitrotoluene (ND)



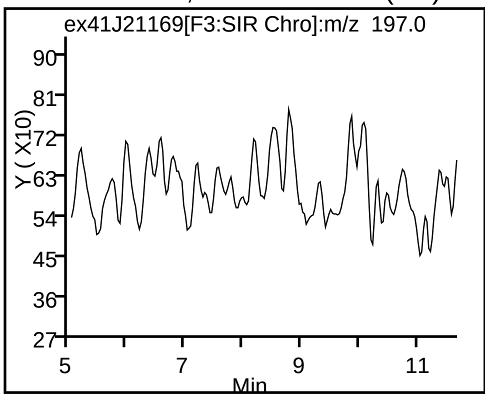
14 4-Amino-2,6-dinitrotoluene (ND)



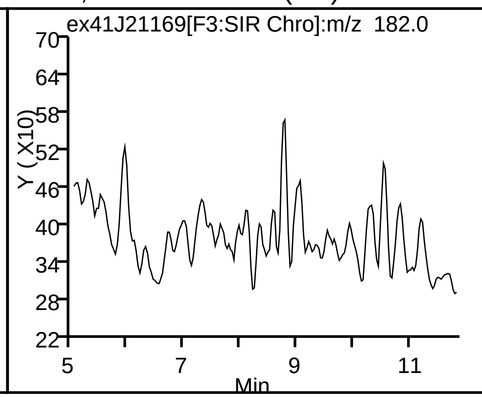
15 2,3-Dinitrotoluene (ND)



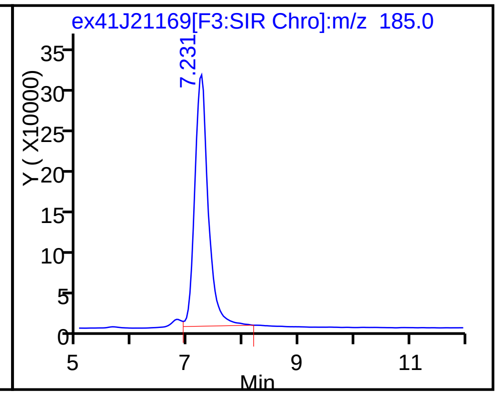
16 2-Amino-4,6-dinitrotoluene (ND)



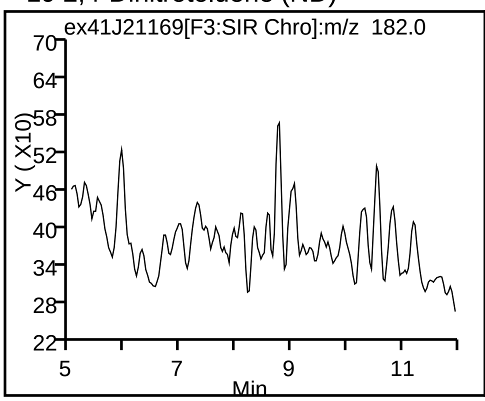
17 2,6-Dinitrotoluene (ND)



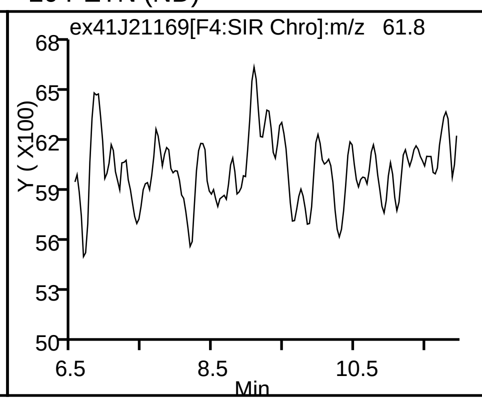
* 18 2,4-dinitrotoluene-d3



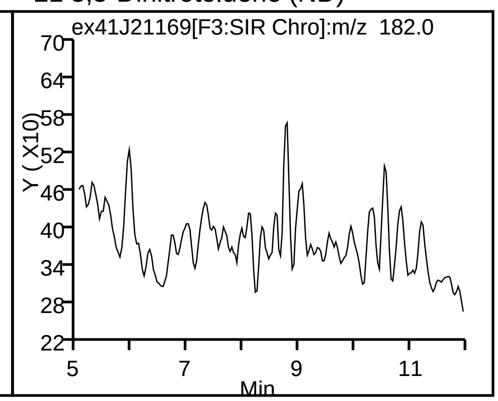
19 2,4-Dinitrotoluene (ND)



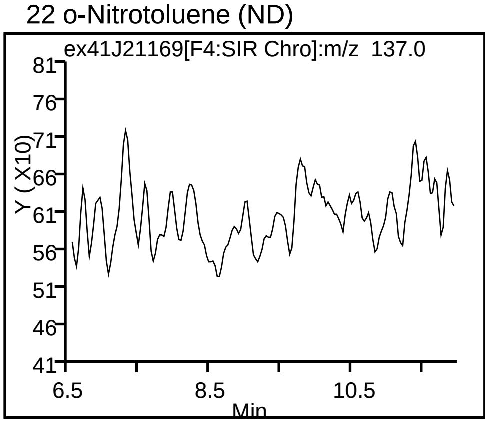
20 PETN (ND)



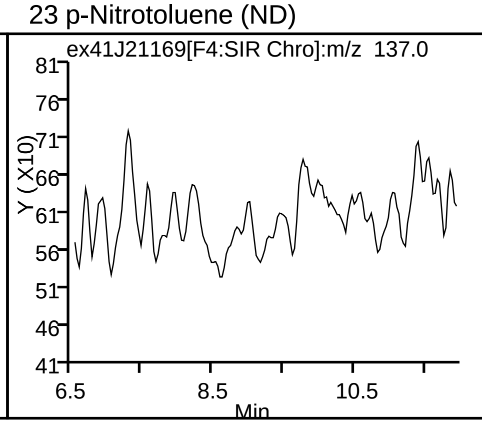
21 3,5-Dinitrotoluene (ND)



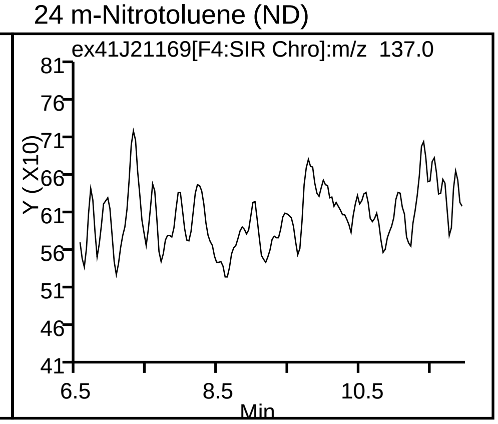
22 o-Nitrotoluene (ND)



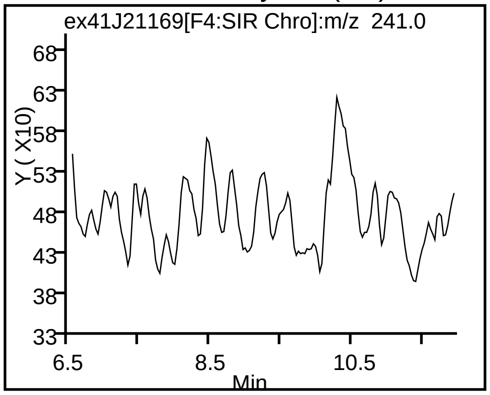
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG36 SB126

Lab Sample ID: 280-21683-24

Matrix: Solid

Lab File ID: ex41J21170.d

Analysis Method: 8321B

Date Collected: 10/14/2011 11:46

Extraction Method: 8330B

Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.58(g)

Date Analyzed: 10/25/2011 17:25

Con. Extract Vol.: 40(mL)

Dilution Factor: 1

Injection Volume: 40(uL)

GC Column: IonPac ID: 2(mm)

% Moisture:

GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961

Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.0099
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21170.d		
Lims ID:	280-21683-B-24-B	Client ID:	SB126
Inject. Date:	25-Oct-2011 17:25:34	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-24-B 280-0002644-165		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	36
Lims Batch ID:	92961	Lims Sample ID:	165
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:13	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		822865	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3232924	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1605935	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.118	649451	81.9			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

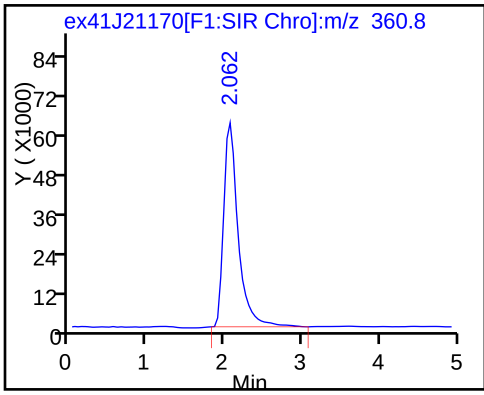
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.837							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.201	0.000		4654165	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.292							
20	PETN									1
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.223							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									1
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

QC Flag Legend

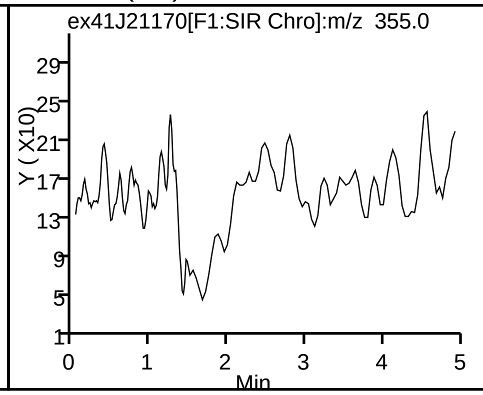
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 06:24:18		Chrom Revision: 1.2 13-Jul-2011 10:43:06	
Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21170.d		
Injection Date:	25-Oct-2011 17:25:34	Limit Group:	LC - 8321A Expl
Client ID:	SB126	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	165
Operator ID:		Injection Vol:	40.00 ul

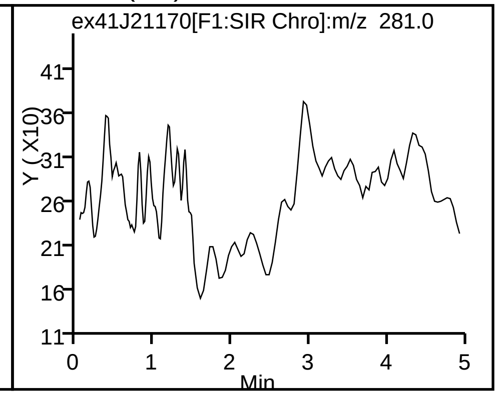
* 1 HMX-13C4



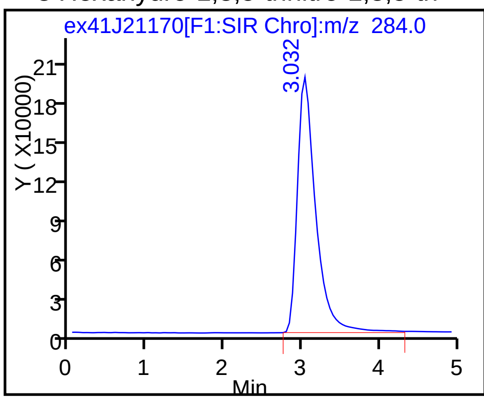
2 HMX (ND)



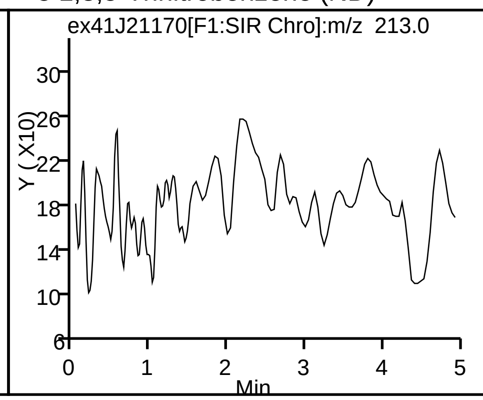
4 RDX (ND)



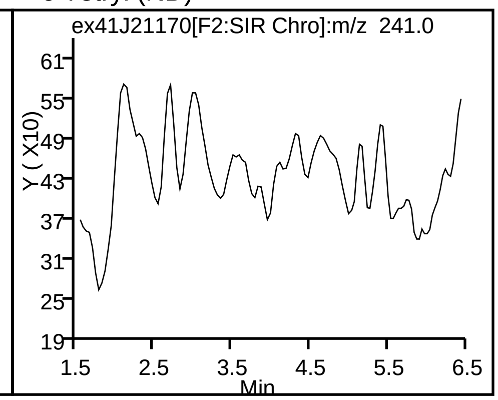
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



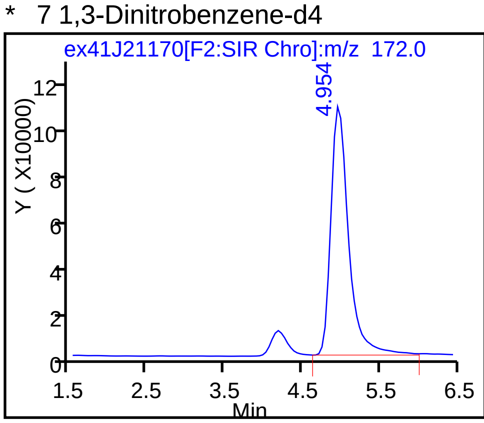
5 1,3,5-Trinitrobenzene (ND)



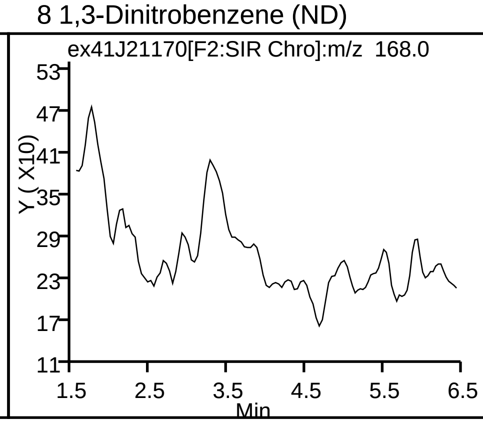
6 Tetryl (ND)



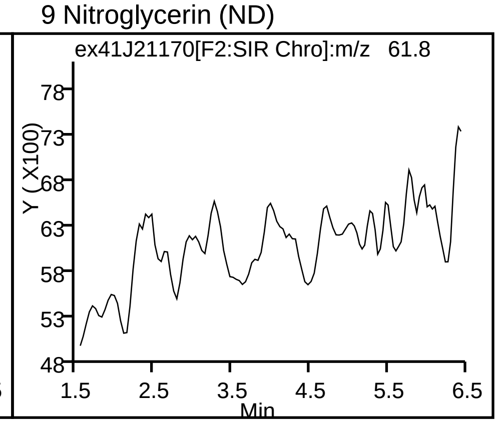
* 7 1,3-Dinitrobenzene-d4



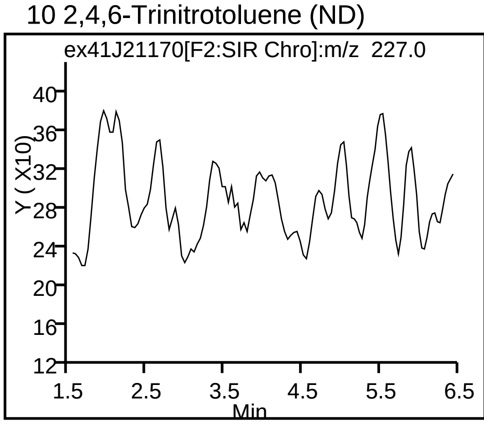
8 1,3-Dinitrobenzene (ND)



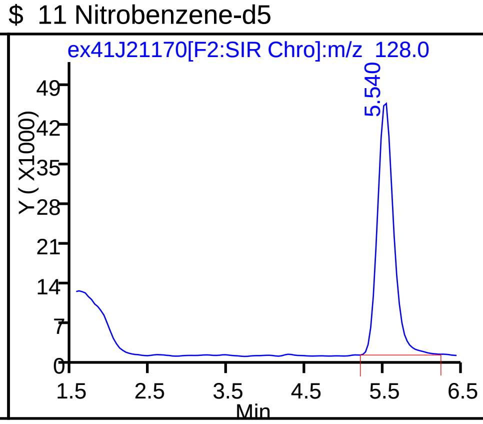
9 Nitroglycerin (ND)



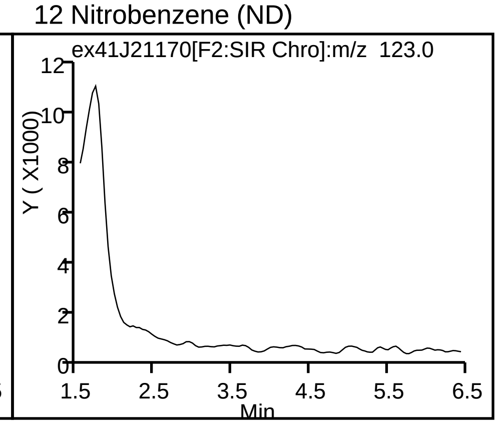
10 2,4,6-Trinitrotoluene (ND)



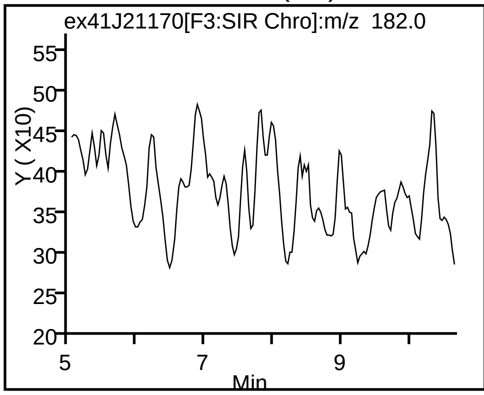
$ 11 Nitrobenzene-d5



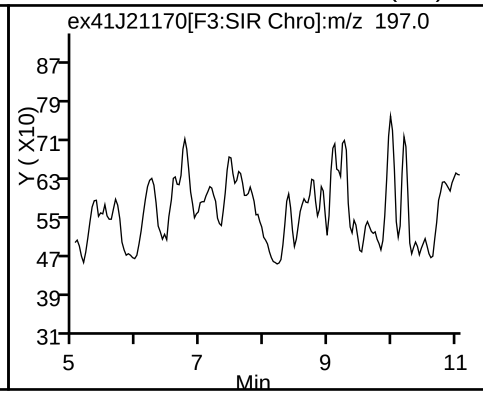
12 Nitrobenzene (ND)



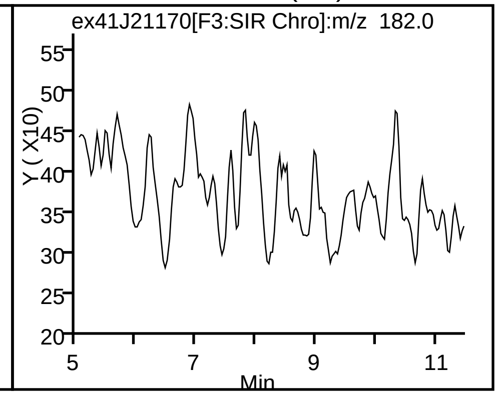
13 3,4-Dinitrotoluene (ND)



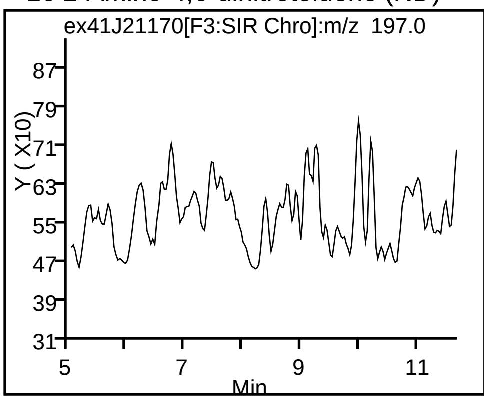
14 4-Amino-2,6-dinitrotoluene (ND)



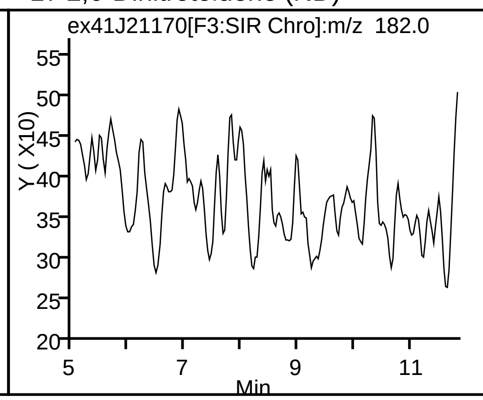
15 2,3-Dinitrotoluene (ND)



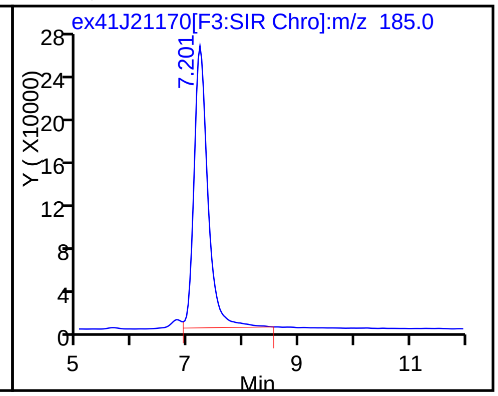
16 2-Amino-4,6-dinitrotoluene (ND)



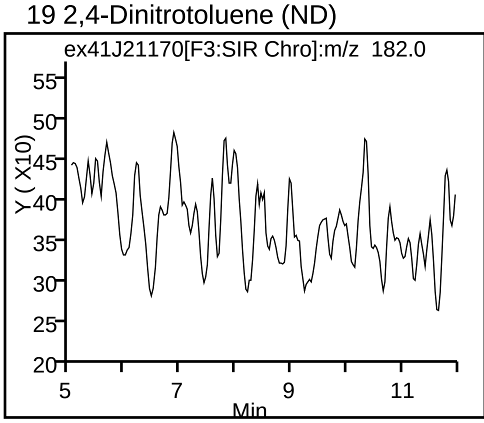
17 2,6-Dinitrotoluene (ND)



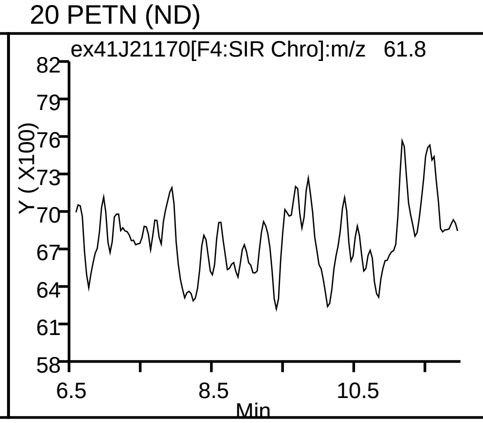
* 18 2,4-dinitrotoluene-d3



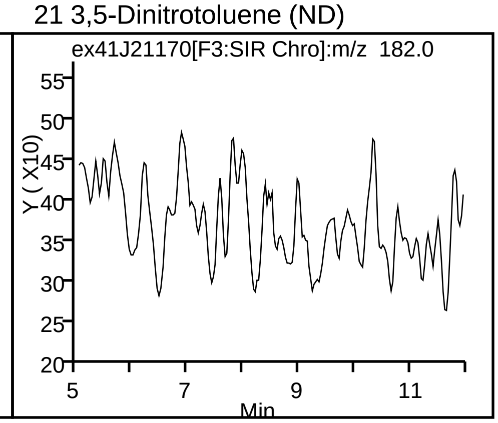
19 2,4-Dinitrotoluene (ND)



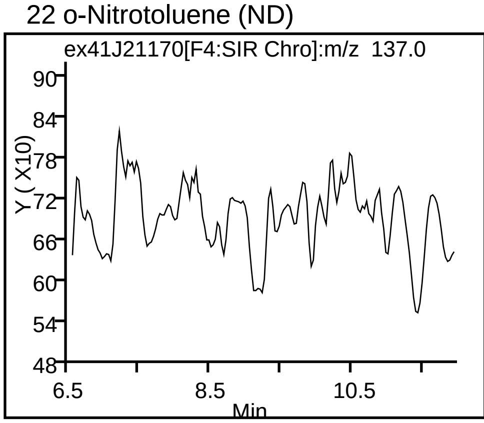
20 PETN (ND)



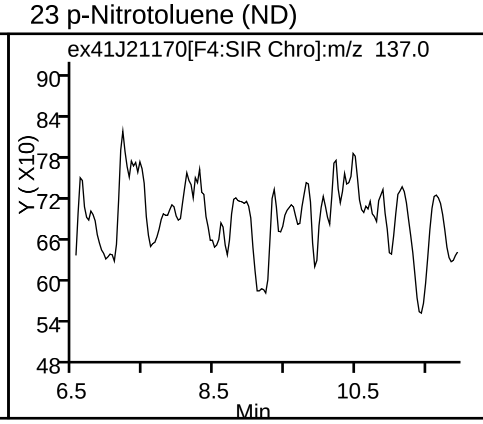
21 3,5-Dinitrotoluene (ND)



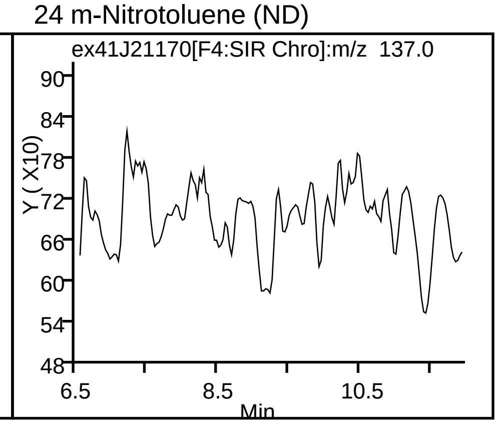
22 o-Nitrotoluene (ND)



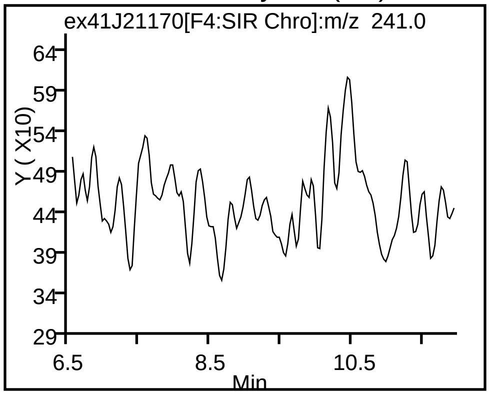
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name:	TestAmerica Denver	Job No.:	280-21683-1
SDG No.:			
Client Sample ID:	MG36 SB127	Lab Sample ID:	280-21683-25
Matrix:	Solid	Lab File ID:	ex41J21171.d
Analysis Method:	8321B	Date Collected:	10/14/2011 11:56
Extraction Method:	8330B	Date Extracted:	10/20/2011 19:17
Sample wt/vol:	10.77(g)	Date Analyzed:	10/25/2011 17:39
Con. Extract Vol.:	40(mL)	Dilution Factor:	1
Injection Volume:	40(uL)	GC Column:	IonPac ID: 2(mm)
% Moisture:		GPC Cleanup:(Y/N)	N
Analysis Batch No.:	92961	Units:	mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U Q	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.093	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0097
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21171.d		
Lims ID:	280-21683-A-25-C	Client ID:	SB127
Inject. Date:	25-Oct-2011 17:39:07	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-25-C 280-0002644-166		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	37
Lims Batch ID:	92961	Lims Sample ID:	166
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:13	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	26-Oct-2011 06:11:49

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		799644	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3129428	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1627176	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	615387	76.5			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4473282	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

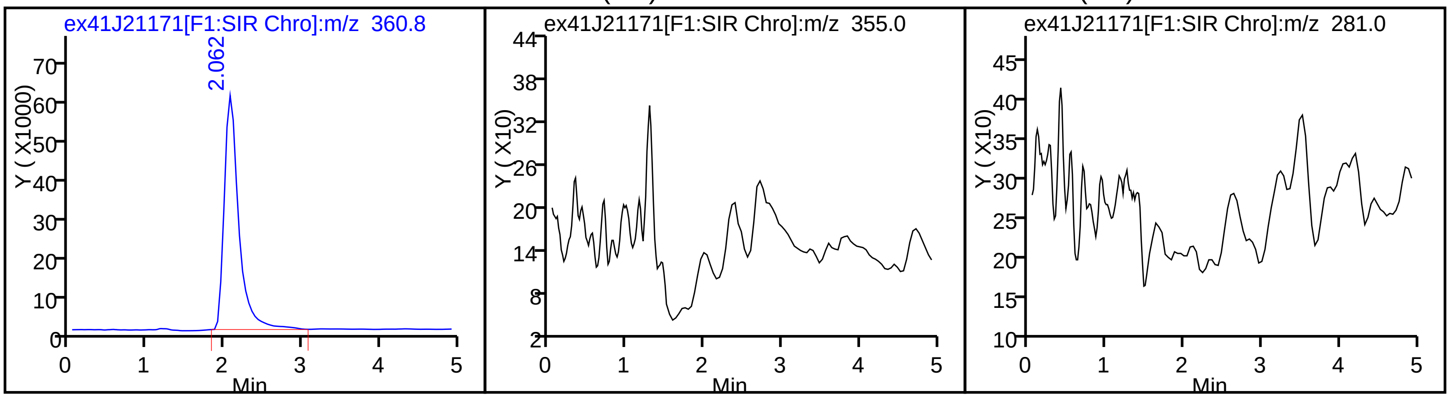
QC Flag Legend

Processing Flags
1 - Missing Peaks

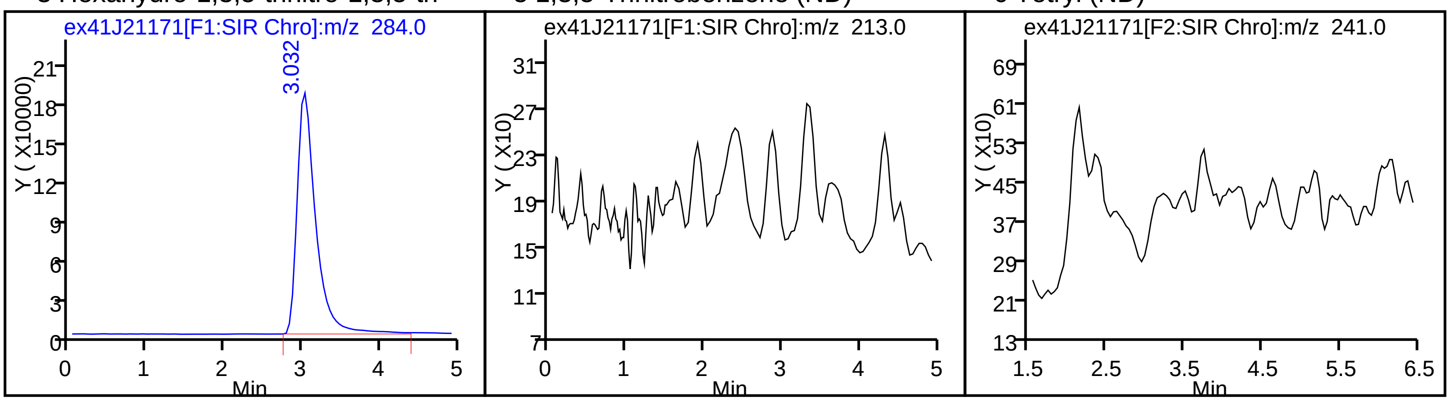
Report Date: 26-Oct-2011 06:24:18 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21171.d

Injection Date:	25-Oct-2011 17:39:07	Limit Group:	LC - 8321A Expl
Client ID:	SB127	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	166
Operator ID:		Injection Vol:	40.00 ul

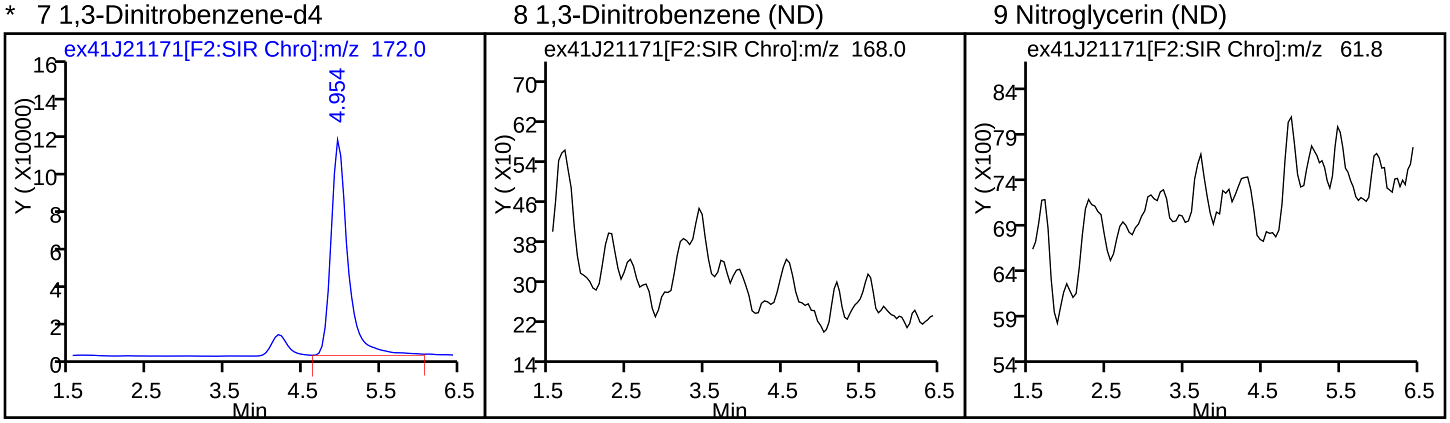
* 1 HMX-13C4 2 HMX (ND) 4 RDX (ND)



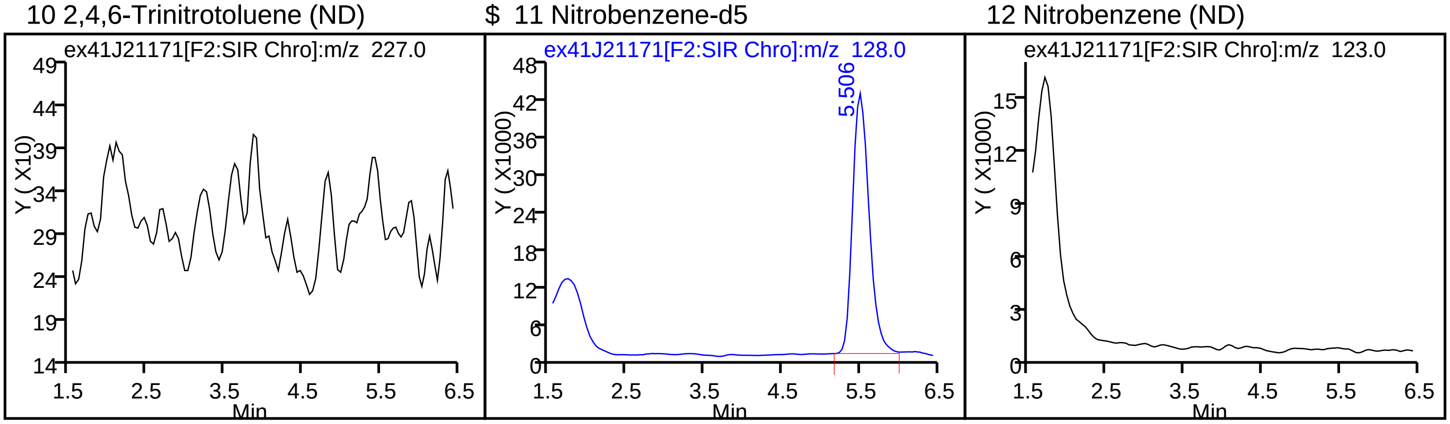
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri 5 1,3,5-Trinitrobenzene (ND) 6 Tetryl (ND)



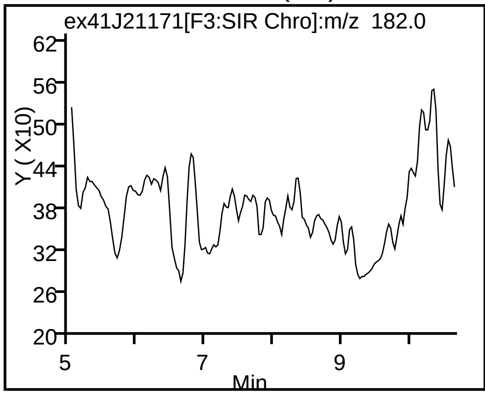
* 7 1,3-Dinitrobenzene-d4 8 1,3-Dinitrobenzene (ND) 9 Nitroglycerin (ND)



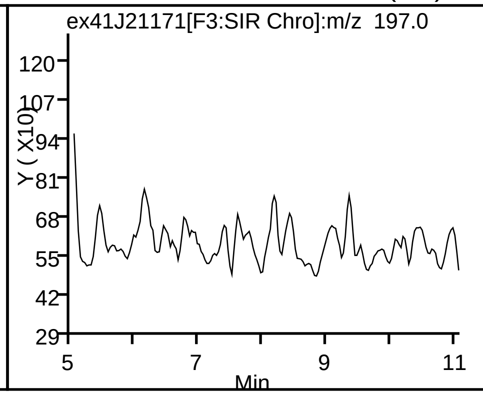
10 2,4,6-Trinitrotoluene (ND) $ 11 Nitrobenzene-d5 12 Nitrobenzene (ND)



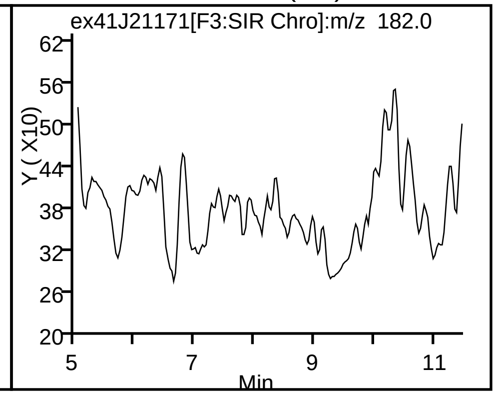
13 3,4-Dinitrotoluene (ND)



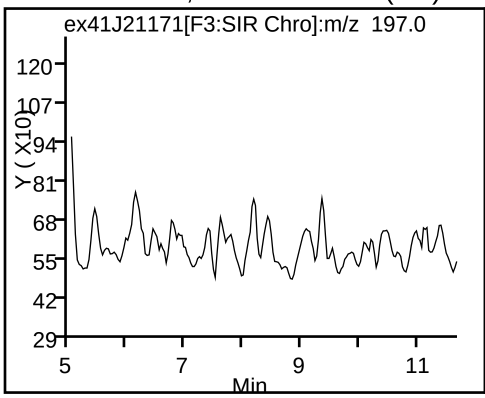
14 4-Amino-2,6-dinitrotoluene (ND)



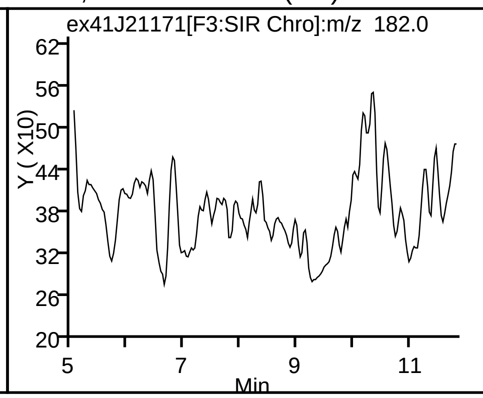
15 2,3-Dinitrotoluene (ND)



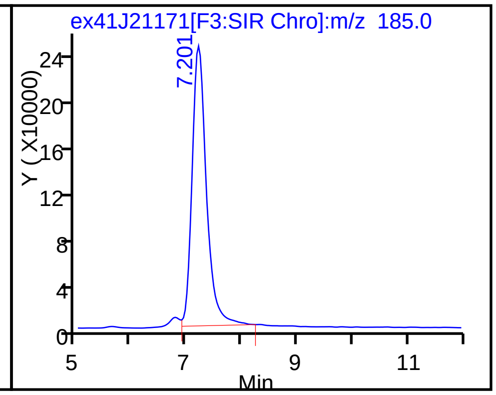
16 2-Amino-4,6-dinitrotoluene (ND)



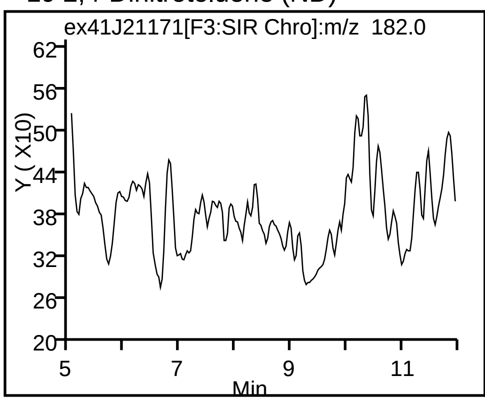
17 2,6-Dinitrotoluene (ND)



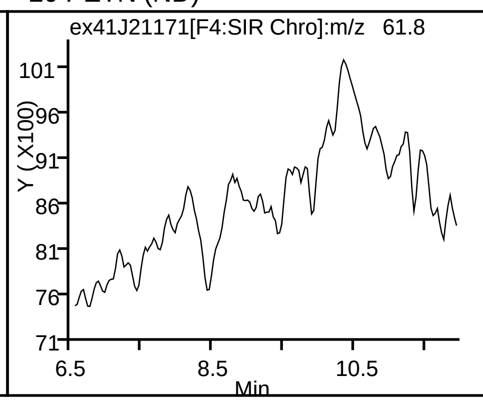
* 18 2,4-dinitrotoluene-d3



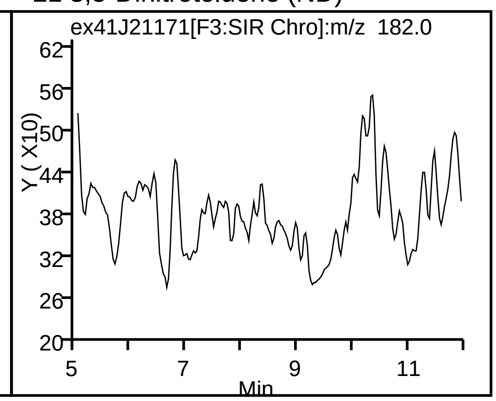
19 2,4-Dinitrotoluene (ND)



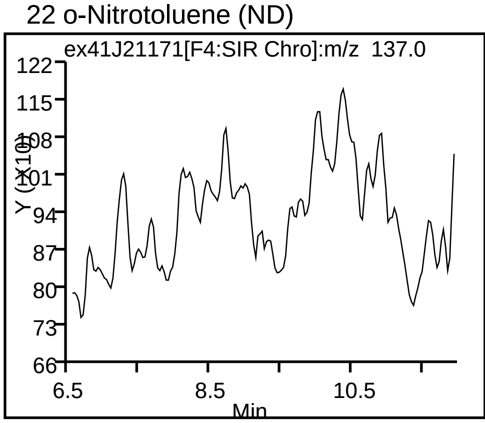
20 PETN (ND)



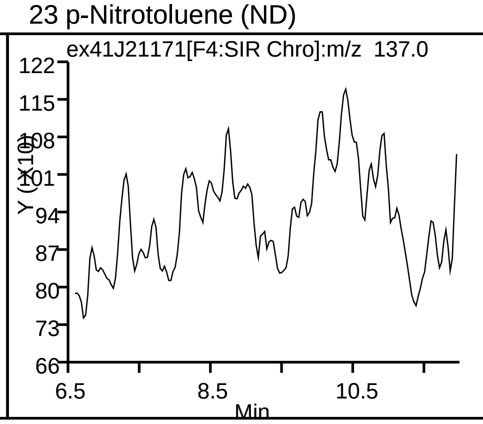
21 3,5-Dinitrotoluene (ND)



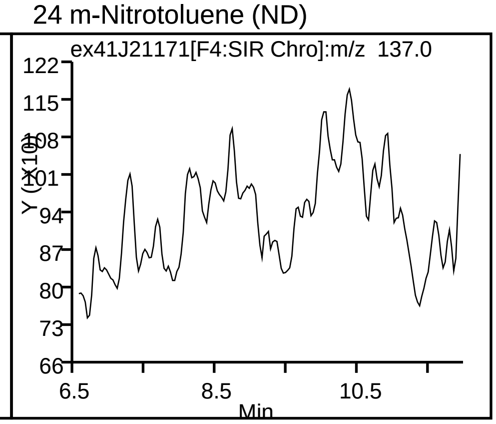
22 o-Nitrotoluene (ND)



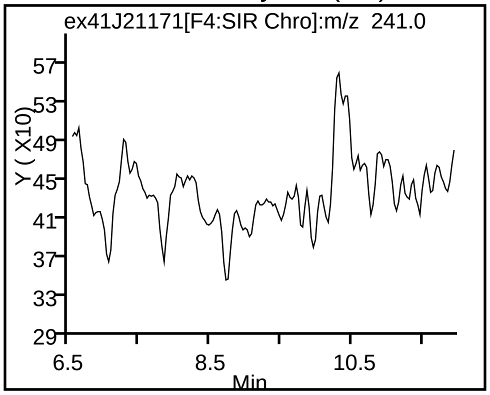
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG32 SB115 | Lab Sample ID: 280-21683-26

Matrix: Solid | Lab File ID: ex41J21173.d

Analysis Method: 8321B | Date Collected: 10/14/2011 14:10

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.12(g) | Date Analyzed: 10/25/2011 18:06

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21173.d		
Lims ID:	280-21683-A-26-C	Client ID:	SB115
Inject. Date:	25-Oct-2011 18:06:35	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-26-C 280-0002644-168		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	38
Lims Batch ID:	92961	Lims Sample ID:	168
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:19	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	26-Oct-2011 06:12:14

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		912401	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2993965	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1628845	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	657530	81.7			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4903297	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										
4	137.0		8.254							
23 p-Nitrotoluene										
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

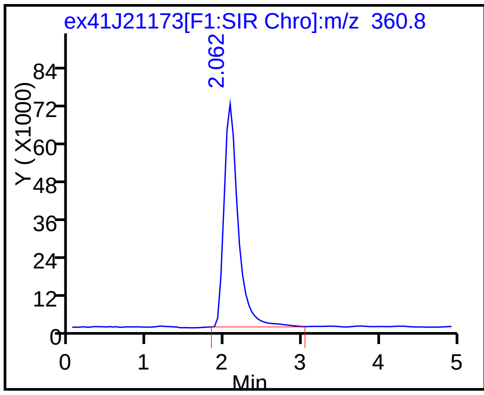
QC Flag Legend

Processing Flags
1 - Missing Peaks

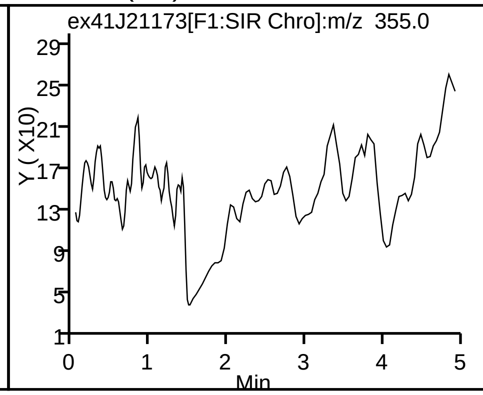
Report Date: 26-Oct-2011 06:24:20 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21173.d

Injection Date:	25-Oct-2011 18:06:35	Limit Group:	LC - 8321A Expl
Client ID:	SB115	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	168
Operator ID:		Injection Vol:	40.00 ul

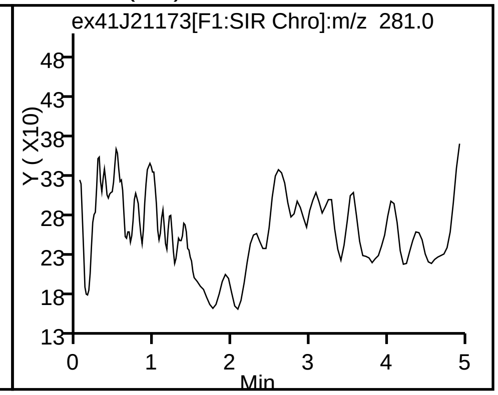
* 1 HMX-13C4



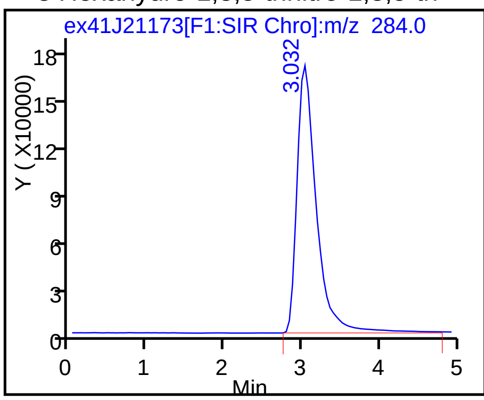
2 HMX (ND)



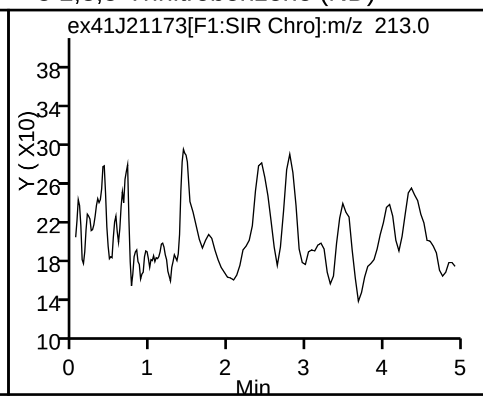
4 RDX (ND)



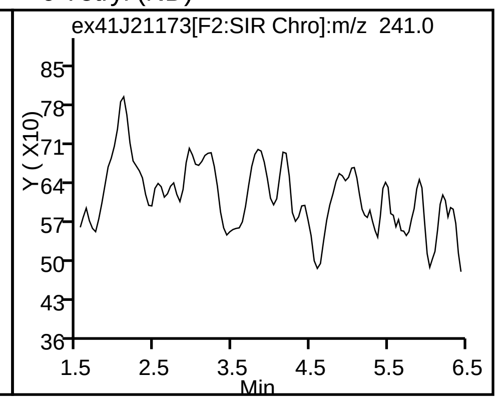
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



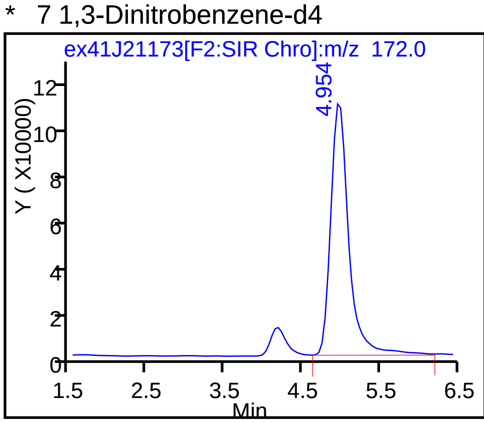
5 1,3,5-Trinitrobenzene (ND)



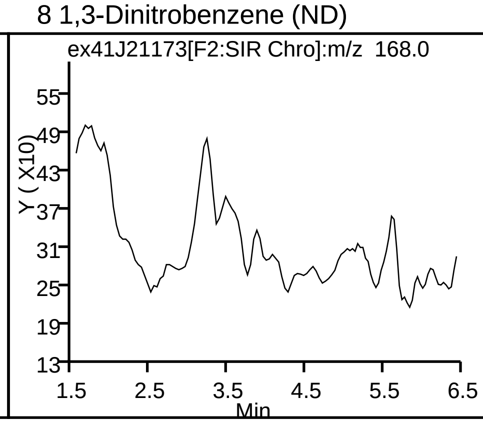
6 Tetryl (ND)



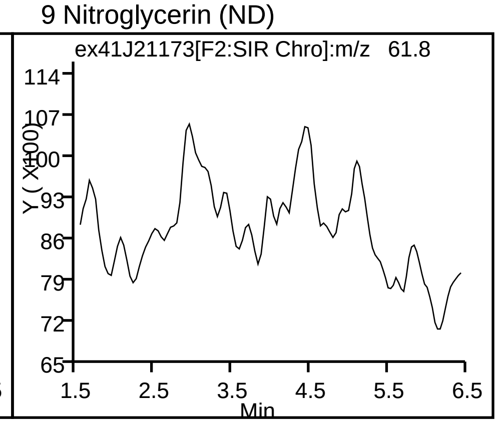
* 7 1,3-Dinitrobenzene-d4



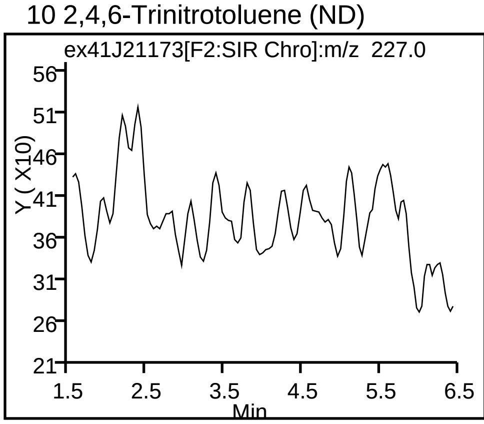
8 1,3-Dinitrobenzene (ND)



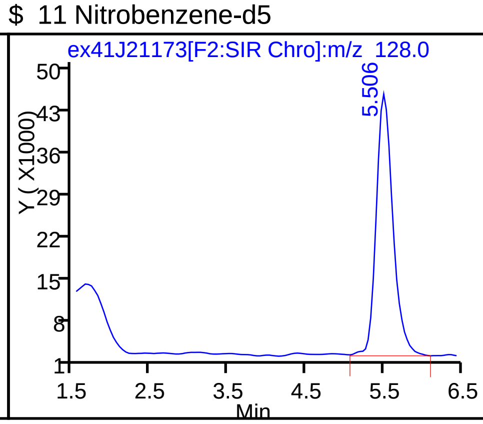
9 Nitroglycerin (ND)



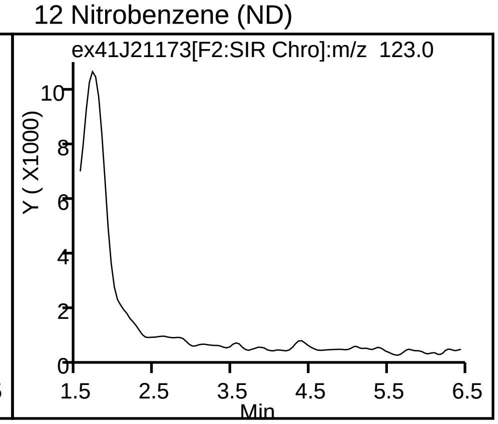
10 2,4,6-Trinitrotoluene (ND)



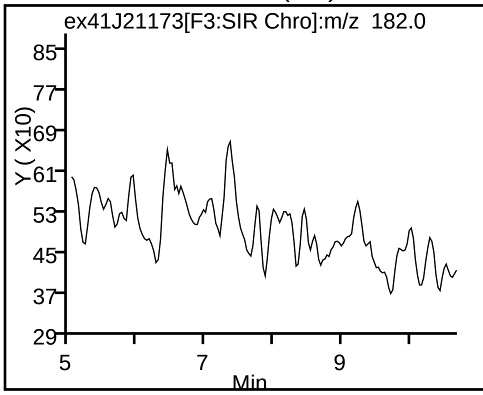
$ 11 Nitrobenzene-d5



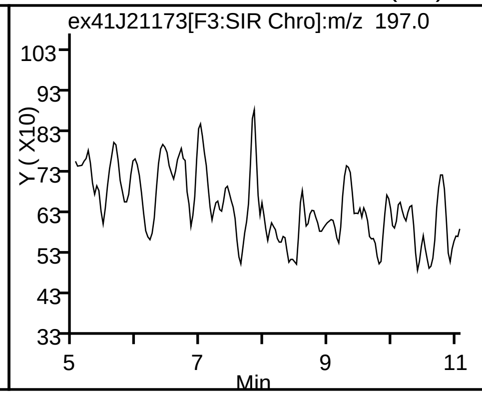
12 Nitrobenzene (ND)



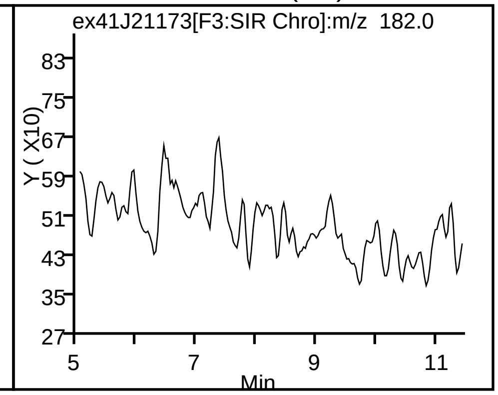
13 3,4-Dinitrotoluene (ND)



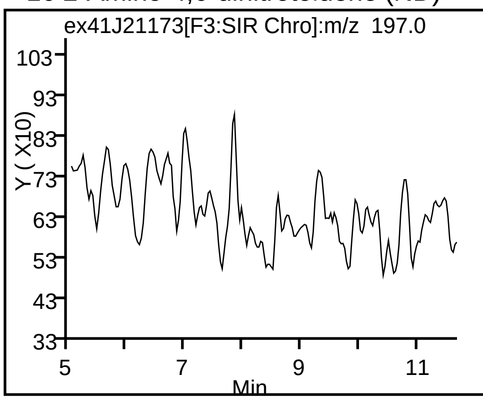
14 4-Amino-2,6-dinitrotoluene (ND)



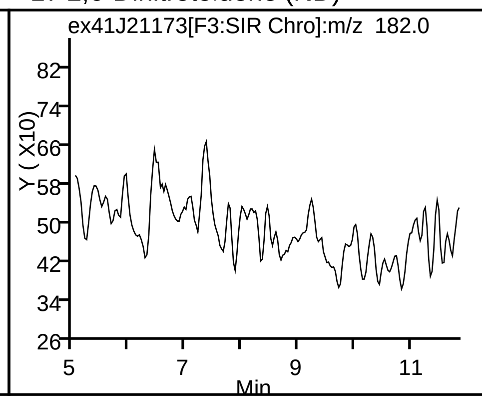
15 2,3-Dinitrotoluene (ND)



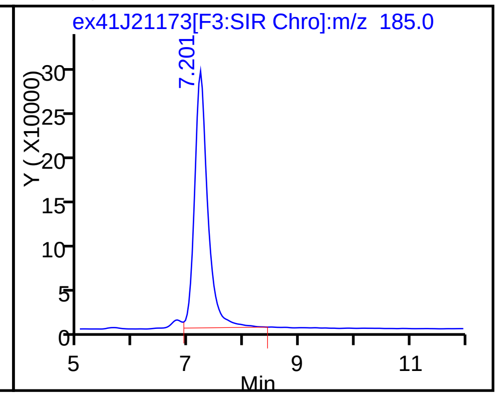
16 2-Amino-4,6-dinitrotoluene (ND)



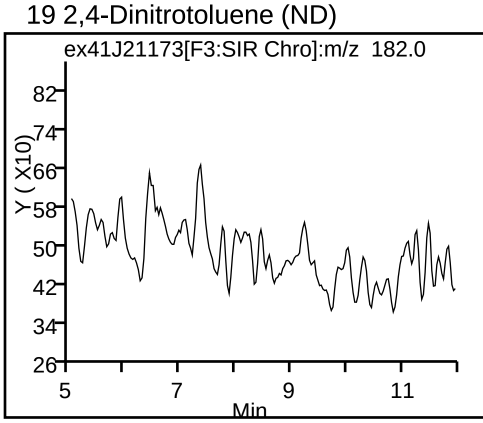
17 2,6-Dinitrotoluene (ND)



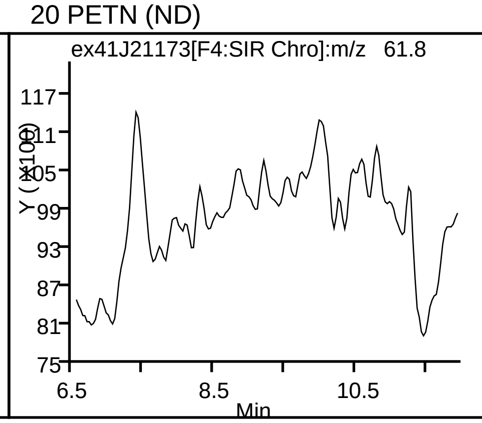
* 18 2,4-dinitrotoluene-d3



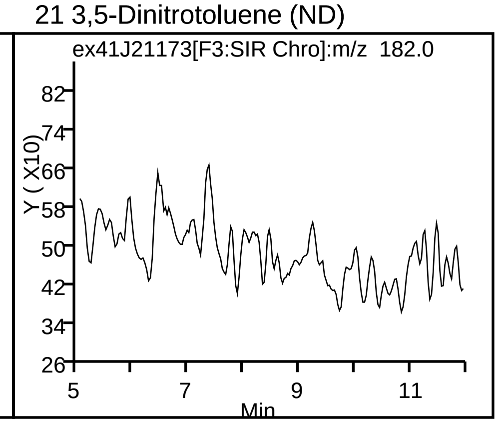
19 2,4-Dinitrotoluene (ND)



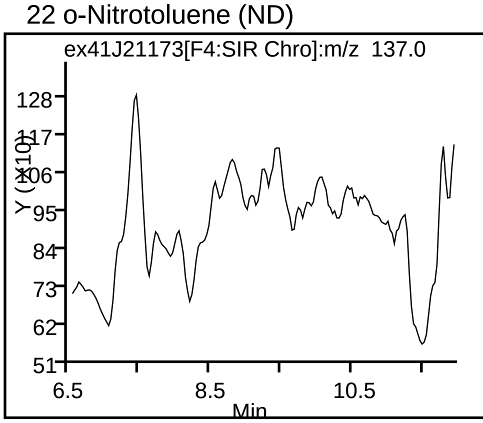
20 PETN (ND)



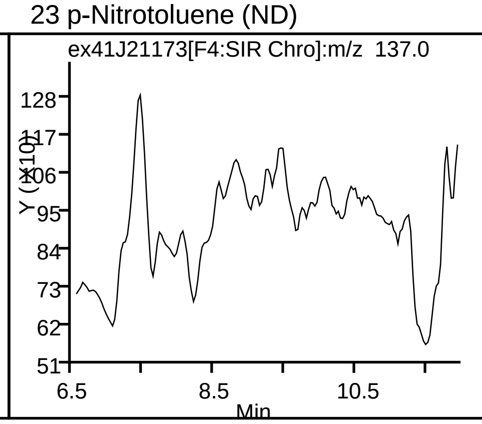
21 3,5-Dinitrotoluene (ND)



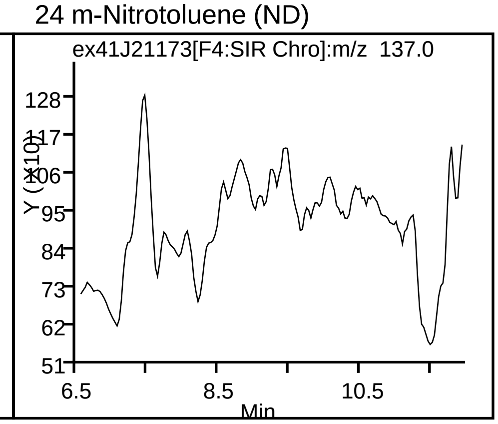
22 o-Nitrotoluene (ND)



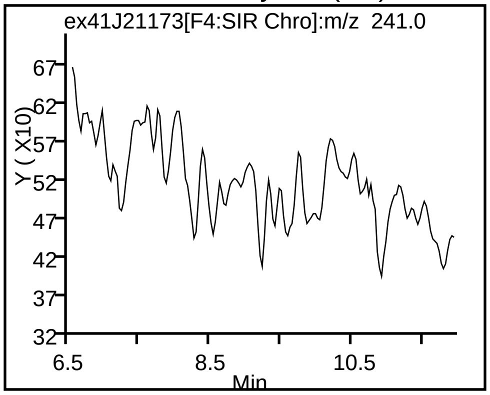
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG32 SB116   Lab Sample ID: 280-21683-27

Matrix: Solid   Lab File ID: ex41J21174.d

Analysis Method: 8321B   Date Collected: 10/14/2011 14:20

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.81(g)   Date Analyzed: 10/25/2011 18:20

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U Q	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.093	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0097
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21174.d		
Lims ID:	280-21683-B-27-B	Client ID:	SB116
Inject. Date:	25-Oct-2011 18:20:24	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-27-B 280-0002644-169		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	39
Lims Batch ID:	92961	Lims Sample ID:	169
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:19	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		882593	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3219926	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1797761	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	699495	78.7			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.459							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.201	0.000		4889191	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									1
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									
4	137.0		9.438							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.319							

QC Flag Legend

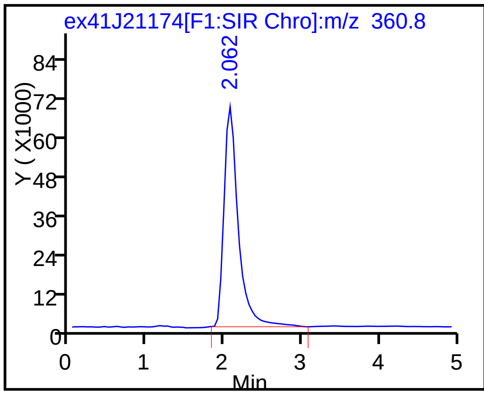
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 06:24:21 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21174.d

Injection Date:	25-Oct-2011 18:20:24	Limit Group:	LC - 8321A Expl
Client ID:	SB116	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	169
Operator ID:		Injection Vol:	40.00 ul

* 1 HMX-13C4



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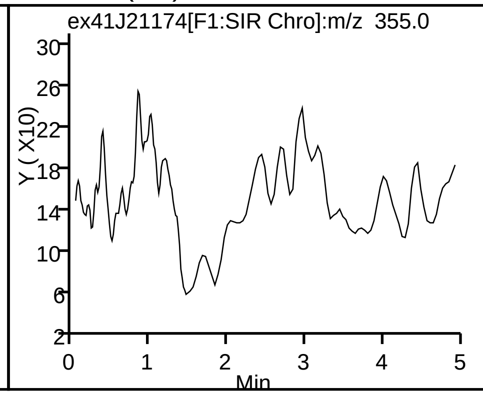
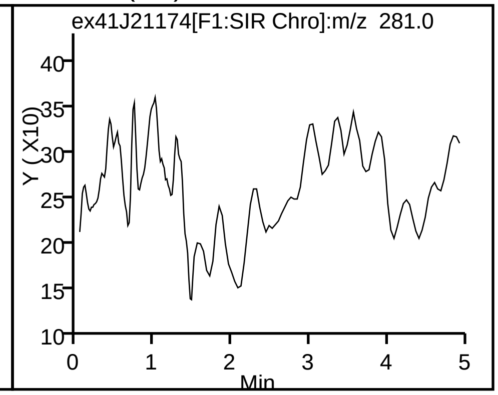
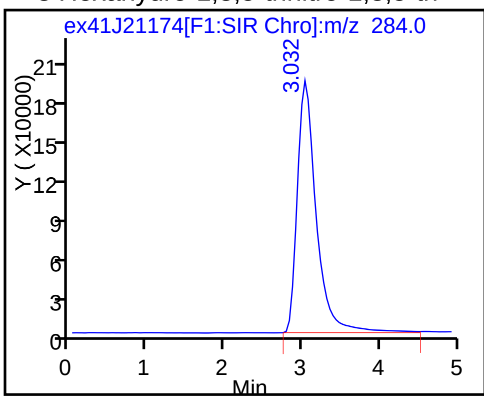


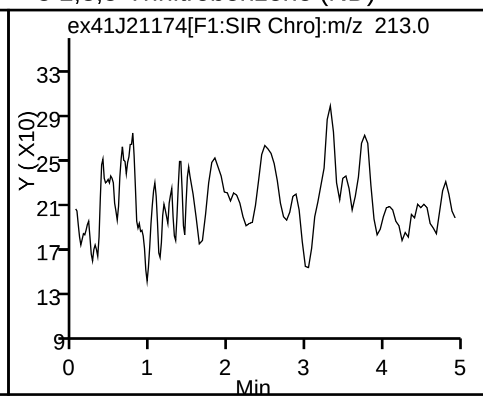
4 RDX (ND)



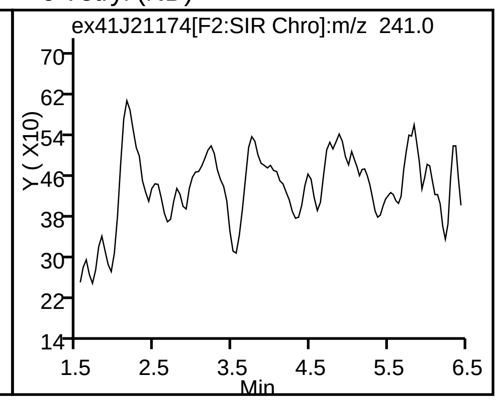
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



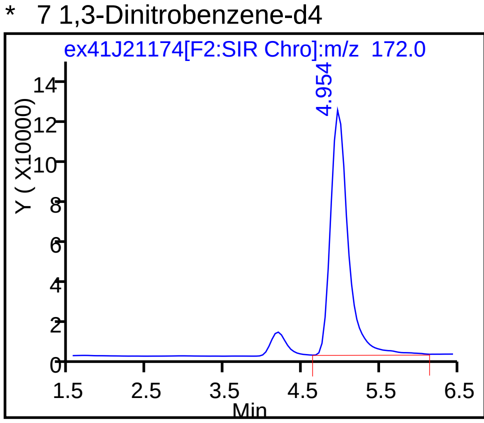
5 1,3,5-Trinitrobenzene (ND)



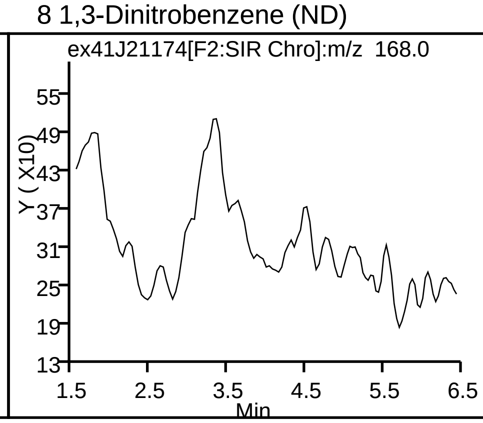
6 Tetryl (ND)



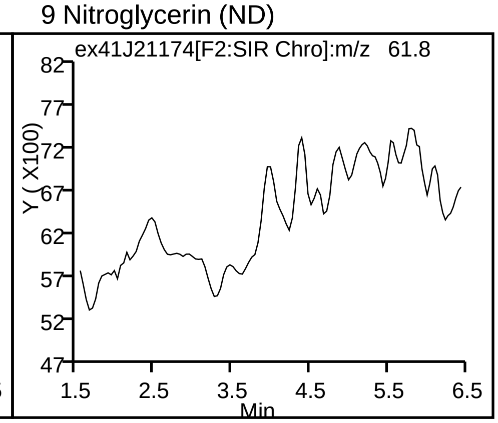
* 7 1,3-Dinitrobenzene-d4



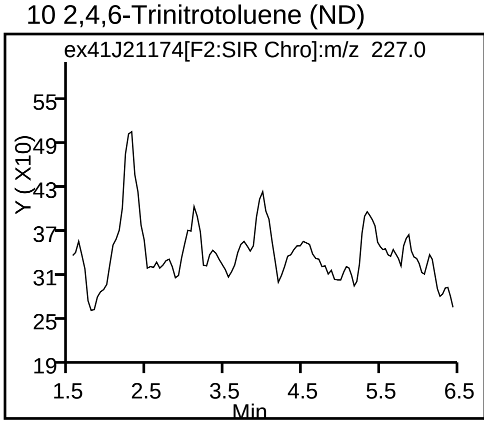
8 1,3-Dinitrobenzene (ND)



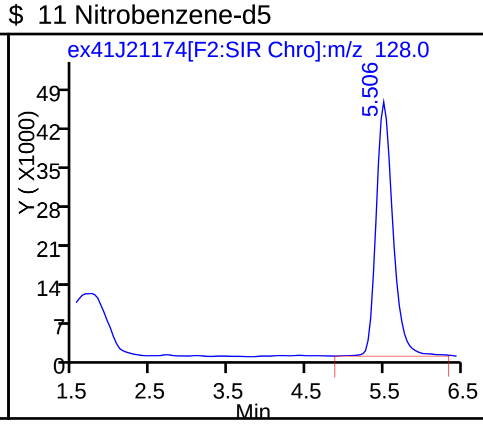
9 Nitroglycerin (ND)



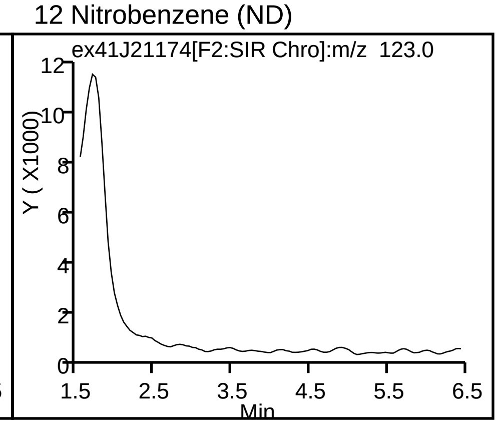
10 2,4,6-Trinitrotoluene (ND)



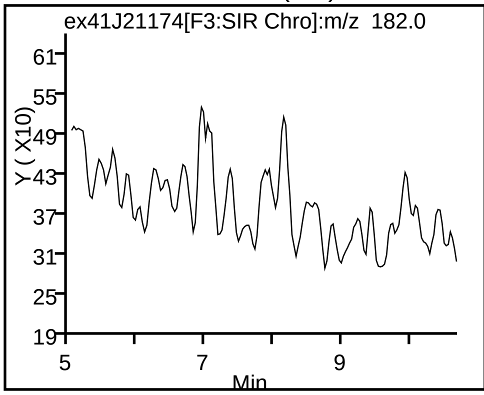
$ 11 Nitrobenzene-d5



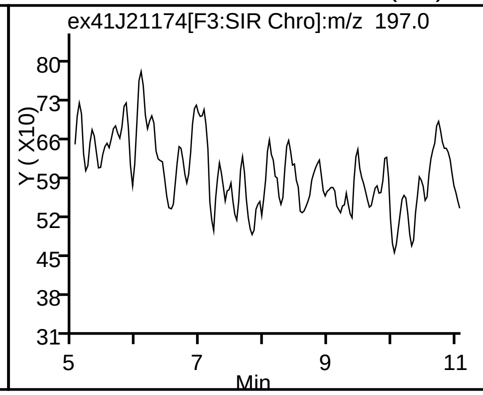
12 Nitrobenzene (ND)



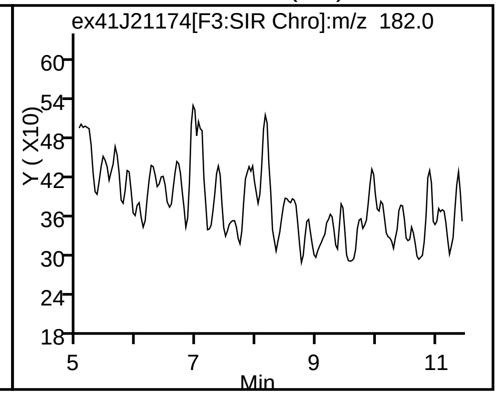
13 3,4-Dinitrotoluene (ND)



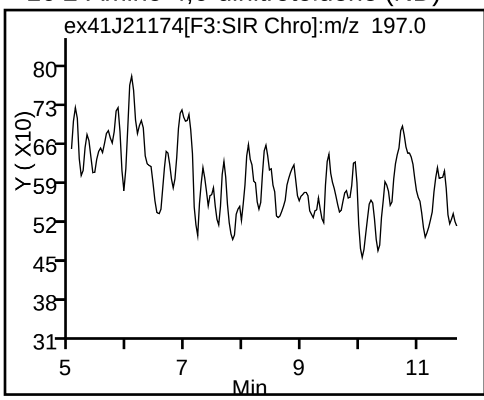
14 4-Amino-2,6-dinitrotoluene (ND)



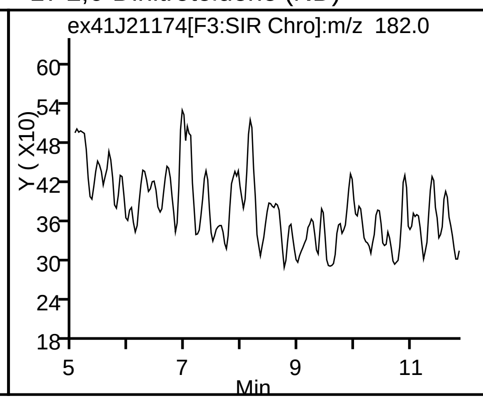
15 2,3-Dinitrotoluene (ND)



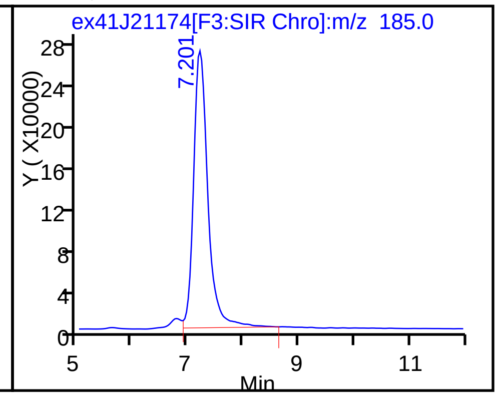
16 2-Amino-4,6-dinitrotoluene (ND)



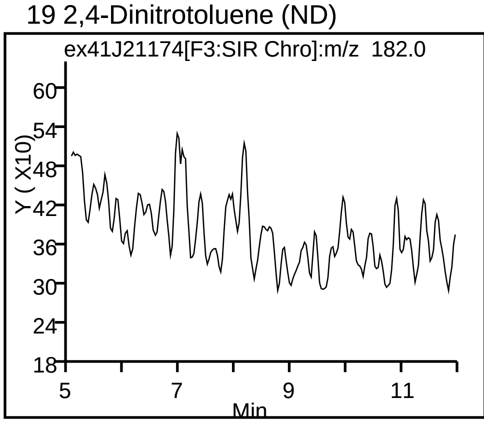
17 2,6-Dinitrotoluene (ND)



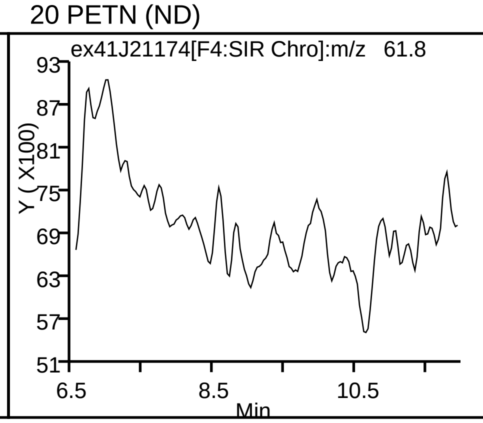
* 18 2,4-dinitrotoluene-d3



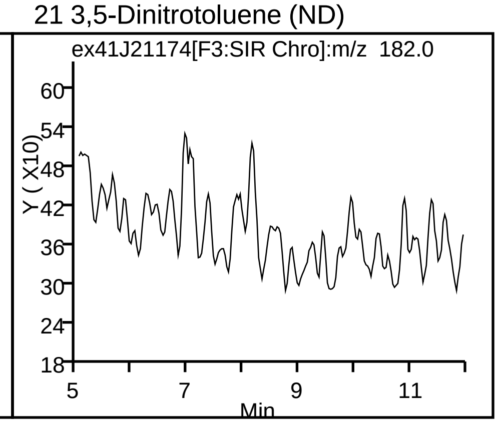
19 2,4-Dinitrotoluene (ND)



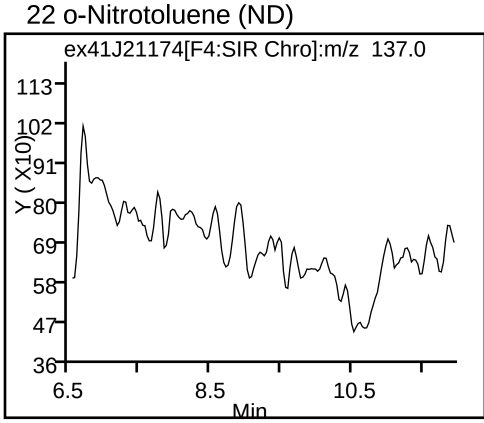
20 PETN (ND)



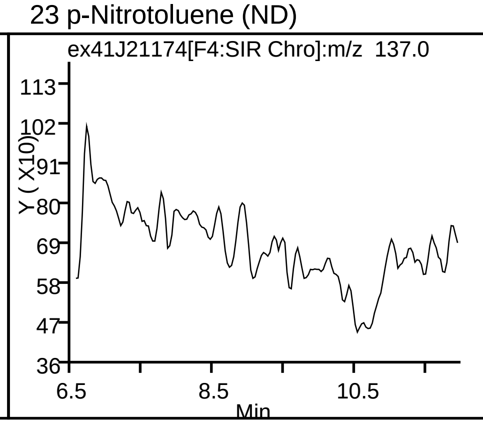
21 3,5-Dinitrotoluene (ND)



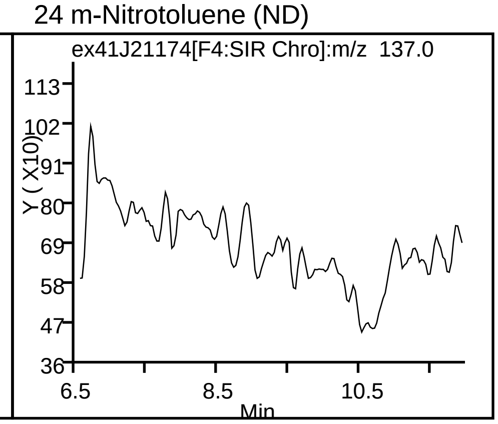
22 o-Nitrotoluene (ND)



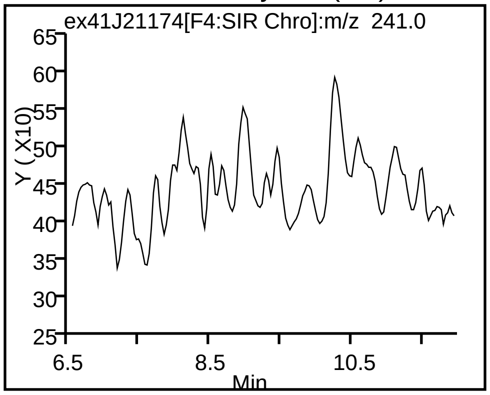
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG33 SB117   Lab Sample ID: 280-21683-28

Matrix: Solid   Lab File ID: ex41J21175.d

Analysis Method: 8321B   Date Collected: 10/15/2011 08:41

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.45(g)   Date Analyzed: 10/25/2011 18:33

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.096	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21175.d		
Lims ID:	280-21683-B-28-B	Client ID:	SB117
Inject. Date:	25-Oct-2011 18:33:59	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-28-B 280-0002644-170		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	40
Lims Batch ID:	92961	Lims Sample ID:	170
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:19	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		846405	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3354483	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1670131	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	653373	79.2			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.459							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.170	7.201	-0.031		5210747	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									
4	137.0		9.438							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.319							

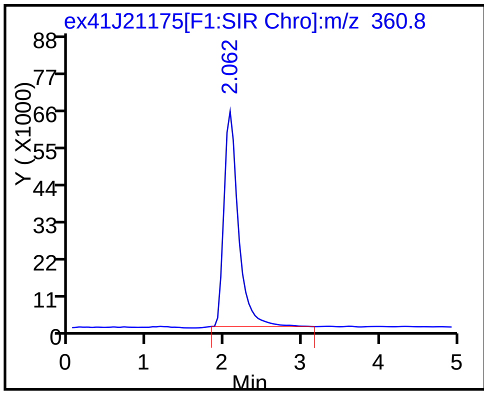
QC Flag Legend

Processing Flags
1 - Missing Peaks

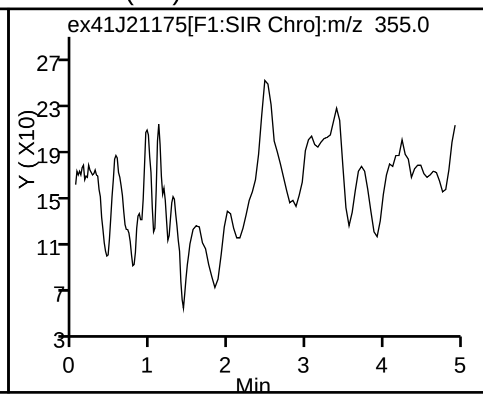
Report Date: 26-Oct-2011 06:24:22 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21175.d		
Injection Date:	25-Oct-2011 18:33:59	Limit Group:	LC - 8321A Expl
Client ID:	SB117	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	170
Operator ID:		Injection Vol:	40.00 ul

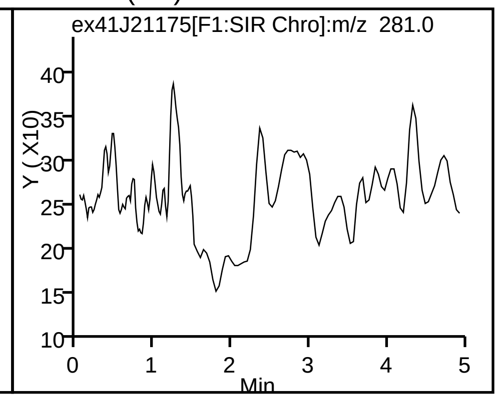
* 1 HMX-13C4



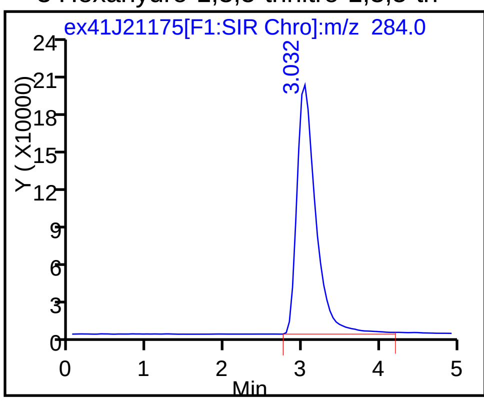
2 HMX (ND)



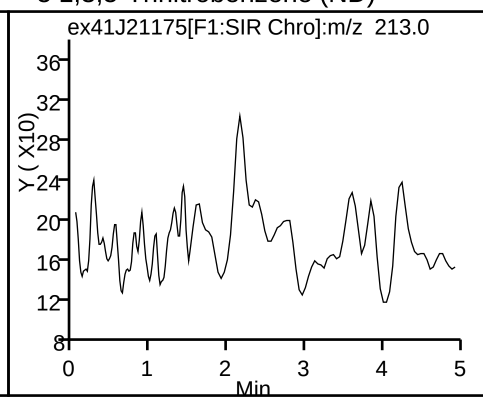
4 RDX (ND)



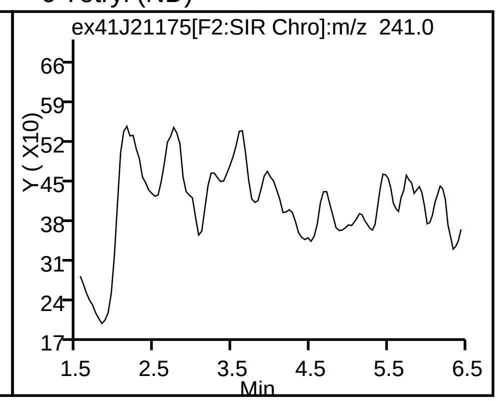
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



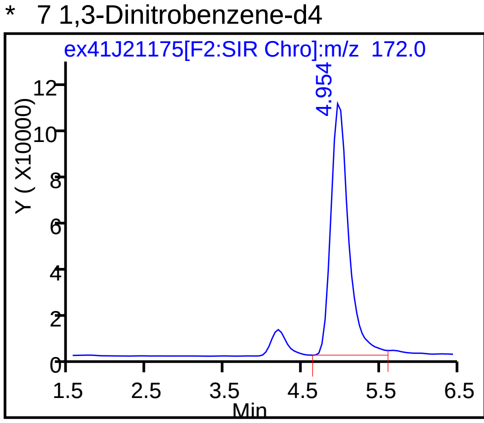
5 1,3,5-Trinitrobenzene (ND)



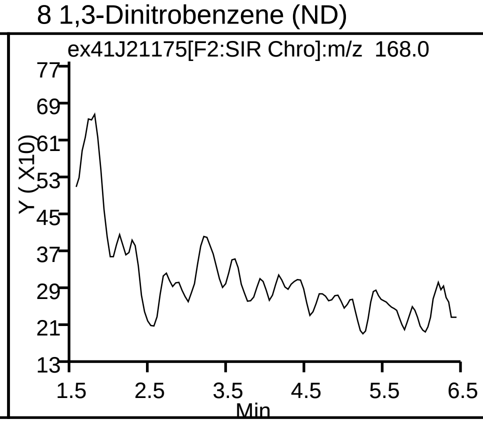
6 Tetryl (ND)



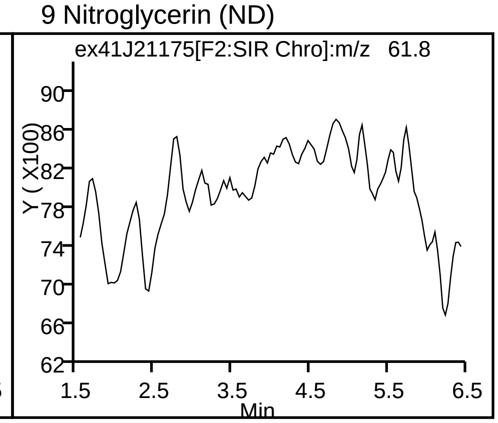
* 7 1,3-Dinitrobenzene-d4



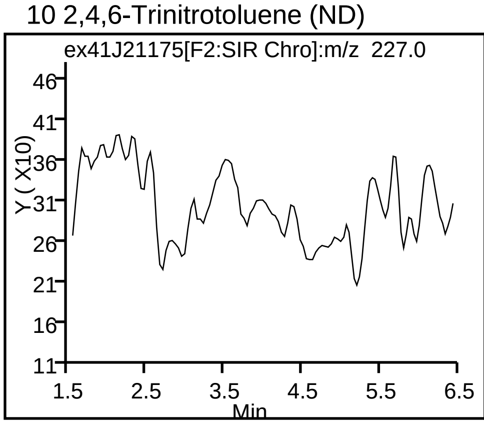
8 1,3-Dinitrobenzene (ND)



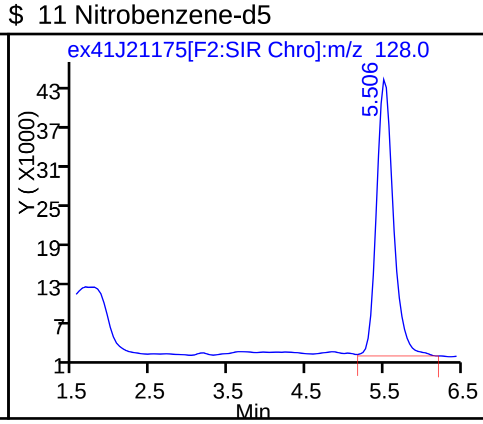
9 Nitroglycerin (ND)



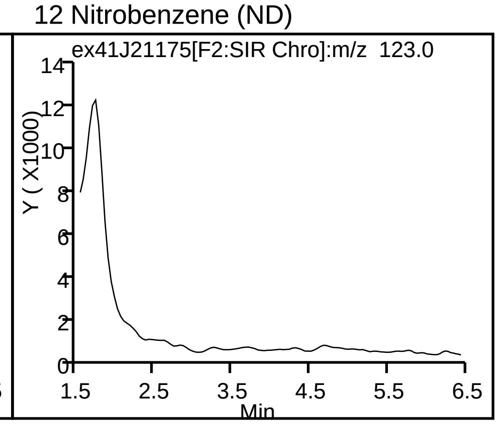
10 2,4,6-Trinitrotoluene (ND)



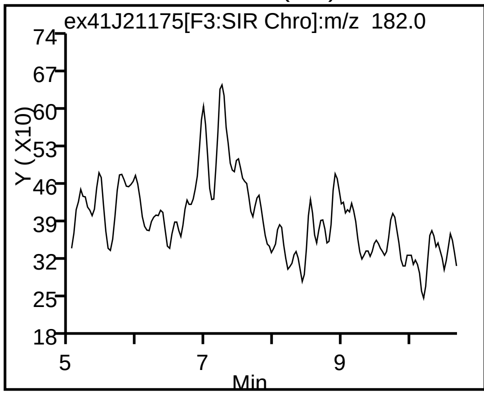
$ 11 Nitrobenzene-d5



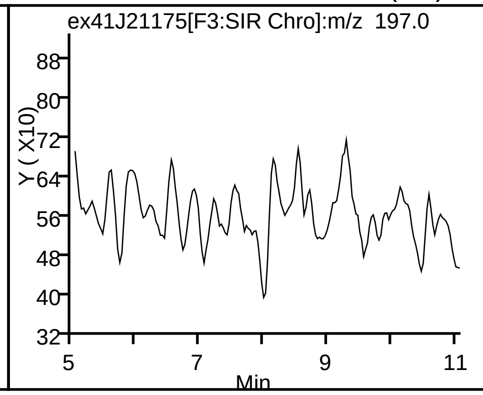
12 Nitrobenzene (ND)



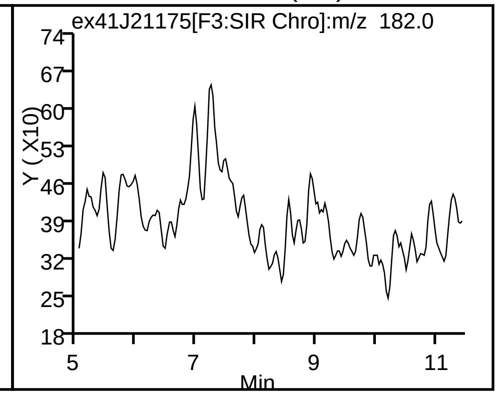
13 3,4-Dinitrotoluene (ND)



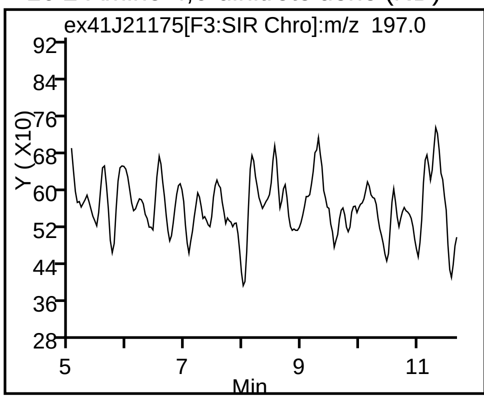
14 4-Amino-2,6-dinitrotoluene (ND)



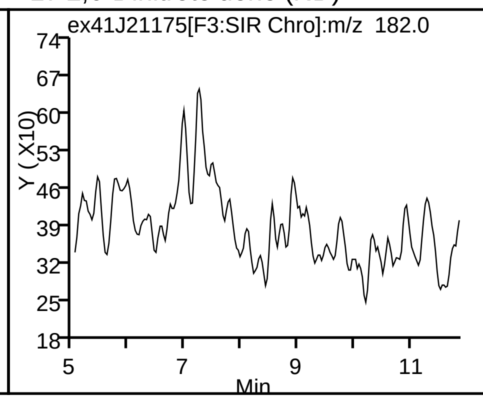
15 2,3-Dinitrotoluene (ND)



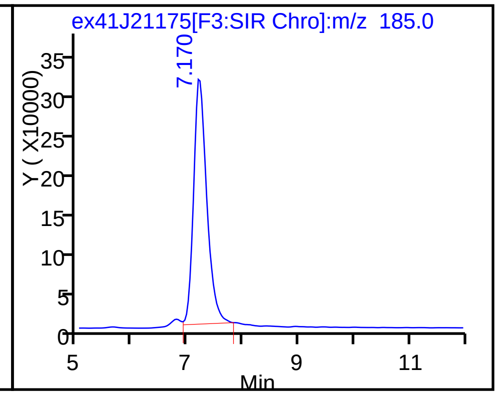
16 2-Amino-4,6-dinitrotoluene (ND)



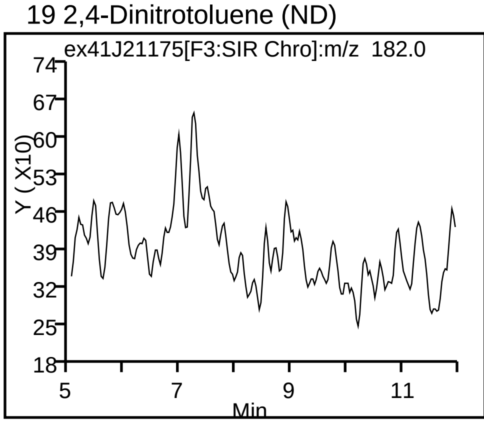
17 2,6-Dinitrotoluene (ND)



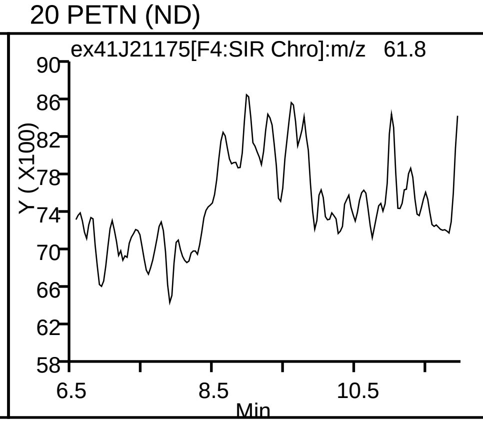
* 18 2,4-dinitrotoluene-d3



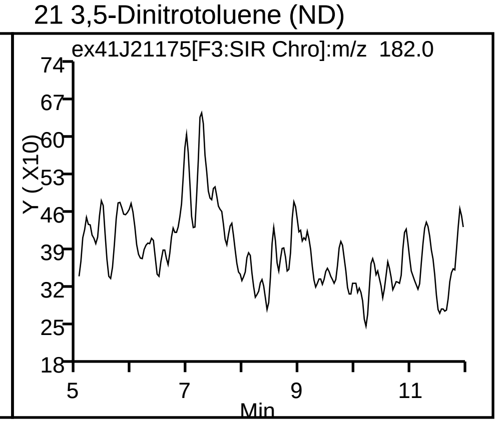
19 2,4-Dinitrotoluene (ND)



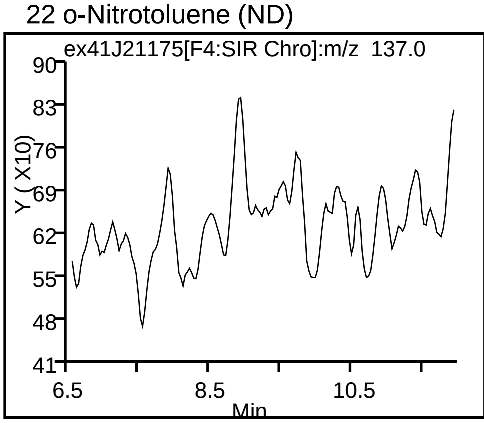
20 PETN (ND)



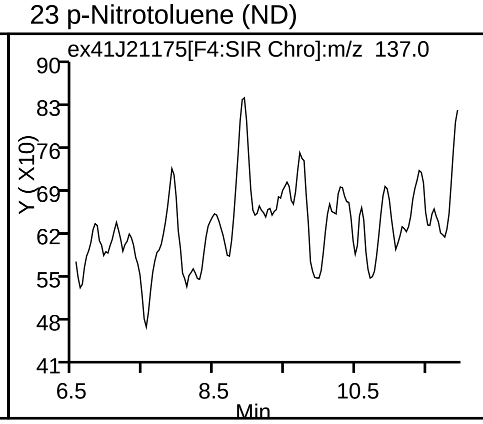
21 3,5-Dinitrotoluene (ND)



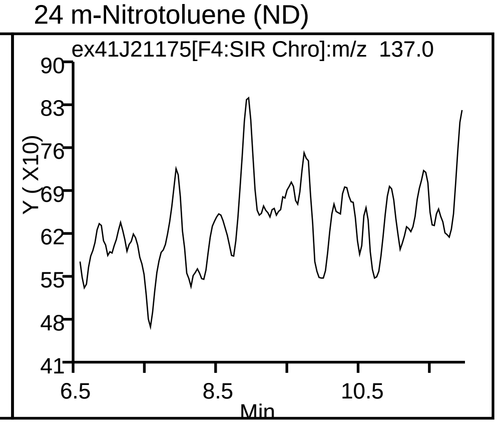
22 o-Nitrotoluene (ND)



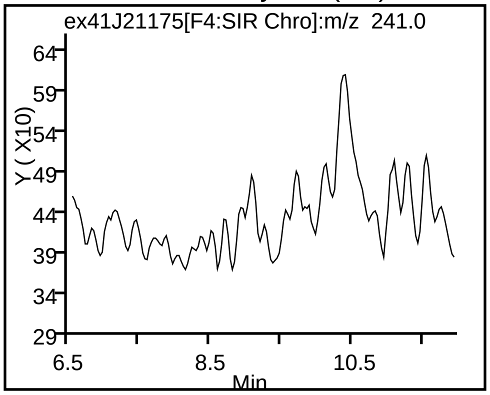
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG33 SB119 | Lab Sample ID: 280-21683-29

Matrix: Solid | Lab File ID: ex41J21176.d

Analysis Method: 8321B | Date Collected: 10/15/2011 08:41

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.77(g) | Date Analyzed: 10/25/2011 18:47

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U Q	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.093	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0097
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21176.d		
Lims ID:	280-21683-B-29-B	Client ID:	SB119
Inject. Date:	25-Oct-2011 18:47:33	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-29-B 280-0002644-171		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	41
Lims Batch ID:	92961	Lims Sample ID:	171
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:19	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	26-Oct-2011 06:12:38

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		887687	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2809161	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1792020	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	651065	73.5			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5121479	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

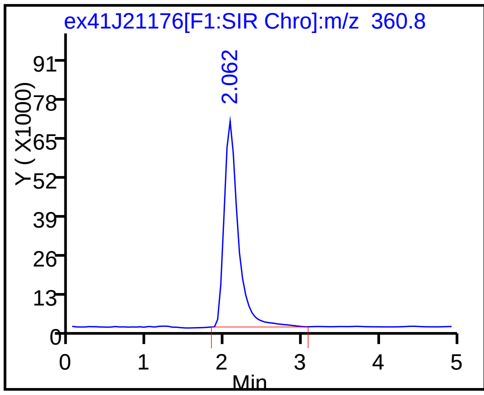
QC Flag Legend

Processing Flags
1 - Missing Peaks

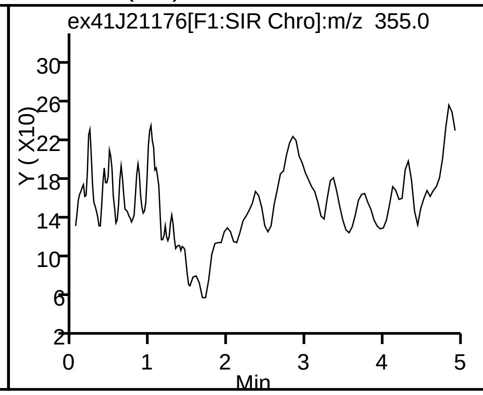
Report Date: 26-Oct-2011 06:24:22 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21176.d

Injection Date:	25-Oct-2011 18:47:33	Limit Group:	LC - 8321A Expl
Client ID:	SB119	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	171
Operator ID:		Injection Vol:	40.00 ul

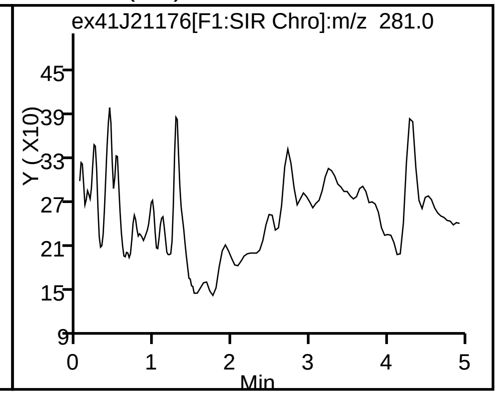
* 1 HMX-13C4



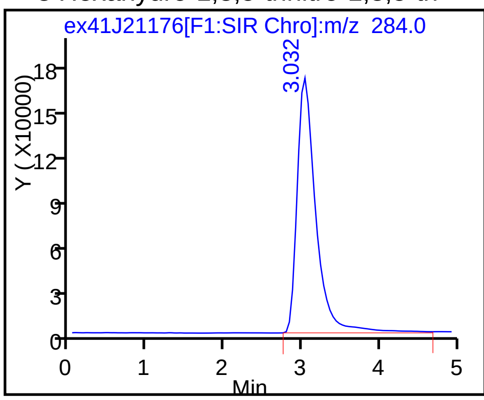
2 HMX (ND)



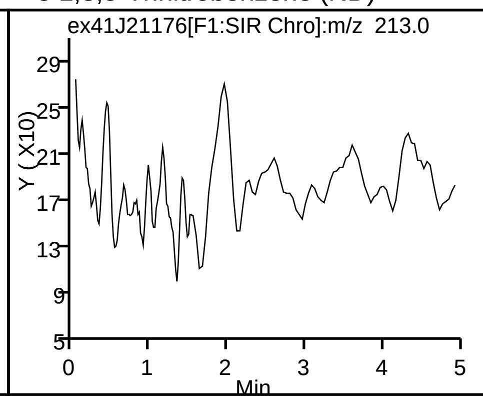
4 RDX (ND)



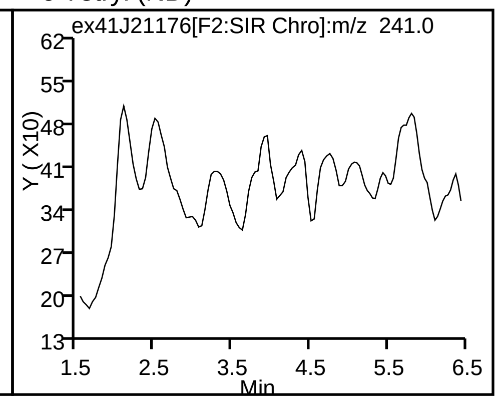
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



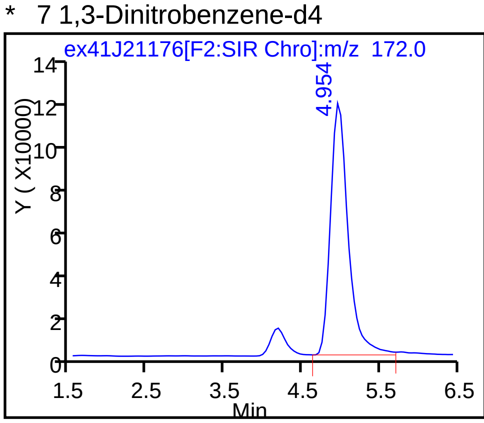
5 1,3,5-Trinitrobenzene (ND)



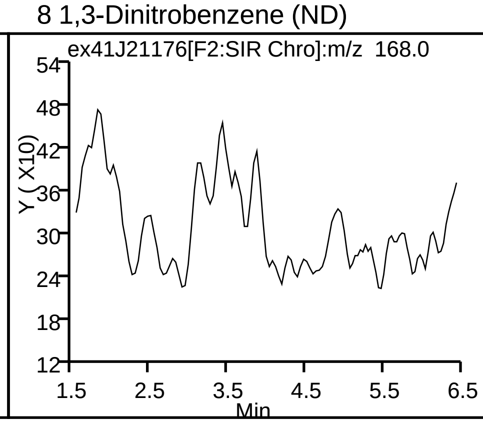
6 Tetryl (ND)



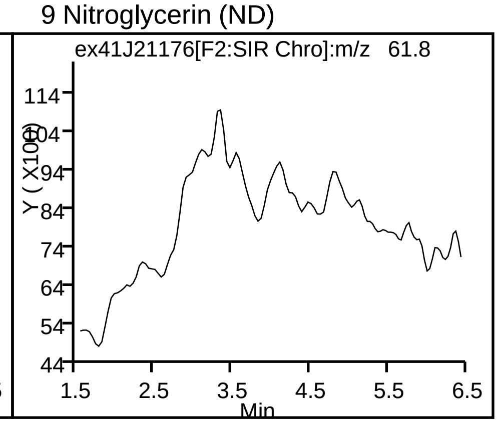
* 7 1,3-Dinitrobenzene-d4



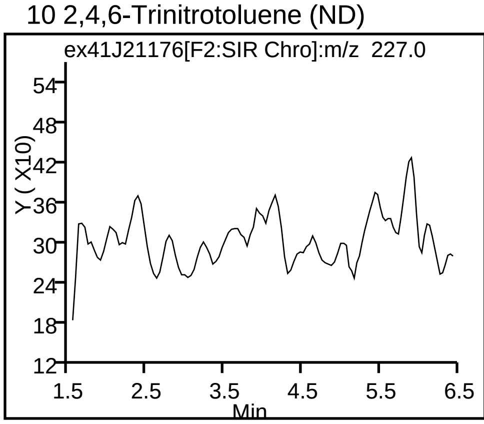
8 1,3-Dinitrobenzene (ND)



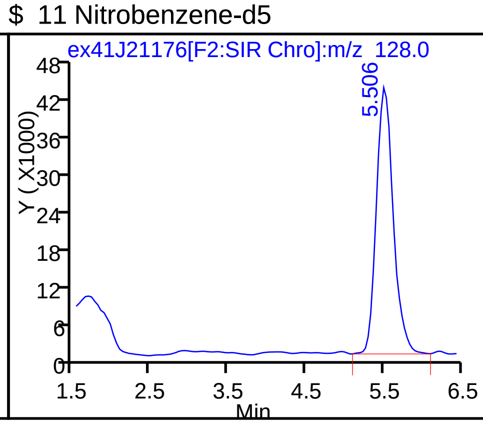
9 Nitroglycerin (ND)



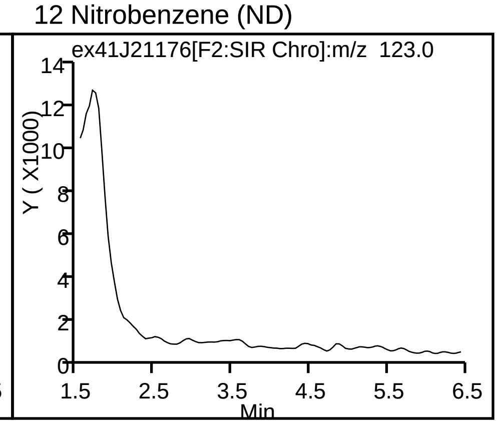
10 2,4,6-Trinitrotoluene (ND)



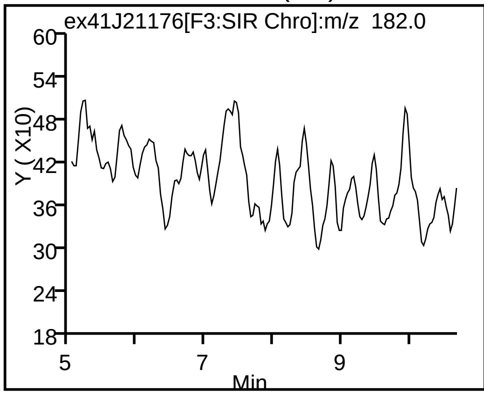
$ 11 Nitrobenzene-d5



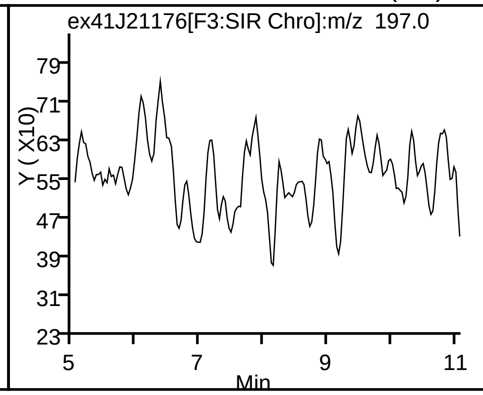
12 Nitrobenzene (ND)



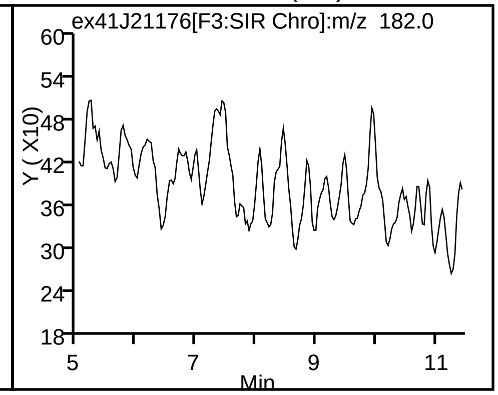
13 3,4-Dinitrotoluene (ND)



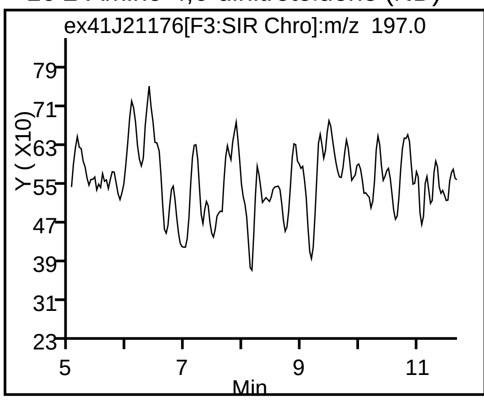
14 4-Amino-2,6-dinitrotoluene (ND)



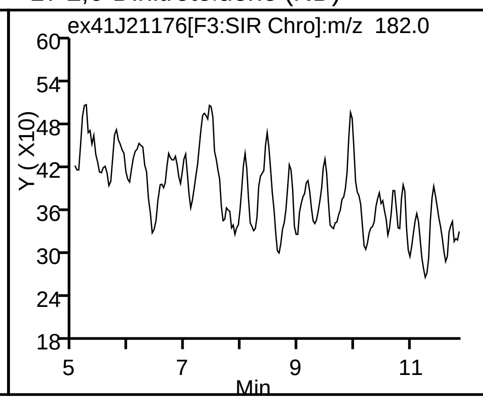
15 2,3-Dinitrotoluene (ND)



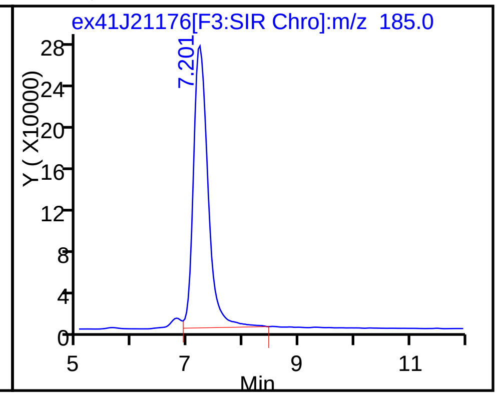
16 2-Amino-4,6-dinitrotoluene (ND)



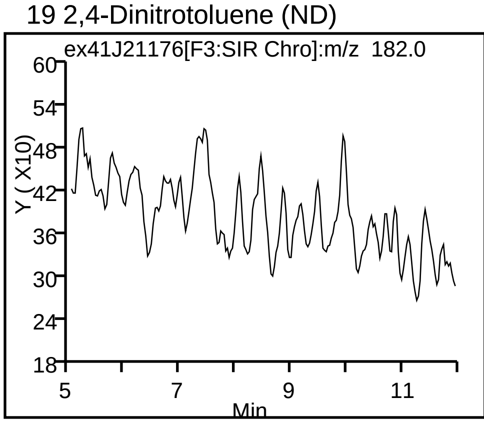
17 2,6-Dinitrotoluene (ND)



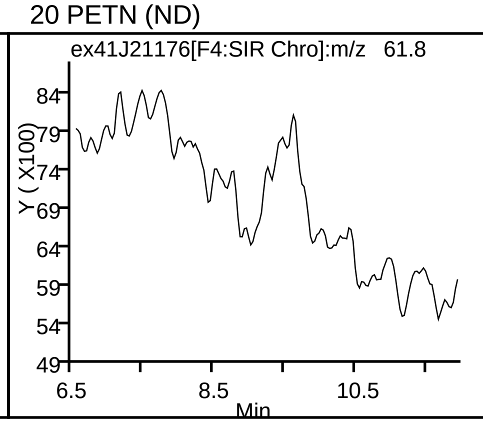
* 18 2,4-dinitrotoluene-d3



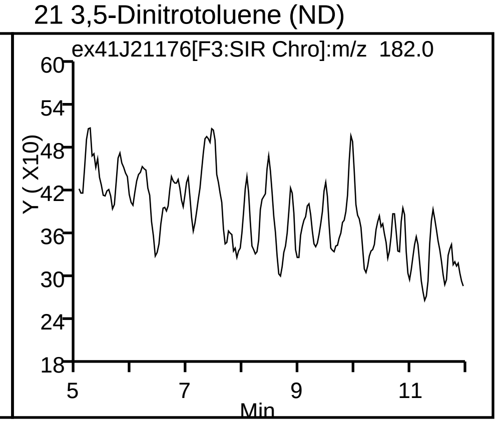
19 2,4-Dinitrotoluene (ND)



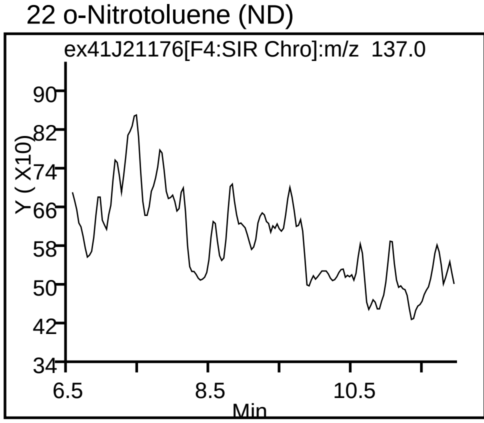
20 PETN (ND)



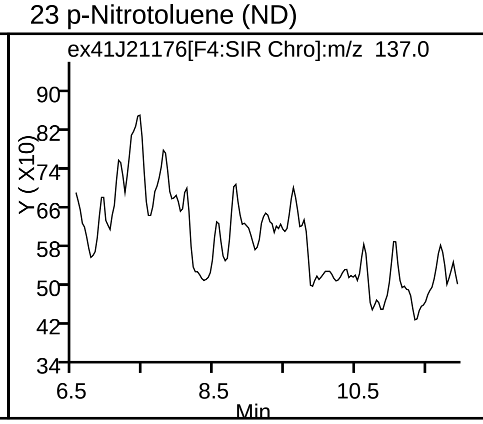
21 3,5-Dinitrotoluene (ND)



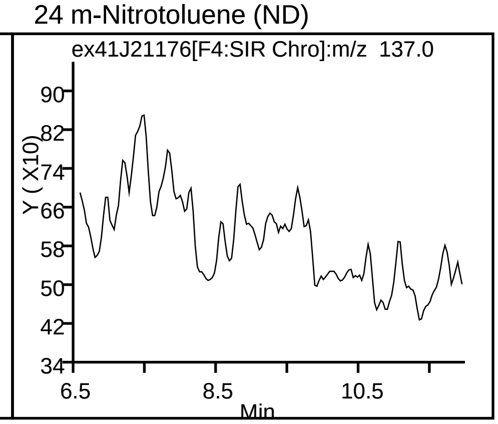
22 o-Nitrotoluene (ND)



23 p-Nitrotoluene (ND)

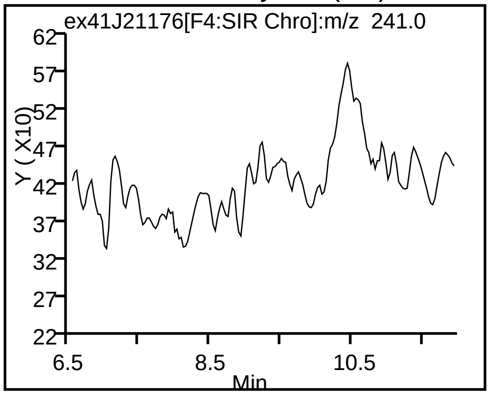


24 m-Nitrotoluene (ND)



Report Date: 26-Oct-2011 06:24:22 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21176.d

25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG33 SB118 | Lab Sample ID: 280-21683-30

Matrix: Solid | Lab File ID: ex41J21177.d

Analysis Method: 8321B | Date Collected: 10/15/2011 08:53

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.06(g) | Date Analyzed: 10/25/2011 19:01

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21177.d		
Lims ID:	280-21683-A-30-C	Client ID:	SB118
Inject. Date:	25-Oct-2011 19:01:07	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-30-C 280-0002644-172		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	42
Lims Batch ID:	92961	Lims Sample ID:	172
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:19	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 26-Oct-2011 06:12:48

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		785502	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2480622	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1646208	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	614223	75.5			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.201	-0.031		5286157	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

QC Flag Legend

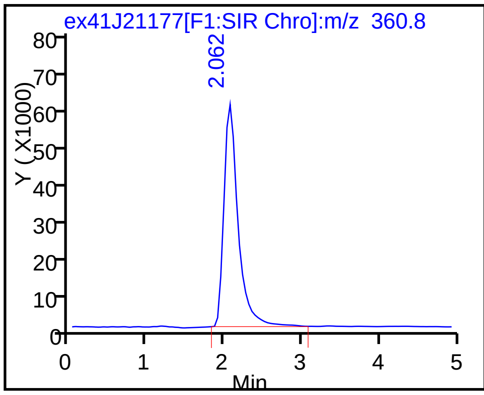
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 06:24:23 — Chrom Revision: 1.2 13-Jul-2011 10:43:06

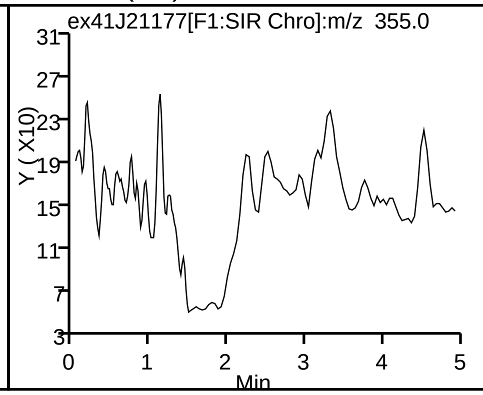
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21177.d

Injection Date:	25-Oct-2011 19:01:07	Limit Group:	LC - 8321A Expl
Client ID:	SB118	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	172
Operator ID:		Injection Vol:	40.00 ul

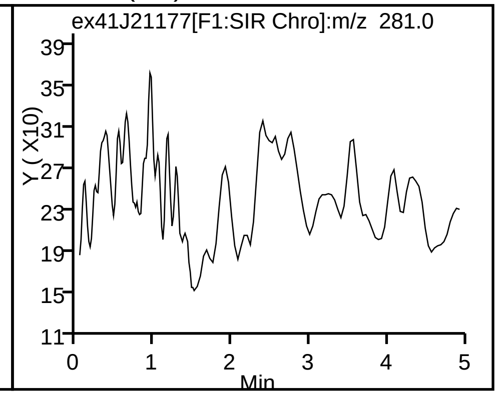
* 1 HMX-13C4



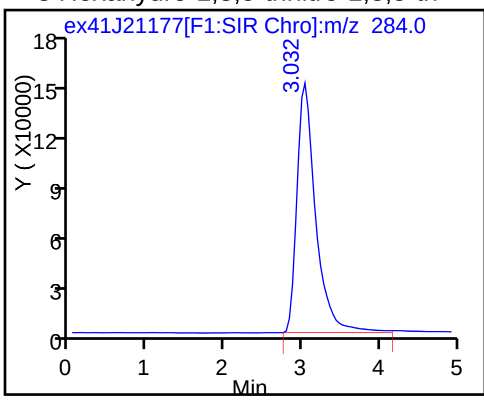
2 HMX (ND)



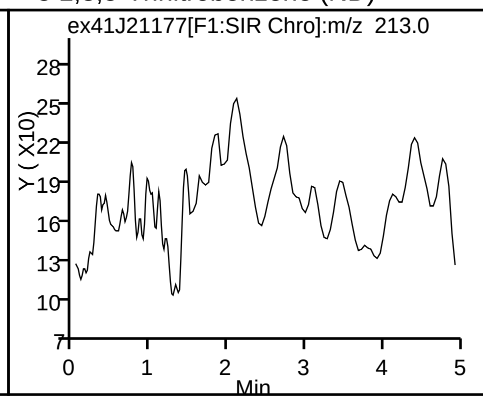
4 RDX (ND)



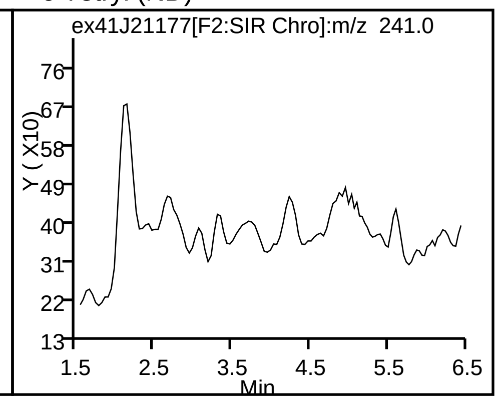
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



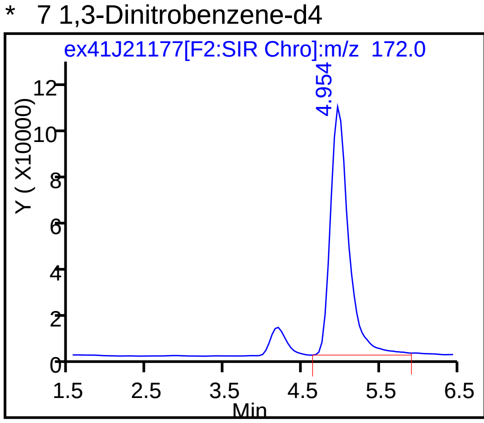
5 1,3,5-Trinitrobenzene (ND)



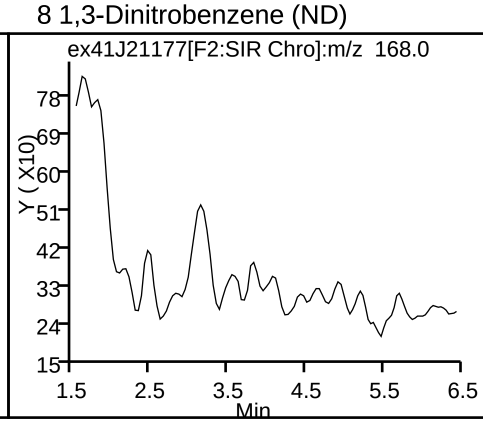
6 Tetryl (ND)



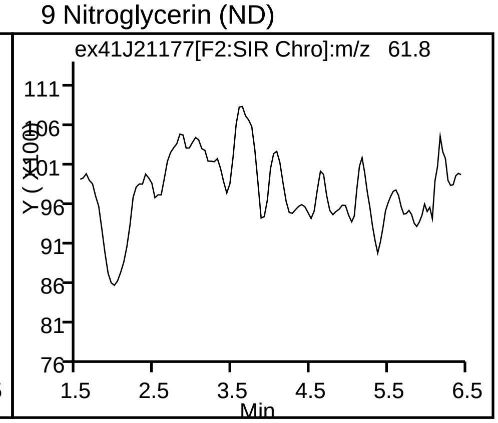
* 7 1,3-Dinitrobenzene-d4



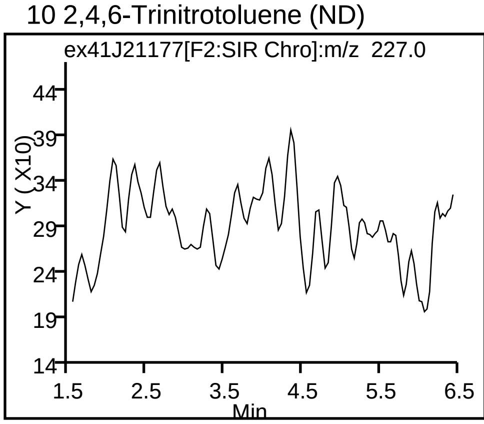
8 1,3-Dinitrobenzene (ND)



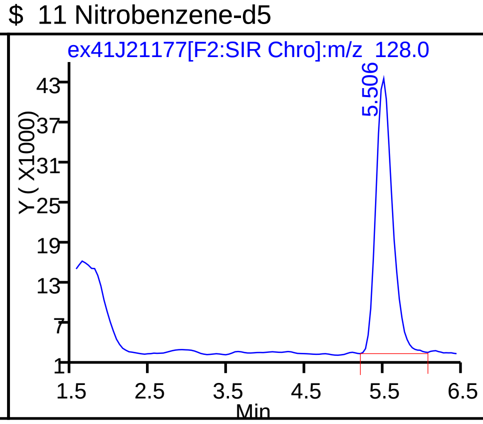
9 Nitroglycerin (ND)



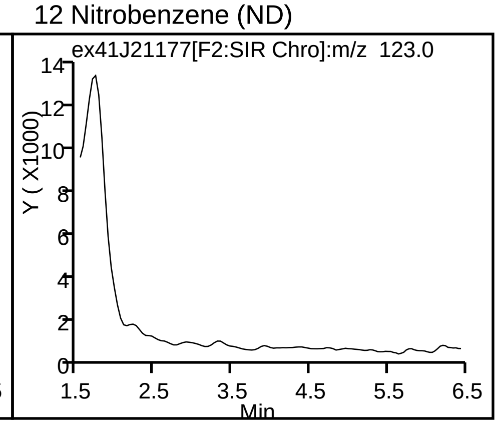
10 2,4,6-Trinitrotoluene (ND)



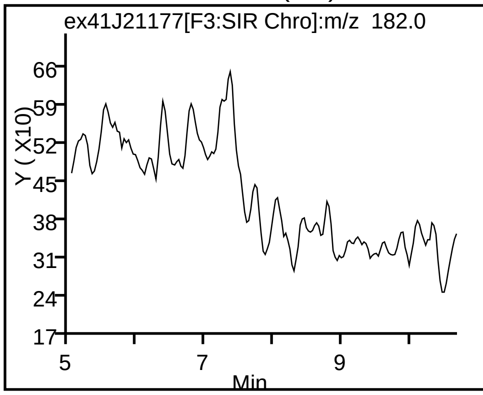
$ 11 Nitrobenzene-d5



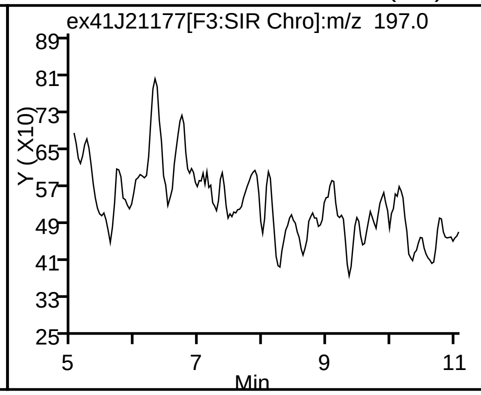
12 Nitrobenzene (ND)



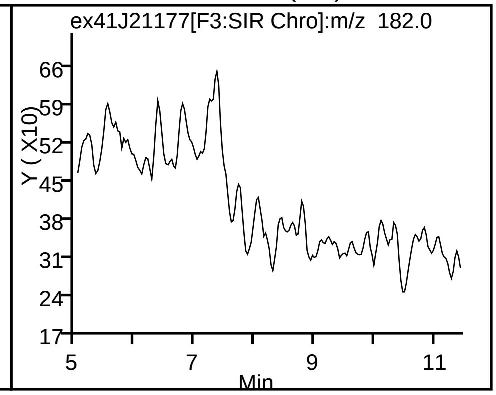
13 3,4-Dinitrotoluene (ND)



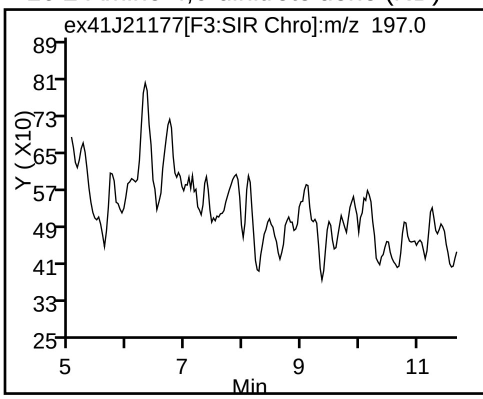
14 4-Amino-2,6-dinitrotoluene (ND)



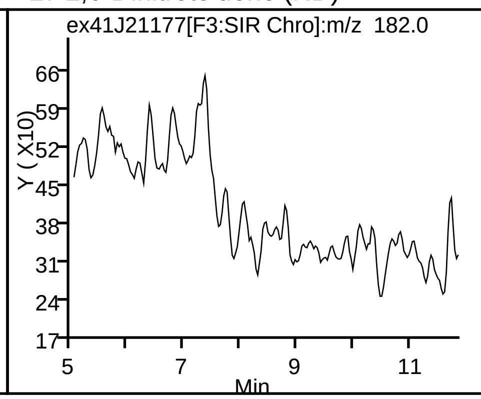
15 2,3-Dinitrotoluene (ND)



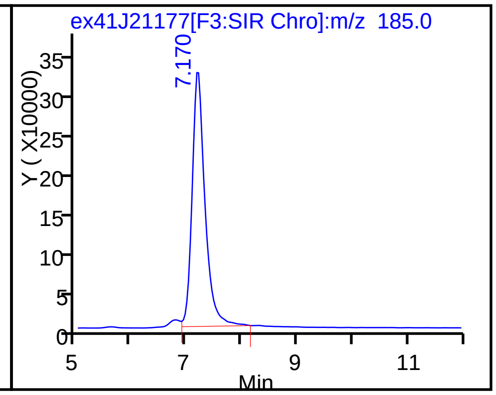
16 2-Amino-4,6-dinitrotoluene (ND)



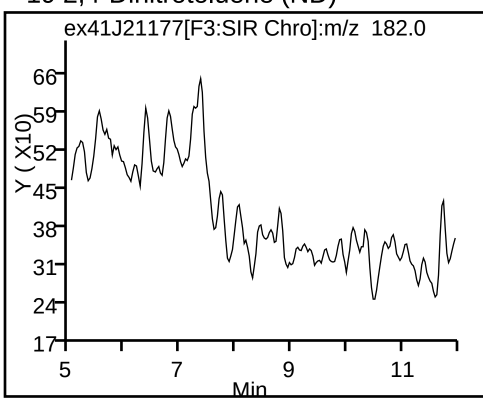
17 2,6-Dinitrotoluene (ND)



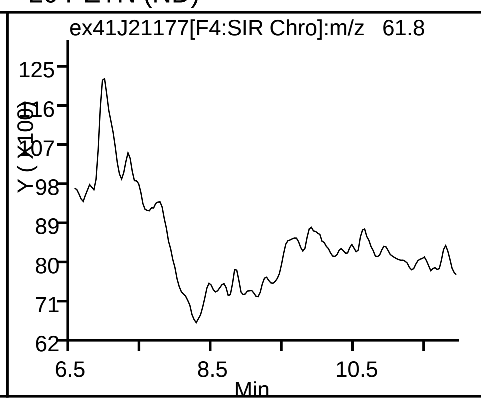
* 18 2,4-dinitrotoluene-d3



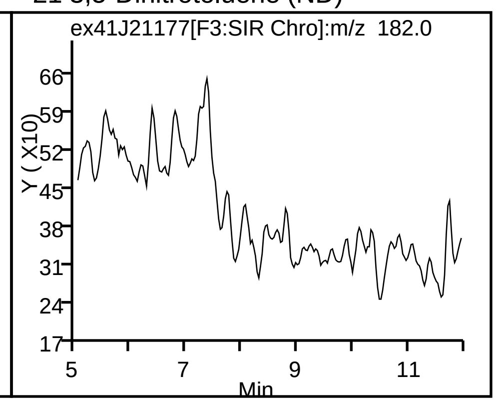
19 2,4-Dinitrotoluene (ND)



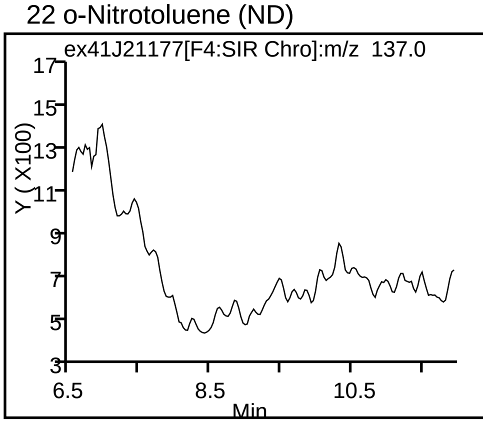
20 PETN (ND)



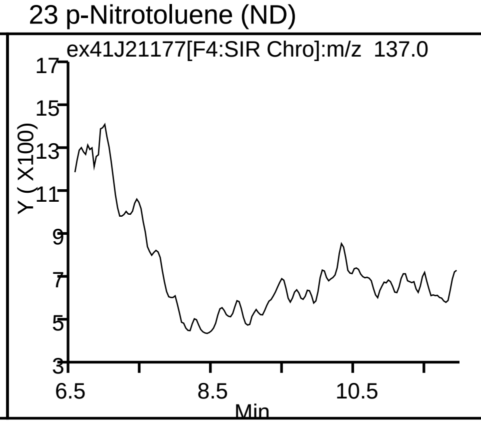
21 3,5-Dinitrotoluene (ND)



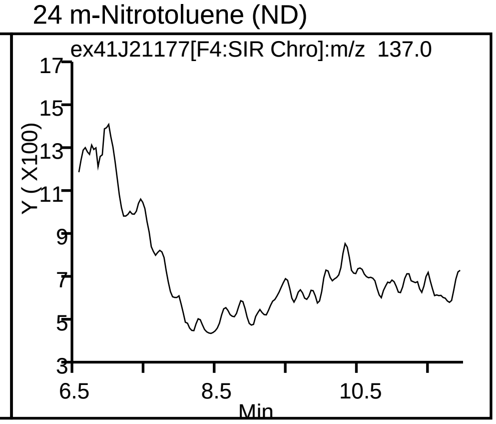
22 o-Nitrotoluene (ND)



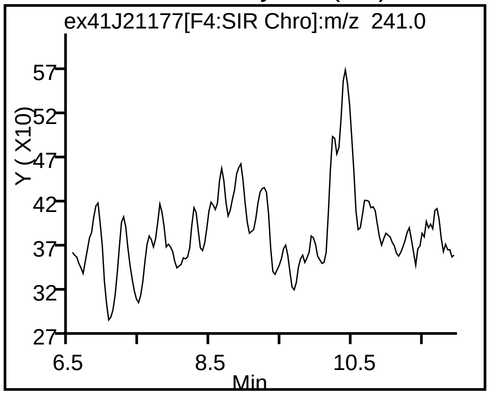
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG34 SB121 | Lab Sample ID: 280-21683-31

Matrix: Solid | Lab File ID: ex41J21178.d

Analysis Method: 8321B | Date Collected: 10/15/2011 09:06

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.15(g) | Date Analyzed: 10/25/2011 19:14

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21178.d		
Lims ID:	280-21683-A-31-C	Client ID:	SB121
Inject. Date:	25-Oct-2011 19:14:41	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-31-C 280-0002644-173		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	43
Lims Batch ID:	92961	Lims Sample ID:	173
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:19	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 26-Oct-2011 06:12:58

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		762152	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2594857	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1824321	258.7			
8 1,3-Dinitrobenzene										
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	719251	79.8			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5468467	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

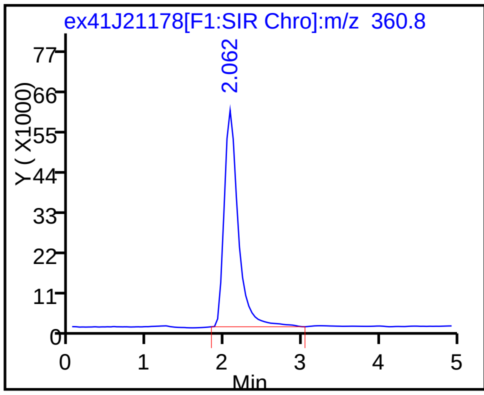
QC Flag Legend

Processing Flags
1 - Missing Peaks

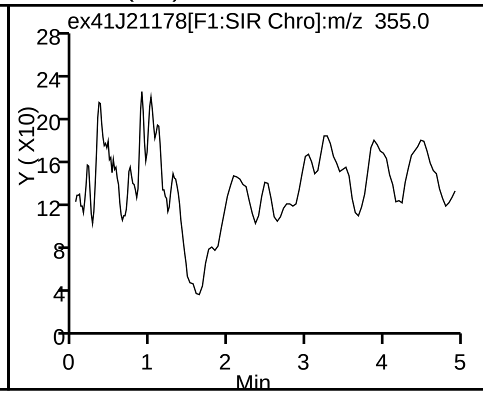
Report Date: 26-Oct-2011 06:24:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21178.d

Injection Date:	25-Oct-2011 19:14:41	Limit Group:	LC - 8321A Expl
Client ID:	SB121	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	173
Operator ID:		Injection Vol:	40.00 ul

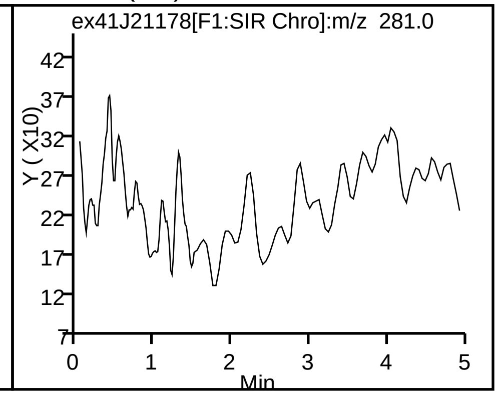
* 1 HMX-13C4



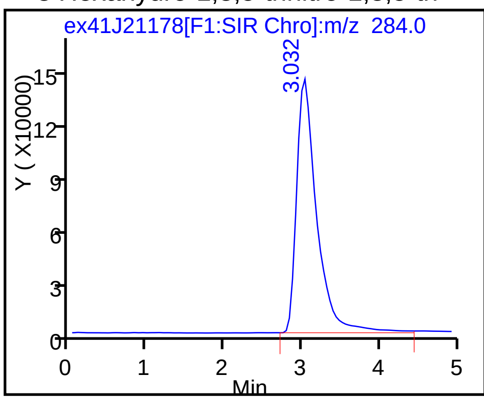
2 HMX (ND)



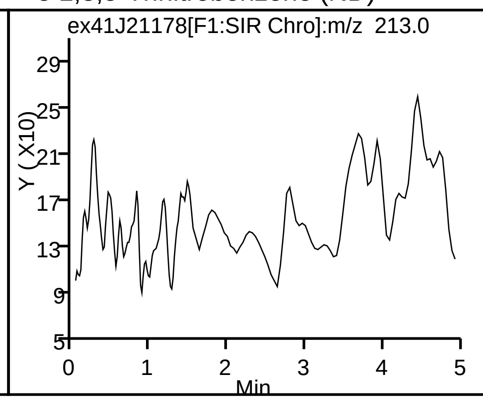
4 RDX (ND)



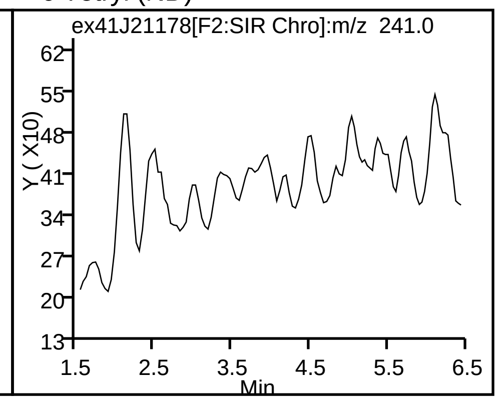
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



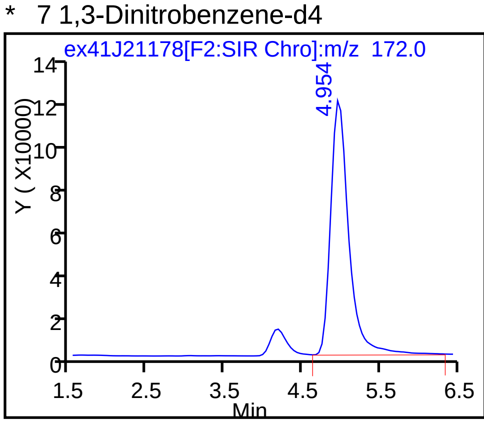
5 1,3,5-Trinitrobenzene (ND)



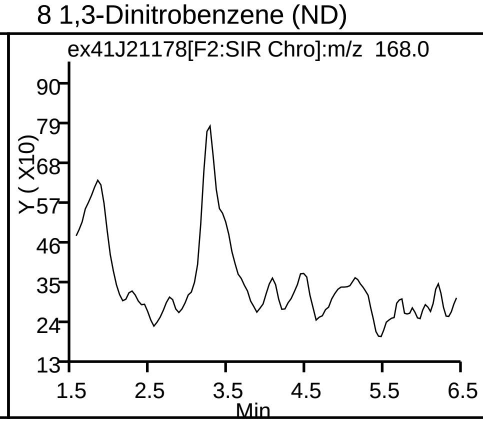
6 Tetryl (ND)



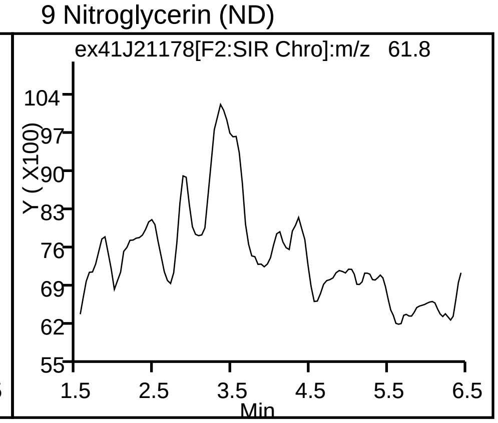
* 7 1,3-Dinitrobenzene-d4



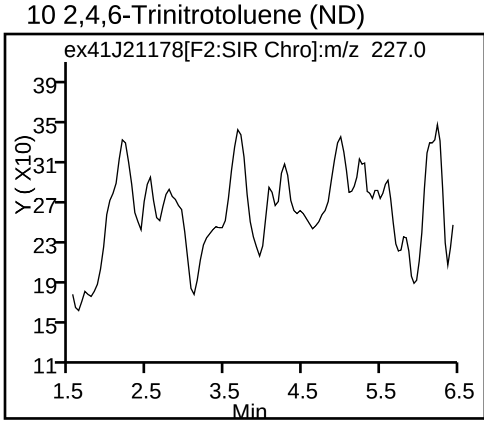
8 1,3-Dinitrobenzene (ND)



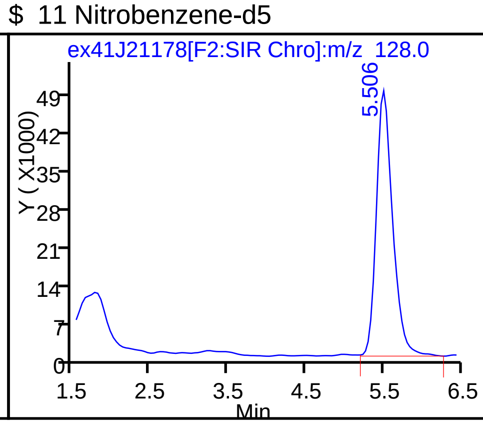
9 Nitroglycerin (ND)



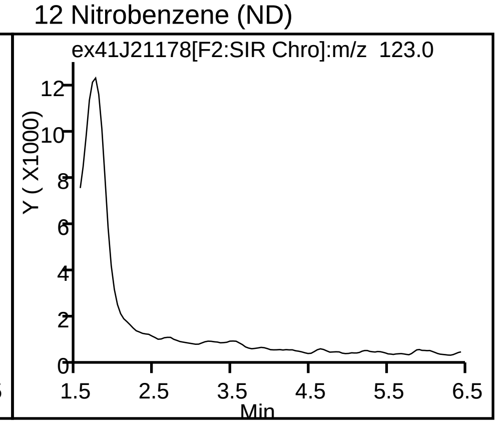
10 2,4,6-Trinitrotoluene (ND)



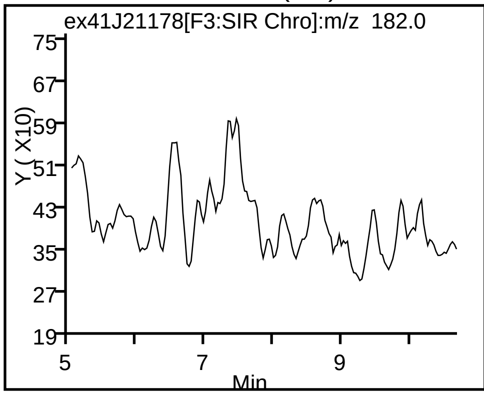
$ 11 Nitrobenzene-d5



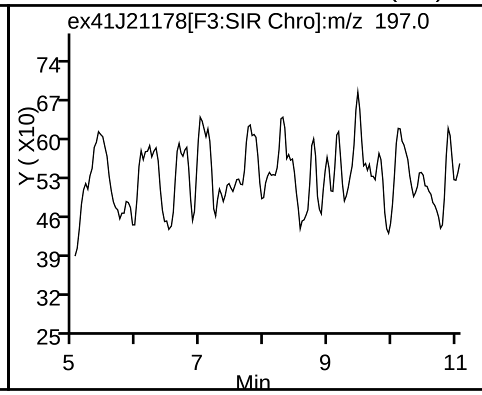
12 Nitrobenzene (ND)



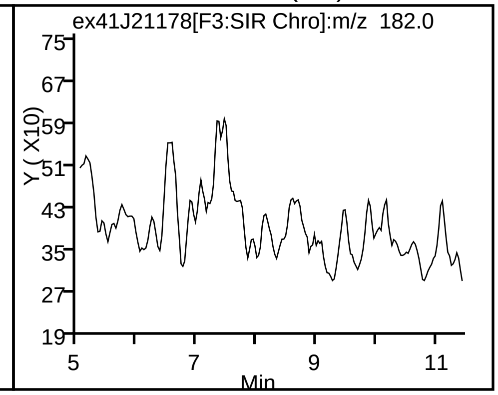
13 3,4-Dinitrotoluene (ND)



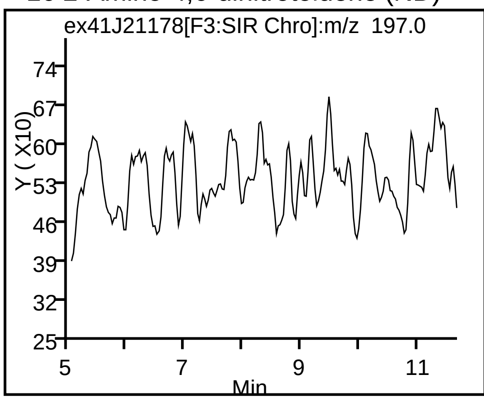
14 4-Amino-2,6-dinitrotoluene (ND)



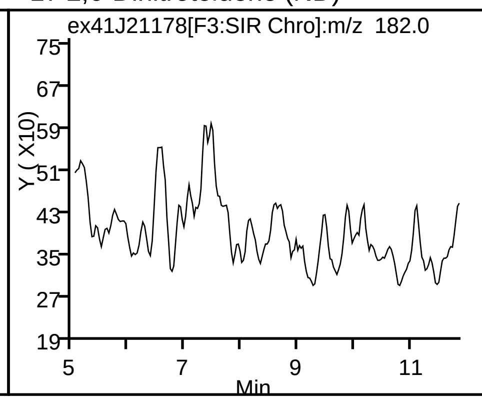
15 2,3-Dinitrotoluene (ND)



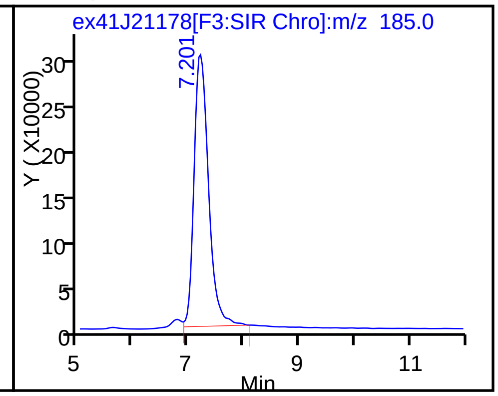
16 2-Amino-4,6-dinitrotoluene (ND)



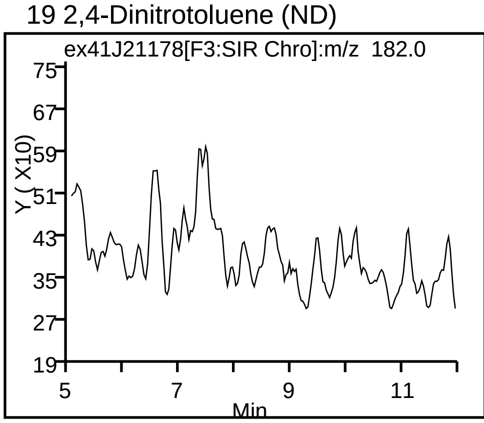
17 2,6-Dinitrotoluene (ND)



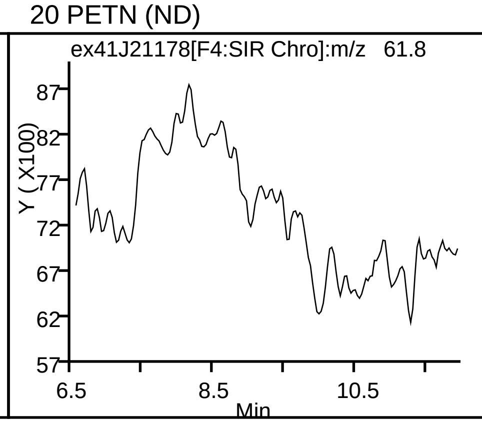
* 18 2,4-dinitrotoluene-d3



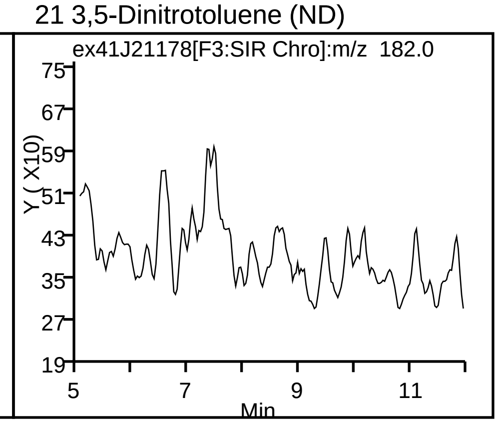
19 2,4-Dinitrotoluene (ND)



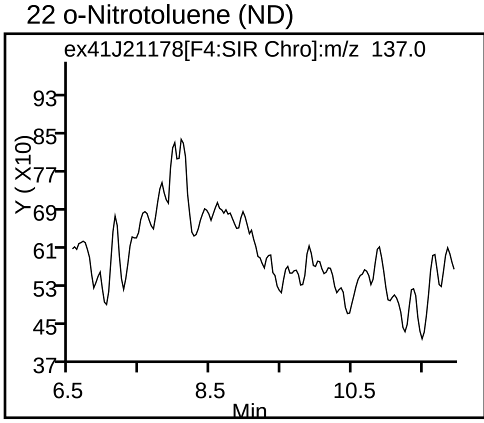
20 PETN (ND)



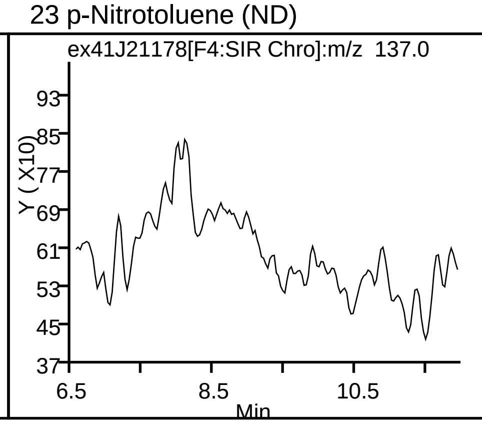
21 3,5-Dinitrotoluene (ND)



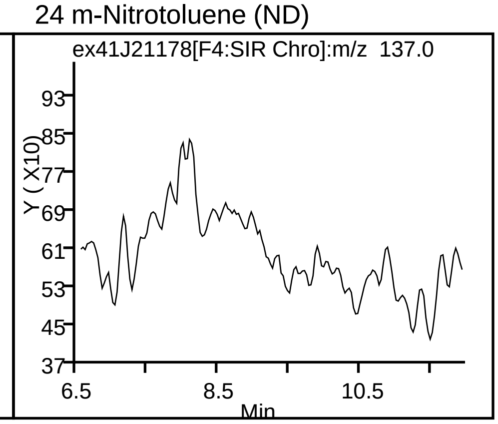
22 o-Nitrotoluene (ND)



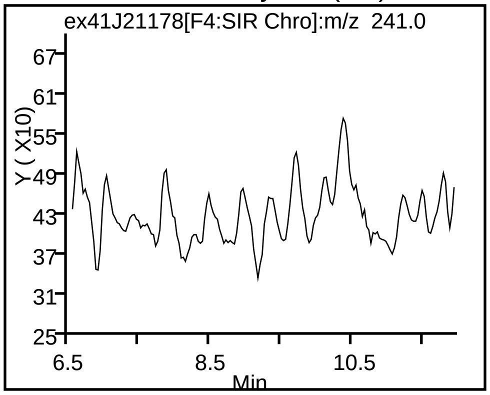
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG34 SB122 | Lab Sample ID: 280-21683-32

Matrix: Solid | Lab File ID: ex41J21179.d

Analysis Method: 8321B | Date Collected: 10/15/2011 09:15

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.16(g) | Date Analyzed: 10/25/2011 19:28

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21179.d		
Lims ID:	280-21683-B-32-B	Client ID:	SB122
Inject. Date:	25-Oct-2011 19:28:15	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-32-B 280-0002644-174		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	44
Lims Batch ID:	92961	Lims Sample ID:	174
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:19	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		865463	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2774044	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1624718	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	611190	76.1			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.459							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5962970	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

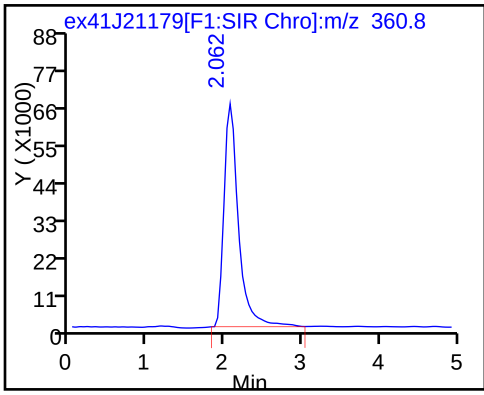
QC Flag Legend

Processing Flags
1 - Missing Peaks

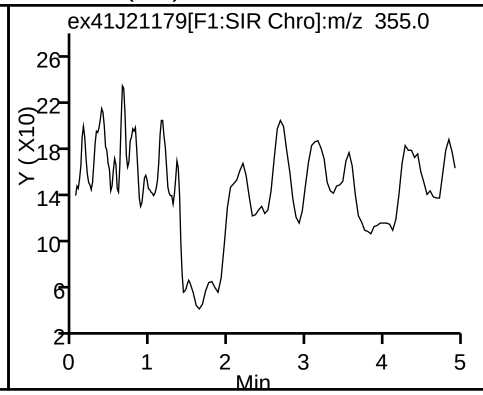
Report Date: 26-Oct-2011 06:24:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21179.d

Injection Date:	25-Oct-2011 19:28:15	Limit Group:	LC - 8321A Expl
Client ID:	SB122	Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	174
Operator ID:		Injection Vol:	40.00 ul

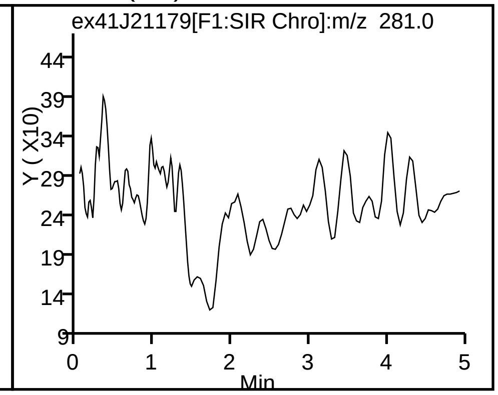
* 1 HMX-13C4



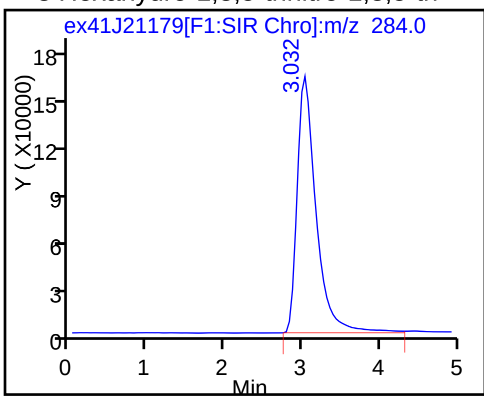
2 HMX (ND)



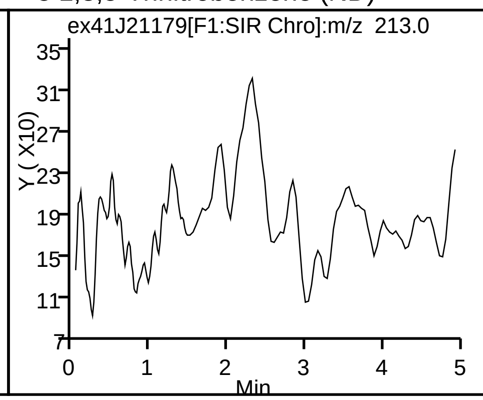
4 RDX (ND)



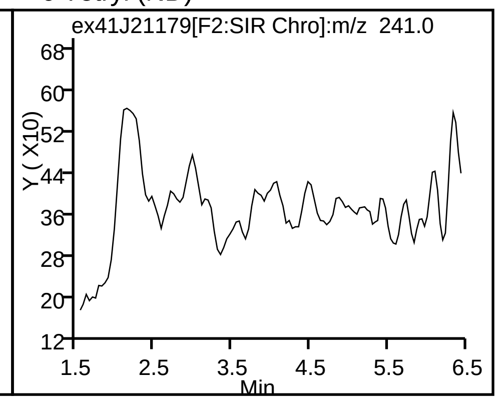
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



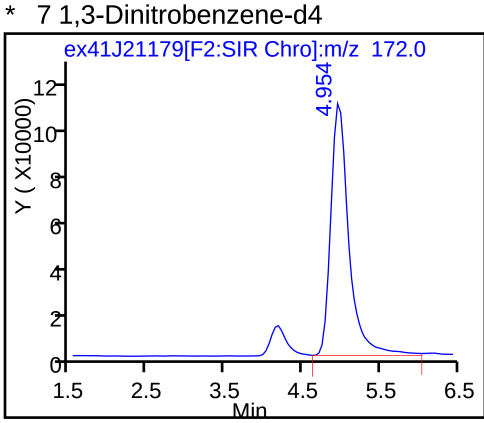
5 1,3,5-Trinitrobenzene (ND)



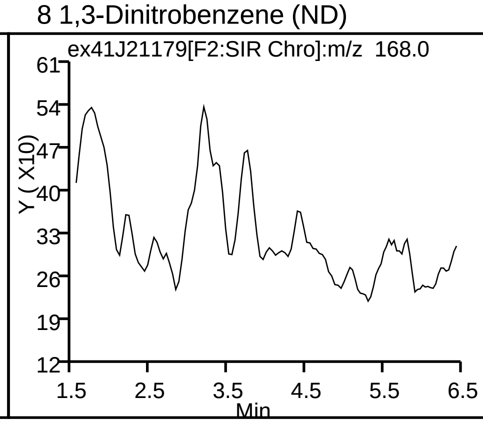
6 Tetryl (ND)



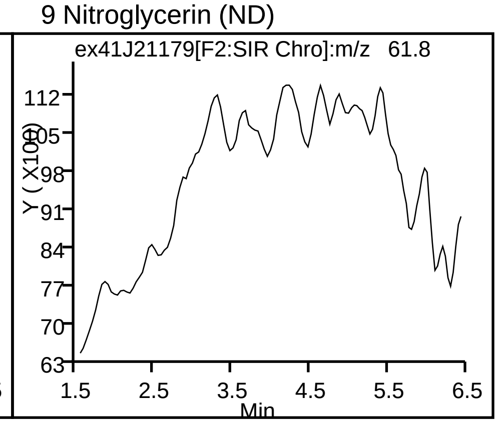
* 7 1,3-Dinitrobenzene-d4



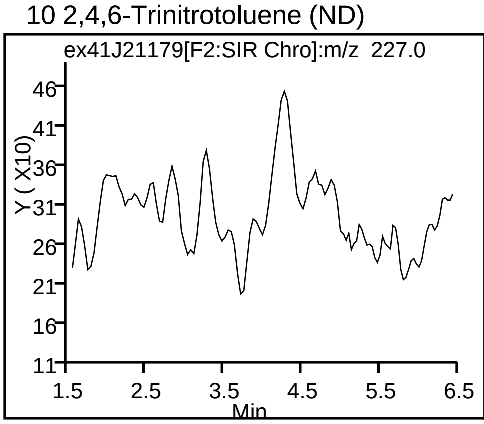
8 1,3-Dinitrobenzene (ND)



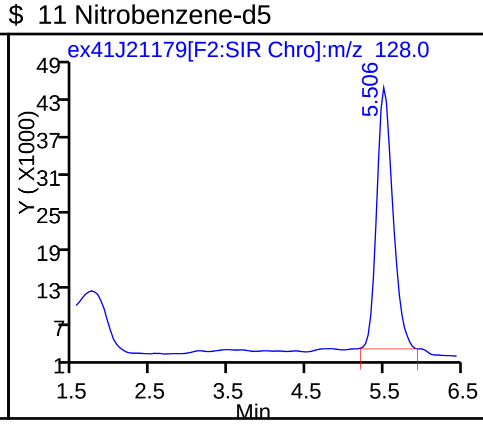
9 Nitroglycerin (ND)



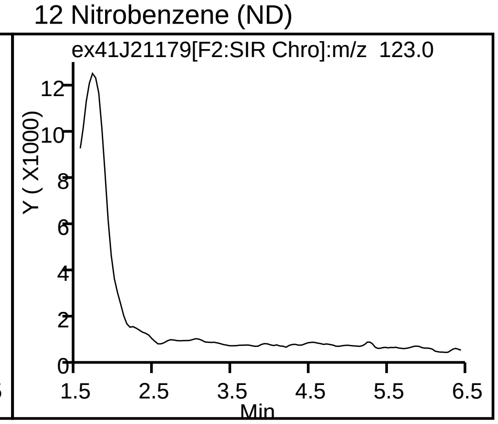
10 2,4,6-Trinitrotoluene (ND)



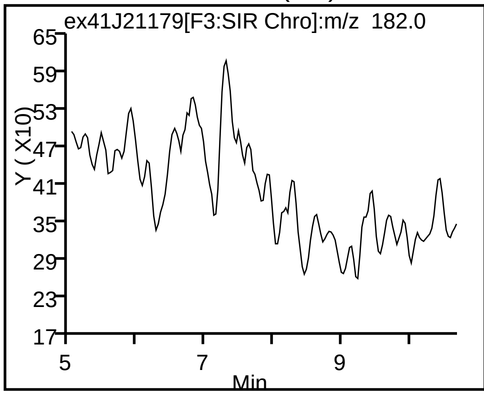
$ 11 Nitrobenzene-d5



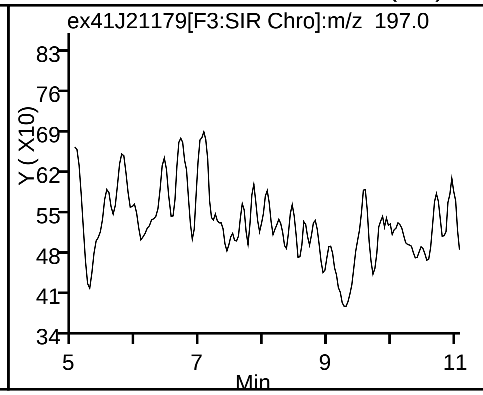
12 Nitrobenzene (ND)



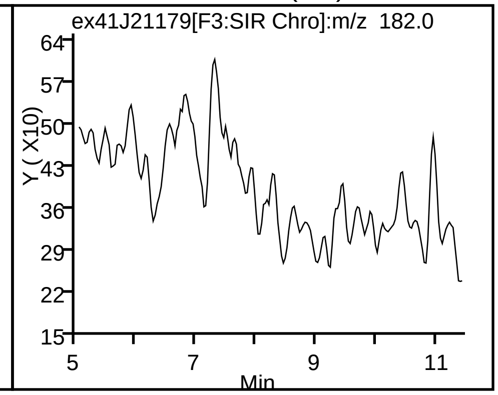
13 3,4-Dinitrotoluene (ND)



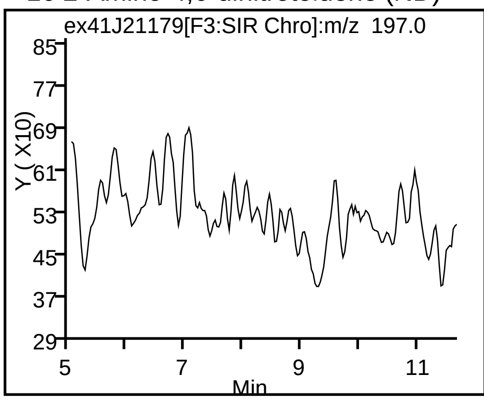
14 4-Amino-2,6-dinitrotoluene (ND)



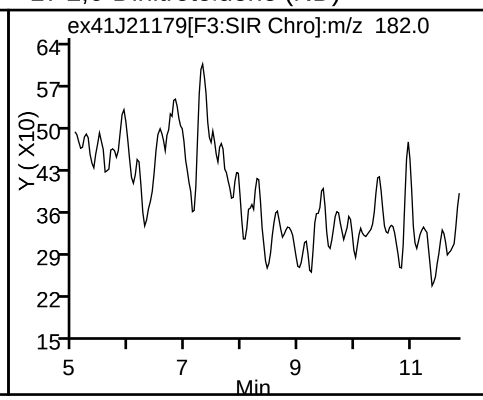
15 2,3-Dinitrotoluene (ND)



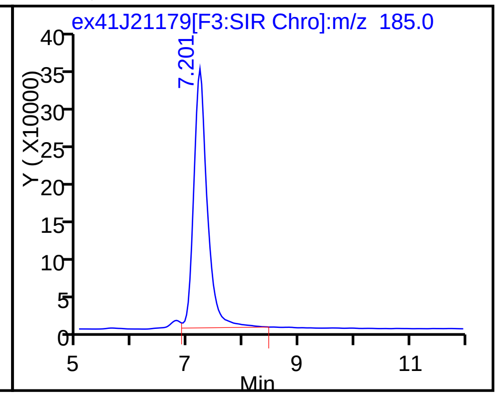
16 2-Amino-4,6-dinitrotoluene (ND)



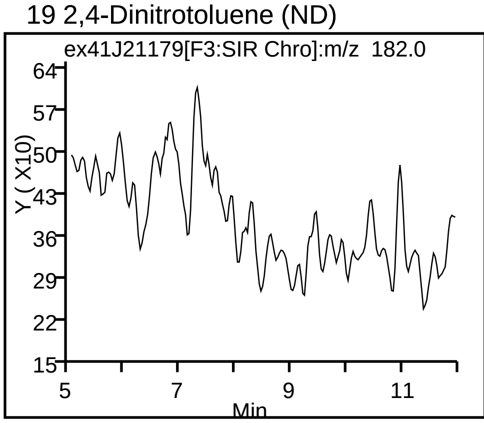
17 2,6-Dinitrotoluene (ND)



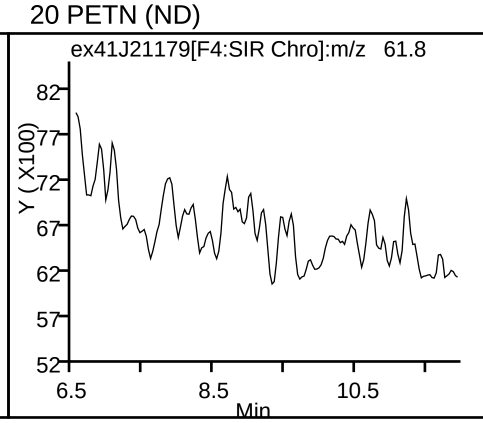
* 18 2,4-dinitrotoluene-d3



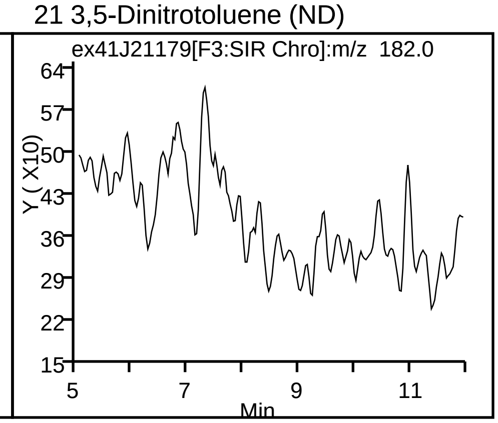
19 2,4-Dinitrotoluene (ND)



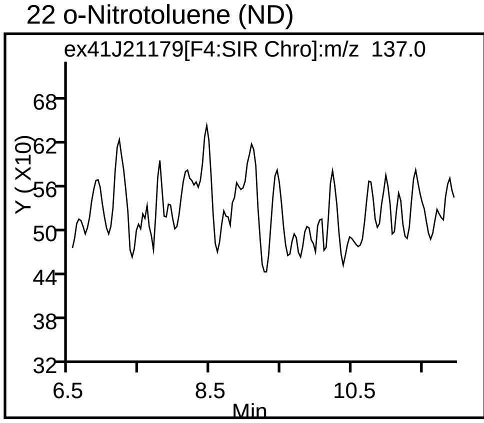
20 PETN (ND)



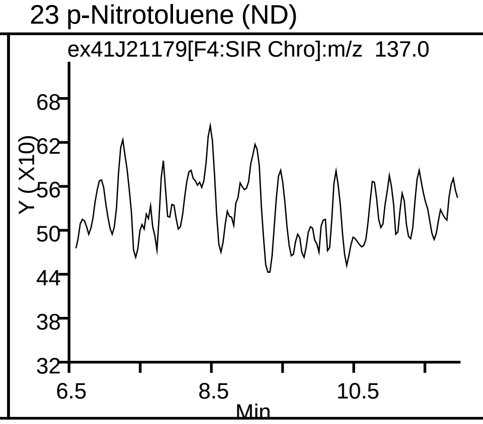
21 3,5-Dinitrotoluene (ND)



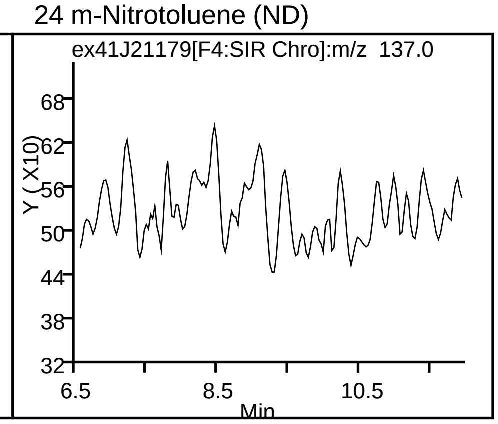
22 o-Nitrotoluene (ND)



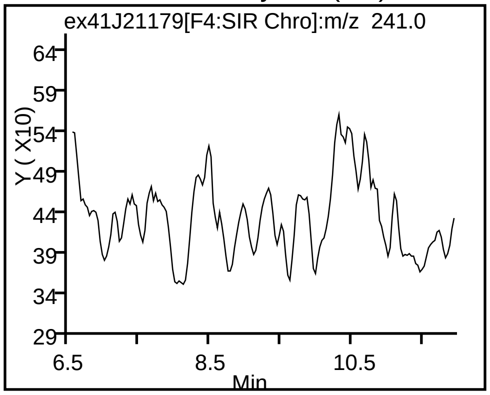
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG31 SB113   Lab Sample ID: 280-21683-33

Matrix: Solid   Lab File ID: ex41J21562.d

Analysis Method: 8321B   Date Collected: 10/15/2011 09:26

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.15(g)   Date Analyzed: 11/01/2011 11:42

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	91		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21562.d		
Lims ID:	280-21683-B-33-B	Client ID:	SB113
Inject. Date:	01-Nov-2011 11:42:08	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-33-B 280-0002689-086		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	29
Lims Batch ID:	94192	Lims Sample ID:	86
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:15	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		586066	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2049974	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1323995	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	585258	89.5			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4013912	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

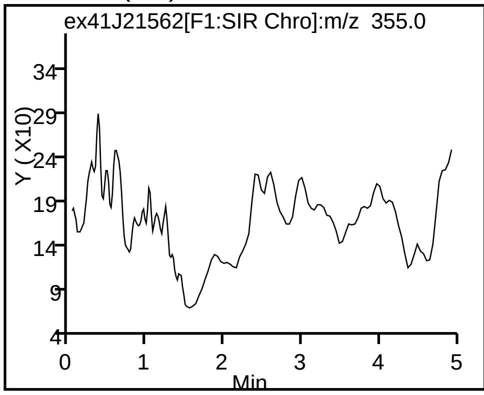
QC Flag Legend

Processing Flags
1 - Missing Peaks

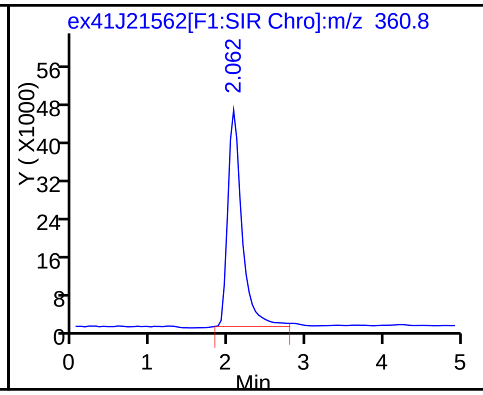
Report Date: 02-Nov-2011 06:41:17 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21562.d

Injection Date:	01-Nov-2011 11:42:08	Limit Group:	LC - 8321A Expl
Client ID:	SB113	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	86
Operator ID:		Injection Vol:	40.00 ul

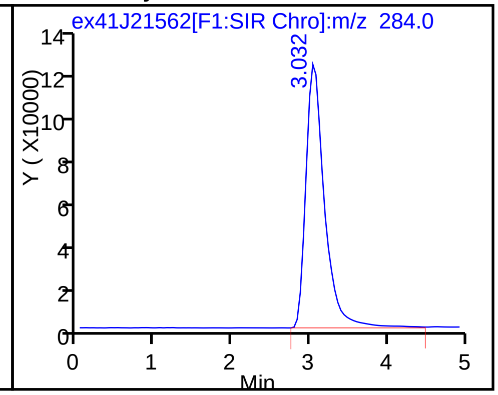
2 HMX (ND)



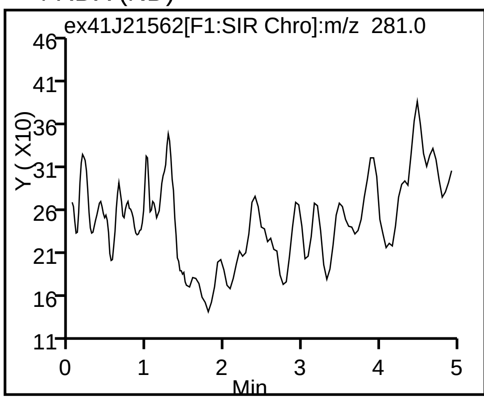
* 1 HMX-13C4



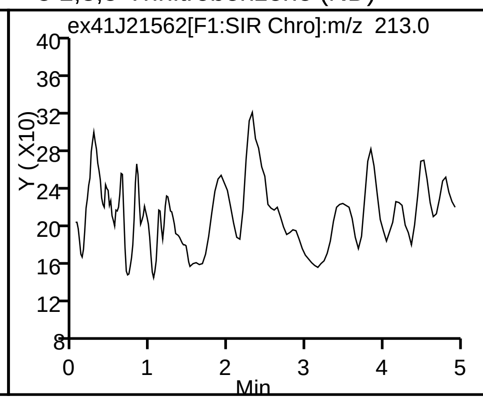
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



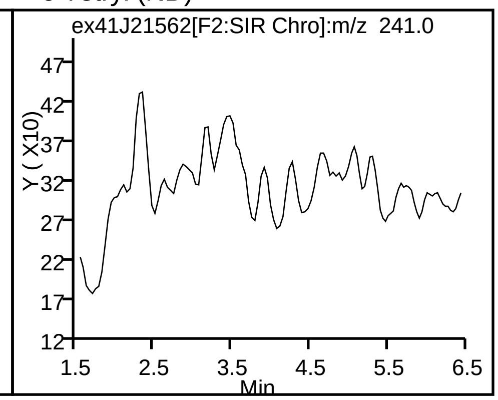
4 RDX (ND)



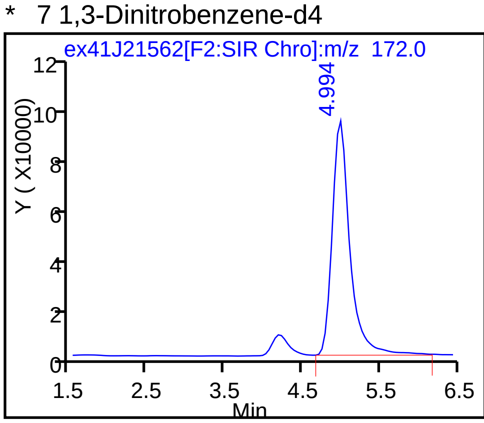
5 1,3,5-Trinitrobenzene (ND)



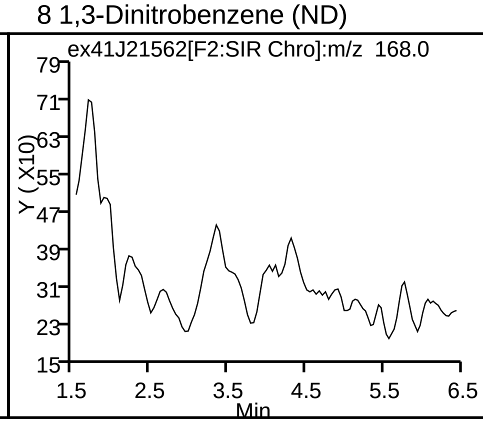
6 Tetryl (ND)



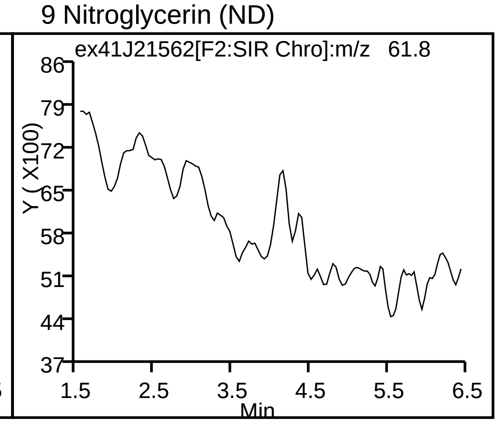
* 7 1,3-Dinitrobenzene-d4



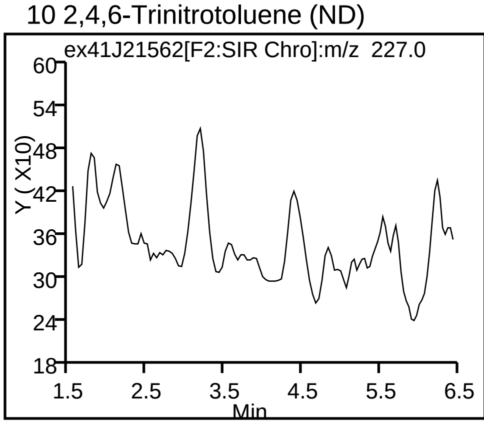
8 1,3-Dinitrobenzene (ND)



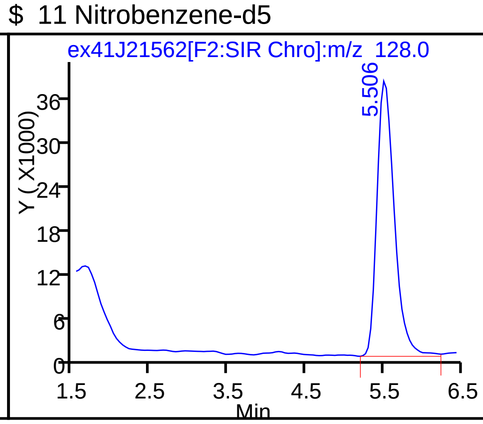
9 Nitroglycerin (ND)



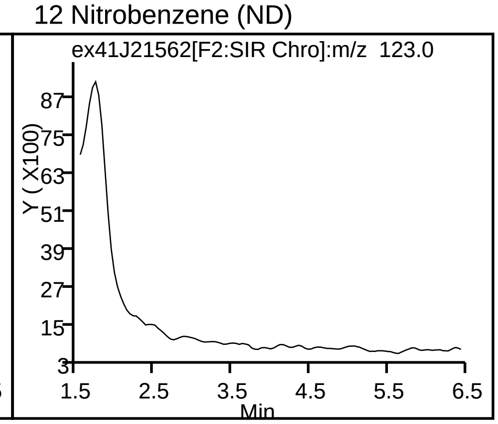
10 2,4,6-Trinitrotoluene (ND)



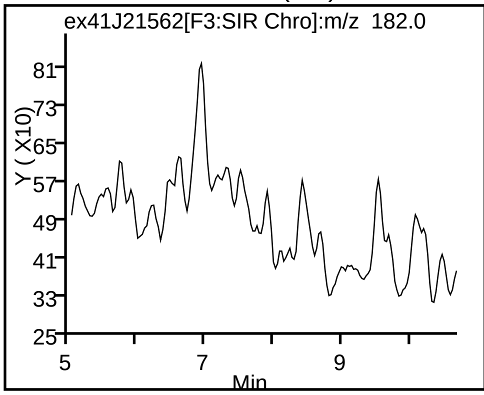
$ 11 Nitrobenzene-d5



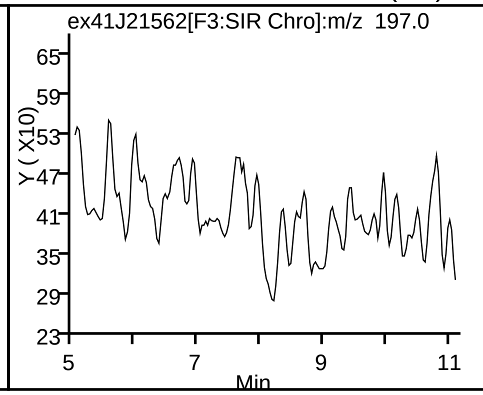
12 Nitrobenzene (ND)



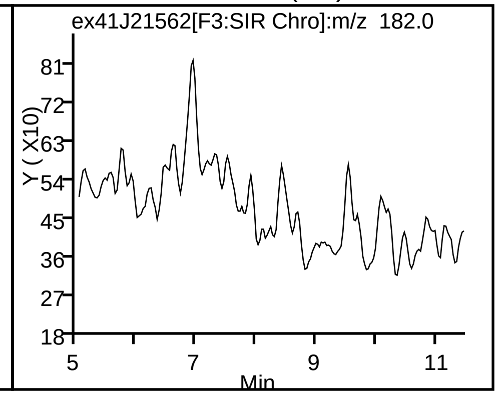
13 3,4-Dinitrotoluene (ND)



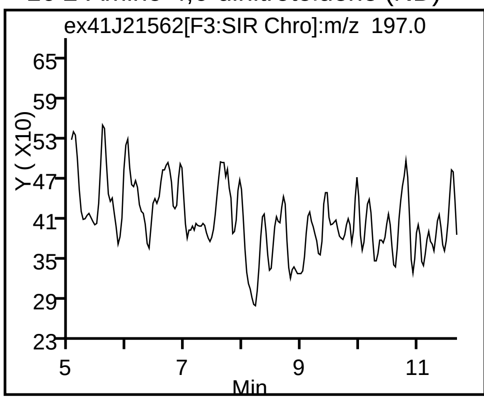
14 4-Amino-2,6-dinitrotoluene (ND)



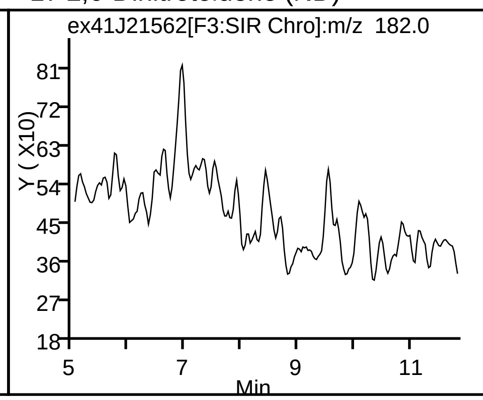
15 2,3-Dinitrotoluene (ND)



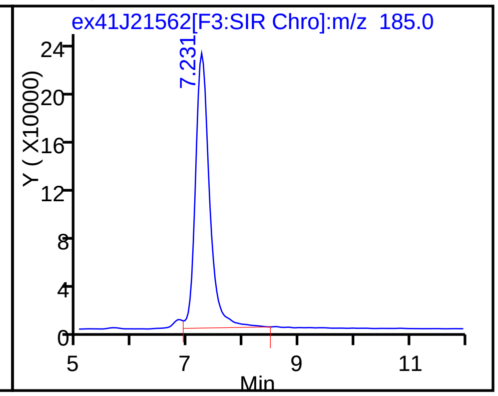
16 2-Amino-4,6-dinitrotoluene (ND)



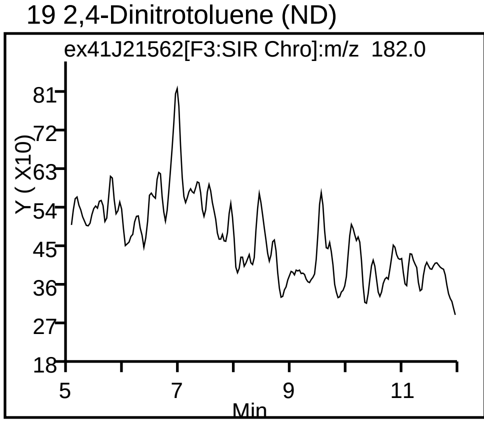
17 2,6-Dinitrotoluene (ND)



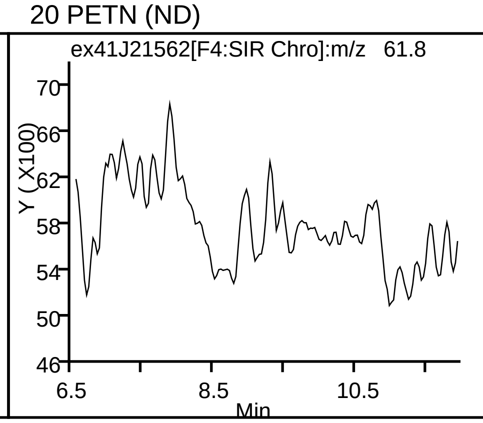
* 18 2,4-dinitrotoluene-d3



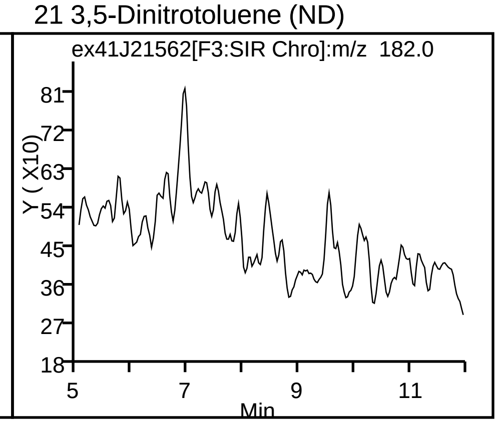
19 2,4-Dinitrotoluene (ND)



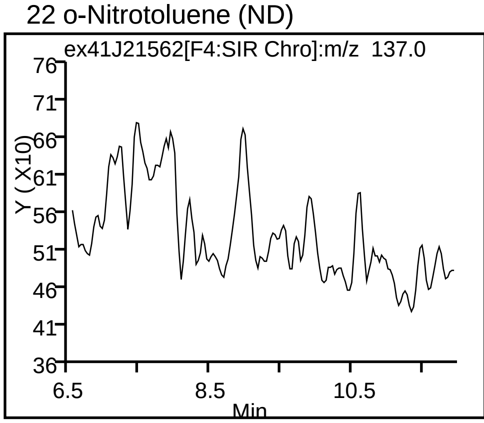
20 PETN (ND)



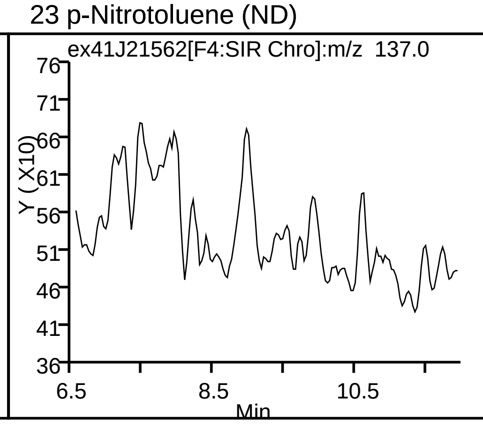
21 3,5-Dinitrotoluene (ND)



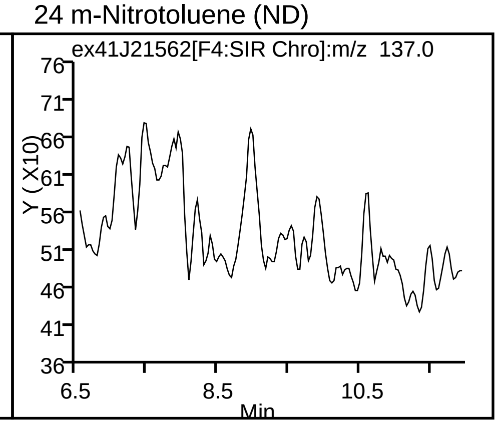
22 o-Nitrotoluene (ND)



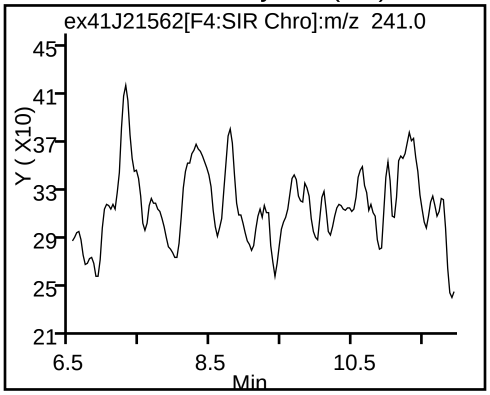
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG31 SB114 | Lab Sample ID: 280-21683-34

Matrix: Solid | Lab File ID: ex41J21563.d

Analysis Method: 8321B | Date Collected: 10/15/2011 09:33

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.30(g) | Date Analyzed: 11/01/2011 11:55

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac | ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21563.d		
Lims ID:	280-21683-A-34-C	Client ID:	SB114
Inject. Date:	01-Nov-2011 11:55:42	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-34-C 280-0002689-087		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	30
Lims Batch ID:	94192	Lims Sample ID:	87
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:15	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 02-Nov-2011 06:31:53

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		669603	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2262614	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1354901	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	577814	86.4			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4124347	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

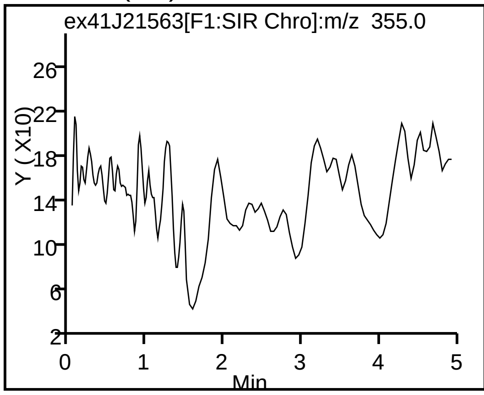
QC Flag Legend

Processing Flags
1 - Missing Peaks

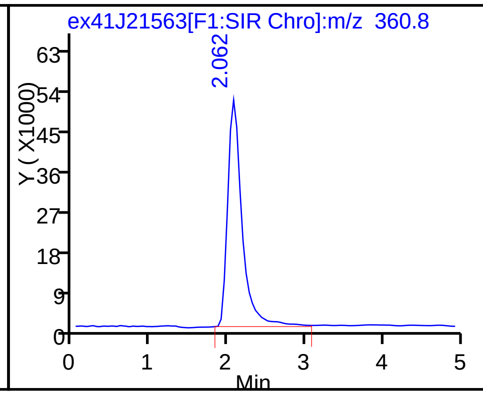
Report Date: 02-Nov-2011 06:41:18 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21563.d

Injection Date:	01-Nov-2011 11:55:42	Limit Group:	LC - 8321A Expl
Client ID:	SB114	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	87
Operator ID:		Injection Vol:	40.00 ul

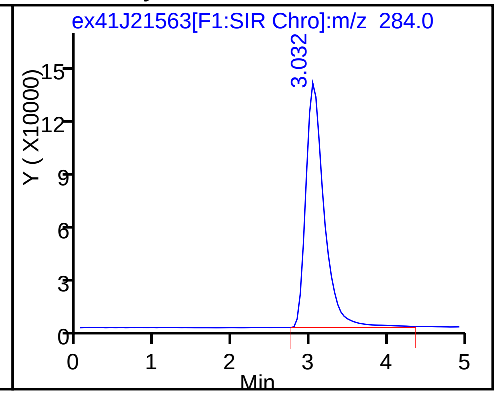
2 HMX (ND)



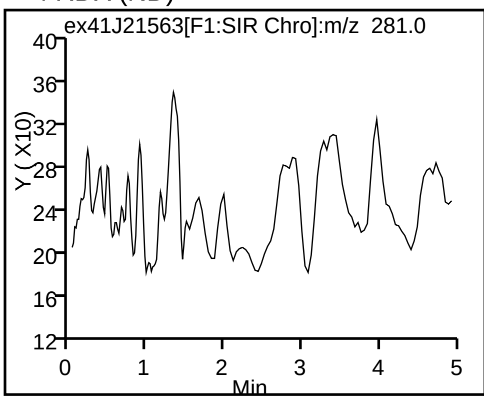
* 1 HMX-13C4



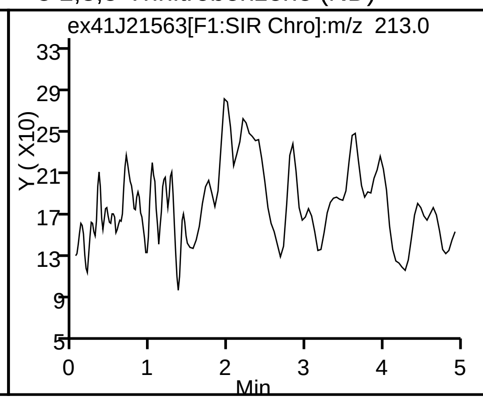
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



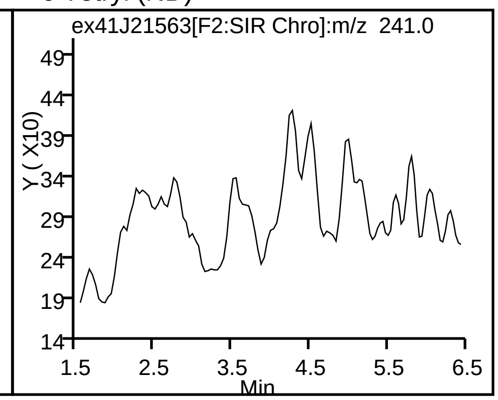
4 RDX (ND)



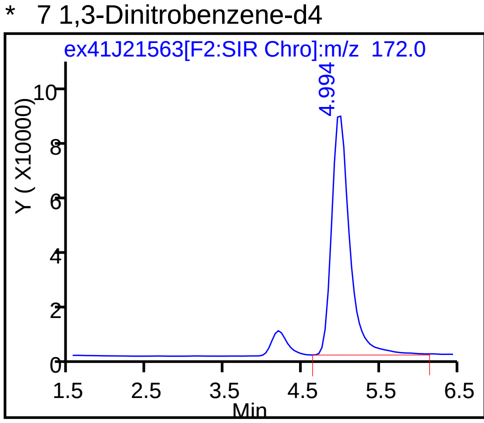
5 1,3,5-Trinitrobenzene (ND)



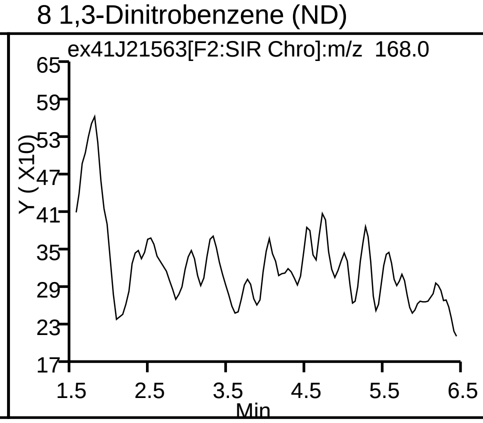
6 Tetryl (ND)



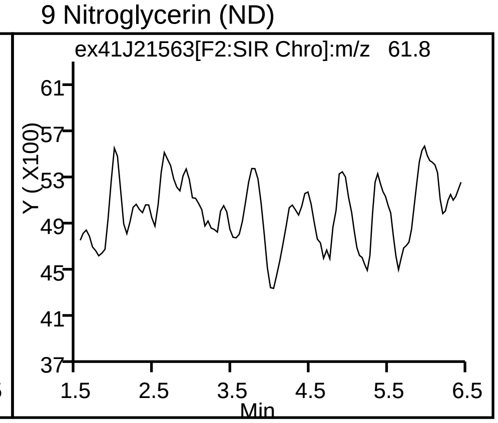
* 7 1,3-Dinitrobenzene-d4



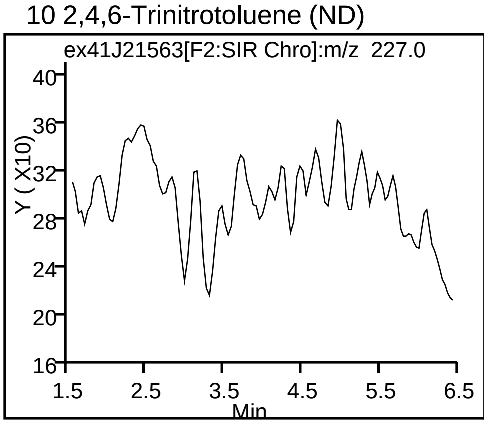
8 1,3-Dinitrobenzene (ND)



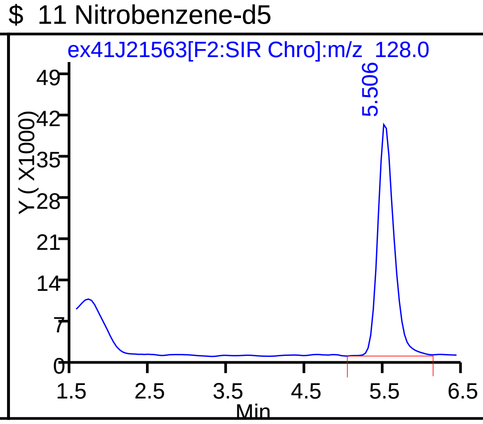
9 Nitroglycerin (ND)



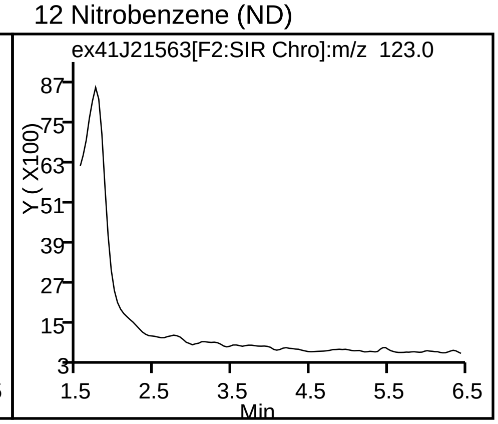
10 2,4,6-Trinitrotoluene (ND)



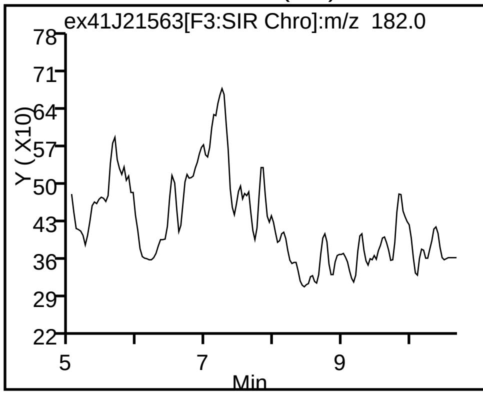
$ 11 Nitrobenzene-d5



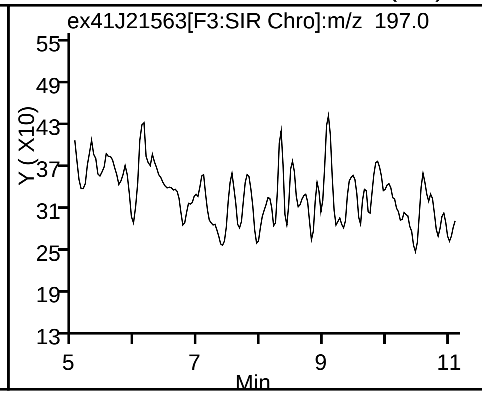
12 Nitrobenzene (ND)



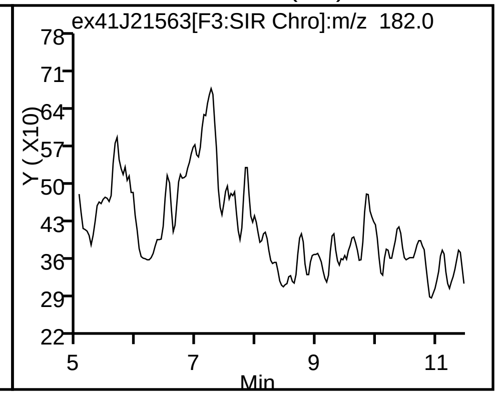
13 3,4-Dinitrotoluene (ND)



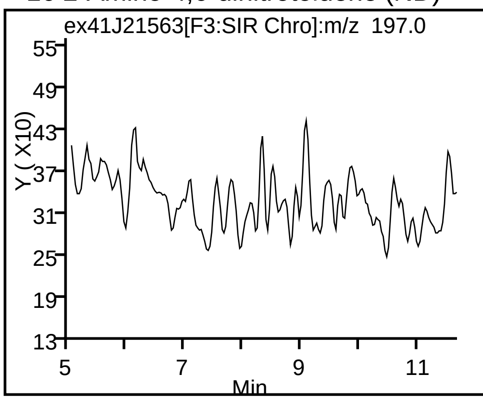
14 4-Amino-2,6-dinitrotoluene (ND)



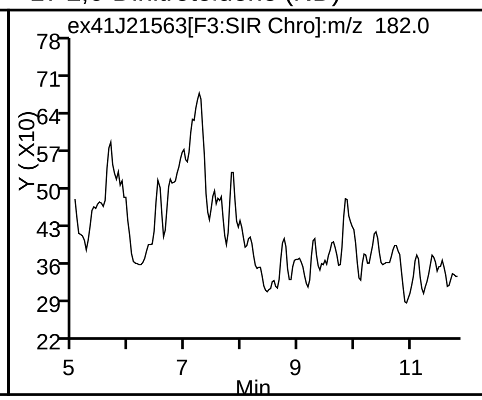
15 2,3-Dinitrotoluene (ND)



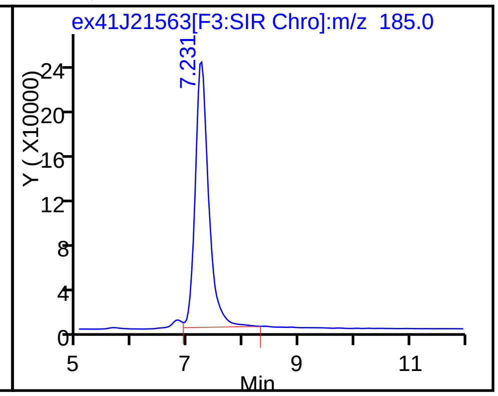
16 2-Amino-4,6-dinitrotoluene (ND)



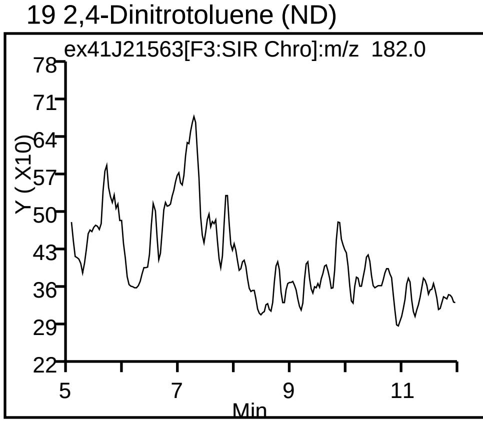
17 2,6-Dinitrotoluene (ND)



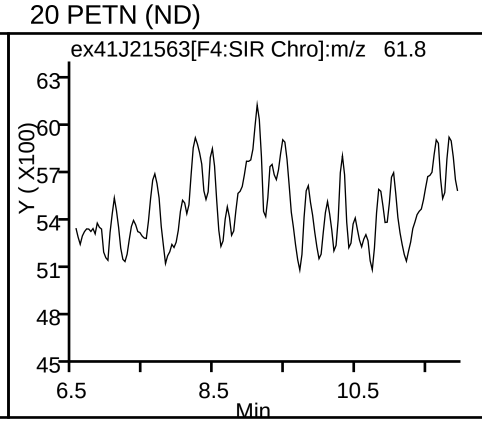
* 18 2,4-dinitrotoluene-d3



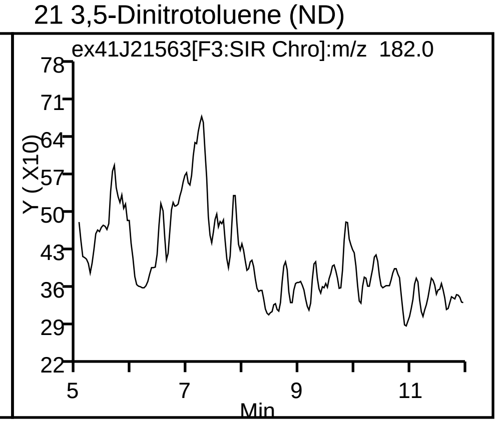
19 2,4-Dinitrotoluene (ND)



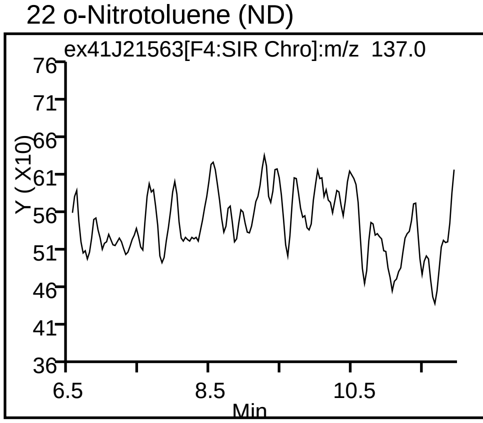
20 PETN (ND)



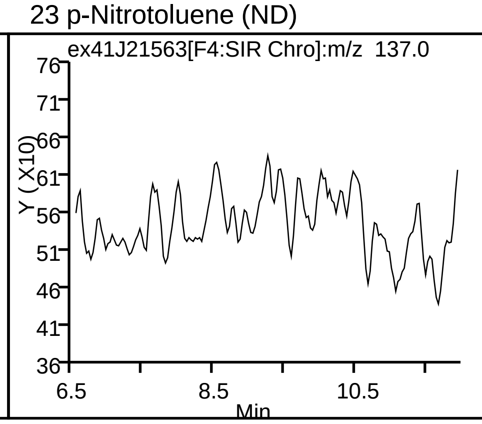
21 3,5-Dinitrotoluene (ND)



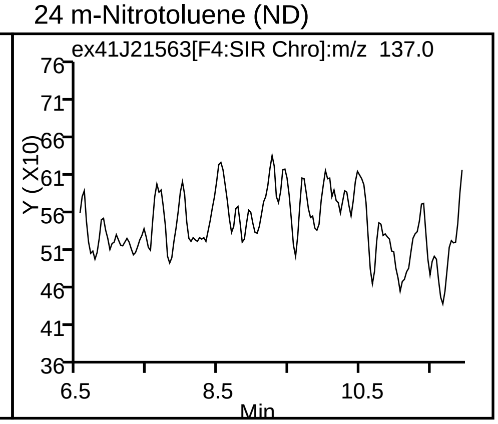
22 o-Nitrotoluene (ND)



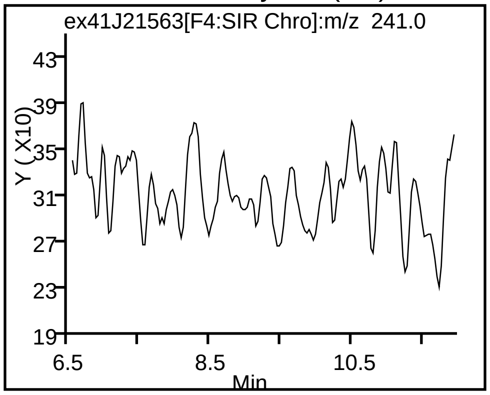
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG30 SB111 | Lab Sample ID: 280-21683-35

Matrix: Solid | Lab File ID: ex41J21564.d

Analysis Method: 8321B | Date Collected: 10/15/2011 09:45

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.45(g) | Date Analyzed: 11/01/2011 12:09

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21564.d		
Lims ID:	280-21683-A-35-C	Client ID:	SB111
Inject. Date:	01-Nov-2011 12:09:17	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-35-C 280-0002689-088		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	31
Lims Batch ID:	94192	Lims Sample ID:	88
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:15	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		634009	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2194585	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1322175	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										1
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	514275	78.7			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4190325	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

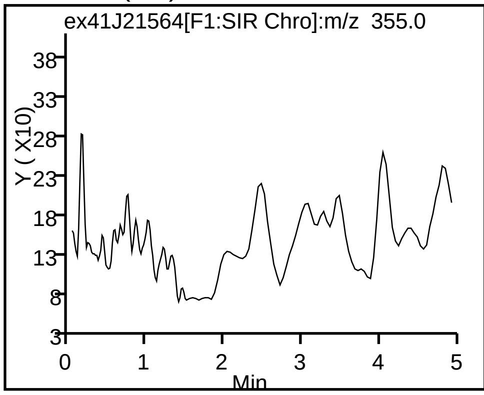
QC Flag Legend

Processing Flags
1 - Missing Peaks

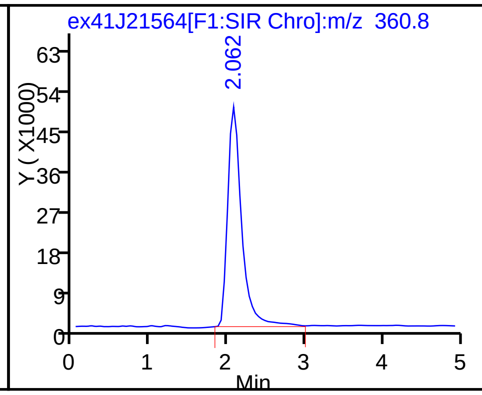
Report Date: 02-Nov-2011 06:41:19 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21564.d

Injection Date:	01-Nov-2011 12:09:17	Limit Group:	LC - 8321A Expl
Client ID:	SB111	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	88
Operator ID:		Injection Vol:	40.00 ul

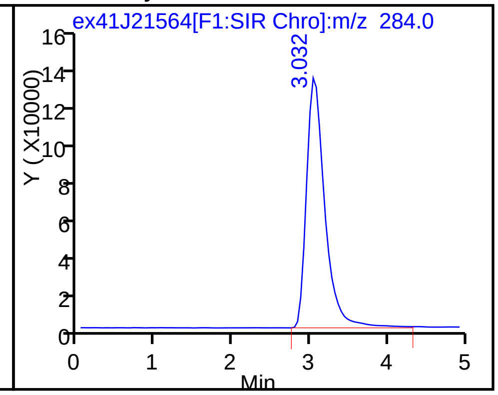
2 HMX (ND)



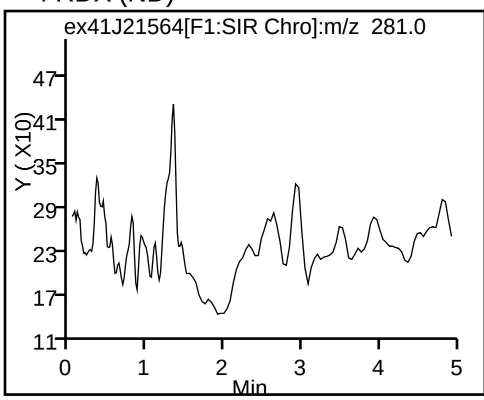
* 1 HMX-13C4



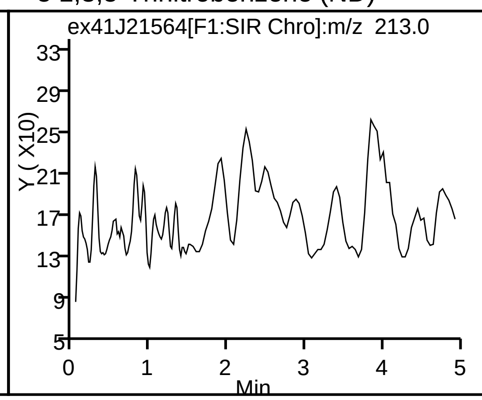
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



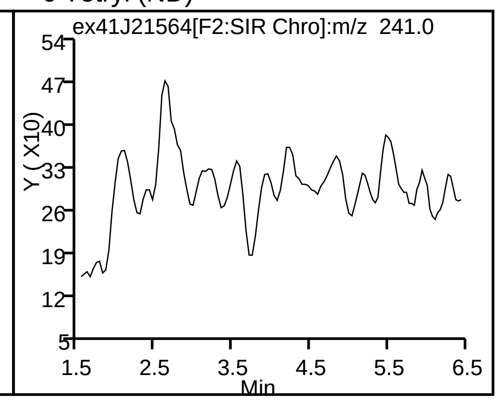
4 RDX (ND)



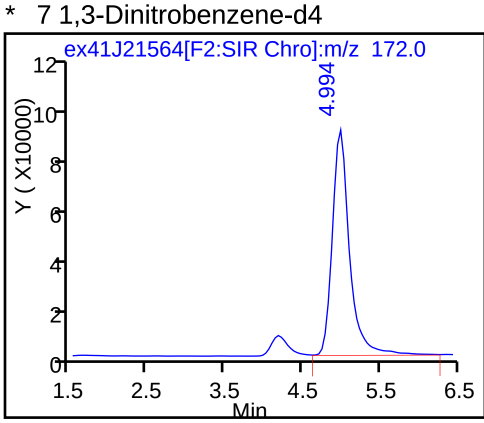
5 1,3,5-Trinitrobenzene (ND)



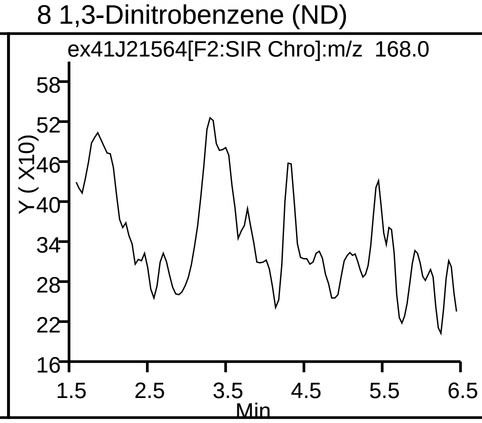
6 Tetryl (ND)



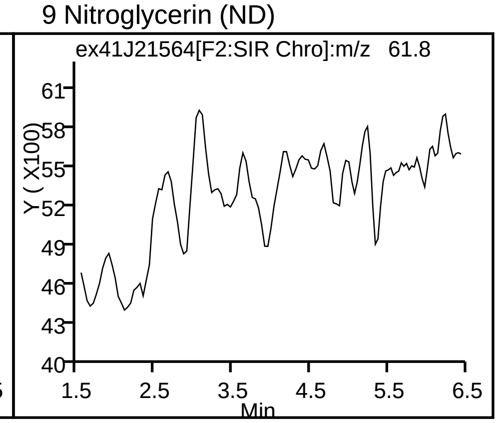
* 7 1,3-Dinitrobenzene-d4



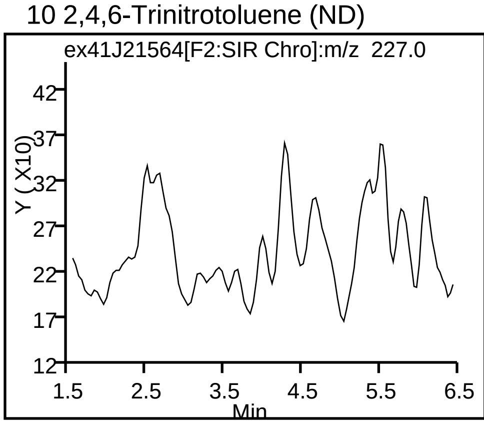
8 1,3-Dinitrobenzene (ND)



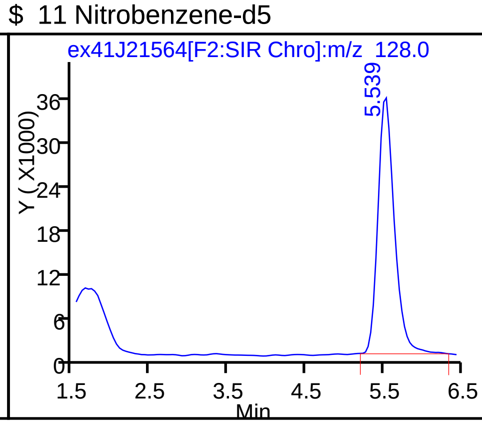
9 Nitroglycerin (ND)



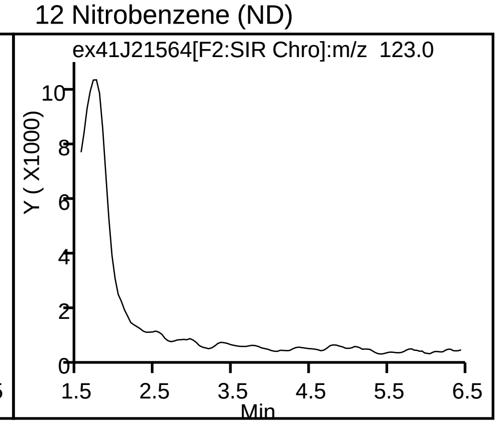
10 2,4,6-Trinitrotoluene (ND)



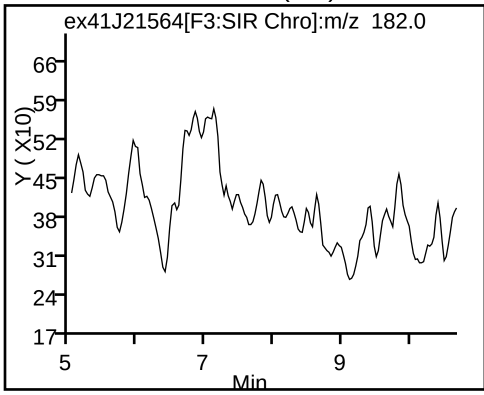
$ 11 Nitrobenzene-d5



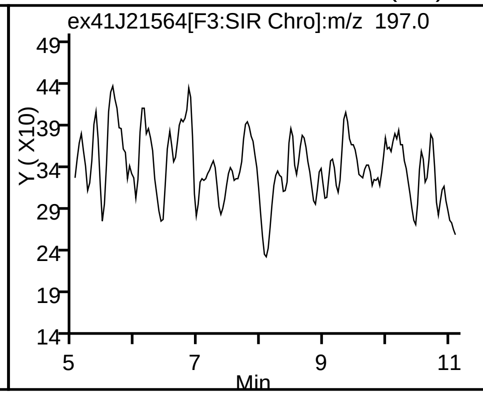
12 Nitrobenzene (ND)



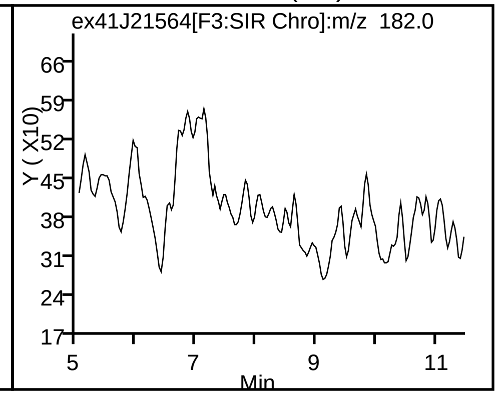
13 3,4-Dinitrotoluene (ND)



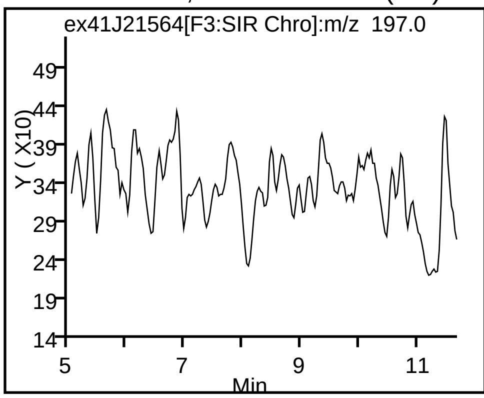
14 4-Amino-2,6-dinitrotoluene (ND)



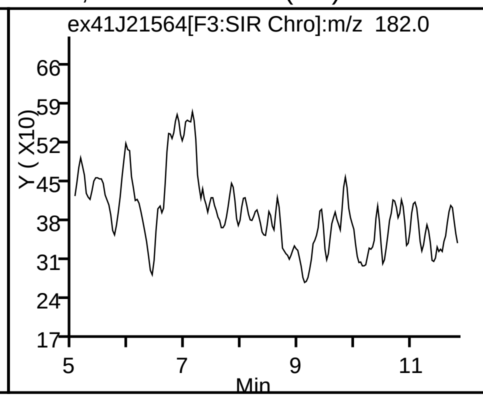
15 2,3-Dinitrotoluene (ND)



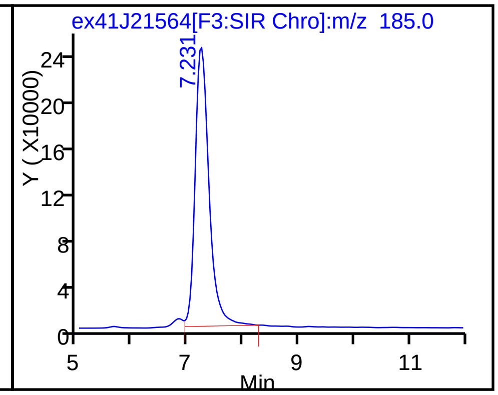
16 2-Amino-4,6-dinitrotoluene (ND)



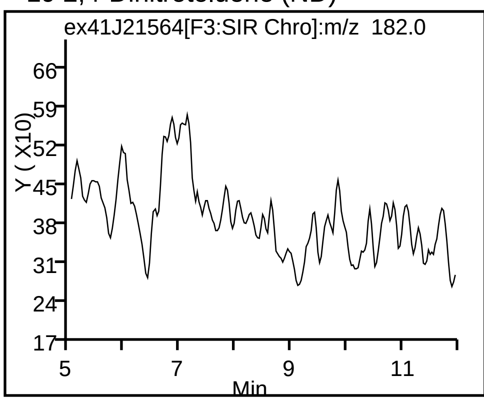
17 2,6-Dinitrotoluene (ND)



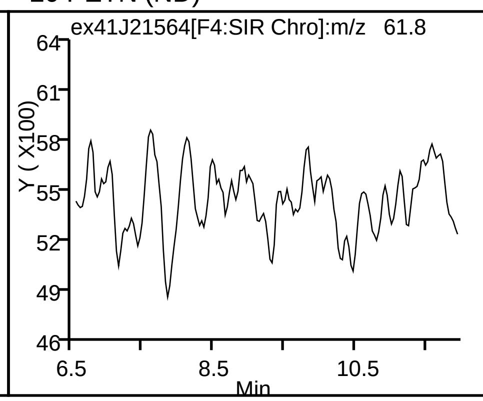
* 18 2,4-dinitrotoluene-d3



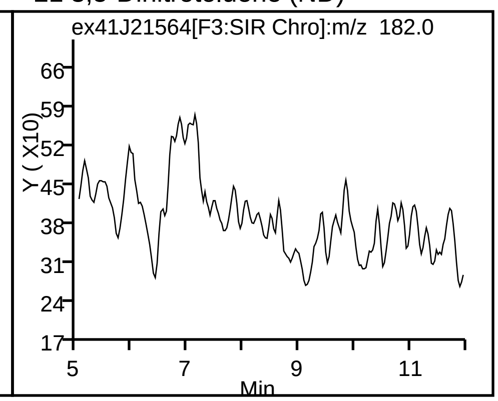
19 2,4-Dinitrotoluene (ND)



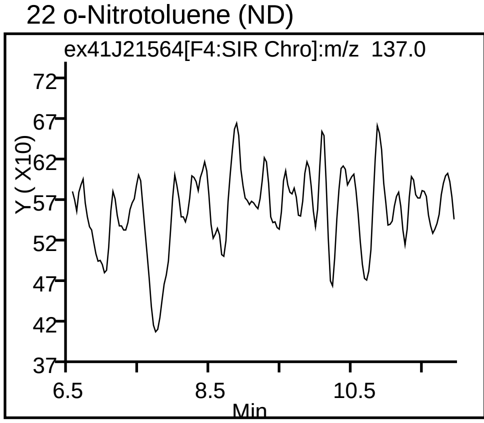
20 PETN (ND)



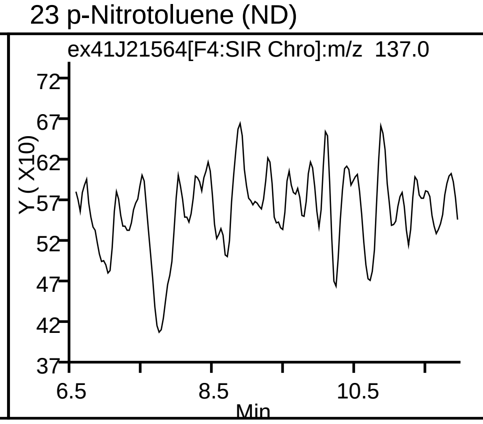
21 3,5-Dinitrotoluene (ND)



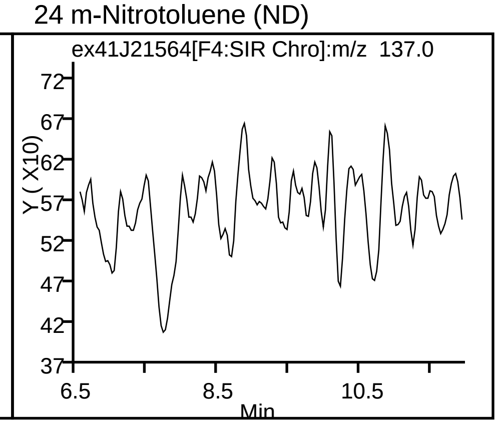
22 o-Nitrotoluene (ND)



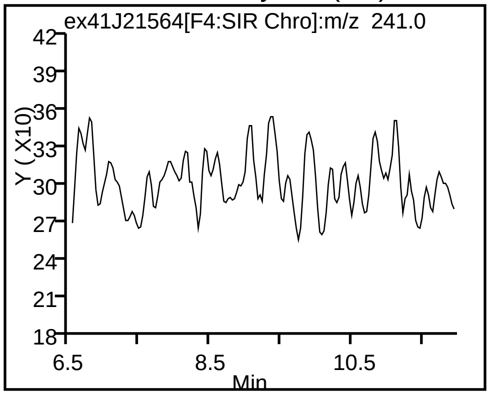
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG30 SB112 Lab Sample ID: 280-21683-36

Matrix: Solid Lab File ID: ex41J21565.d

Analysis Method: 8321B Date Collected: 10/15/2011 09:51

Extraction Method: 8330B Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.19(g) Date Analyzed: 11/01/2011 12:22

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21565.d		
Lims ID:	280-21683-B-36-B	Client ID:	SB112
Inject. Date:	01-Nov-2011 12:22:51	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-36-B 280-0002689-089		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	32
Lims Batch ID:	94192	Lims Sample ID:	89
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:15	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									1
1	355.0		2.062							
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		577794	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		1963870	250.0			
	4 RDX									1
1	281.0		3.032							
	5 1,3,5-Trinitrobenzene									1
1	213.0		3.759							
	6 Tetryl									1
2	241.0		4.469							
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.994	4.954	0.040		1173984	258.7			
	8 1,3-Dinitrobenzene									1
2	168.0		5.034							
	9 Nitroglycerin									
2	61.8		5.034							
	10 2,4,6-Trinitrotoluene									1
2	227.0		5.438							
$	11 Nitrobenzene-d5									
2	128.0	5.539	5.506	0.033	1.109	468485	80.8			
	12 Nitrobenzene									1
2	123.0		5.607							
	13 3,4-Dinitrotoluene									1
3	182.0		5.684							
	14 4-Amino-2,6-dinitrotoluene									1
3	197.0		6.122							
	15 2,3-Dinitrotoluene									1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3627106	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

QC Flag Legend

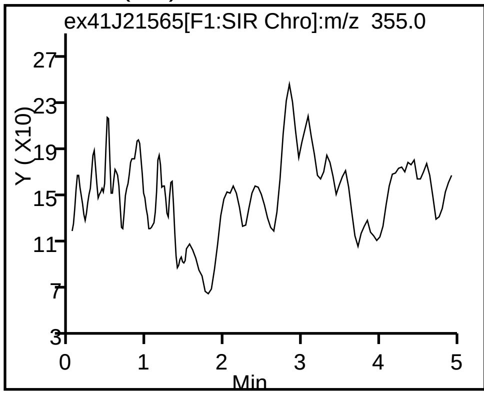
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:41:19 | Chrom Revision: 1.2 13-Jul-2011 10:43:06

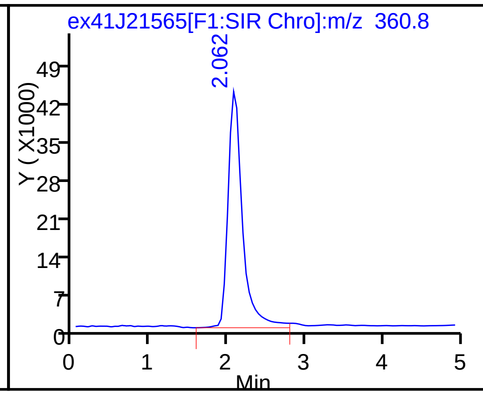
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21565.d

Injection Date:	01-Nov-2011 12:22:51	Limit Group:	LC - 8321A Expl
Client ID:	SB112	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	89
Operator ID:		Injection Vol:	40.00 ul

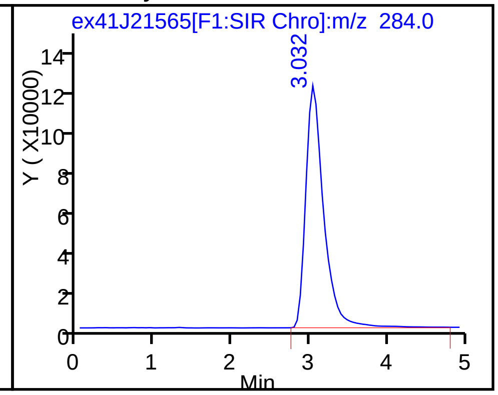
2 HMX (ND)



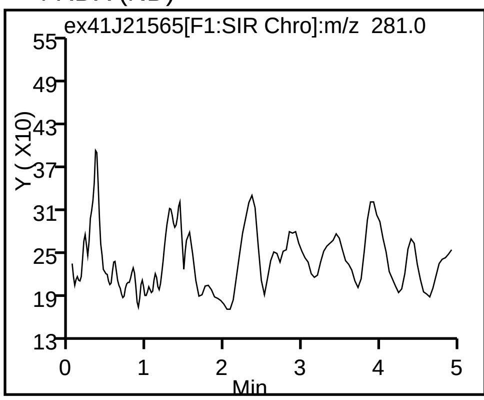
* 1 HMX-13C4



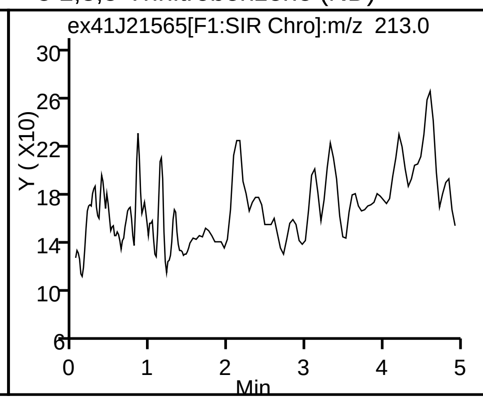
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



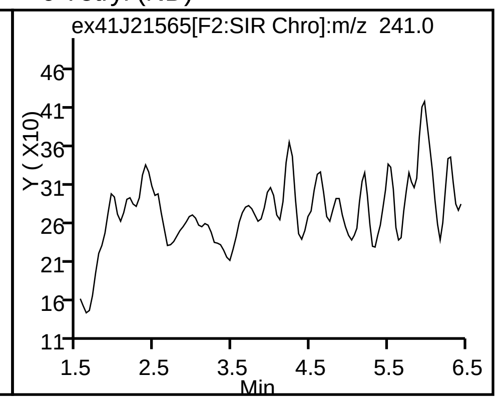
4 RDX (ND)



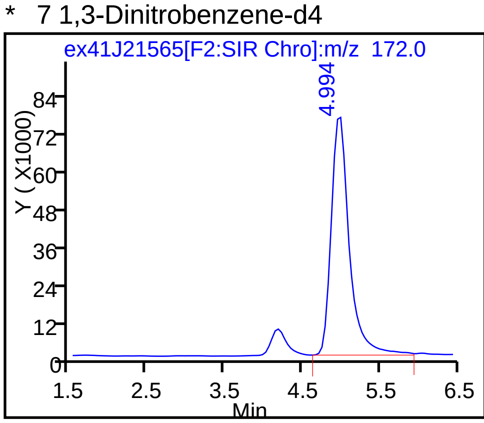
5 1,3,5-Trinitrobenzene (ND)



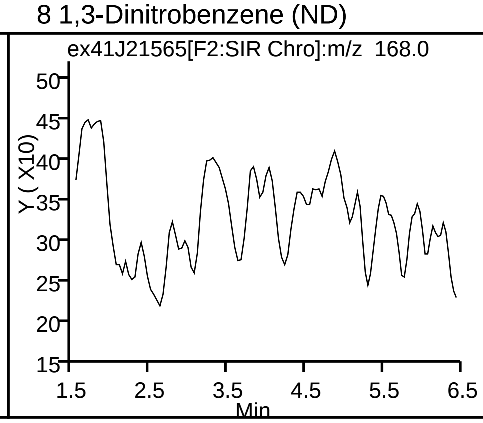
6 Tetryl (ND)



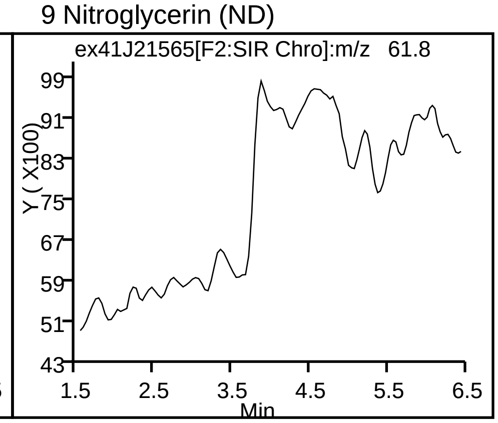
* 7 1,3-Dinitrobenzene-d4



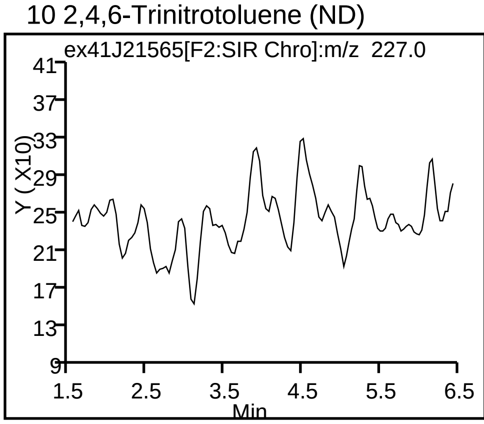
8 1,3-Dinitrobenzene (ND)



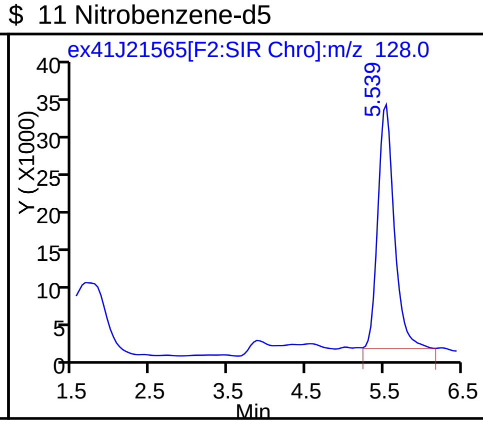
9 Nitroglycerin (ND)



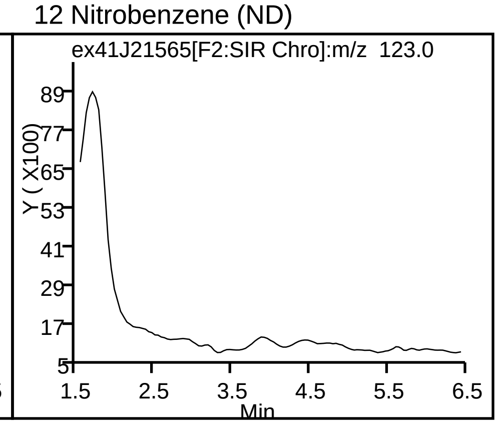
10 2,4,6-Trinitrotoluene (ND)



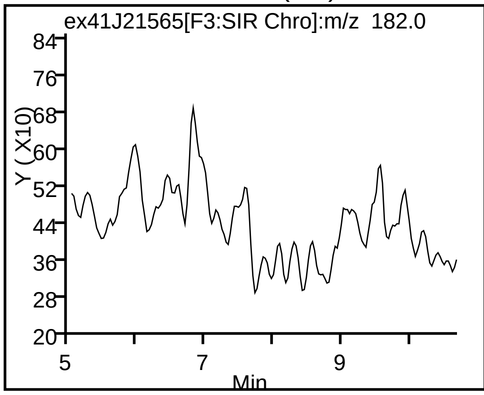
$ 11 Nitrobenzene-d5



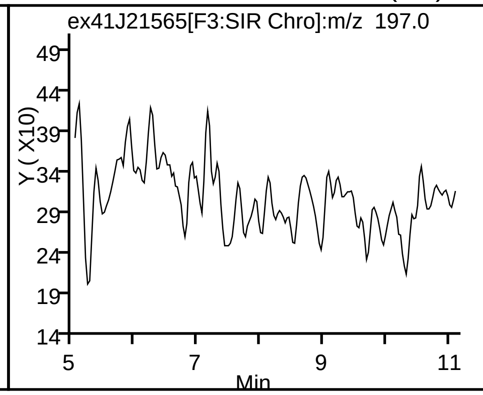
12 Nitrobenzene (ND)



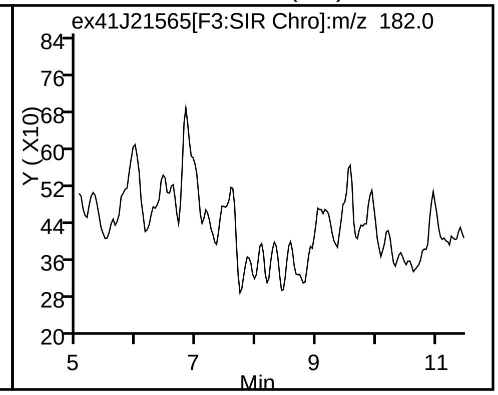
13 3,4-Dinitrotoluene (ND)



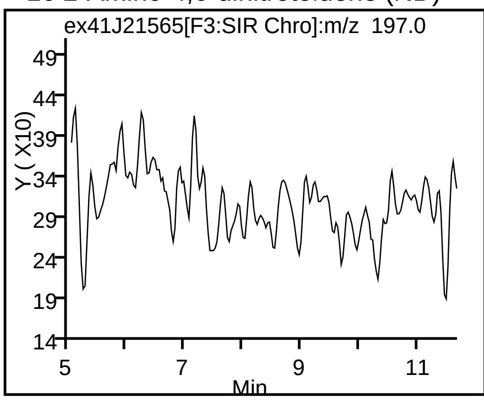
14 4-Amino-2,6-dinitrotoluene (ND)



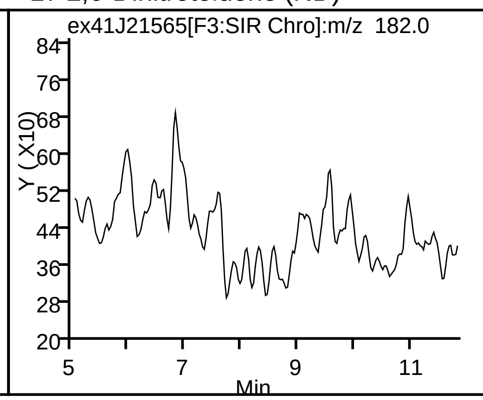
15 2,3-Dinitrotoluene (ND)



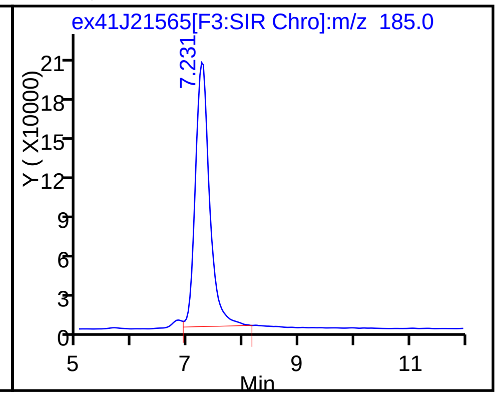
16 2-Amino-4,6-dinitrotoluene (ND)



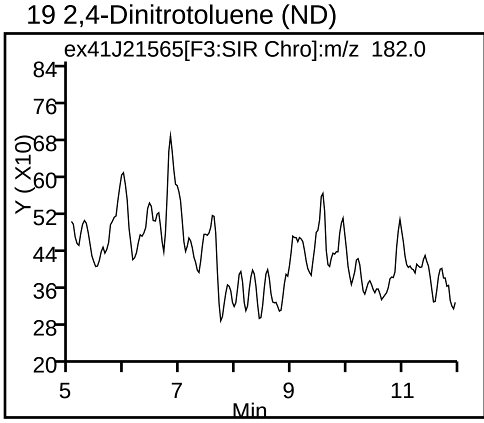
17 2,6-Dinitrotoluene (ND)



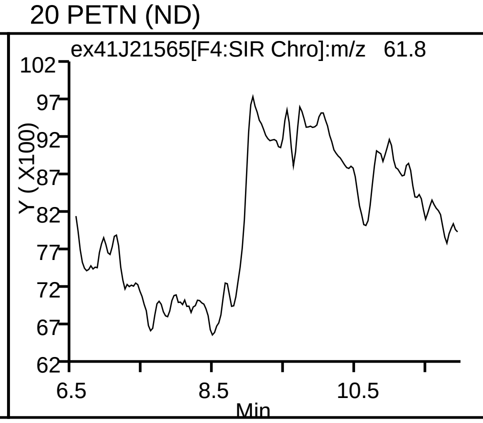
* 18 2,4-dinitrotoluene-d3



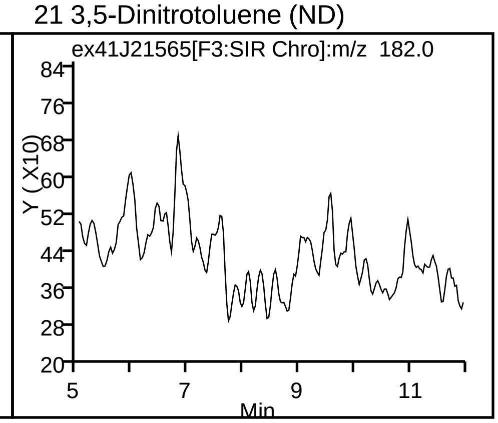
19 2,4-Dinitrotoluene (ND)



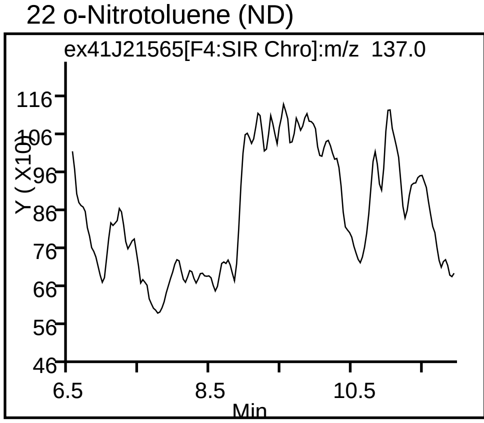
20 PETN (ND)



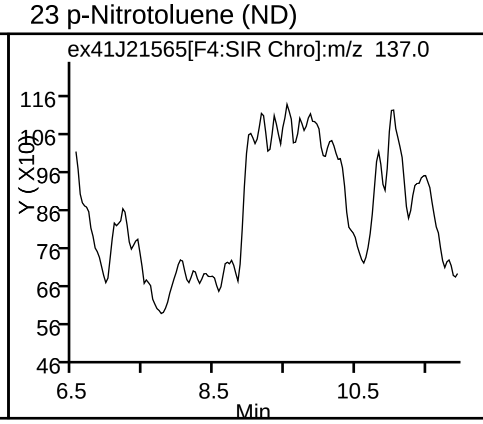
21 3,5-Dinitrotoluene (ND)



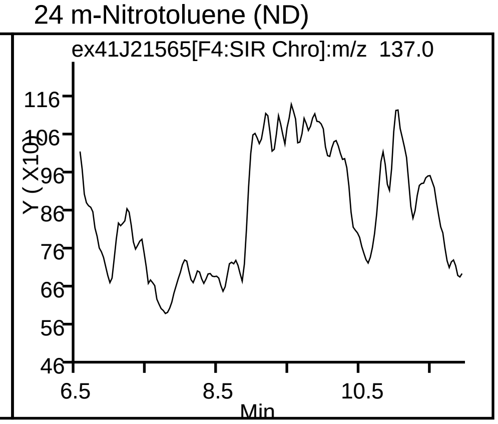
22 o-Nitrotoluene (ND)



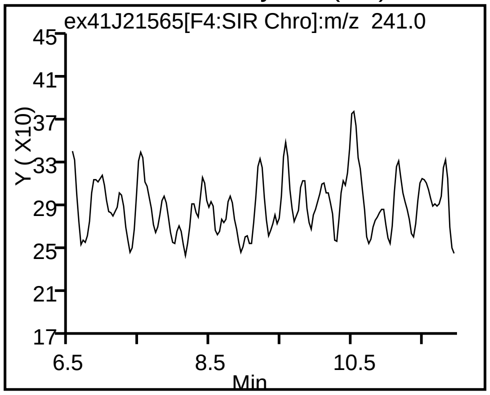
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG29 SB109 | Lab Sample ID: 280-21683-37

Matrix: Solid | Lab File ID: ex41J21566.d

Analysis Method: 8321B | Date Collected: 10/15/2011 10:00

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.40(g) | Date Analyzed: 11/01/2011 12:38

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0050
121-82-4	RDX	0.012	U	0.096	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21566.d		
Lims ID:	280-21683-B-37-B	Client ID:	SB109
Inject. Date:	01-Nov-2011 12:38:15	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-37-B 280-0002689-090		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	33
Lims Batch ID:	94192	Lims Sample ID:	90
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:15	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									1
1	355.0		2.062							
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		669686	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2111309	250.0			
	4 RDX									1
1	281.0		3.032							
	5 1,3,5-Trinitrobenzene									1
1	213.0		3.759							
	6 Tetryl									1
2	241.0		4.469							
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.994	4.954	0.040		1319896	258.7			
	8 1,3-Dinitrobenzene									1
2	168.0		5.034							
	9 Nitroglycerin									
2	61.8		5.034							
	10 2,4,6-Trinitrotoluene									1
2	227.0		5.438							
$	11 Nitrobenzene-d5									
2	128.0	5.540	5.506	0.034	1.109	521221	79.9			
	12 Nitrobenzene									1
2	123.0		5.607							
	13 3,4-Dinitrotoluene									1
3	182.0		5.684							
	14 4-Amino-2,6-dinitrotoluene									1
3	197.0		6.122							
	15 2,3-Dinitrotoluene									1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.837							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.231	-0.030		3804518	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

QC Flag Legend

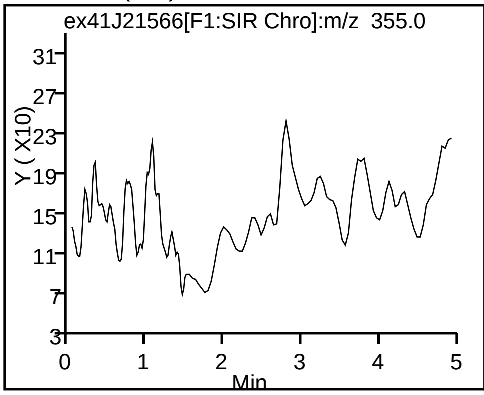
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:41:20 Chrom Revision: 1.2 13-Jul-2011 10:43:06

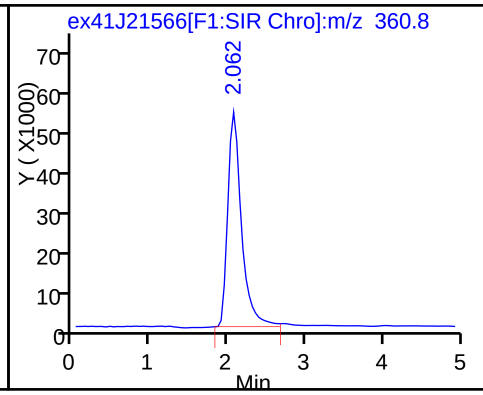
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21566.d

Injection Date:	01-Nov-2011 12:38:15	Limit Group:	LC - 8321A Expl
Client ID:	SB109	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	90
Operator ID:		Injection Vol:	40.00 ul

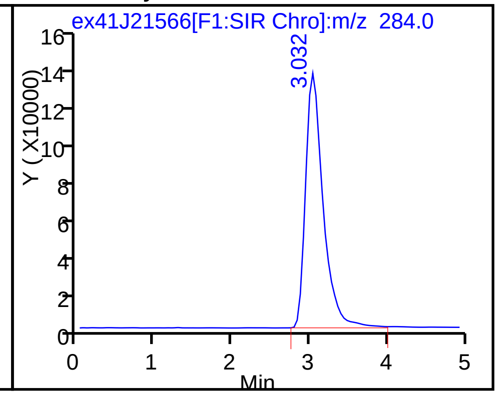
2 HMX (ND)



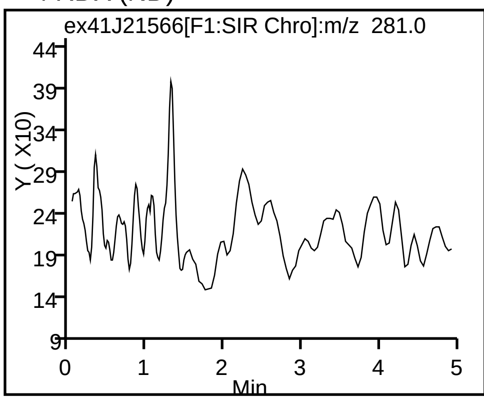
* 1 HMX-13C4



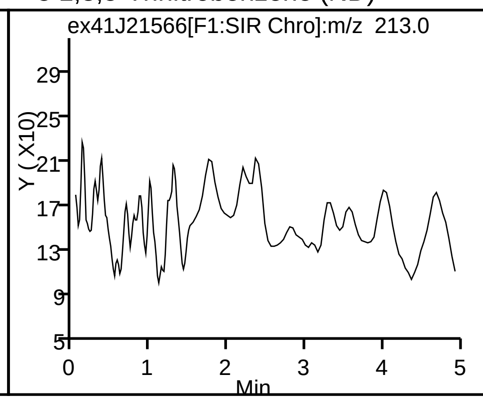
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



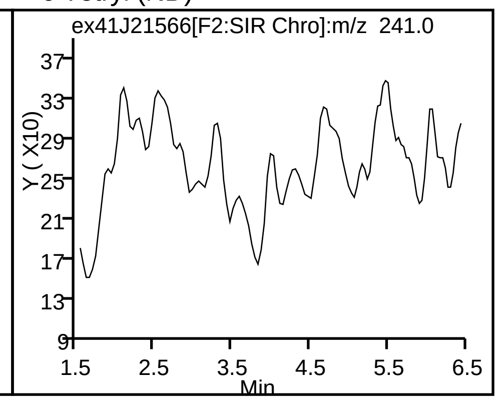
4 RDX (ND)



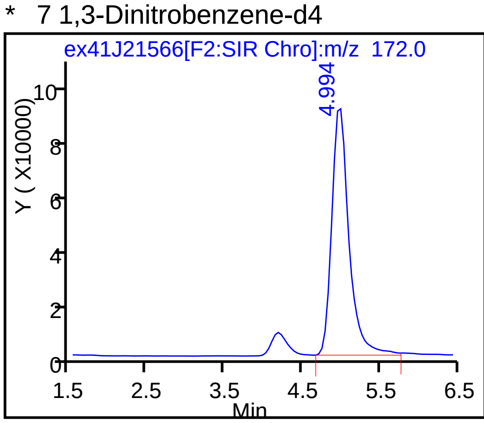
5 1,3,5-Trinitrobenzene (ND)



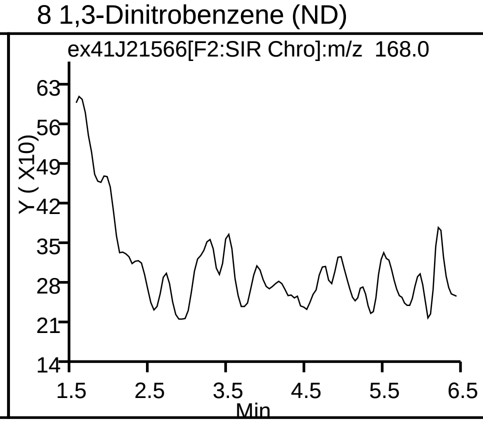
6 Tetryl (ND)



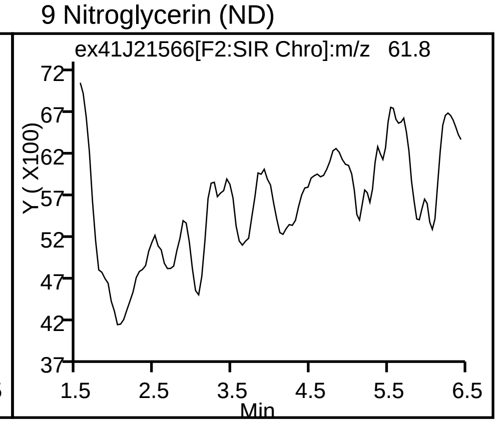
* 7 1,3-Dinitrobenzene-d4



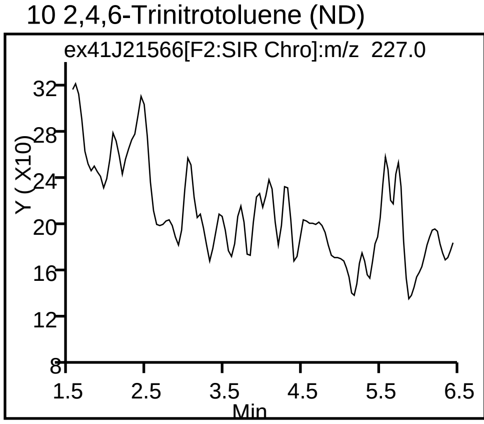
8 1,3-Dinitrobenzene (ND)



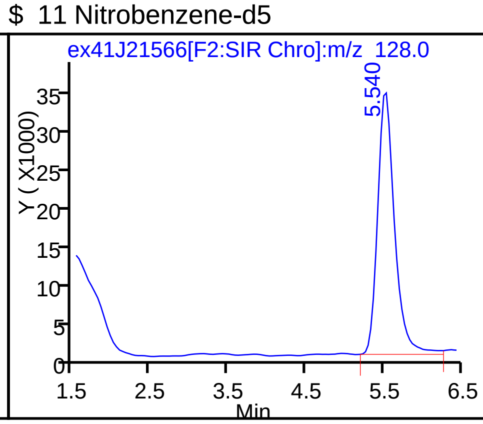
9 Nitroglycerin (ND)



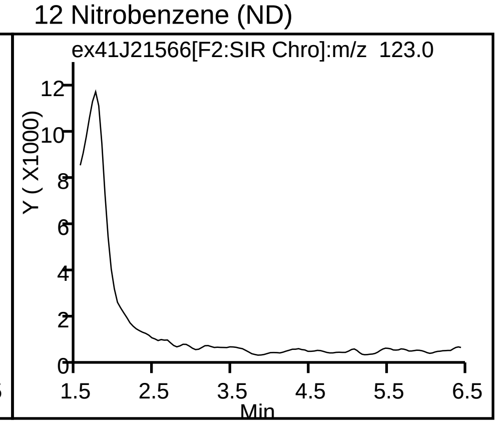
10 2,4,6-Trinitrotoluene (ND)



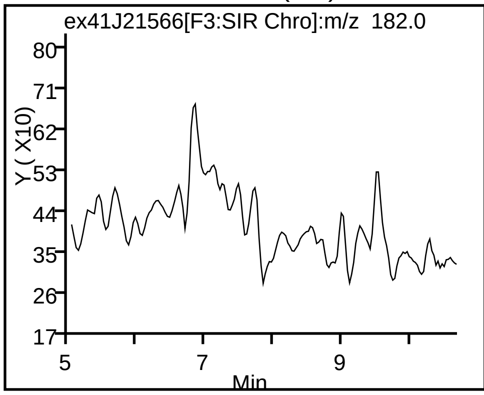
$ 11 Nitrobenzene-d5



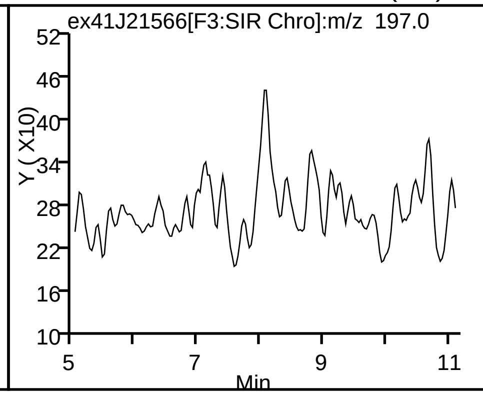
12 Nitrobenzene (ND)



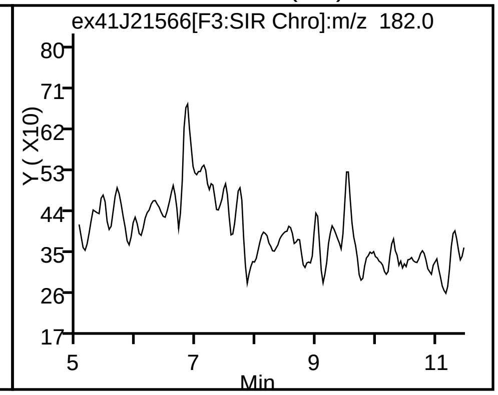
13 3,4-Dinitrotoluene (ND)



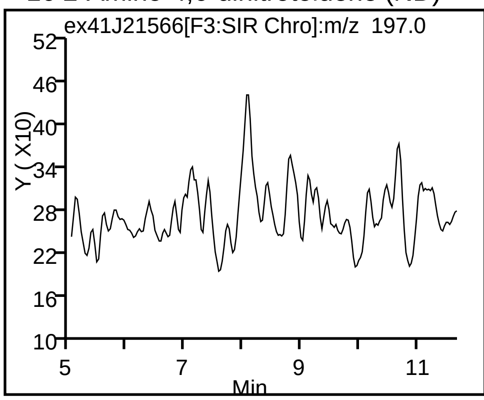
14 4-Amino-2,6-dinitrotoluene (ND)



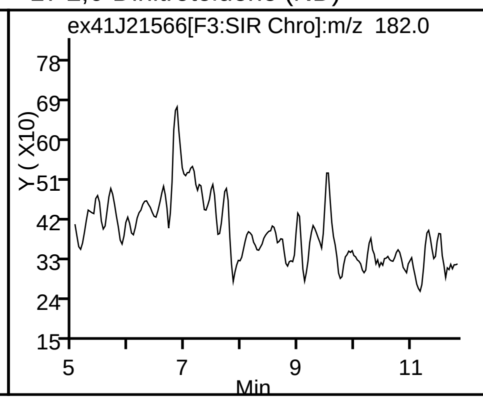
15 2,3-Dinitrotoluene (ND)



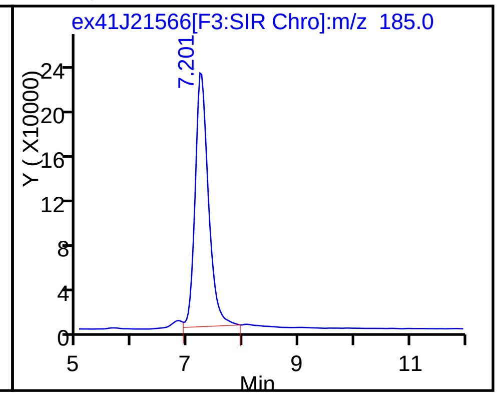
16 2-Amino-4,6-dinitrotoluene (ND)



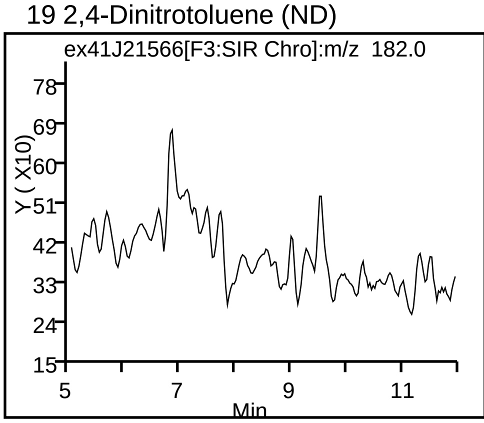
17 2,6-Dinitrotoluene (ND)



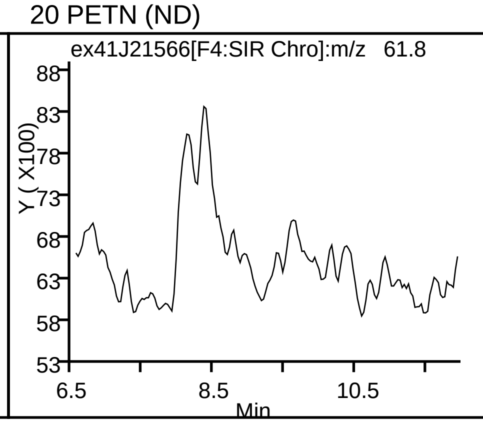
* 18 2,4-dinitrotoluene-d3



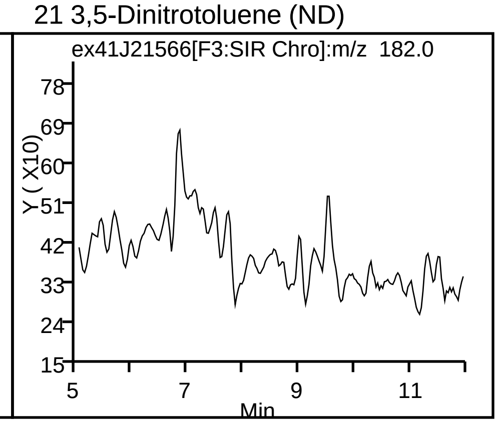
19 2,4-Dinitrotoluene (ND)



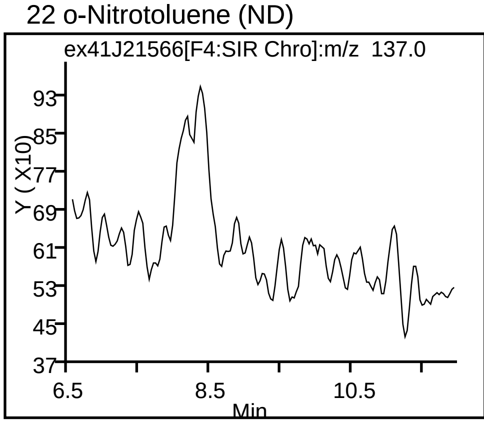
20 PETN (ND)



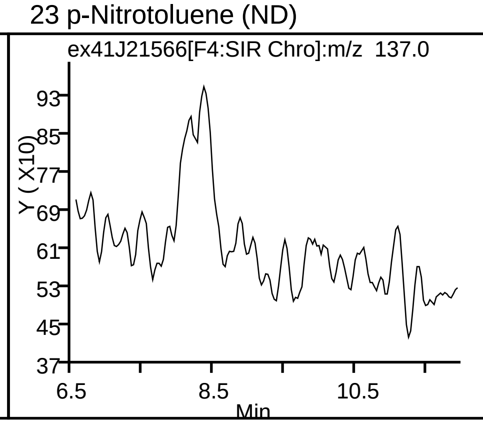
21 3,5-Dinitrotoluene (ND)



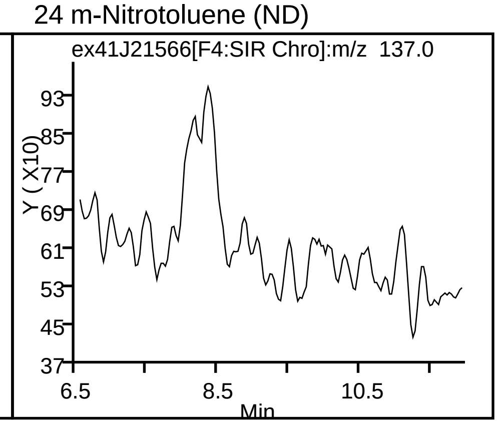
22 o-Nitrotoluene (ND)



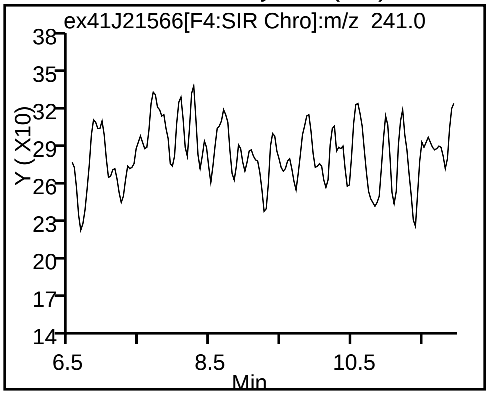
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG29 SB110   Lab Sample ID: 280-21683-38

Matrix: Solid   Lab File ID: ex41J21567.d

Analysis Method: 8321B   Date Collected: 10/15/2011 10:05

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.27(g)   Date Analyzed: 11/01/2011 12:51

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21567.d		
Lims ID:	280-21683-A-38-C	Client ID:	SB110
Inject. Date:	01-Nov-2011 12:51:48	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-38-C 280-0002689-091		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	34
Lims Batch ID:	94192	Lims Sample ID:	91
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:15	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 02-Nov-2011 06:33:06

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		603846	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2095031	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1477569	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	565057	77.4			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4443203	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

QC Flag Legend

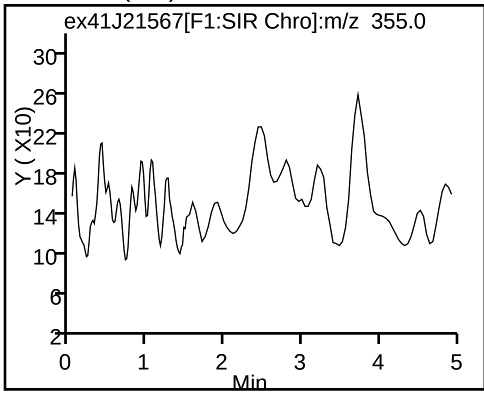
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:41:21 Chrom Revision: 1.2 13-Jul-2011 10:43:06

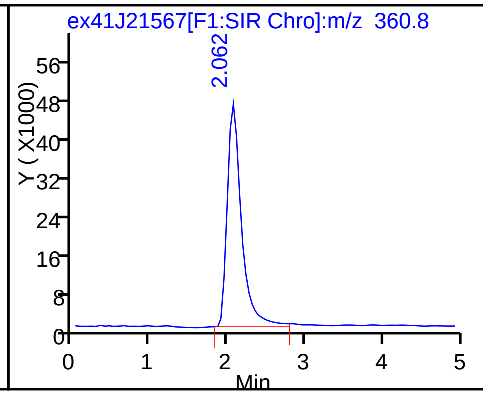
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21567.d

Injection Date:	01-Nov-2011 12:51:48	Limit Group:	LC - 8321A Expl
Client ID:	SB110	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	91
Operator ID:		Injection Vol:	40.00 ul

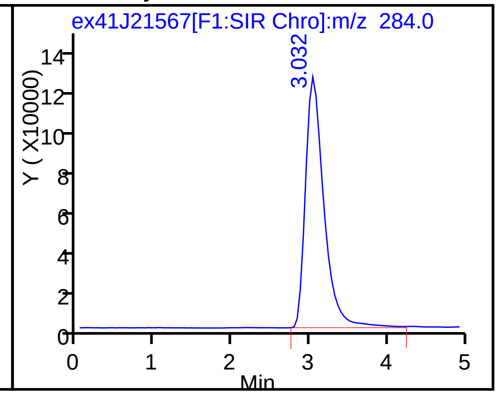
2 HMX (ND)



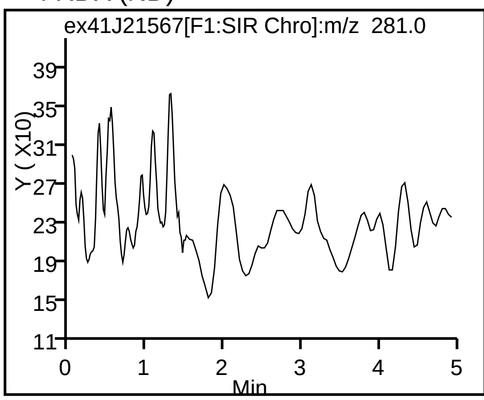
* 1 HMX-13C4



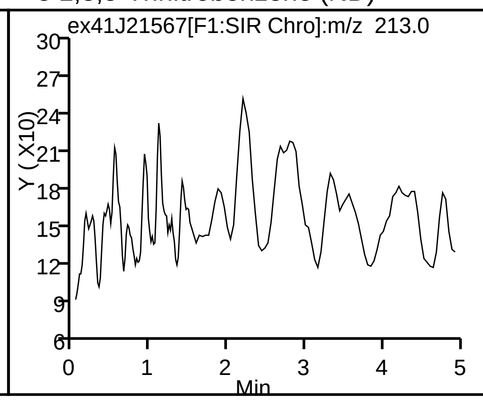
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



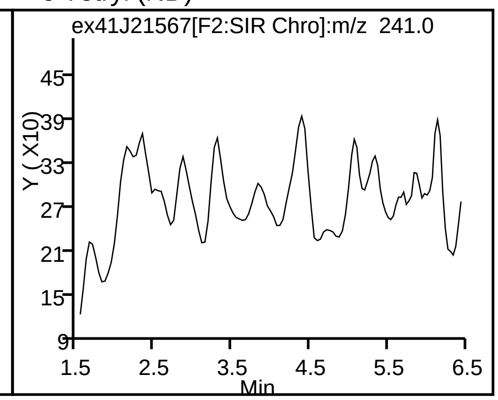
4 RDX (ND)



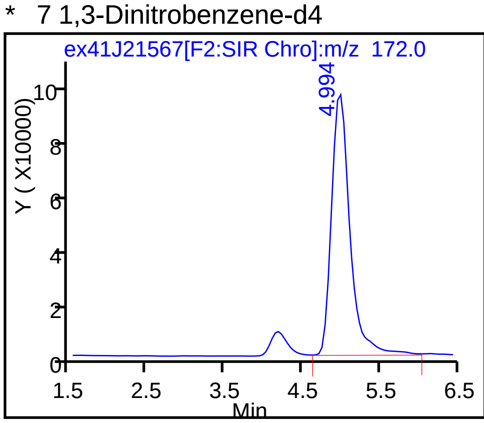
5 1,3,5-Trinitrobenzene (ND)



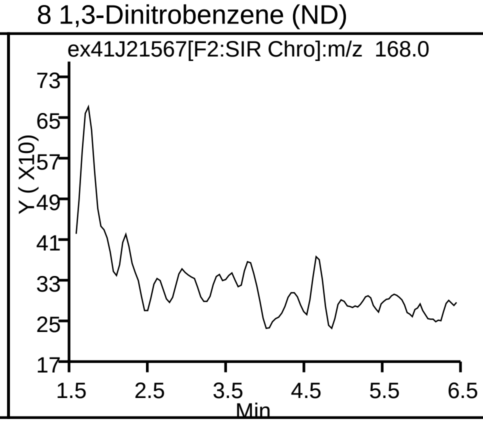
6 Tetryl (ND)



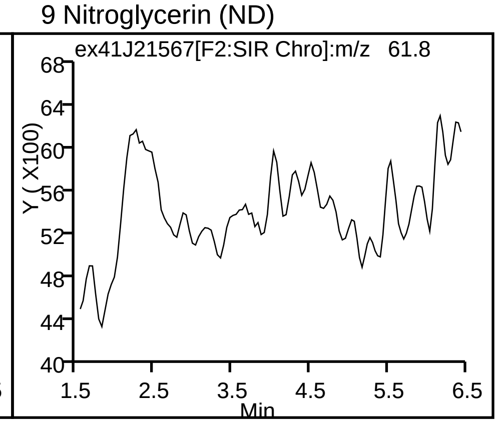
* 7 1,3-Dinitrobenzene-d4



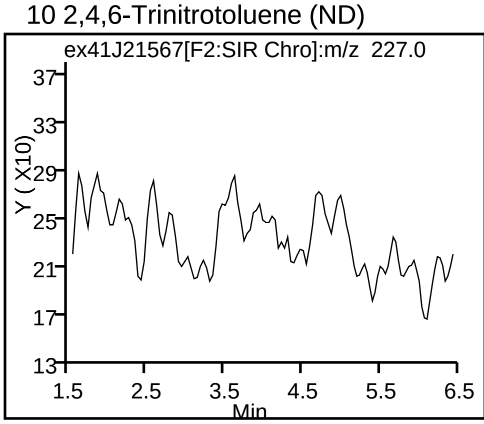
8 1,3-Dinitrobenzene (ND)



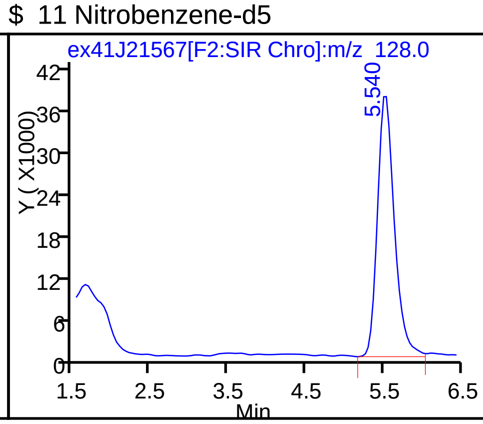
9 Nitroglycerin (ND)



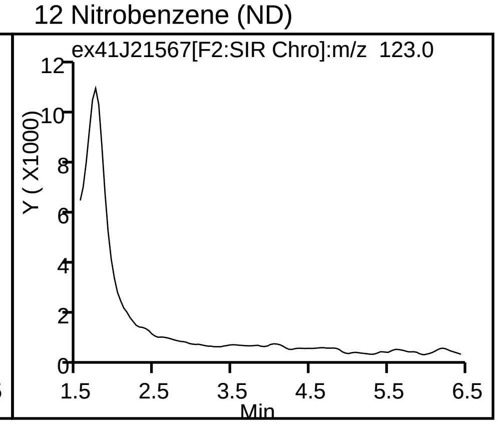
10 2,4,6-Trinitrotoluene (ND)



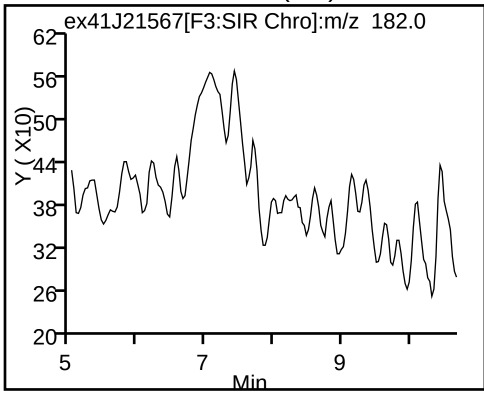
$ 11 Nitrobenzene-d5



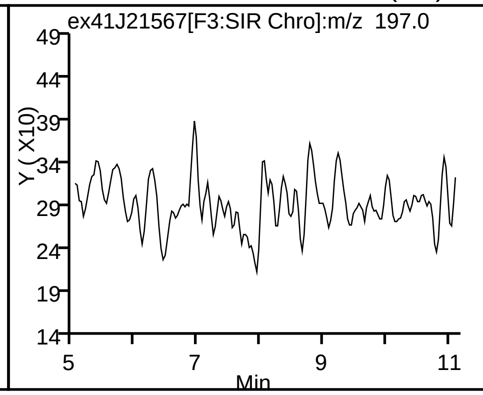
12 Nitrobenzene (ND)



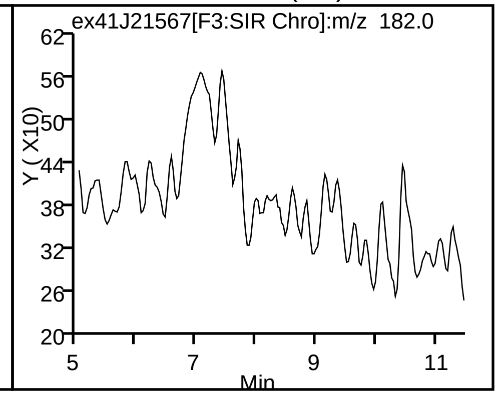
13 3,4-Dinitrotoluene (ND)



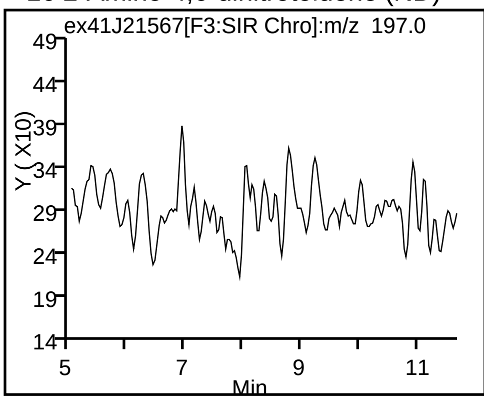
14 4-Amino-2,6-dinitrotoluene (ND)



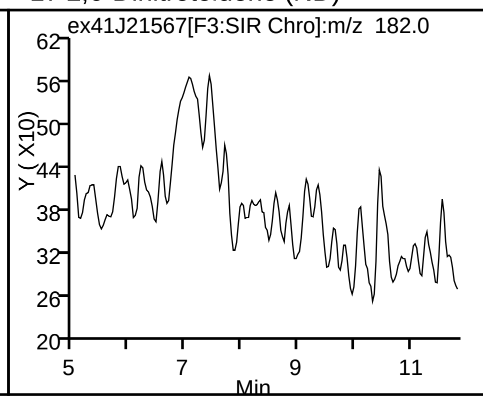
15 2,3-Dinitrotoluene (ND)



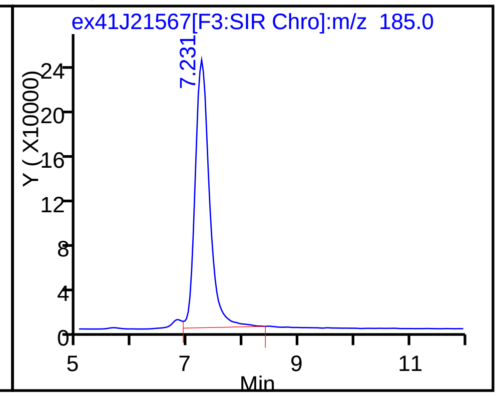
16 2-Amino-4,6-dinitrotoluene (ND)



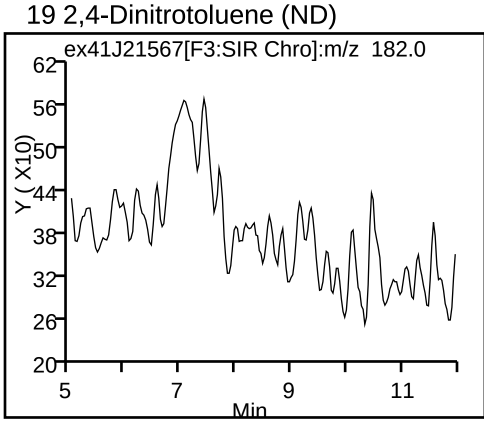
17 2,6-Dinitrotoluene (ND)



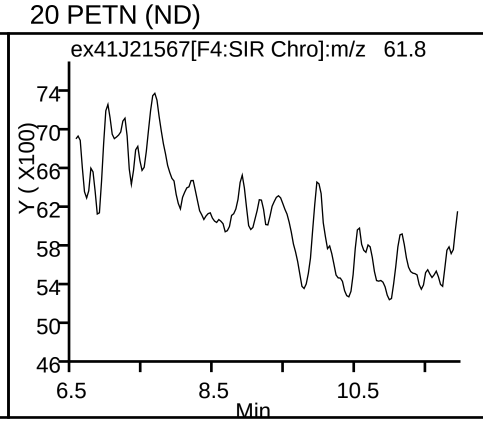
* 18 2,4-dinitrotoluene-d3



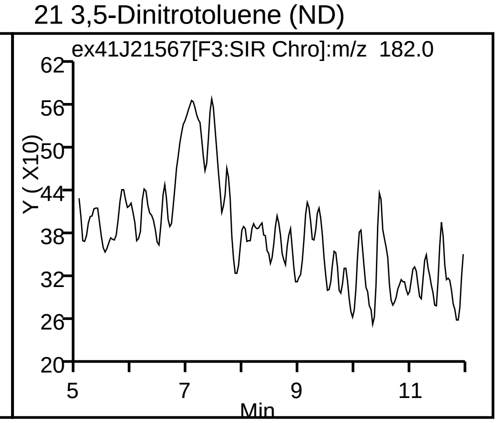
19 2,4-Dinitrotoluene (ND)



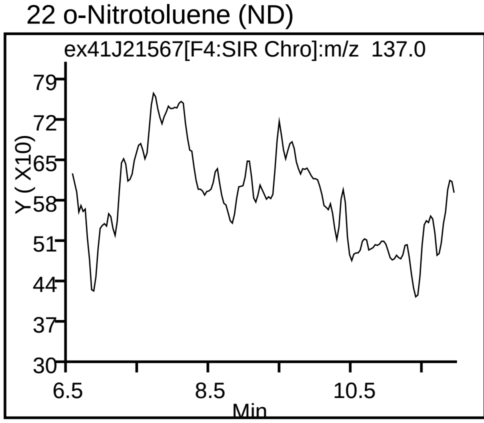
20 PETN (ND)



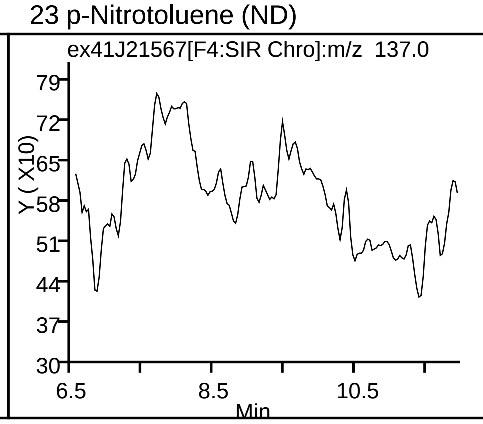
21 3,5-Dinitrotoluene (ND)



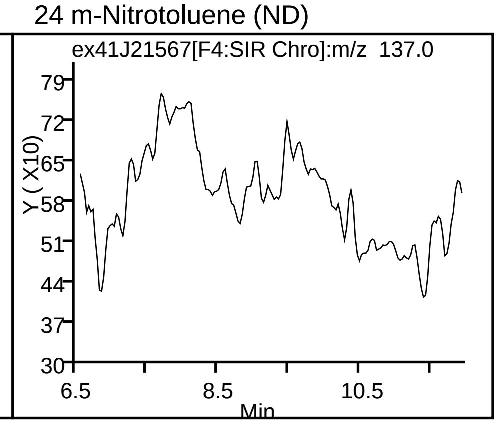
22 o-Nitrotoluene (ND)



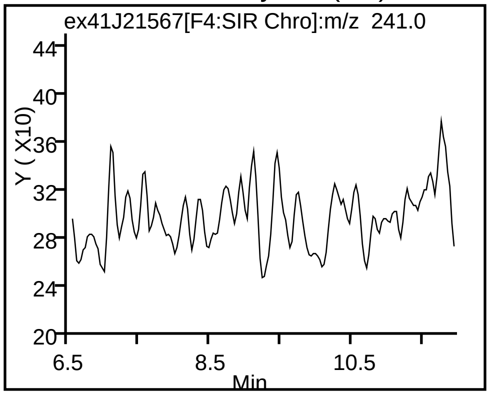
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver　　Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG06 SB062　　Lab Sample ID: 280-21683-39

Matrix: Solid　　Lab File ID: ex41J21569.d

Analysis Method: 8321B　　Date Collected: 10/15/2011 13:11

Extraction Method: 8330B　　Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.03(g)　　Date Analyzed: 11/01/2011 13:19

Con. Extract Vol.: 40(mL)　　Dilution Factor: 1

Injection Volume: 40(uL)　　GC Column: IonPac　　ID: 2(mm)

% Moisture:　　GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192　　Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0082
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21569.d		
Lims ID:	280-21683-B-39-B	Client ID:	SB062
Inject. Date:	01-Nov-2011 13:19:13	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-39-B 280-0002689-093		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	35
Lims Batch ID:	94192	Lims Sample ID:	93
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:21	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		660476	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2153188	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1456660	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	546824	76.0			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.837							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.231	0.000		4016991	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									1
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

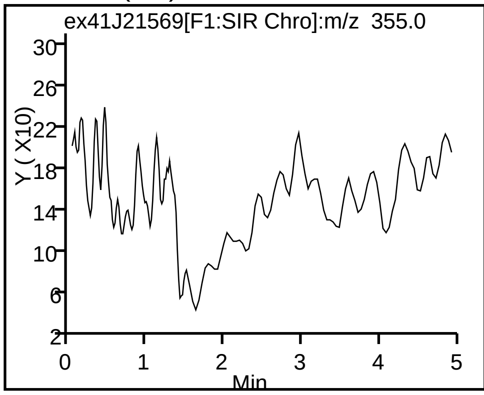
QC Flag Legend

Processing Flags
1 - Missing Peaks

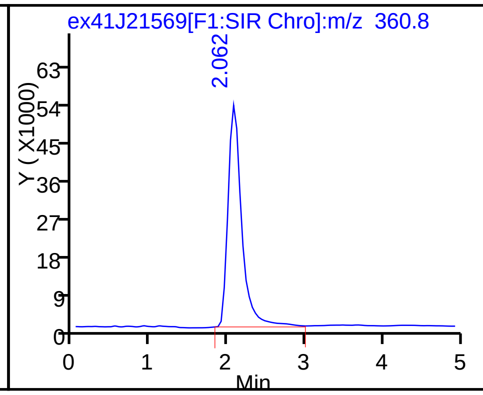
Report Date: 02-Nov-2011 06:41:23 | Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21569.d		
Injection Date:	01-Nov-2011 13:19:13	Limit Group:	LC - 8321A Expl
Client ID:	SB062	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	93
Operator ID:		Injection Vol:	40.00 ul

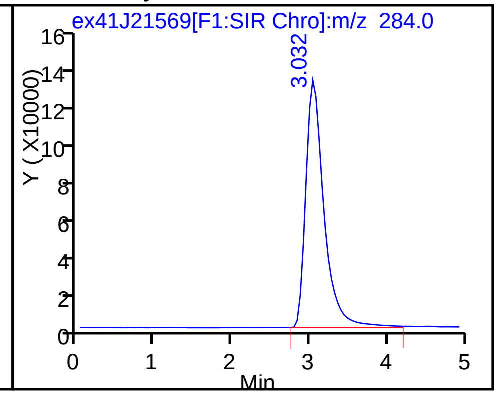
2 HMX (ND)



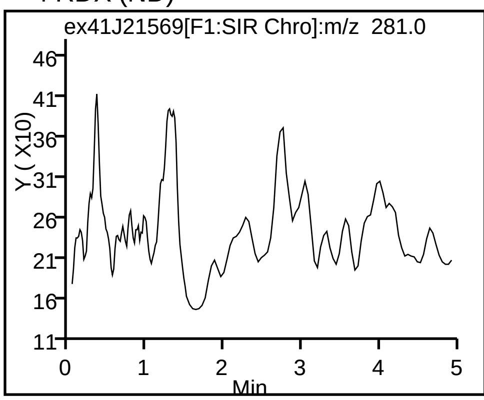
* 1 HMX-13C4



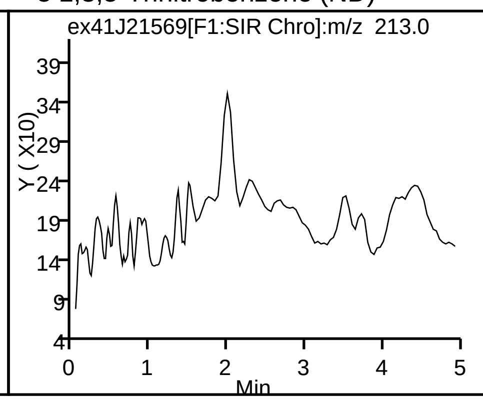
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



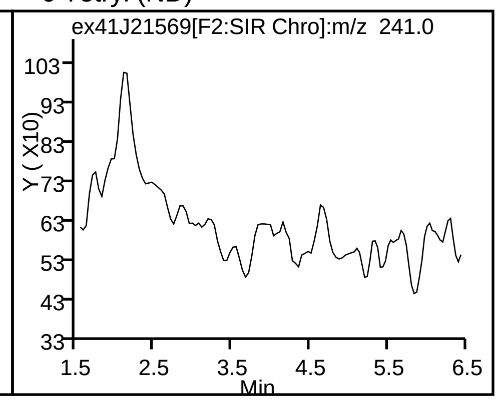
4 RDX (ND)



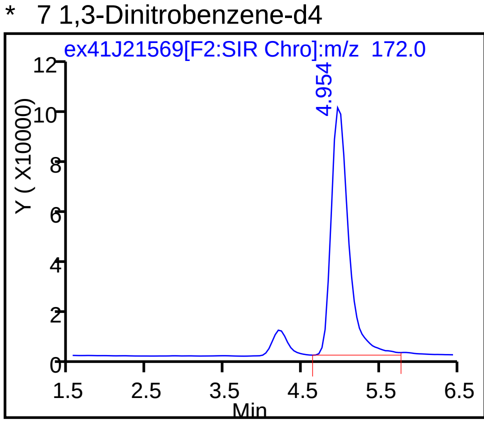
5 1,3,5-Trinitrobenzene (ND)



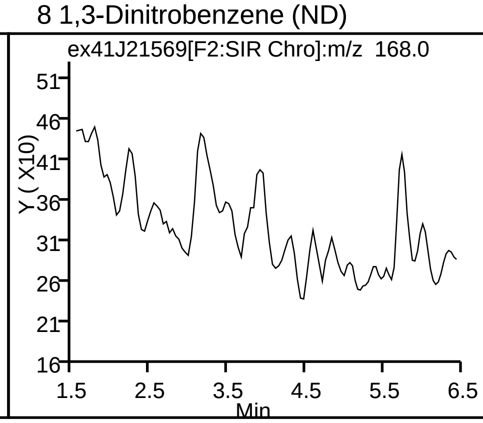
6 Tetryl (ND)



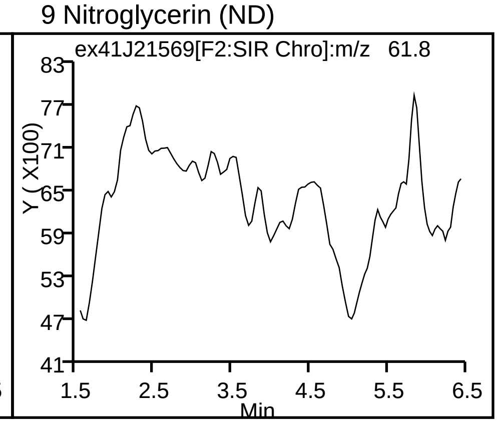
* 7 1,3-Dinitrobenzene-d4



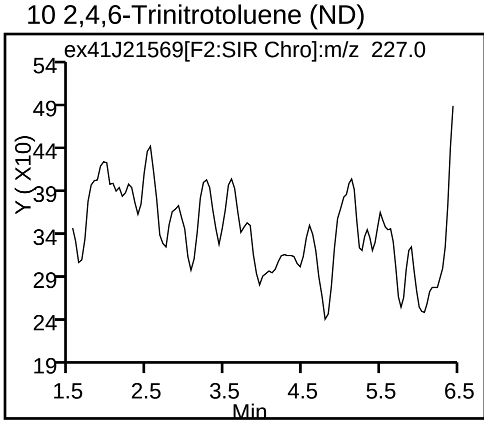
8 1,3-Dinitrobenzene (ND)



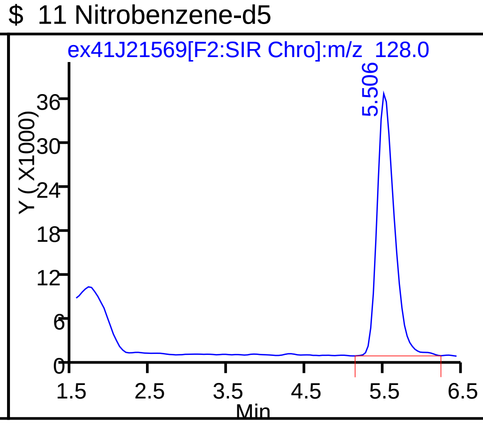
9 Nitroglycerin (ND)



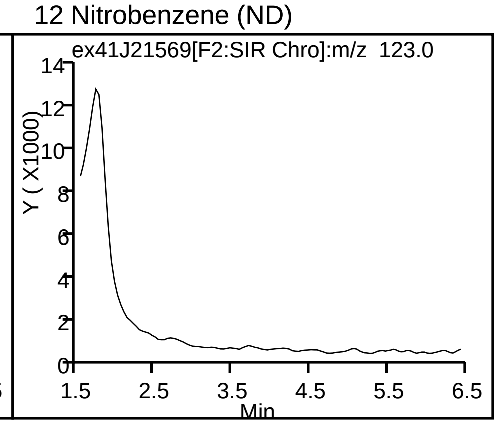
10 2,4,6-Trinitrotoluene (ND)



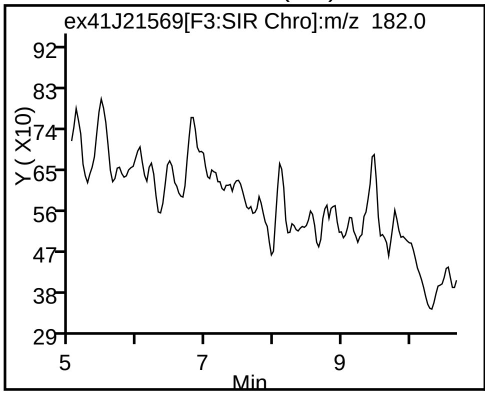
$ 11 Nitrobenzene-d5



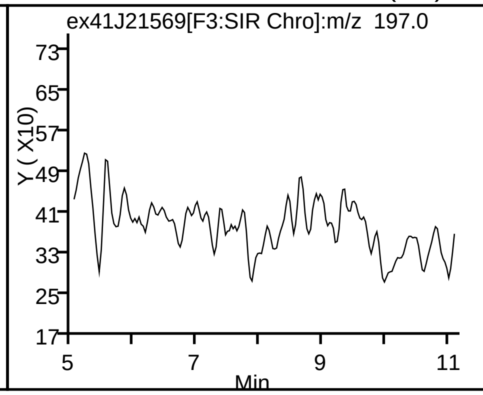
12 Nitrobenzene (ND)



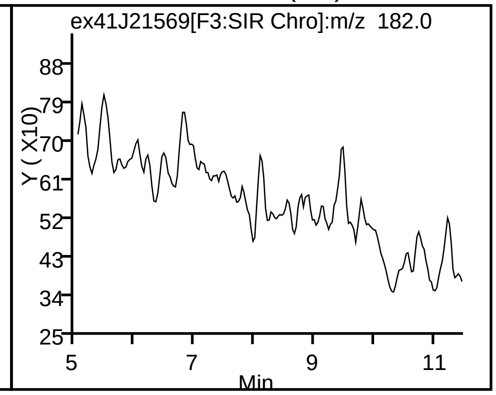
13 3,4-Dinitrotoluene (ND)



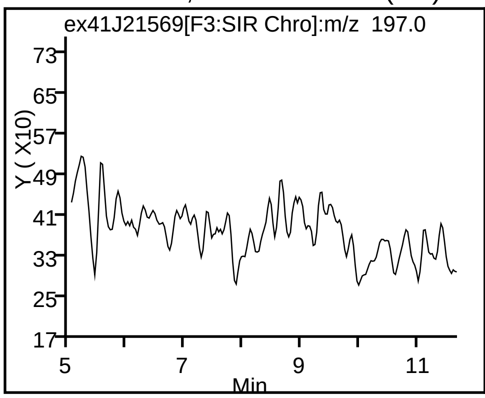
14 4-Amino-2,6-dinitrotoluene (ND)



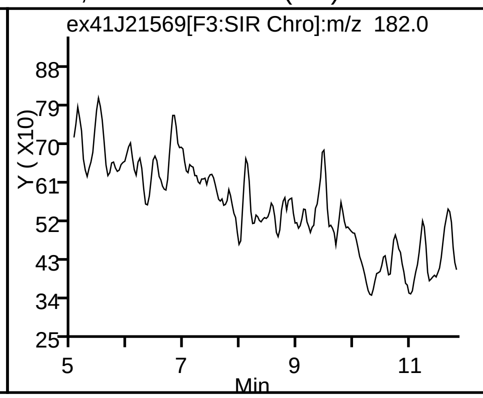
15 2,3-Dinitrotoluene (ND)



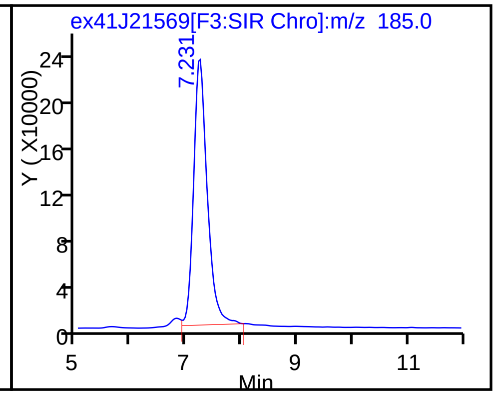
16 2-Amino-4,6-dinitrotoluene (ND)



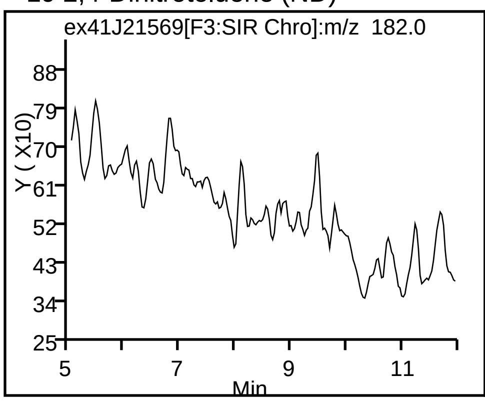
17 2,6-Dinitrotoluene (ND)



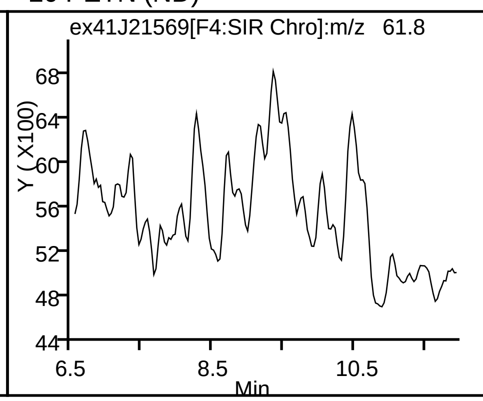
* 18 2,4-dinitrotoluene-d3



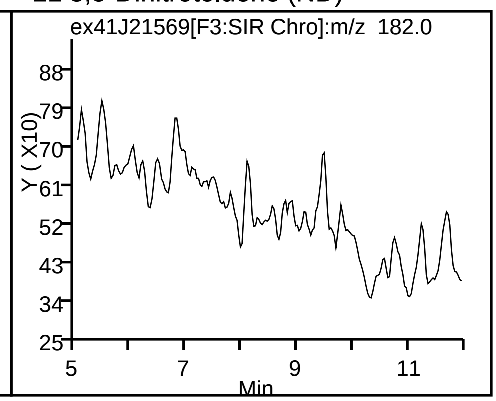
19 2,4-Dinitrotoluene (ND)



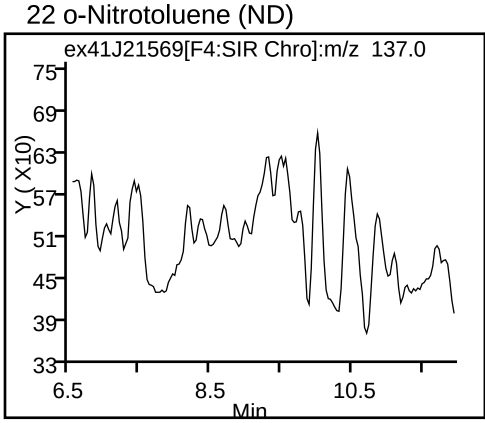
20 PETN (ND)



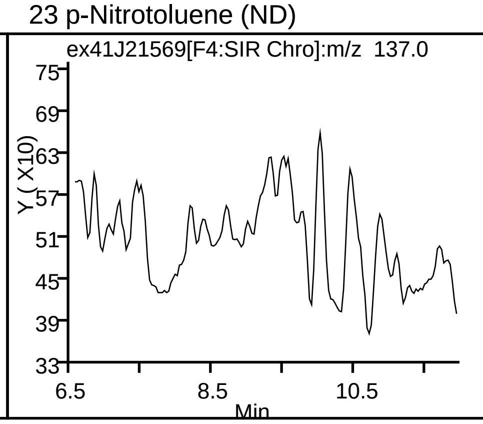
21 3,5-Dinitrotoluene (ND)



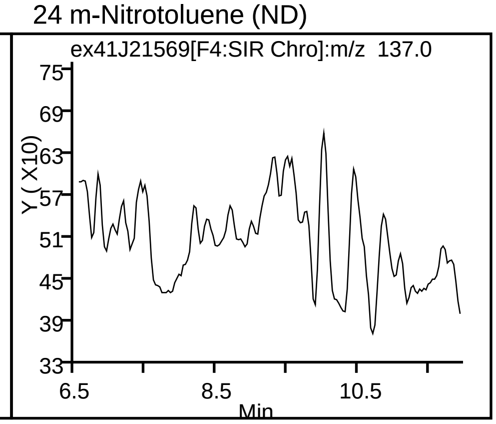
22 o-Nitrotoluene (ND)



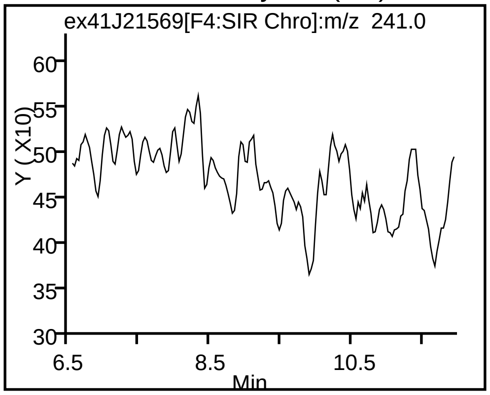
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG06 SB063 | Lab Sample ID: 280-21683-40

Matrix: Solid | Lab File ID: ex41J21570.d

Analysis Method: 8321B | Date Collected: 10/15/2011 13:16

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.05(g) | Date Analyzed: 11/01/2011 13:33

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	75		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21570.d		
Lims ID:	280-21683-A-40-C	Client ID:	SB063
Inject. Date:	01-Nov-2011 13:33:04	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-40-C 280-0002689-094		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	36
Lims Batch ID:	94192	Lims Sample ID:	94
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:21	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									1
1	355.0		2.062							
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		569952	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		1606354	250.0			
	4 RDX									1
1	281.0		3.032							
	5 1,3,5-Trinitrobenzene									1
1	213.0		3.759							
	6 Tetryl									1
2	241.0		4.469							
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		1509005	258.7			
	8 1,3-Dinitrobenzene									1
2	168.0		5.034							
	9 Nitroglycerin									
2	61.8		5.034							
	10 2,4,6-Trinitrotoluene									1
2	227.0		5.438							
$	11 Nitrobenzene-d5									
2	128.0	5.540	5.506	0.034	1.118	552064	74.0			
	12 Nitrobenzene									1
2	123.0		5.607							
	13 3,4-Dinitrotoluene									1
3	182.0		5.684							
	14 4-Amino-2,6-dinitrotoluene									1
3	197.0		6.122							
	15 2,3-Dinitrotoluene									1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.837							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.231	0.000		3950229	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									1
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									
4	137.0		8.254							
23	p-Nitrotoluene									
4	137.0		8.800							
24	m-Nitrotoluene									
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

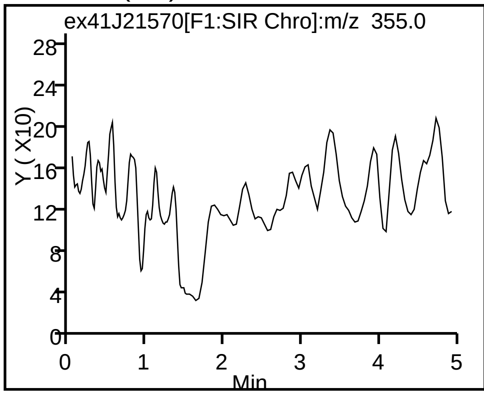
QC Flag Legend

Processing Flags
1 - Missing Peaks

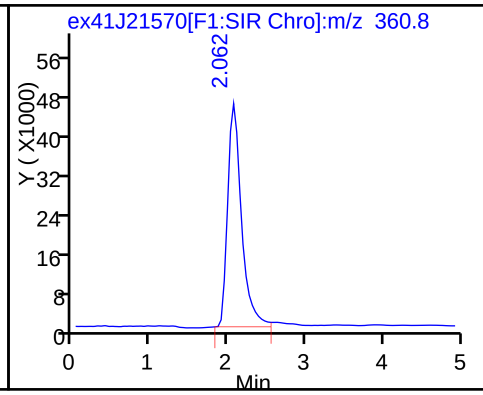
Report Date: 02-Nov-2011 06:41:23 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21570.d

Injection Date:	01-Nov-2011 13:33:04	Limit Group:	LC - 8321A Expl
Client ID:	SB063	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	94
Operator ID:		Injection Vol:	40.00 ul

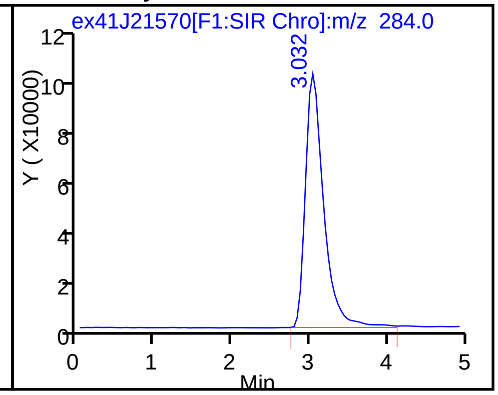
2 HMX (ND)



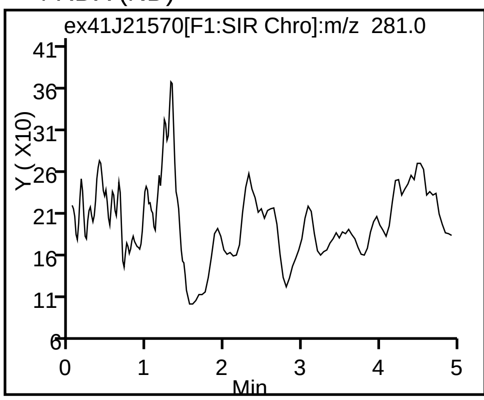
* 1 HMX-13C4



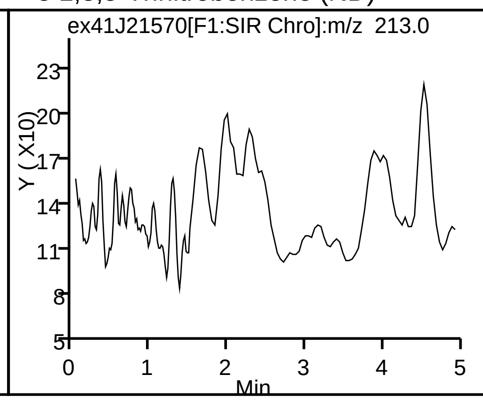
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



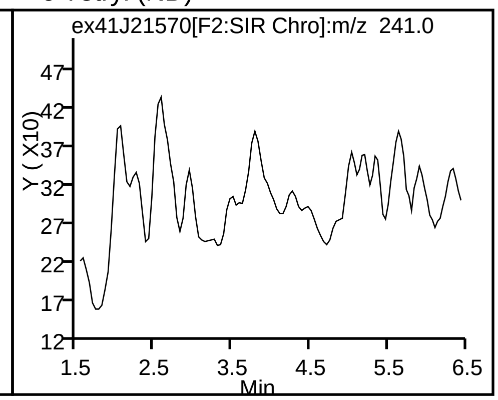
4 RDX (ND)



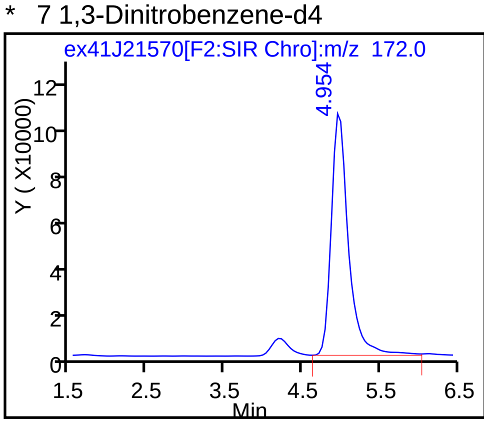
5 1,3,5-Trinitrobenzene (ND)



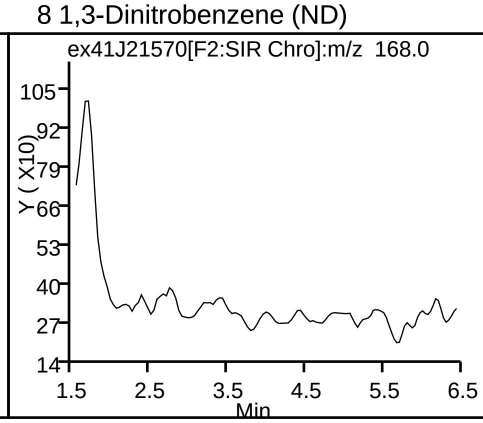
6 Tetryl (ND)



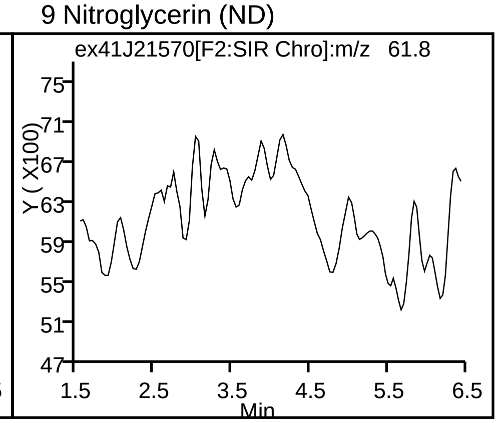
* 7 1,3-Dinitrobenzene-d4



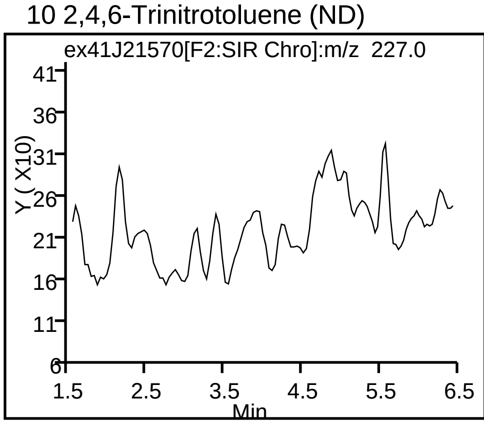
8 1,3-Dinitrobenzene (ND)



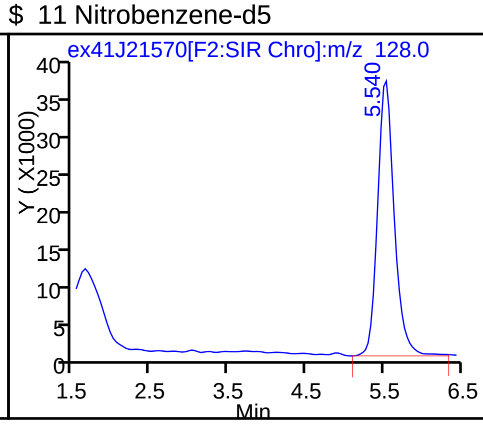
9 Nitroglycerin (ND)



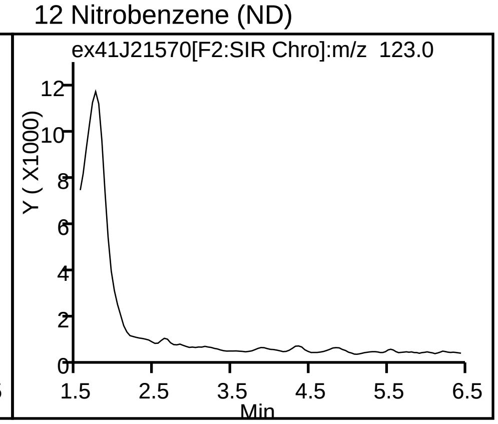
10 2,4,6-Trinitrotoluene (ND)



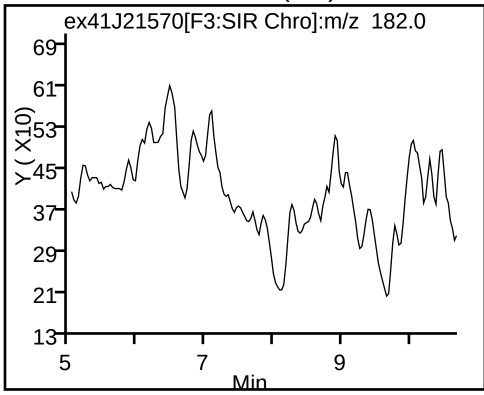
$ 11 Nitrobenzene-d5



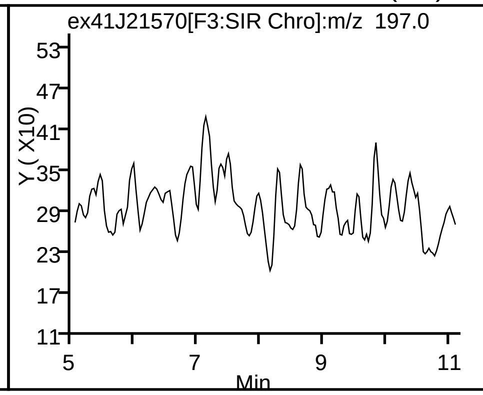
12 Nitrobenzene (ND)



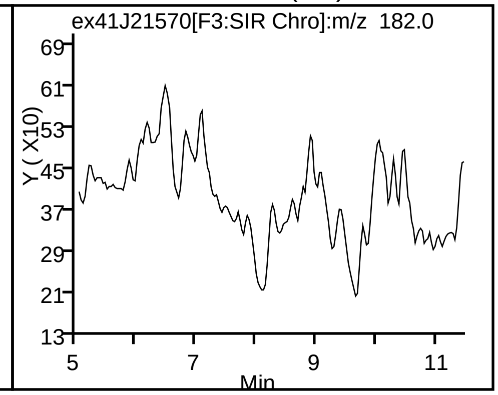
13 3,4-Dinitrotoluene (ND)



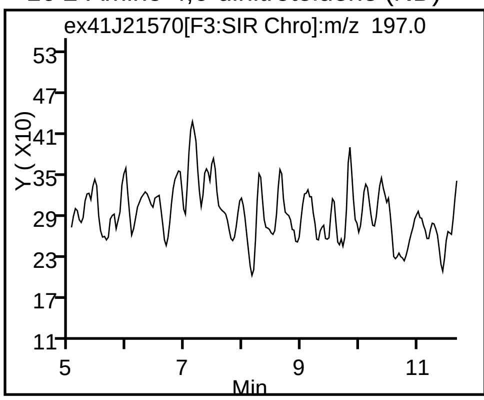
14 4-Amino-2,6-dinitrotoluene (ND)



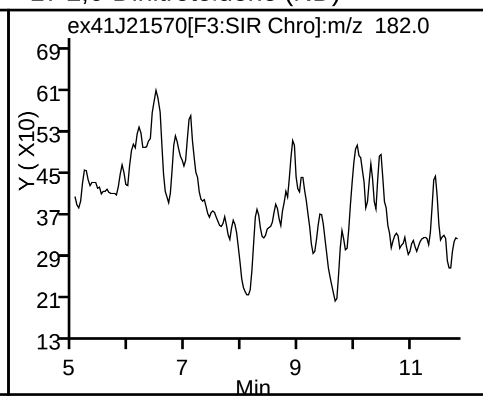
15 2,3-Dinitrotoluene (ND)



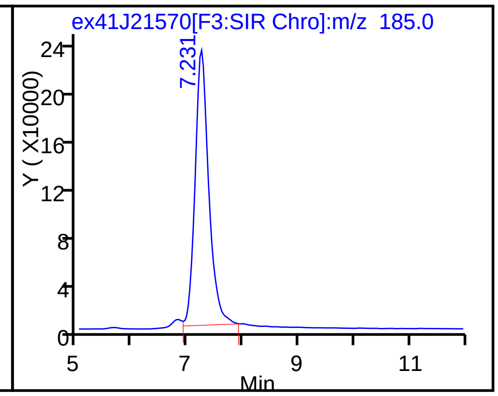
16 2-Amino-4,6-dinitrotoluene (ND)



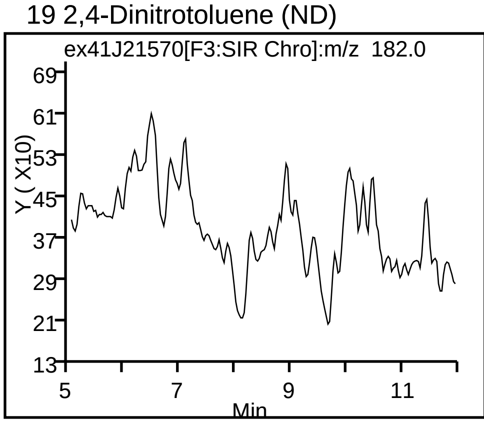
17 2,6-Dinitrotoluene (ND)



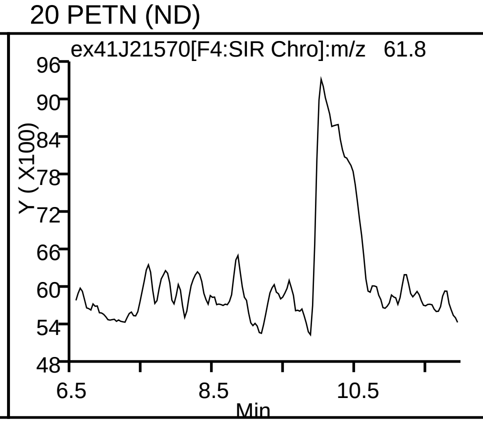
* 18 2,4-dinitrotoluene-d3



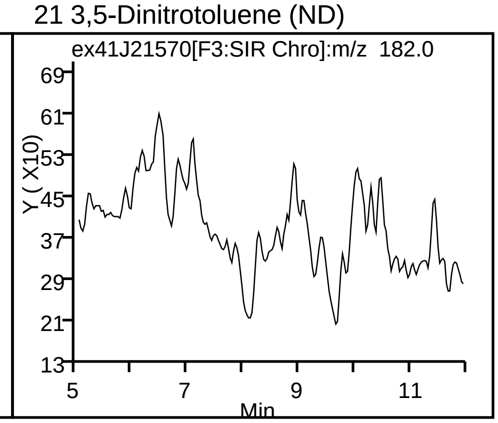
19 2,4-Dinitrotoluene (ND)



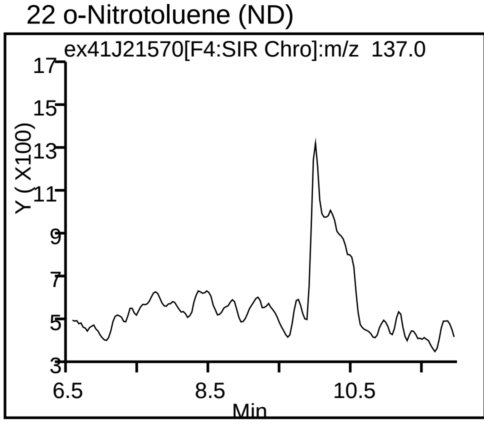
20 PETN (ND)



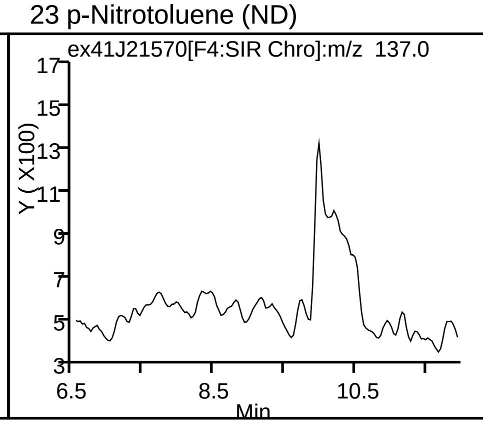
21 3,5-Dinitrotoluene (ND)



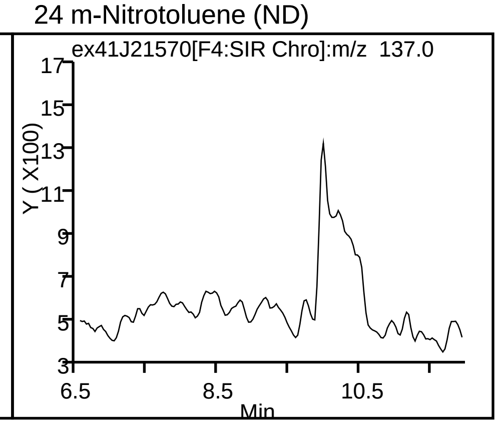
22 o-Nitrotoluene (ND)



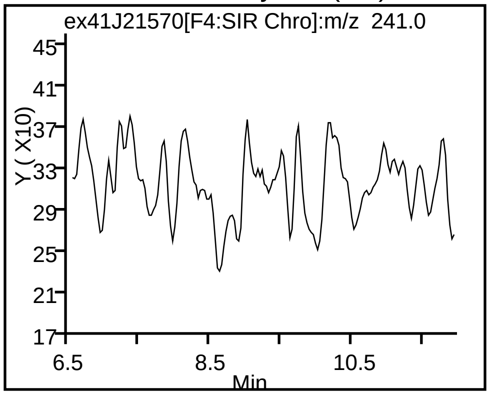
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG06 SB064   Lab Sample ID: 280-21683-41

Matrix: Solid   Lab File ID: ex41J21571.d

Analysis Method: 8321B   Date Collected: 10/15/2011 13:16

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.91(g)   Date Analyzed: 11/01/2011 13:46

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.092	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.011	U	0.092	0.011	0.0065
118-96-7	2,4,6-Trinitrotoluene	0.011	U	0.092	0.011	0.0046
121-14-2	2,4-Dinitrotoluene	0.011	U	0.092	0.011	0.0075
606-20-2	2,6-Dinitrotoluene	0.023	U	0.092	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.092	0.023	0.011
88-72-2	2-Nitrotoluene	0.011	U	0.092	0.011	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.092	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.011	U	0.092	0.011	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.092	0.023	0.010
2691-41-0	HMX	0.011	U	0.092	0.011	0.0053
98-95-3	Nitrobenzene	0.011	U	0.092	0.011	0.0099
55-63-0	Nitroglycerin	0.011	U	0.092	0.011	0.0096
78-11-5	PETN	0.011	U	0.092	0.011	0.0047
121-82-4	RDX	0.011	U	0.092	0.011	0.0040
479-45-8	Tetryl	0.011	U	0.092	0.011	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	72		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21571.d		
Lims ID:	280-21683-A-41-E	Client ID:	SB064
Inject. Date:	01-Nov-2011 13:46:38	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-41-E 280-0002689-095		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	37
Lims Batch ID:	94192	Lims Sample ID:	95
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:21	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									1
1	355.0		2.062							
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		594286	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		1860522	250.0			
	4 RDX									1
1	281.0		3.032							
	5 1,3,5-Trinitrobenzene									1
1	213.0		3.759							
	6 Tetryl									1
2	241.0		4.469							
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		1344045	258.7			
	8 1,3-Dinitrobenzene									1
2	168.0		5.034							
	9 Nitroglycerin									1
2	61.8		5.034							
	10 2,4,6-Trinitrotoluene									1
2	227.0		5.438							
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.111	473231	71.2			
	12 Nitrobenzene									1
2	123.0		5.607							
	13 3,4-Dinitrotoluene									1
3	182.0		5.684							
	14 4-Amino-2,6-dinitrotoluene									1
3	197.0		6.122							
	15 2,3-Dinitrotoluene									1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4174396	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

QC Flag Legend

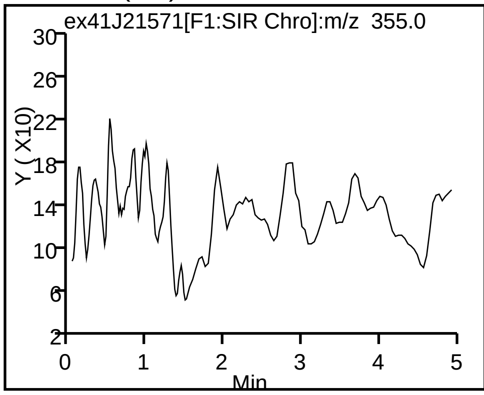
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:41:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06

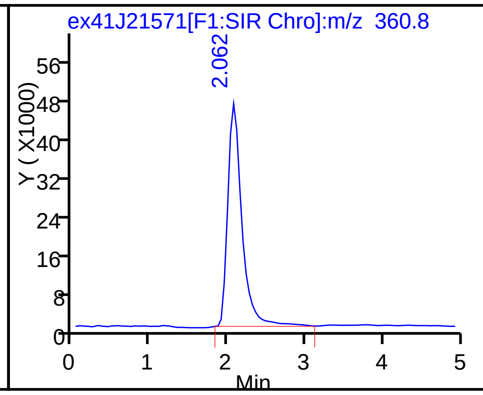
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21571.d

Injection Date:	01-Nov-2011 13:46:38	Limit Group:	LC - 8321A Expl
Client ID:	SB064	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	95
Operator ID:		Injection Vol:	40.00 ul

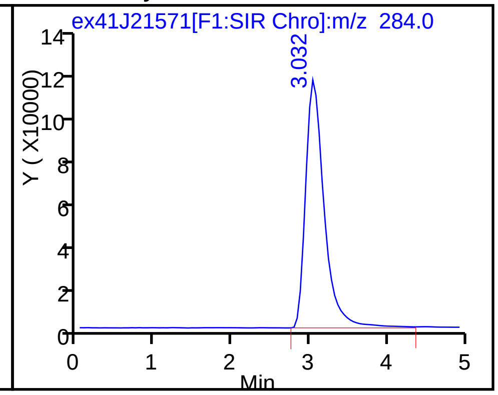
2 HMX (ND)



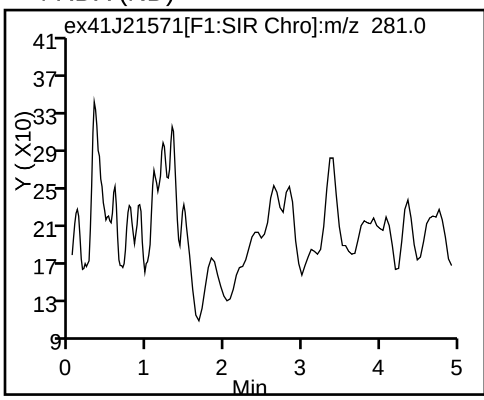
* 1 HMX-13C4



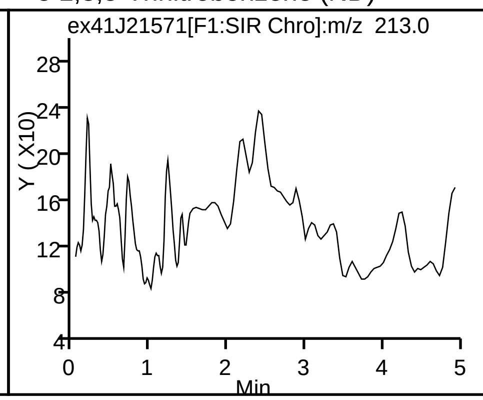
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



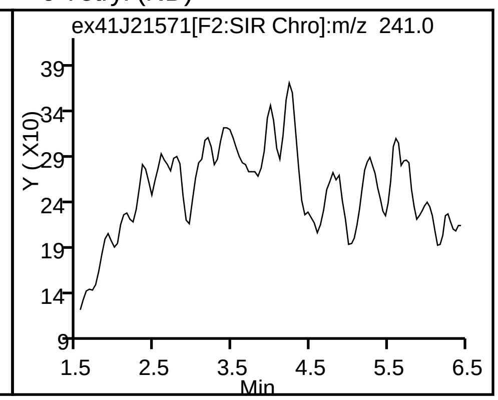
4 RDX (ND)



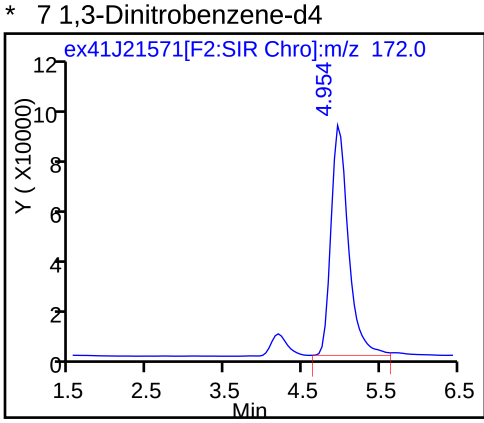
5 1,3,5-Trinitrobenzene (ND)



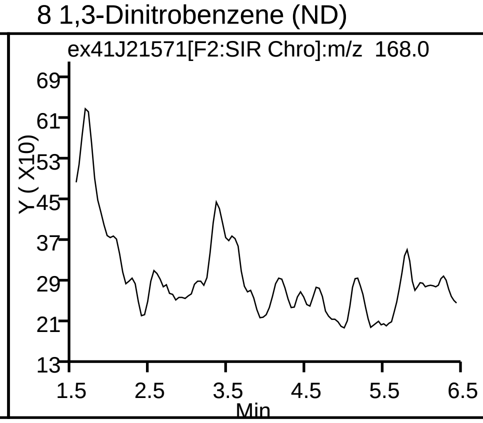
6 Tetryl (ND)



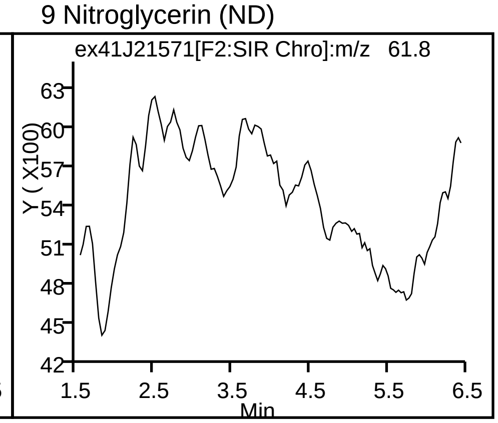
* 7 1,3-Dinitrobenzene-d4



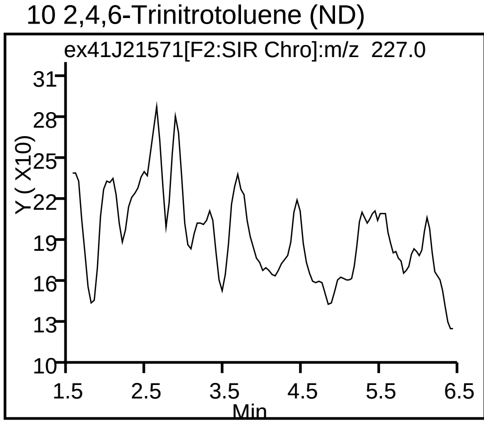
8 1,3-Dinitrobenzene (ND)



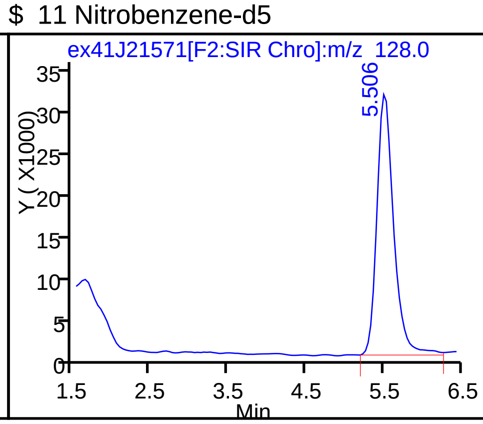
9 Nitroglycerin (ND)



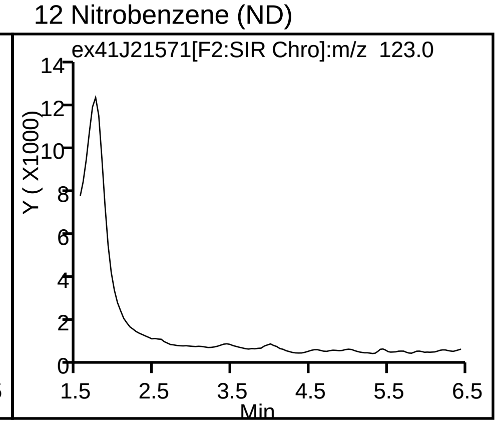
10 2,4,6-Trinitrotoluene (ND)



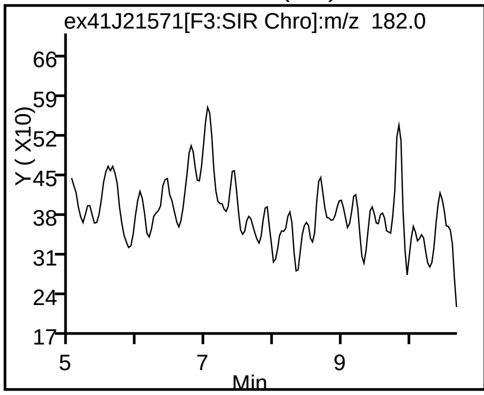
$ 11 Nitrobenzene-d5



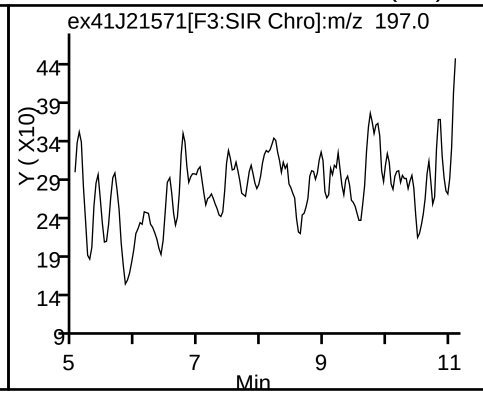
12 Nitrobenzene (ND)



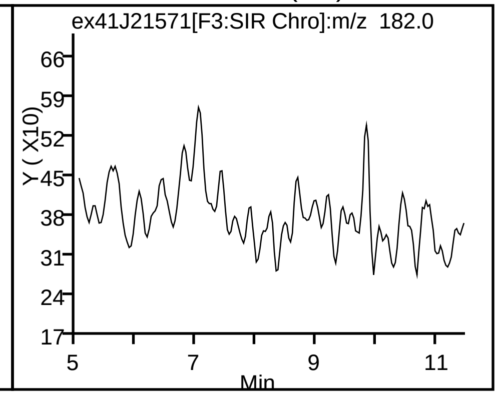
13 3,4-Dinitrotoluene (ND)



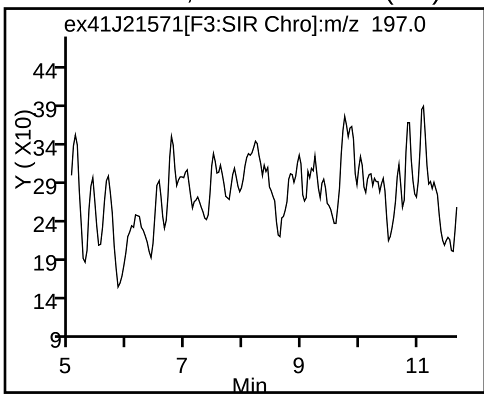
14 4-Amino-2,6-dinitrotoluene (ND)



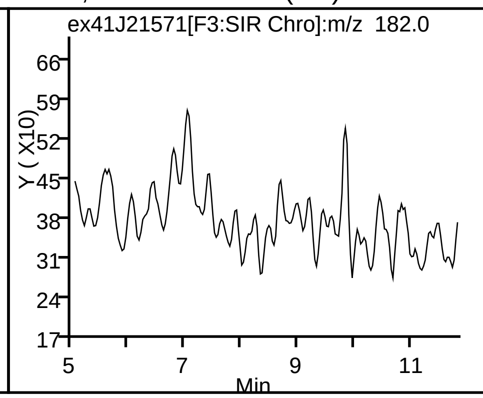
15 2,3-Dinitrotoluene (ND)



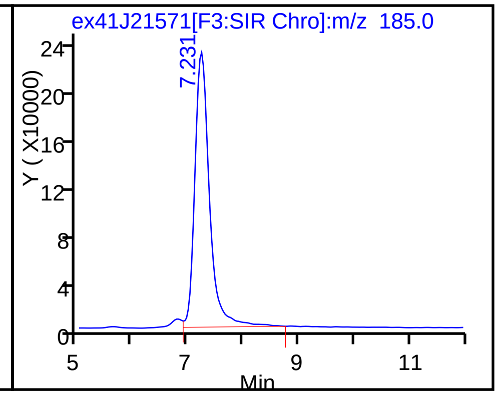
16 2-Amino-4,6-dinitrotoluene (ND)



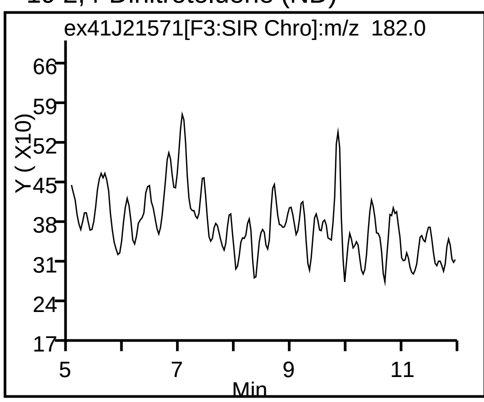
17 2,6-Dinitrotoluene (ND)



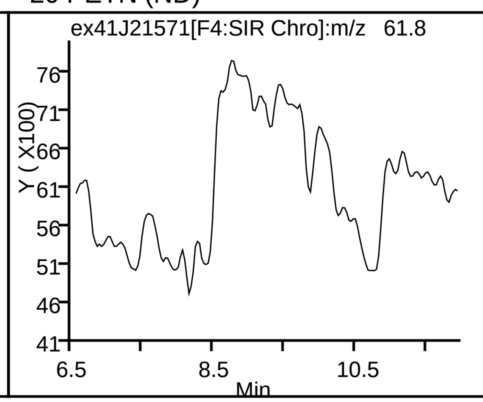
* 18 2,4-dinitrotoluene-d3



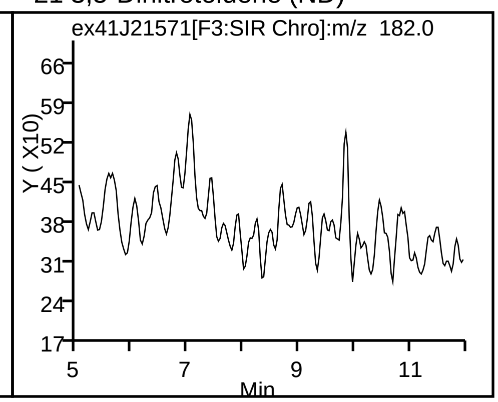
19 2,4-Dinitrotoluene (ND)



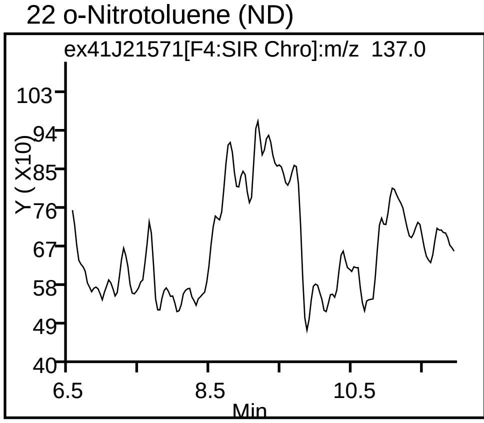
20 PETN (ND)



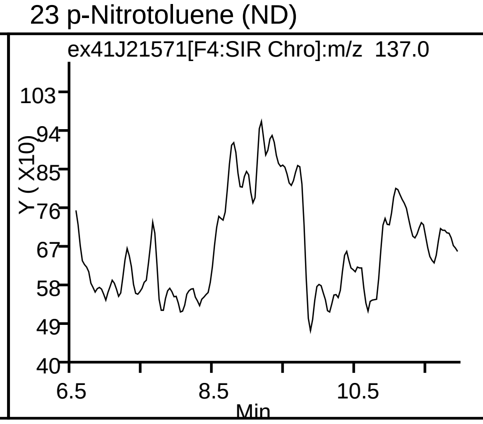
21 3,5-Dinitrotoluene (ND)



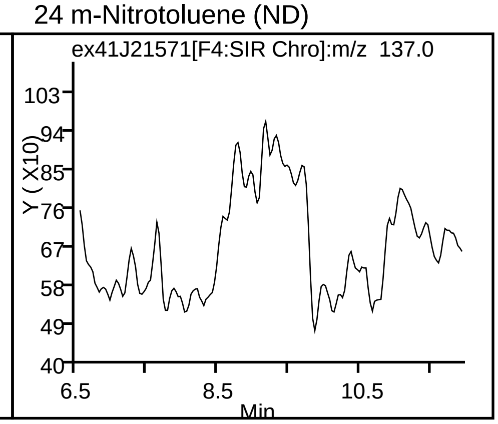
22 o-Nitrotoluene (ND)



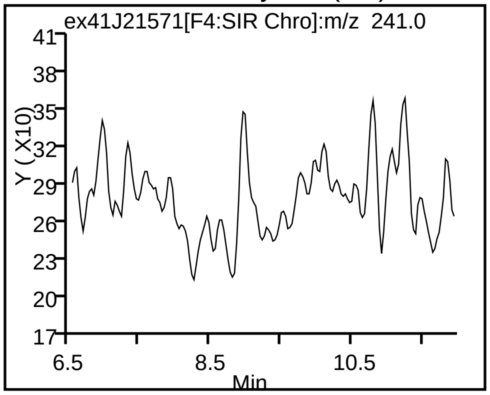
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG05 SB060   Lab Sample ID: 280-21683-42

Matrix: Solid   Lab File ID: ex41J21572.d

Analysis Method: 8321B   Date Collected: 10/15/2011 13:28

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.30(g)   Date Analyzed: 11/01/2011 14:00

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21572.d		
Lims ID:	280-21683-A-42-C	Client ID:	SB060
Inject. Date:	01-Nov-2011 14:00:11	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-42-C 280-0002689-096		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	38
Lims Batch ID:	94192	Lims Sample ID:	96
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:21	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 02-Nov-2011 06:38:14

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									1
1	355.0		2.062							
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		656642	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2213337	250.0			
	4 RDX									1
1	281.0		3.032							
	5 1,3,5-Trinitrobenzene									1
1	213.0		3.759							
	6 Tetryl									1
2	241.0		4.469							
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.994	4.954	0.040		1397241	258.7			
	8 1,3-Dinitrobenzene									1
2	168.0		5.034							
	9 Nitroglycerin									
2	61.8		5.034							
	10 2,4,6-Trinitrotoluene									1
2	227.0		5.438							
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.102	525459	76.1			
	12 Nitrobenzene									1
2	123.0		5.607							
	13 3,4-Dinitrotoluene									1
3	182.0		5.684							
	14 4-Amino-2,6-dinitrotoluene									1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15	2,3-Dinitrotoluene									1
3	182.0		6.492							
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.837							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.231	0.000		3922253	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									1
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									1
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

QC Flag Legend

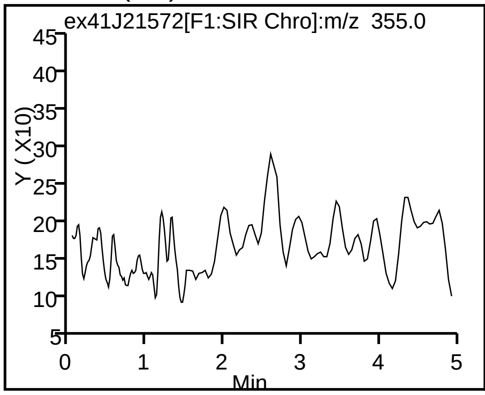
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:41:25 Chrom Revision: 1.2 13-Jul-2011 10:43:06

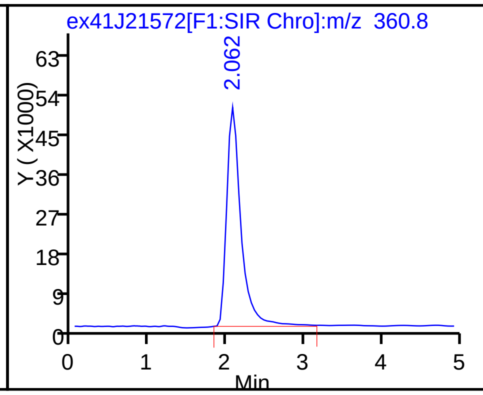
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21572.d

Injection Date:	01-Nov-2011 14:00:11	Limit Group:	LC - 8321A Expl
Client ID:	SB060	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	96
Operator ID:		Injection Vol:	40.00 ul

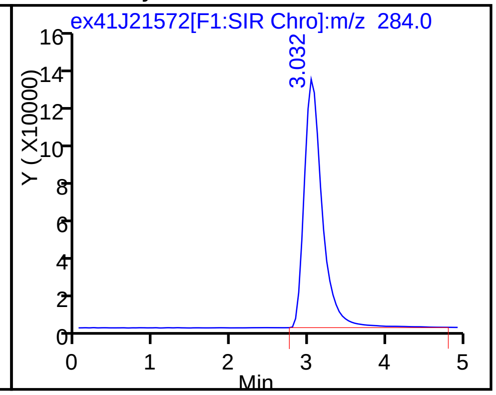
2 HMX (ND)



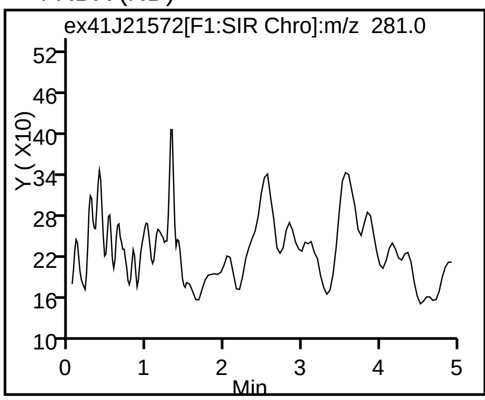
* 1 HMX-13C4



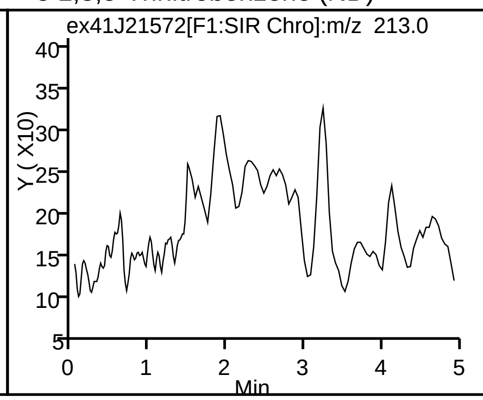
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



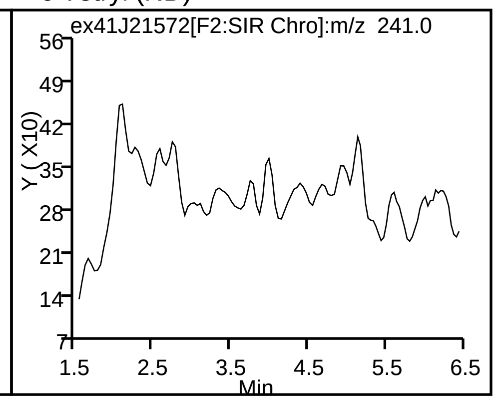
4 RDX (ND)



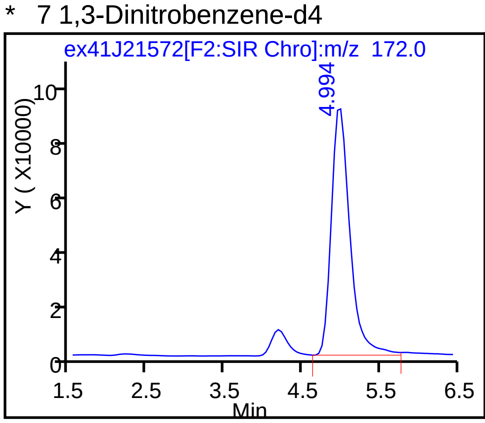
5 1,3,5-Trinitrobenzene (ND)



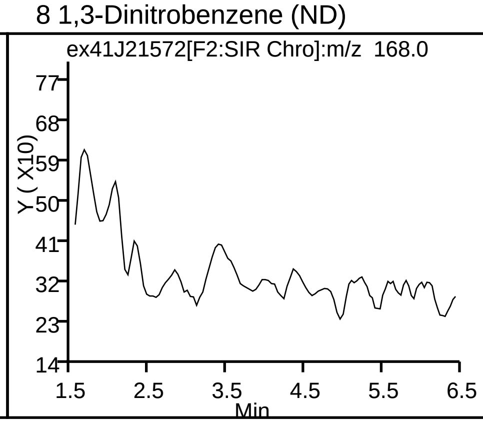
6 Tetryl (ND)



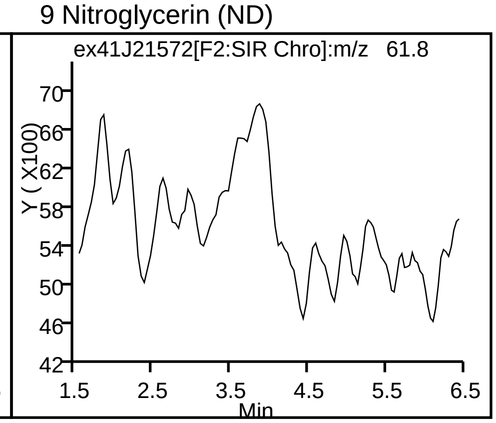
* 7 1,3-Dinitrobenzene-d4



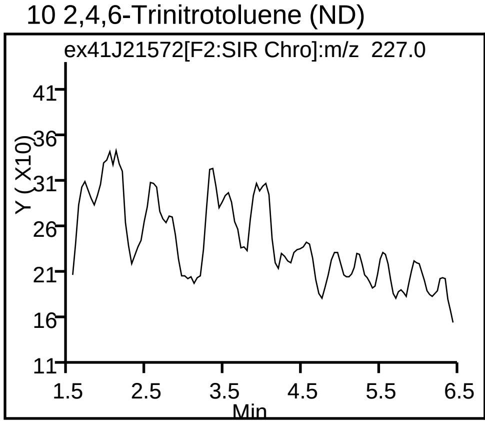
8 1,3-Dinitrobenzene (ND)



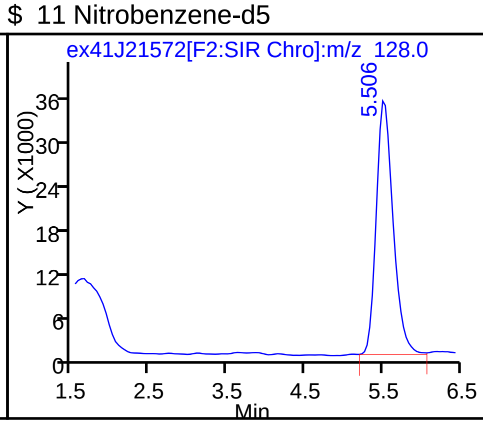
9 Nitroglycerin (ND)



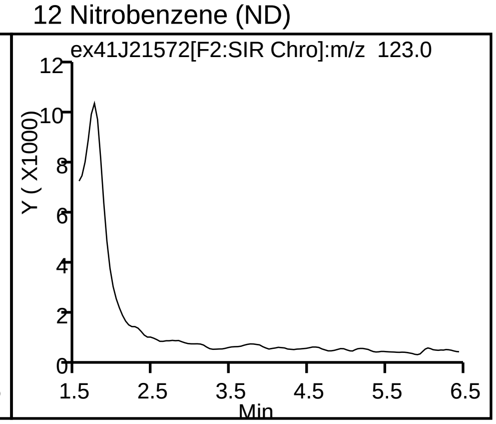
10 2,4,6-Trinitrotoluene (ND)



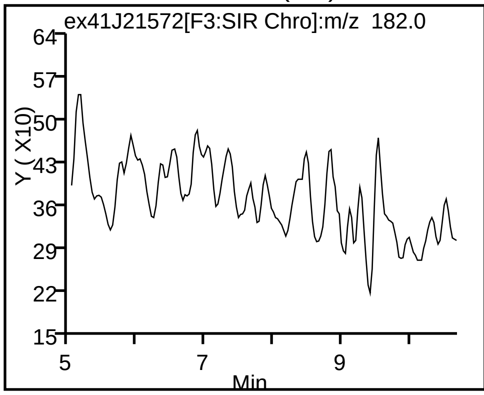
$ 11 Nitrobenzene-d5



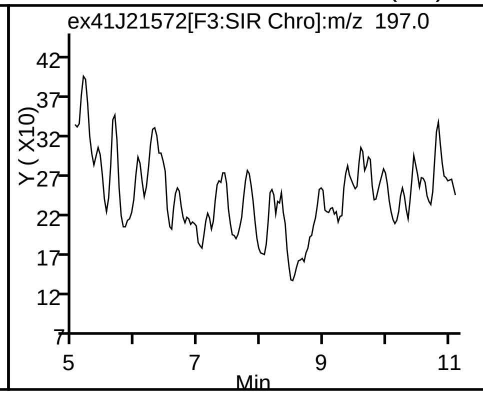
12 Nitrobenzene (ND)



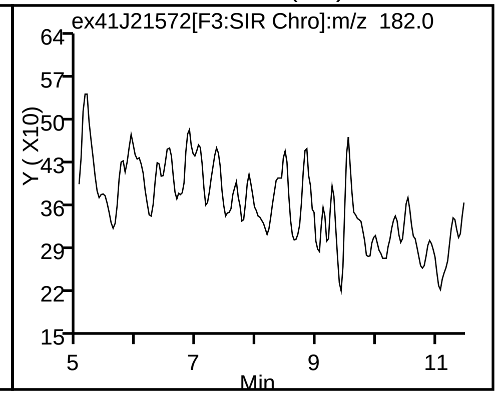
13 3,4-Dinitrotoluene (ND)



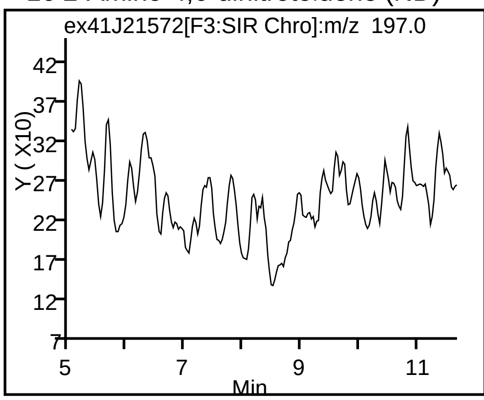
14 4-Amino-2,6-dinitrotoluene (ND)



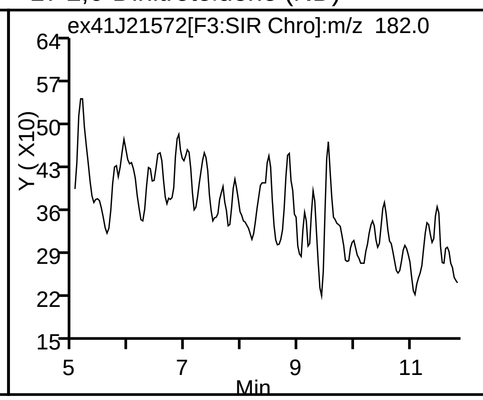
15 2,3-Dinitrotoluene (ND)



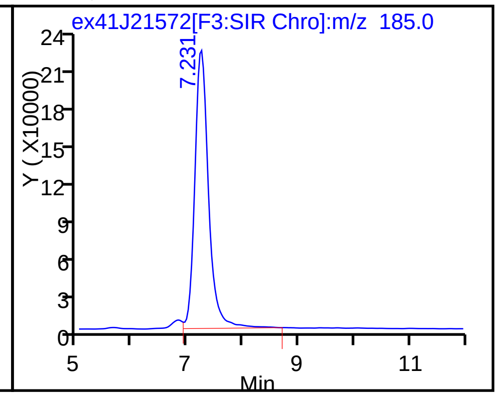
16 2-Amino-4,6-dinitrotoluene (ND)



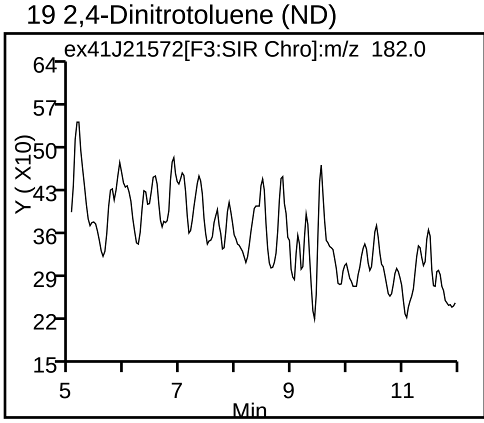
17 2,6-Dinitrotoluene (ND)



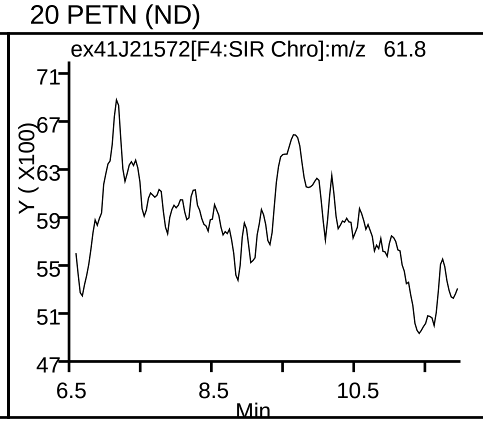
* 18 2,4-dinitrotoluene-d3



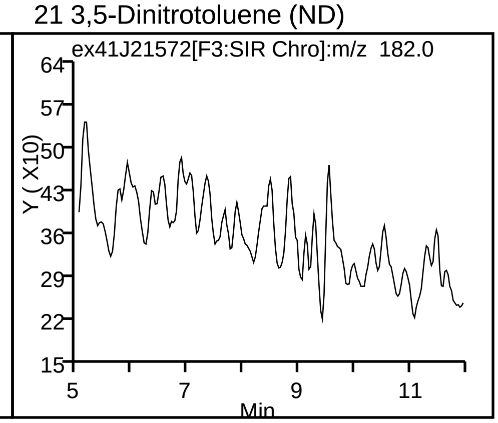
19 2,4-Dinitrotoluene (ND)



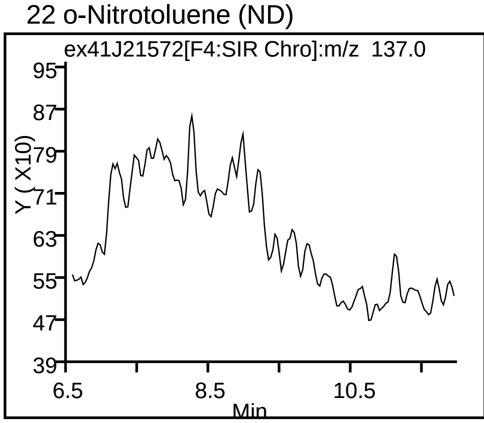
20 PETN (ND)



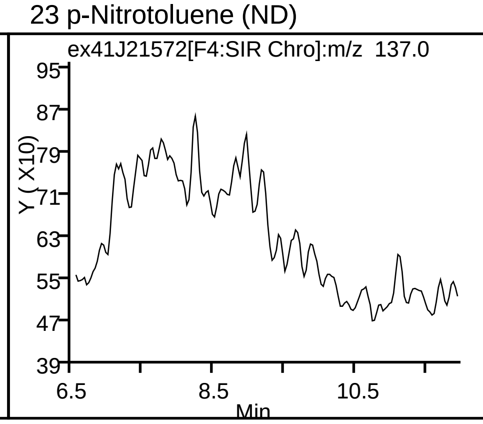
21 3,5-Dinitrotoluene (ND)



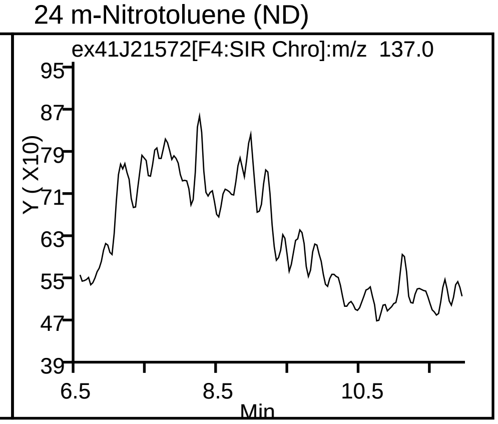
22 o-Nitrotoluene (ND)



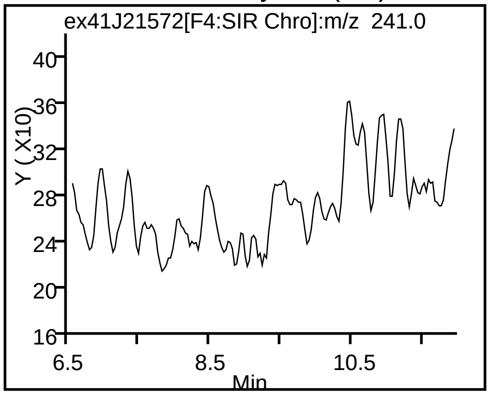
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG05 SB061   Lab Sample ID: 280-21683-43

Matrix: Solid   Lab File ID: ex41J21573.d

Analysis Method: 8321B   Date Collected: 10/15/2011 13:30

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.90(g)   Date Analyzed: 11/01/2011 14:14

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.092	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.011	U	0.092	0.011	0.0065
118-96-7	2,4,6-Trinitrotoluene	0.011	U	0.092	0.011	0.0046
121-14-2	2,4-Dinitrotoluene	0.011	U	0.092	0.011	0.0075
606-20-2	2,6-Dinitrotoluene	0.023	U	0.092	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.092	0.023	0.011
88-72-2	2-Nitrotoluene	0.011	U	0.092	0.011	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.092	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.011	U	0.092	0.011	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.092	0.023	0.010
2691-41-0	HMX	0.011	U	0.092	0.011	0.0053
98-95-3	Nitrobenzene	0.011	U	0.092	0.011	0.0099
55-63-0	Nitroglycerin	0.011	U	0.092	0.011	0.0096
78-11-5	PETN	0.011	U	0.092	0.011	0.0047
121-82-4	RDX	0.011	U	0.092	0.011	0.0040
479-45-8	Tetryl	0.011	U	0.092	0.011	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21573.d		
Lims ID:	280-21683-A-43-C	Client ID:	SB061
Inject. Date:	01-Nov-2011 14:14:02	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-43-C 280-0002689-097		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	39
Lims Batch ID:	94192	Lims Sample ID:	97
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:21	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		662629	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1934439	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1446131	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										1
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	541606	75.8			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4405721	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

QC Flag Legend

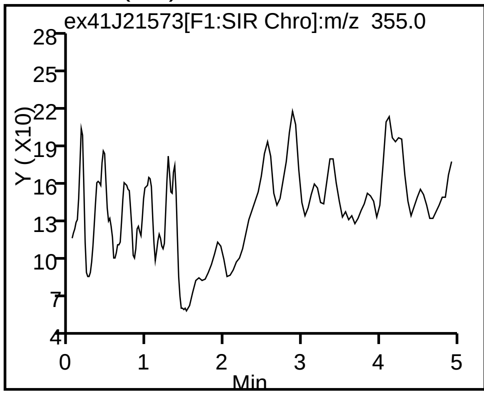
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:41:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06

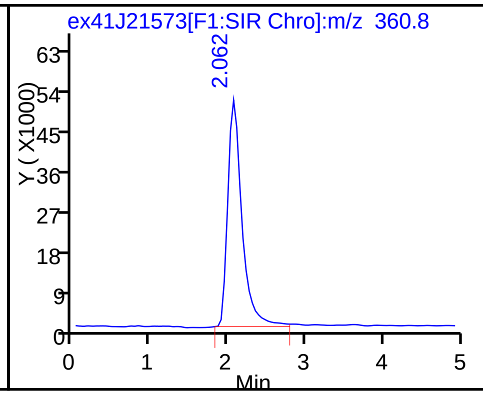
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21573.d

Injection Date:	01-Nov-2011 14:14:02	Limit Group:	LC - 8321A Expl
Client ID:	SB061	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	97
Operator ID:		Injection Vol:	40.00 ul

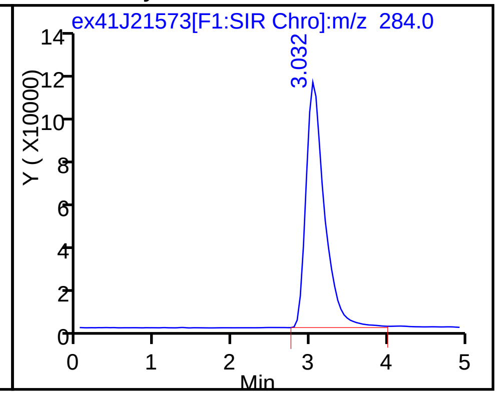
2 HMX (ND)



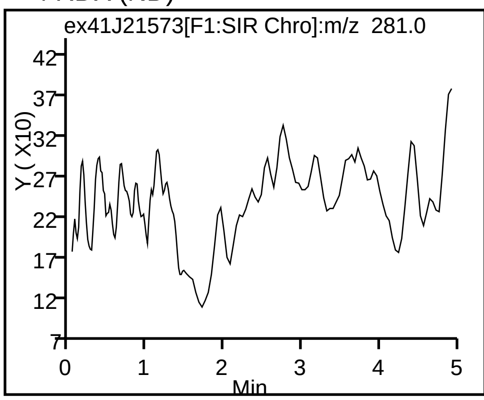
* 1 HMX-13C4



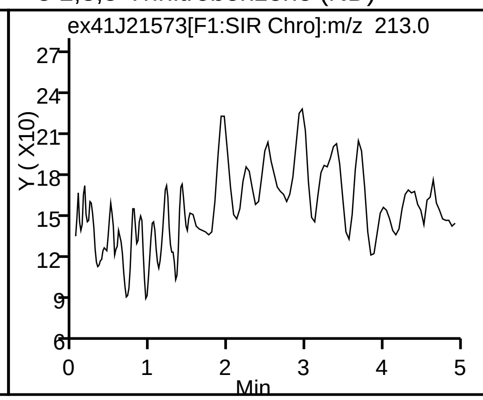
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



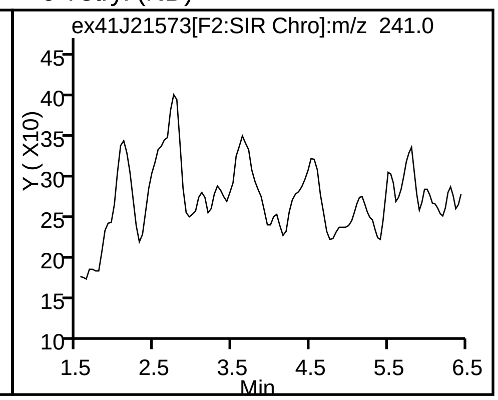
4 RDX (ND)



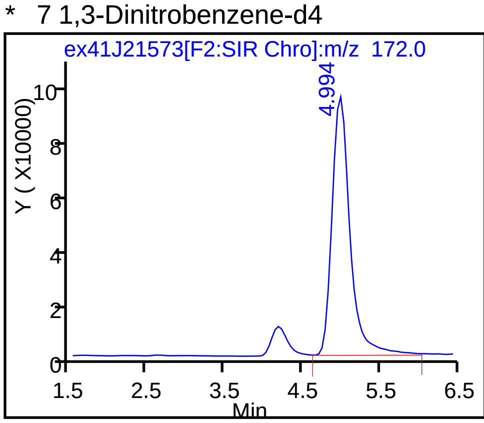
5 1,3,5-Trinitrobenzene (ND)



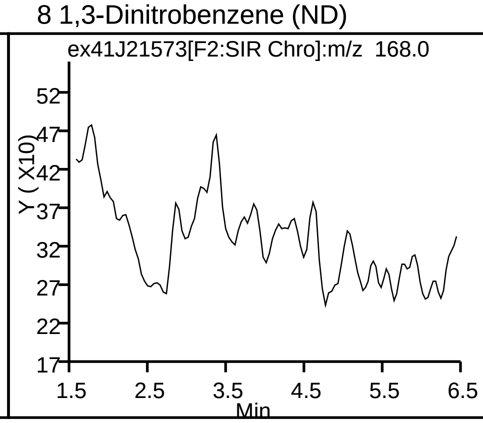
6 Tetryl (ND)



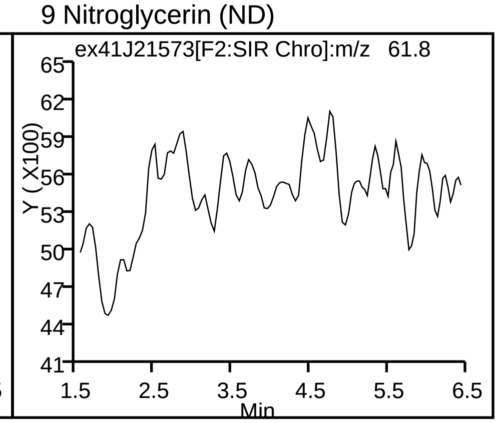
* 7 1,3-Dinitrobenzene-d4



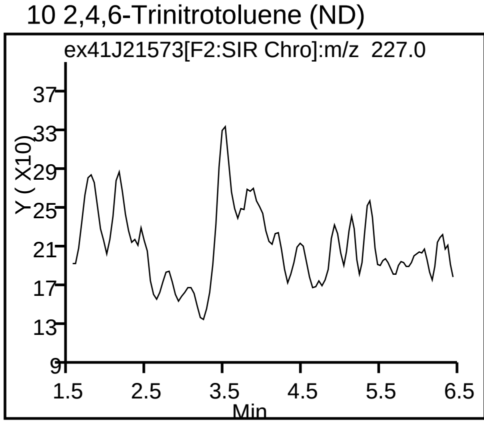
8 1,3-Dinitrobenzene (ND)



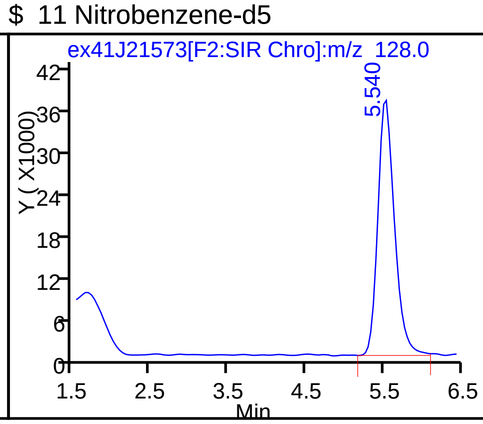
9 Nitroglycerin (ND)



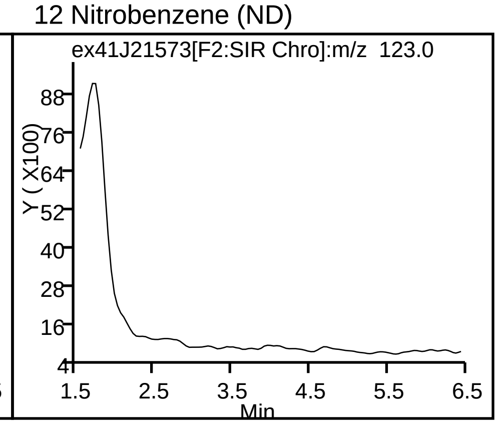
10 2,4,6-Trinitrotoluene (ND)



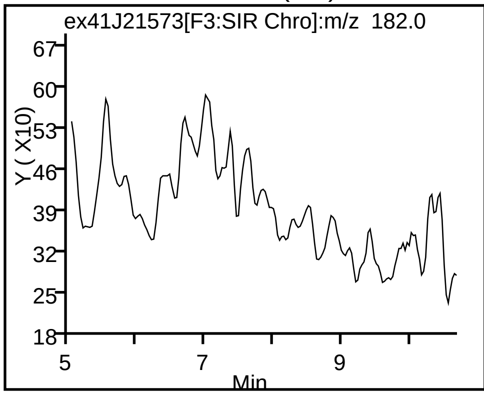
$ 11 Nitrobenzene-d5



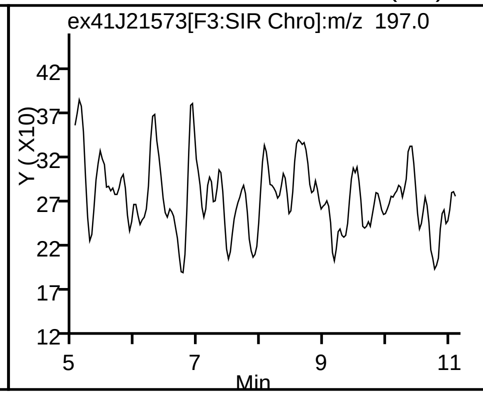
12 Nitrobenzene (ND)



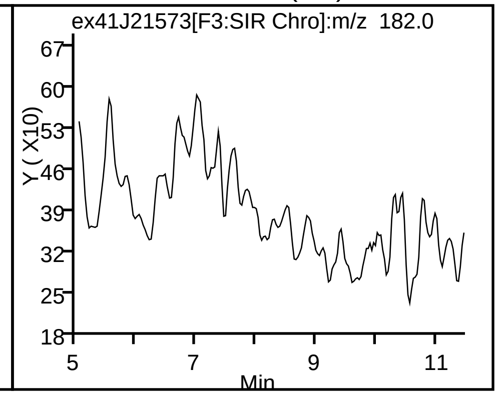
13 3,4-Dinitrotoluene (ND)



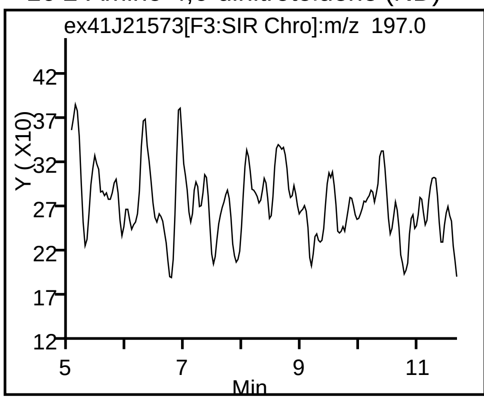
14 4-Amino-2,6-dinitrotoluene (ND)



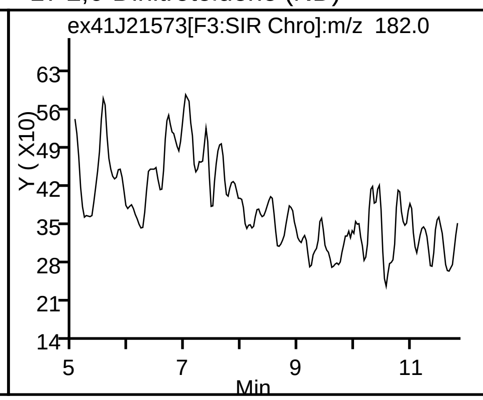
15 2,3-Dinitrotoluene (ND)



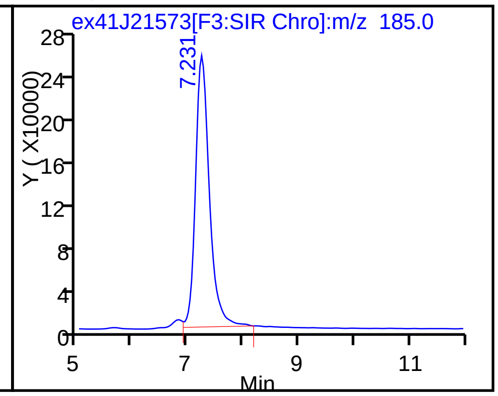
16 2-Amino-4,6-dinitrotoluene (ND)



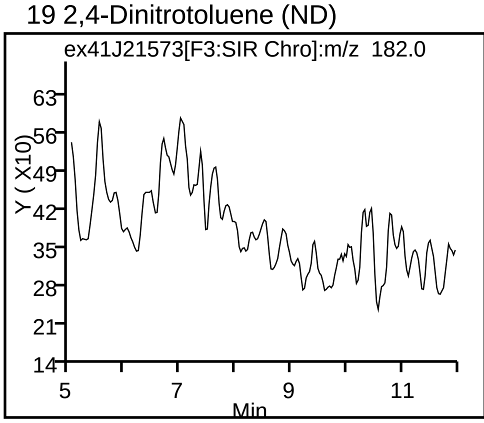
17 2,6-Dinitrotoluene (ND)



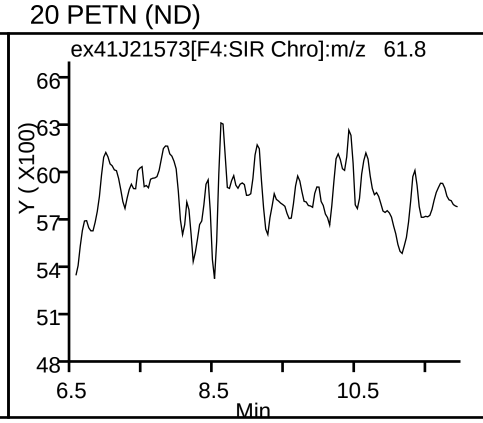
* 18 2,4-dinitrotoluene-d3



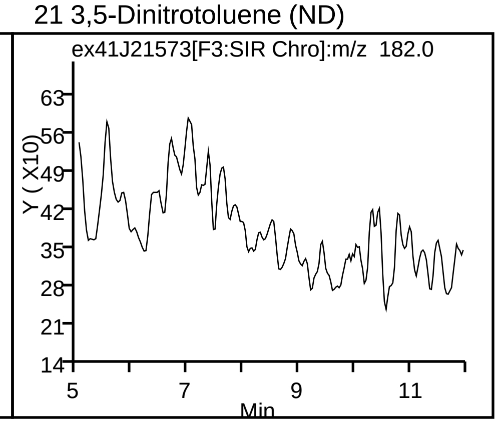
19 2,4-Dinitrotoluene (ND)



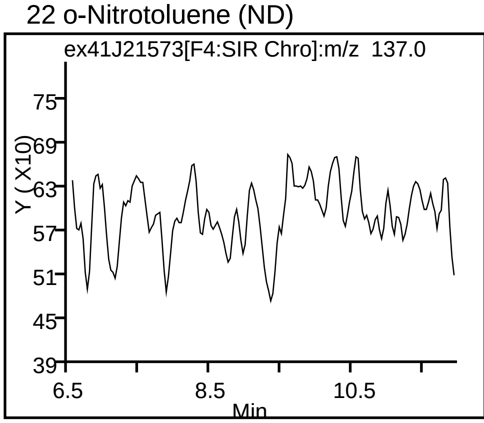
20 PETN (ND)



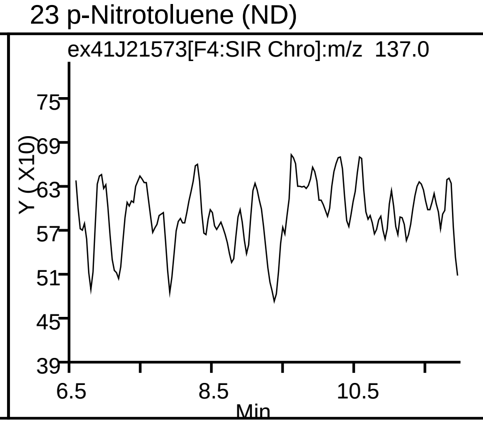
21 3,5-Dinitrotoluene (ND)



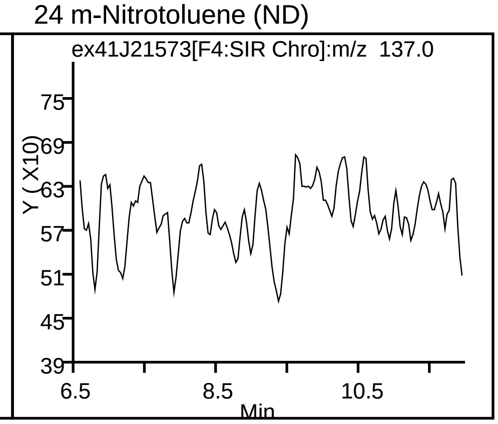
22 o-Nitrotoluene (ND)



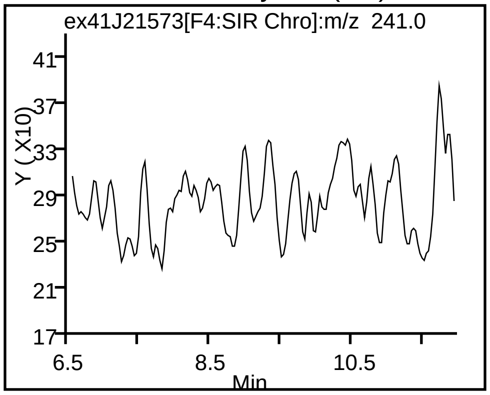
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver　　Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG04 SB058　　Lab Sample ID: 280-21683-44

Matrix: Solid　　Lab File ID: ex41J21574.d

Analysis Method: 8321B　　Date Collected: 10/15/2011 13:39

Extraction Method: 8330B　　Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.50(g)　　Date Analyzed: 11/01/2011 14:27

Con. Extract Vol.: 40(mL)　　Dilution Factor: 1

Injection Volume: 40(uL)　　GC Column: IonPac　　ID: 2(mm)

% Moisture:　　GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192　　Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21574.d		
Lims ID:	280-21683-A-44-C	Client ID:	SB058
Inject. Date:	01-Nov-2011 14:27:52	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-44-C 280-0002689-098		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	40
Lims Batch ID:	94192	Lims Sample ID:	98
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:21	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		569120	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1706475	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1391865	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										1
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	504206	73.3			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.837							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.231	0.000		4080591	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									1
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

QC Flag Legend

Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:41:27 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21574.d

Injection Date:	01-Nov-2011 14:27:52	Limit Group:	LC - 8321A Expl
Client ID:	SB058	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	98
Operator ID:		Injection Vol:	40.00 ul

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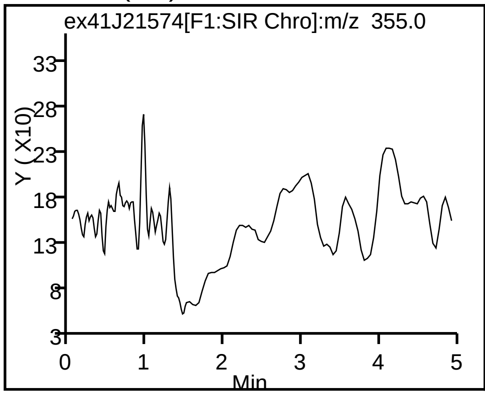
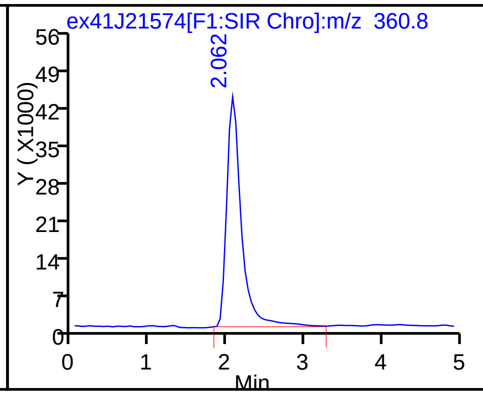
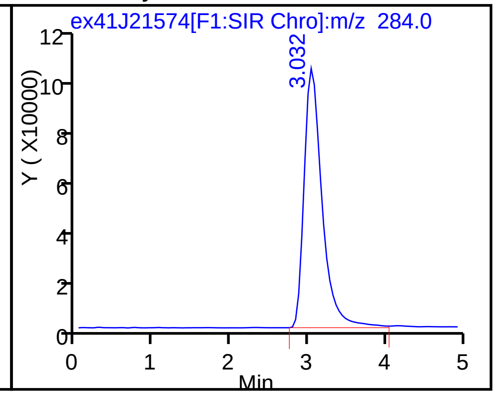


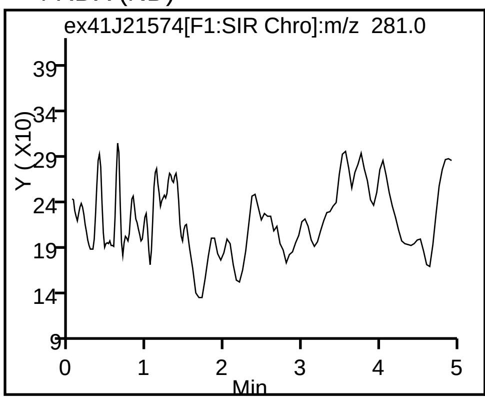
* 1 HMX-13C4



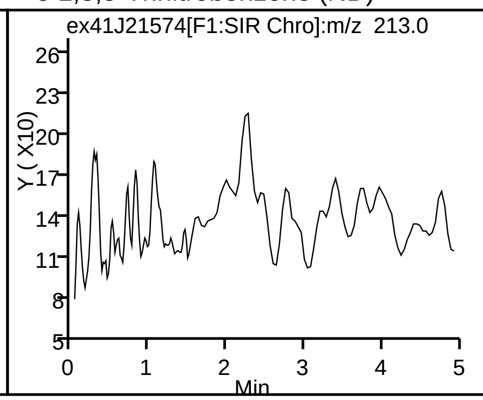
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



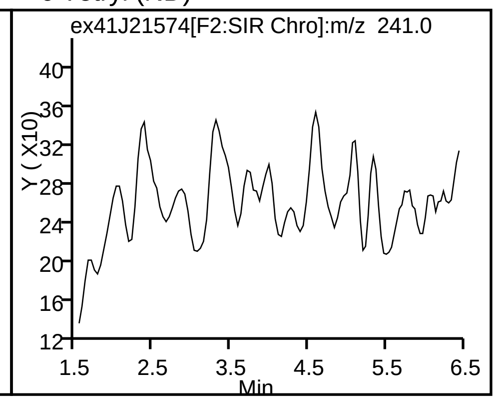
4 RDX (ND)



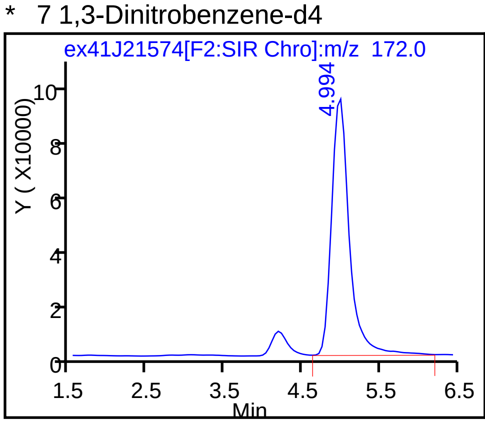
5 1,3,5-Trinitrobenzene (ND)



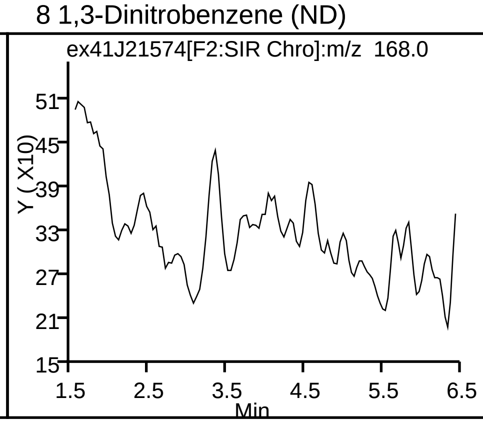
6 Tetryl (ND)



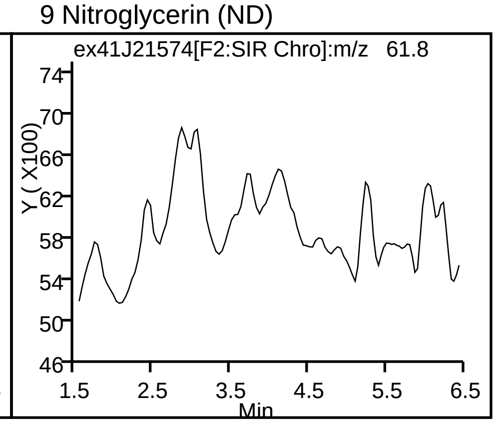
* 7 1,3-Dinitrobenzene-d4



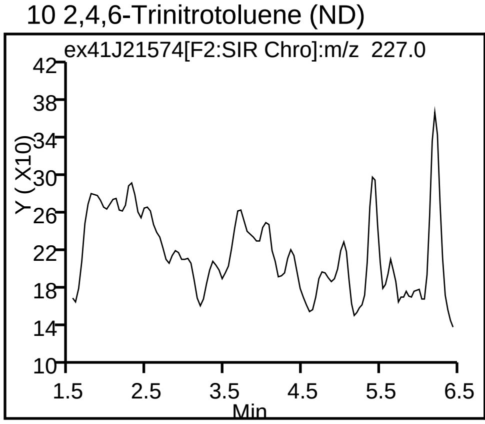
8 1,3-Dinitrobenzene (ND)



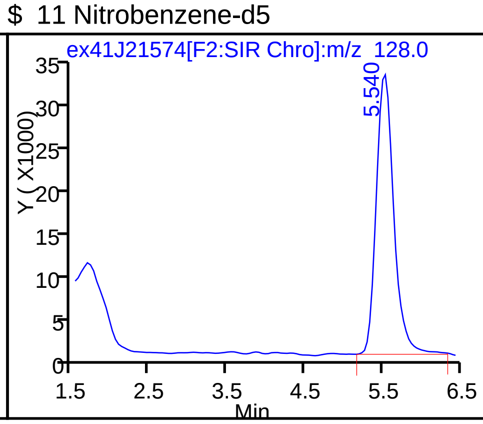
9 Nitroglycerin (ND)



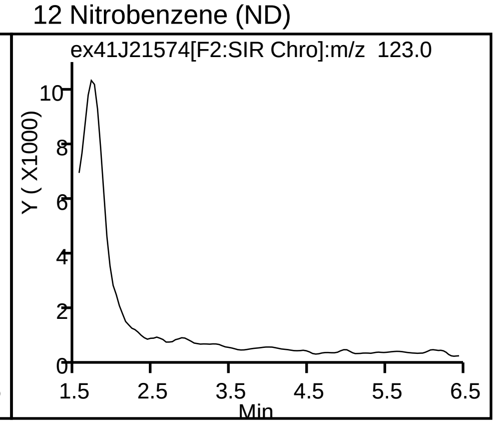
10 2,4,6-Trinitrotoluene (ND)



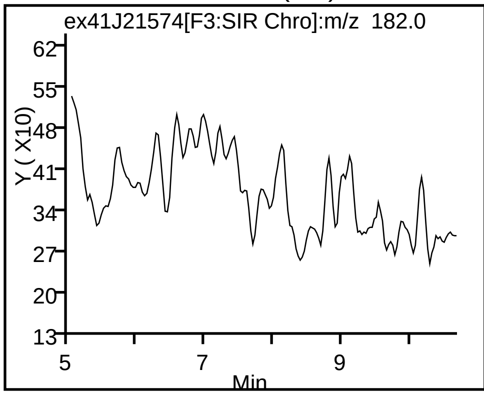
$ 11 Nitrobenzene-d5



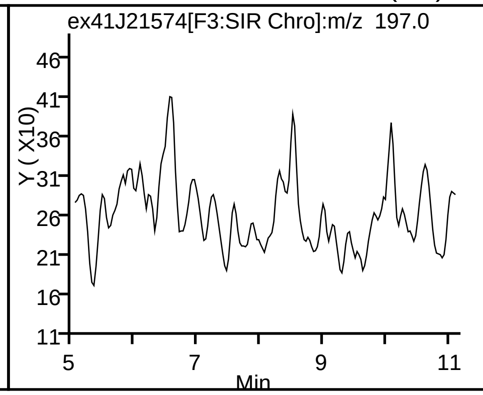
12 Nitrobenzene (ND)



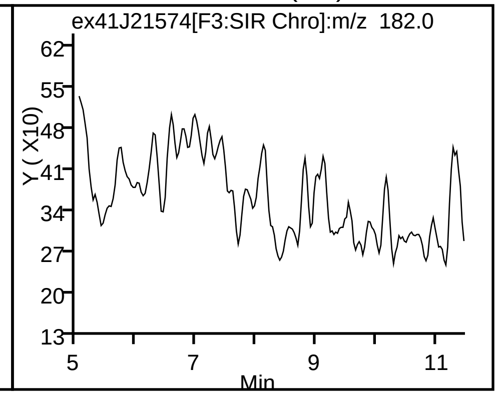
13 3,4-Dinitrotoluene (ND)



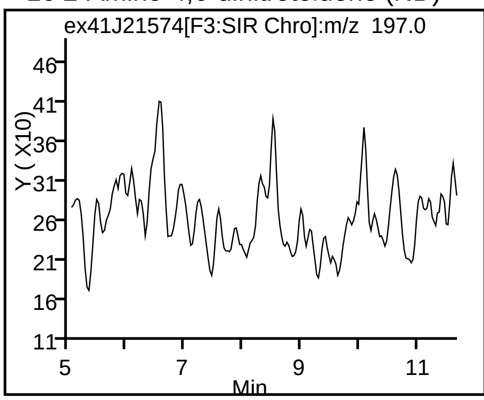
14 4-Amino-2,6-dinitrotoluene (ND)



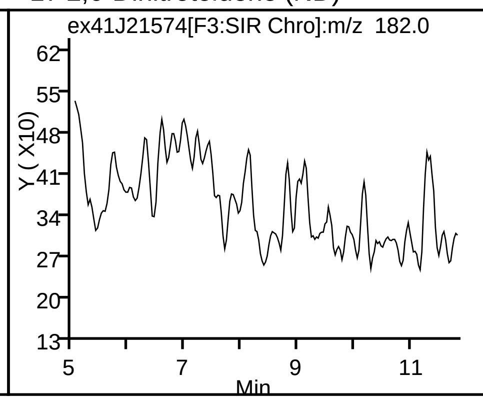
15 2,3-Dinitrotoluene (ND)



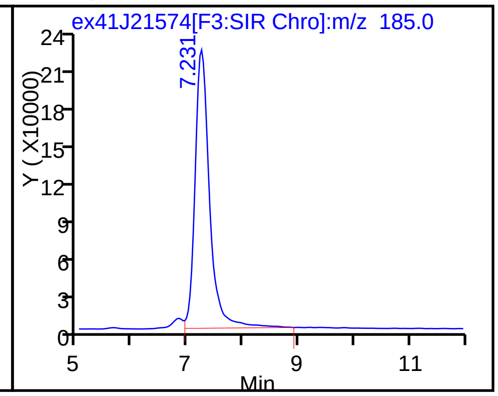
16 2-Amino-4,6-dinitrotoluene (ND)



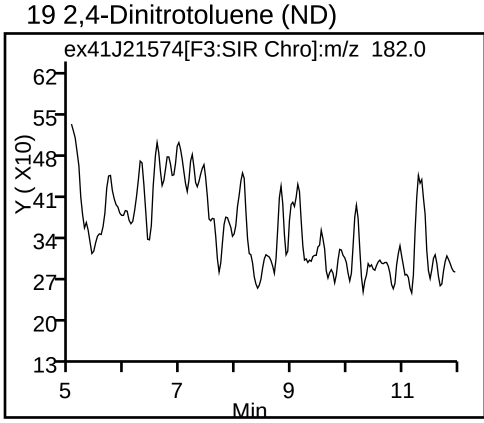
17 2,6-Dinitrotoluene (ND)



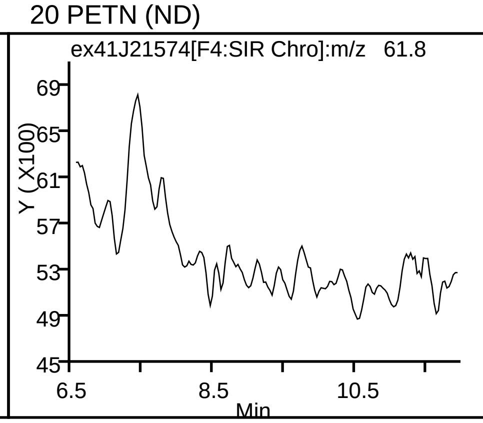
* 18 2,4-dinitrotoluene-d3



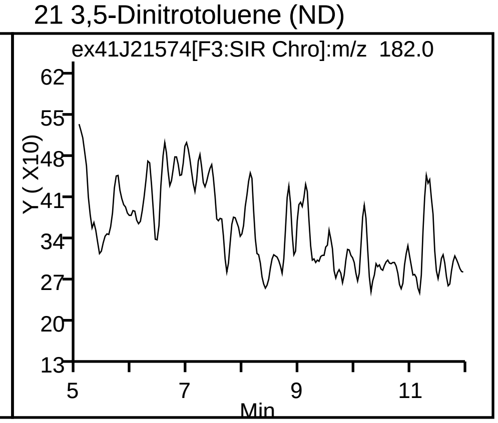
19 2,4-Dinitrotoluene (ND)



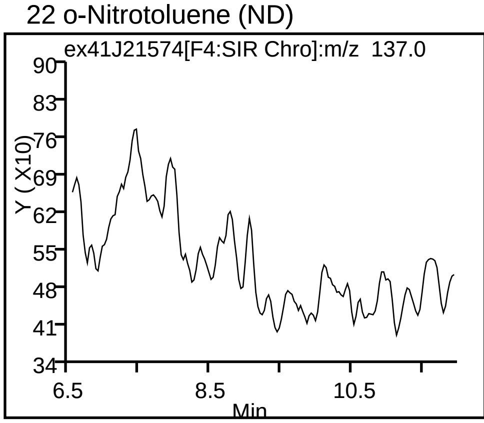
20 PETN (ND)



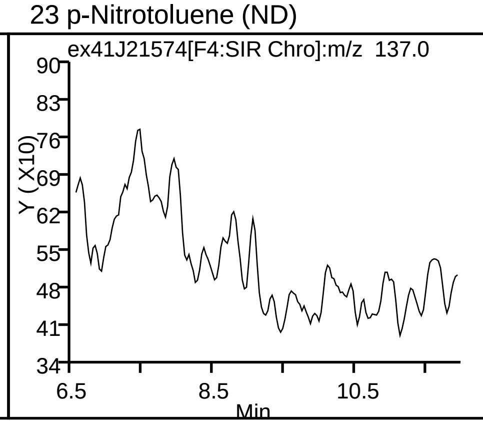
21 3,5-Dinitrotoluene (ND)



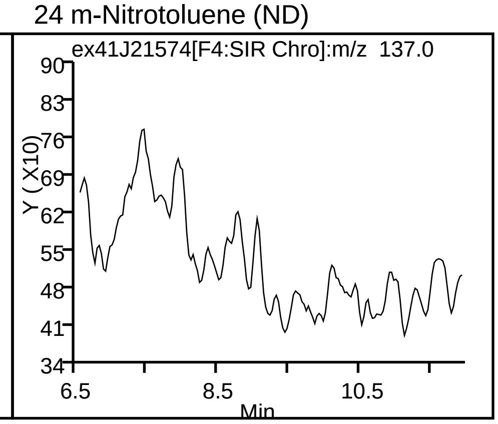
22 o-Nitrotoluene (ND)



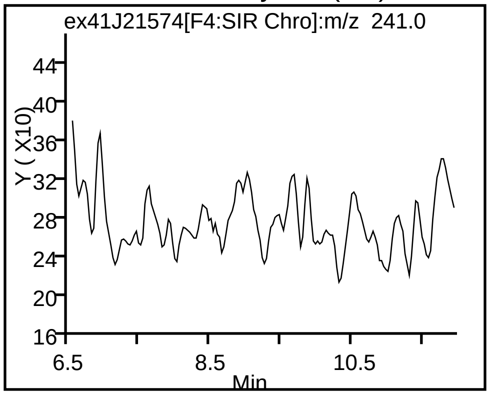
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG04 SB059   Lab Sample ID: 280-21683-45

Matrix: Solid   Lab File ID: ex41J21575.d

Analysis Method: 8321B   Date Collected: 10/15/2011 13:41

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.02(g)   Date Analyzed: 11/01/2011 14:41

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0082
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	72		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21575.d		
Lims ID:	280-21683-B-45-B	Client ID:	SB059
Inject. Date:	01-Nov-2011 14:41:26	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-45-B 280-0002689-099		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	41
Lims Batch ID:	94192	Lims Sample ID:	99
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:21	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:38:43

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									1
1	355.0		2.062							
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		606174	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		1895767	250.0			
	4 RDX									1
1	281.0		3.032							
	5 1,3,5-Trinitrobenzene									1
1	213.0		3.759							
	6 Tetryl									1
2	241.0		4.469							
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.994	4.954	0.040		1328317	258.7			
	8 1,3-Dinitrobenzene									1
2	168.0		5.034							
	9 Nitroglycerin									
2	61.8		5.034							
	10 2,4,6-Trinitrotoluene									1
2	227.0		5.438							
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.102	469151	71.4			
	12 Nitrobenzene									1
2	123.0		5.607							
	13 3,4-Dinitrotoluene									1
3	182.0		5.684							
	14 4-Amino-2,6-dinitrotoluene									1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3953460	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										
4	137.0		8.254							
23 p-Nitrotoluene										
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

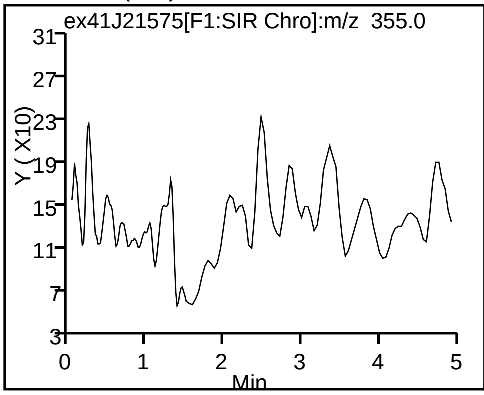
QC Flag Legend

Processing Flags
1 - Missing Peaks

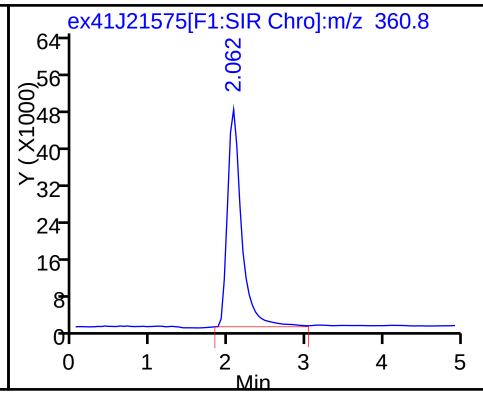
Report Date: 02-Nov-2011 06:41:27 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21575.d

Injection Date:	01-Nov-2011 14:41:26	Limit Group:	LC - 8321A Expl
Client ID:	SB059	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	99
Operator ID:		Injection Vol:	40.00 ul

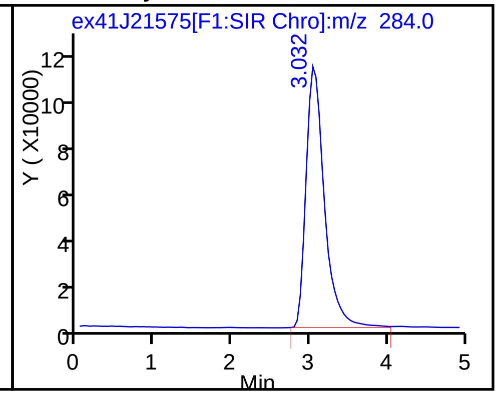
2 HMX (ND)



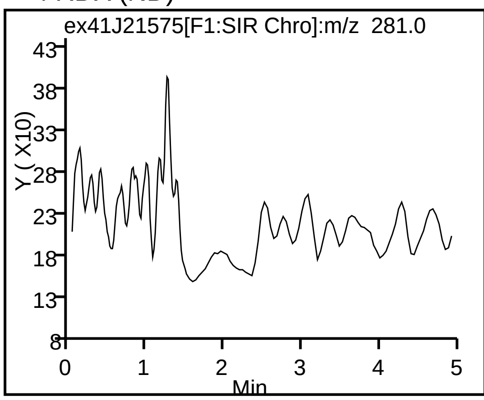
* 1 HMX-13C4



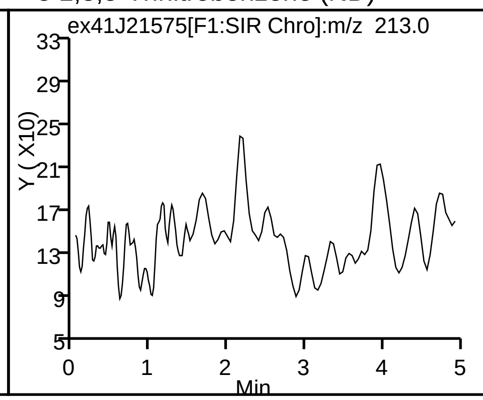
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



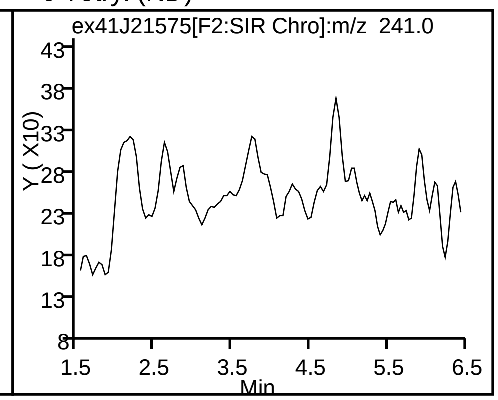
4 RDX (ND)



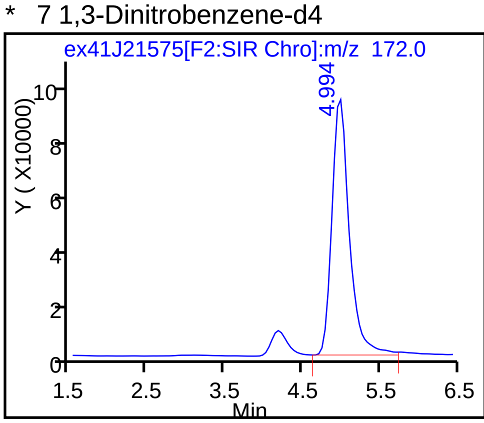
5 1,3,5-Trinitrobenzene (ND)



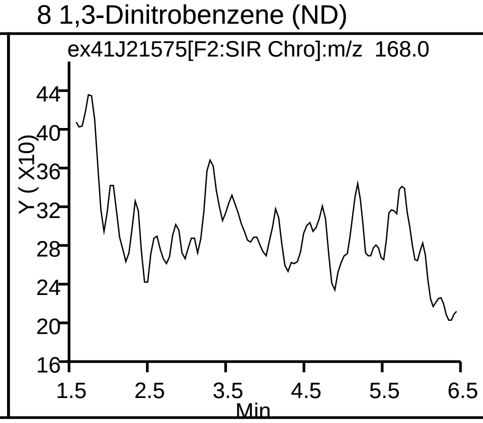
6 Tetryl (ND)



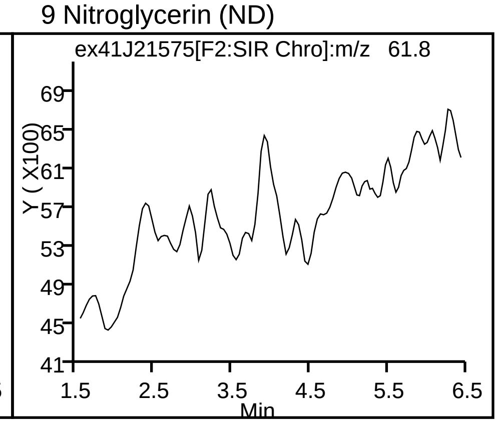
* 7 1,3-Dinitrobenzene-d4



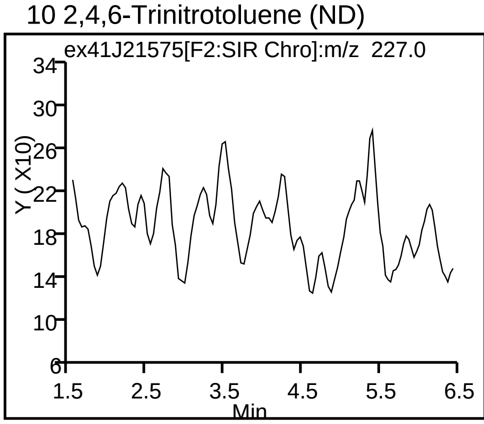
8 1,3-Dinitrobenzene (ND)



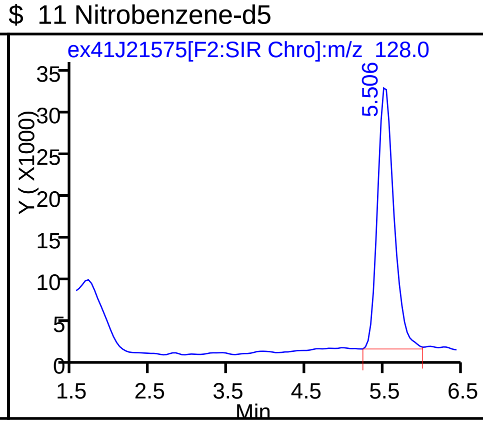
9 Nitroglycerin (ND)



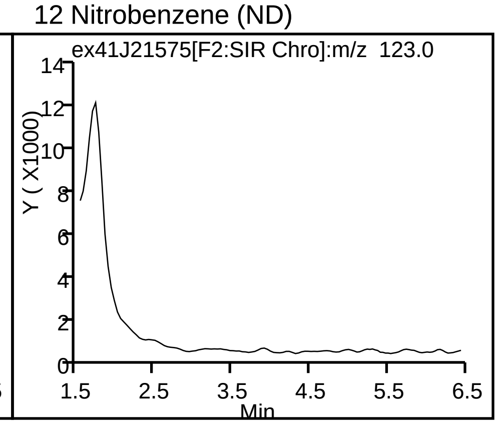
10 2,4,6-Trinitrotoluene (ND)



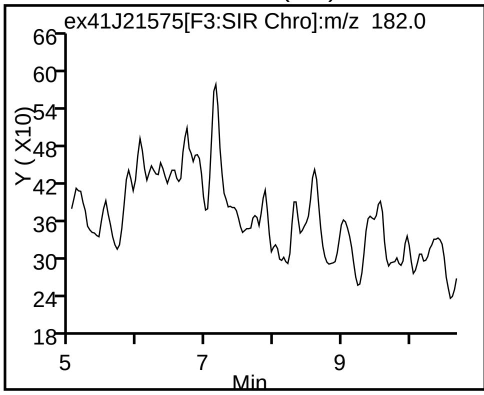
$ 11 Nitrobenzene-d5



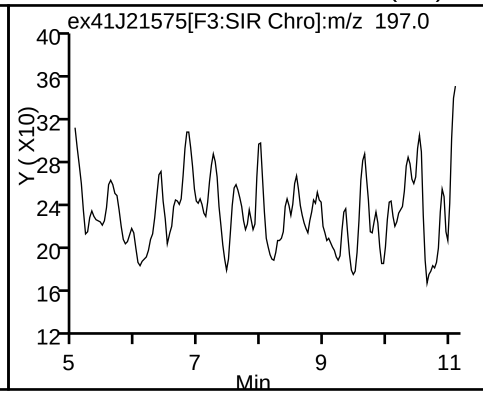
12 Nitrobenzene (ND)



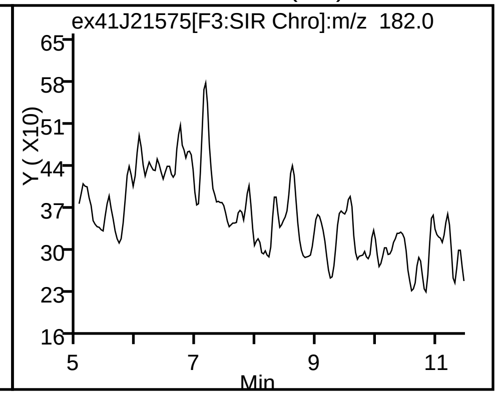
13 3,4-Dinitrotoluene (ND)



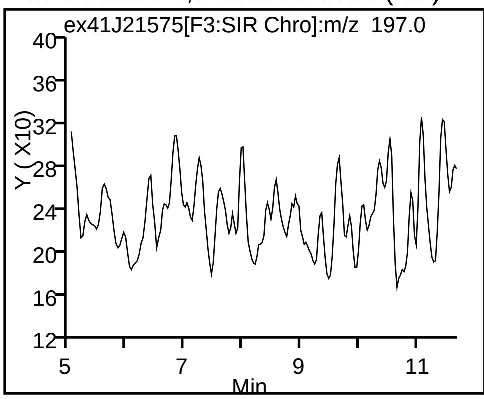
14 4-Amino-2,6-dinitrotoluene (ND)



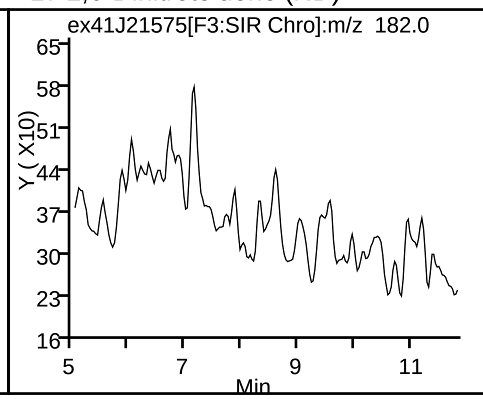
15 2,3-Dinitrotoluene (ND)



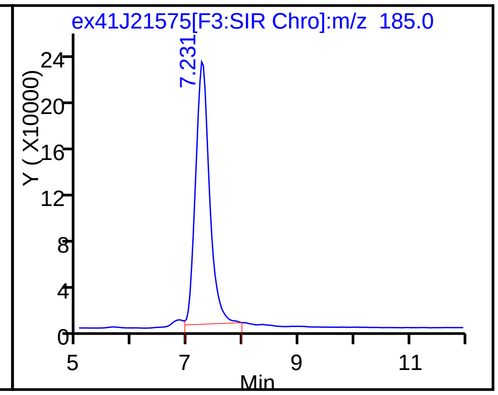
16 2-Amino-4,6-dinitrotoluene (ND)



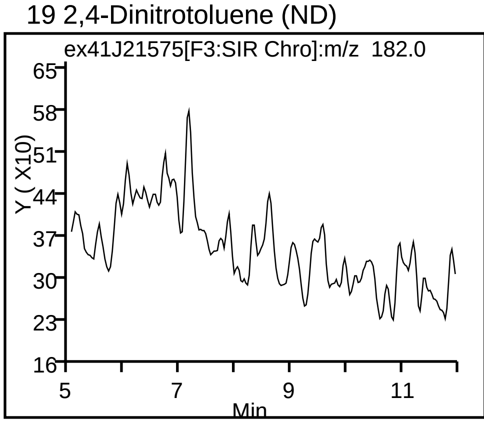
17 2,6-Dinitrotoluene (ND)



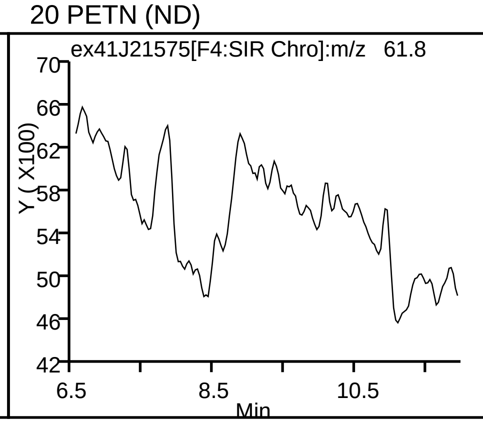
* 18 2,4-dinitrotoluene-d3



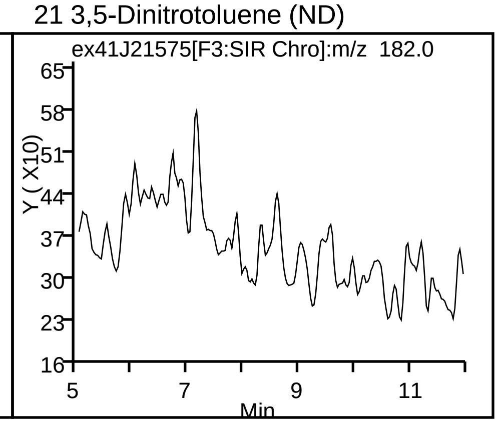
19 2,4-Dinitrotoluene (ND)



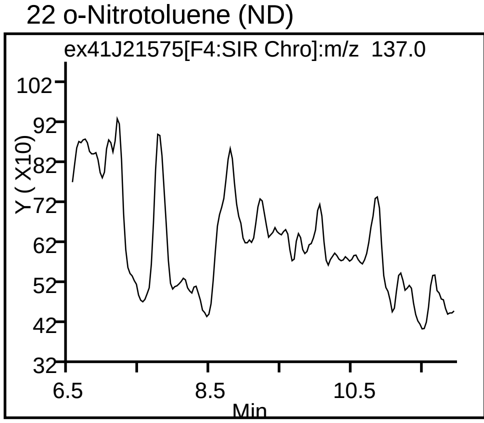
20 PETN (ND)



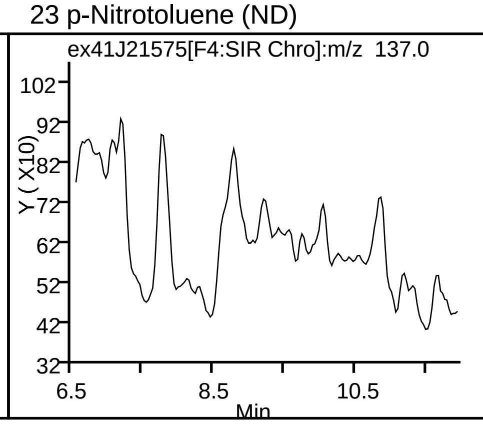
21 3,5-Dinitrotoluene (ND)



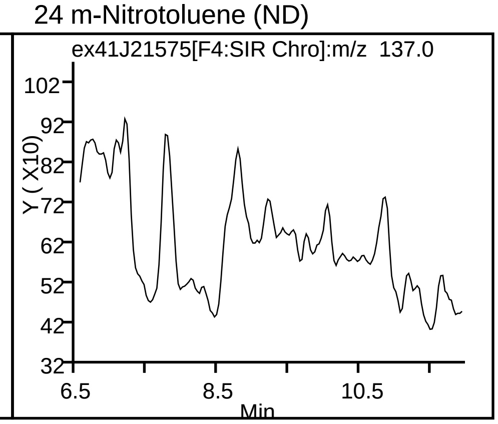
22 o-Nitrotoluene (ND)



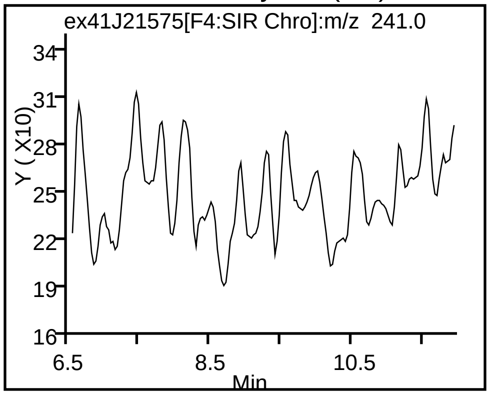
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG03 SB056 | Lab Sample ID: 280-21683-46

Matrix: Solid | Lab File ID: ex41J21576.d

Analysis Method: 8321B | Date Collected: 10/15/2011 13:51

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.13(g) | Date Analyzed: 11/01/2011 14:54

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21576.d		
Lims ID:	280-21683-B-46-B	Client ID:	SB056
Inject. Date:	01-Nov-2011 14:54:59	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-46-B 280-0002689-100		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	42
Lims Batch ID:	94192	Lims Sample ID:	100
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:21	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		571527	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1934481	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1376667	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										1
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	573712	84.4			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.837							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.231	0.000		4285161	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									1
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									1
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

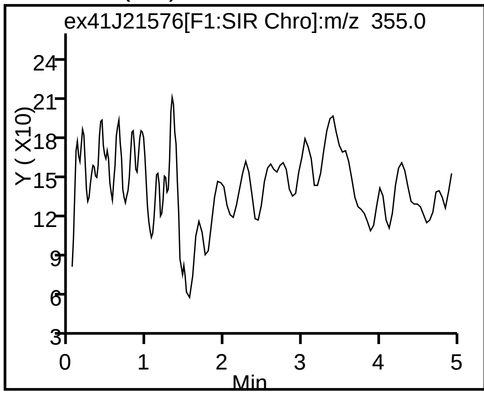
QC Flag Legend

Processing Flags
1 - Missing Peaks

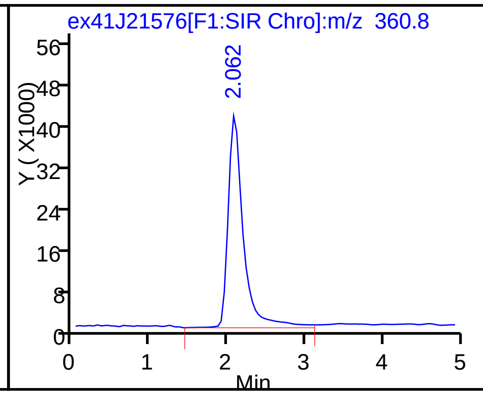
Report Date: 02-Nov-2011 06:41:28   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21576.d

Injection Date:	01-Nov-2011 14:54:59	Limit Group:	LC - 8321A Expl
Client ID:	SB056	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	100
Operator ID:		Injection Vol:	40.00 ul

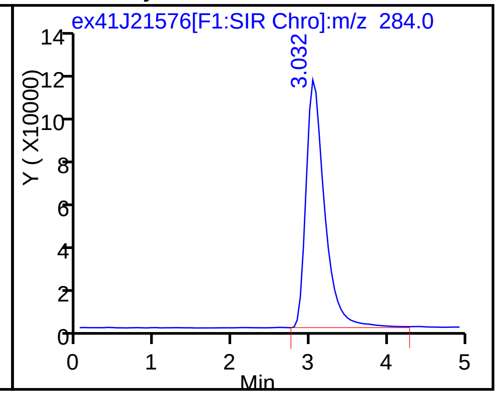
2 HMX (ND)



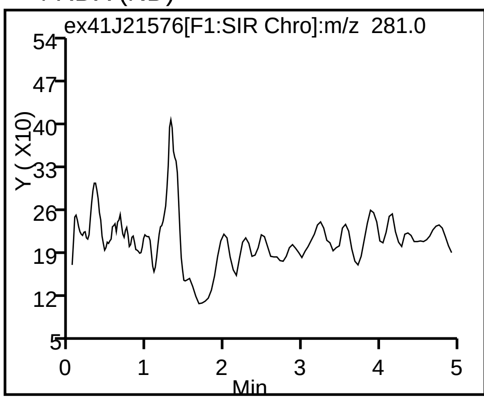
* 1 HMX-13C4



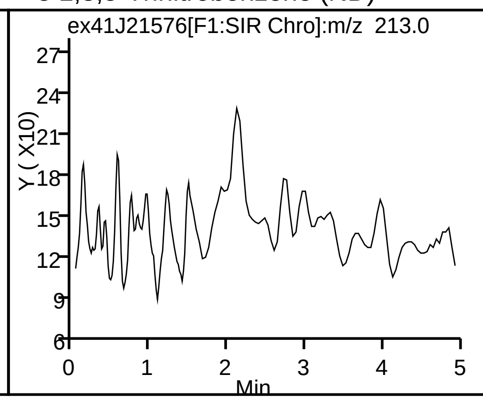
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



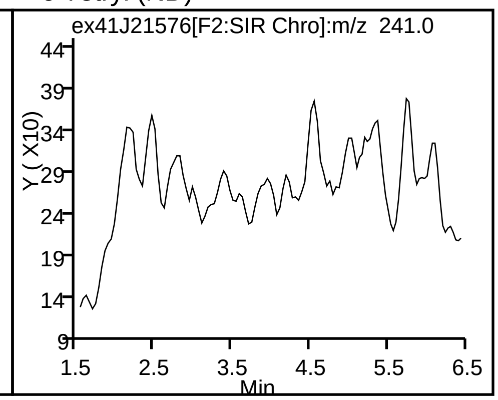
4 RDX (ND)



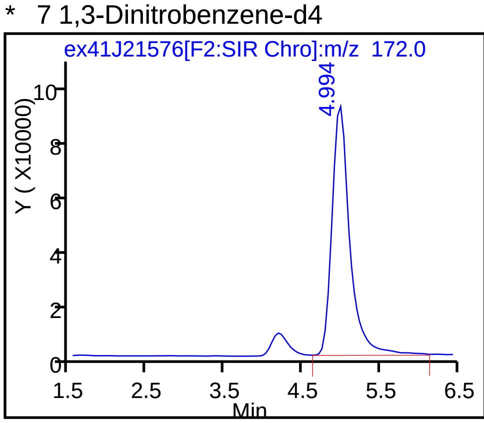
5 1,3,5-Trinitrobenzene (ND)



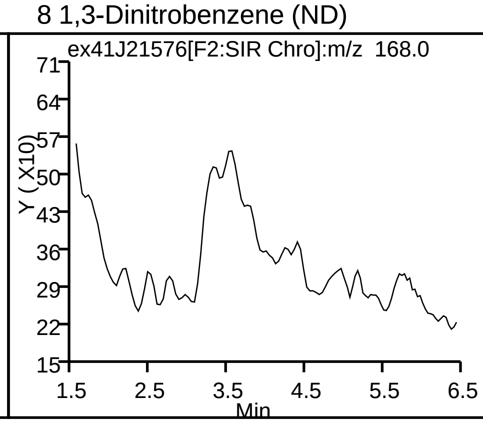
6 Tetryl (ND)



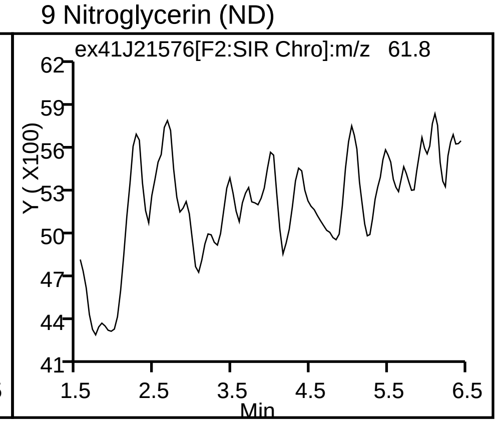
* 7 1,3-Dinitrobenzene-d4



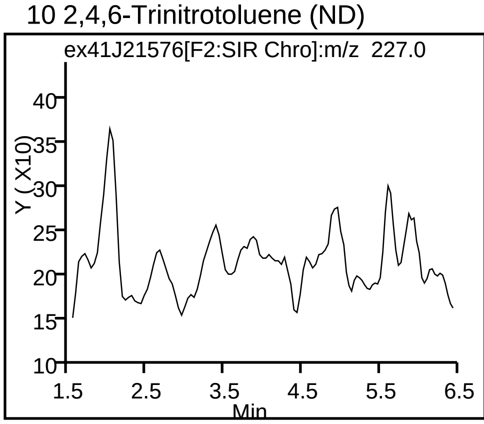
8 1,3-Dinitrobenzene (ND)



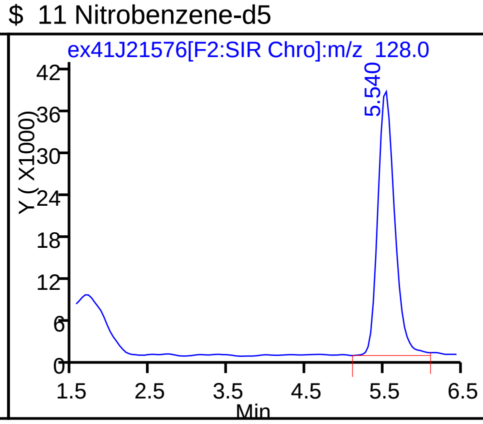
9 Nitroglycerin (ND)



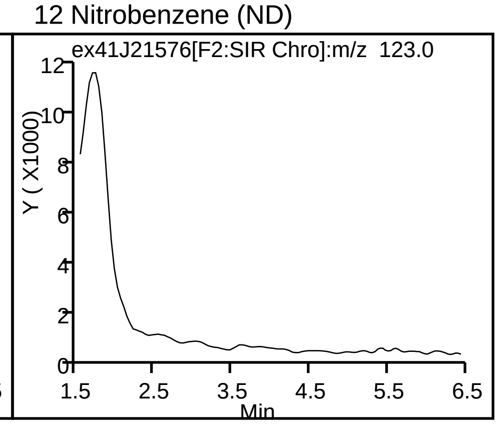
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

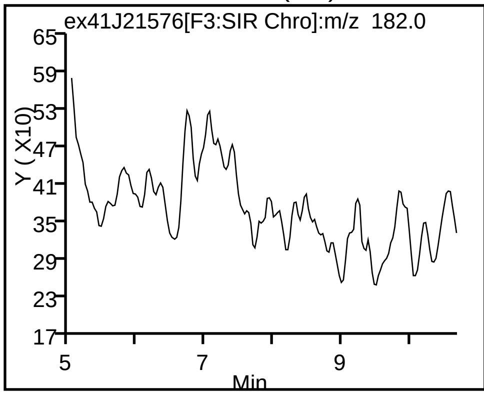


12 Nitrobenzene (ND)

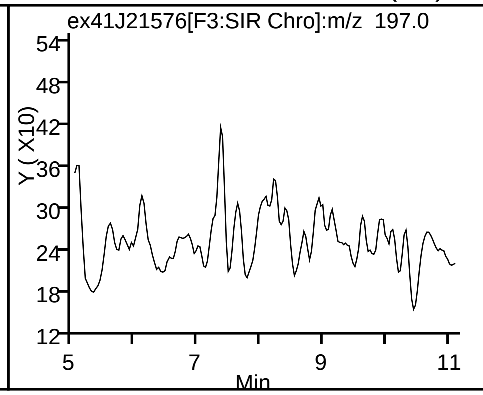


Report Date: 02-Nov-2011 06:41:28 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21576.d

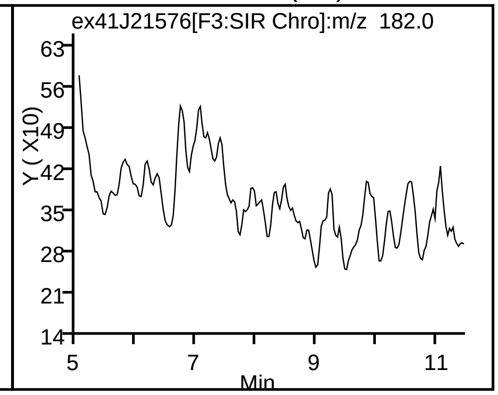
13 3,4-Dinitrotoluene (ND)



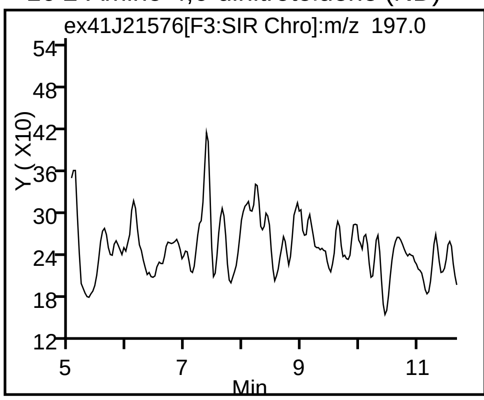
14 4-Amino-2,6-dinitrotoluene (ND)



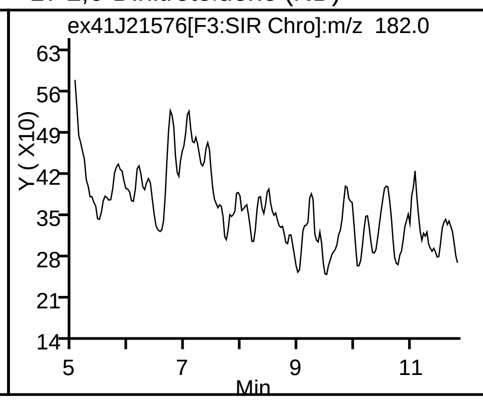
15 2,3-Dinitrotoluene (ND)



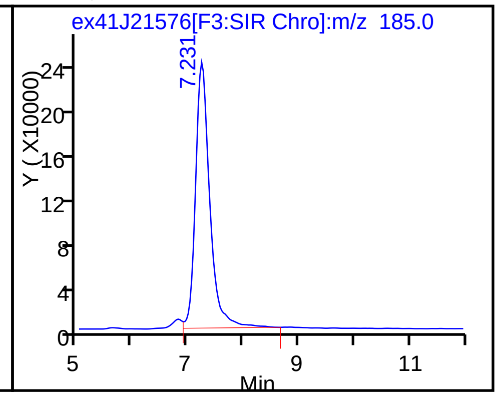
16 2-Amino-4,6-dinitrotoluene (ND)



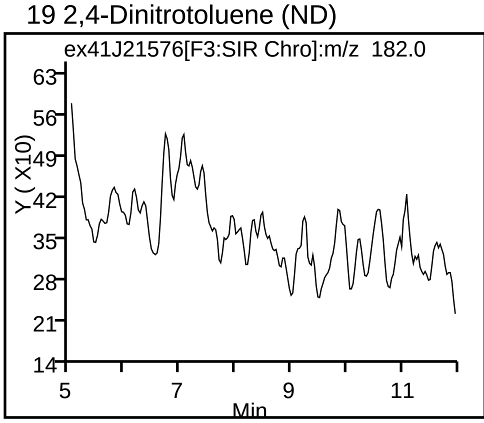
17 2,6-Dinitrotoluene (ND)



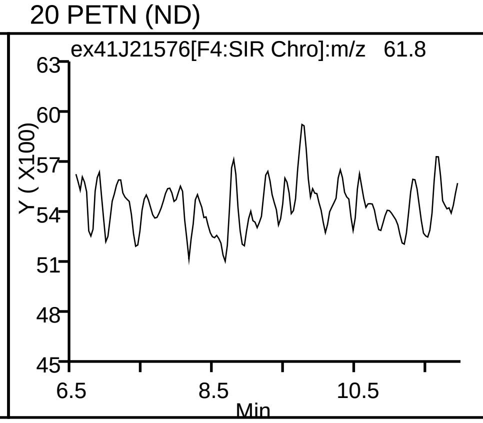
* 18 2,4-dinitrotoluene-d3



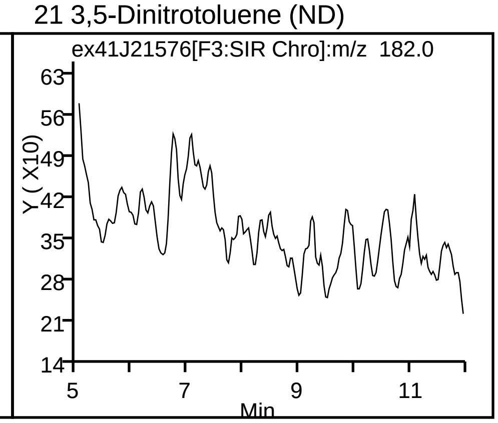
19 2,4-Dinitrotoluene (ND)



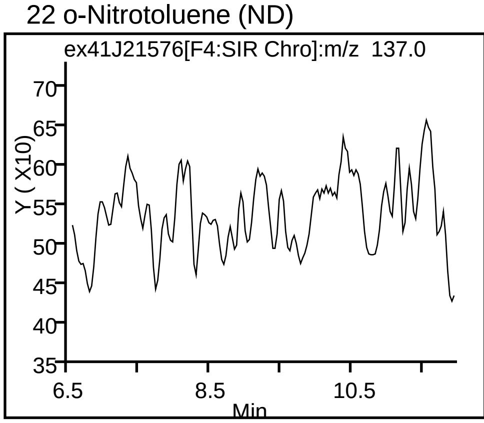
20 PETN (ND)



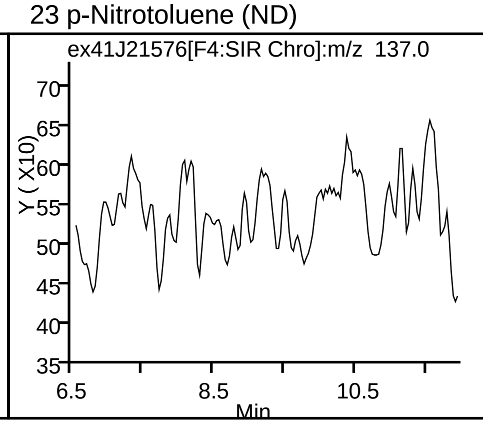
21 3,5-Dinitrotoluene (ND)



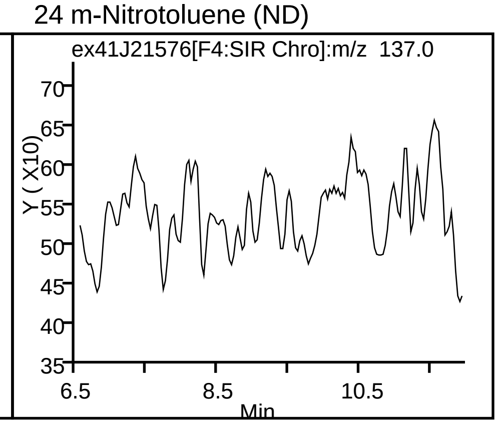
22 o-Nitrotoluene (ND)



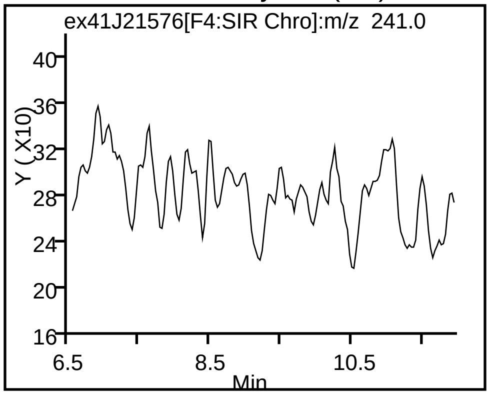
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG03 SB057 Lab Sample ID: 280-21683-47

Matrix: Solid Lab File ID: ex41J21578.d

Analysis Method: 8321B Date Collected: 10/15/2011 13:53

Extraction Method: 8330B Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.15(g) Date Analyzed: 11/01/2011 15:22

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21578.d		
Lims ID:	280-21683-B-47-B	Client ID:	SB057
Inject. Date:	01-Nov-2011 15:22:40	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-47-B 280-0002689-102		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	43
Lims Batch ID:	94192	Lims Sample ID:	102
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:28	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		537297	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1632762	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1229557	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	497718	81.9			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		4107977	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.831							
24 m-Nitrotoluene										
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

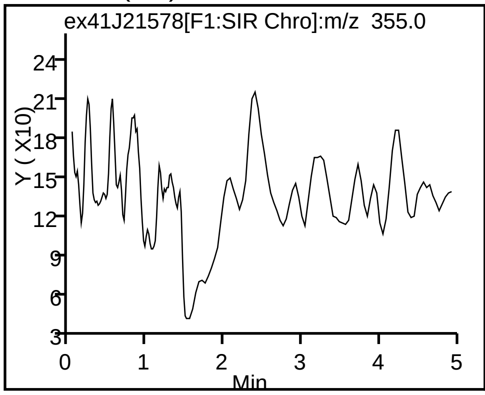
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:41:30 Chrom Revision: 1.2 13-Jul-2011 10:43:06

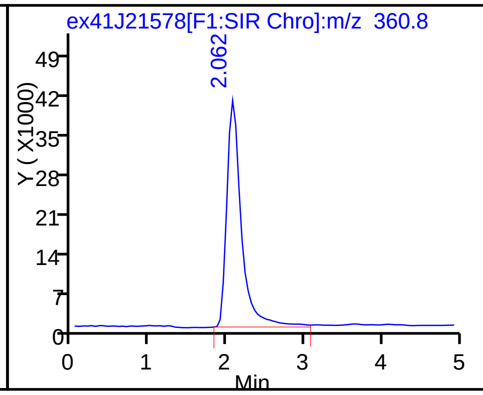
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21578.d

Injection Date:	01-Nov-2011 15:22:40	Limit Group:	LC - 8321A Expl
Client ID:	SB057	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	102
Operator ID:		Injection Vol:	40.00 ul

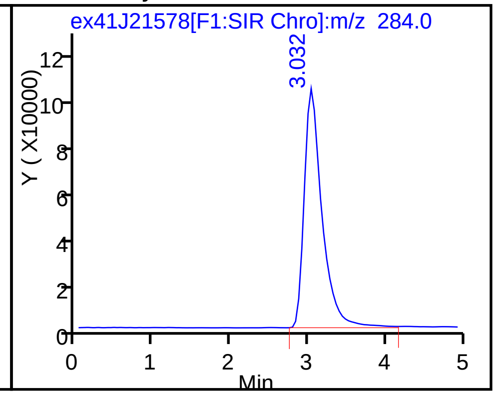
2 HMX (ND)



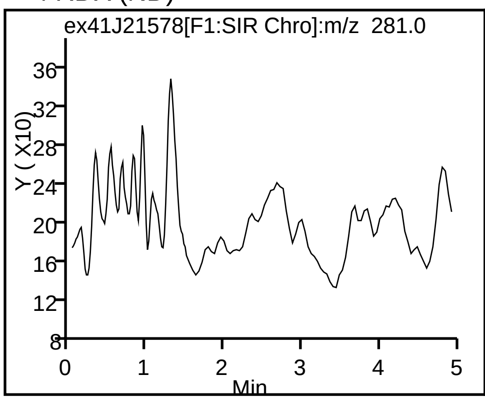
* 1 HMX-13C4



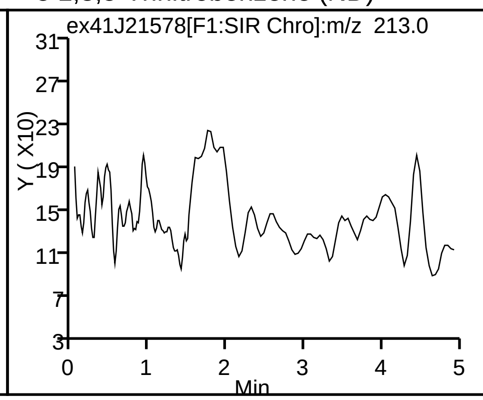
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



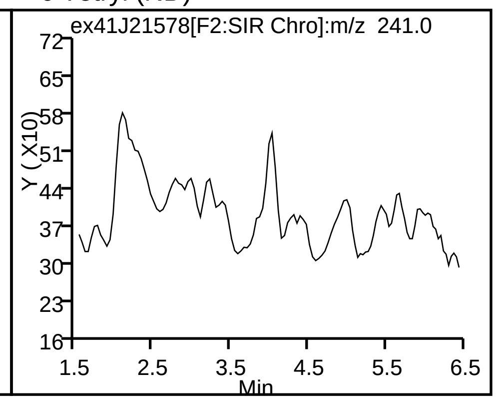
4 RDX (ND)



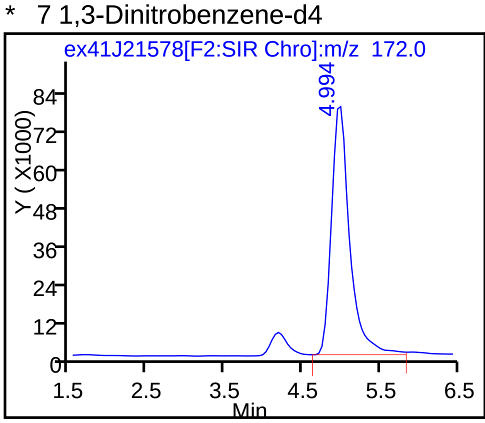
5 1,3,5-Trinitrobenzene (ND)



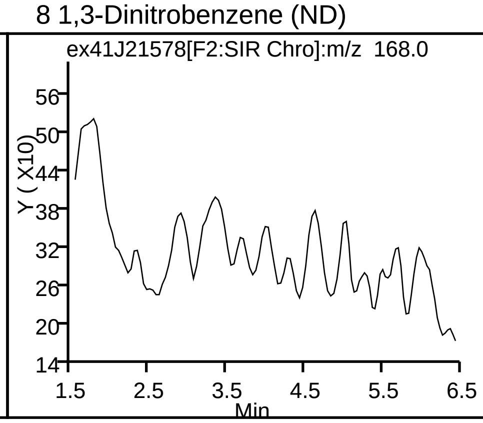
6 Tetryl (ND)



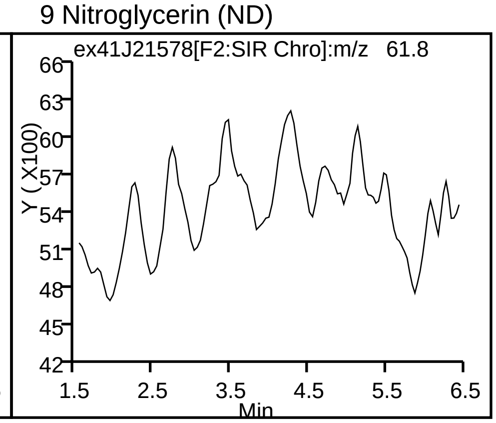
* 7 1,3-Dinitrobenzene-d4



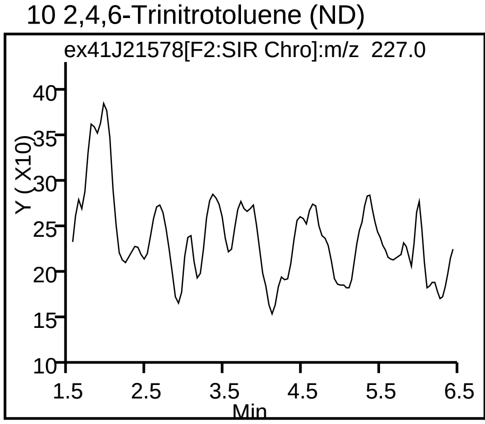
8 1,3-Dinitrobenzene (ND)



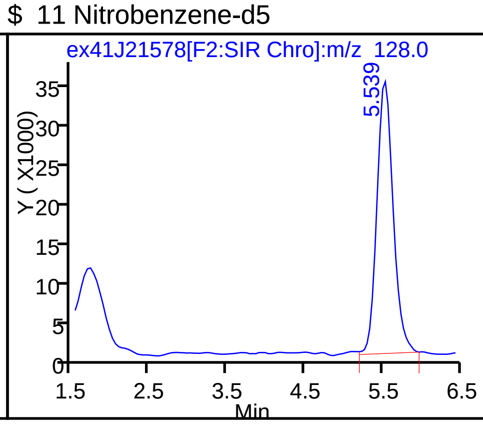
9 Nitroglycerin (ND)



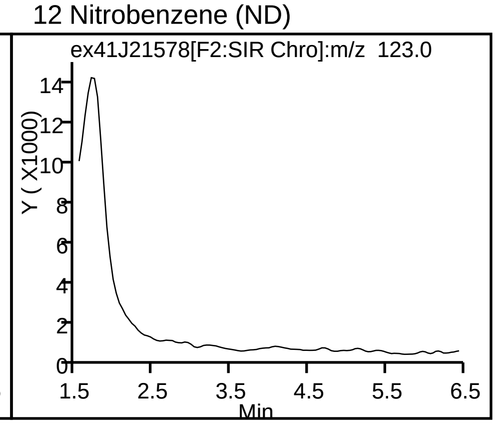
10 2,4,6-Trinitrotoluene (ND)



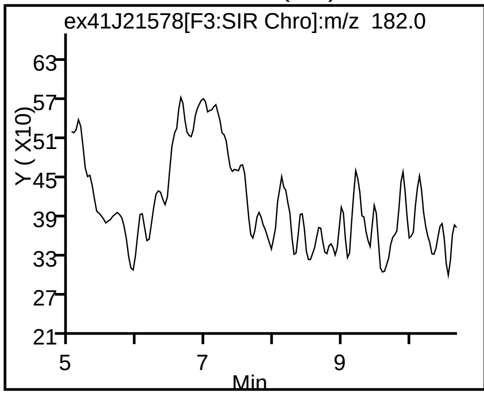
$ 11 Nitrobenzene-d5



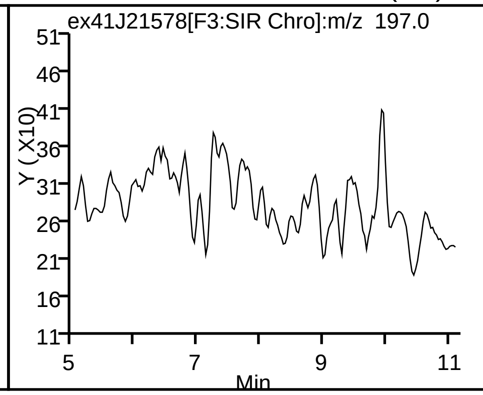
12 Nitrobenzene (ND)



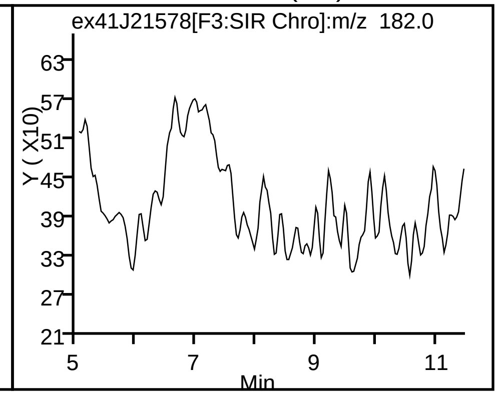
13 3,4-Dinitrotoluene (ND)



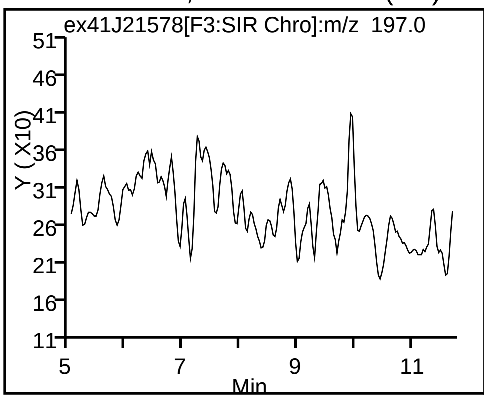
14 4-Amino-2,6-dinitrotoluene (ND)



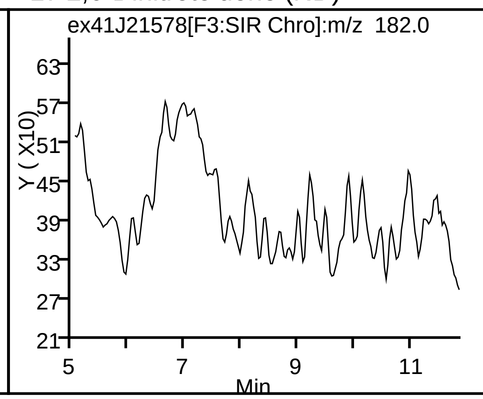
15 2,3-Dinitrotoluene (ND)



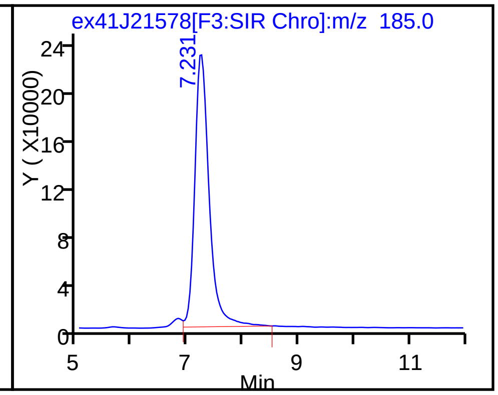
16 2-Amino-4,6-dinitrotoluene (ND)



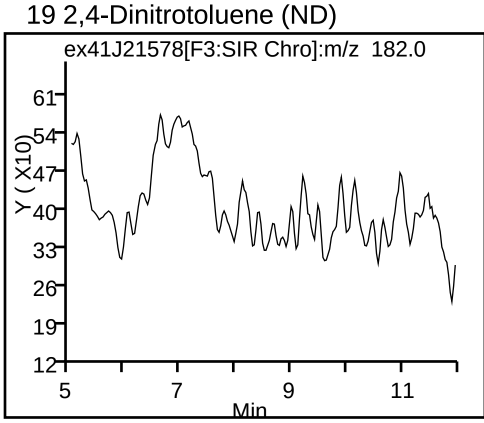
17 2,6-Dinitrotoluene (ND)



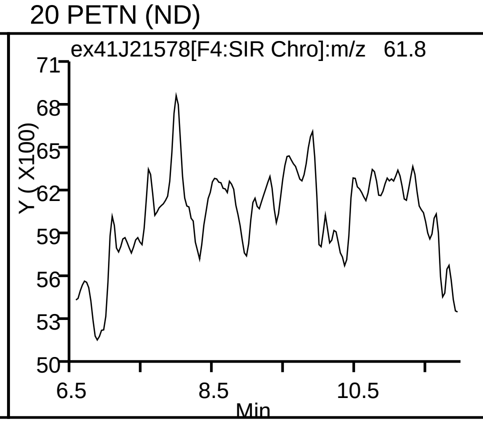
* 18 2,4-dinitrotoluene-d3



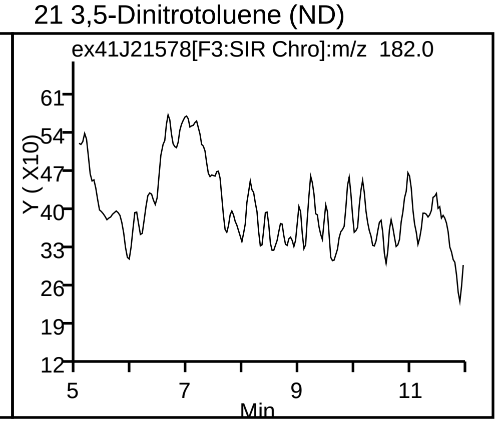
19 2,4-Dinitrotoluene (ND)



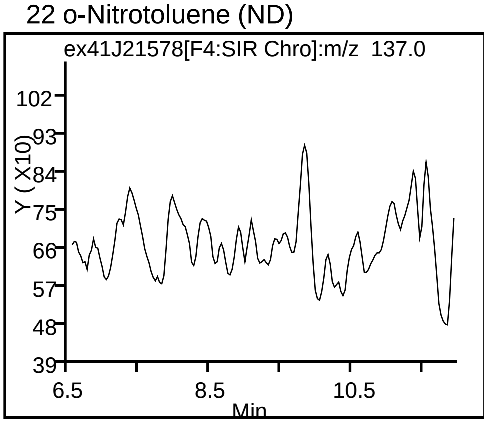
20 PETN (ND)



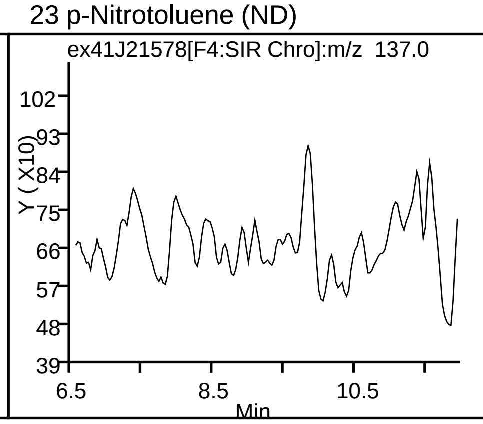
21 3,5-Dinitrotoluene (ND)



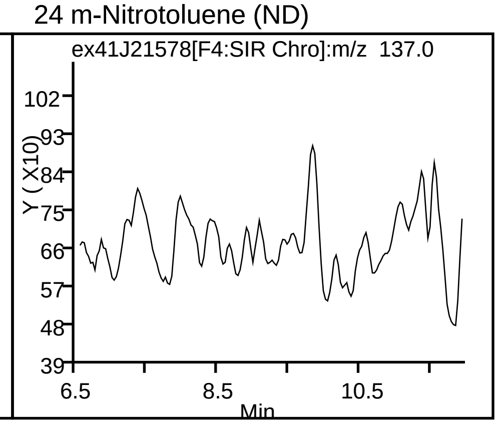
22 o-Nitrotoluene (ND)



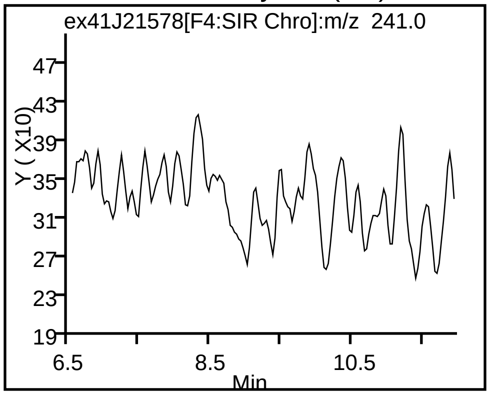
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG02 SB054   Lab Sample ID: 280-21683-48

Matrix: Solid   Lab File ID: ex41J21581.d

Analysis Method: 8321B   Date Collected: 10/15/2011 14:04

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.05(g)   Date Analyzed: 11/01/2011 16:03

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	90		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21581.d		
Lims ID:	280-21683-A-48-C	Client ID:	SB054
Inject. Date:	01-Nov-2011 16:03:37	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-48-C 280-0002689-105		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	46
Lims Batch ID:	94192	Lims Sample ID:	105
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:28	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:39:40

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		709918	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2074657	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1267521	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.118	555768	88.8			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

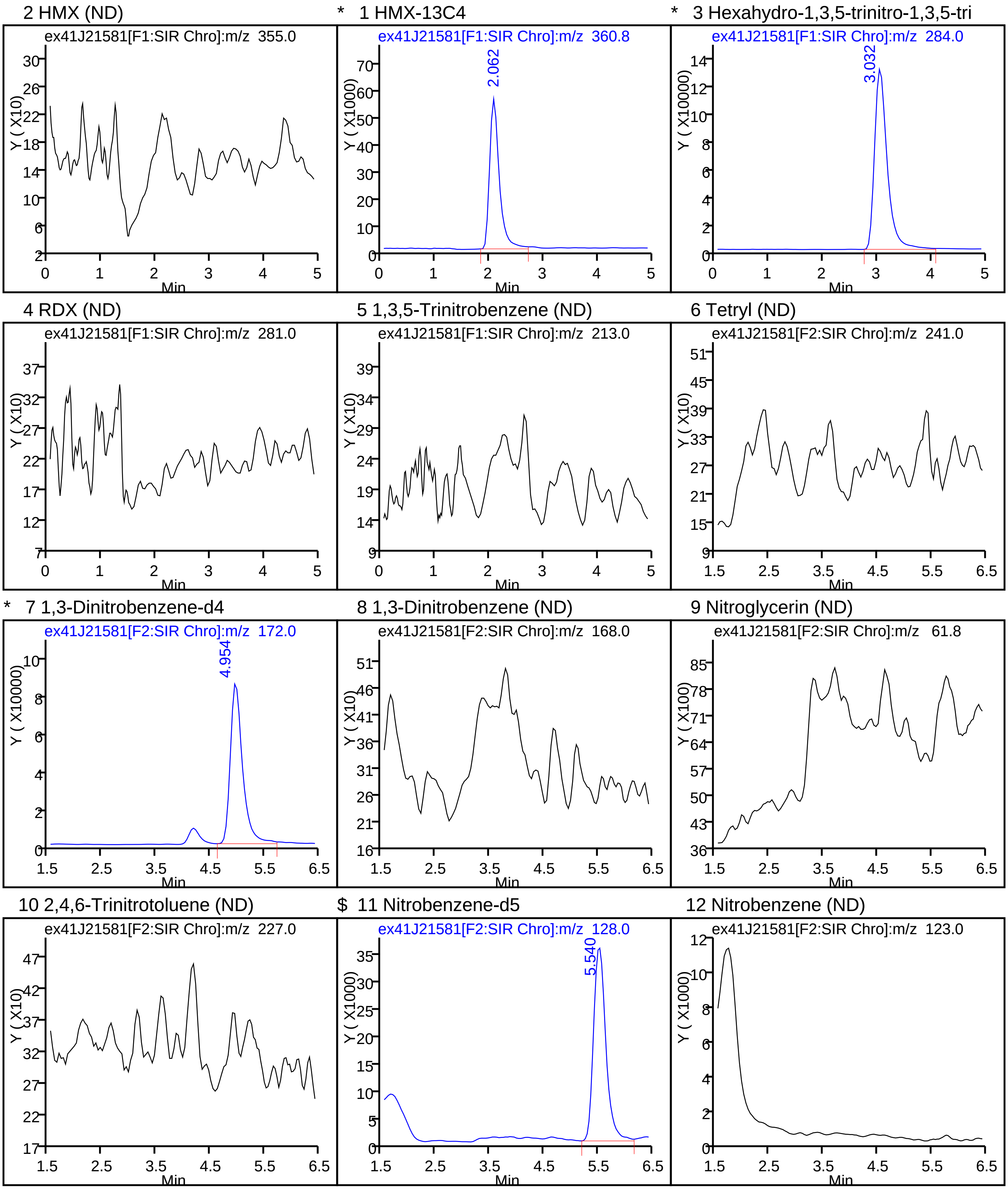
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	15 2,3-Dinitrotoluene									1
3	182.0		6.492							
	16 2-Amino-4,6-dinitrotoluene									1
3	197.0		6.715							
	17 2,6-Dinitrotoluene									1
3	182.0		6.867							
*	18 2,4-dinitrotoluene-d3									
3	185.0	7.231	7.201	0.030		4155017	250.0			
	19 2,4-Dinitrotoluene									1
3	182.0		7.292							
	20 PETN									1
4	61.8		7.768							
	21 3,5-Dinitrotoluene									1
3	182.0		7.899							
	22 o-Nitrotoluene									1
4	137.0		8.254							
	23 p-Nitrotoluene									1
4	137.0		8.831							
	24 m-Nitrotoluene									
4	137.0		9.468							
	25 2,4,6-Trinitro-3-xylene									1
4	241.0		10.379							

QC Flag Legend

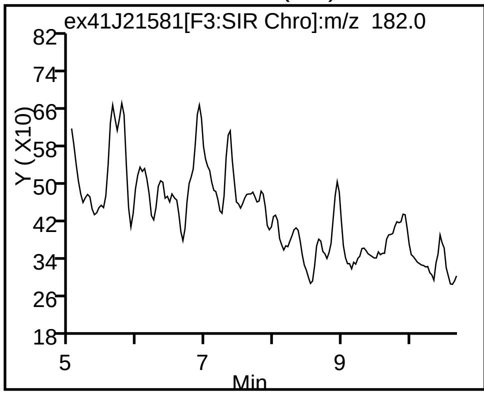
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:41:32 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21581.d

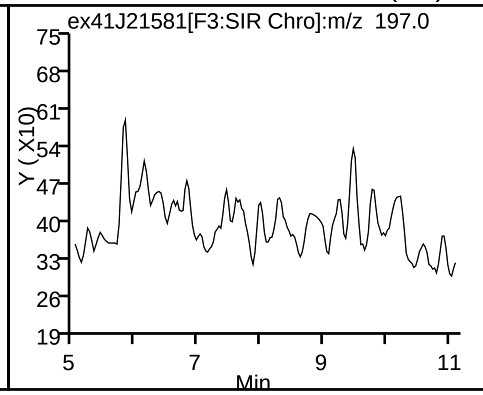
Injection Date:	01-Nov-2011 16:03:37	Limit Group:	LC - 8321A Expl
Client ID:	SB054	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	105
Operator ID:		Injection Vol:	40.00 ul



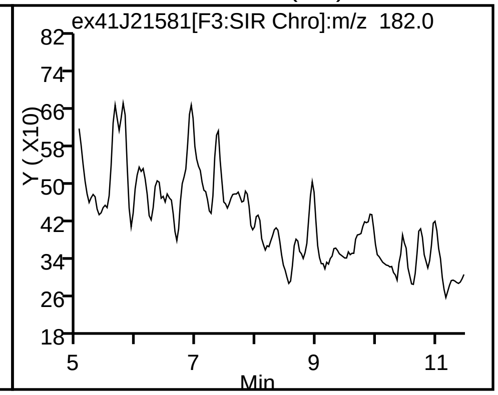
13 3,4-Dinitrotoluene (ND)



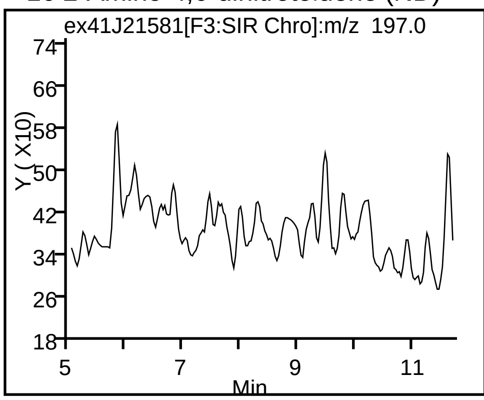
14 4-Amino-2,6-dinitrotoluene (ND)



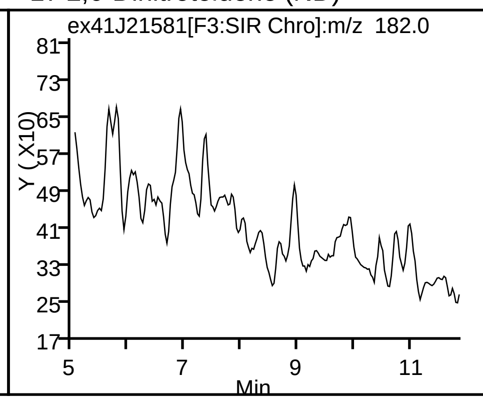
15 2,3-Dinitrotoluene (ND)



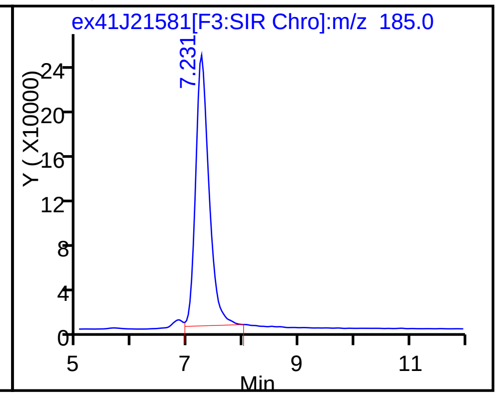
16 2-Amino-4,6-dinitrotoluene (ND)



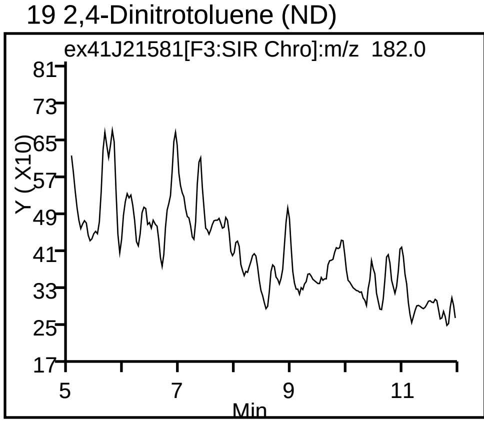
17 2,6-Dinitrotoluene (ND)



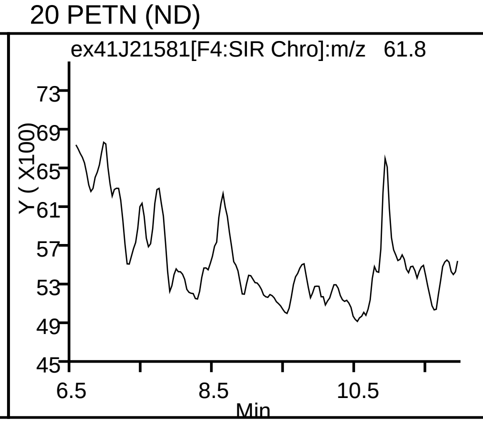
* 18 2,4-dinitrotoluene-d3



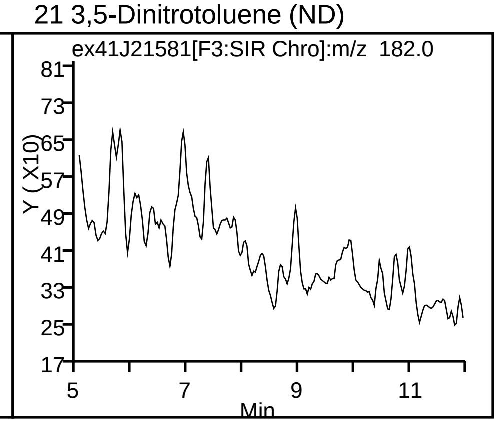
19 2,4-Dinitrotoluene (ND)



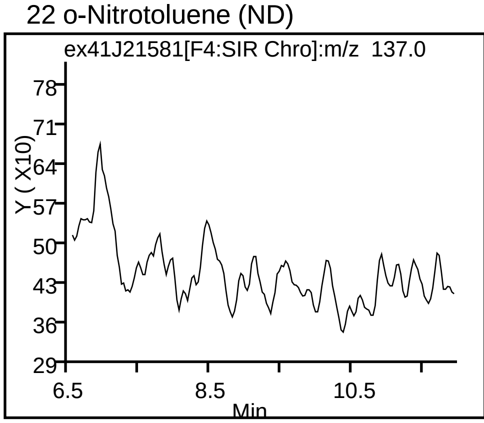
20 PETN (ND)



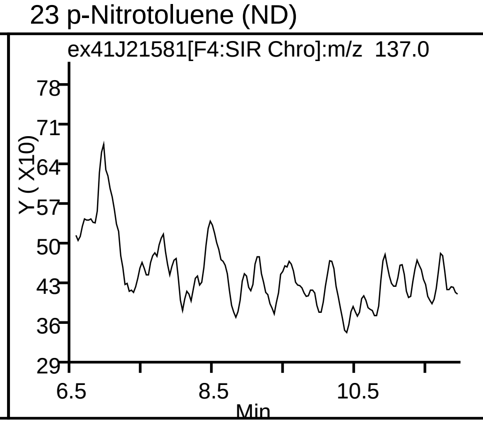
21 3,5-Dinitrotoluene (ND)



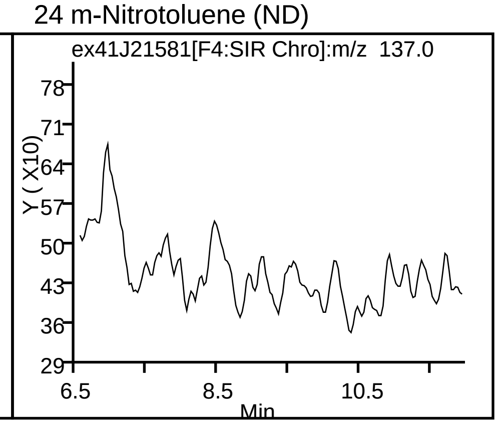
22 o-Nitrotoluene (ND)



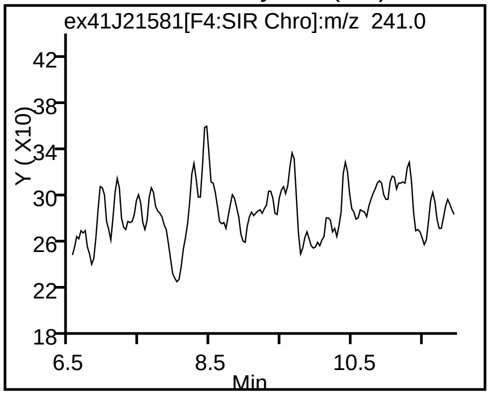
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG02 SB055   Lab Sample ID: 280-21683-49

Matrix: Solid   Lab File ID: ex41J21582.d

Analysis Method: 8321B   Date Collected: 10/15/2011 14:06

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.34(g)   Date Analyzed: 11/01/2011 16:17

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	72		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21582.d		
Lims ID:	280-21683-B-49-B	Client ID:	SB055
Inject. Date:	01-Nov-2011 16:17:12	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-49-B 280-0002689-106		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	47
Lims Batch ID:	94192	Lims Sample ID:	106
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:28	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		783672	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2094540	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1619981	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	571169	71.3			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.261	7.201	0.060		4713519	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.831							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

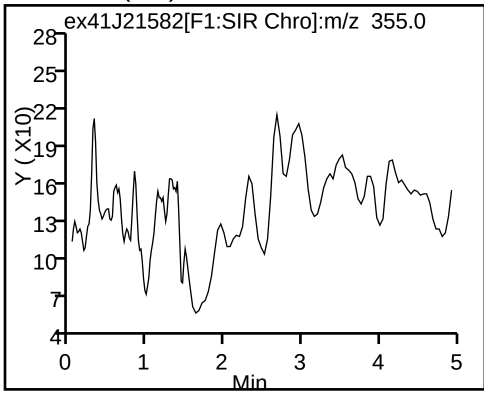
QC Flag Legend

Processing Flags
1 - Missing Peaks

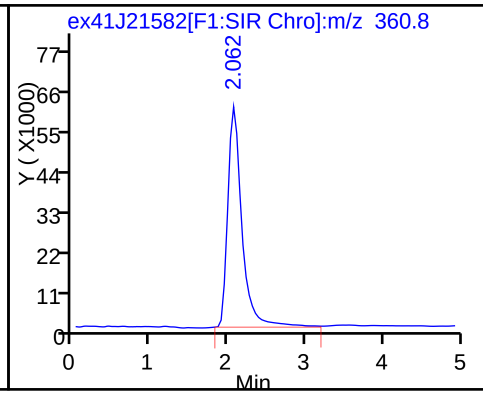
Report Date: 02-Nov-2011 06:41:33 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21582.d		
Injection Date:	01-Nov-2011 16:17:12	Limit Group:	LC - 8321A Expl
Client ID:	SB055	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	106
Operator ID:		Injection Vol:	40.00 ul

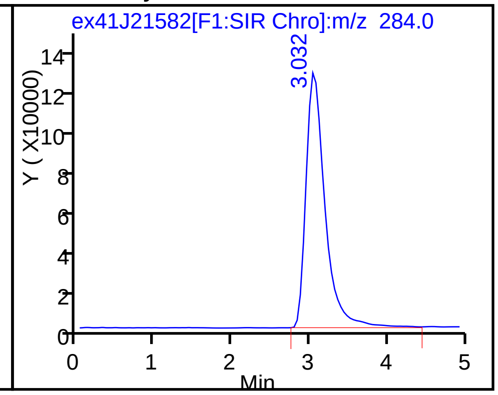
2 HMX (ND)



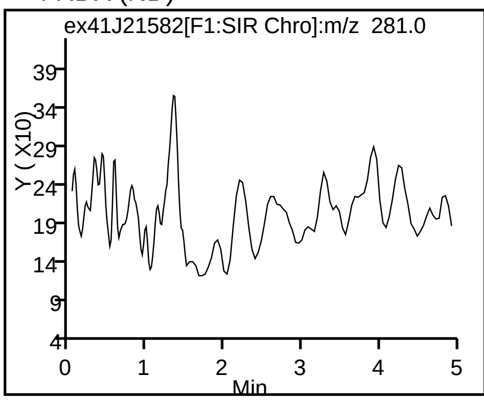
* 1 HMX-13C4



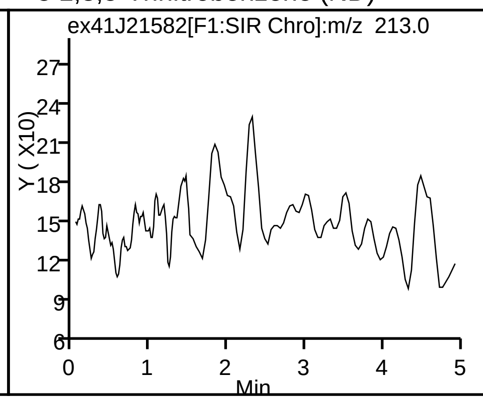
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



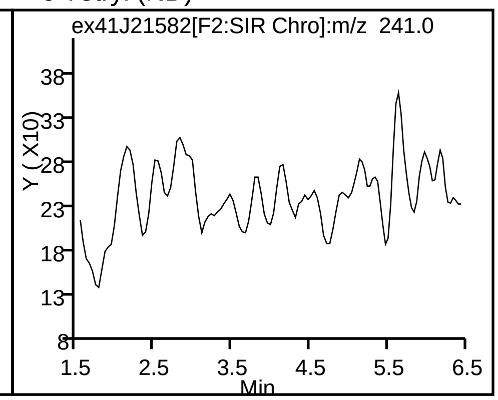
4 RDX (ND)



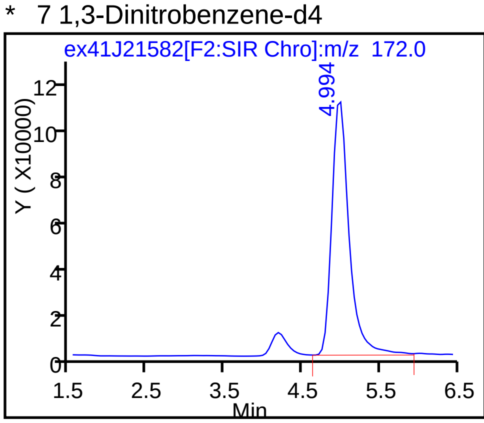
5 1,3,5-Trinitrobenzene (ND)



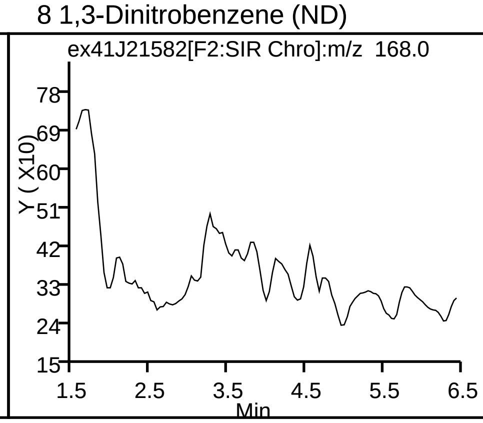
6 Tetryl (ND)



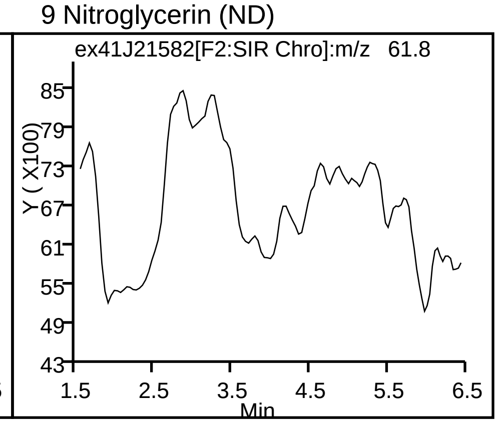
* 7 1,3-Dinitrobenzene-d4



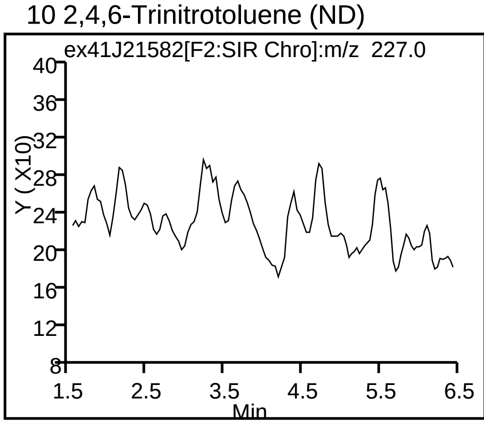
8 1,3-Dinitrobenzene (ND)



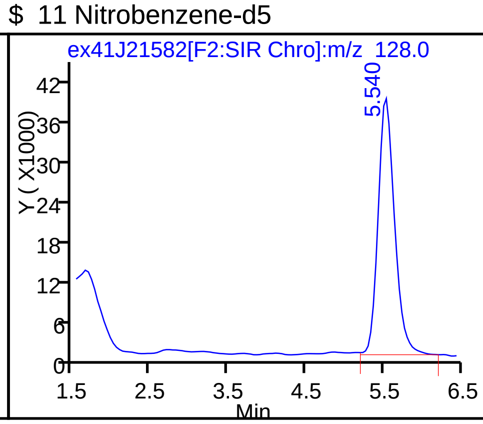
9 Nitroglycerin (ND)



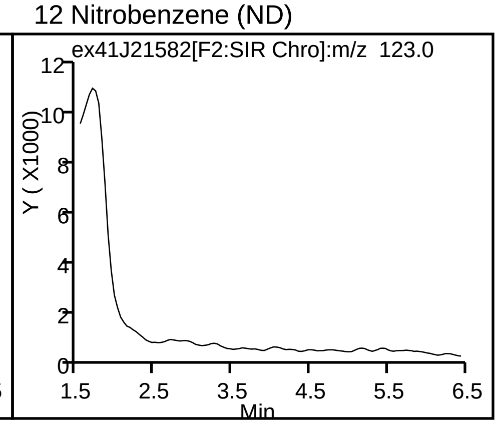
10 2,4,6-Trinitrotoluene (ND)



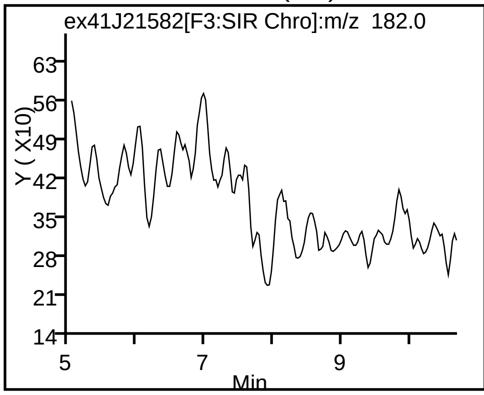
$ 11 Nitrobenzene-d5



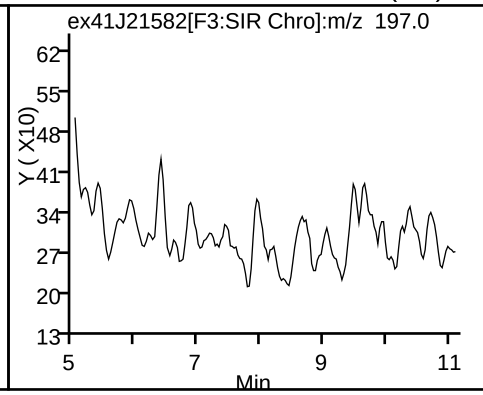
12 Nitrobenzene (ND)



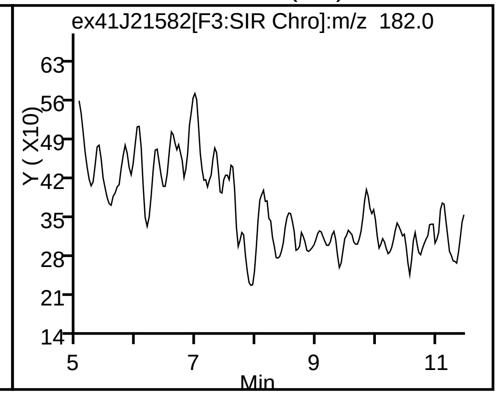
13 3,4-Dinitrotoluene (ND)



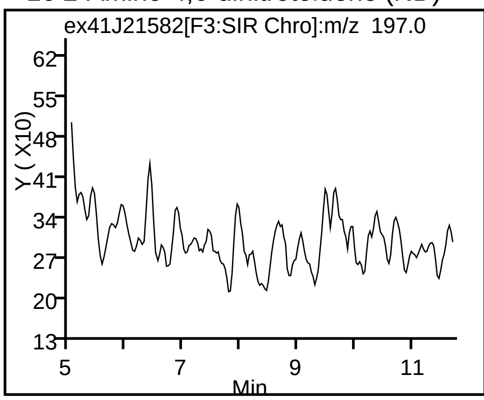
14 4-Amino-2,6-dinitrotoluene (ND)



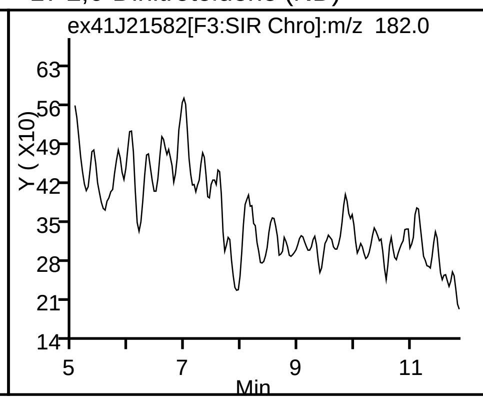
15 2,3-Dinitrotoluene (ND)



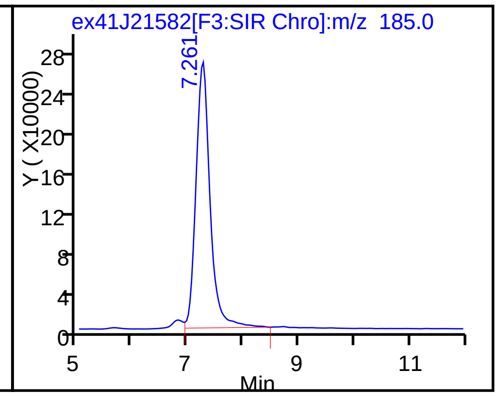
16 2-Amino-4,6-dinitrotoluene (ND)



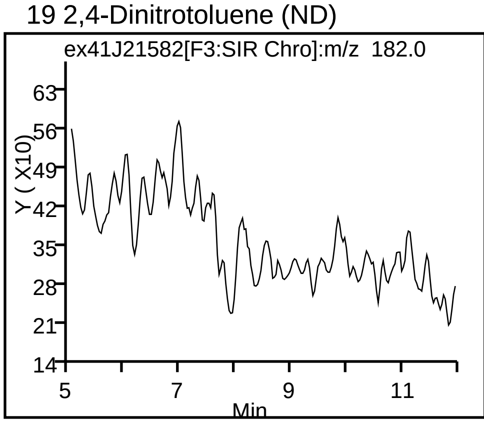
17 2,6-Dinitrotoluene (ND)



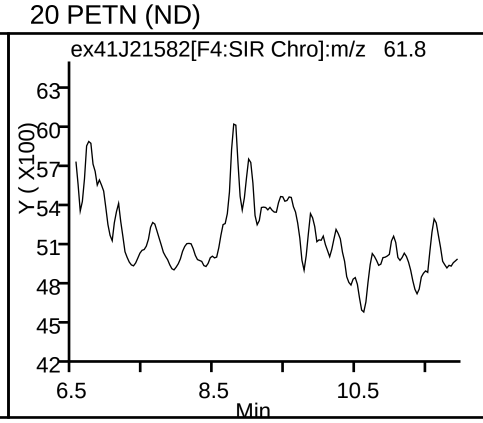
* 18 2,4-dinitrotoluene-d3



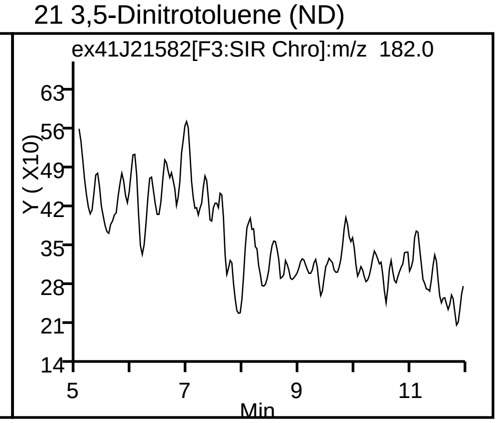
19 2,4-Dinitrotoluene (ND)



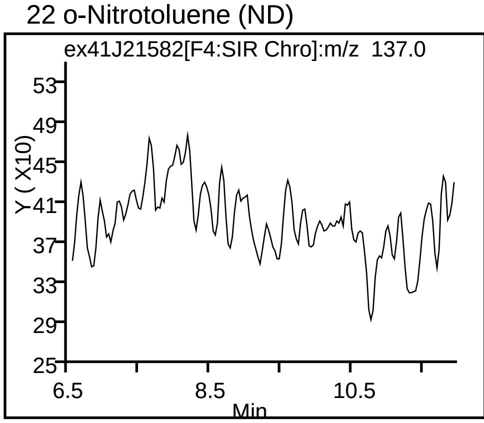
20 PETN (ND)



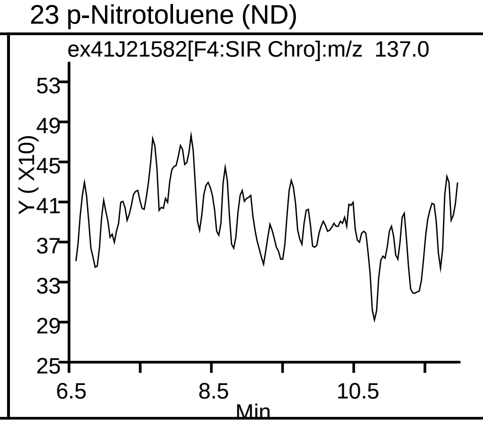
21 3,5-Dinitrotoluene (ND)



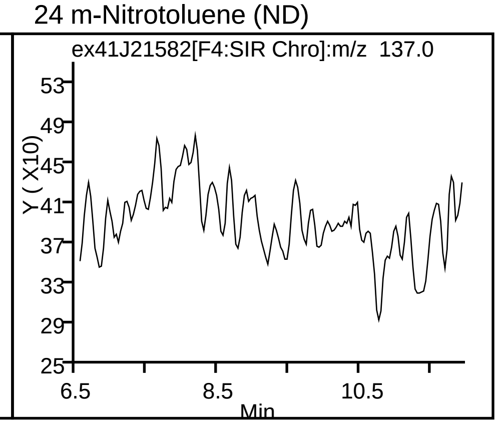
22 o-Nitrotoluene (ND)



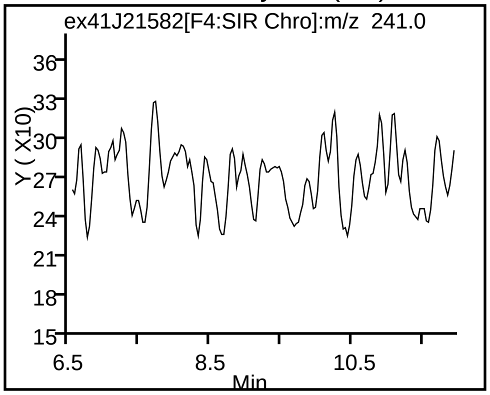
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG15 SB081 | Lab Sample ID: 280-21683-50

Matrix: Solid | Lab File ID: ex41J21583.d

Analysis Method: 8321B | Date Collected: 10/15/2011 14:19

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.50(g) | Date Analyzed: 11/01/2011 16:30

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21583.d		
Lims ID:	280-21683-B-50-B	Client ID:	SB081
Inject. Date:	01-Nov-2011 16:30:45	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-50-B 280-0002689-107		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	48
Lims Batch ID:	94192	Lims Sample ID:	107
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:28	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									1
1	355.0		2.062							
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		703504	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2280692	250.0			
	4 RDX									1
1	281.0		3.032							
	5 1,3,5-Trinitrobenzene									1
1	213.0		3.759							
	6 Tetryl									1
2	241.0		4.469							
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.994	4.954	0.040		1422377	258.7			
	8 1,3-Dinitrobenzene									1
2	168.0		5.035							
	9 Nitroglycerin									
2	61.8		5.068							
	10 2,4,6-Trinitrotoluene									1
2	227.0		5.439							
$	11 Nitrobenzene-d5									
2	128.0	5.539	5.506	0.033	1.109	564055	80.3			
	12 Nitrobenzene									1
2	123.0		5.607							
	13 3,4-Dinitrotoluene									1
3	182.0		5.684							
	14 4-Amino-2,6-dinitrotoluene									1
3	197.0		6.122							
	15 2,3-Dinitrotoluene									1
3	182.0		6.492							

Report Date: 02-Nov-2011 06:41:34 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21583.d

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		4156710	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.831							
24 m-Nitrotoluene										
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

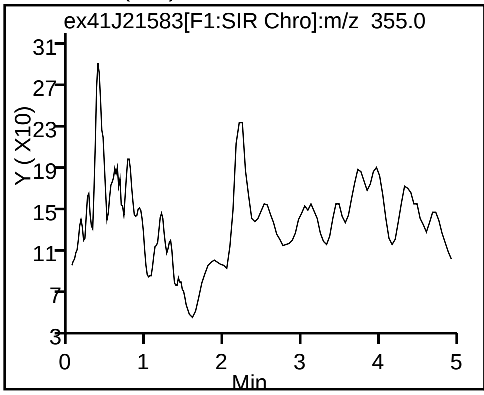
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:41:34 Chrom Revision: 1.2 13-Jul-2011 10:43:06

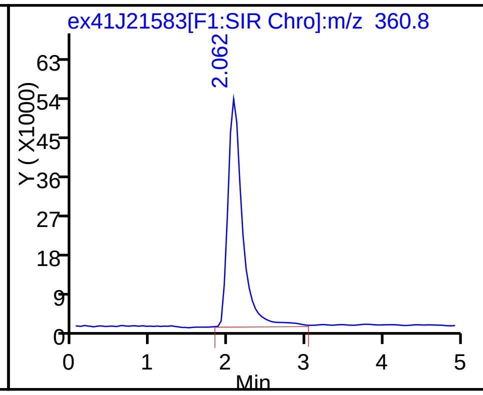
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21583.d

Injection Date:	01-Nov-2011 16:30:45	Limit Group:	LC - 8321A Expl
Client ID:	SB081	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	107
Operator ID:		Injection Vol:	40.00 ul

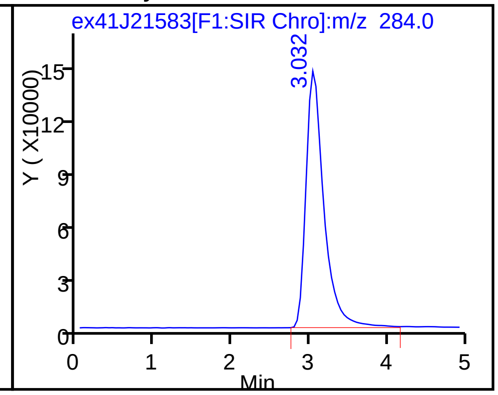
2 HMX (ND)



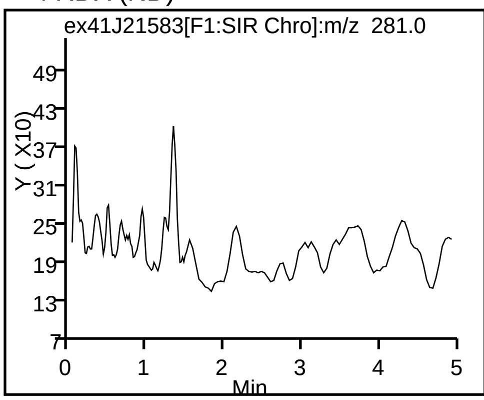
* 1 HMX-13C4



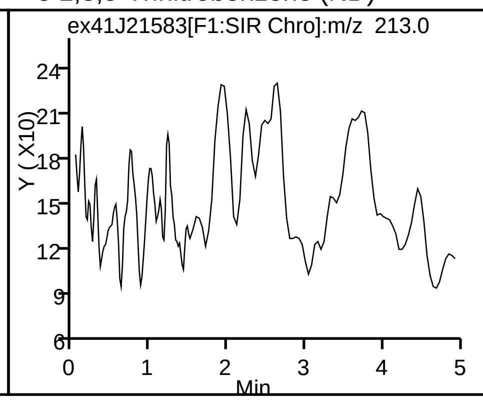
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



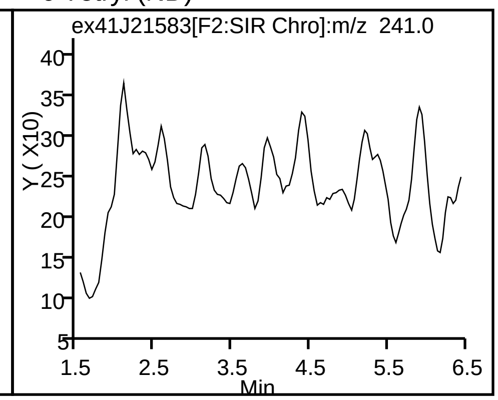
4 RDX (ND)



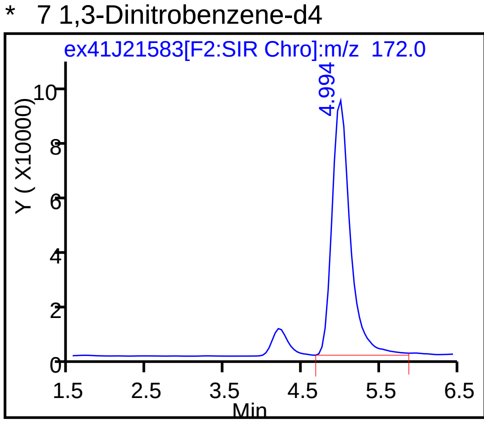
5 1,3,5-Trinitrobenzene (ND)



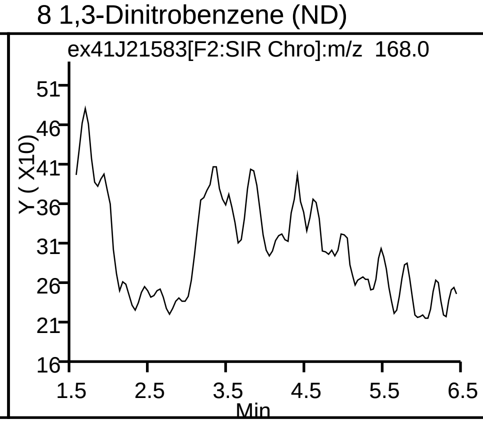
6 Tetryl (ND)



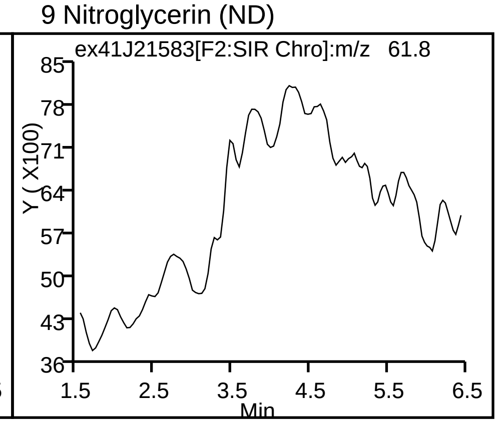
* 7 1,3-Dinitrobenzene-d4



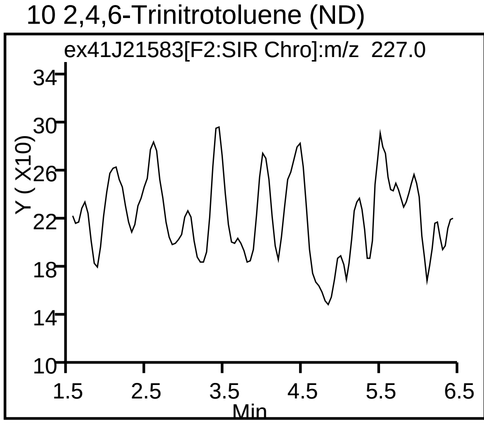
8 1,3-Dinitrobenzene (ND)



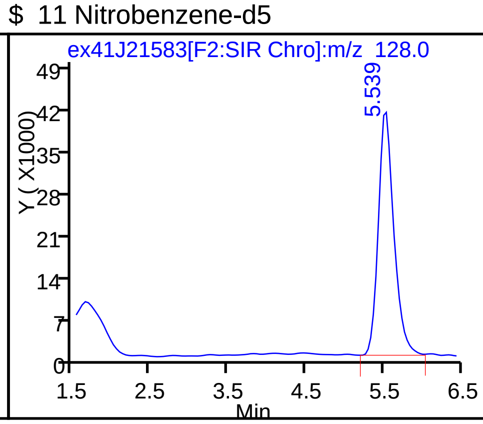
9 Nitroglycerin (ND)



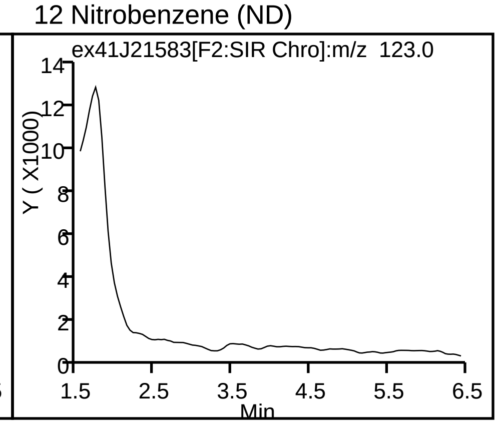
10 2,4,6-Trinitrotoluene (ND)



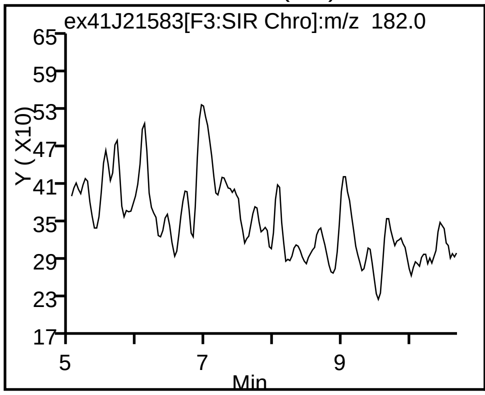
$ 11 Nitrobenzene-d5



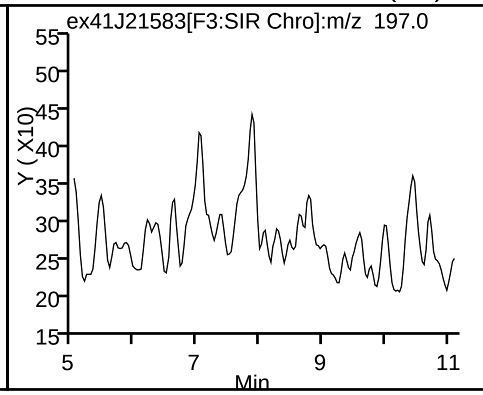
12 Nitrobenzene (ND)



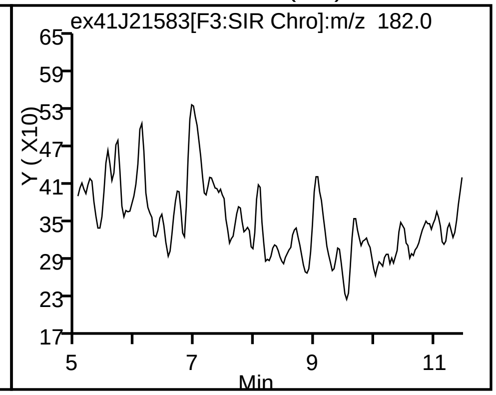
13 3,4-Dinitrotoluene (ND)



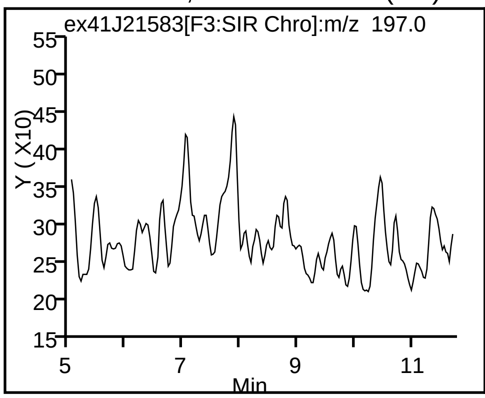
14 4-Amino-2,6-dinitrotoluene (ND)



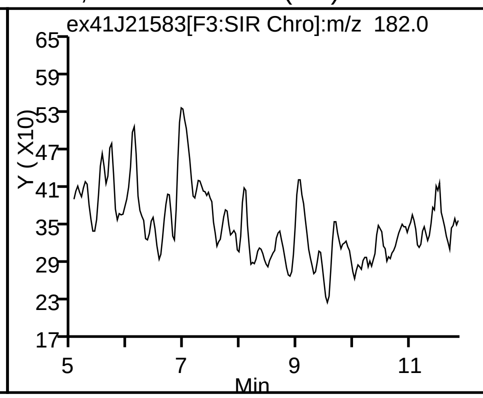
15 2,3-Dinitrotoluene (ND)



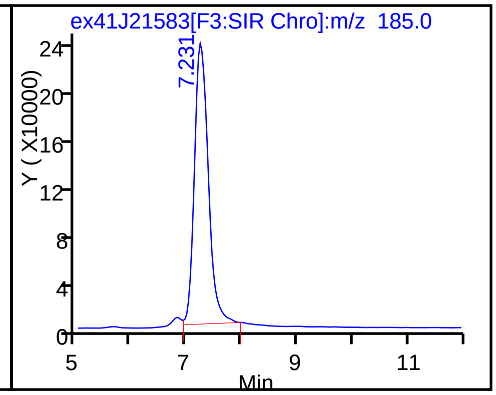
16 2-Amino-4,6-dinitrotoluene (ND)



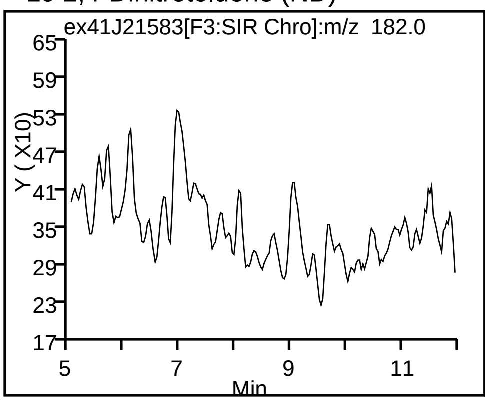
17 2,6-Dinitrotoluene (ND)



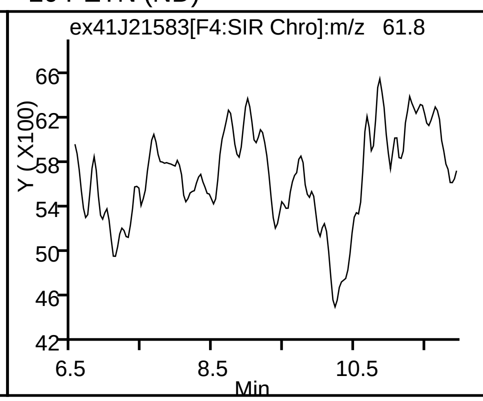
* 18 2,4-dinitrotoluene-d3



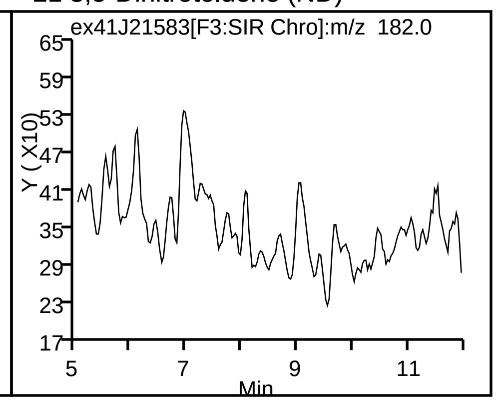
19 2,4-Dinitrotoluene (ND)



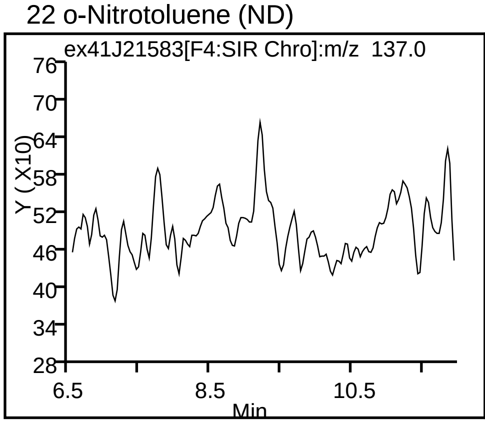
20 PETN (ND)



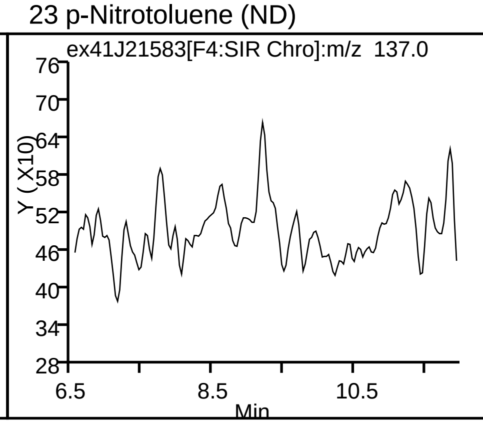
21 3,5-Dinitrotoluene (ND)



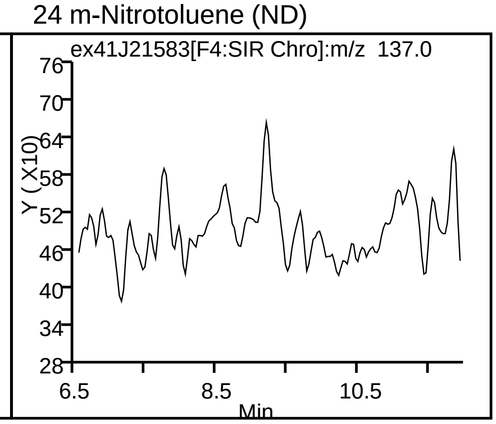
22 o-Nitrotoluene (ND)



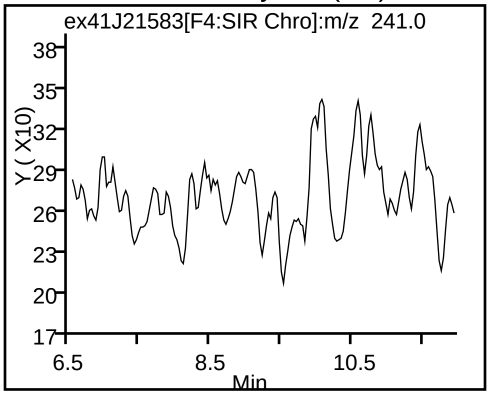
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name:	TestAmerica Denver	Job No.:	280-21683-1
SDG No.:			
Client Sample ID:	MG15 SB082	Lab Sample ID:	280-21683-51
Matrix:	Solid	Lab File ID:	ex41J21584.d
Analysis Method:	8321B	Date Collected:	10/15/2011 14:22
Extraction Method:	8330B	Date Extracted:	10/20/2011 19:23
Sample wt/vol:	10.08(g)	Date Analyzed:	11/01/2011 16:44
Con. Extract Vol.:	40(mL)	Dilution Factor:	1
Injection Volume:	40(uL)	GC Column:	IonPac ID: 2(mm)
% Moisture:		GPC Cleanup:(Y/N)	N
Analysis Batch No.:	94192	Units:	mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21584.d		
Lims ID:	280-21683-B-51-B	Client ID:	SB082
Inject. Date:	01-Nov-2011 16:44:20	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-51-B 280-0002689-108		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	49
Lims Batch ID:	94192	Lims Sample ID:	108
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:28	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:40:06

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		704993	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2324108	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1385975	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	526582	76.9			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		4160166	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.831							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

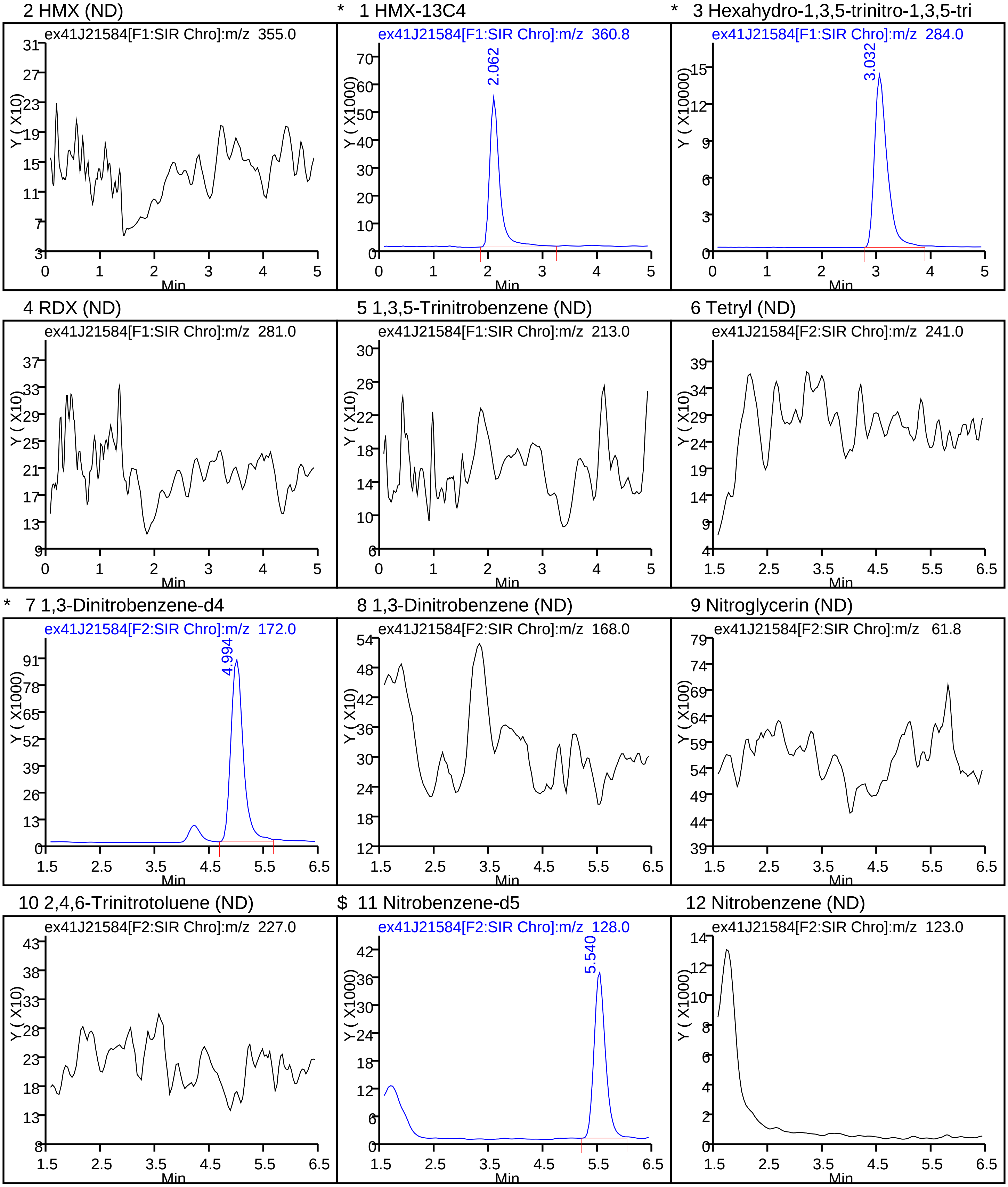
QC Flag Legend

Processing Flags
1 - Missing Peaks

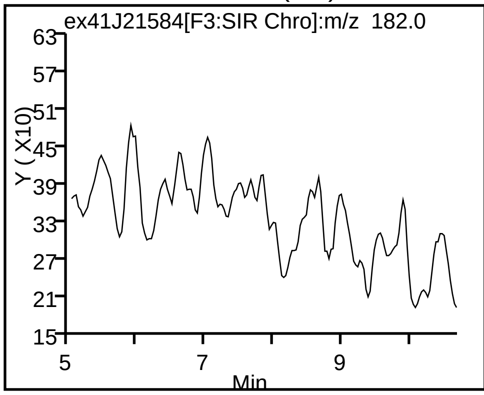
Report Date: 02-Nov-2011 06:41:35 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21584.d

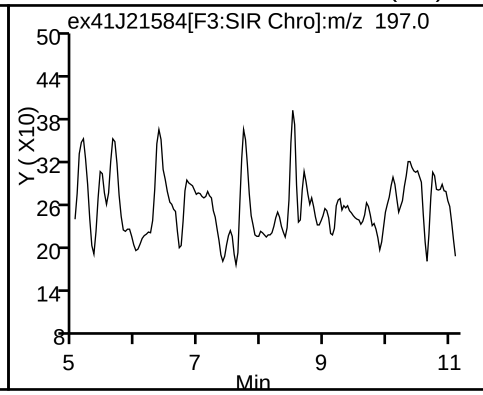
Injection Date:	01-Nov-2011 16:44:20	Limit Group:	LC - 8321A Expl
Client ID:	SB082	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	108
Operator ID:		Injection Vol:	40.00 ul



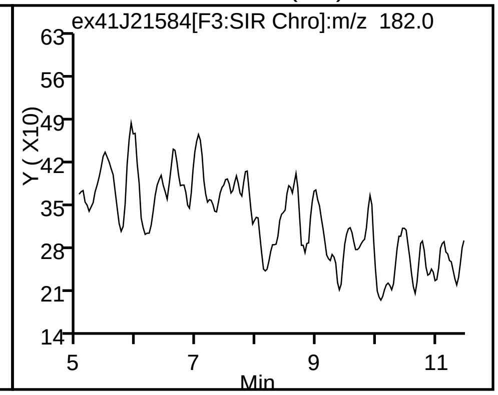
13 3,4-Dinitrotoluene (ND)



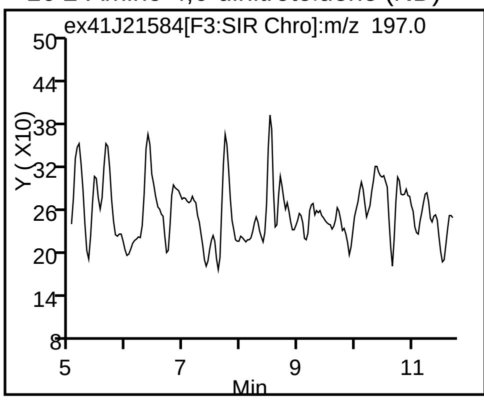
14 4-Amino-2,6-dinitrotoluene (ND)



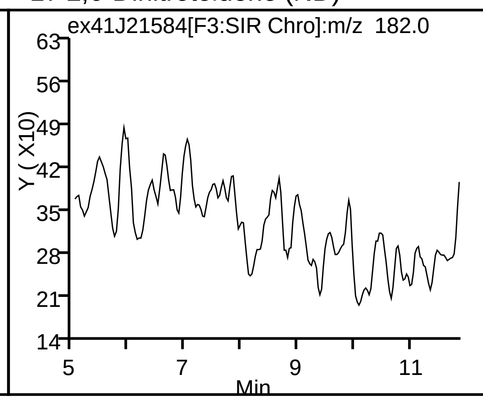
15 2,3-Dinitrotoluene (ND)



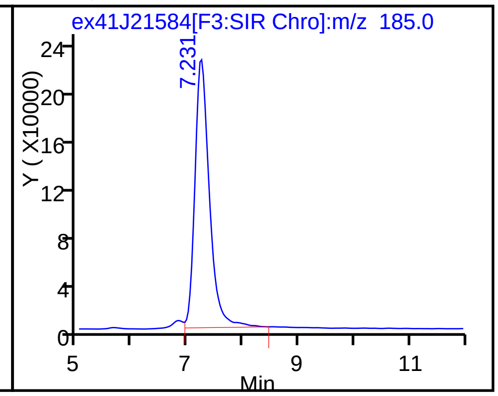
16 2-Amino-4,6-dinitrotoluene (ND)



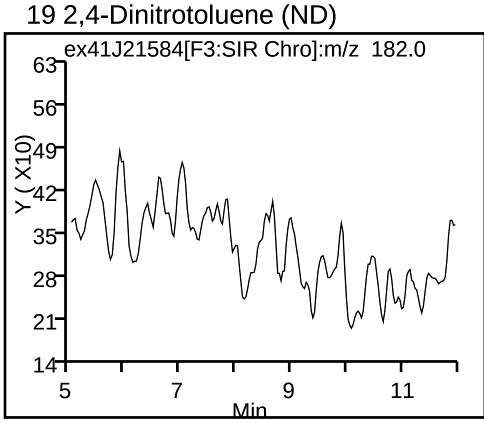
17 2,6-Dinitrotoluene (ND)



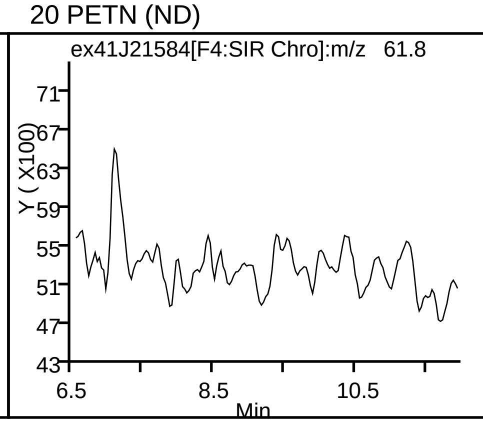
* 18 2,4-dinitrotoluene-d3



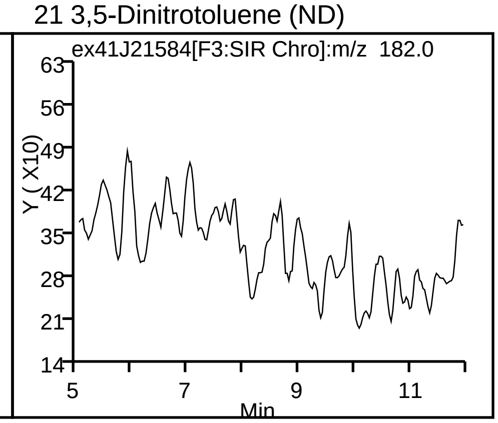
19 2,4-Dinitrotoluene (ND)



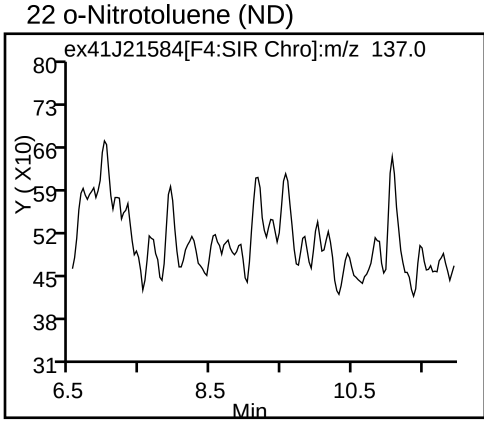
20 PETN (ND)



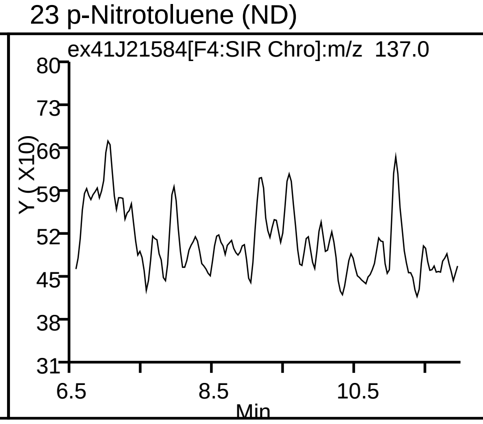
21 3,5-Dinitrotoluene (ND)



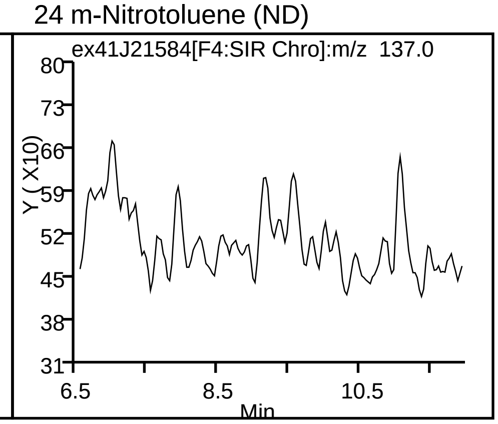
22 o-Nitrotoluene (ND)



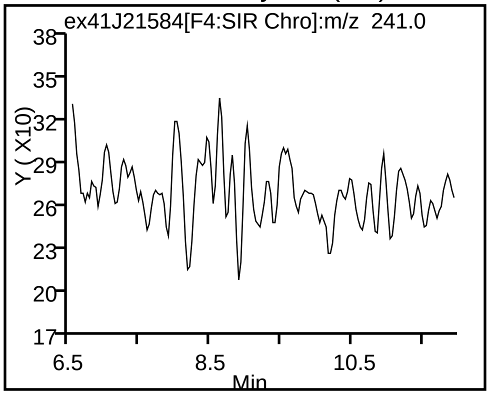
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG12 SB073 | Lab Sample ID: 280-21683-52

Matrix: Solid | Lab File ID: ex41J21585.d

Analysis Method: 8321B | Date Collected: 10/15/2011 14:40

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.03(g) | Date Analyzed: 11/01/2011 16:58

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0082
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21585.d		
Lims ID:	280-21683-B-52-B	Client ID:	SB073
Inject. Date:	01-Nov-2011 16:58:10	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-52-B 280-0002689-109		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	50
Lims Batch ID:	94192	Lims Sample ID:	109
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:28	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:40:19

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		721364	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2322400	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1358611	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	518227	77.2			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		3561516	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.831							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

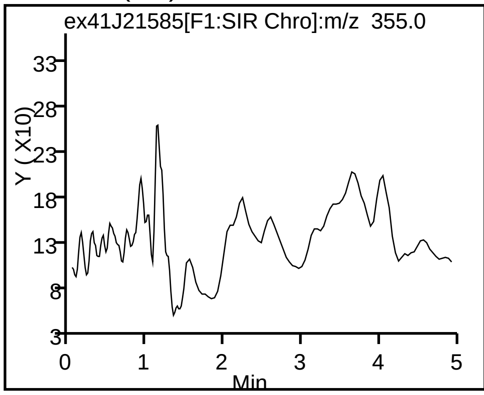
QC Flag Legend

Processing Flags
1 - Missing Peaks

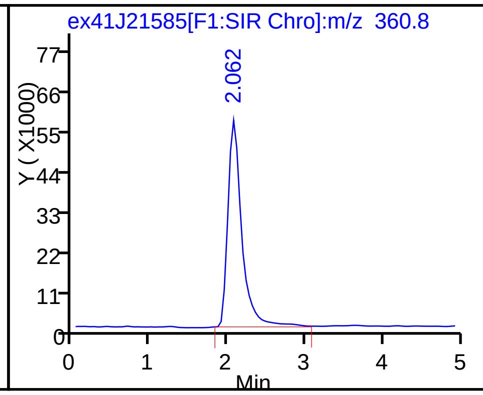
Report Date: 02-Nov-2011 06:41:36 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21585.d

Injection Date:	01-Nov-2011 16:58:10	Limit Group:	LC - 8321A Expl
Client ID:	SB073	Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	109
Operator ID:		Injection Vol:	40.00 ul

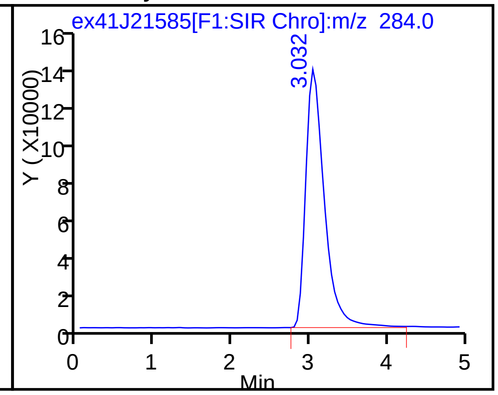
2 HMX (ND)



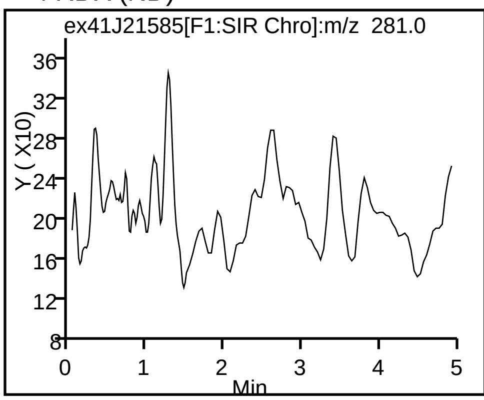
* 1 HMX-13C4



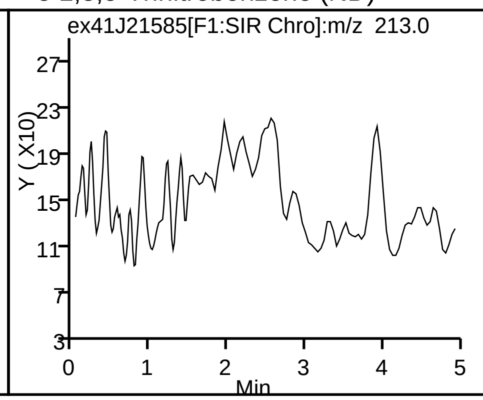
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



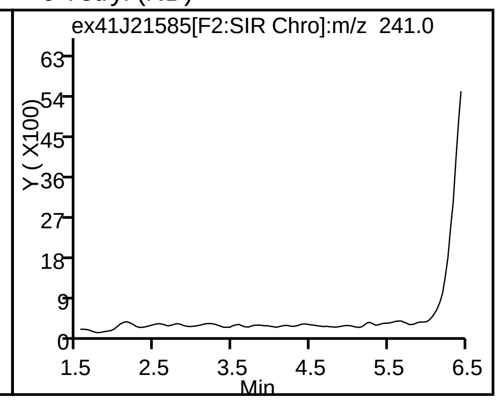
4 RDX (ND)



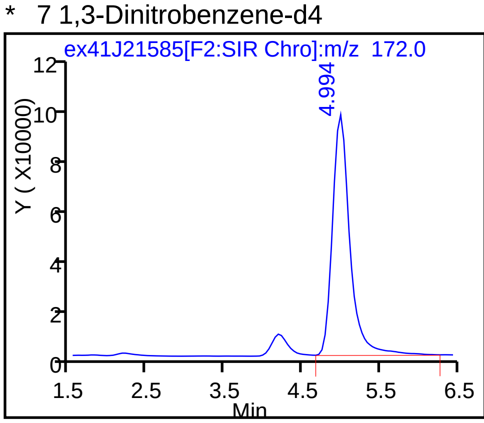
5 1,3,5-Trinitrobenzene (ND)



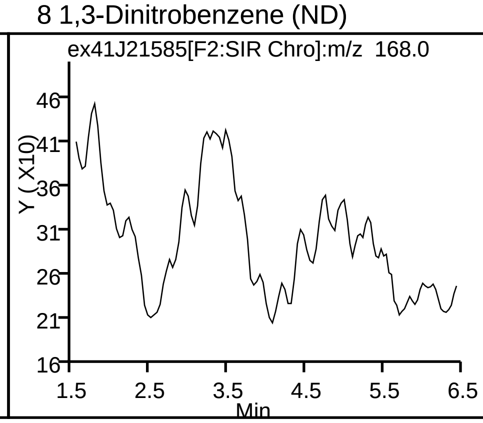
6 Tetryl (ND)



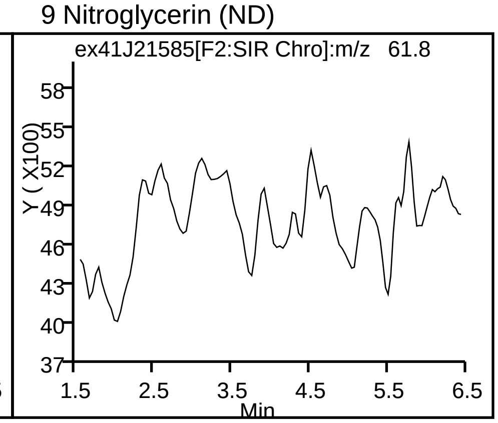
* 7 1,3-Dinitrobenzene-d4



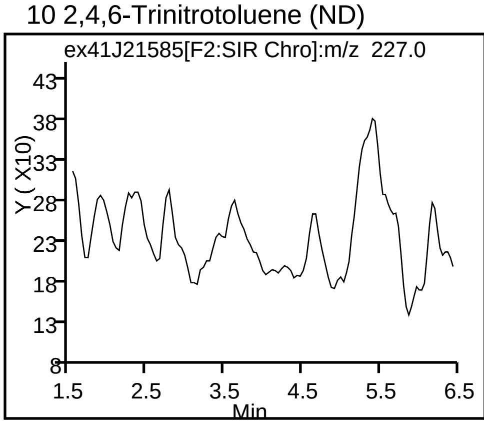
8 1,3-Dinitrobenzene (ND)



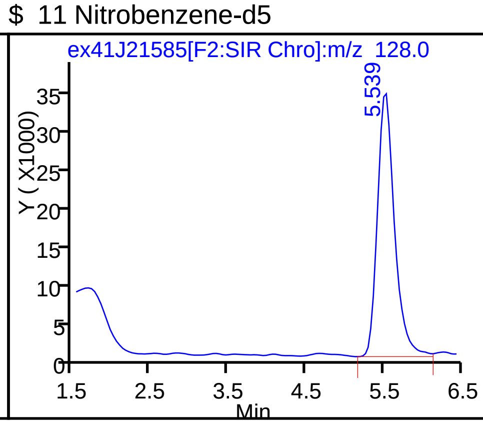
9 Nitroglycerin (ND)



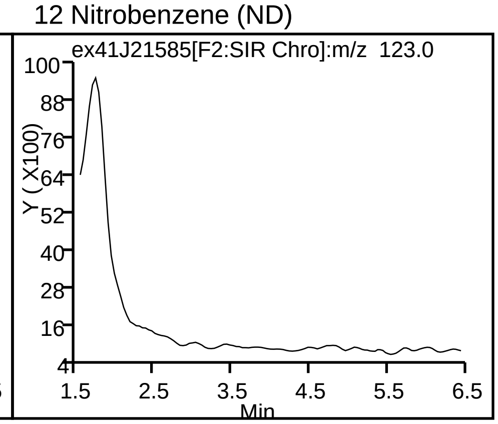
10 2,4,6-Trinitrotoluene (ND)



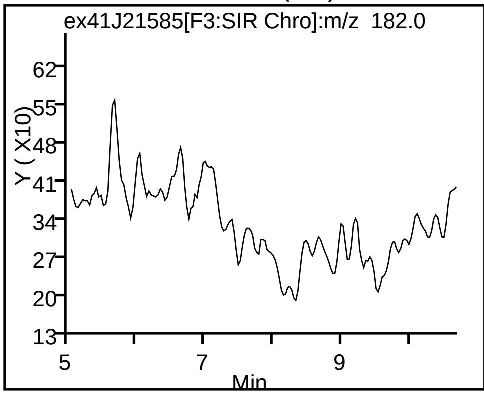
$ 11 Nitrobenzene-d5



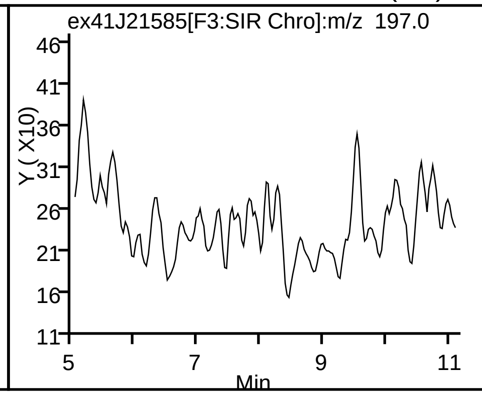
12 Nitrobenzene (ND)



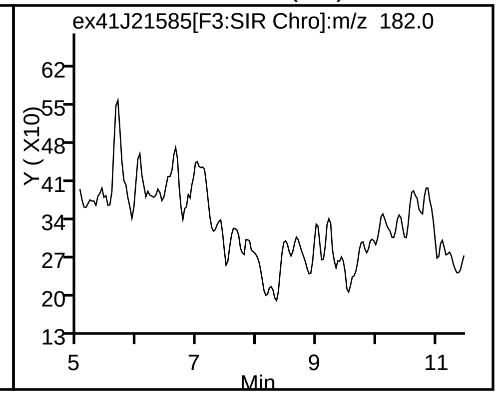
13 3,4-Dinitrotoluene (ND)



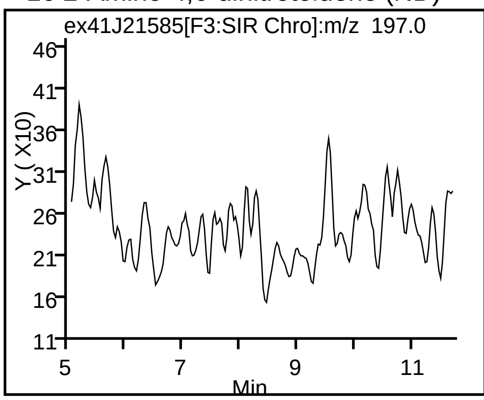
14 4-Amino-2,6-dinitrotoluene (ND)



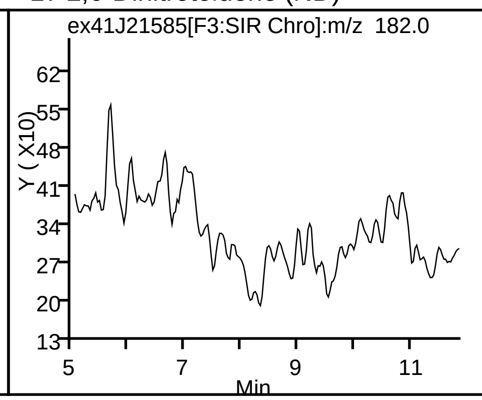
15 2,3-Dinitrotoluene (ND)



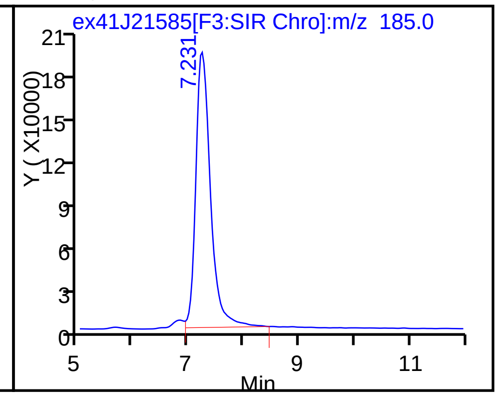
16 2-Amino-4,6-dinitrotoluene (ND)



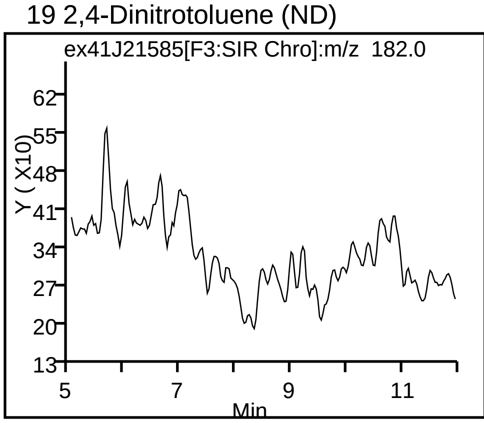
17 2,6-Dinitrotoluene (ND)



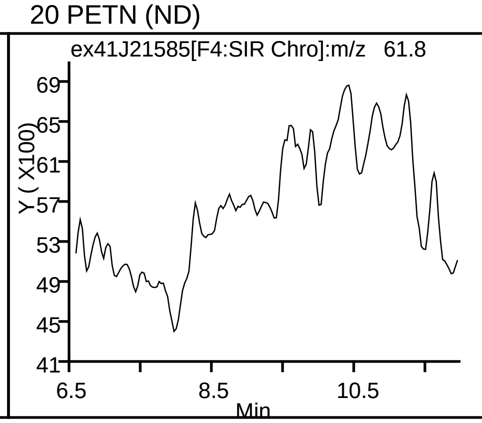
* 18 2,4-dinitrotoluene-d3



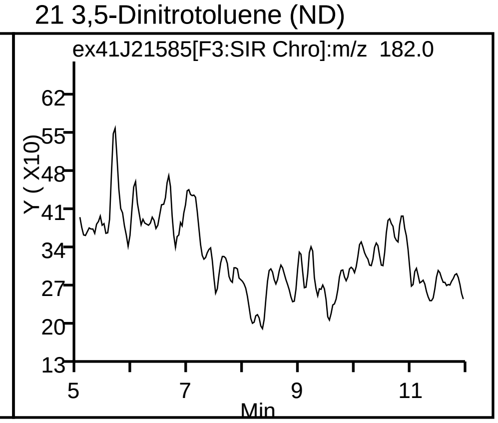
19 2,4-Dinitrotoluene (ND)



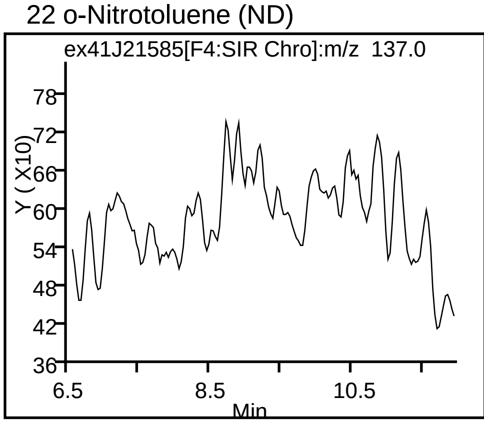
20 PETN (ND)



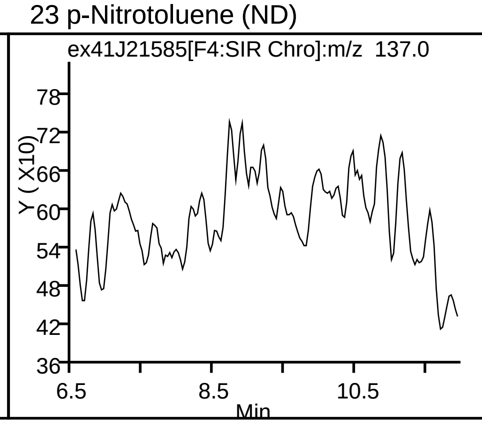
21 3,5-Dinitrotoluene (ND)



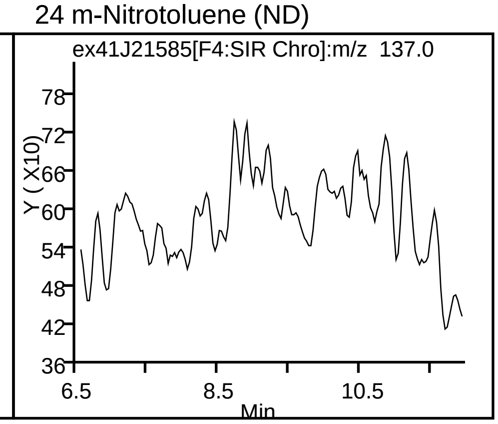
22 o-Nitrotoluene (ND)



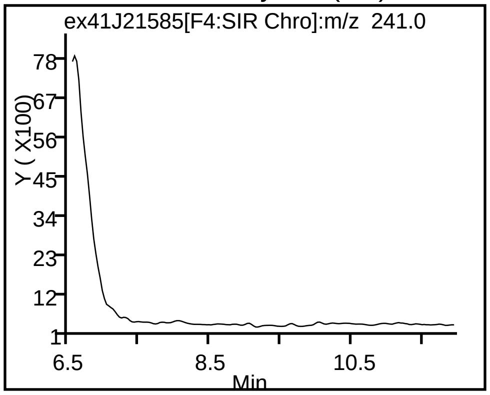
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG12 SB075 | Lab Sample ID: 280-21683-53

Matrix: Solid | Lab File ID: ex41J21589.d

Analysis Method: 8321B | Date Collected: 10/15/2011 14:40

Extraction Method: 8330B | Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.70(g) | Date Analyzed: 11/01/2011 17:53

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U Q	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0054
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.093	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0098
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21589.d		
Lims ID:	280-21683-B-53-B	Client ID:	SB075
Inject. Date:	01-Nov-2011 17:53:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-53-B 280-0002689-113		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	53
Lims Batch ID:	94193	Lims Sample ID:	113
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:47	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:42:29

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		550449	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2222412	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1415545	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	537798	76.9			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.231	-0.030		3981007	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0		8.254							
23 p-Nitrotoluene										
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

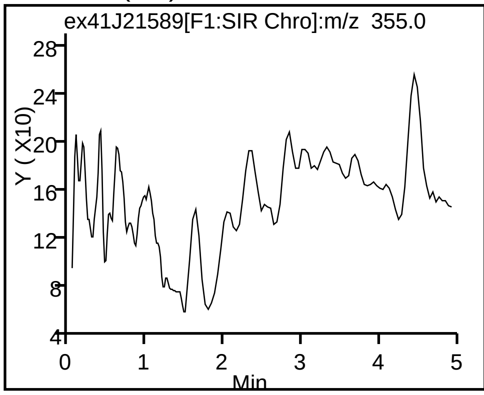
QC Flag Legend

Processing Flags
1 - Missing Peaks

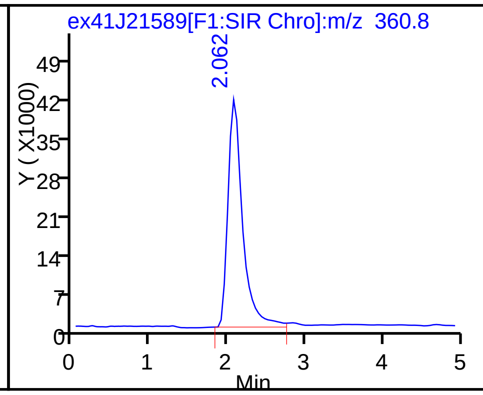
Report Date: 02-Nov-2011 06:47:49 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21589.d

Injection Date:	01-Nov-2011 17:53:00	Limit Group:	LC - 8321A Expl
Client ID:	SB075	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	113
Operator ID:		Injection Vol:	40.00 ul

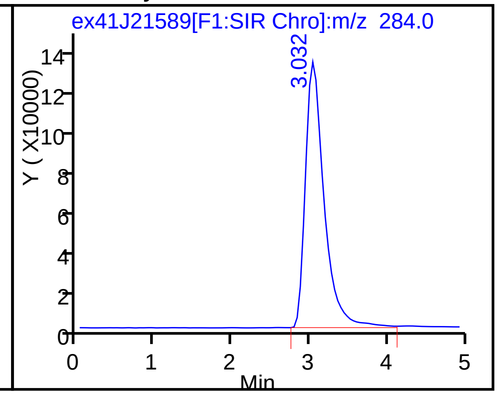
2 HMX (ND)



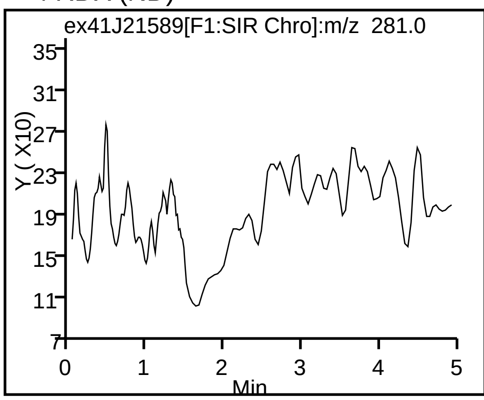
* 1 HMX-13C4



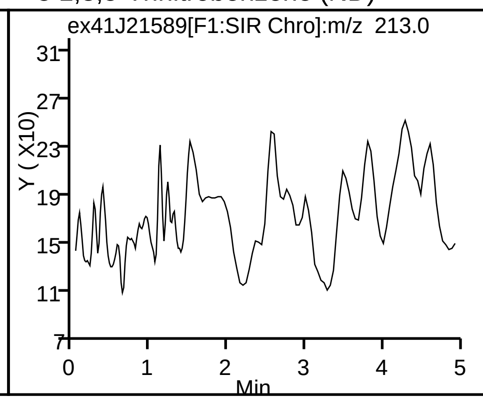
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



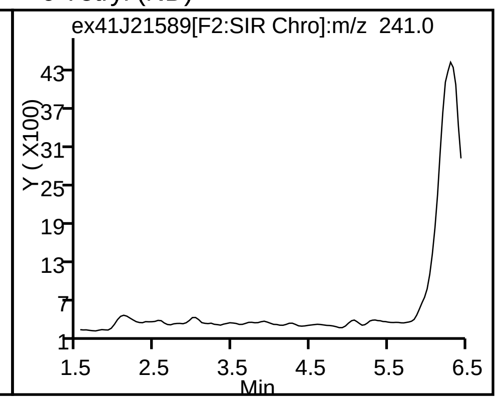
4 RDX (ND)



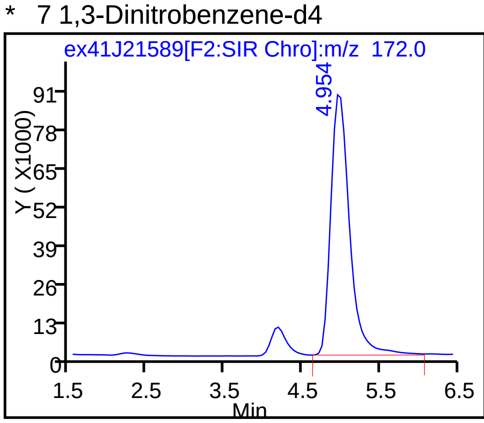
5 1,3,5-Trinitrobenzene (ND)



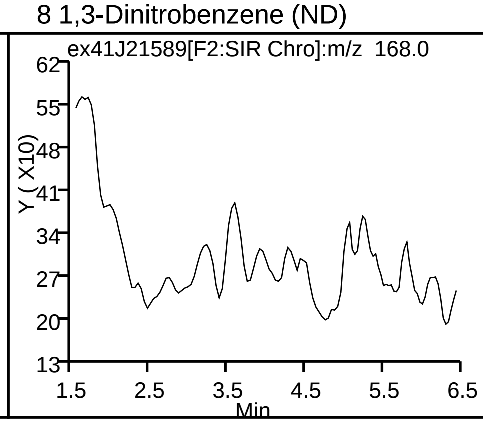
6 Tetryl (ND)



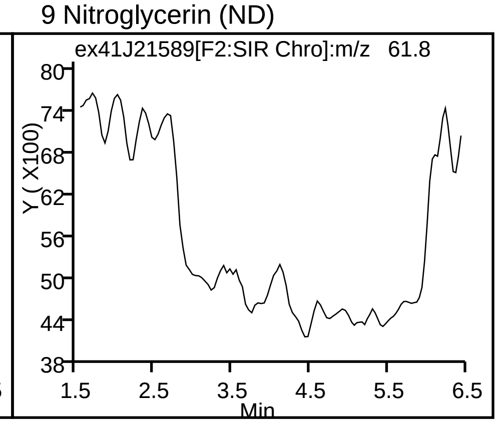
* 7 1,3-Dinitrobenzene-d4



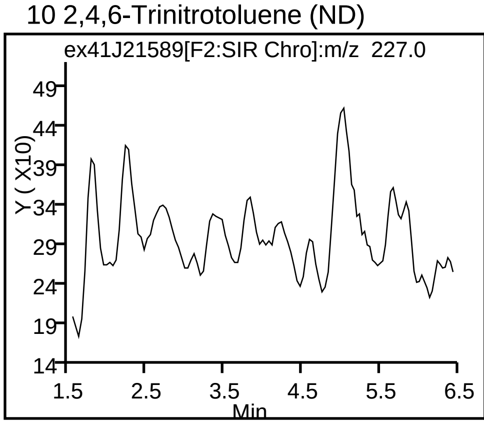
8 1,3-Dinitrobenzene (ND)



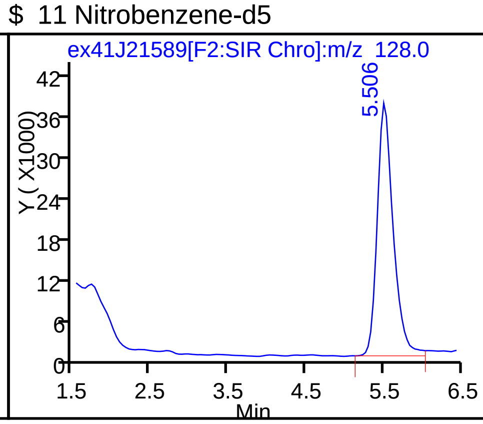
9 Nitroglycerin (ND)



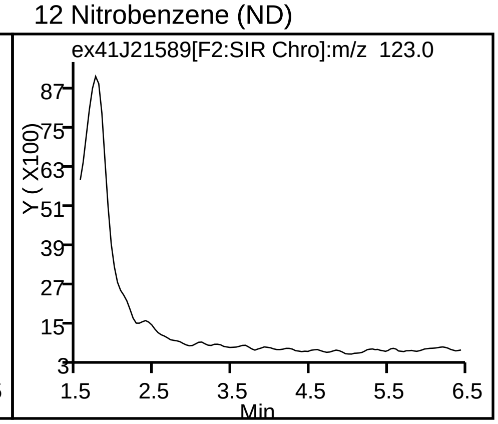
10 2,4,6-Trinitrotoluene (ND)



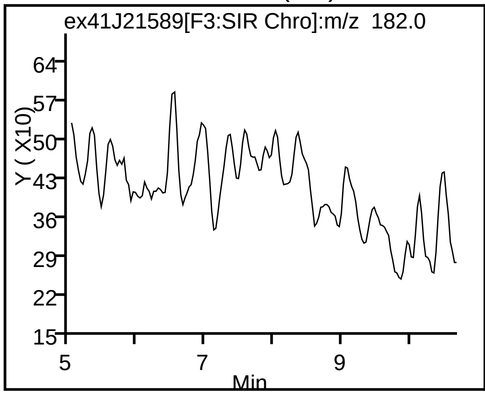
$ 11 Nitrobenzene-d5



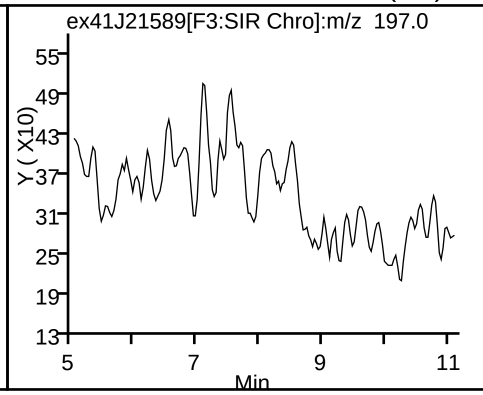
12 Nitrobenzene (ND)



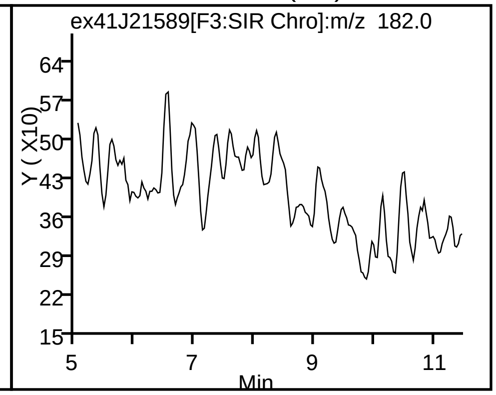
13 3,4-Dinitrotoluene (ND)



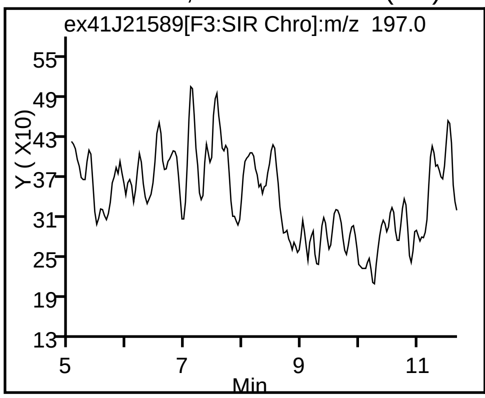
14 4-Amino-2,6-dinitrotoluene (ND)



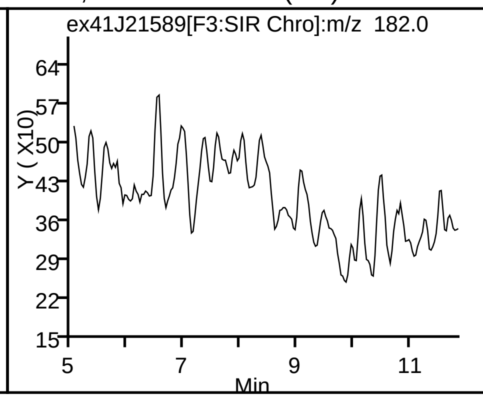
15 2,3-Dinitrotoluene (ND)



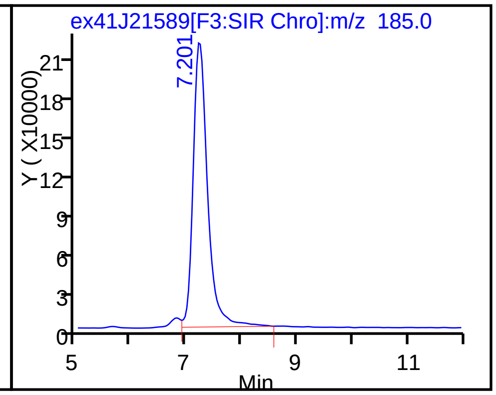
16 2-Amino-4,6-dinitrotoluene (ND)



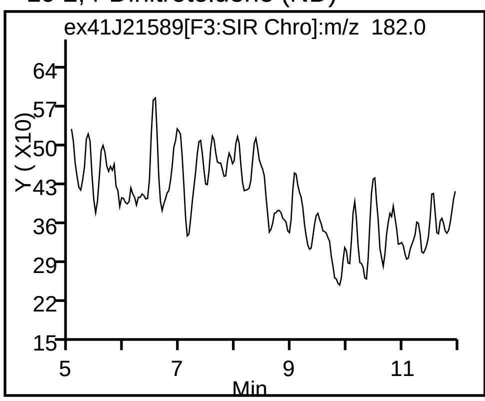
17 2,6-Dinitrotoluene (ND)



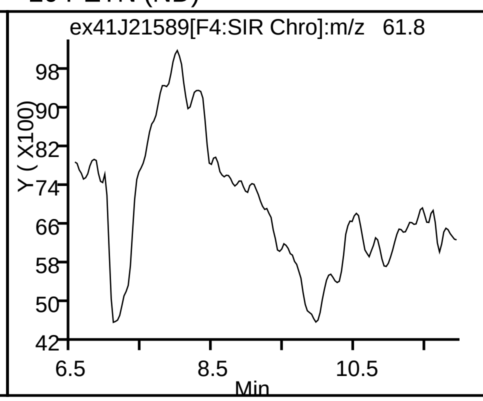
* 18 2,4-dinitrotoluene-d3



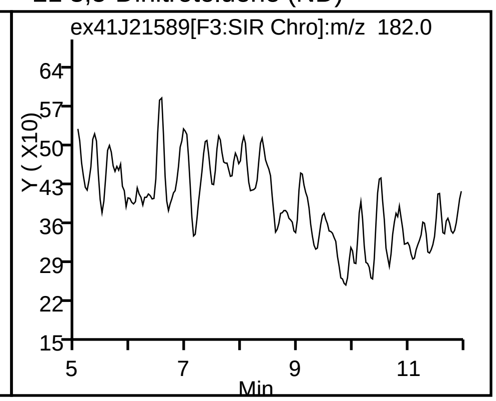
19 2,4-Dinitrotoluene (ND)



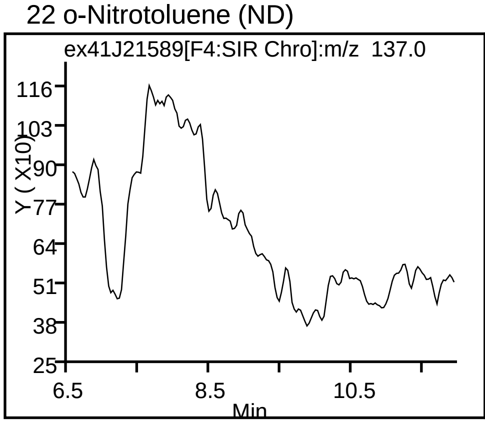
20 PETN (ND)



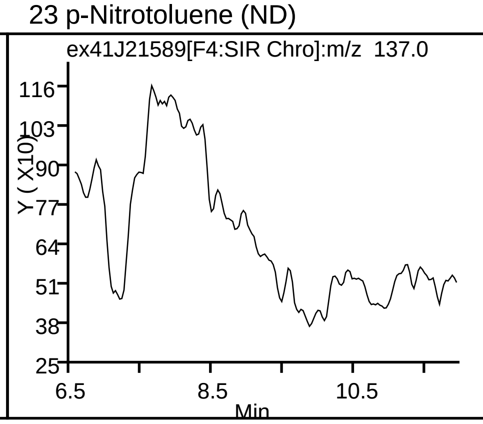
21 3,5-Dinitrotoluene (ND)



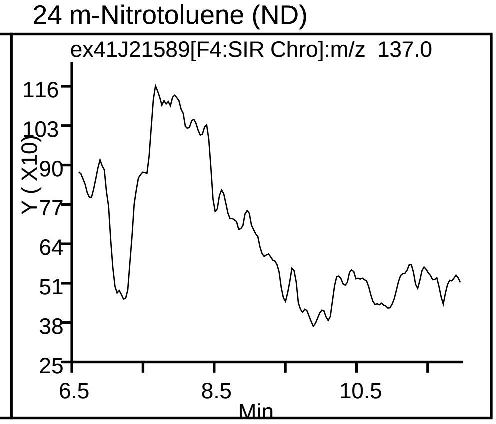
22 o-Nitrotoluene (ND)



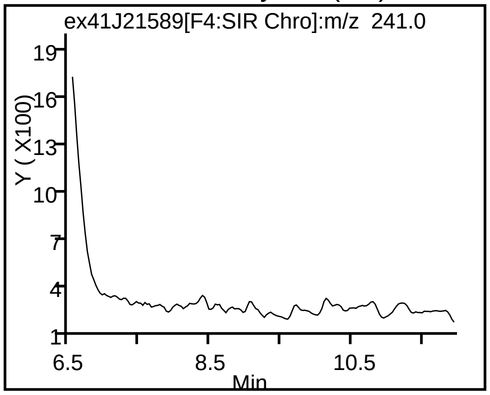
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG12 SB074 | Lab Sample ID: 280-21683-54

Matrix: Solid | Lab File ID: ex41J21590.d

Analysis Method: 8321B | Date Collected: 10/15/2011 14:43

Extraction Method: 8330B | Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.18(g) | Date Analyzed: 11/01/2011 18:06

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21590.d		
Lims ID:	280-21683-A-54-C	Client ID:	SB074
Inject. Date:	01-Nov-2011 18:06:35	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-54-C 280-0002689-114		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	54
Lims Batch ID:	94193	Lims Sample ID:	114
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:47	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		648450	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1941596	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1470071	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	557187	76.7			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3923110	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

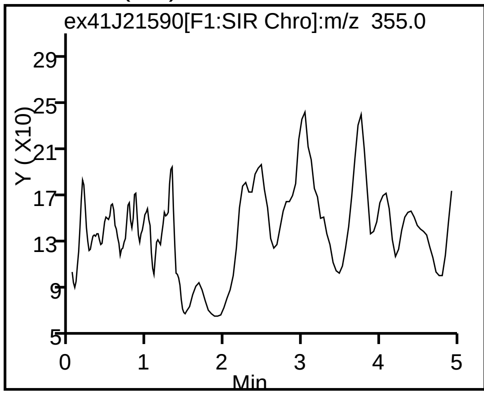
QC Flag Legend

Processing Flags
1 - Missing Peaks

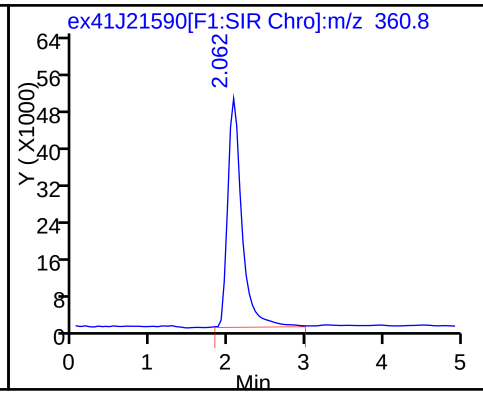
Report Date: 02-Nov-2011 06:47:50 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21590.d

Injection Date:	01-Nov-2011 18:06:35	Limit Group:	LC - 8321A Expl
Client ID:	SB074	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	114
Operator ID:		Injection Vol:	40.00 ul

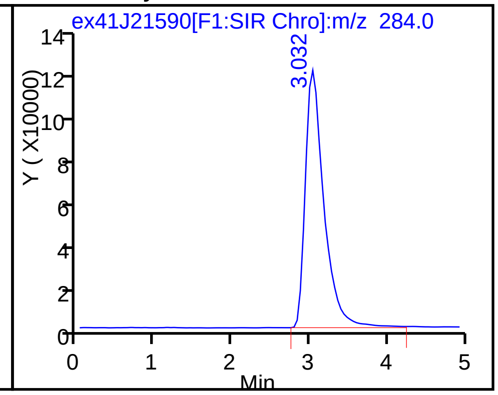
2 HMX (ND)



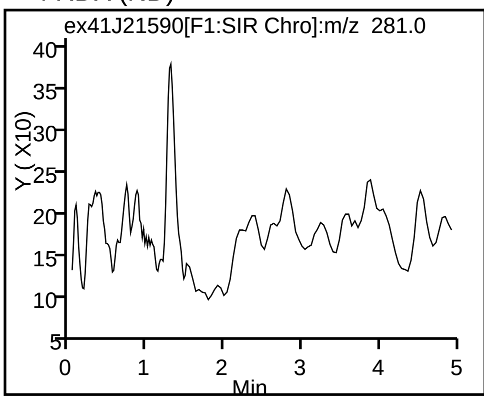
* 1 HMX-13C4



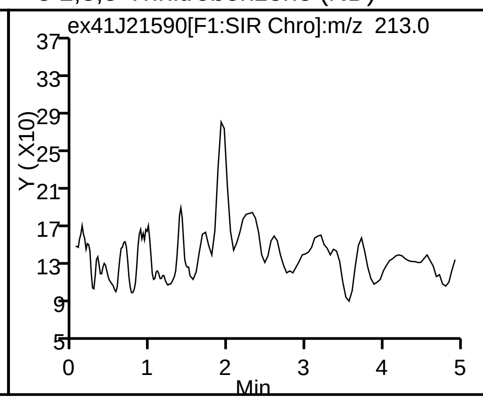
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



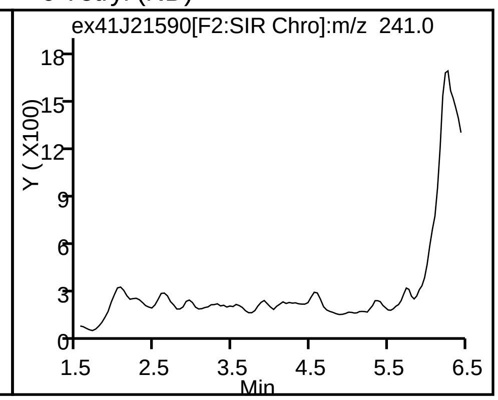
4 RDX (ND)



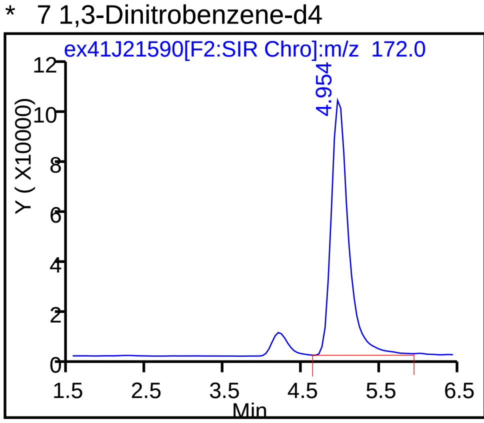
5 1,3,5-Trinitrobenzene (ND)



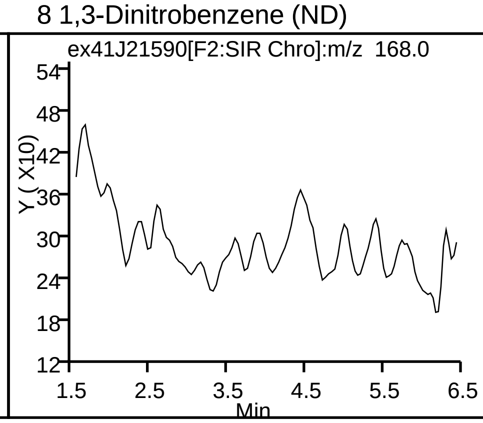
6 Tetryl (ND)



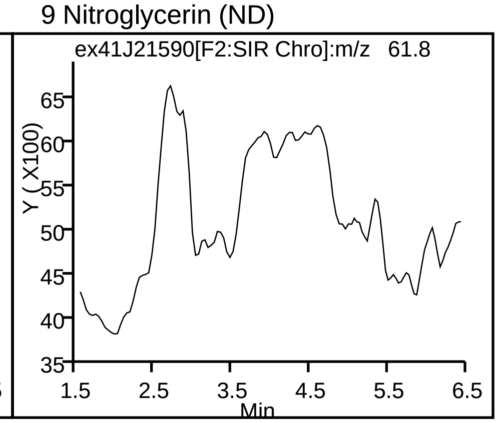
* 7 1,3-Dinitrobenzene-d4



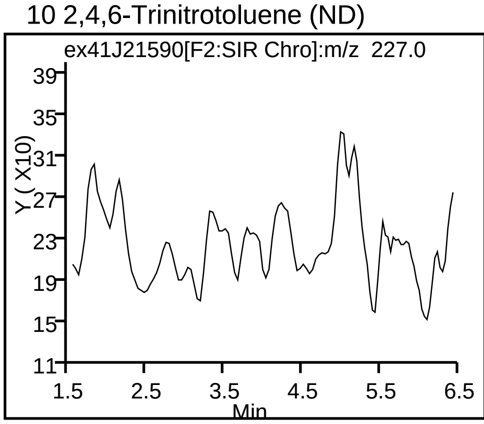
8 1,3-Dinitrobenzene (ND)



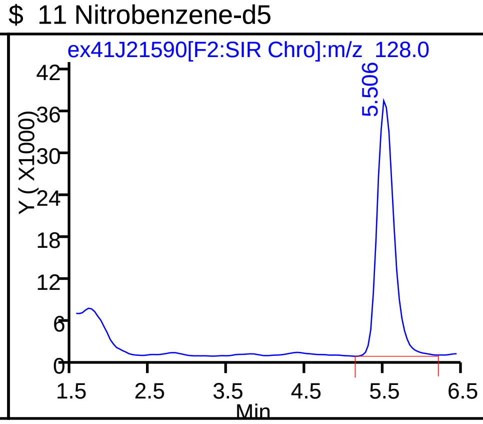
9 Nitroglycerin (ND)



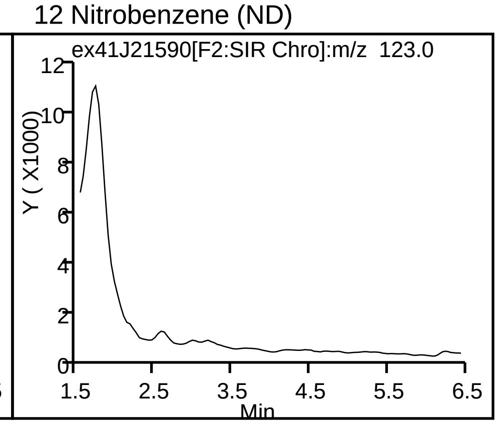
10 2,4,6-Trinitrotoluene (ND)



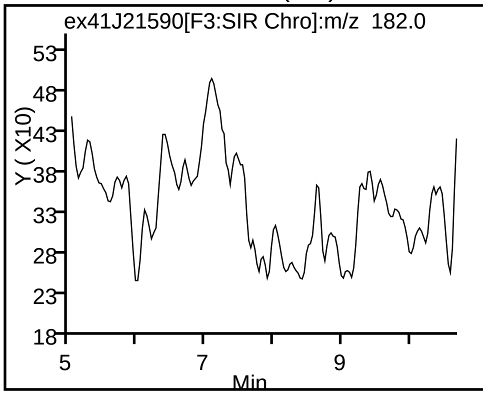
$ 11 Nitrobenzene-d5



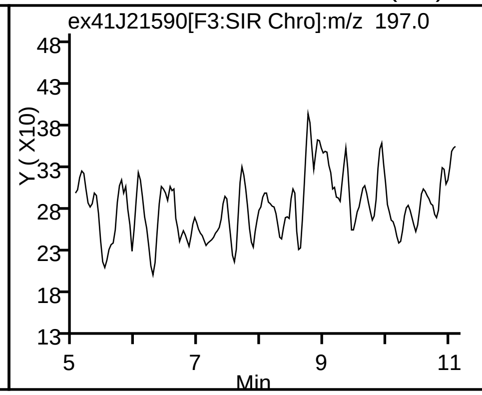
12 Nitrobenzene (ND)



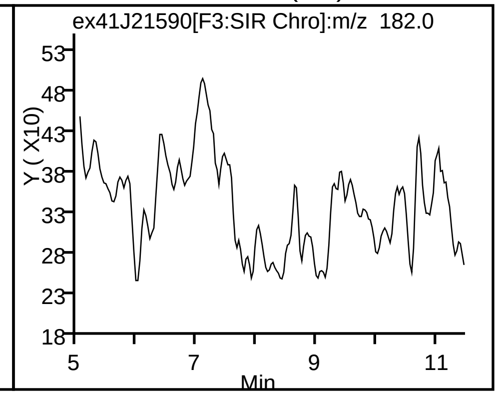
13 3,4-Dinitrotoluene (ND)



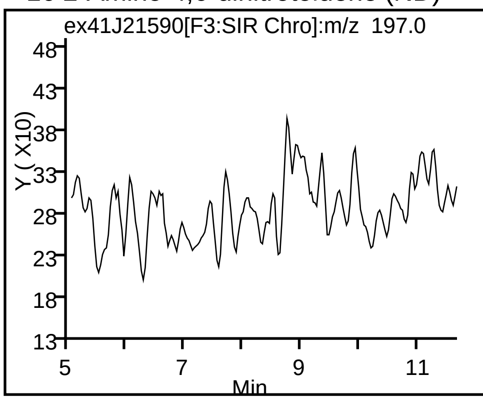
14 4-Amino-2,6-dinitrotoluene (ND)



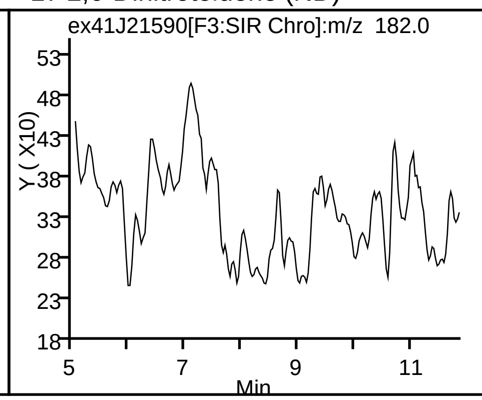
15 2,3-Dinitrotoluene (ND)



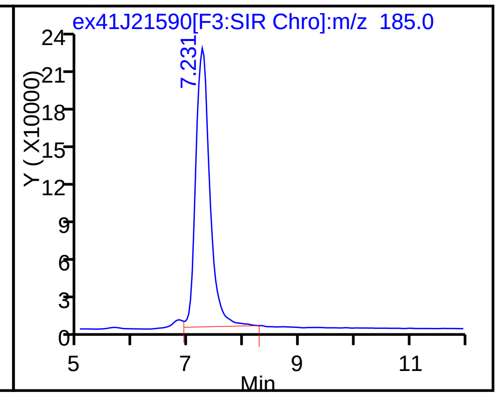
16 2-Amino-4,6-dinitrotoluene (ND)



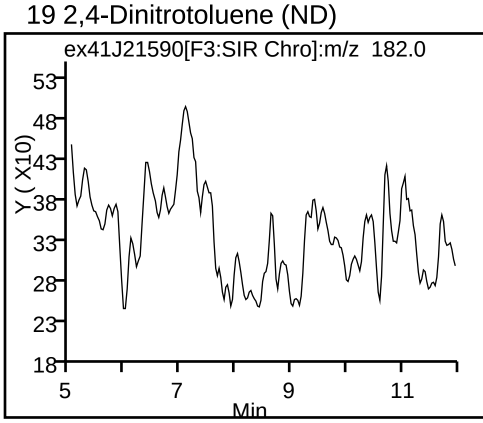
17 2,6-Dinitrotoluene (ND)



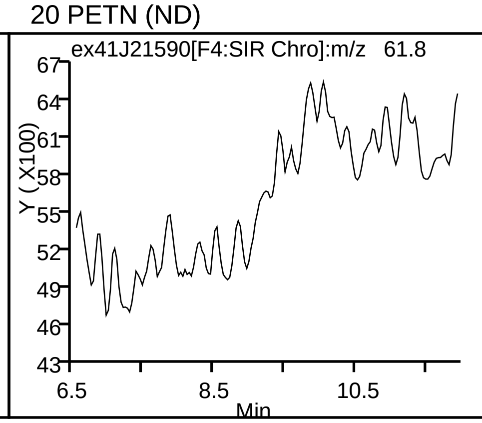
* 18 2,4-dinitrotoluene-d3



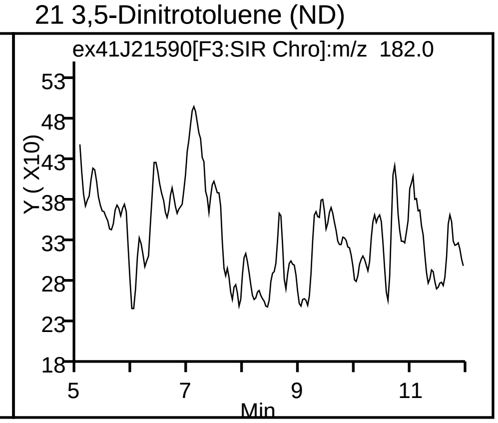
19 2,4-Dinitrotoluene (ND)



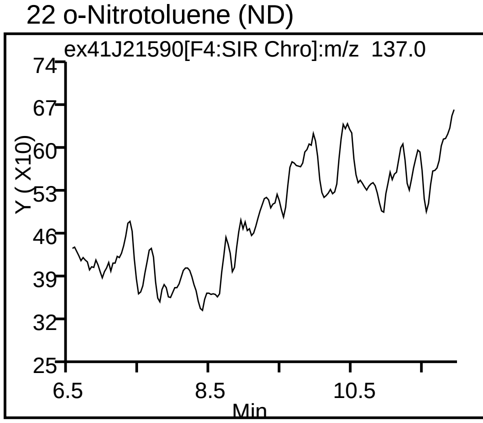
20 PETN (ND)



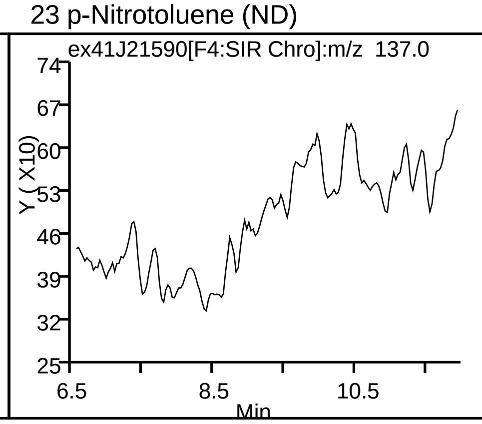
21 3,5-Dinitrotoluene (ND)



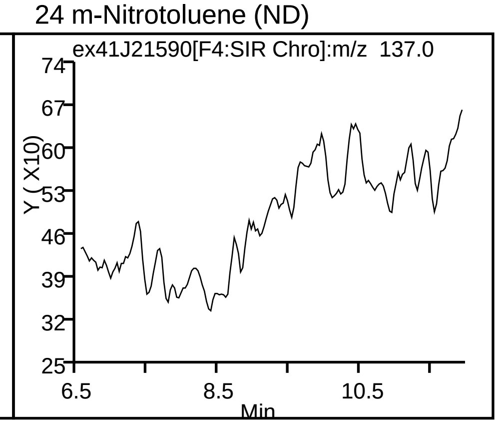
22 o-Nitrotoluene (ND)



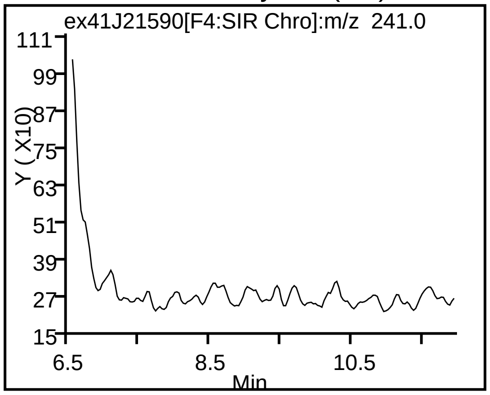
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name:	TestAmerica Denver	Job No.:	280-21683-1
SDG No.:			
Client Sample ID:	MG11 SB071	Lab Sample ID:	280-21683-55
Matrix:	Solid	Lab File ID:	ex41J21593.d
Analysis Method:	8321B	Date Collected:	10/15/2011 14:55
Extraction Method:	8330B	Date Extracted:	10/19/2011 19:21
Sample wt/vol:	10.32(g)	Date Analyzed:	11/01/2011 18:47
Con. Extract Vol.:	40(mL)	Dilution Factor:	1
Injection Volume:	40(uL)	GC Column:	IonPac ID: 2(mm)
% Moisture:		GPC Cleanup:(Y/N)	N
Analysis Batch No.:	94193	Units:	mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	84		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21593.d		
Lims ID:	280-21683-A-55-C	Client ID:	SB071
Inject. Date:	01-Nov-2011 18:47:17	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-55-C 280-0002689-117		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	57
Lims Batch ID:	94193	Lims Sample ID:	117
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:47	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		644428	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1860904	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1170713	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	479184	82.9			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3749522	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

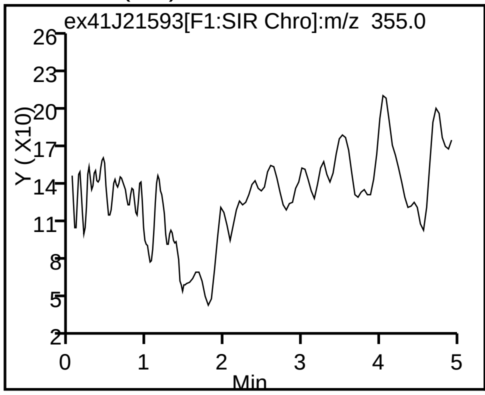
QC Flag Legend

Processing Flags
1 - Missing Peaks

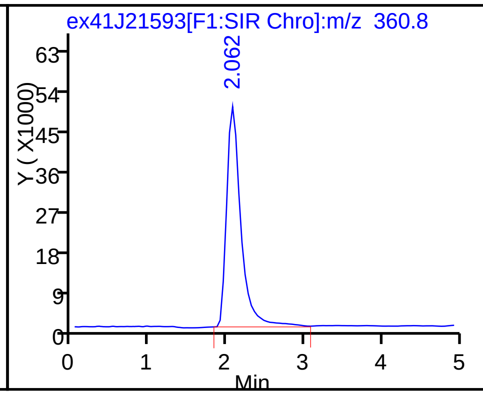
Report Date: 02-Nov-2011 06:47:52 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21593.d

Injection Date:	01-Nov-2011 18:47:17	Limit Group:	LC - 8321A Expl
Client ID:	SB071	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	117
Operator ID:		Injection Vol:	40.00 ul

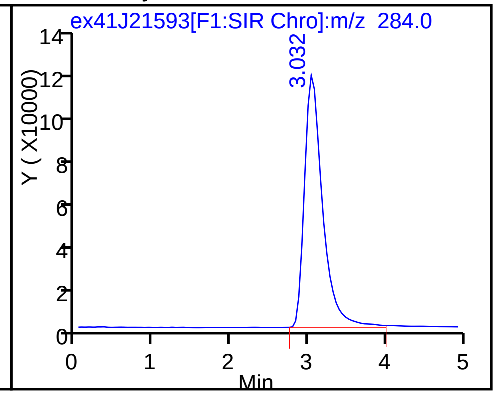
2 HMX (ND)



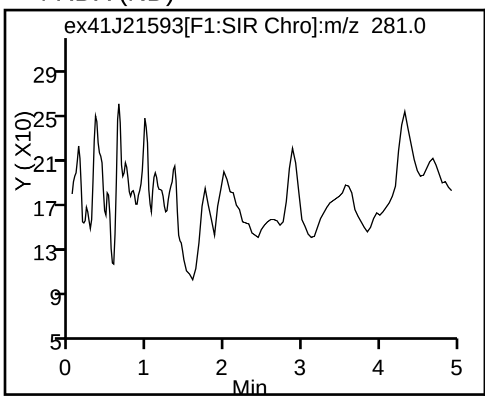
* 1 HMX-13C4



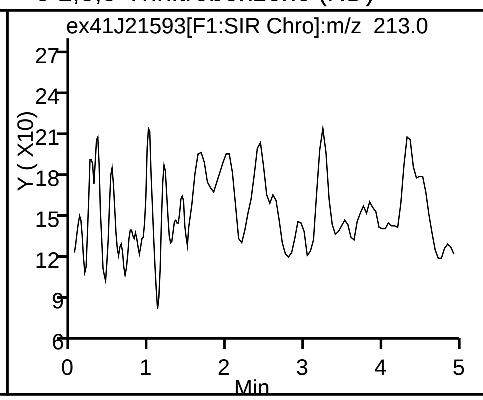
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



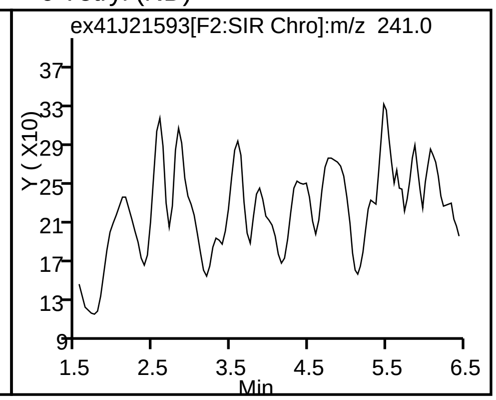
4 RDX (ND)



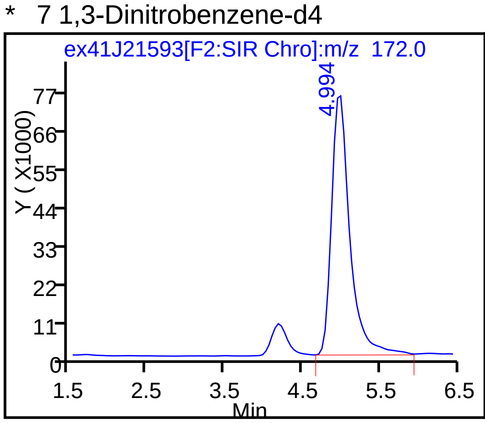
5 1,3,5-Trinitrobenzene (ND)



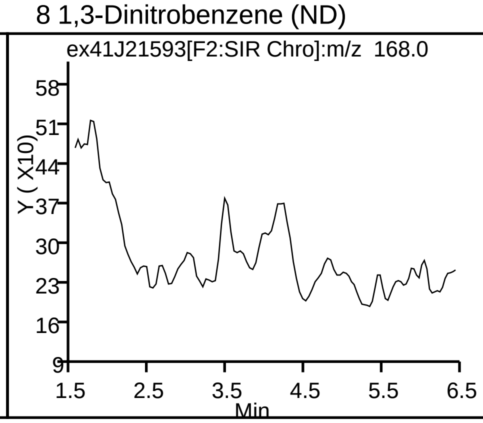
6 Tetryl (ND)



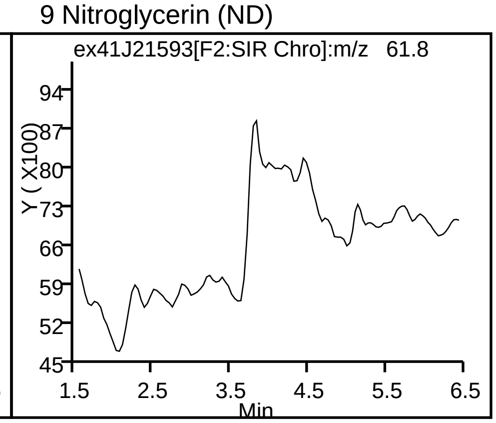
* 7 1,3-Dinitrobenzene-d4



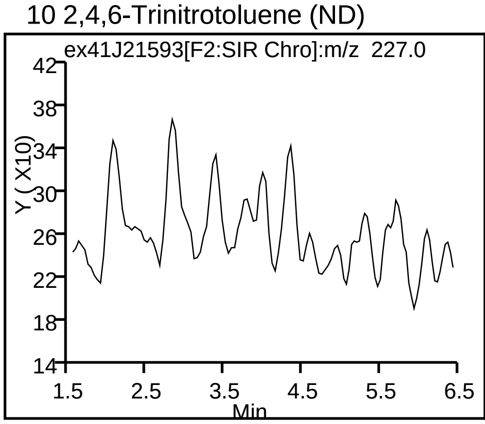
8 1,3-Dinitrobenzene (ND)



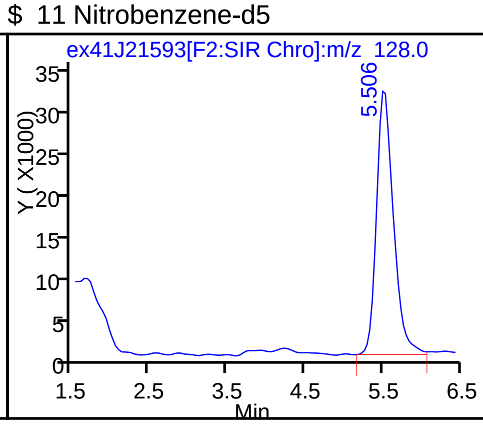
9 Nitroglycerin (ND)



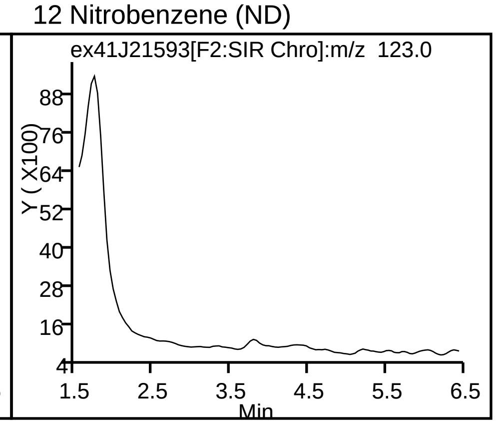
10 2,4,6-Trinitrotoluene (ND)



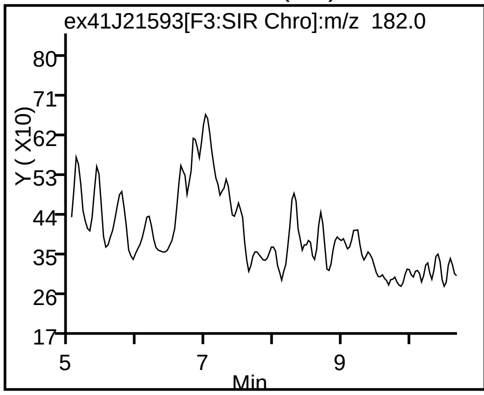
$ 11 Nitrobenzene-d5



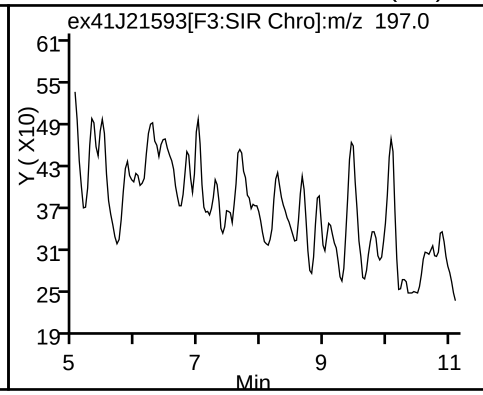
12 Nitrobenzene (ND)



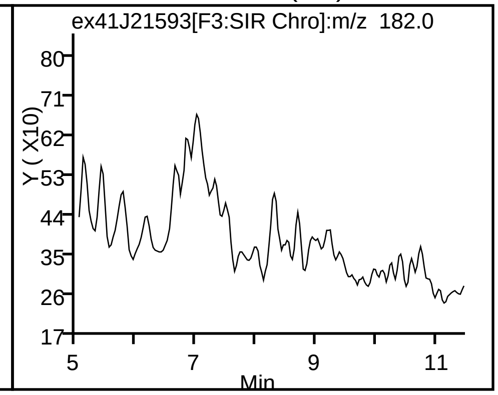
13 3,4-Dinitrotoluene (ND)



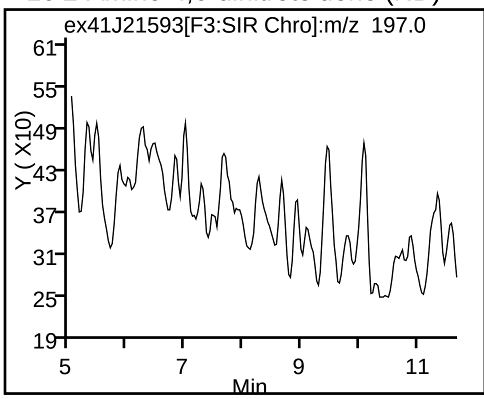
14 4-Amino-2,6-dinitrotoluene (ND)



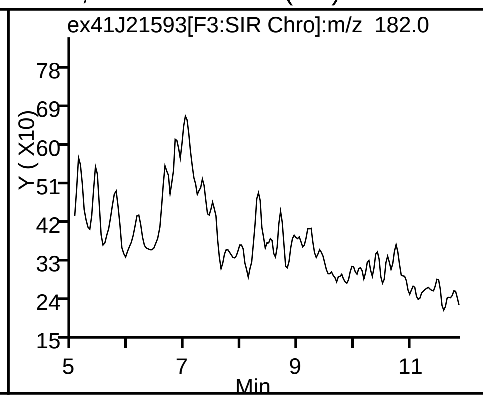
15 2,3-Dinitrotoluene (ND)



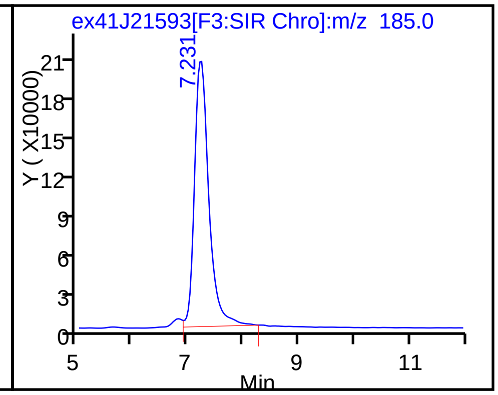
16 2-Amino-4,6-dinitrotoluene (ND)



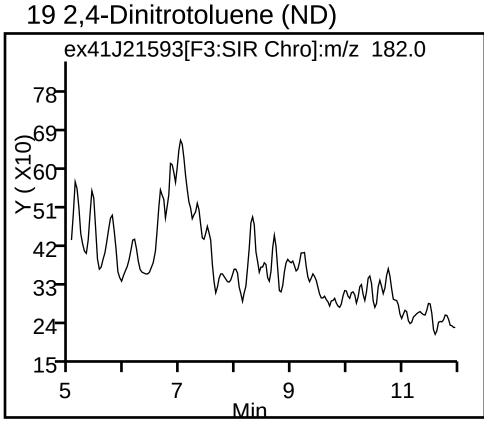
17 2,6-Dinitrotoluene (ND)



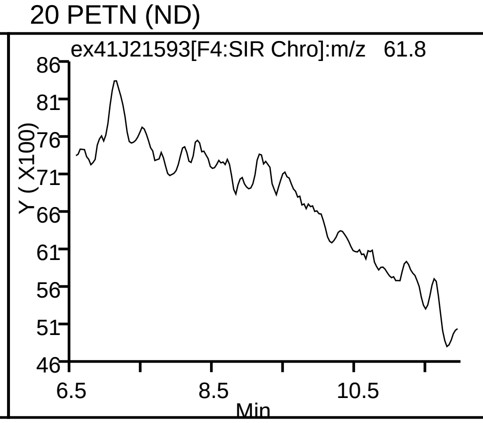
* 18 2,4-dinitrotoluene-d3



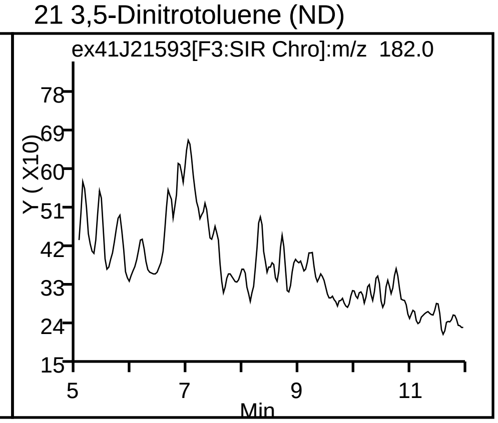
19 2,4-Dinitrotoluene (ND)



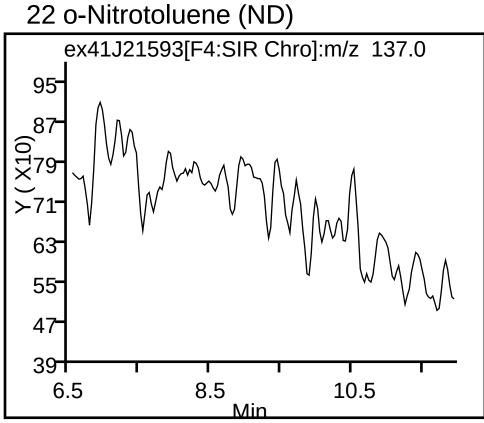
20 PETN (ND)



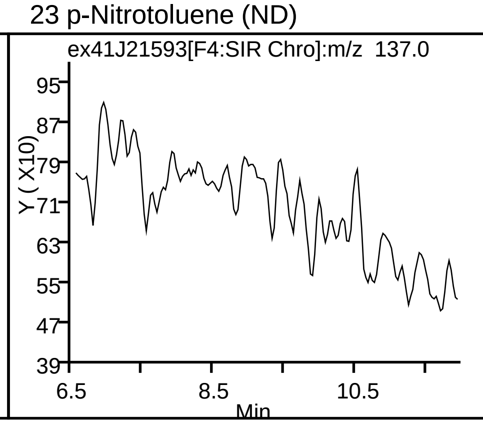
21 3,5-Dinitrotoluene (ND)



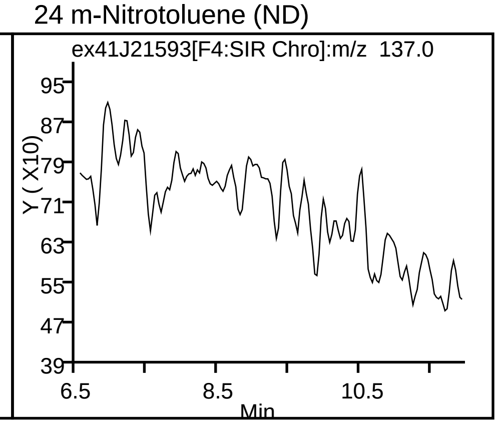
22 o-Nitrotoluene (ND)



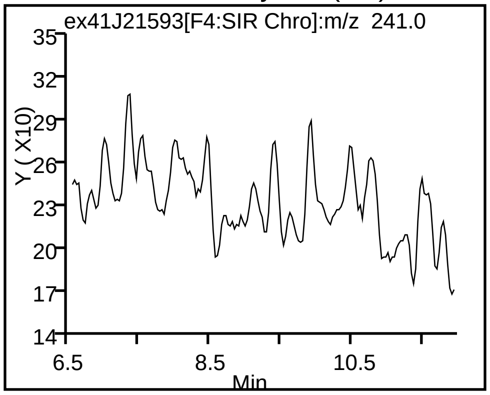
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG11 SB072   Lab Sample ID: 280-21683-56

Matrix: Solid   Lab File ID: ex41J21594.d

Analysis Method: 8321B   Date Collected: 10/15/2011 14:57

Extraction Method: 8330B   Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.52(g)   Date Analyzed: 11/01/2011 19:00

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	91		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21594.d		
Lims ID:	280-21683-A-56-C	Client ID:	SB072
Inject. Date:	01-Nov-2011 19:00:51	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-56-C 280-0002689-118		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	58
Lims Batch ID:	94193	Lims Sample ID:	118
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:47	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:43:38

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		623995	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2224038	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1274561	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.118	568572	90.4			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3502307	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

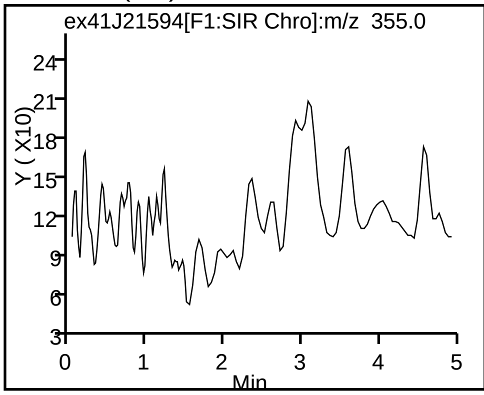
QC Flag Legend

Processing Flags
1 - Missing Peaks

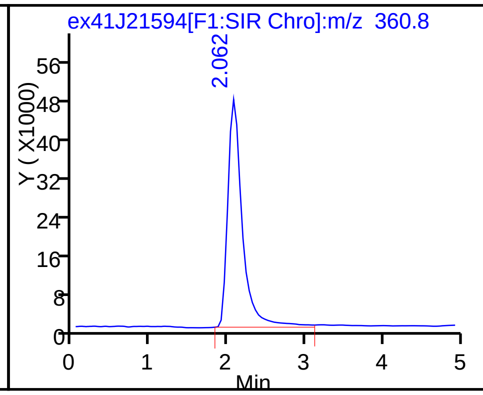
Report Date: 02-Nov-2011 06:47:52 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21594.d

Injection Date:	01-Nov-2011 19:00:51	Limit Group:	LC - 8321A Expl
Client ID:	SB072	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	118
Operator ID:		Injection Vol:	40.00 ul

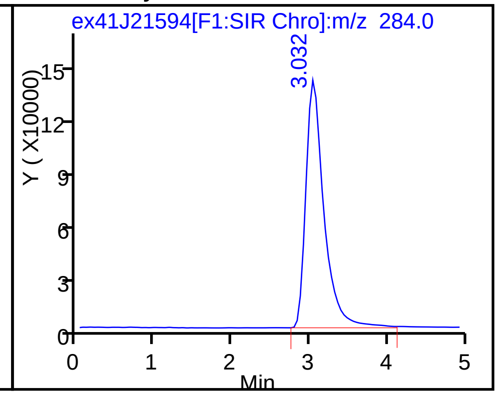
2 HMX (ND)



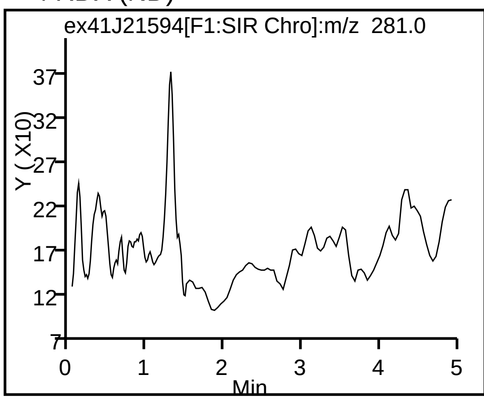
* 1 HMX-13C4



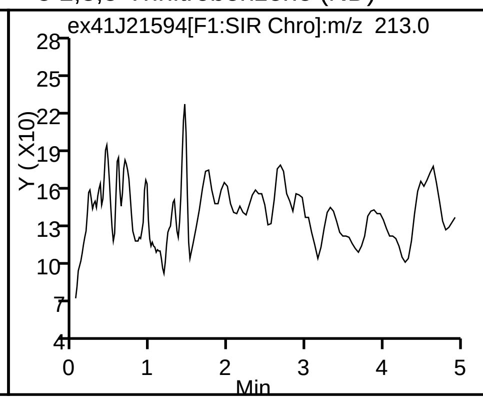
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



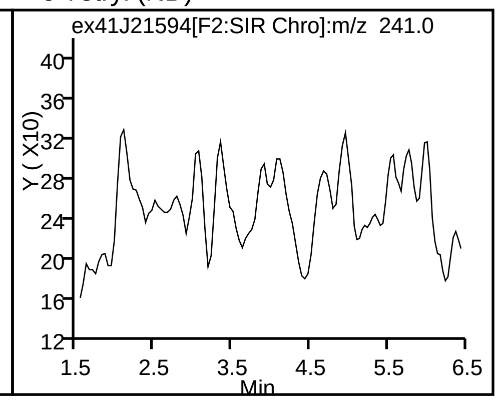
4 RDX (ND)



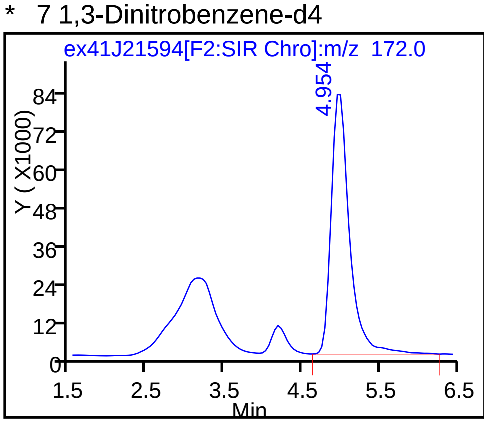
5 1,3,5-Trinitrobenzene (ND)



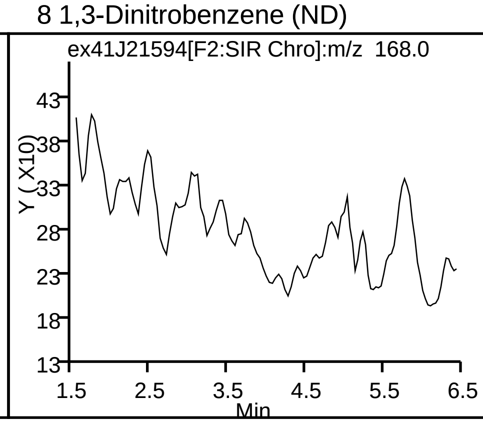
6 Tetryl (ND)



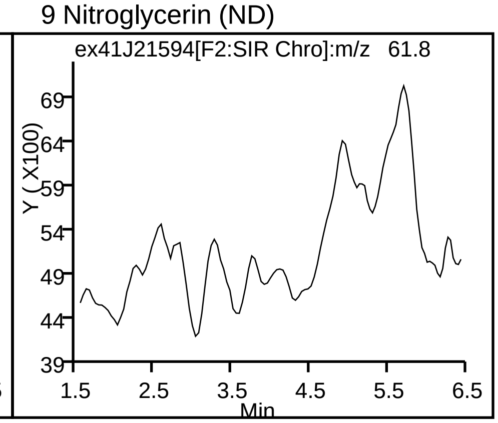
* 7 1,3-Dinitrobenzene-d4



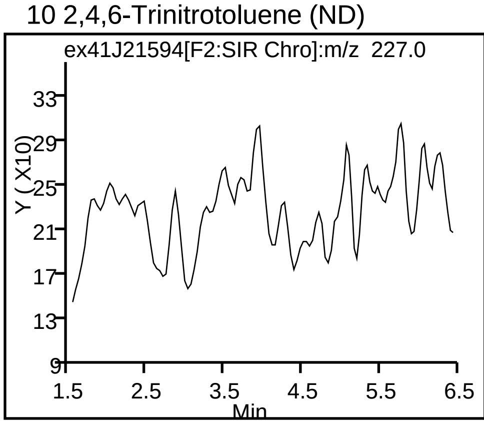
8 1,3-Dinitrobenzene (ND)



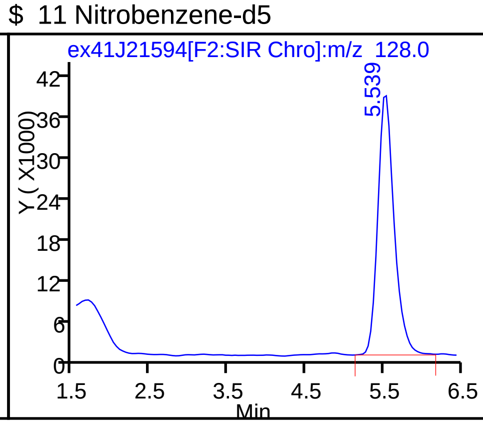
9 Nitroglycerin (ND)



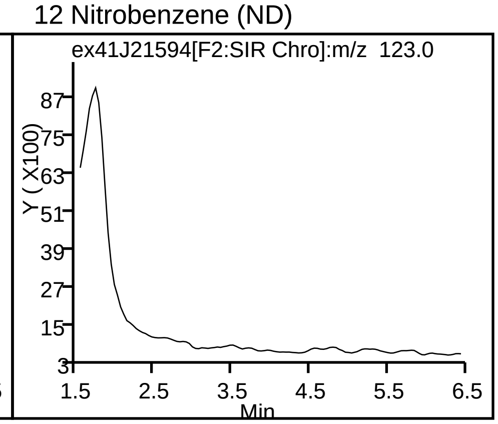
10 2,4,6-Trinitrotoluene (ND)



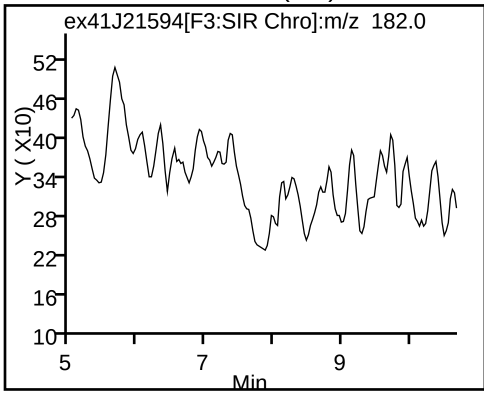
$ 11 Nitrobenzene-d5



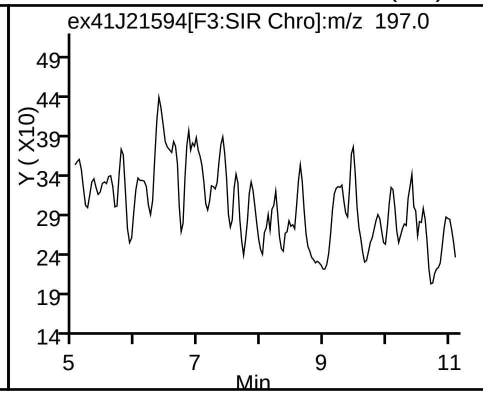
12 Nitrobenzene (ND)



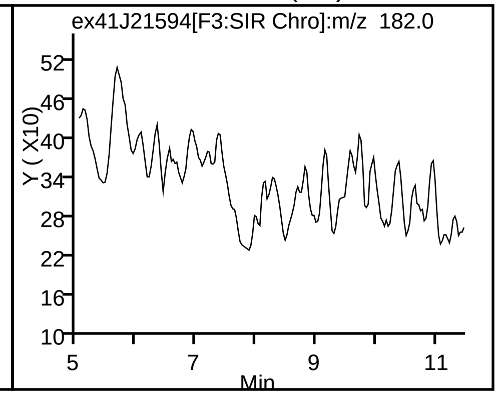
13 3,4-Dinitrotoluene (ND)



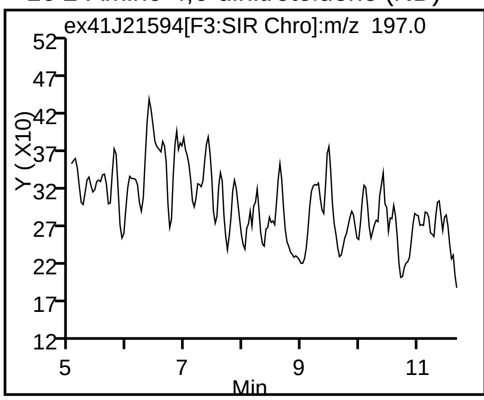
14 4-Amino-2,6-dinitrotoluene (ND)



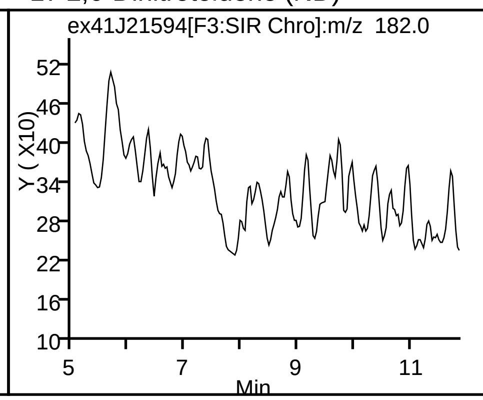
15 2,3-Dinitrotoluene (ND)



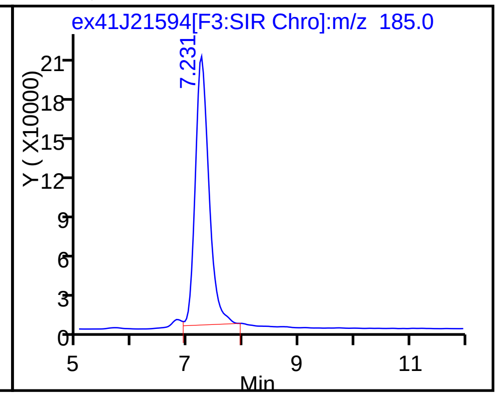
16 2-Amino-4,6-dinitrotoluene (ND)



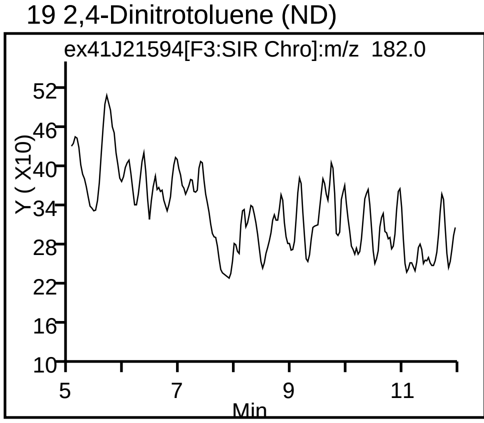
17 2,6-Dinitrotoluene (ND)



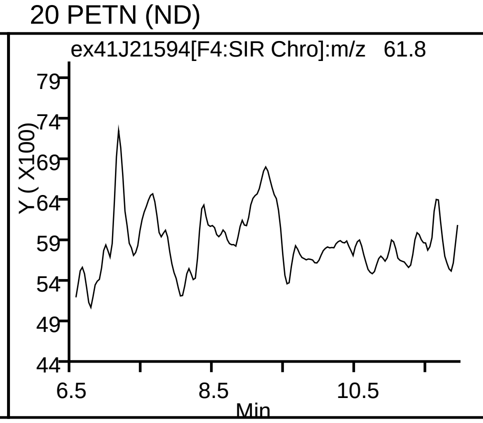
* 18 2,4-dinitrotoluene-d3



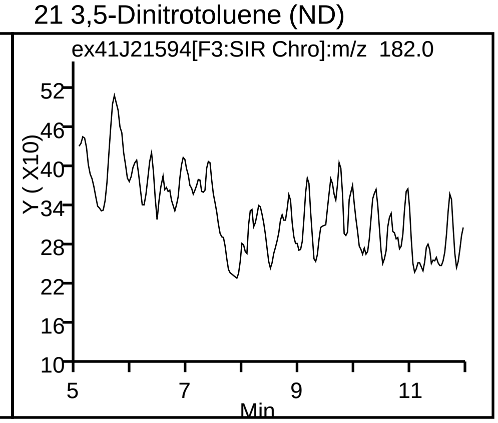
19 2,4-Dinitrotoluene (ND)



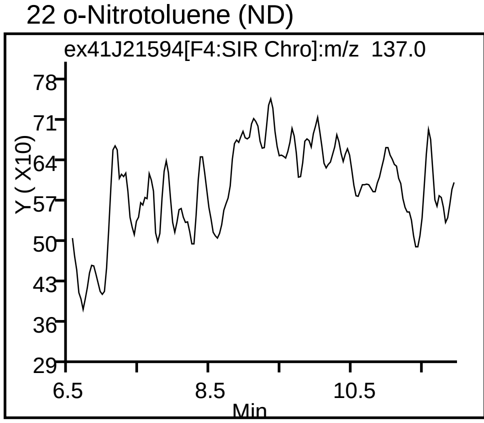
20 PETN (ND)



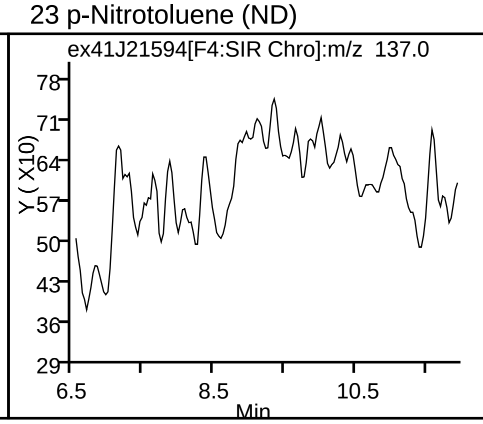
21 3,5-Dinitrotoluene (ND)



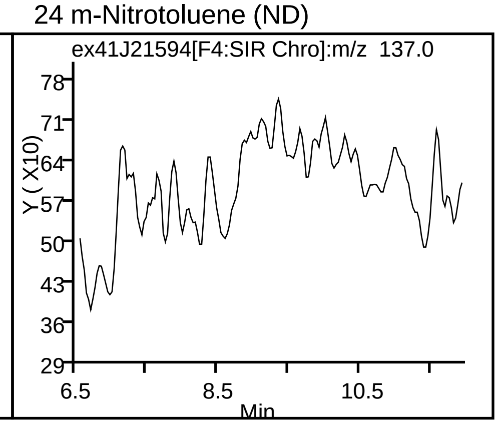
22 o-Nitrotoluene (ND)



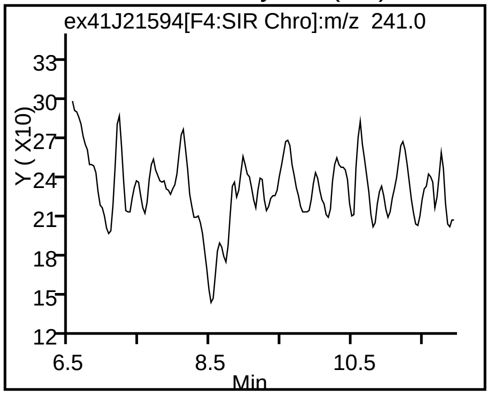
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG14 SB079   Lab Sample ID: 280-21683-57

Matrix: Solid   Lab File ID: ex41J21596.d

Analysis Method: 8321B   Date Collected: 10/15/2011 15:12

Extraction Method: 8330B   Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.05(g)   Date Analyzed: 11/01/2011 19:28

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21596.d
Lims ID: 280-21683-B-57-B Client ID: SB079
Inject. Date: 01-Nov-2011 19:28:15 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-21683-B-57-B 280-0002689-120
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 59
Lims Batch ID: 94193 Lims Sample ID: 120
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m
Last Update: 02-Nov-2011 06:47:53 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		706127	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2226659	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1306396	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	522887	81.0			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

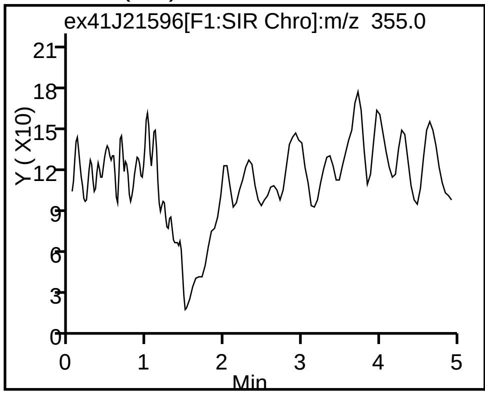
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3876119	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

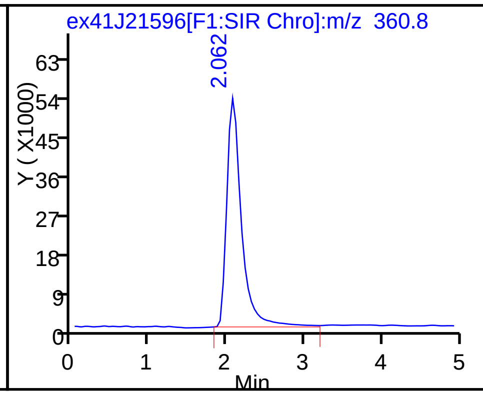
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:47:55		Chrom Revision: 1.2 13-Jul-2011 10:43:06	
Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21596.d		
Injection Date:	01-Nov-2011 19:28:15	Limit Group:	LC - 8321A Expl
Client ID:	SB079	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	120
Operator ID:		Injection Vol:	40.00 ul

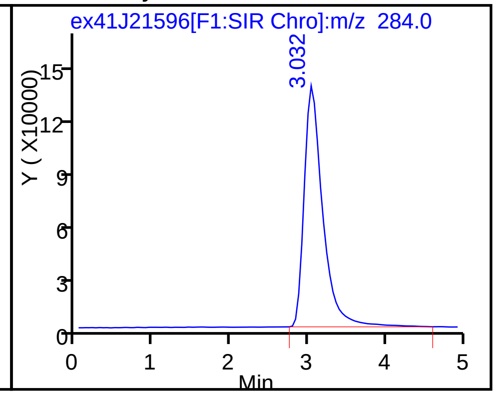
2 HMX (ND)



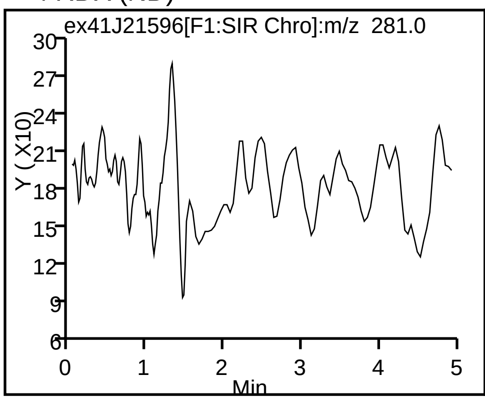
* 1 HMX-13C4



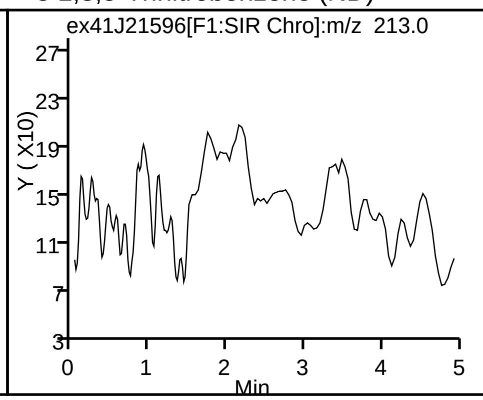
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



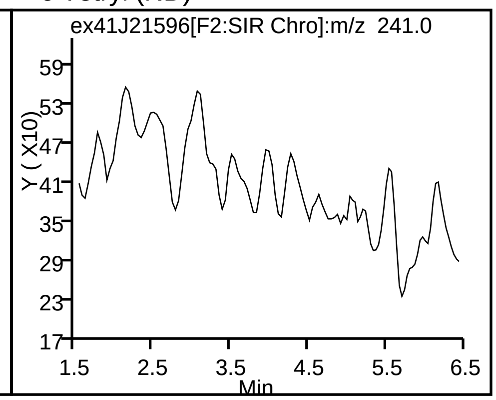
4 RDX (ND)



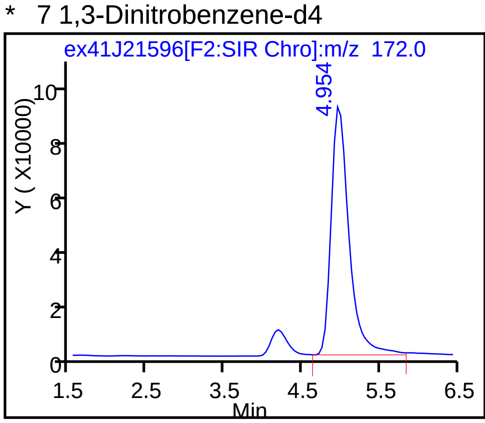
5 1,3,5-Trinitrobenzene (ND)



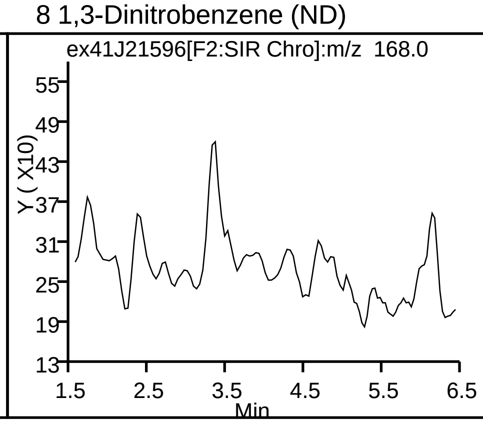
6 Tetryl (ND)



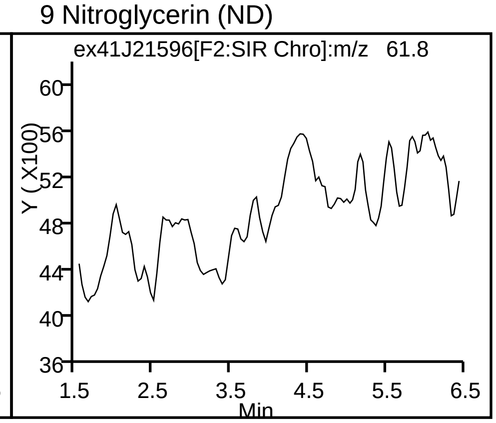
* 7 1,3-Dinitrobenzene-d4



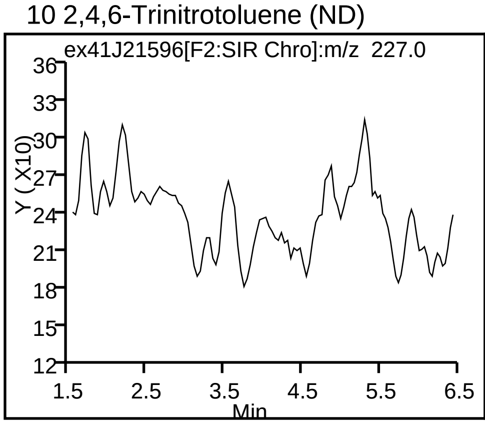
8 1,3-Dinitrobenzene (ND)



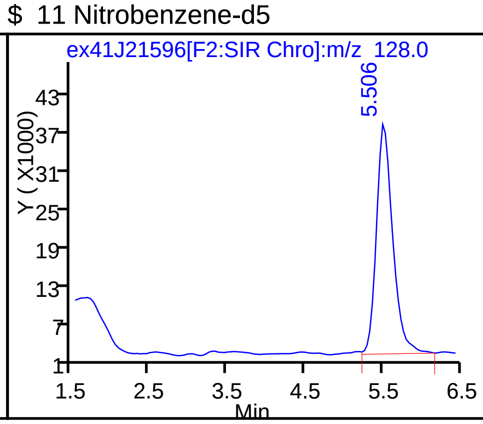
9 Nitroglycerin (ND)



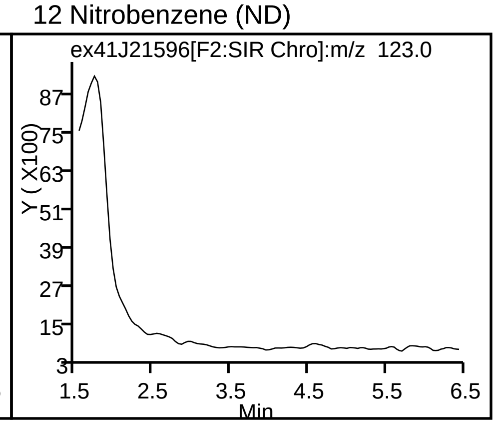
10 2,4,6-Trinitrotoluene (ND)



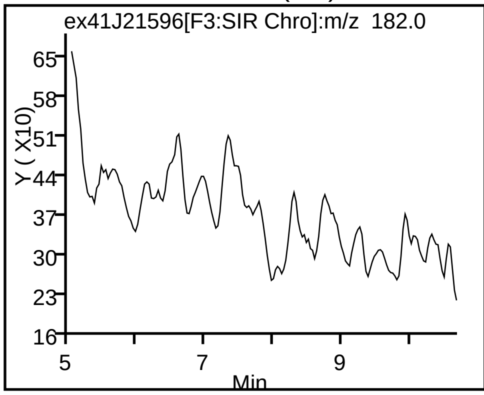
$ 11 Nitrobenzene-d5



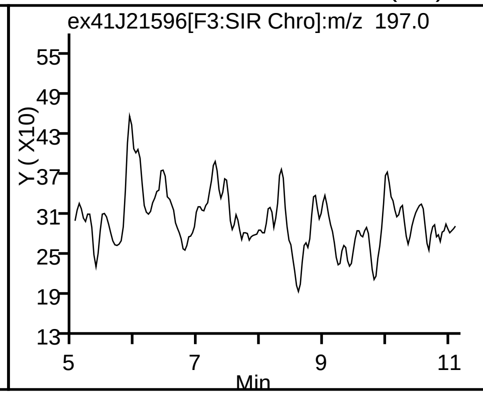
12 Nitrobenzene (ND)



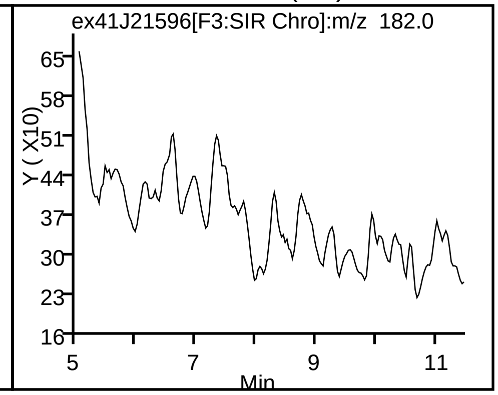
13 3,4-Dinitrotoluene (ND)



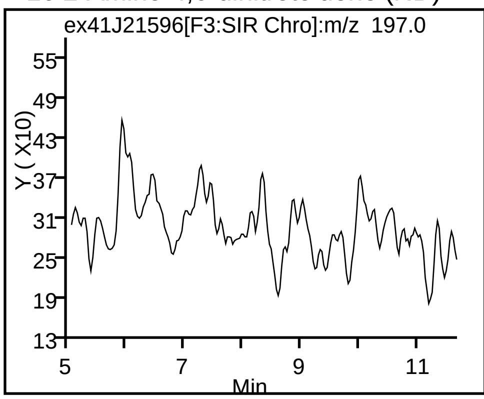
14 4-Amino-2,6-dinitrotoluene (ND)



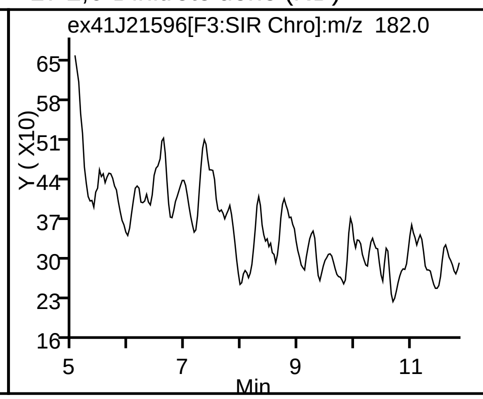
15 2,3-Dinitrotoluene (ND)



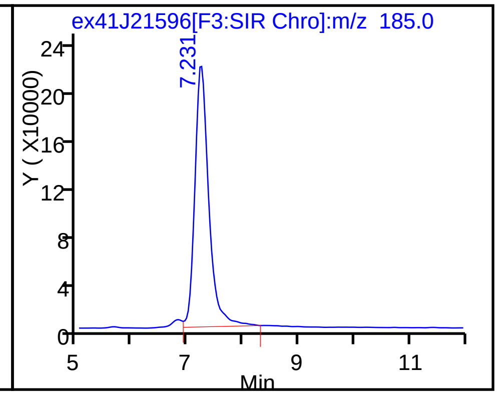
16 2-Amino-4,6-dinitrotoluene (ND)



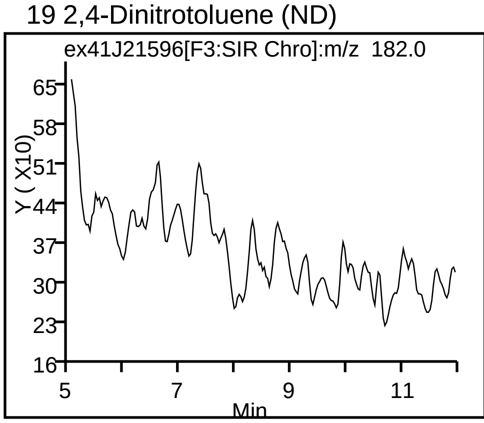
17 2,6-Dinitrotoluene (ND)



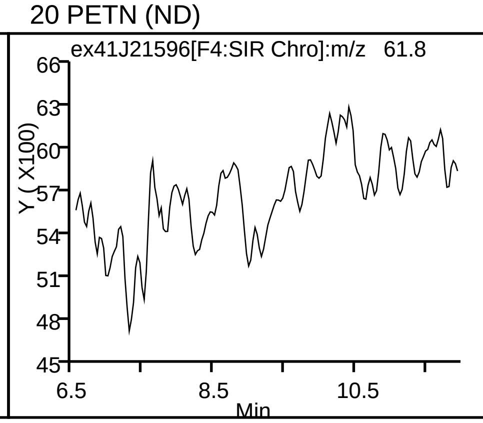
* 18 2,4-dinitrotoluene-d3



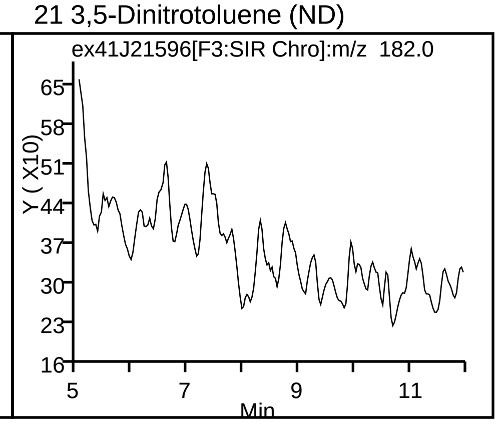
19 2,4-Dinitrotoluene (ND)



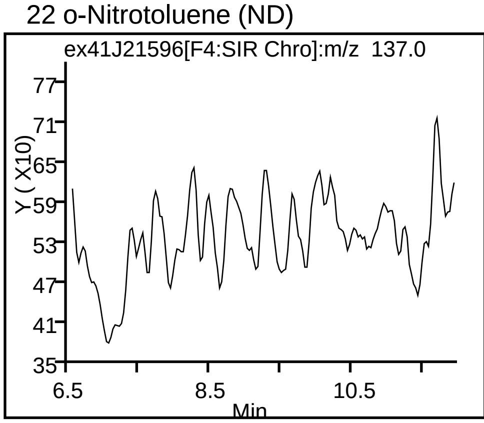
20 PETN (ND)



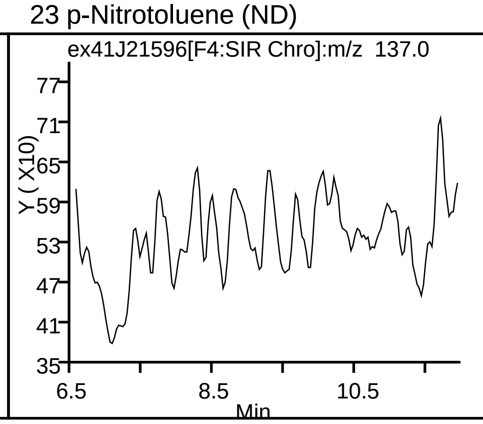
21 3,5-Dinitrotoluene (ND)



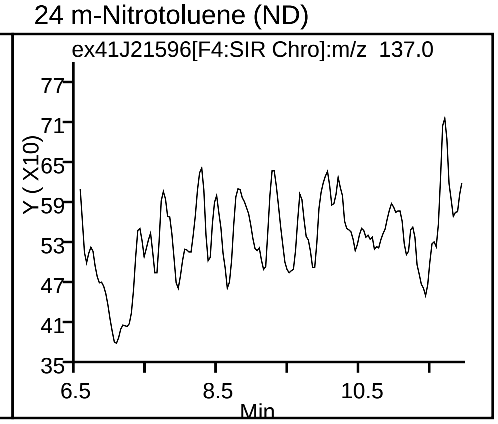
22 o-Nitrotoluene (ND)



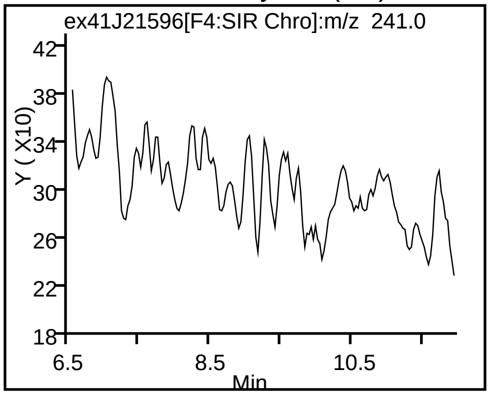
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG14 SB080 | Lab Sample ID: 280-21683-58

Matrix: Solid | Lab File ID: ex41J21597.d

Analysis Method: 8321B | Date Collected: 10/15/2011 15:15

Extraction Method: 8330B | Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.06(g) | Date Analyzed: 11/01/2011 19:42

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21597.d		
Lims ID:	280-21683-B-58-B	Client ID:	SB080
Inject. Date:	01-Nov-2011 19:42:05	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-58-B 280-0002689-121		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	60
Lims Batch ID:	94193	Lims Sample ID:	121
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:53	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:44:17

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		570027	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1816539	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1153836	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.118	479880	84.2			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3310057	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

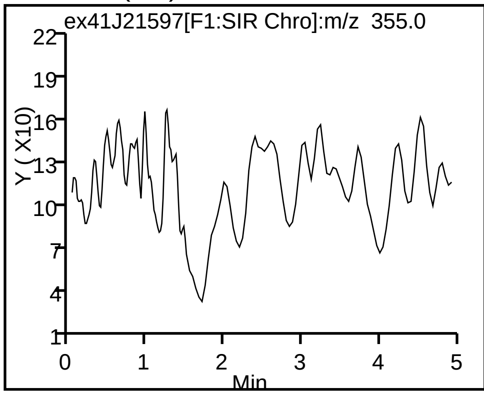
QC Flag Legend

Processing Flags
1 - Missing Peaks

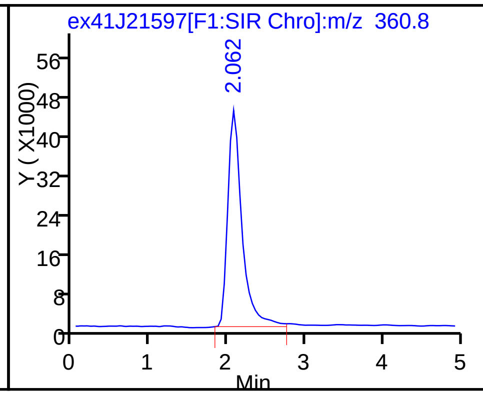
Report Date: 02-Nov-2011 06:47:56 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21597.d

Injection Date:	01-Nov-2011 19:42:05	Limit Group:	LC - 8321A Expl
Client ID:	SB080	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	121
Operator ID:		Injection Vol:	40.00 ul

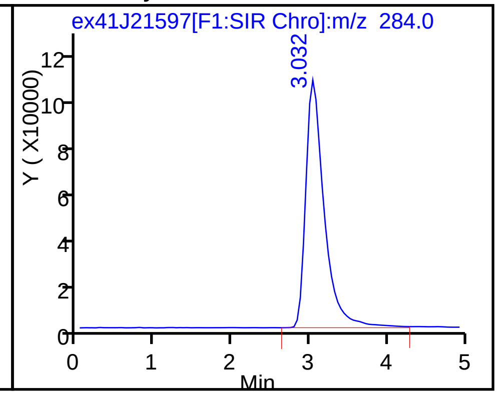
2 HMX (ND)



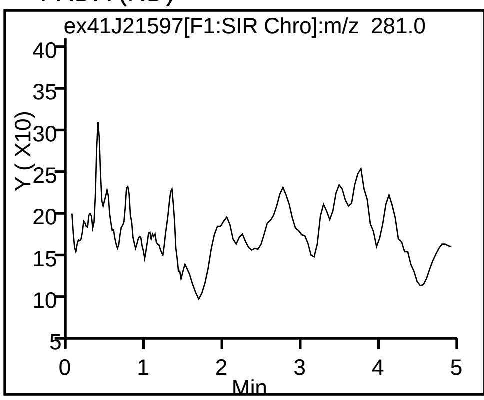
* 1 HMX-13C4



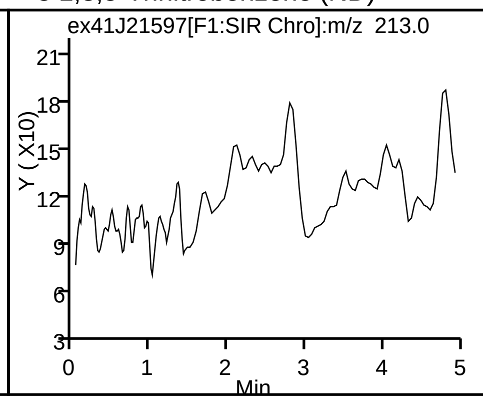
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



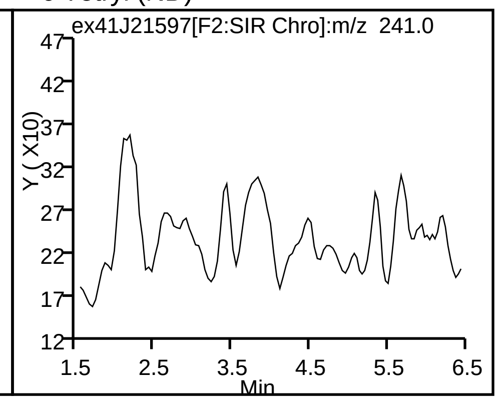
4 RDX (ND)



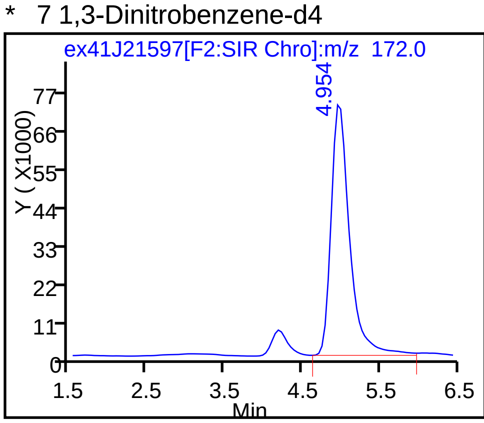
5 1,3,5-Trinitrobenzene (ND)



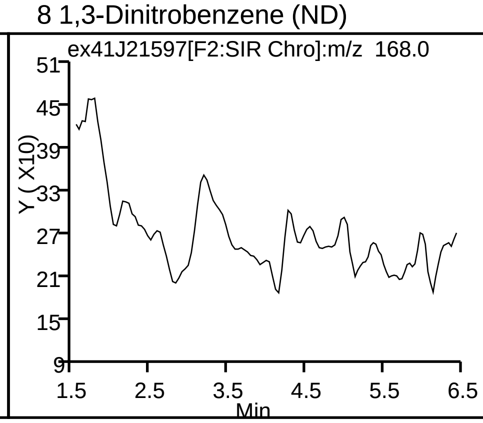
6 Tetryl (ND)



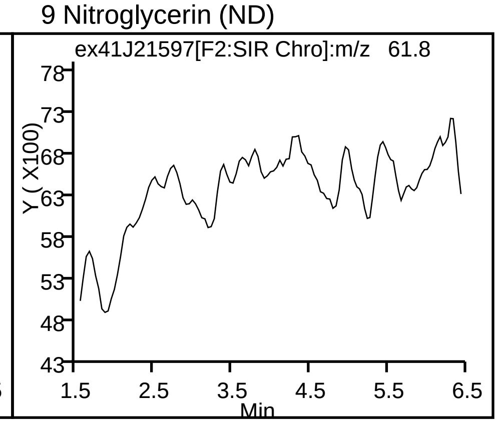
* 7 1,3-Dinitrobenzene-d4



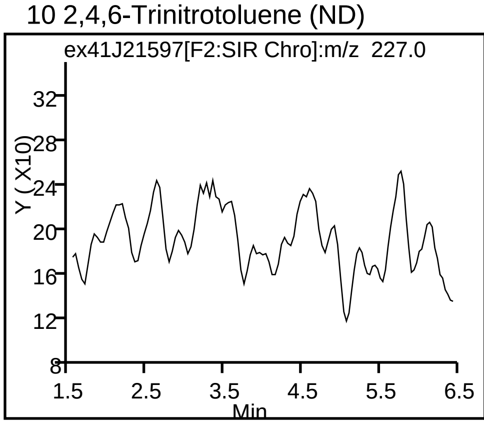
8 1,3-Dinitrobenzene (ND)



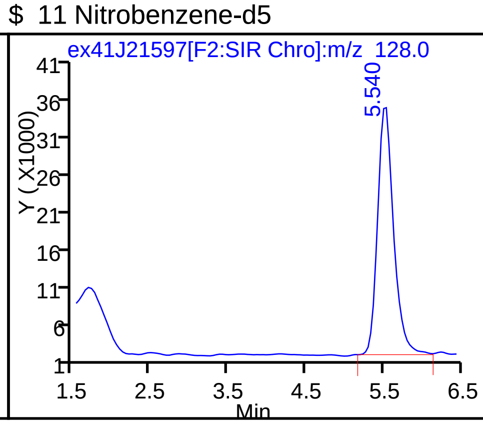
9 Nitroglycerin (ND)



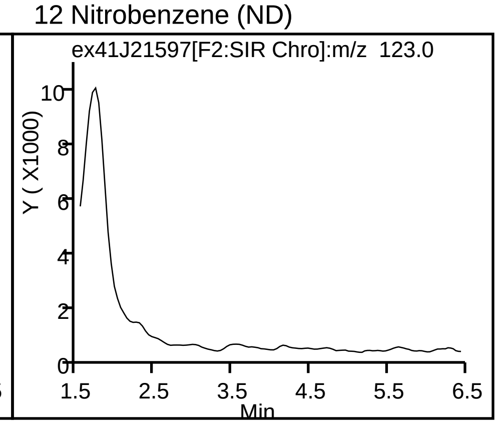
10 2,4,6-Trinitrotoluene (ND)



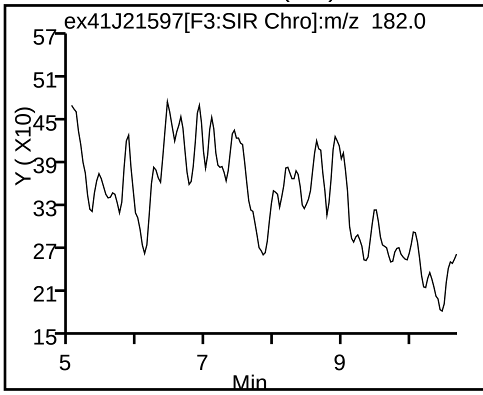
$ 11 Nitrobenzene-d5



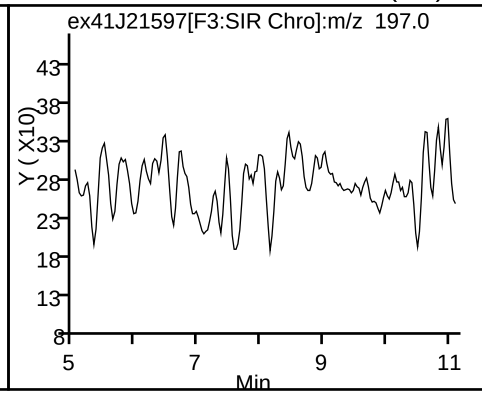
12 Nitrobenzene (ND)



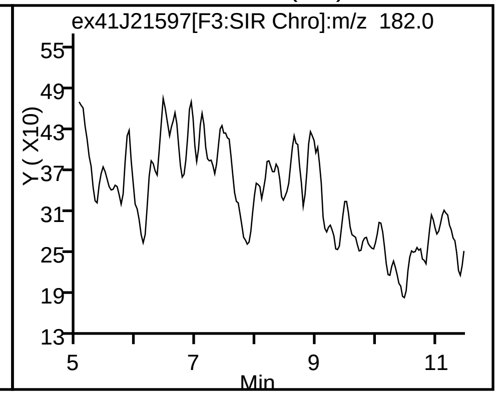
13 3,4-Dinitrotoluene (ND)



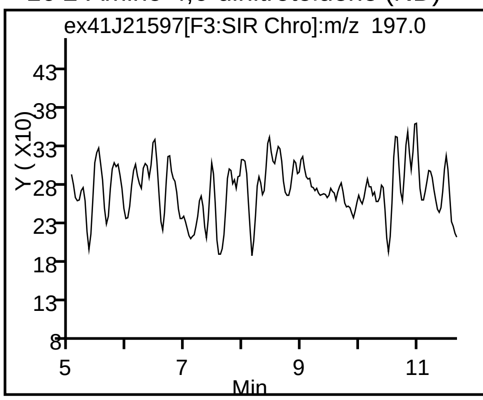
14 4-Amino-2,6-dinitrotoluene (ND)



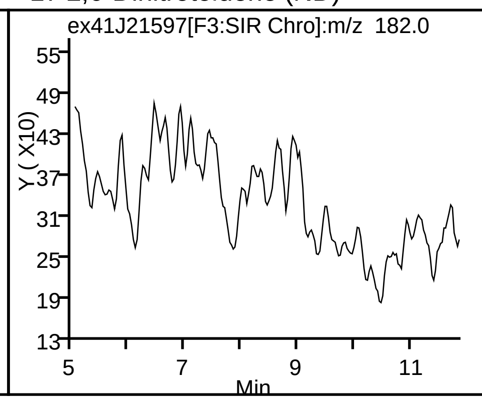
15 2,3-Dinitrotoluene (ND)



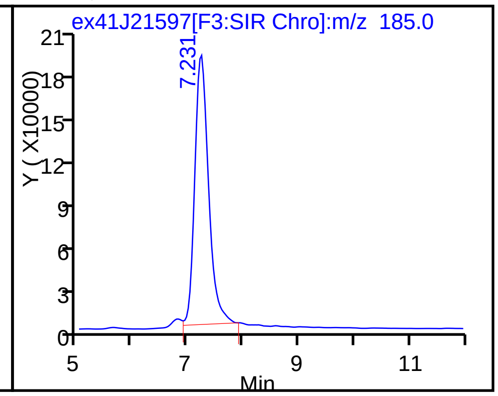
16 2-Amino-4,6-dinitrotoluene (ND)



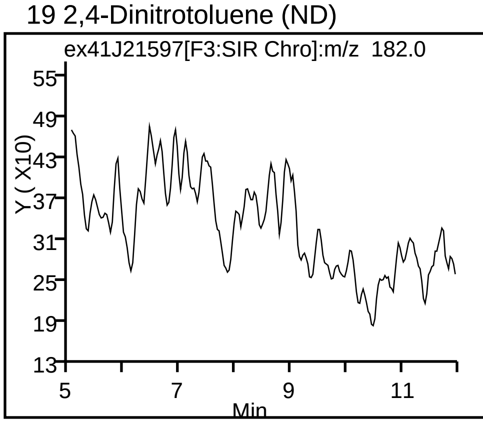
17 2,6-Dinitrotoluene (ND)



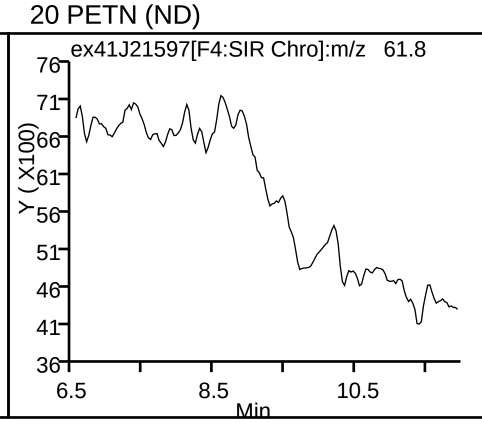
* 18 2,4-dinitrotoluene-d3



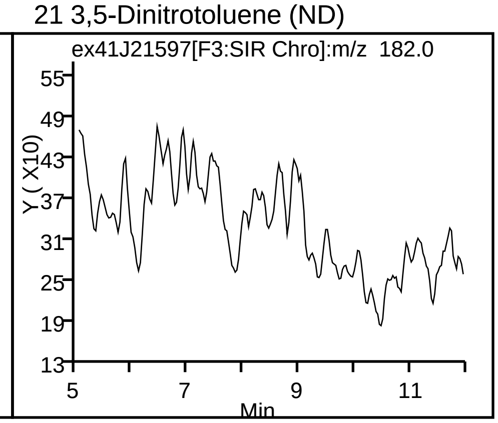
19 2,4-Dinitrotoluene (ND)



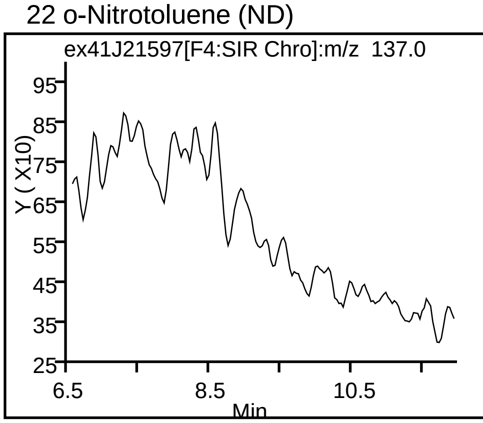
20 PETN (ND)



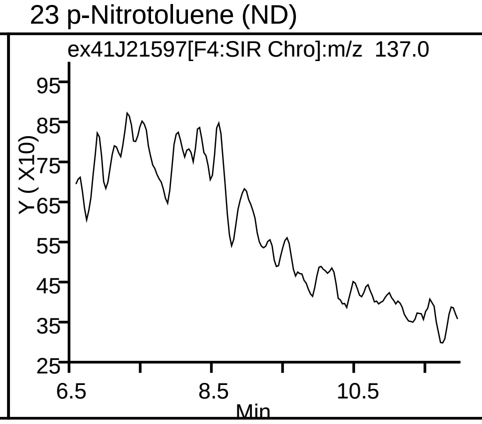
21 3,5-Dinitrotoluene (ND)



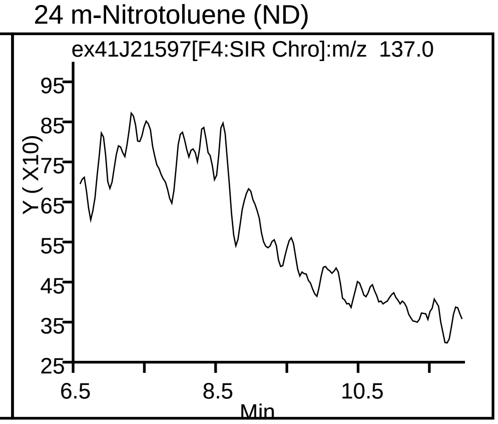
22 o-Nitrotoluene (ND)



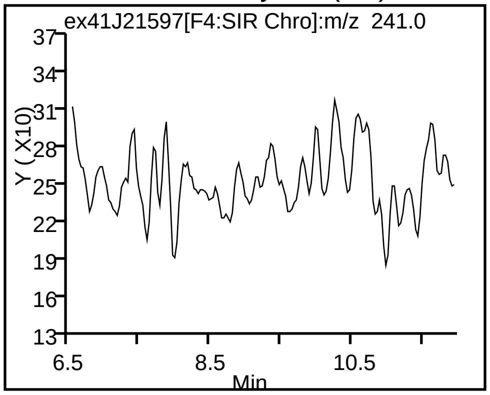
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG13 SB077   Lab Sample ID: 280-21683-59

Matrix: Solid   Lab File ID: ex41J21598.d

Analysis Method: 8321B   Date Collected: 10/15/2011 15:24

Extraction Method: 8330B   Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.55(g)   Date Analyzed: 11/01/2011 19:55

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	88		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21598.d		
Lims ID:	280-21683-A-59-C	Client ID:	SB077
Inject. Date:	01-Nov-2011 19:55:39	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-59-C 280-0002689-122		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	61
Lims Batch ID:	94193	Lims Sample ID:	122
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:53	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:44:27

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		655599	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2202952	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1360667	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	585376	87.1			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3799178	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

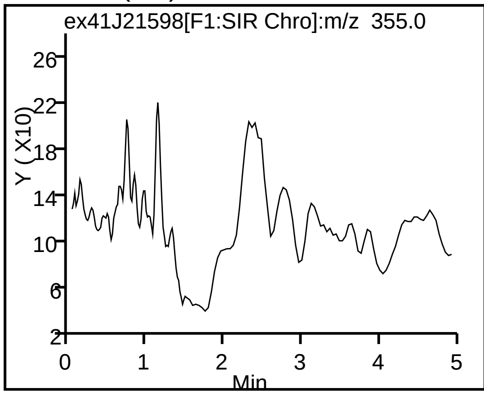
QC Flag Legend

Processing Flags
1 - Missing Peaks

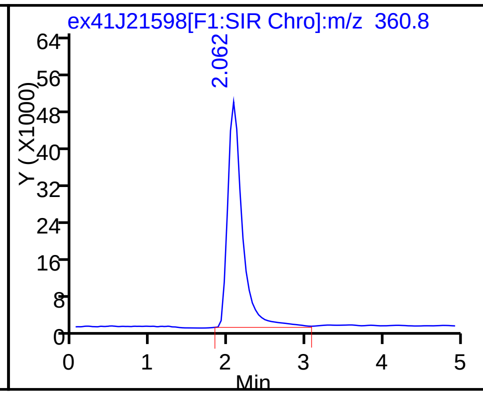
Report Date: 02-Nov-2011 06:47:56 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21598.d

Injection Date:	01-Nov-2011 19:55:39	Limit Group:	LC - 8321A Expl
Client ID:	SB077	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	122
Operator ID:		Injection Vol:	40.00 ul

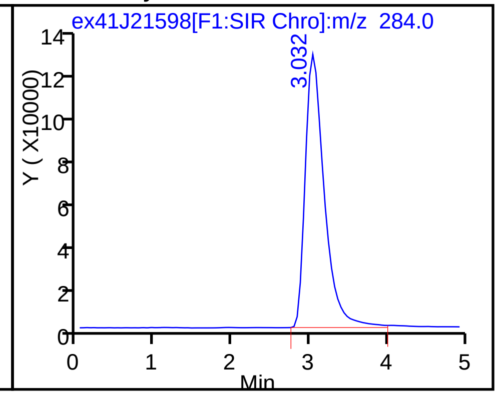
2 HMX (ND)



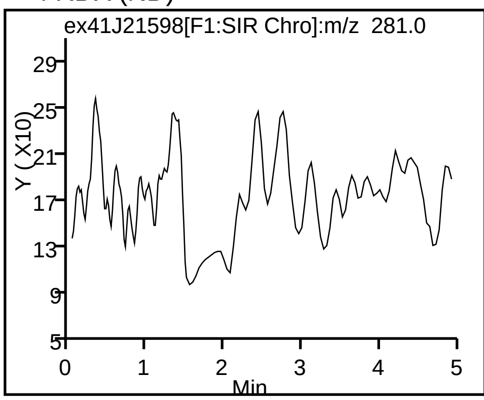
* 1 HMX-13C4



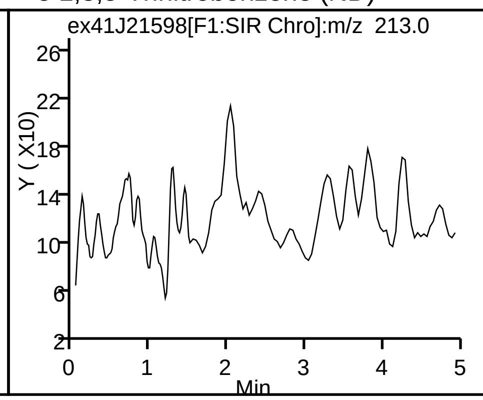
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



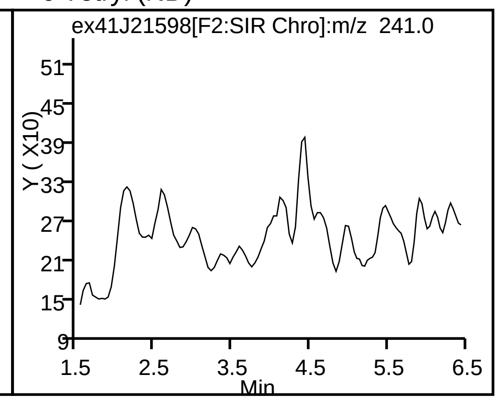
4 RDX (ND)



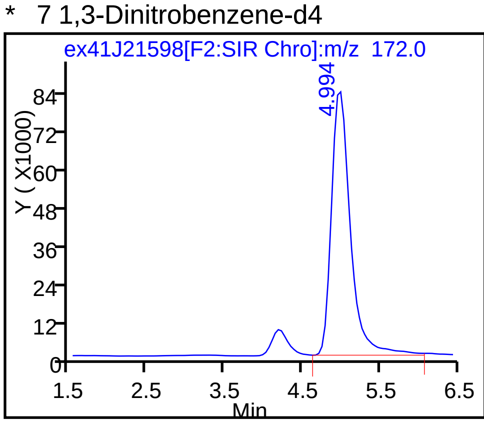
5 1,3,5-Trinitrobenzene (ND)



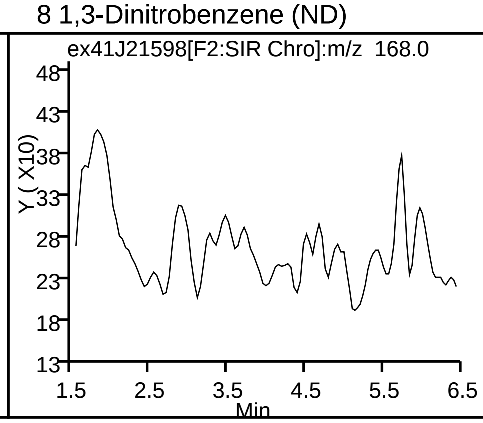
6 Tetryl (ND)



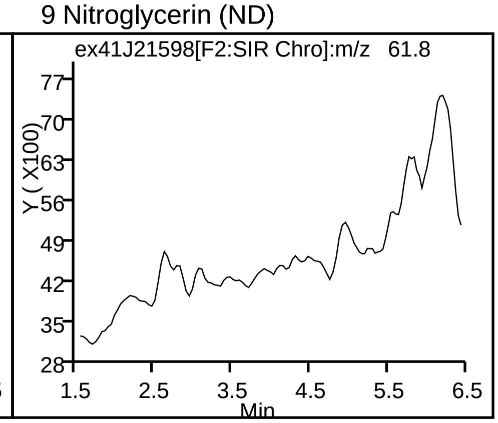
* 7 1,3-Dinitrobenzene-d4



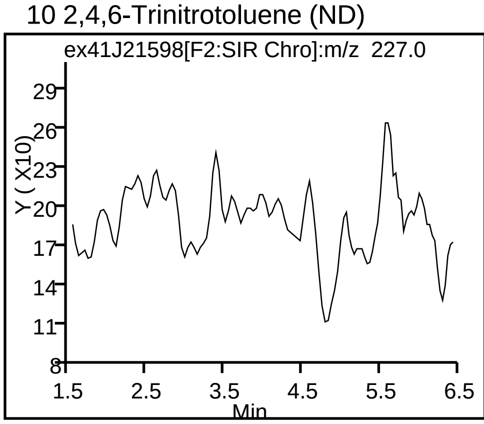
8 1,3-Dinitrobenzene (ND)



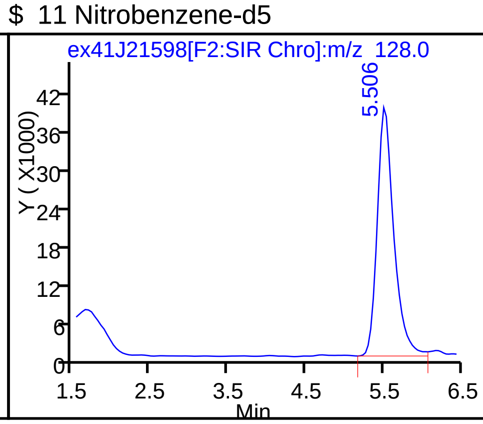
9 Nitroglycerin (ND)



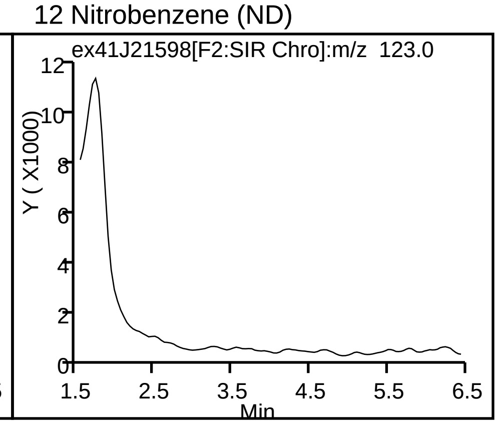
10 2,4,6-Trinitrotoluene (ND)



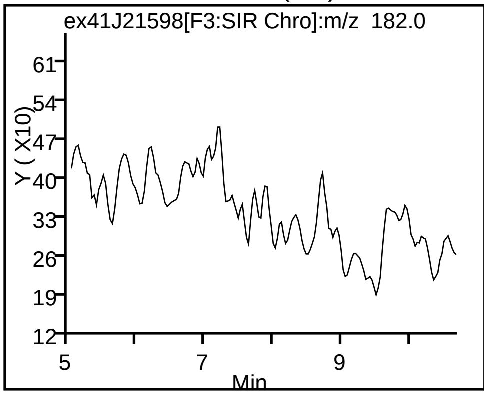
$ 11 Nitrobenzene-d5



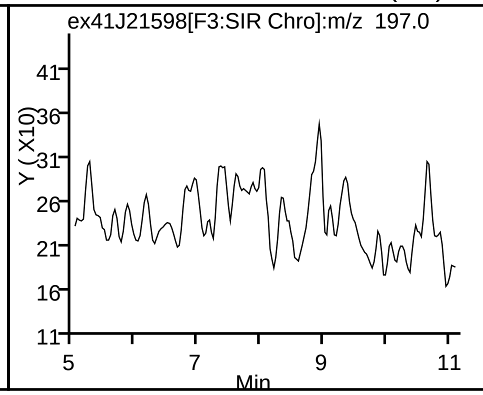
12 Nitrobenzene (ND)



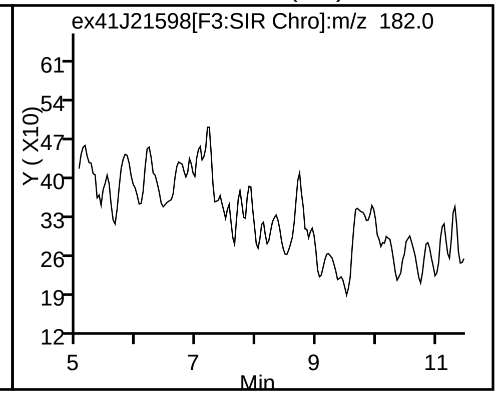
13 3,4-Dinitrotoluene (ND)



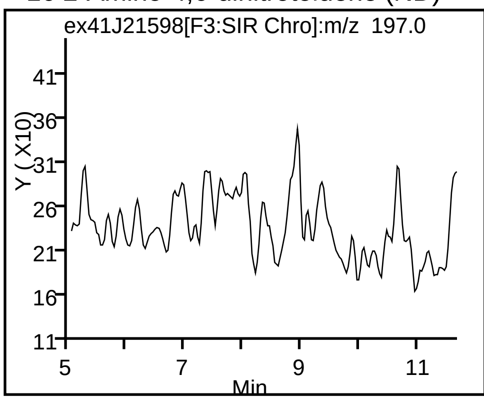
14 4-Amino-2,6-dinitrotoluene (ND)



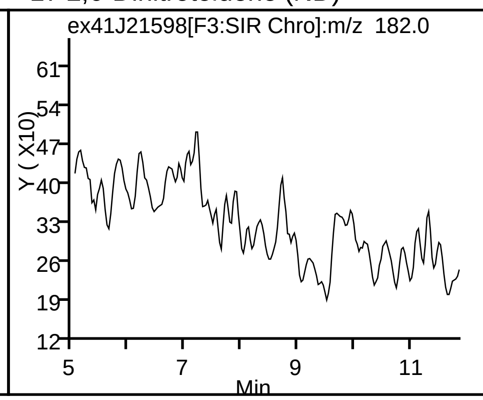
15 2,3-Dinitrotoluene (ND)



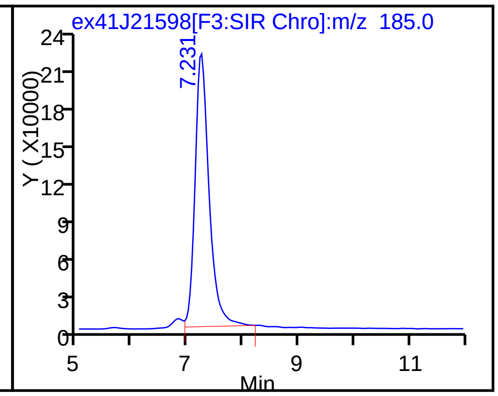
16 2-Amino-4,6-dinitrotoluene (ND)



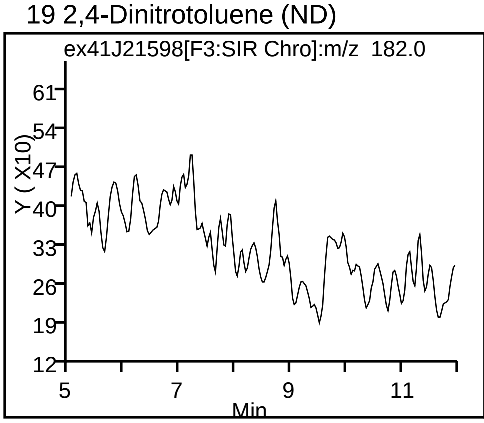
17 2,6-Dinitrotoluene (ND)



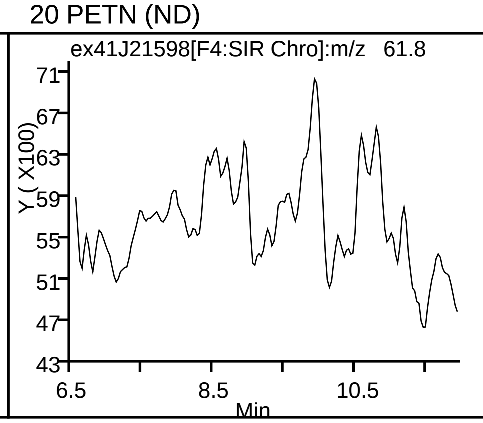
* 18 2,4-dinitrotoluene-d3



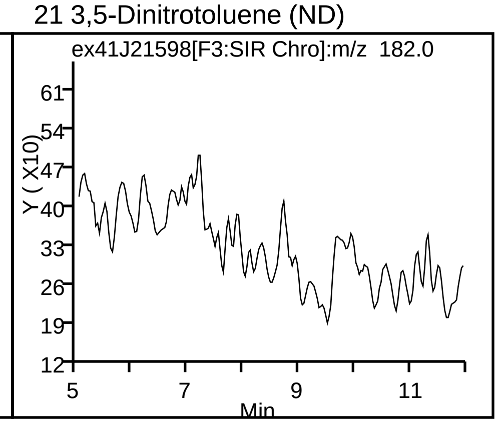
19 2,4-Dinitrotoluene (ND)



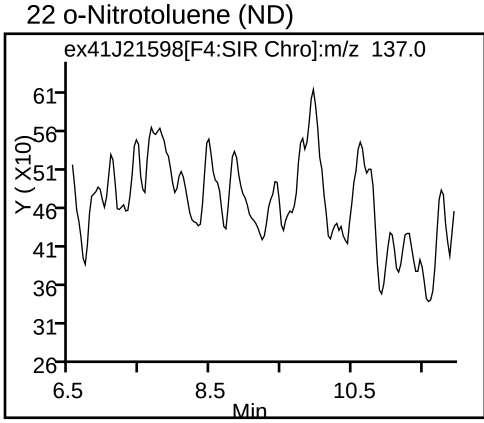
20 PETN (ND)



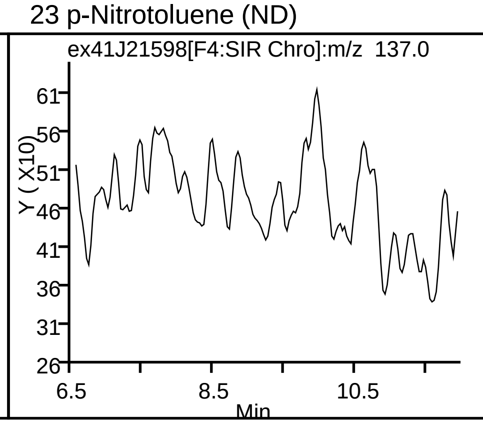
21 3,5-Dinitrotoluene (ND)



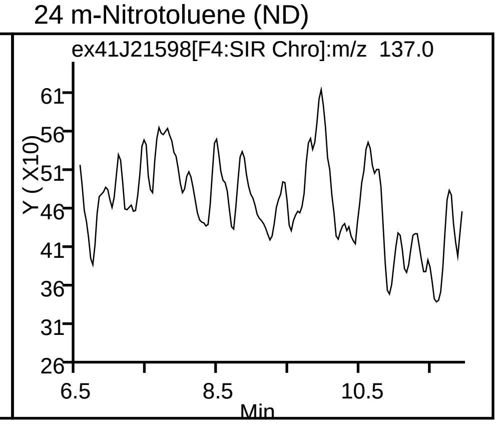
22 o-Nitrotoluene (ND)



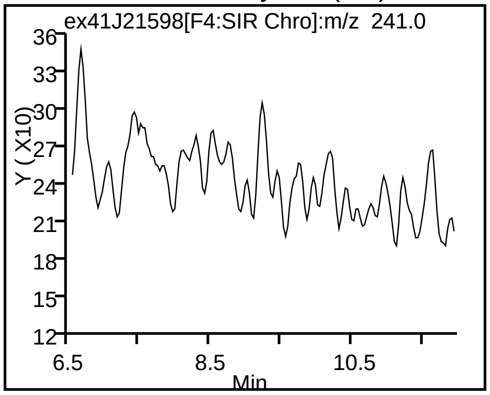
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG13 SB078   Lab Sample ID: 280-21683-60

Matrix: Solid   Lab File ID: ex41J21599.d

Analysis Method: 8321B   Date Collected: 10/15/2011 15:26

Extraction Method: 8330B   Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.55(g)   Date Analyzed: 11/01/2011 20:09

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	73		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21599.d		
Lims ID:	280-21683-B-60-B	Client ID:	SB078
Inject. Date:	01-Nov-2011 20:09:12	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-60-B 280-0002689-123		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	62
Lims Batch ID:	94193	Lims Sample ID:	123
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:59:05	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 07:08:36

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		606475	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1977511	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1337448	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	473956	71.7			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.533							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3959010	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

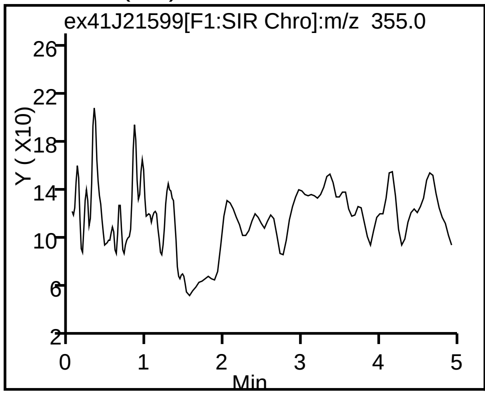
QC Flag Legend

Processing Flags
1 - Missing Peaks

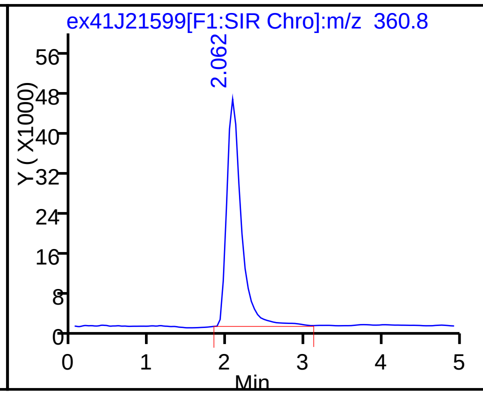
Report Date: 02-Nov-2011 07:08:36 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21599.d

Injection Date:	01-Nov-2011 20:09:12	Limit Group:	LC - 8321A Expl
Client ID:	SB078	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	123
Operator ID:		Injection Vol:	40.00 ul

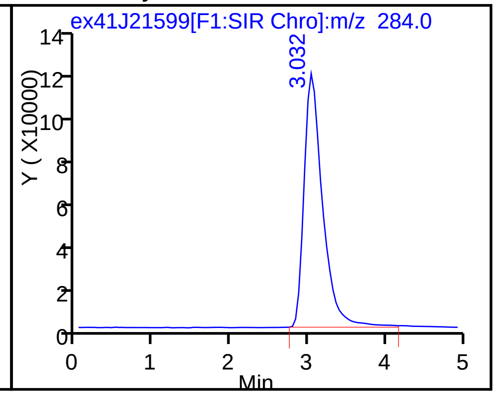
2 HMX (ND)



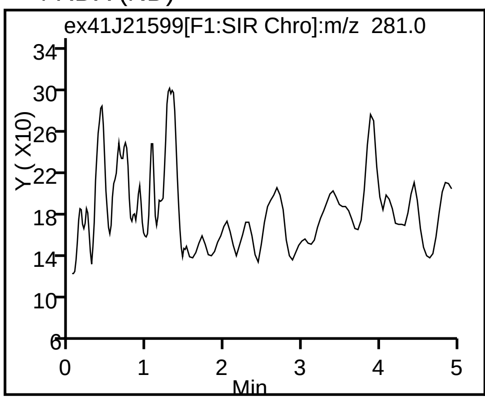
* 1 HMX-13C4



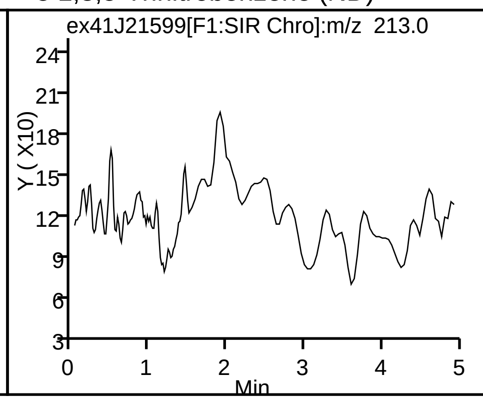
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



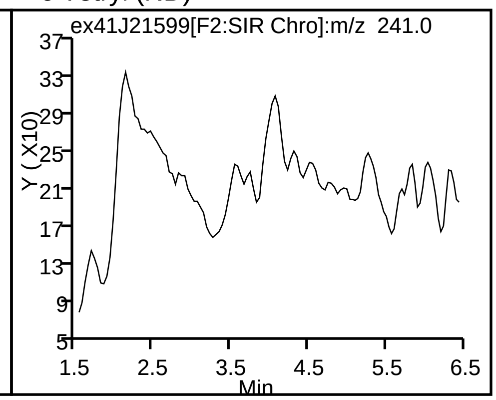
4 RDX (ND)



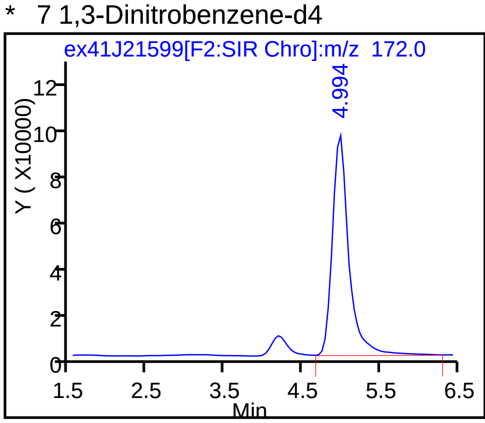
5 1,3,5-Trinitrobenzene (ND)



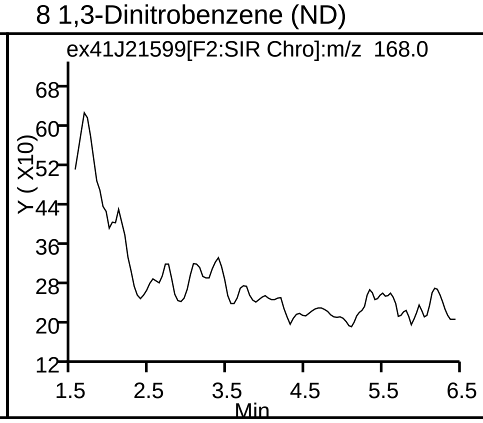
6 Tetryl (ND)



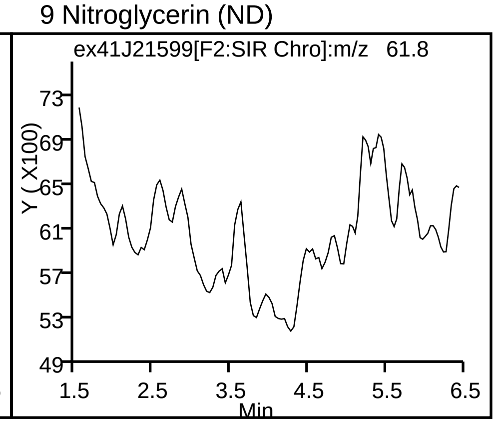
* 7 1,3-Dinitrobenzene-d4



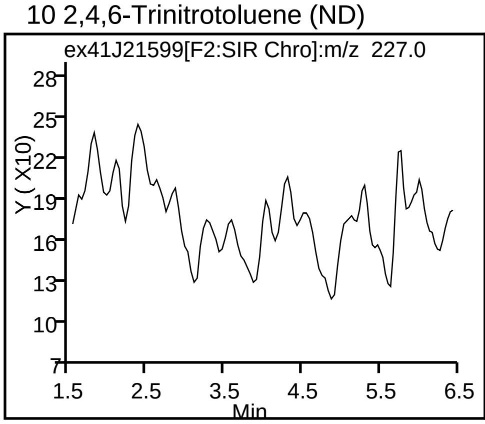
8 1,3-Dinitrobenzene (ND)



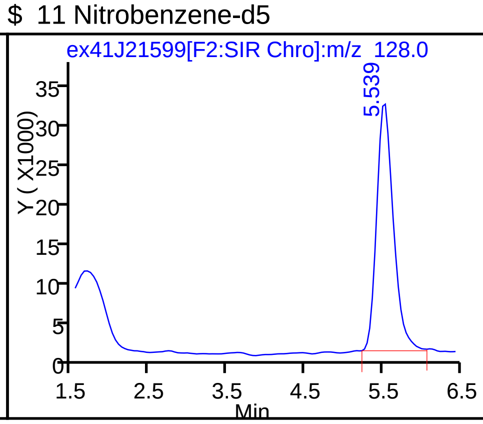
9 Nitroglycerin (ND)



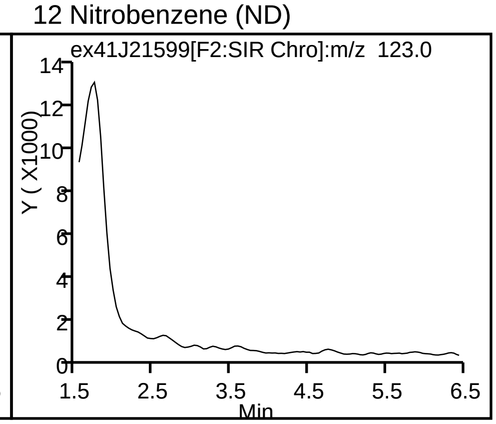
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

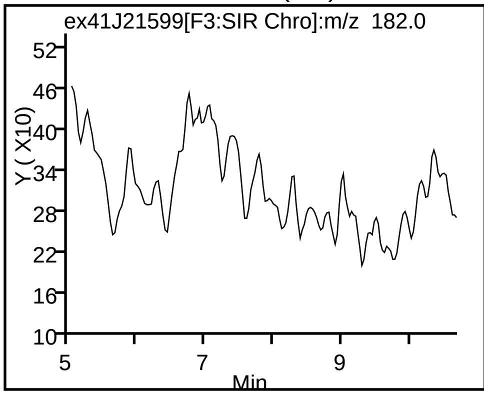


12 Nitrobenzene (ND)

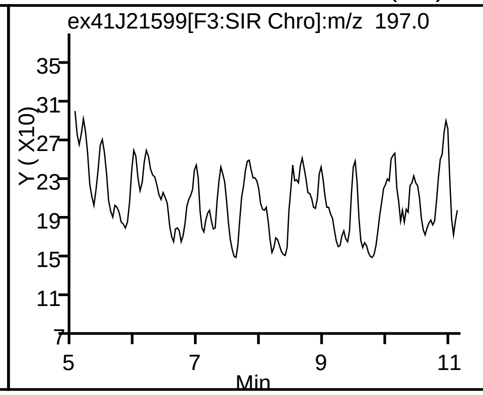


Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21599.d

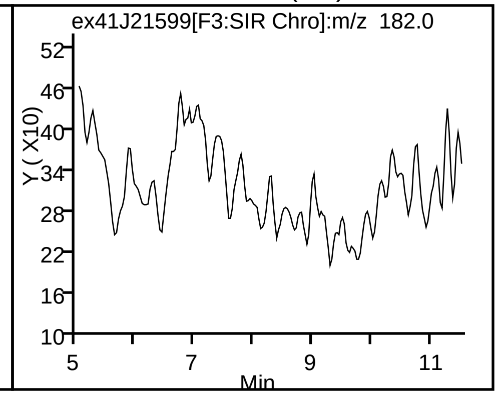
13 3,4-Dinitrotoluene (ND)



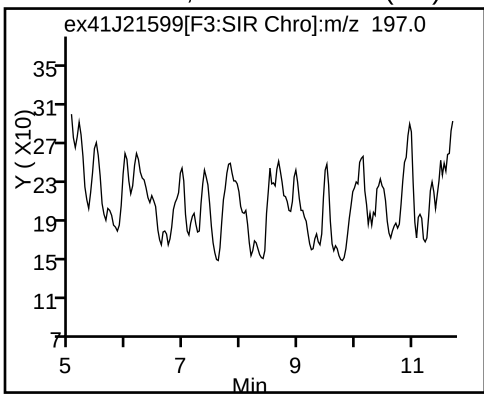
14 4-Amino-2,6-dinitrotoluene (ND)



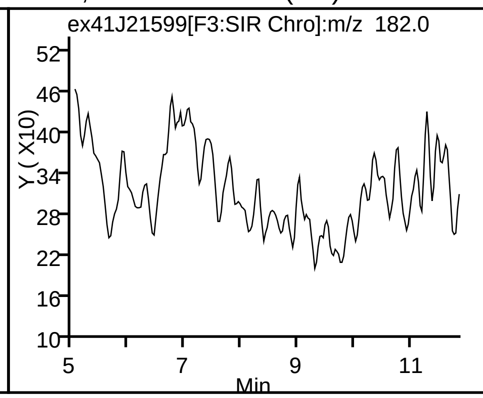
15 2,3-Dinitrotoluene (ND)



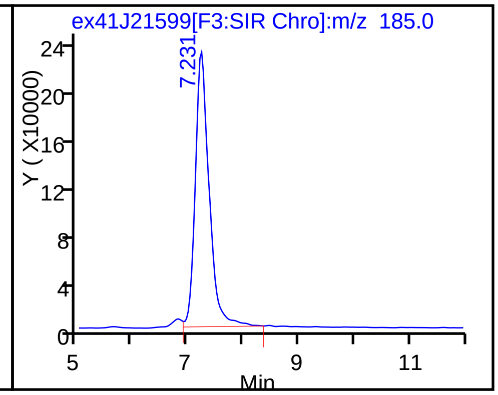
16 2-Amino-4,6-dinitrotoluene (ND)



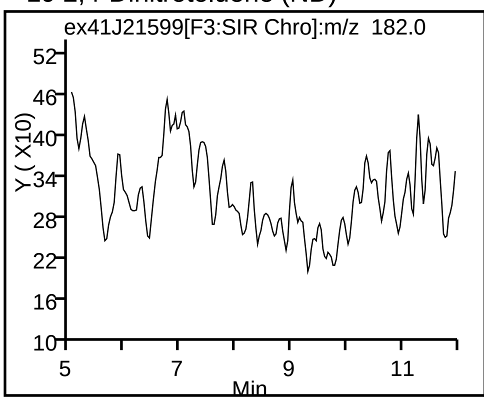
17 2,6-Dinitrotoluene (ND)



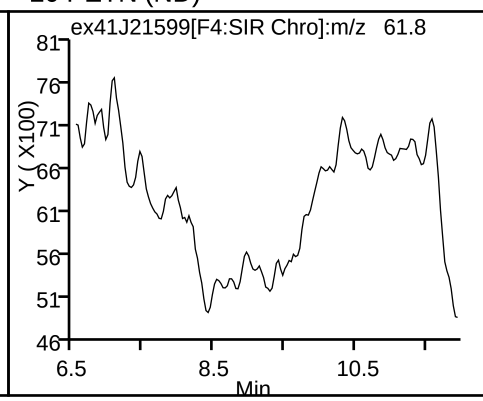
* 18 2,4-dinitrotoluene-d3



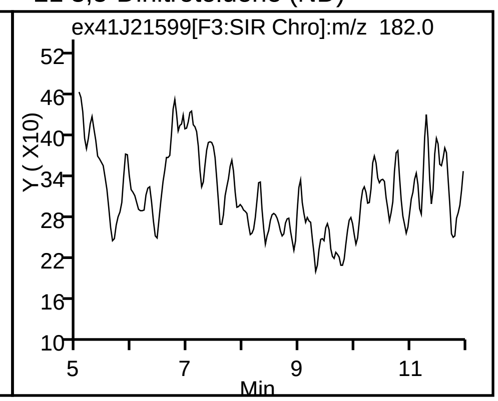
19 2,4-Dinitrotoluene (ND)



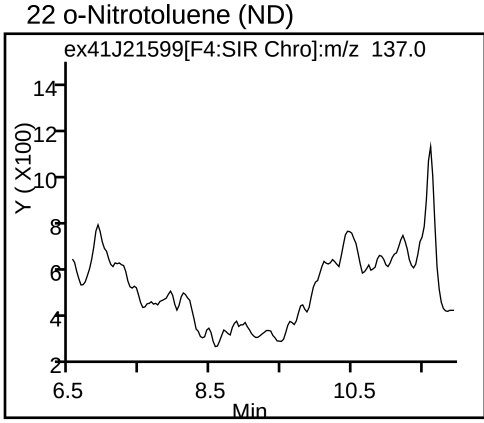
20 PETN (ND)



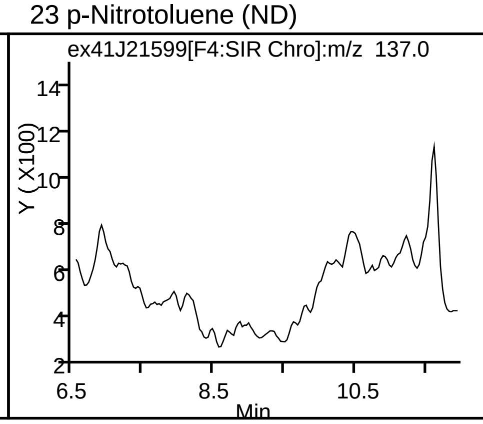
21 3,5-Dinitrotoluene (ND)



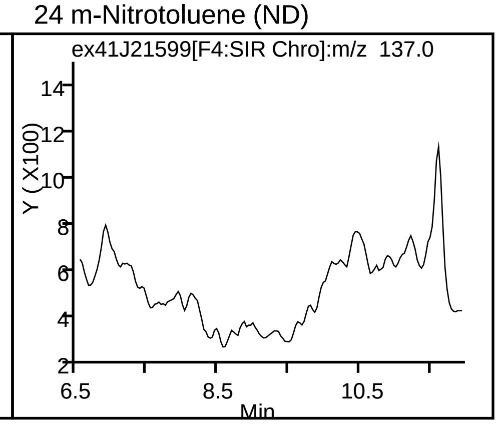
22 o-Nitrotoluene (ND)



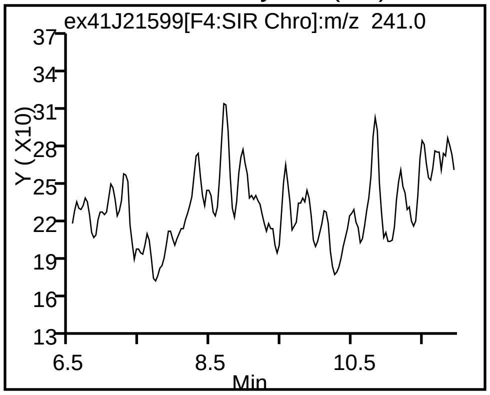
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG16 SB083 | Lab Sample ID: 280-21683-61

Matrix: Solid | Lab File ID: ex41J21600.d

Analysis Method: 8321B | Date Collected: 10/15/2011 15:37

Extraction Method: 8330B | Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.18(g) | Date Analyzed: 11/01/2011 20:22

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	86		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21600.d		
Lims ID:	280-21683-B-61-B	Client ID:	SB083
Inject. Date:	01-Nov-2011 20:22:47	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-61-B 280-0002689-124		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	63
Lims Batch ID:	94193	Lims Sample ID:	124
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:53	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		536020	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1942070	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1161627	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	490151	85.4			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3526807	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

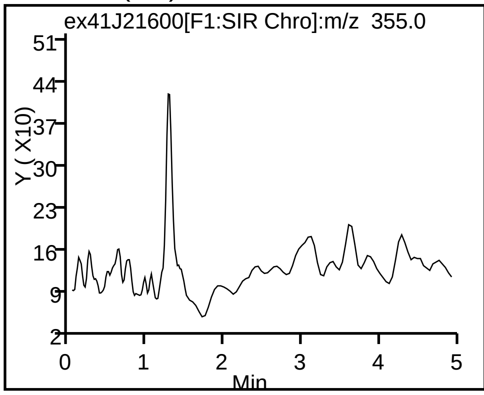
QC Flag Legend

Processing Flags
1 - Missing Peaks

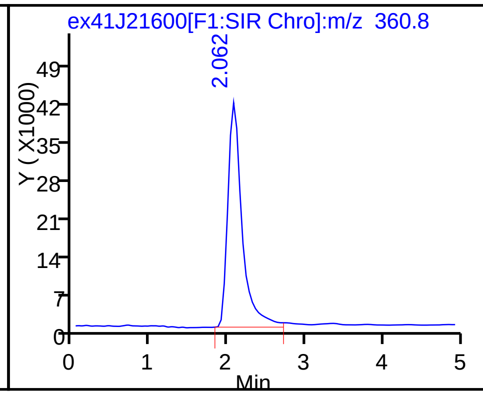
Report Date: 02-Nov-2011 06:47:58 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21600.d

Injection Date:	01-Nov-2011 20:22:47	Limit Group:	LC - 8321A Expl
Client ID:	SB083	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	124
Operator ID:		Injection Vol:	40.00 ul

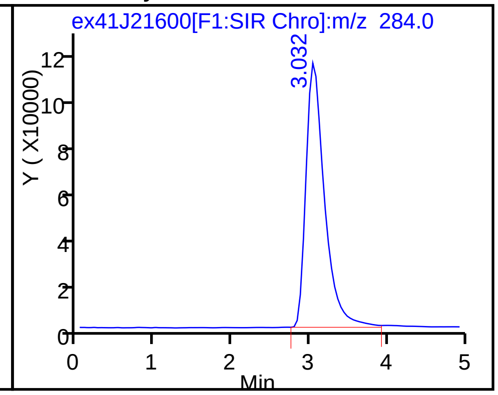
2 HMX (ND)



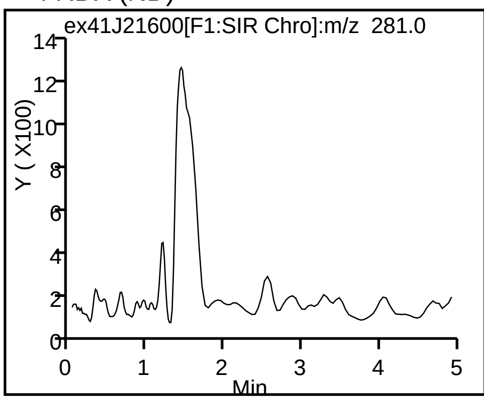
* 1 HMX-13C4



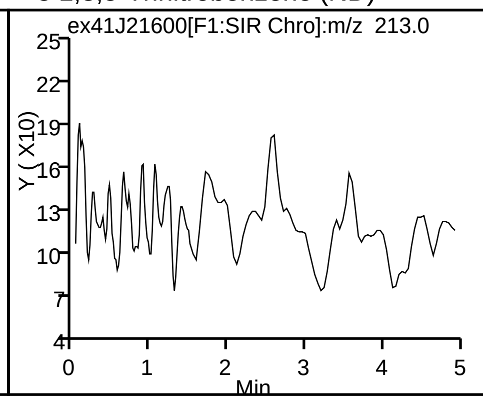
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



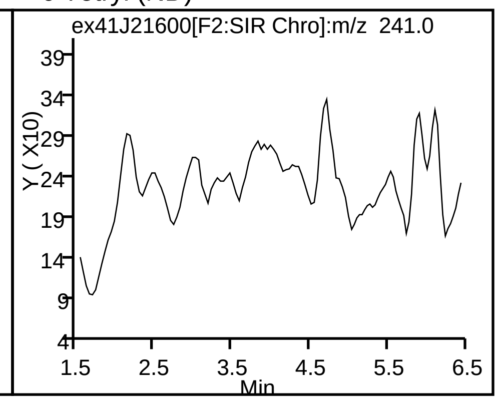
4 RDX (ND)



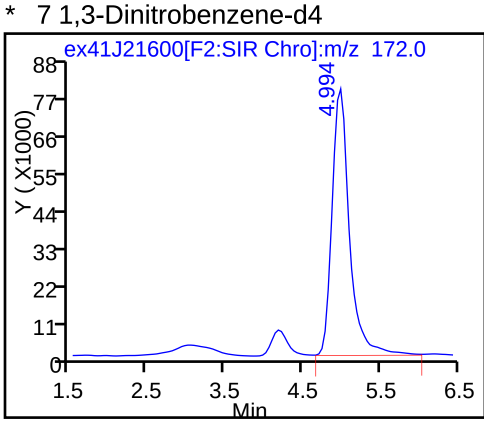
5 1,3,5-Trinitrobenzene (ND)



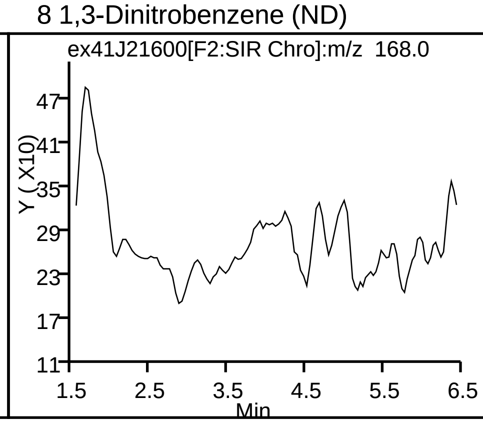
6 Tetryl (ND)



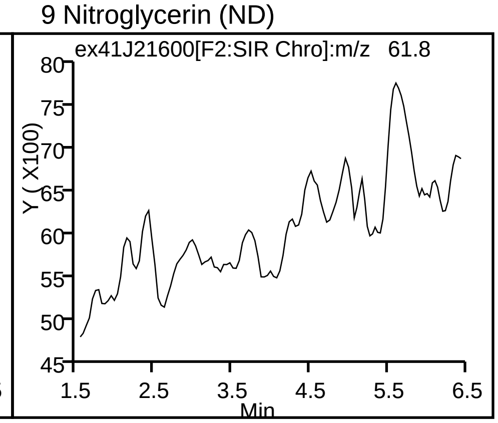
* 7 1,3-Dinitrobenzene-d4



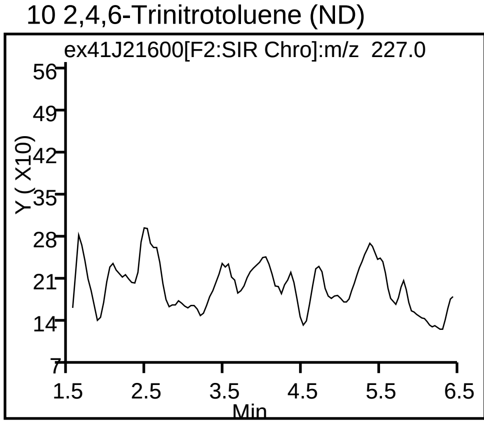
8 1,3-Dinitrobenzene (ND)



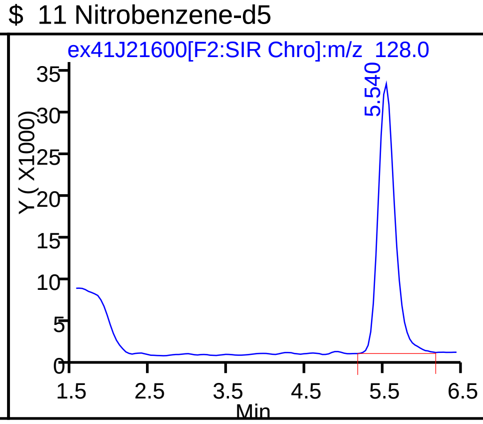
9 Nitroglycerin (ND)



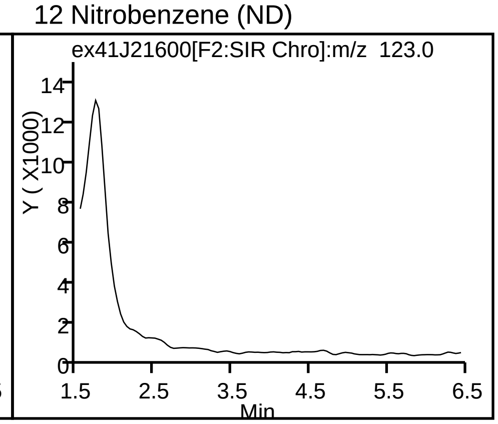
10 2,4,6-Trinitrotoluene (ND)



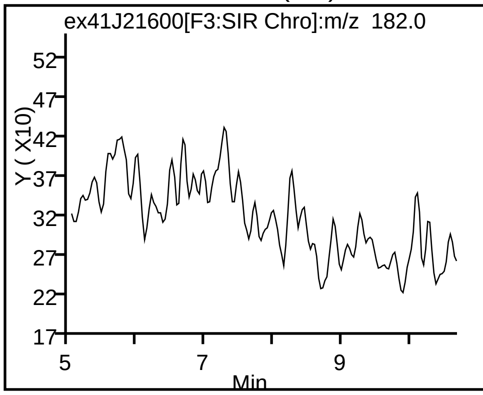
$ 11 Nitrobenzene-d5



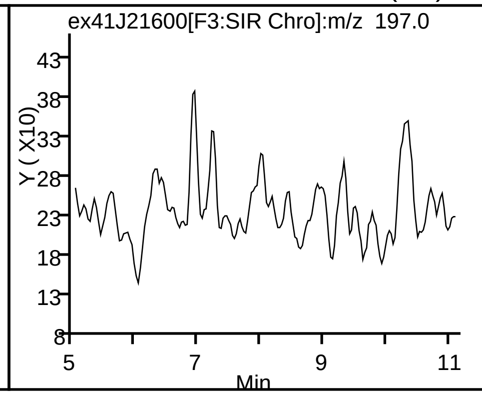
12 Nitrobenzene (ND)



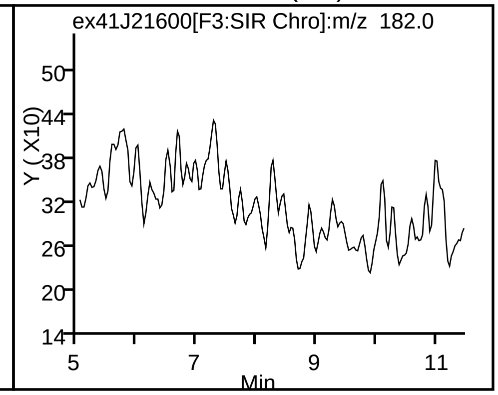
13 3,4-Dinitrotoluene (ND)



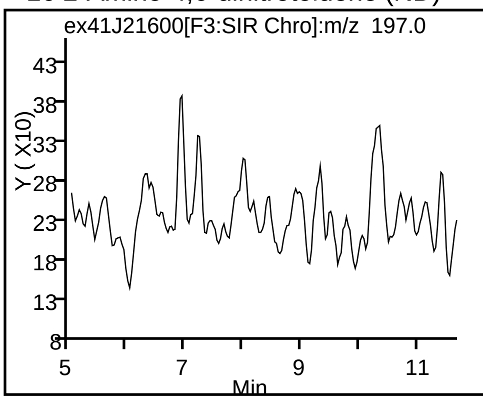
14 4-Amino-2,6-dinitrotoluene (ND)



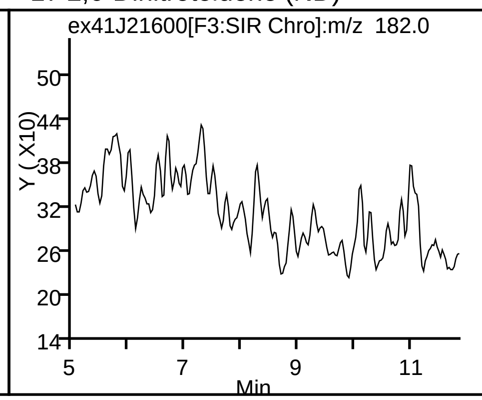
15 2,3-Dinitrotoluene (ND)



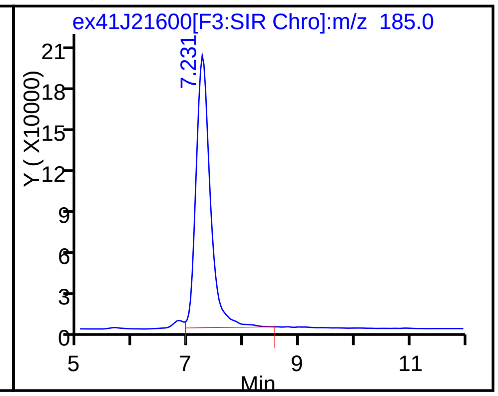
16 2-Amino-4,6-dinitrotoluene (ND)



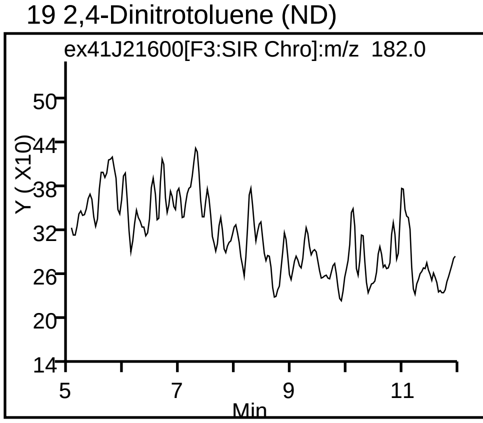
17 2,6-Dinitrotoluene (ND)



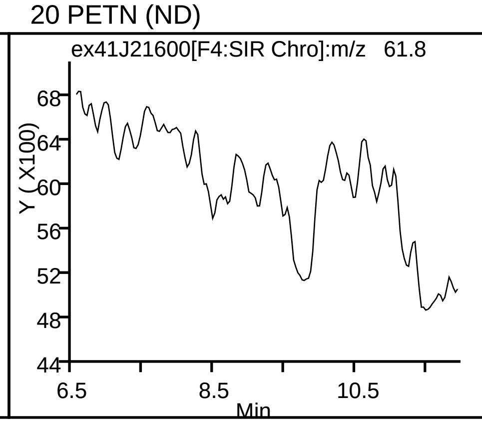
* 18 2,4-dinitrotoluene-d3



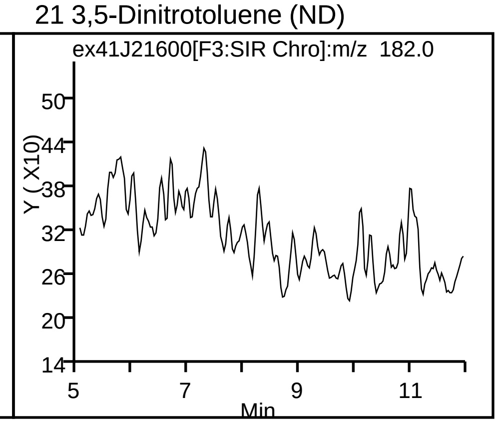
19 2,4-Dinitrotoluene (ND)



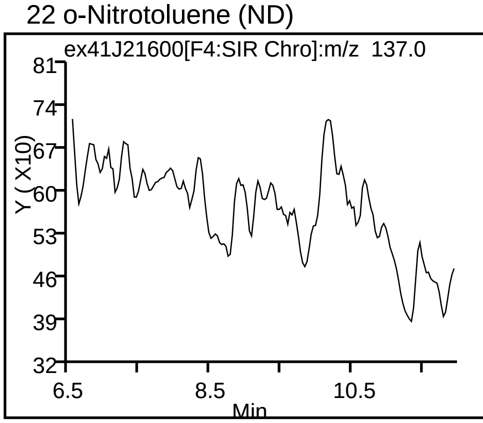
20 PETN (ND)



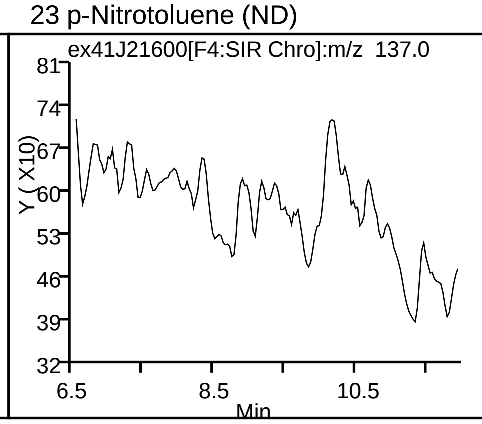
21 3,5-Dinitrotoluene (ND)



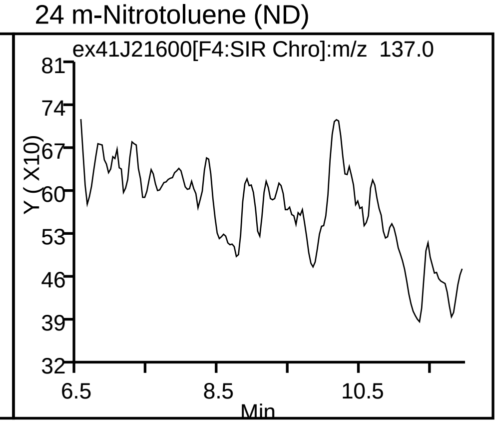
22 o-Nitrotoluene (ND)



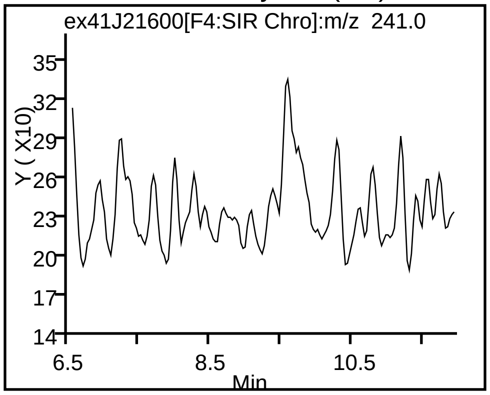
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG16 SB084   Lab Sample ID: 280-21683-62

Matrix: Solid   Lab File ID: ex41J21601.d

Analysis Method: 8321B   Date Collected: 10/15/2011 15:40

Extraction Method: 8330B   Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.08(g)   Date Analyzed: 11/01/2011 20:36

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21601.d		
Lims ID:	280-21683-A-62-C	Client ID:	SB084
Inject. Date:	01-Nov-2011 20:36:21	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-62-C 280-0002689-125		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	64
Lims Batch ID:	94193	Lims Sample ID:	125
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:53	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		548920	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1830986	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1160616	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	493338	86.1			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3147084	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

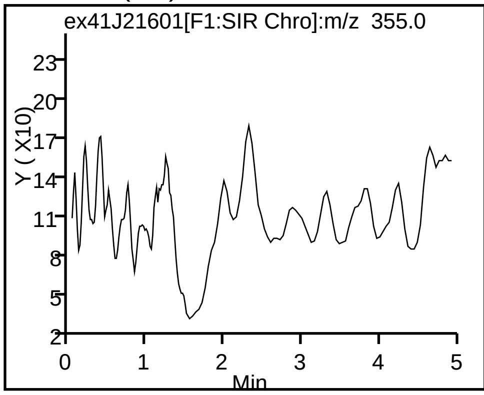
QC Flag Legend

Processing Flags
1 - Missing Peaks

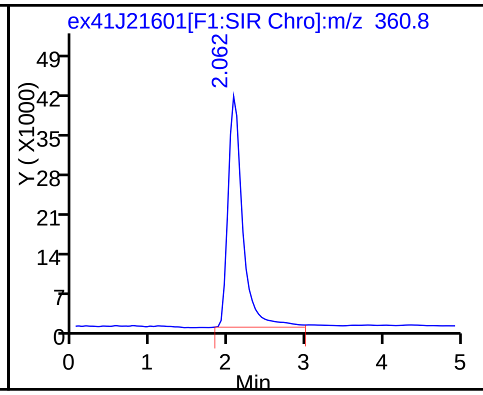
Report Date: 02-Nov-2011 06:47:58 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21601.d		
Injection Date:	01-Nov-2011 20:36:21	Limit Group:	LC - 8321A Expl
Client ID:	SB084	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	125
Operator ID:		Injection Vol:	40.00 ul

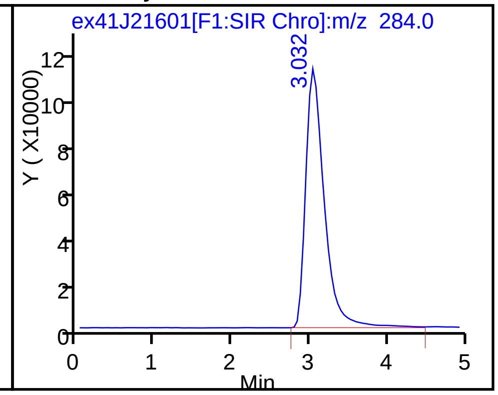
2 HMX (ND)



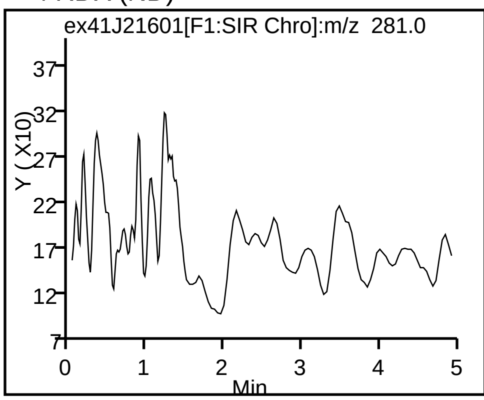
* 1 HMX-13C4



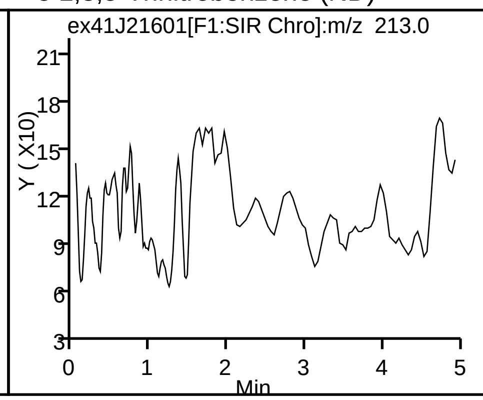
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



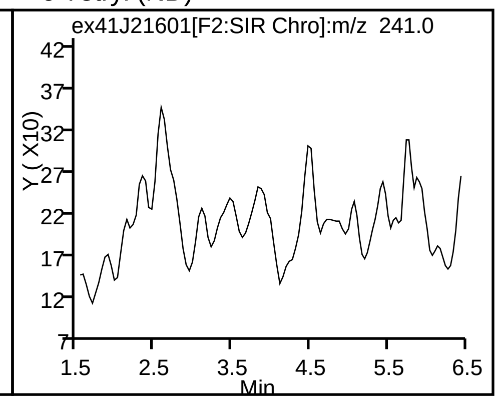
4 RDX (ND)



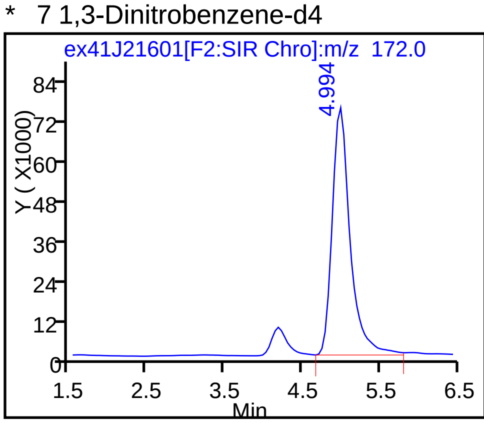
5 1,3,5-Trinitrobenzene (ND)



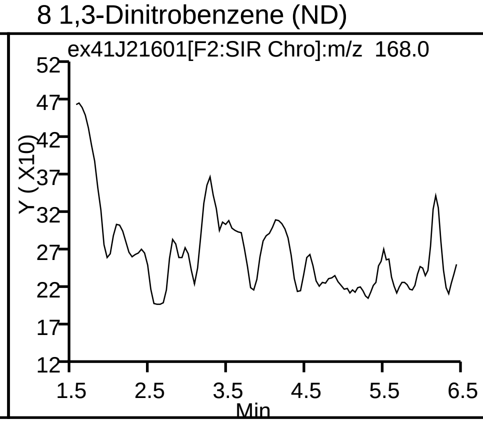
6 Tetryl (ND)



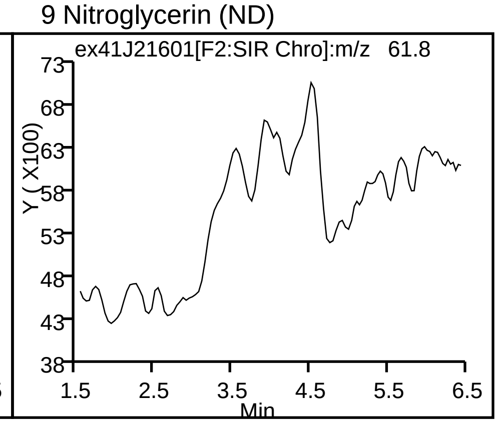
* 7 1,3-Dinitrobenzene-d4



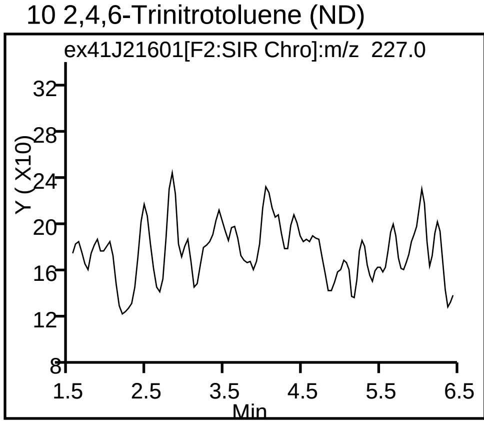
8 1,3-Dinitrobenzene (ND)



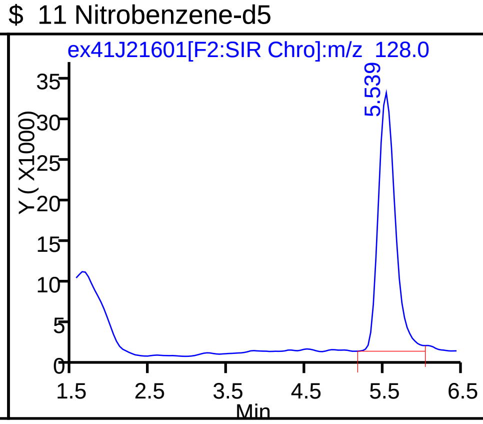
9 Nitroglycerin (ND)



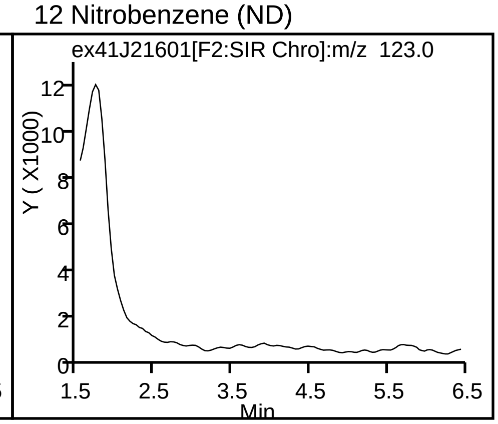
10 2,4,6-Trinitrotoluene (ND)



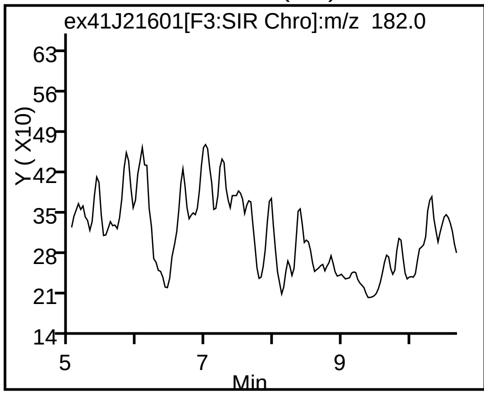
$ 11 Nitrobenzene-d5



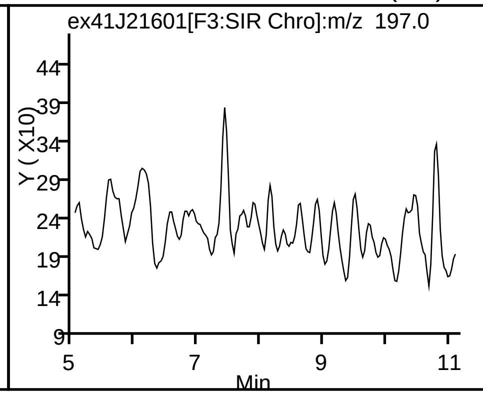
12 Nitrobenzene (ND)



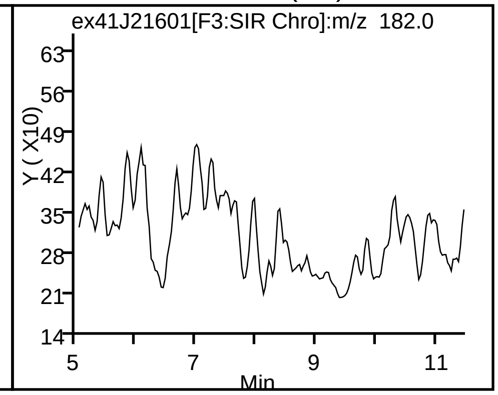
13 3,4-Dinitrotoluene (ND)



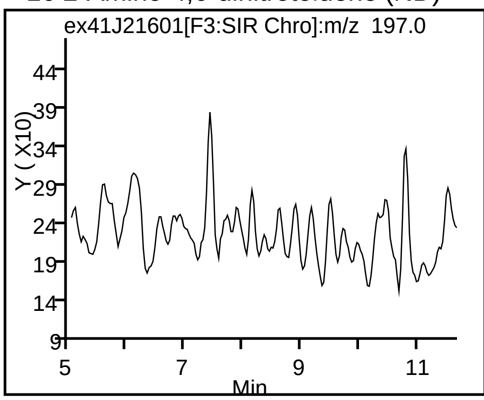
14 4-Amino-2,6-dinitrotoluene (ND)



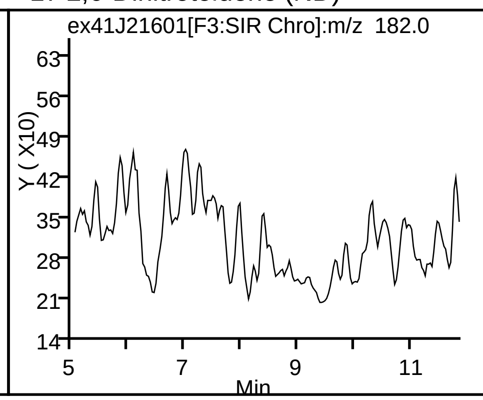
15 2,3-Dinitrotoluene (ND)



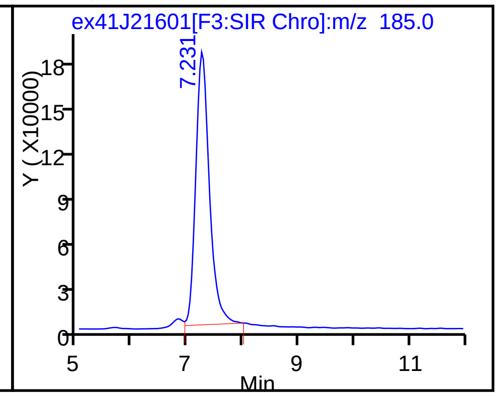
16 2-Amino-4,6-dinitrotoluene (ND)



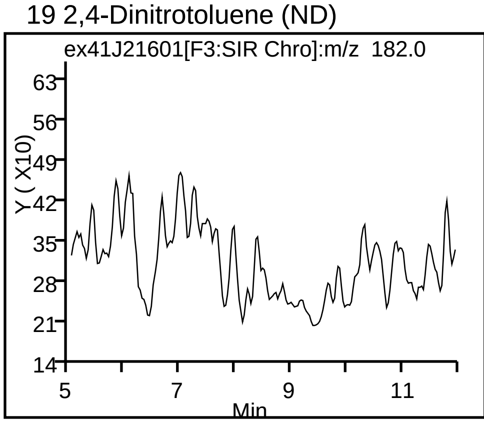
17 2,6-Dinitrotoluene (ND)



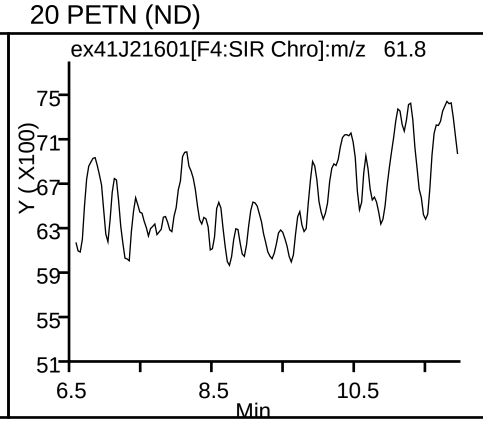
* 18 2,4-dinitrotoluene-d3



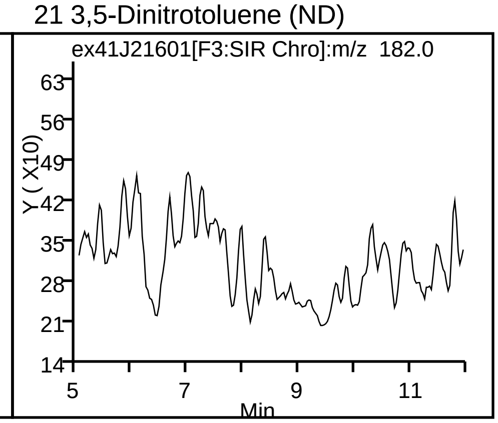
19 2,4-Dinitrotoluene (ND)



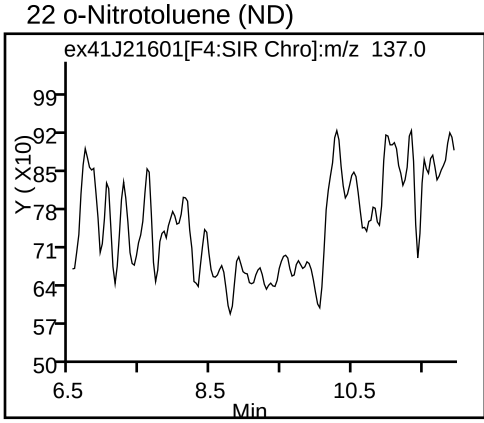
20 PETN (ND)



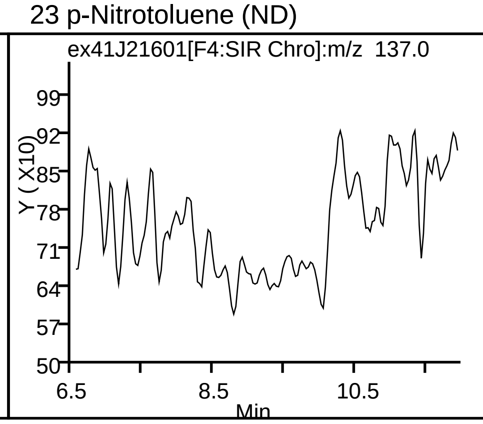
21 3,5-Dinitrotoluene (ND)



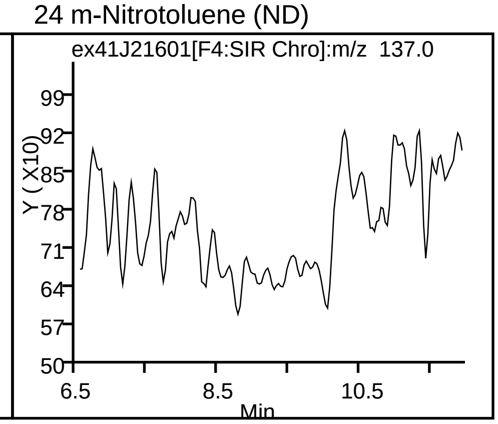
22 o-Nitrotoluene (ND)



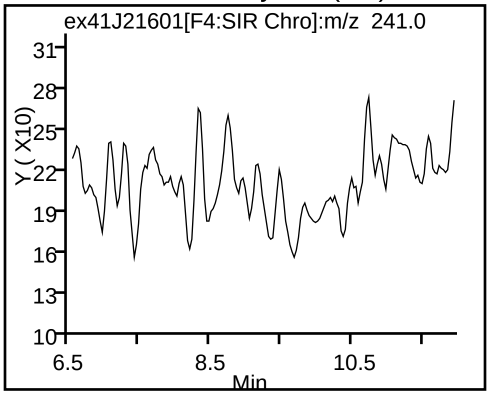
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG09 SB069 | Lab Sample ID: 280-21683-63

Matrix: Solid | Lab File ID: ex41J21602.d

Analysis Method: 8321B | Date Collected: 10/15/2011 16:01

Extraction Method: 8330B | Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.04(g) | Date Analyzed: 11/01/2011 20:49

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0082
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21602.d		
Lims ID:	280-21683-A-63-C	Client ID:	SB069
Inject. Date:	01-Nov-2011 20:49:54	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-63-C 280-0002689-126		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	65
Lims Batch ID:	94193	Lims Sample ID:	126
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:53	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		580491	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2039962	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1323226	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	506060	77.4			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3686827	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

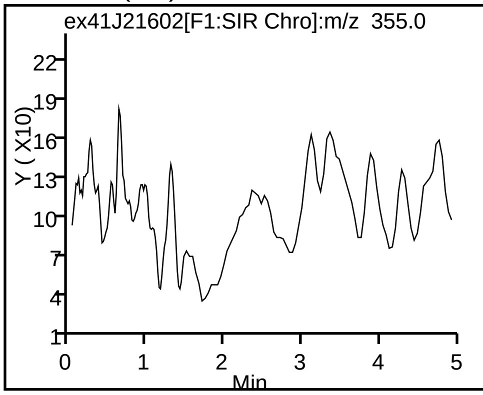
QC Flag Legend

Processing Flags
1 - Missing Peaks

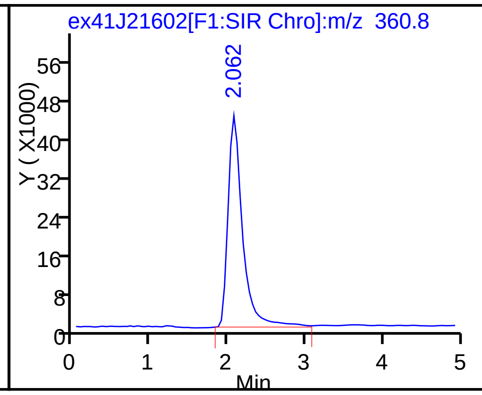
Report Date: 02-Nov-2011 06:47:59 | Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21602.d

Injection Date:	01-Nov-2011 20:49:54	Limit Group:	LC - 8321A Expl
Client ID:	SB069	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	126
Operator ID:		Injection Vol:	40.00 ul

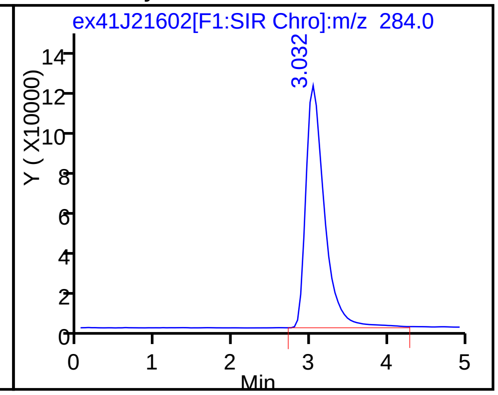
2 HMX (ND)



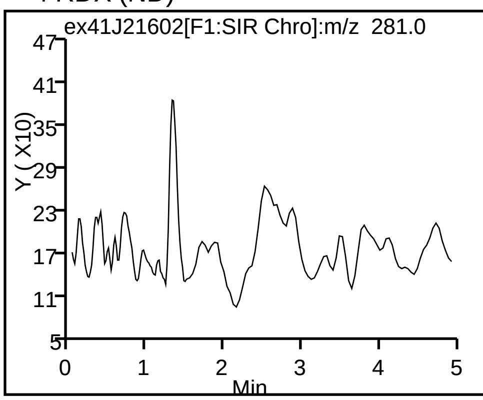
* 1 HMX-13C4



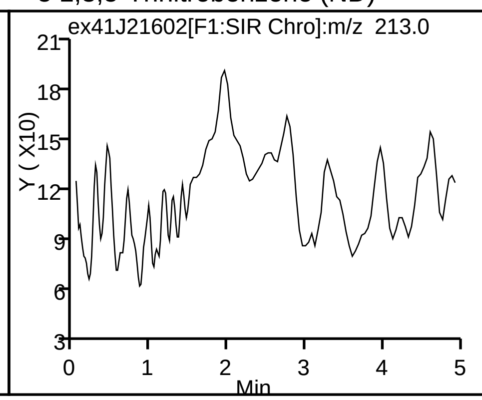
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



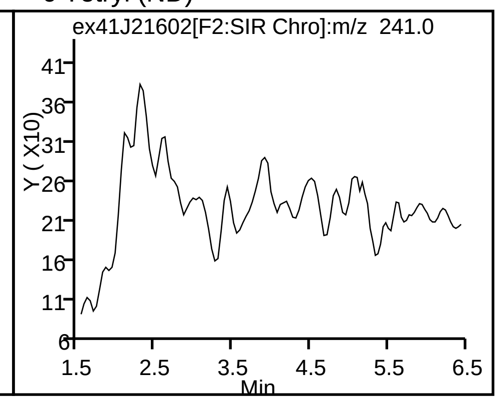
4 RDX (ND)



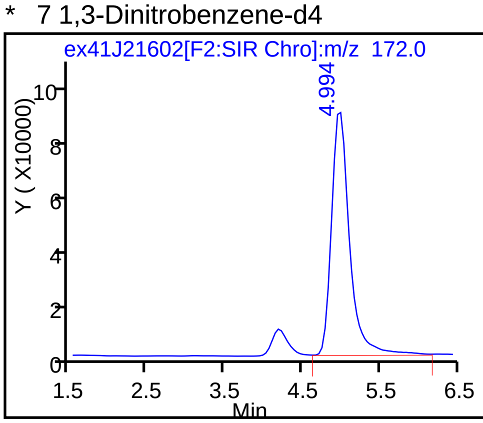
5 1,3,5-Trinitrobenzene (ND)



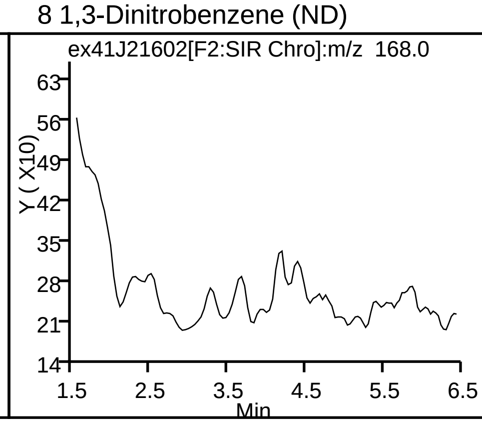
6 Tetryl (ND)



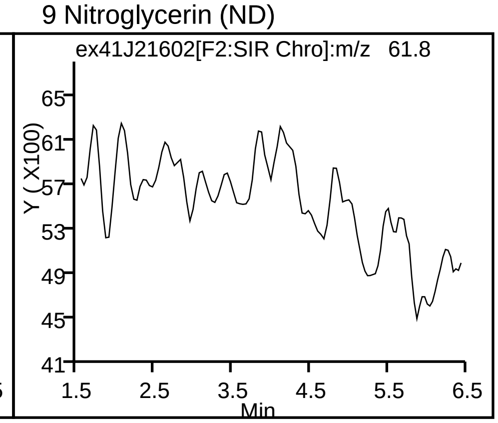
* 7 1,3-Dinitrobenzene-d4



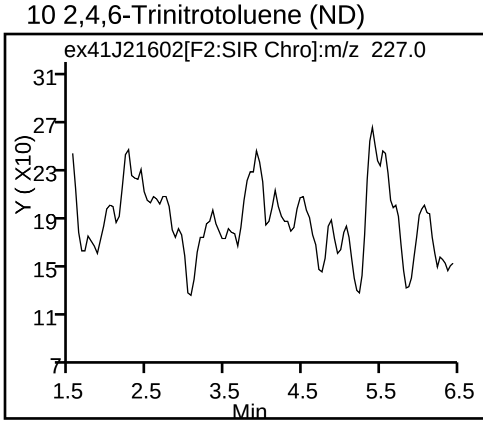
8 1,3-Dinitrobenzene (ND)



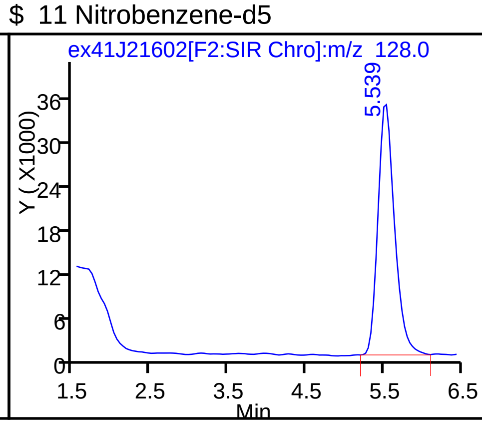
9 Nitroglycerin (ND)



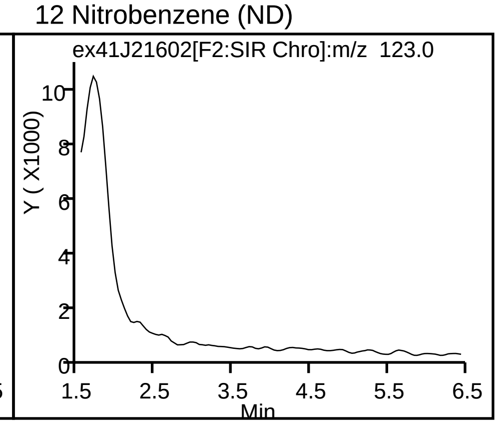
10 2,4,6-Trinitrotoluene (ND)



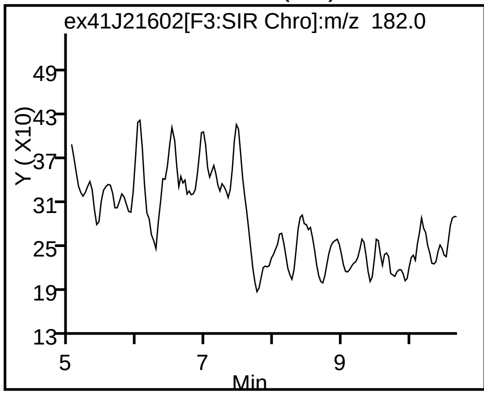
$ 11 Nitrobenzene-d5



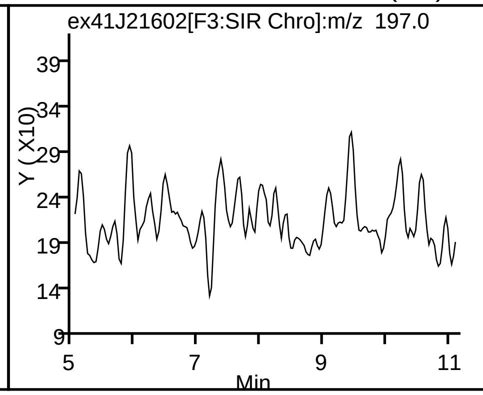
12 Nitrobenzene (ND)



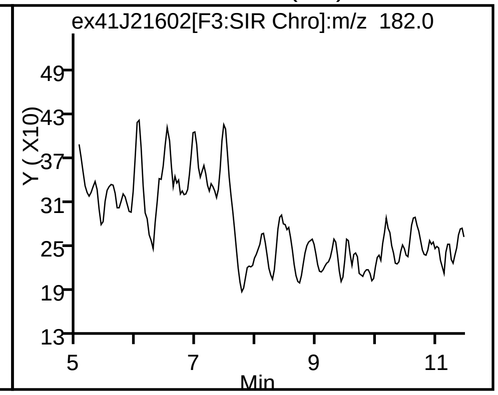
13 3,4-Dinitrotoluene (ND)



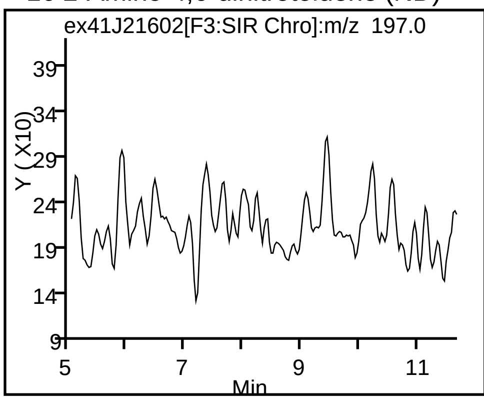
14 4-Amino-2,6-dinitrotoluene (ND)



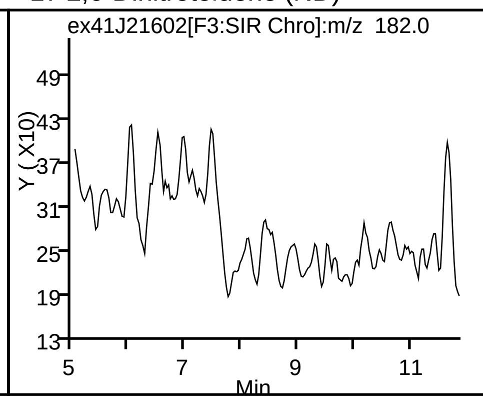
15 2,3-Dinitrotoluene (ND)



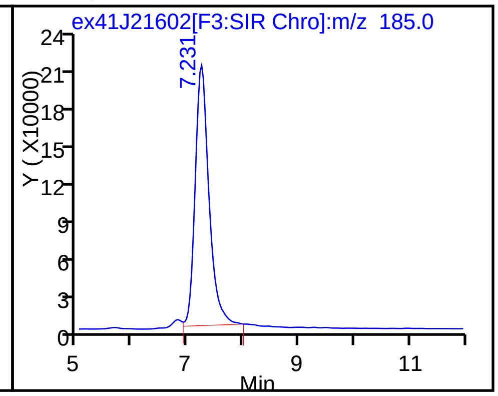
16 2-Amino-4,6-dinitrotoluene (ND)



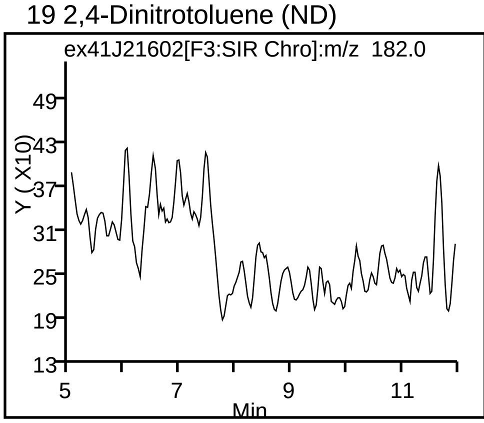
17 2,6-Dinitrotoluene (ND)



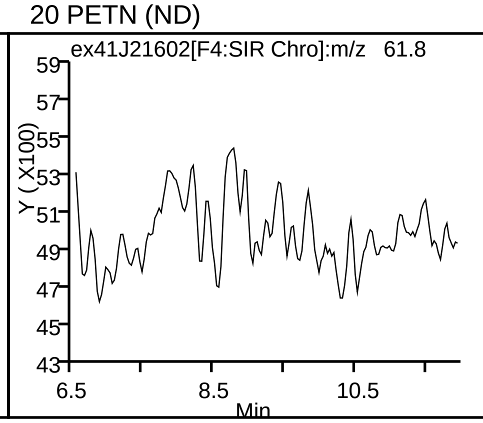
* 18 2,4-dinitrotoluene-d3



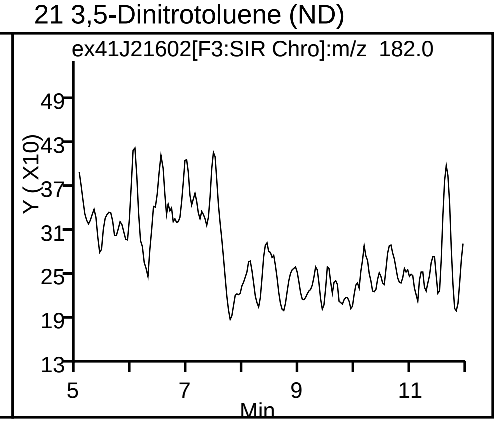
19 2,4-Dinitrotoluene (ND)



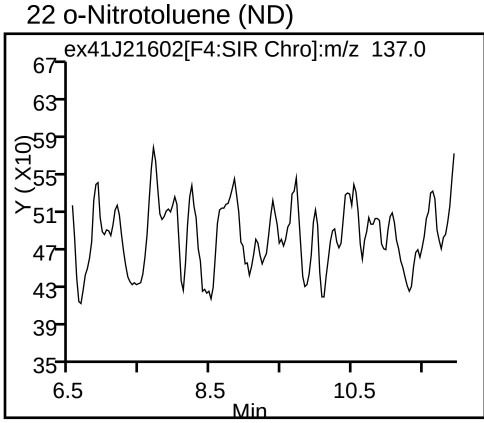
20 PETN (ND)



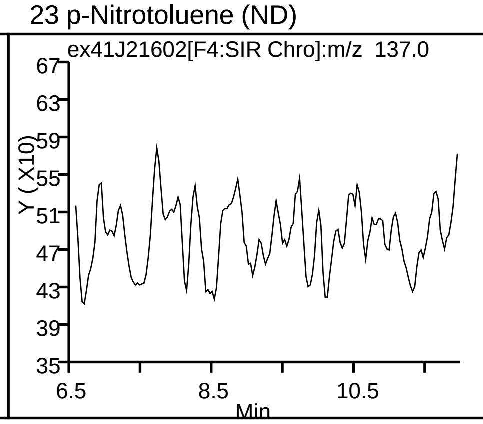
21 3,5-Dinitrotoluene (ND)



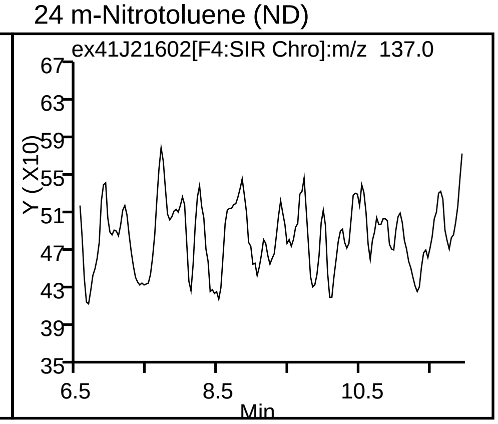
22 o-Nitrotoluene (ND)



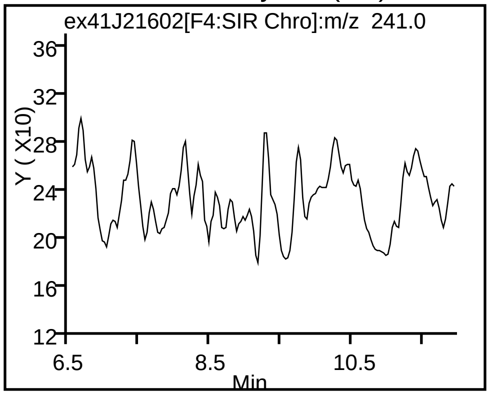
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-21683-1
SDG No.:
Client Sample ID: MG09 SB070
Lab Sample ID: 280-21683-64
Matrix: Solid
Lab File ID: ex41J21603.d
Analysis Method: 8321B
Date Collected: 10/15/2011 16:03
Extraction Method: 8330B
Date Extracted: 10/19/2011 19:21
Sample wt/vol: 10.33(g)
Date Analyzed: 11/01/2011 21:03
Con. Extract Vol.: 40(mL)
Dilution Factor: 1
Injection Volume: 40(uL)
GC Column: IonPac ID: 2(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 94193
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21603.d		
Lims ID:	280-21683-A-64-C	Client ID:	SB070
Inject. Date:	01-Nov-2011 21:03:29	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-64-C 280-0002689-127		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	66
Lims Batch ID:	94193	Lims Sample ID:	127
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:53	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 02-Nov-2011 06:45:07

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		578027	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1956261	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1420008	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	532939	75.9			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4148053	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

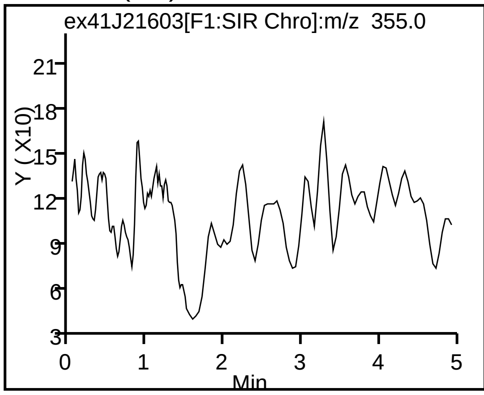
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:48:00 Chrom Revision: 1.2 13-Jul-2011 10:43:06

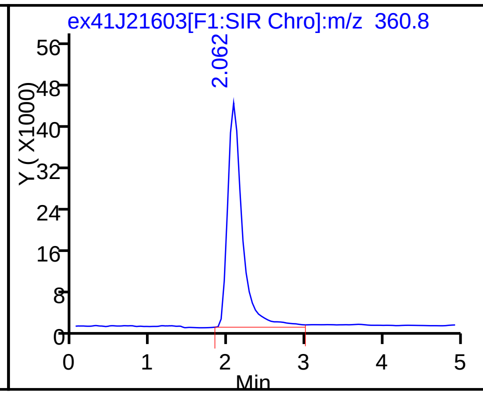
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21603.d

Injection Date:	01-Nov-2011 21:03:29	Limit Group:	LC - 8321A Expl
Client ID:	SB070	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	127
Operator ID:		Injection Vol:	40.00 ul

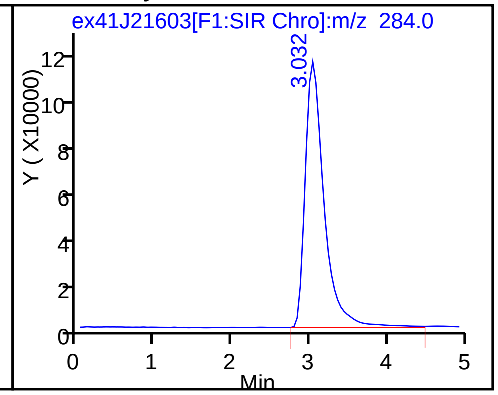
2 HMX (ND)



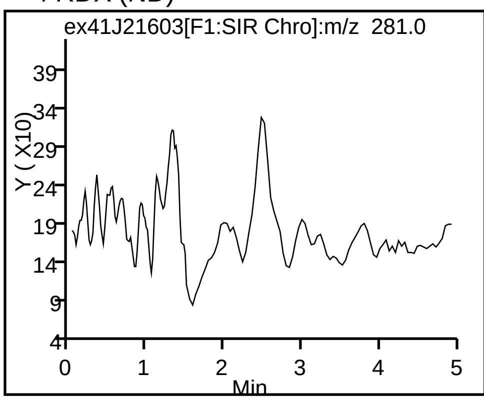
* 1 HMX-13C4



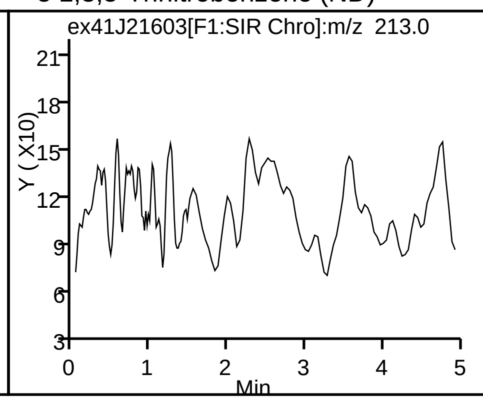
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



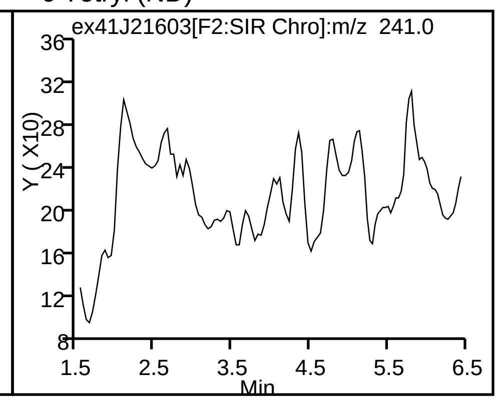
4 RDX (ND)



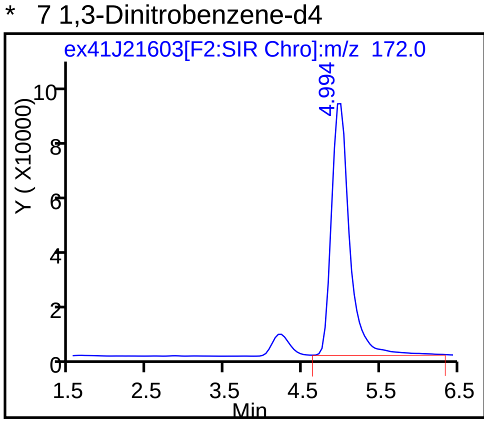
5 1,3,5-Trinitrobenzene (ND)



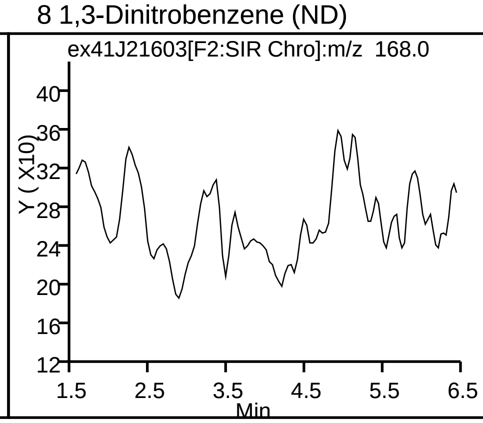
6 Tetryl (ND)



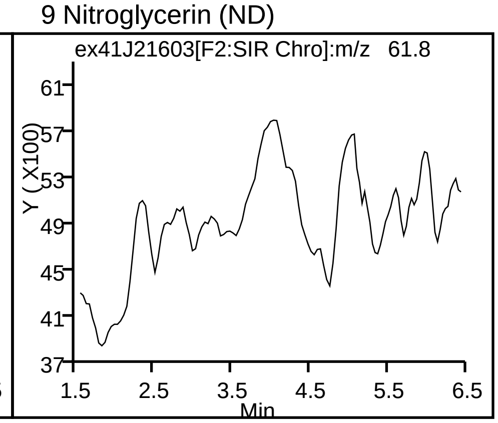
* 7 1,3-Dinitrobenzene-d4



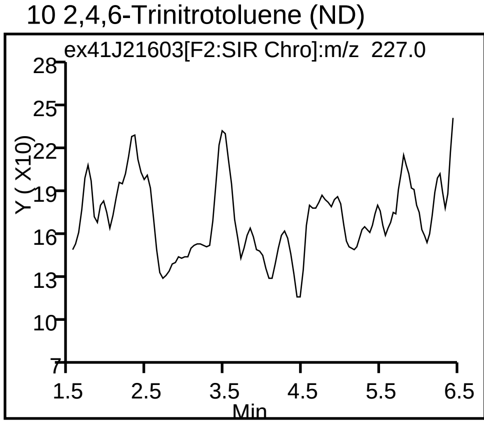
8 1,3-Dinitrobenzene (ND)



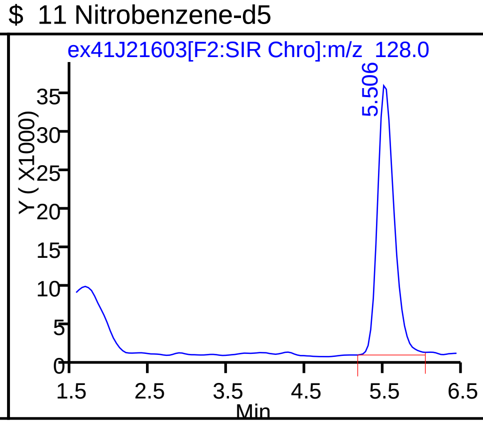
9 Nitroglycerin (ND)



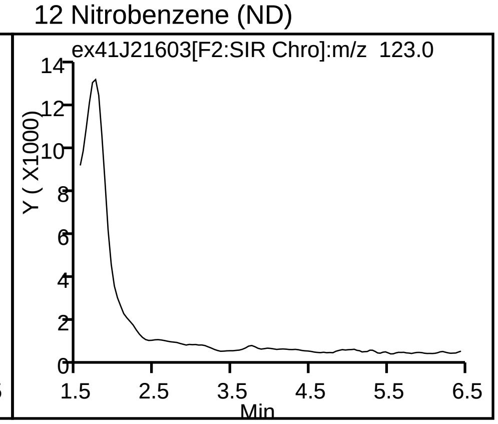
10 2,4,6-Trinitrotoluene (ND)



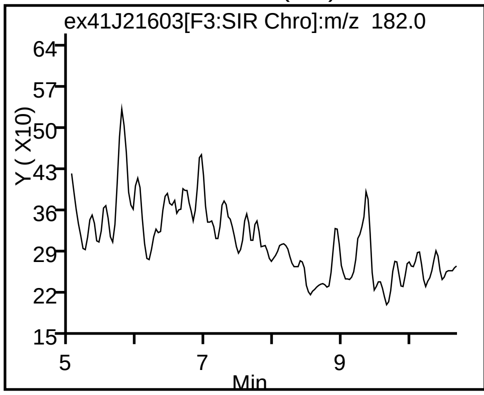
$ 11 Nitrobenzene-d5



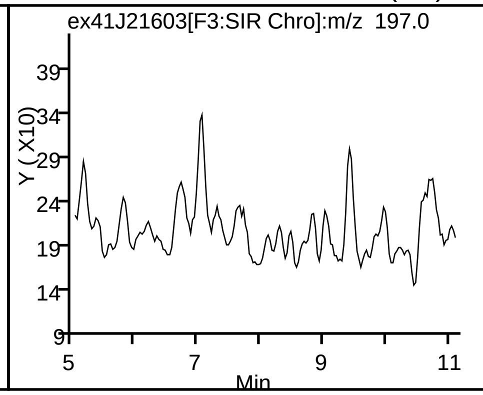
12 Nitrobenzene (ND)



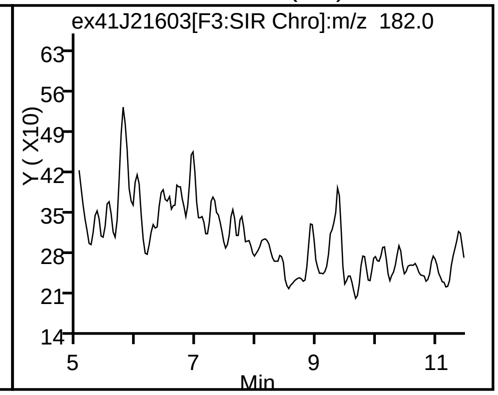
13 3,4-Dinitrotoluene (ND)



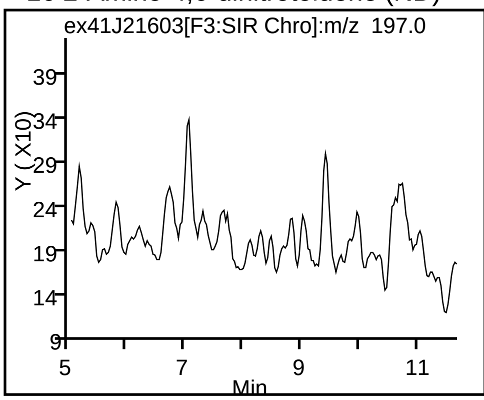
14 4-Amino-2,6-dinitrotoluene (ND)



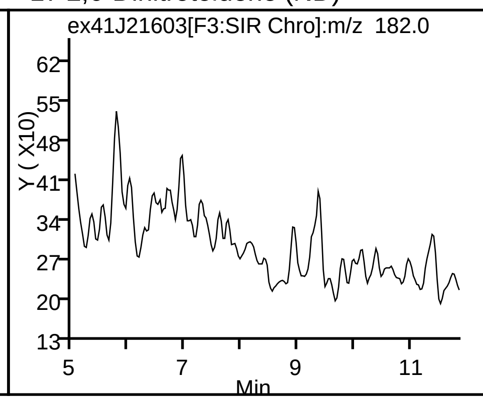
15 2,3-Dinitrotoluene (ND)



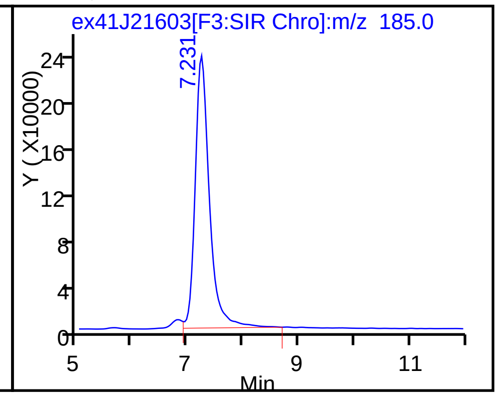
16 2-Amino-4,6-dinitrotoluene (ND)



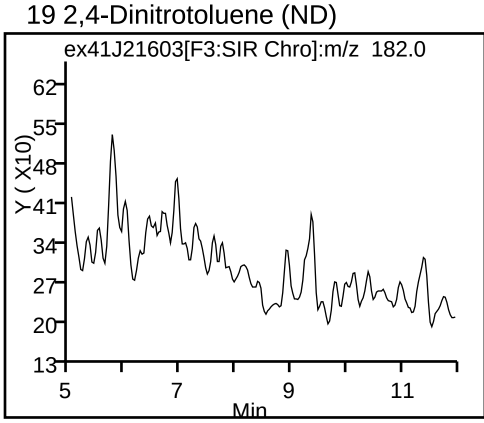
17 2,6-Dinitrotoluene (ND)



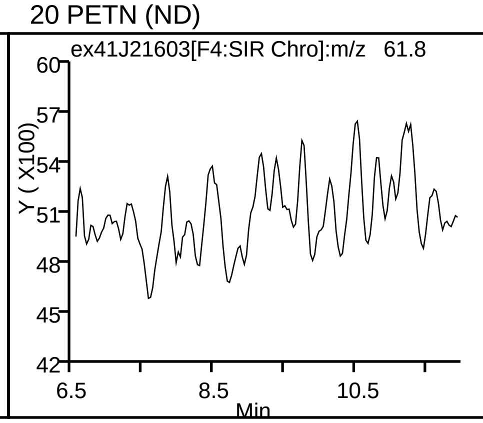
* 18 2,4-dinitrotoluene-d3



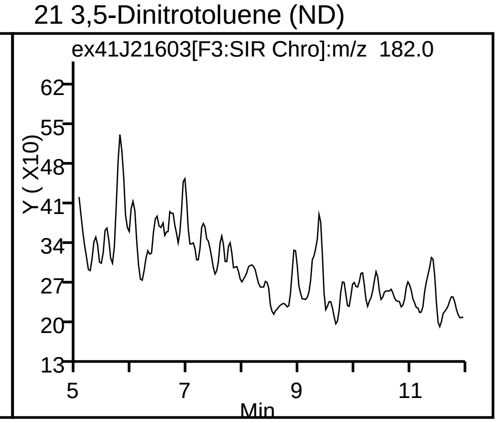
19 2,4-Dinitrotoluene (ND)



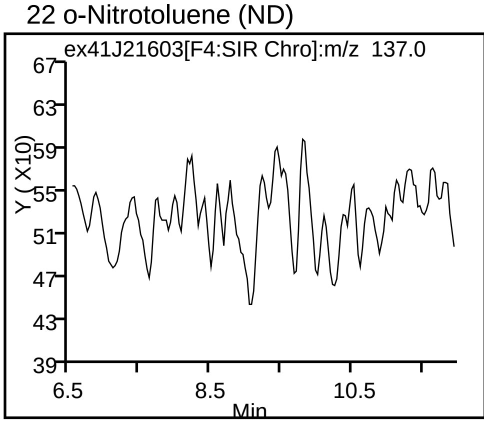
20 PETN (ND)



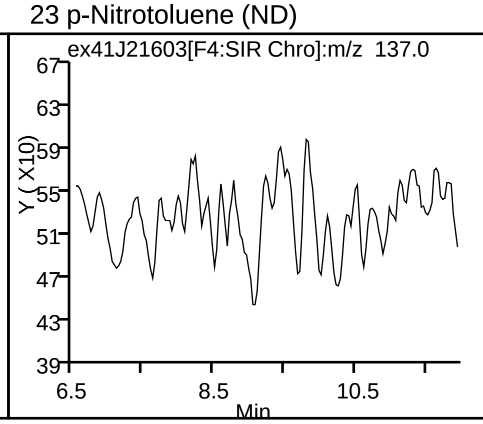
21 3,5-Dinitrotoluene (ND)



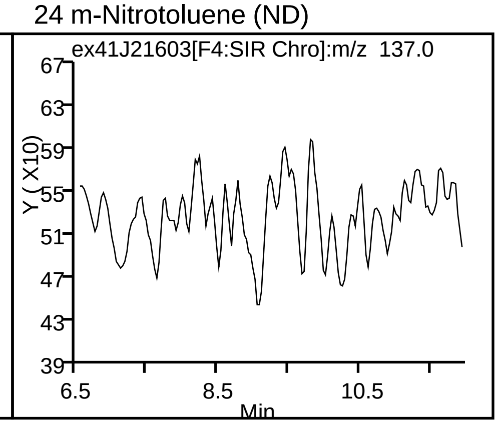
22 o-Nitrotoluene (ND)



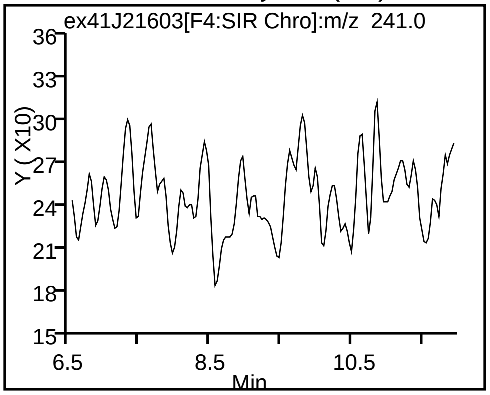
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG08 SB067 Lab Sample ID: 280-21683-65

Matrix: Solid Lab File ID: ex41J21605.d

Analysis Method: 8321B Date Collected: 10/15/2011 16:14

Extraction Method: 8330B Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.41(g) Date Analyzed: 11/01/2011 21:30

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	96		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21605.d		
Lims ID:	280-21683-B-65-B	Client ID:	SB067
Inject. Date:	01-Nov-2011 21:30:53	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-65-B 280-0002689-129		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	67
Lims Batch ID:	94193	Lims Sample ID:	129
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:48:00	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:45:33

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		540171	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2111984	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1259560	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	588976	94.8			
12 Nitrobenzene										1
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		4038412	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

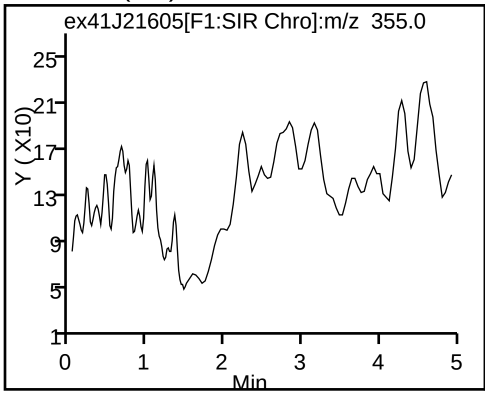
QC Flag Legend

Processing Flags
1 - Missing Peaks

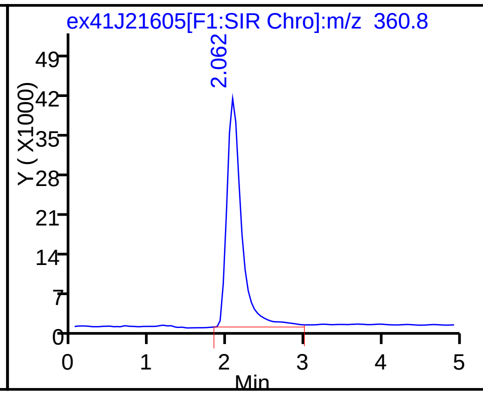
Report Date: 02-Nov-2011 06:48:02 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21605.d

Injection Date:	01-Nov-2011 21:30:53	Limit Group:	LC - 8321A Expl
Client ID:	SB067	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	129
Operator ID:		Injection Vol:	40.00 ul

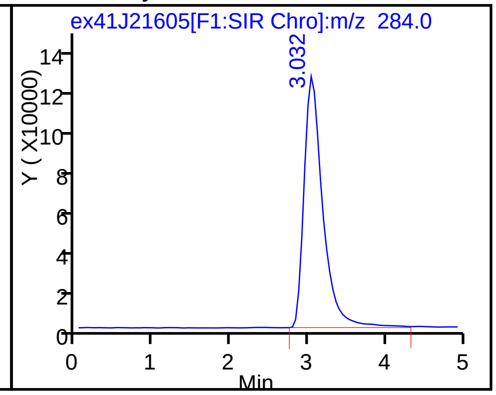
2 HMX (ND)



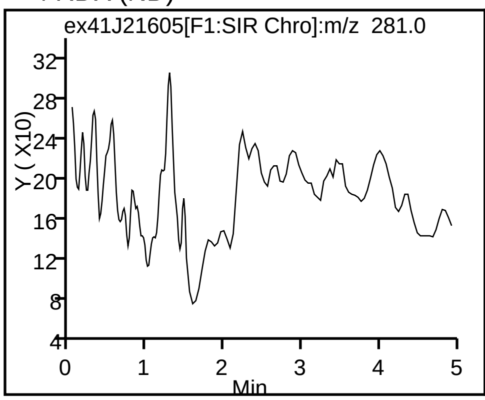
* 1 HMX-13C4



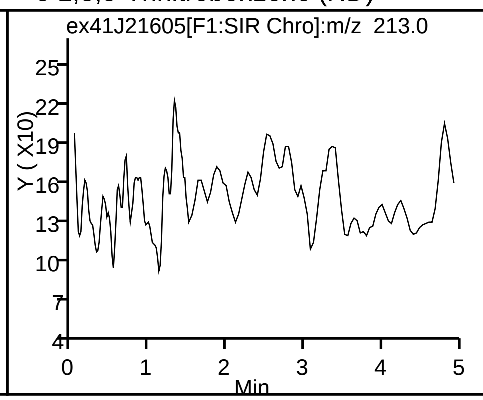
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



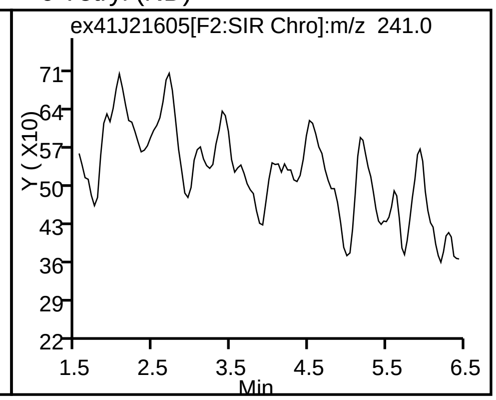
4 RDX (ND)



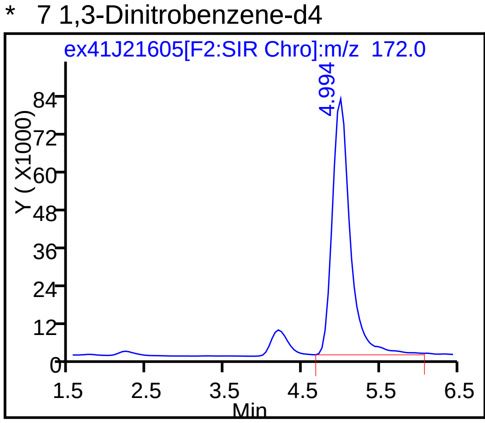
5 1,3,5-Trinitrobenzene (ND)



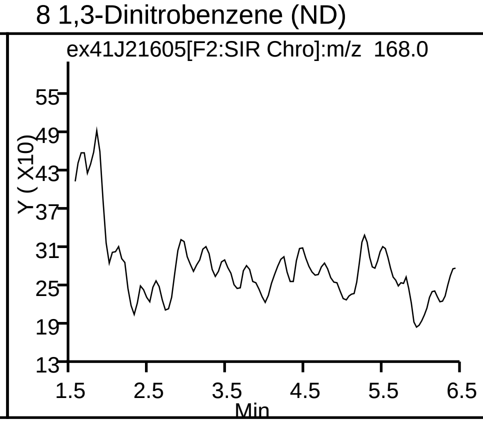
6 Tetryl (ND)



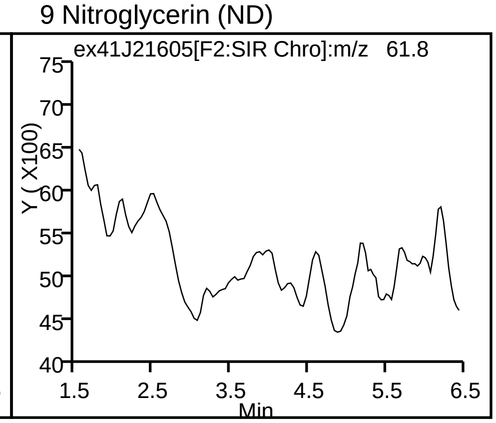
* 7 1,3-Dinitrobenzene-d4



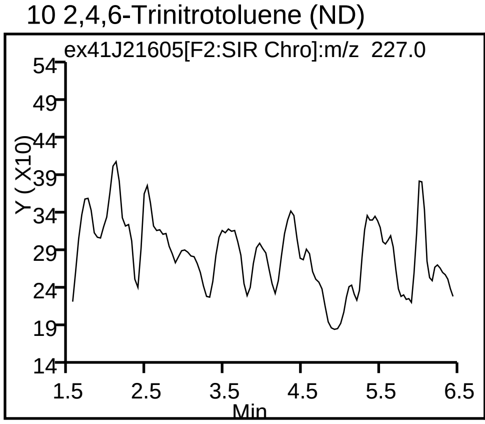
8 1,3-Dinitrobenzene (ND)



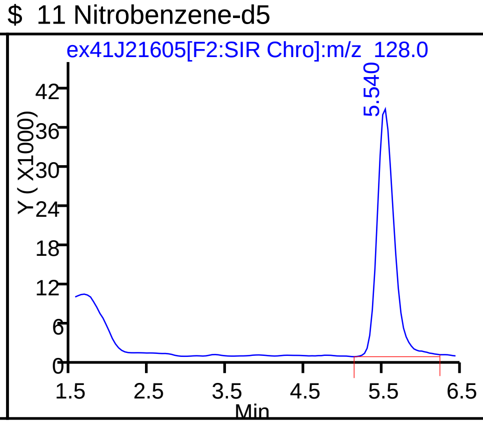
9 Nitroglycerin (ND)



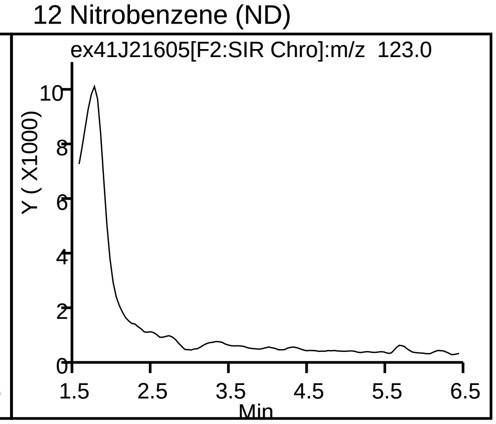
10 2,4,6-Trinitrotoluene (ND)



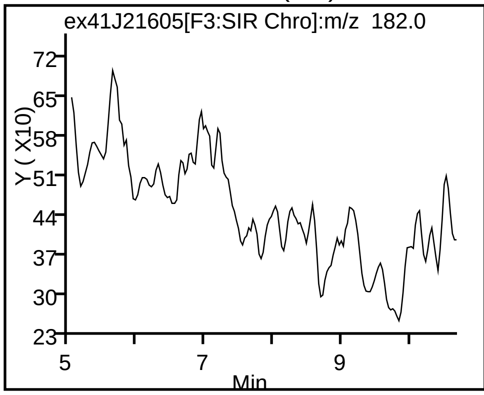
$ 11 Nitrobenzene-d5



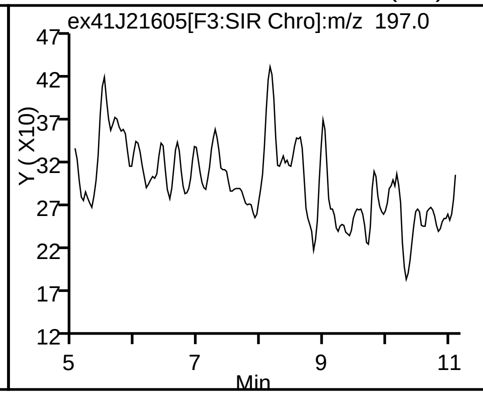
12 Nitrobenzene (ND)



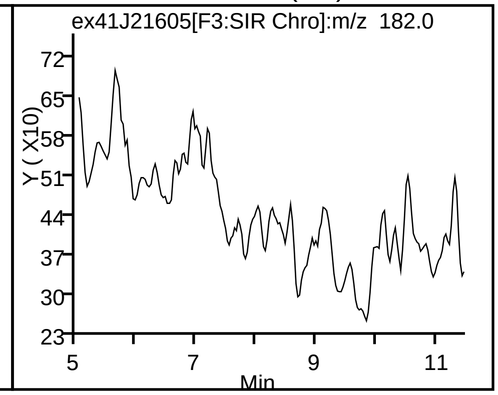
13 3,4-Dinitrotoluene (ND)



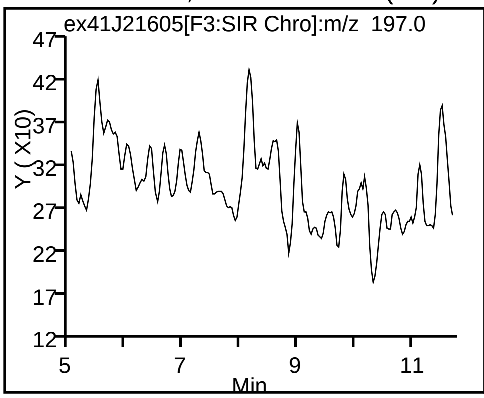
14 4-Amino-2,6-dinitrotoluene (ND)



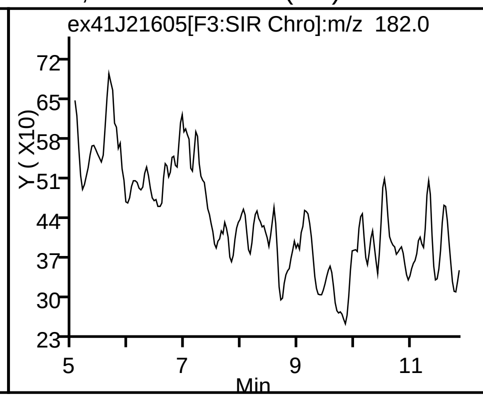
15 2,3-Dinitrotoluene (ND)



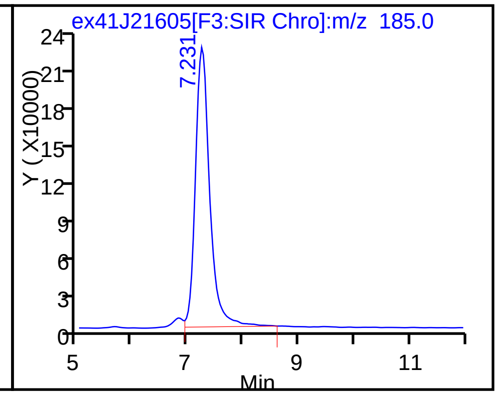
16 2-Amino-4,6-dinitrotoluene (ND)



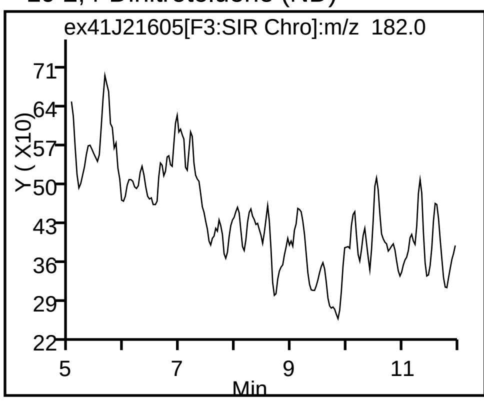
17 2,6-Dinitrotoluene (ND)



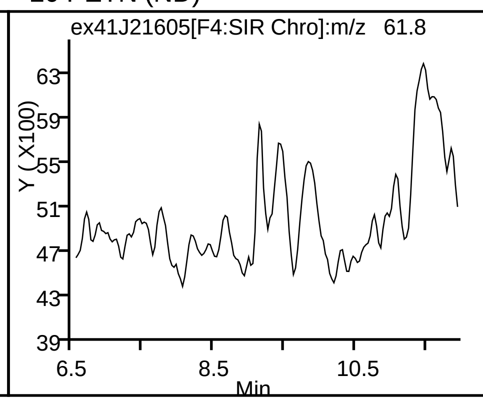
* 18 2,4-dinitrotoluene-d3



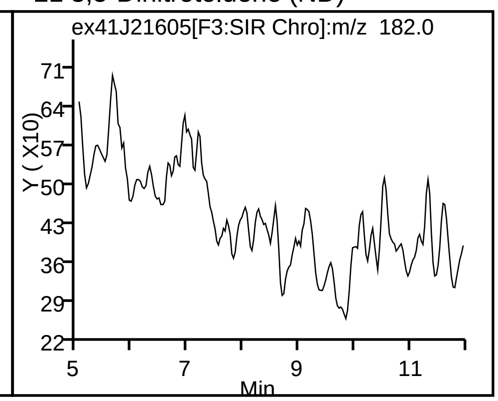
19 2,4-Dinitrotoluene (ND)



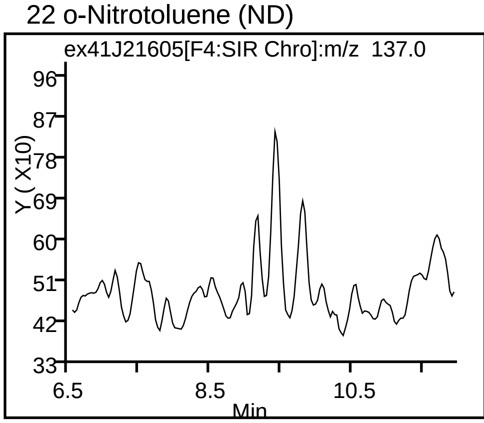
20 PETN (ND)



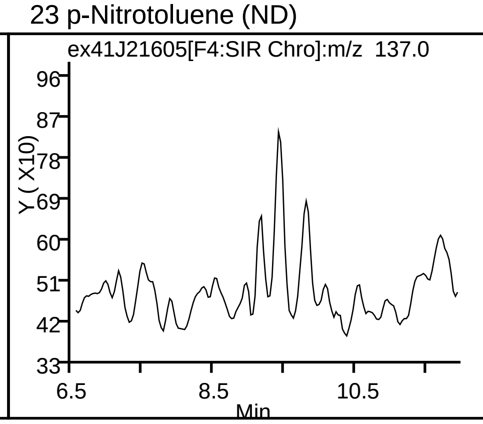
21 3,5-Dinitrotoluene (ND)



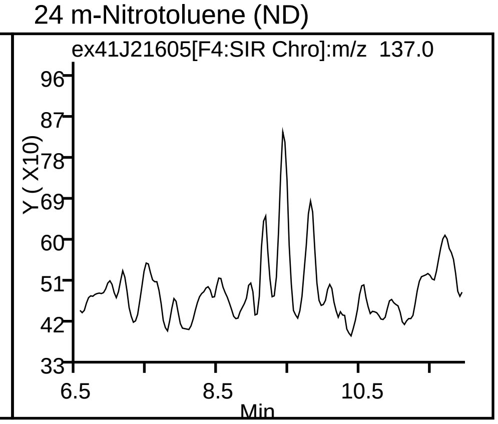
22 o-Nitrotoluene (ND)



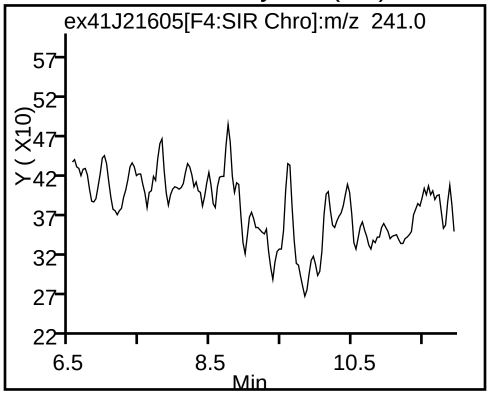
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver　　Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG08 SB068　　Lab Sample ID: 280-21683-66

Matrix: Solid　　Lab File ID: ex41J21606.d

Analysis Method: 8321B　　Date Collected: 10/15/2011 16:17

Extraction Method: 8330B　　Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.04(g)　　Date Analyzed: 11/01/2011 21:44

Con. Extract Vol.: 40(mL)　　Dilution Factor: 1

Injection Volume: 40(uL)　　GC Column: IonPac　　ID: 2(mm)

% Moisture:　　GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193　　Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0082
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	84		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21606.d		
Lims ID:	280-21683-B-66-B	Client ID:	SB068
Inject. Date:	01-Nov-2011 21:44:43	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-66-B 280-0002689-130		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	68
Lims Batch ID:	94193	Lims Sample ID:	130
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:48:00	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									1
1	355.0		2.062							
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		459432	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		1518378	250.0			
	4 RDX									1
1	281.0		3.032							
	5 1,3,5-Trinitrobenzene									1
1	213.0		3.759							
	6 Tetryl									1
2	241.0		4.509							
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.994	4.954	0.040		1227072	258.7			
	8 1,3-Dinitrobenzene									1
2	168.0		5.034							
	9 Nitroglycerin									
2	61.8		5.068							
	10 2,4,6-Trinitrotoluene									1
2	227.0		5.438							
$	11 Nitrobenzene-d5									
2	128.0	5.540	5.506	0.034	1.109	500954	82.7			
	12 Nitrobenzene									1
2	123.0		5.640							
	13 3,4-Dinitrotoluene									1
3	182.0		5.684							
	14 4-Amino-2,6-dinitrotoluene									1
3	197.0		6.122							
	15 2,3-Dinitrotoluene									1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		3962372	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0		8.284							
23 p-Nitrotoluene										
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

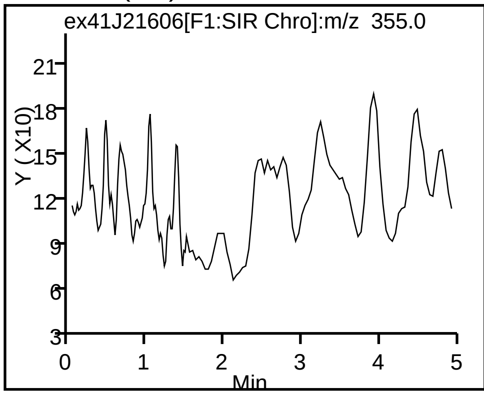
QC Flag Legend

Processing Flags
1 - Missing Peaks

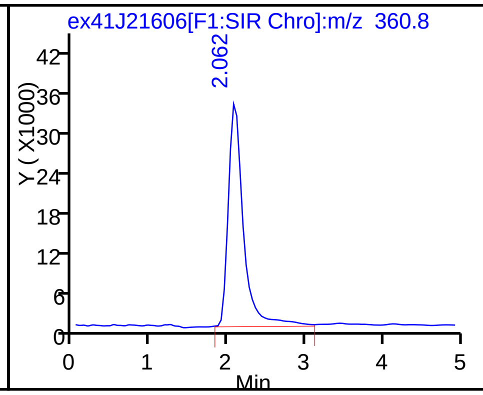
Report Date: 02-Nov-2011 06:48:02 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21606.d

Injection Date:	01-Nov-2011 21:44:43	Limit Group:	LC - 8321A Expl
Client ID:	SB068	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	130
Operator ID:		Injection Vol:	40.00 ul

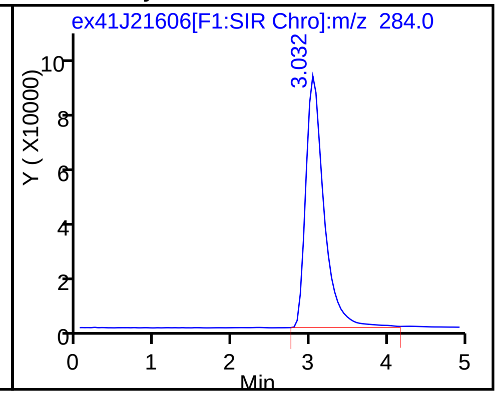
2 HMX (ND)



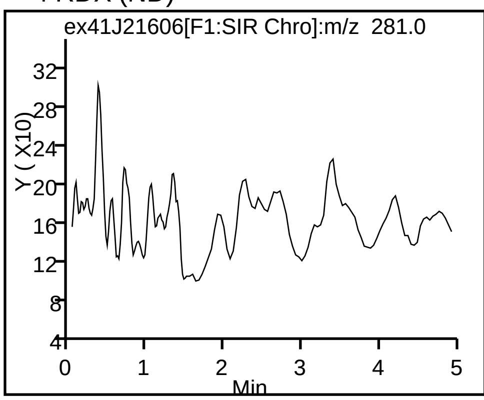
* 1 HMX-13C4



* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



4 RDX (ND)



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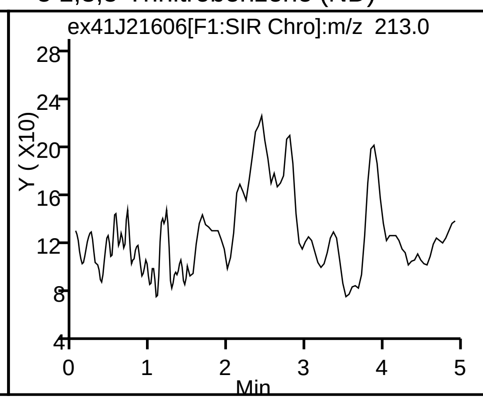
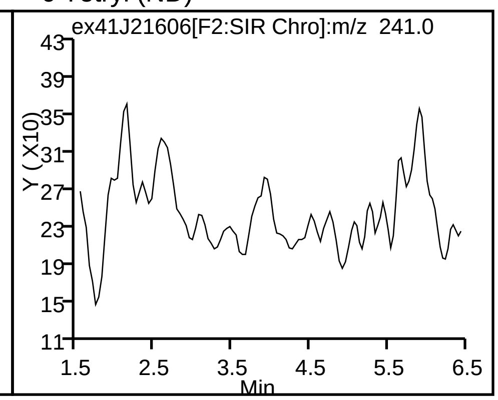
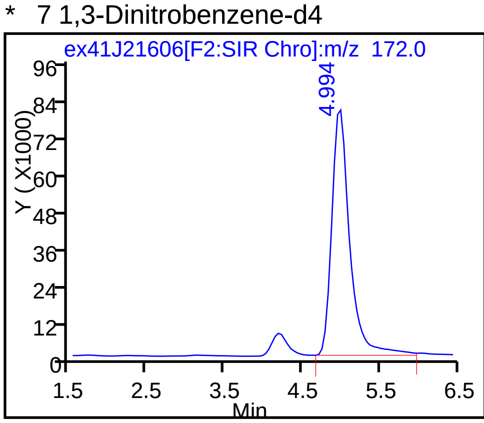


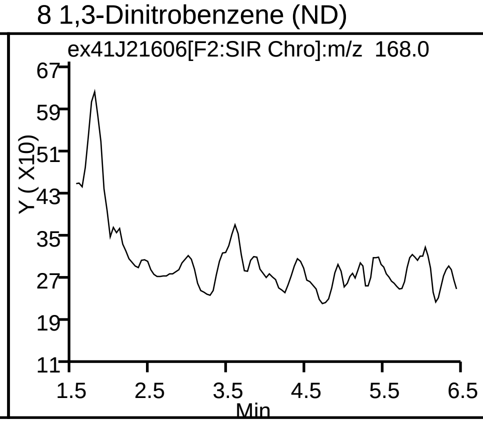
6 Tetryl (ND)



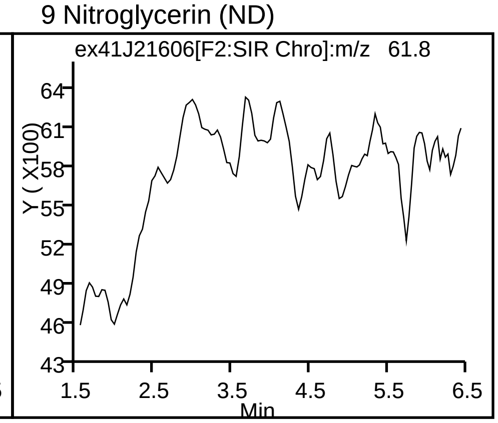
* 7 1,3-Dinitrobenzene-d4



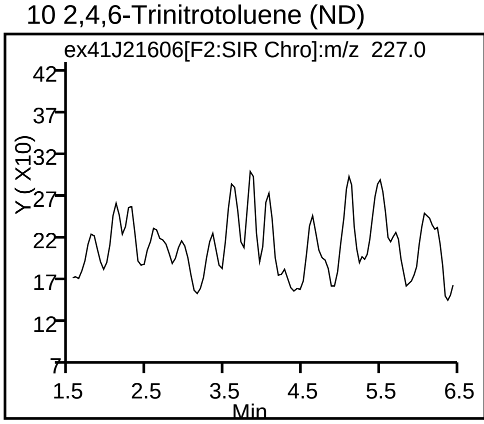
8 1,3-Dinitrobenzene (ND)



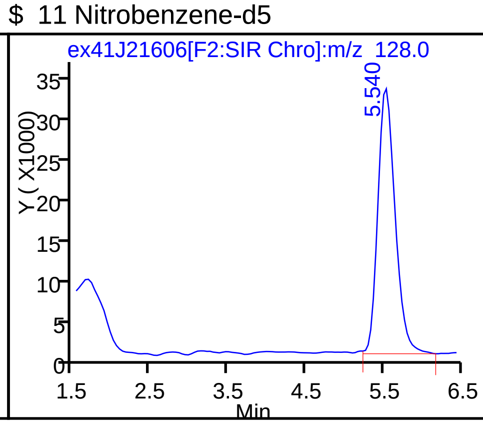
9 Nitroglycerin (ND)



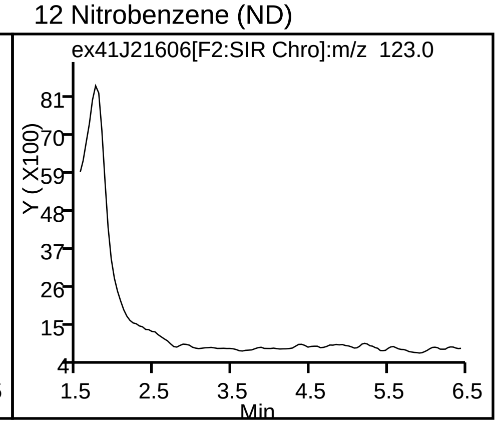
10 2,4,6-Trinitrotoluene (ND)



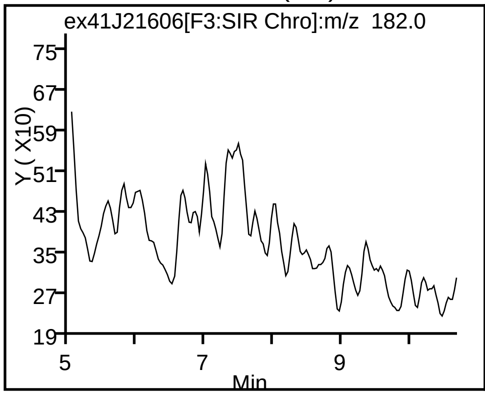
$ 11 Nitrobenzene-d5



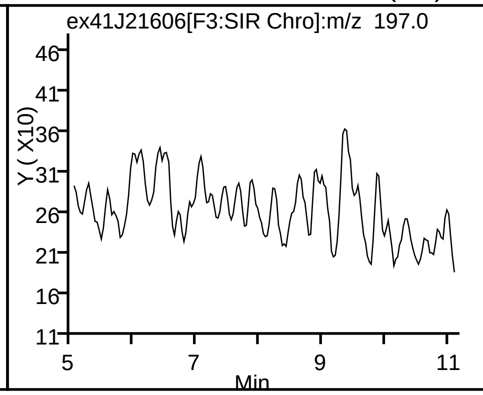
12 Nitrobenzene (ND)



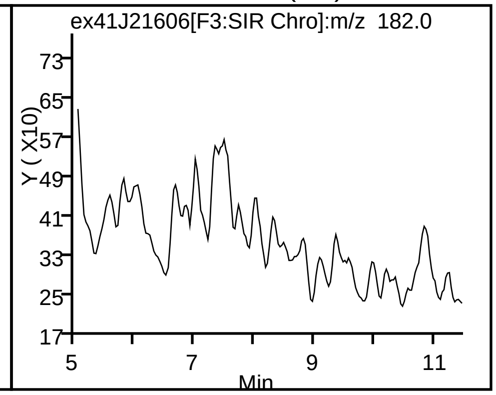
13 3,4-Dinitrotoluene (ND)



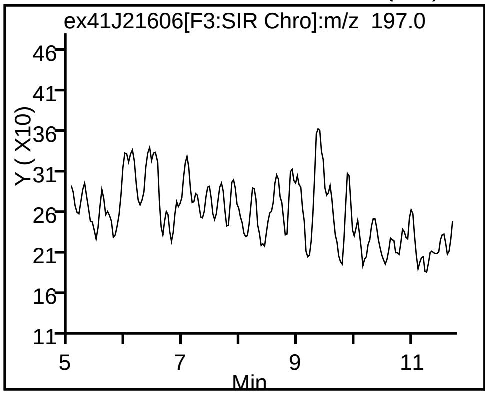
14 4-Amino-2,6-dinitrotoluene (ND)



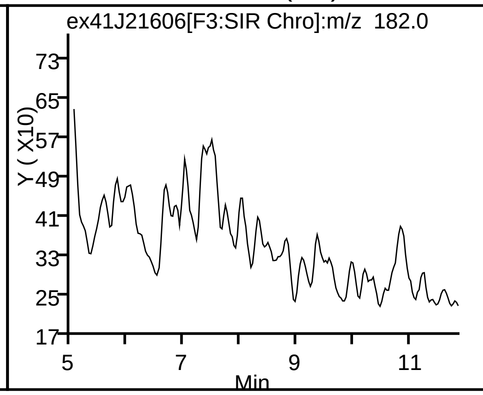
15 2,3-Dinitrotoluene (ND)



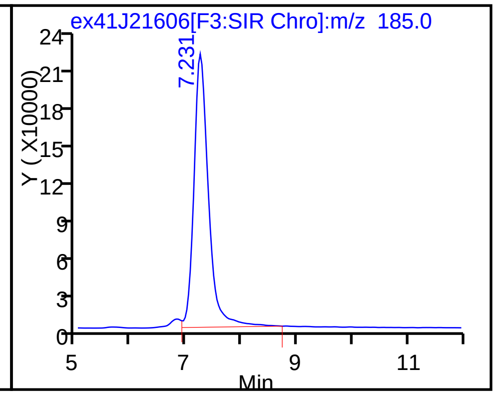
16 2-Amino-4,6-dinitrotoluene (ND)



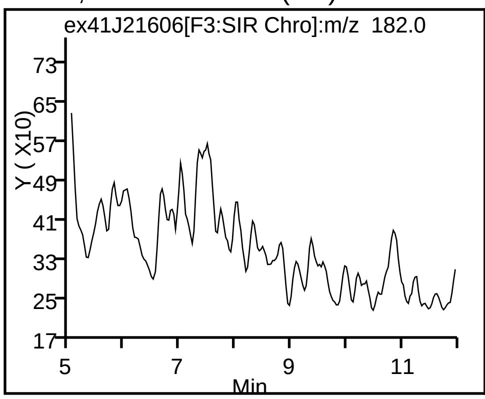
17 2,6-Dinitrotoluene (ND)



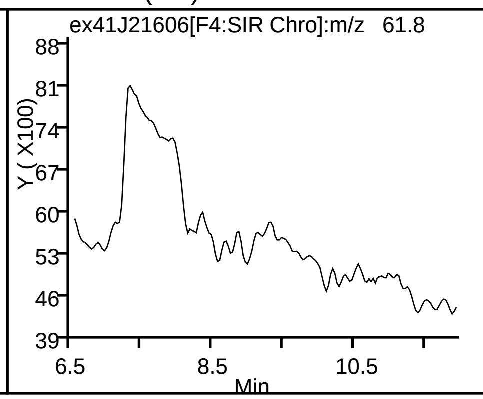
* 18 2,4-dinitrotoluene-d3



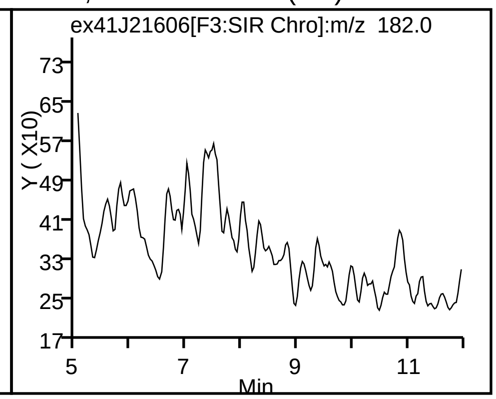
19 2,4-Dinitrotoluene (ND)



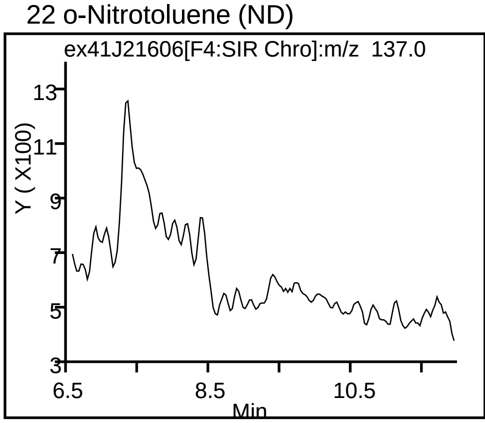
20 PETN (ND)



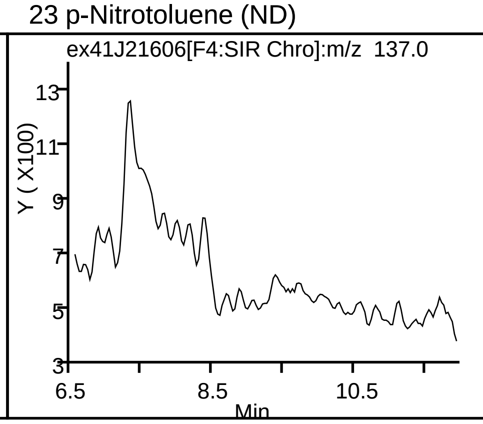
21 3,5-Dinitrotoluene (ND)



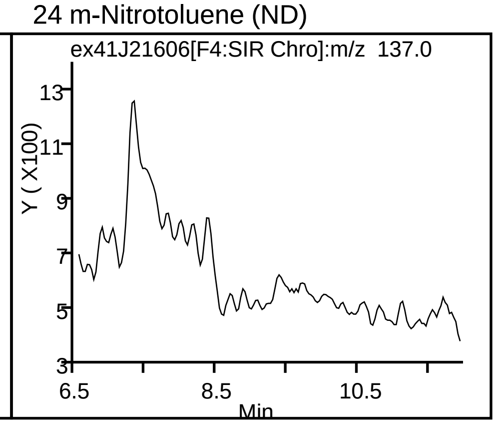
22 o-Nitrotoluene (ND)



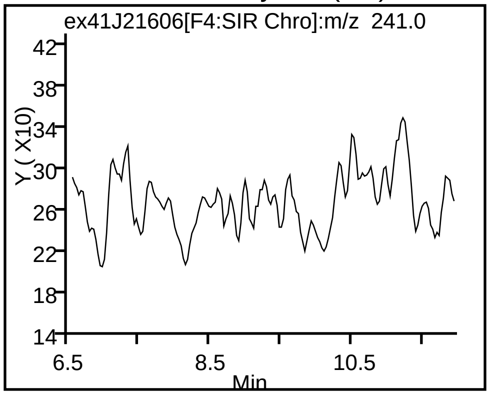
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG07 SB065   Lab Sample ID: 280-21683-67

Matrix: Solid   Lab File ID: ex41J21607.d

Analysis Method: 8321B   Date Collected: 10/15/2011 16:28

Extraction Method: 8330B   Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.12(g)   Date Analyzed: 11/01/2011 21:58

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21607.d		
Lims ID:	280-21683-A-67-C	Client ID:	SB065
Inject. Date:	01-Nov-2011 21:58:17	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-67-C 280-0002689-131		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	69
Lims Batch ID:	94193	Lims Sample ID:	131
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:48:00	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		591139	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2139022	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1344376	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										1
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	522083	78.6			
12 Nitrobenzene										1
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.715							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.201	0.030		4091681	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.292							
20	PETN									1
4	61.8		7.768							
21	3,5-Dinitrotoluene									1
3	182.0		7.899							
22	o-Nitrotoluene									1
4	137.0		8.284							
23	p-Nitrotoluene									1
4	137.0		8.830							
24	m-Nitrotoluene									1
4	137.0		9.499							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.379							

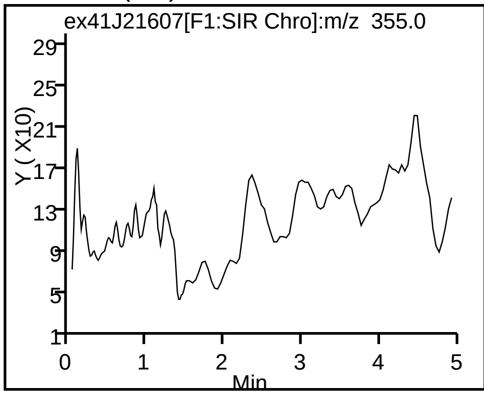
QC Flag Legend

Processing Flags
1 - Missing Peaks

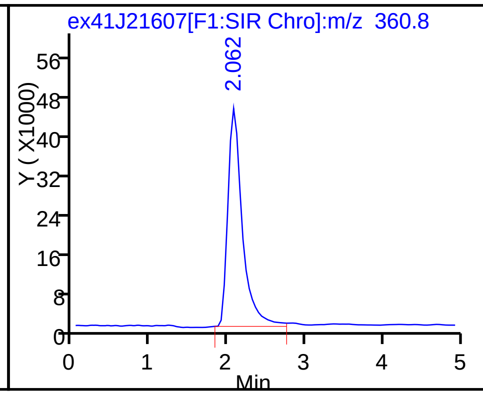
Report Date: 02-Nov-2011 06:48:03 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21607.d

Injection Date:	01-Nov-2011 21:58:17	Limit Group:	LC - 8321A Expl
Client ID:	SB065	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	131
Operator ID:		Injection Vol:	40.00 ul

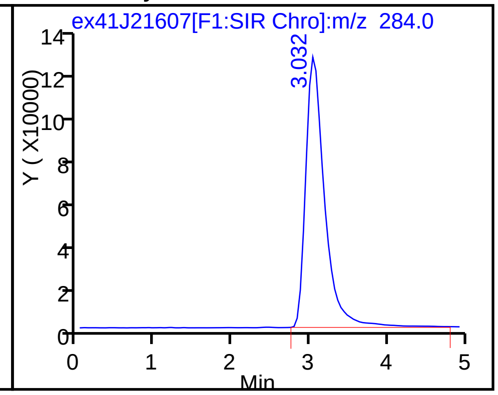
2 HMX (ND)



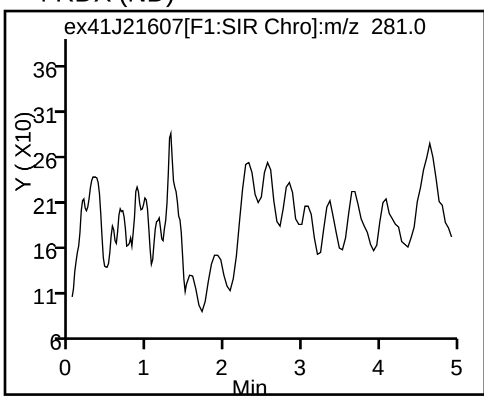
* 1 HMX-13C4



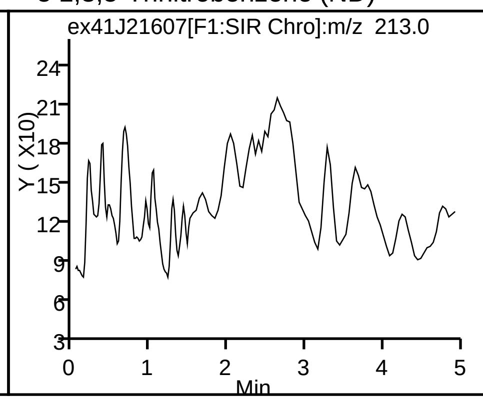
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



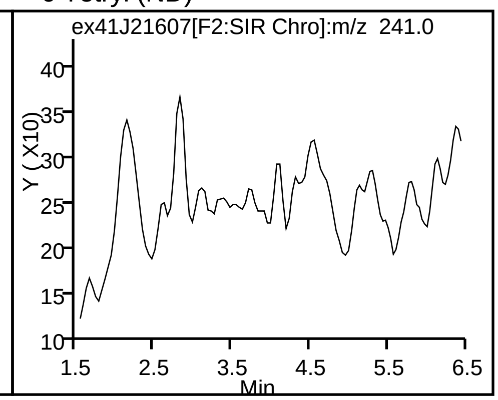
4 RDX (ND)



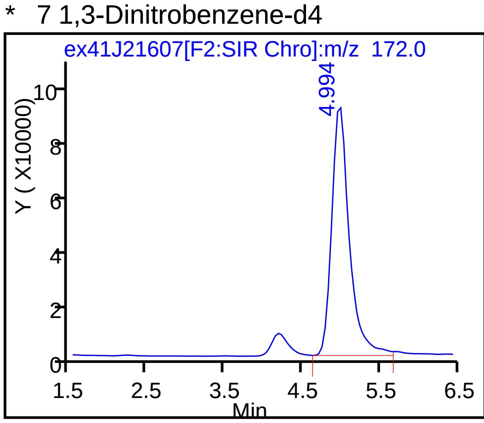
5 1,3,5-Trinitrobenzene (ND)



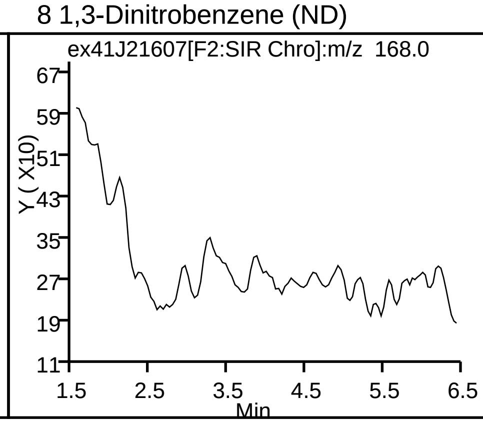
6 Tetryl (ND)



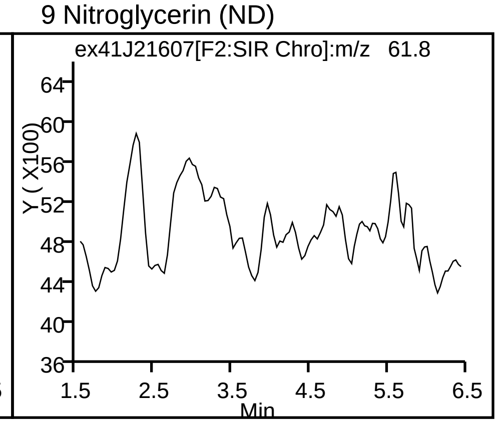
* 7 1,3-Dinitrobenzene-d4



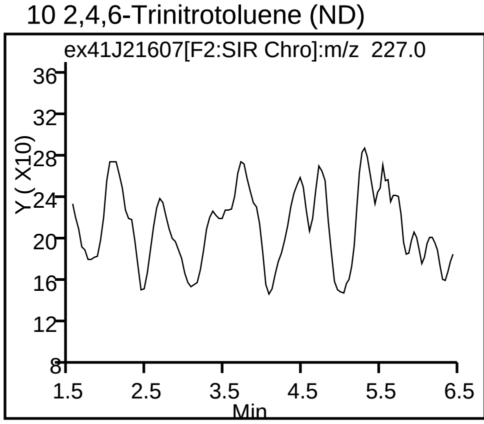
8 1,3-Dinitrobenzene (ND)



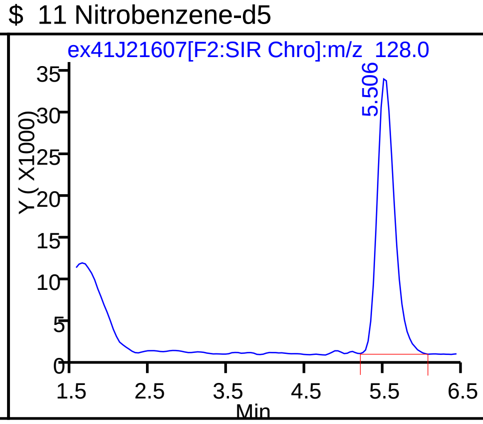
9 Nitroglycerin (ND)



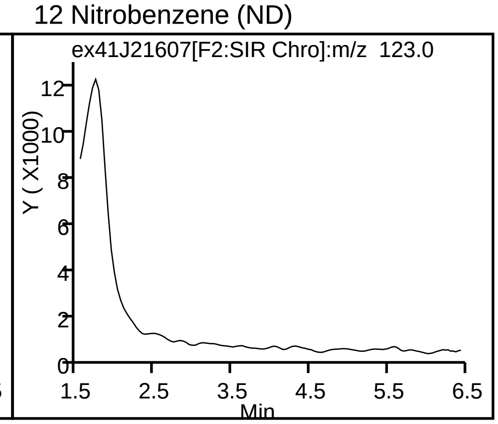
10 2,4,6-Trinitrotoluene (ND)



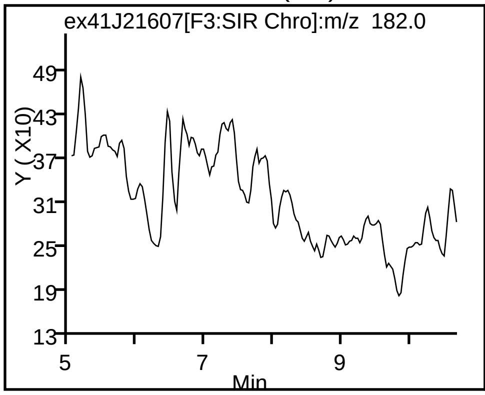
$ 11 Nitrobenzene-d5



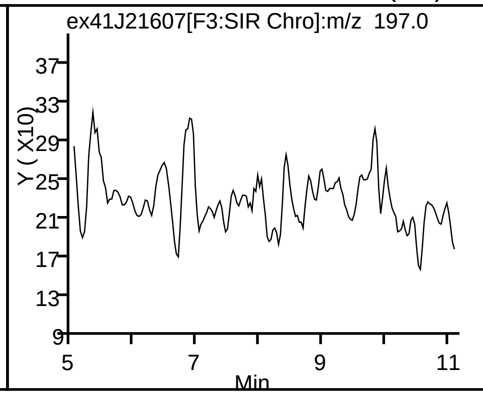
12 Nitrobenzene (ND)



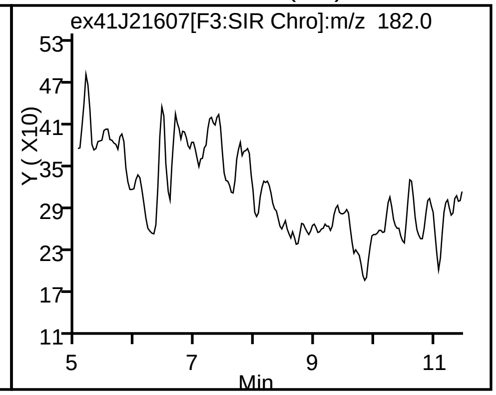
13 3,4-Dinitrotoluene (ND)



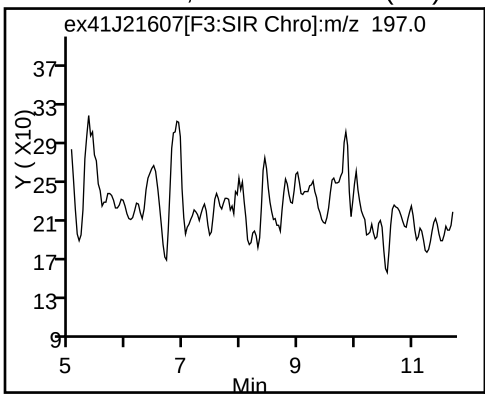
14 4-Amino-2,6-dinitrotoluene (ND)



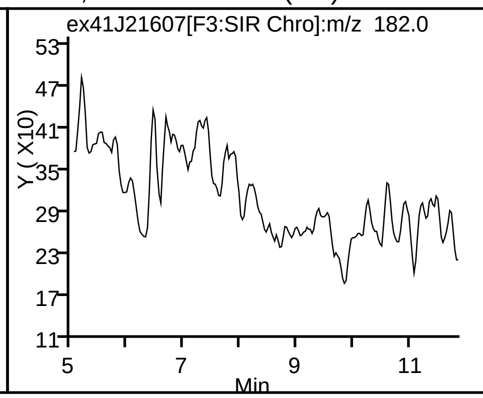
15 2,3-Dinitrotoluene (ND)



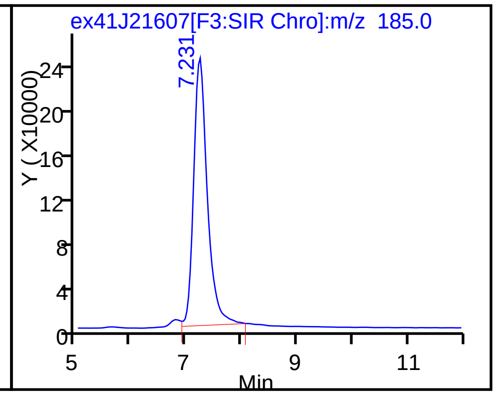
16 2-Amino-4,6-dinitrotoluene (ND)



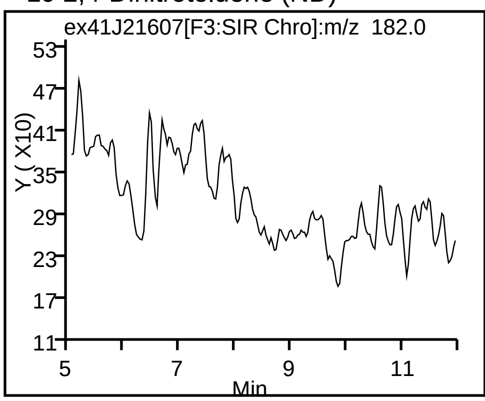
17 2,6-Dinitrotoluene (ND)



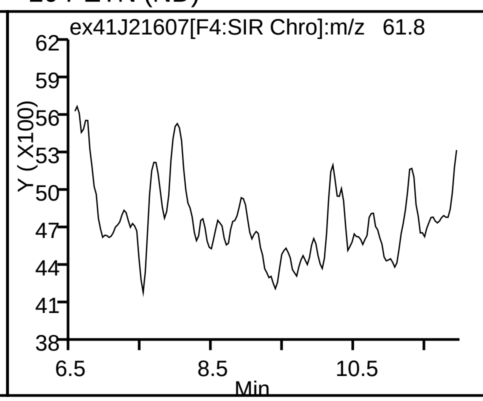
* 18 2,4-dinitrotoluene-d3



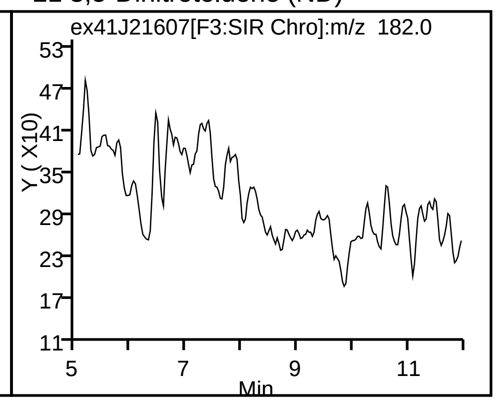
19 2,4-Dinitrotoluene (ND)



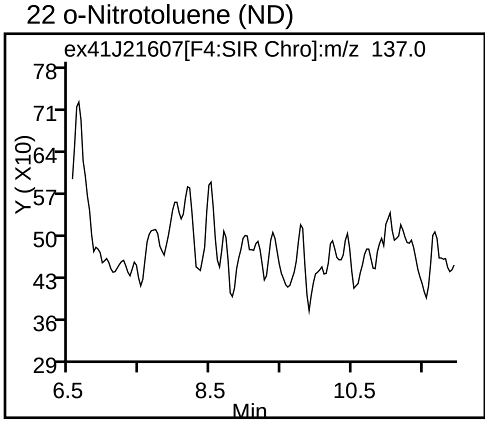
20 PETN (ND)



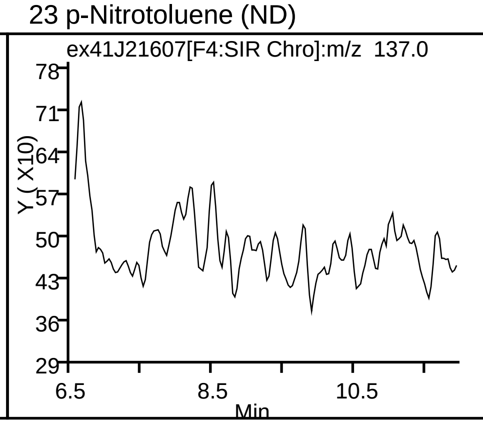
21 3,5-Dinitrotoluene (ND)



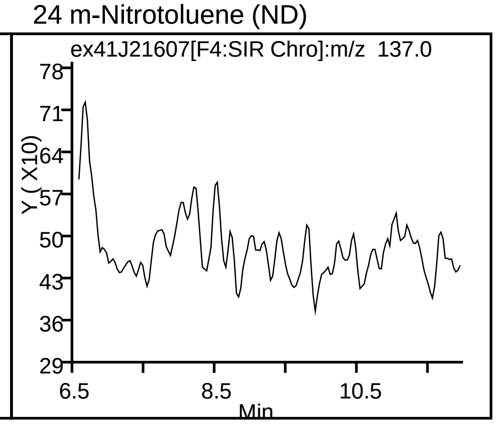
22 o-Nitrotoluene (ND)



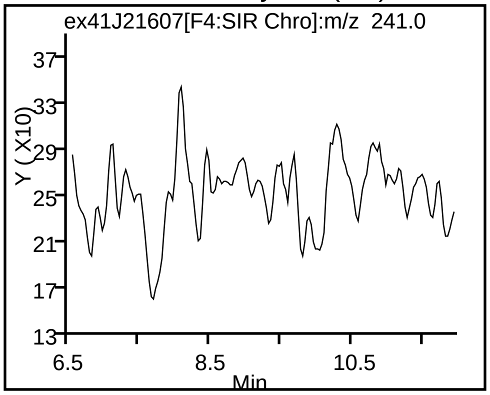
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG07 SB066   Lab Sample ID: 280-21683-68

Matrix: Solid   Lab File ID: ex41J21608.d

Analysis Method: 8321B   Date Collected: 10/15/2011 16:29

Extraction Method: 8330B   Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.53(g)   Date Analyzed: 11/01/2011 22:11

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21608.d		
Lims ID:	280-21683-A-68-C	Client ID:	SB066
Inject. Date:	01-Nov-2011 22:11:50	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-68-C 280-0002689-132		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	70
Lims Batch ID:	94193	Lims Sample ID:	132
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:48:00	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		580635	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1935082	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1181151	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										1
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	487476	83.6			
12 Nitrobenzene										1
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.715							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.201	0.030		3556589	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.292							
20	PETN									1
4	61.8		7.768							
21	3,5-Dinitrotoluene									1
3	182.0		7.899							
22	o-Nitrotoluene									1
4	137.0		8.284							
23	p-Nitrotoluene									1
4	137.0		8.830							
24	m-Nitrotoluene									1
4	137.0		9.499							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.379							

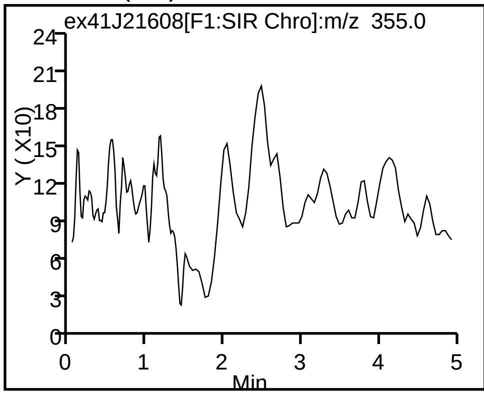
QC Flag Legend

Processing Flags
1 - Missing Peaks

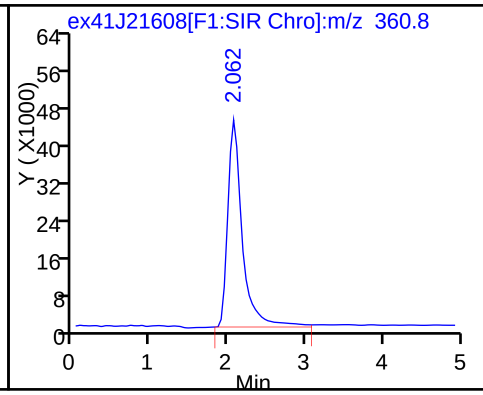
Report Date: 02-Nov-2011 06:48:04 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21608.d		
Injection Date:	01-Nov-2011 22:11:50	Limit Group:	LC - 8321A Expl
Client ID:	SB066	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	132
Operator ID:		Injection Vol:	40.00 ul

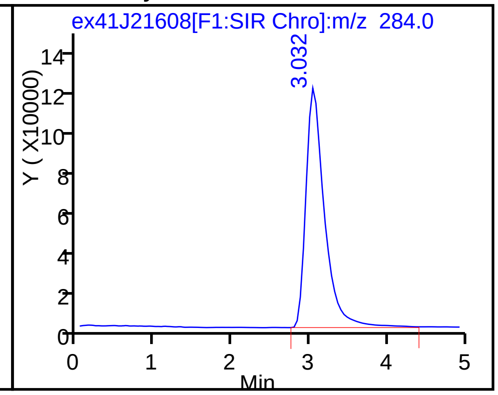
2 HMX (ND)



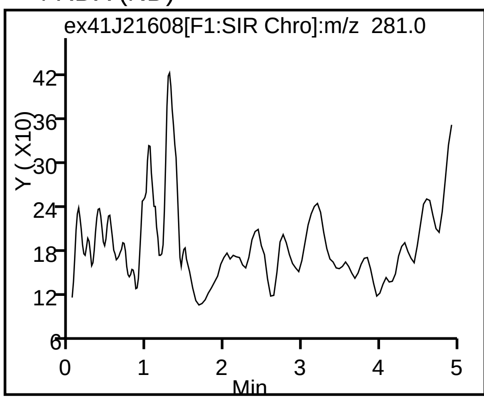
* 1 HMX-13C4



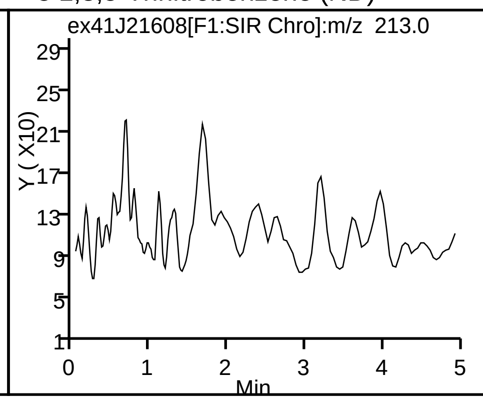
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



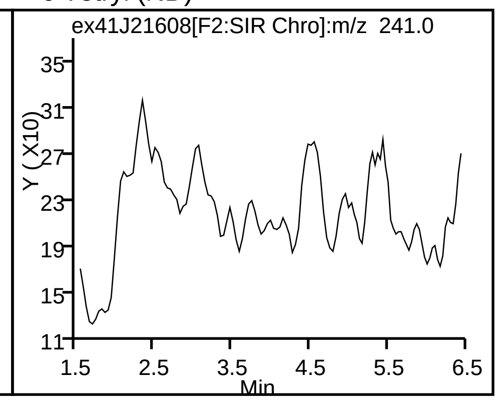
4 RDX (ND)



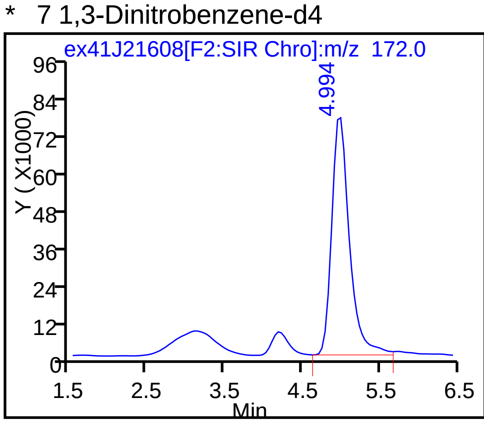
5 1,3,5-Trinitrobenzene (ND)



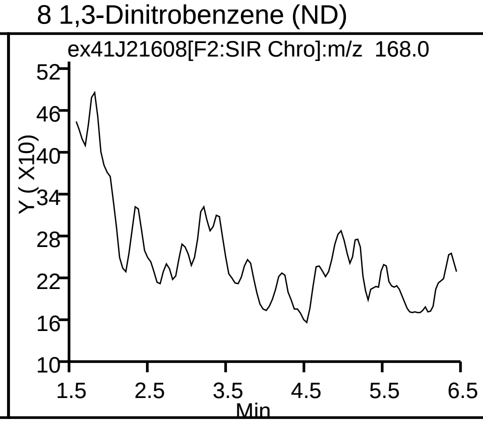
6 Tetryl (ND)



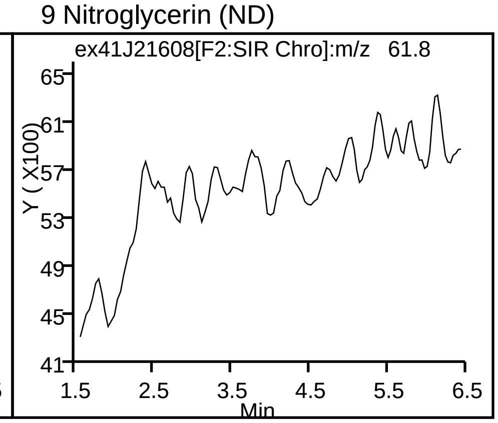
* 7 1,3-Dinitrobenzene-d4



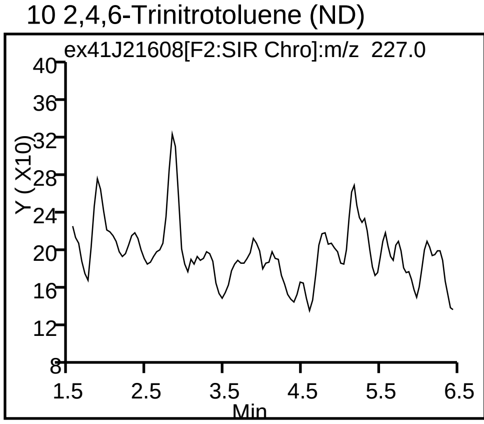
8 1,3-Dinitrobenzene (ND)



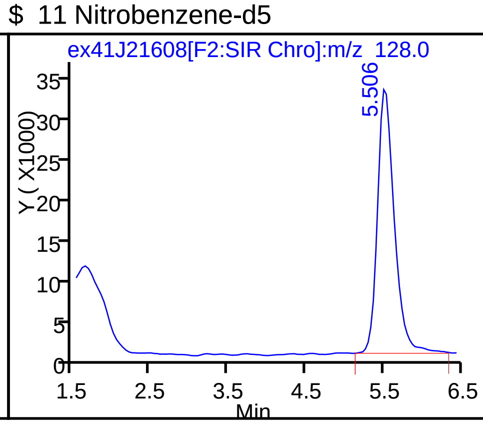
9 Nitroglycerin (ND)



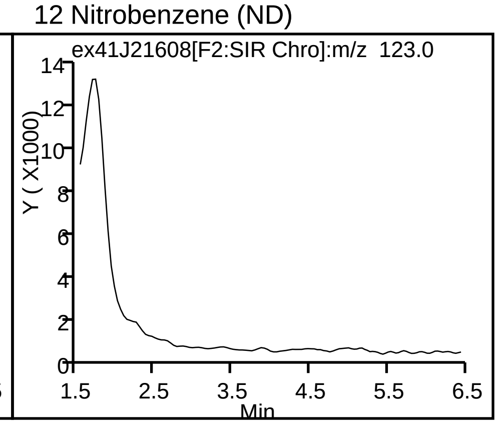
10 2,4,6-Trinitrotoluene (ND)



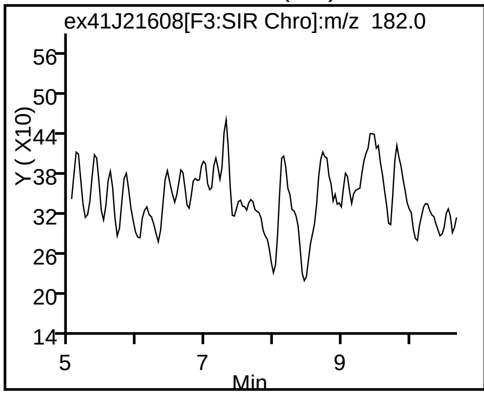
$ 11 Nitrobenzene-d5



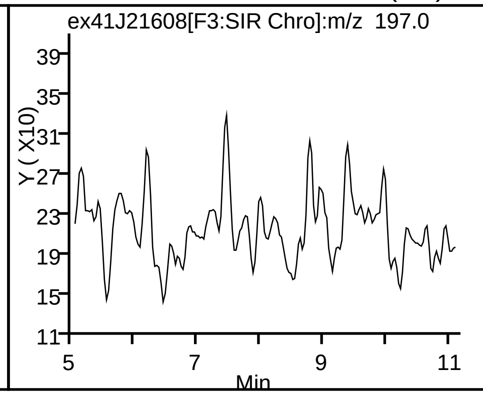
12 Nitrobenzene (ND)



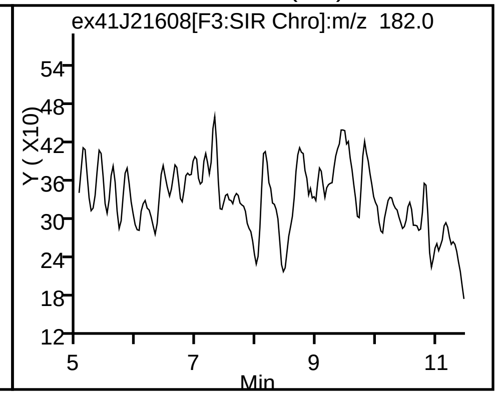
13 3,4-Dinitrotoluene (ND)



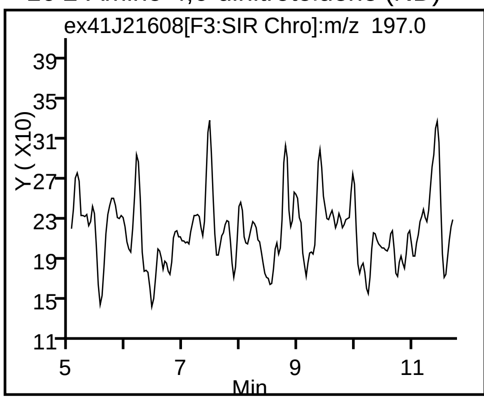
14 4-Amino-2,6-dinitrotoluene (ND)



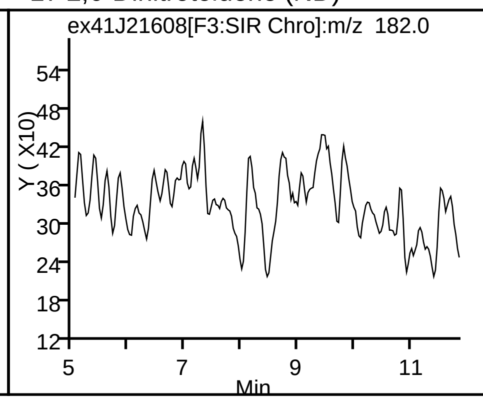
15 2,3-Dinitrotoluene (ND)



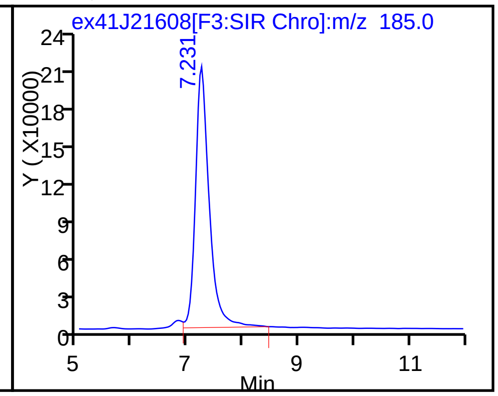
16 2-Amino-4,6-dinitrotoluene (ND)



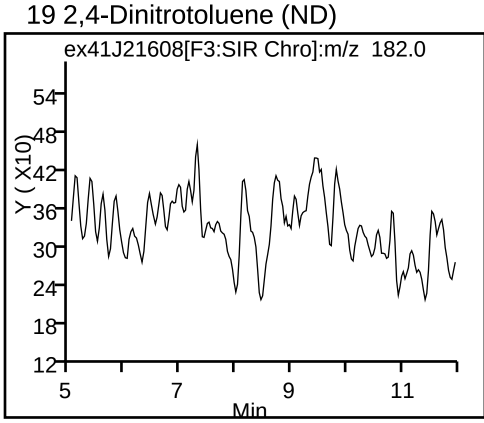
17 2,6-Dinitrotoluene (ND)



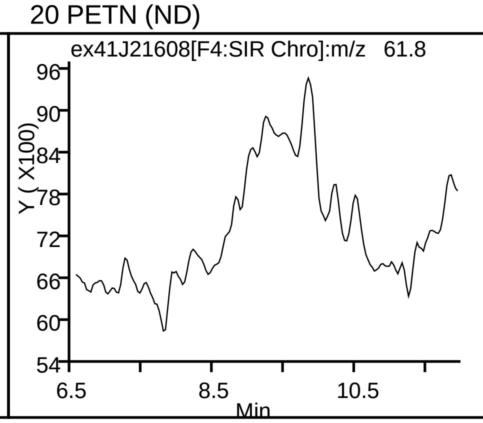
* 18 2,4-dinitrotoluene-d3



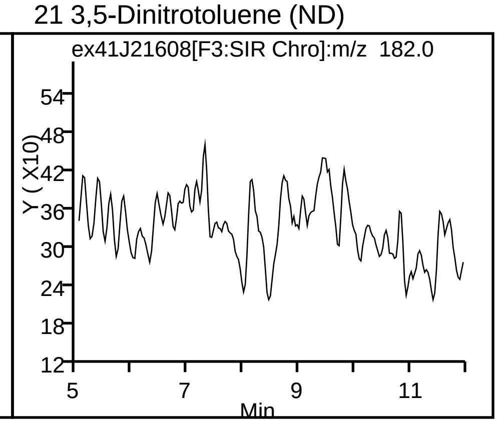
19 2,4-Dinitrotoluene (ND)



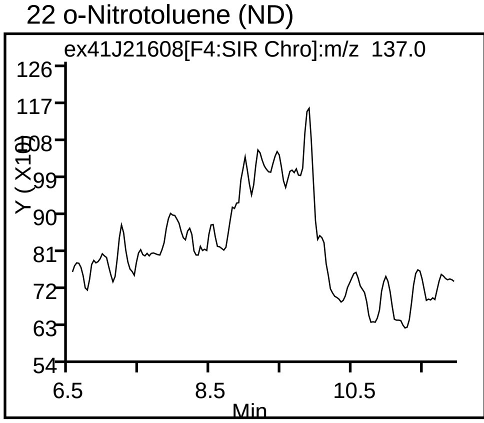
20 PETN (ND)



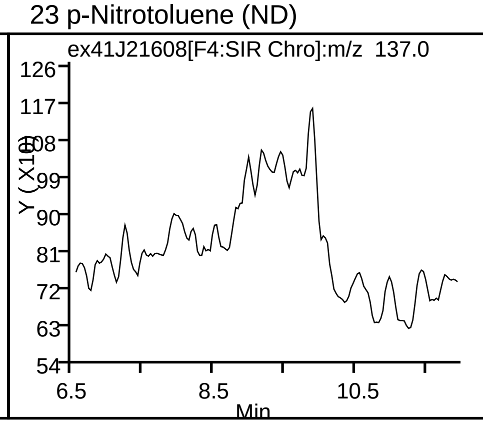
21 3,5-Dinitrotoluene (ND)



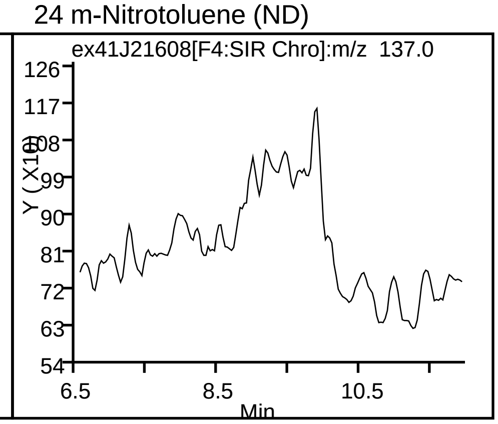
22 o-Nitrotoluene (ND)



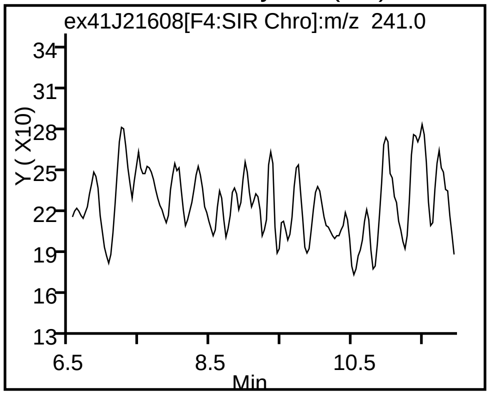
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG17 SB085   Lab Sample ID: 280-21683-69

Matrix: Solid   Lab File ID: ex41J21609.d

Analysis Method: 8321B   Date Collected: 10/15/2011 16:41

Extraction Method: 8330B   Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.58(g)   Date Analyzed: 11/01/2011 22:25

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.0099
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21609.d		
Lims ID:	280-21683-A-69-C	Client ID:	SB085
Inject. Date:	01-Nov-2011 22:25:25	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-69-C 280-0002689-133		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	71
Lims Batch ID:	94193	Lims Sample ID:	133
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:48:00	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:46:06

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		682681	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2219955	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1380220	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	519671	76.2			
12 Nitrobenzene										1
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		4148527	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

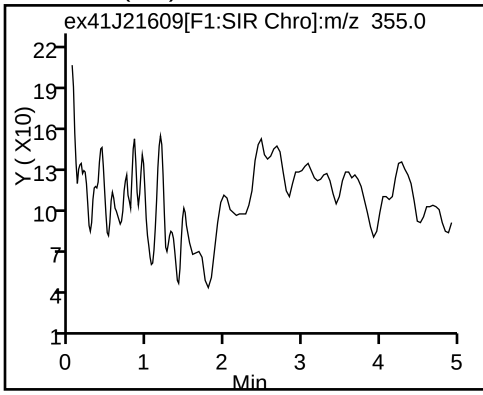
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:48:04 Chrom Revision: 1.2 13-Jul-2011 10:43:06

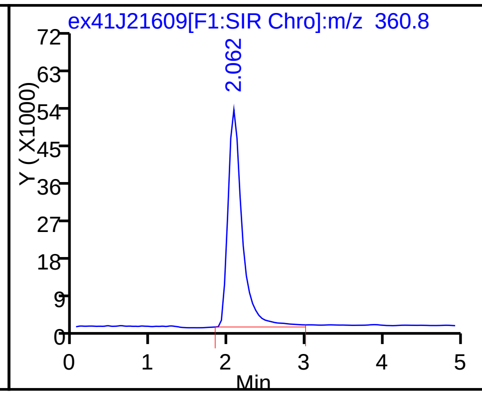
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21609.d

Injection Date:	01-Nov-2011 22:25:25	Limit Group:	LC - 8321A Expl
Client ID:	SB085	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	133
Operator ID:		Injection Vol:	40.00 ul

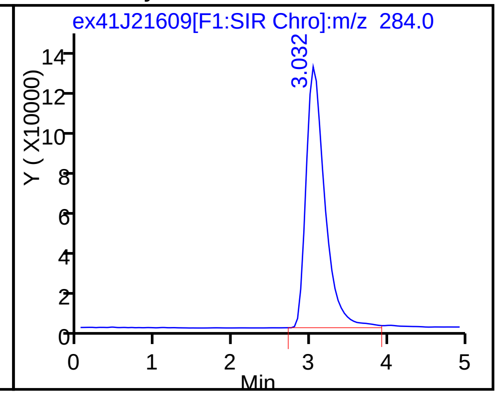
2 HMX (ND)



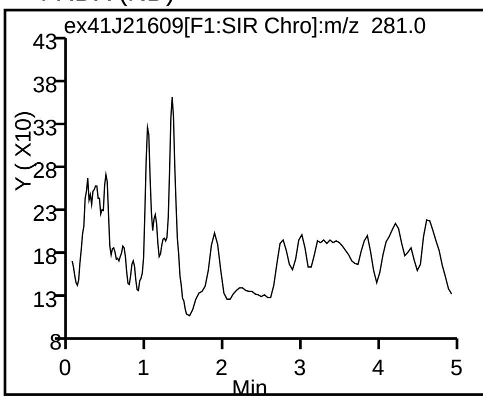
* 1 HMX-13C4



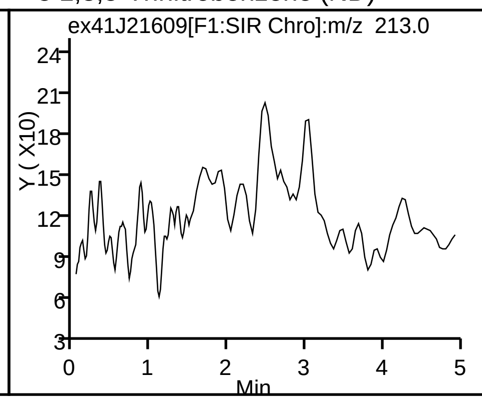
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



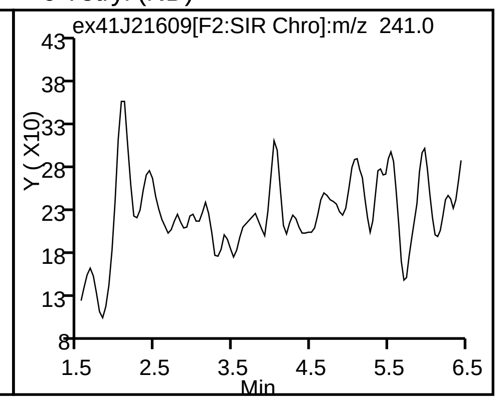
4 RDX (ND)



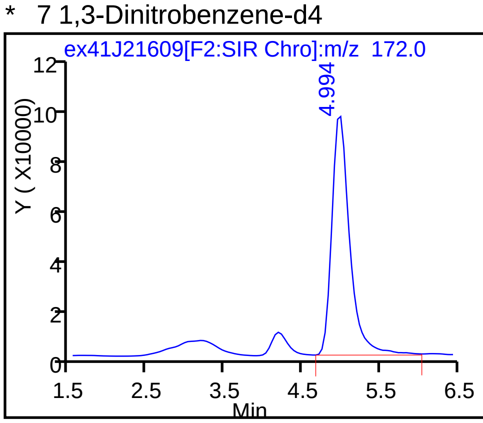
5 1,3,5-Trinitrobenzene (ND)



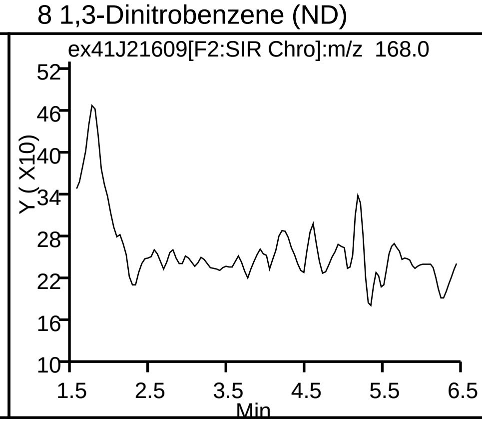
6 Tetryl (ND)



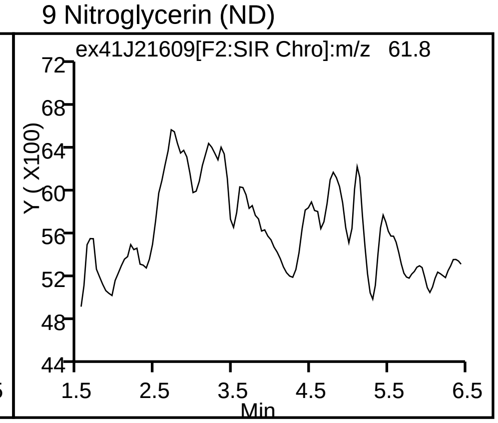
* 7 1,3-Dinitrobenzene-d4



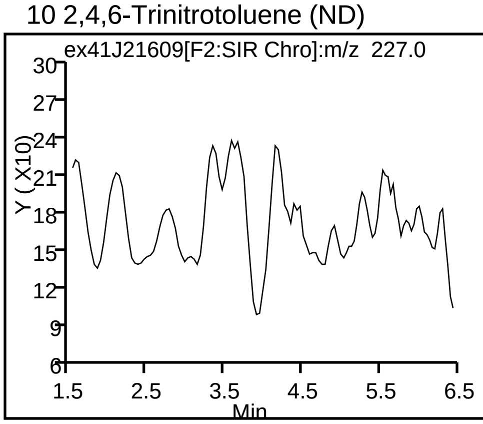
8 1,3-Dinitrobenzene (ND)



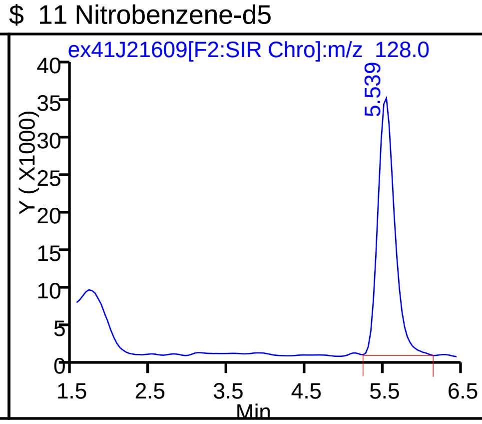
9 Nitroglycerin (ND)



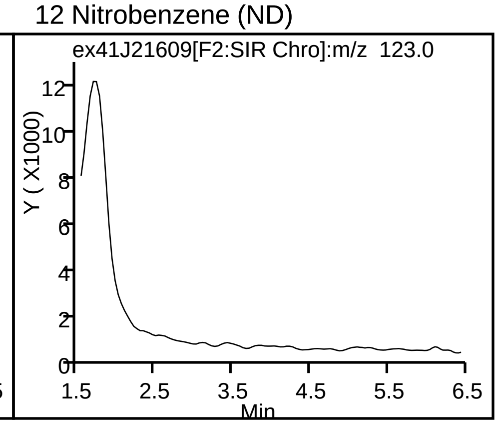
10 2,4,6-Trinitrotoluene (ND)



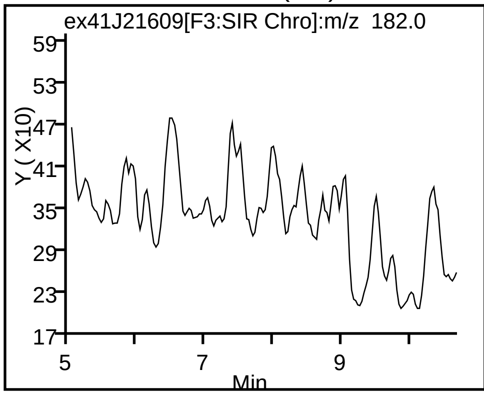
$ 11 Nitrobenzene-d5



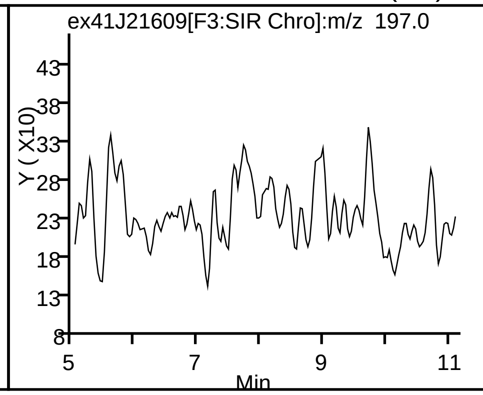
12 Nitrobenzene (ND)



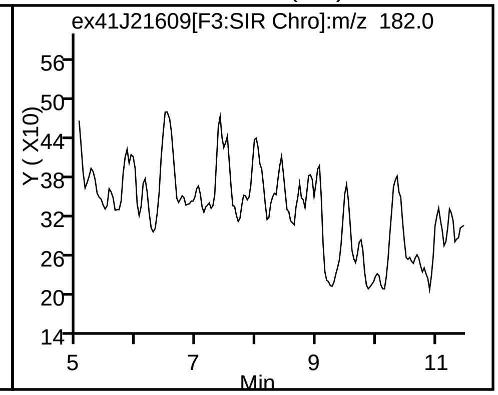
13 3,4-Dinitrotoluene (ND)



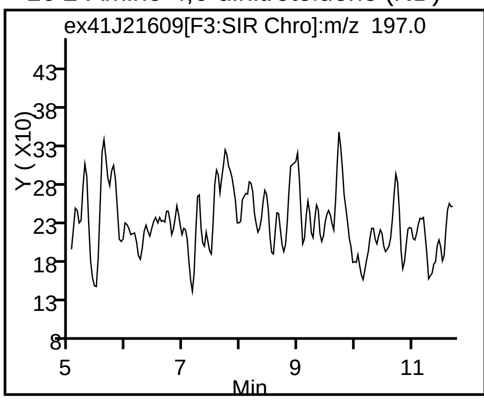
14 4-Amino-2,6-dinitrotoluene (ND)



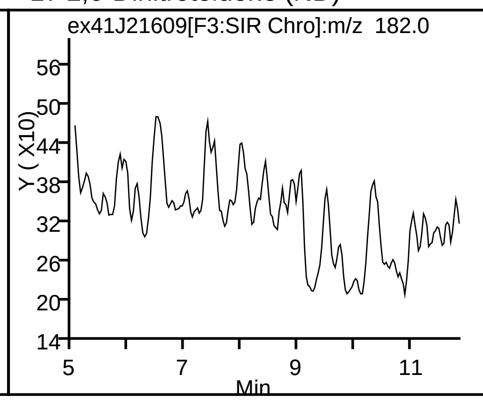
15 2,3-Dinitrotoluene (ND)



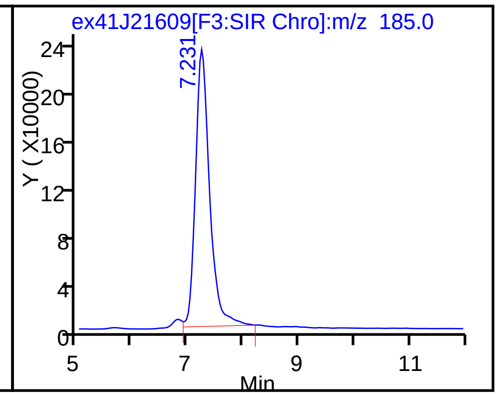
16 2-Amino-4,6-dinitrotoluene (ND)



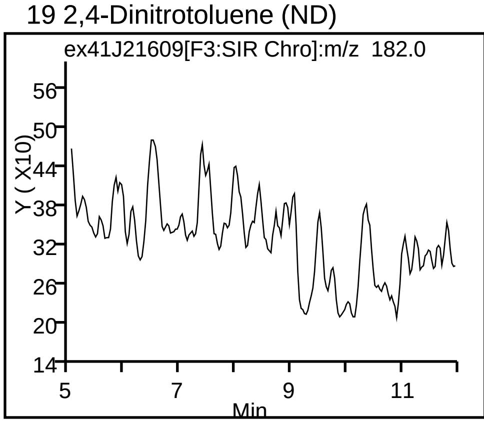
17 2,6-Dinitrotoluene (ND)



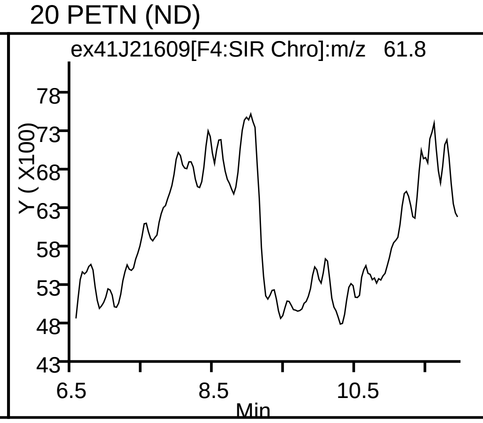
* 18 2,4-dinitrotoluene-d3



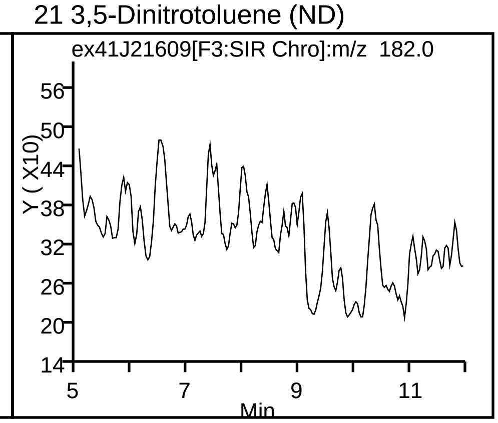
19 2,4-Dinitrotoluene (ND)



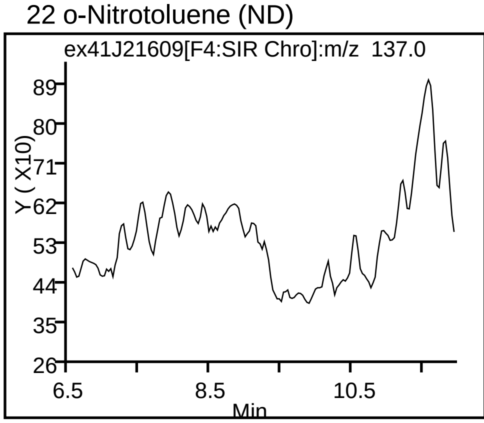
20 PETN (ND)



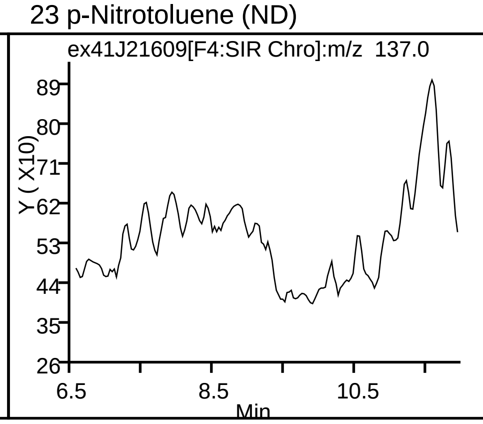
21 3,5-Dinitrotoluene (ND)



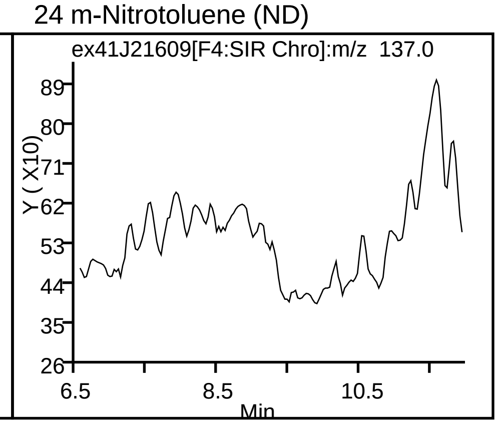
22 o-Nitrotoluene (ND)



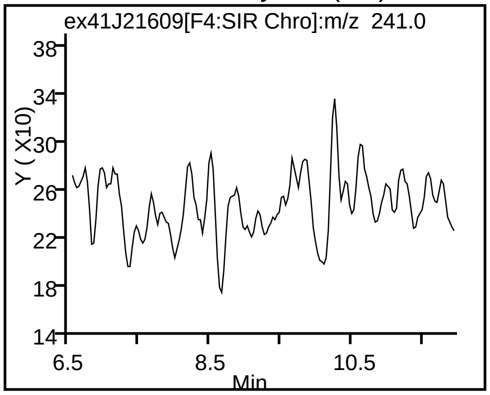
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG17 SB086   Lab Sample ID: 280-21683-70

Matrix: Solid   Lab File ID: ex41J21610.d

Analysis Method: 8321B   Date Collected: 10/15/2011 16:43

Extraction Method: 8330B   Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.88(g)   Date Analyzed: 11/01/2011 22:38

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.092	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.011	U	0.092	0.011	0.0065
118-96-7	2,4,6-Trinitrotoluene	0.011	U	0.092	0.011	0.0046
121-14-2	2,4-Dinitrotoluene	0.011	U	0.092	0.011	0.0075
606-20-2	2,6-Dinitrotoluene	0.023	U	0.092	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.092	0.023	0.011
88-72-2	2-Nitrotoluene	0.011	U	0.092	0.011	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.092	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.011	U	0.092	0.011	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.092	0.023	0.010
2691-41-0	HMX	0.011	U	0.092	0.011	0.0054
98-95-3	Nitrobenzene	0.011	U	0.092	0.011	0.0099
55-63-0	Nitroglycerin	0.011	U	0.092	0.011	0.0097
78-11-5	PETN	0.011	U	0.092	0.011	0.0047
121-82-4	RDX	0.011	U	0.092	0.011	0.0040
479-45-8	Tetryl	0.011	U	0.092	0.011	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21610.d		
Lims ID:	280-21683-A-70-C	Client ID:	SB086
Inject. Date:	01-Nov-2011 22:38:58	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-70-C 280-0002689-134		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	72
Lims Batch ID:	94193	Lims Sample ID:	134
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:48:00	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		610276	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2261468	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1318697	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	536983	82.4			
12 Nitrobenzene										1
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

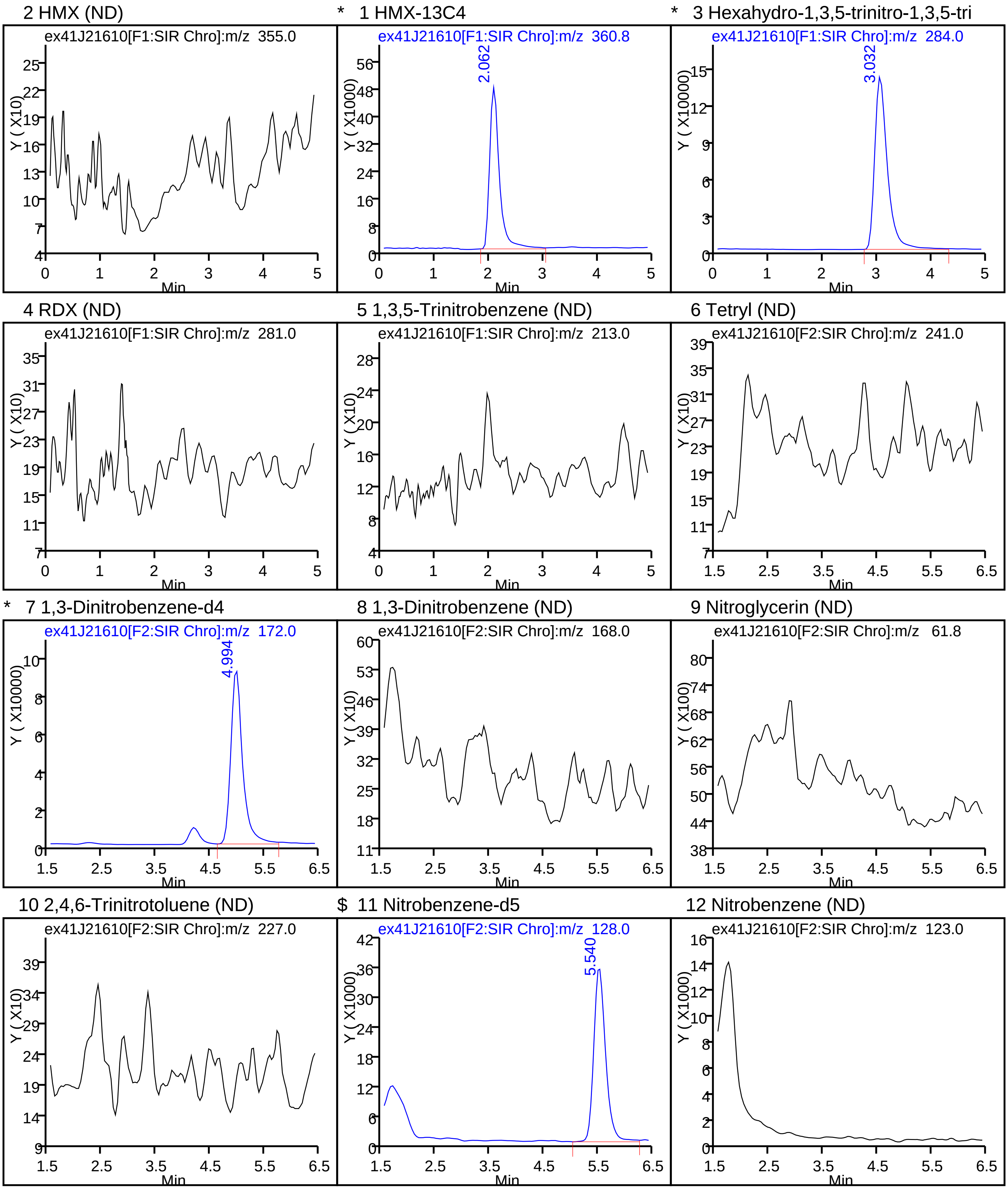
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		3835756	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										
4	61.8		7.768							
21 3,5-Dinitrotoluene										
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0		8.284							
23 p-Nitrotoluene										
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

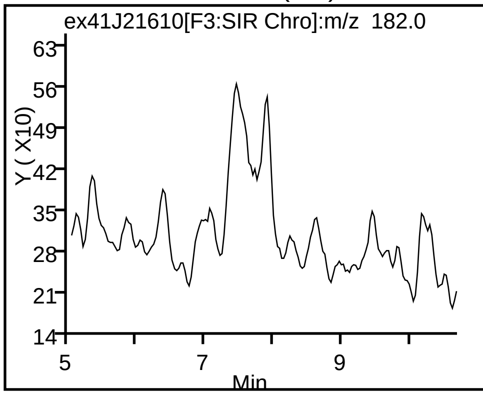
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:48:05 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21610.d

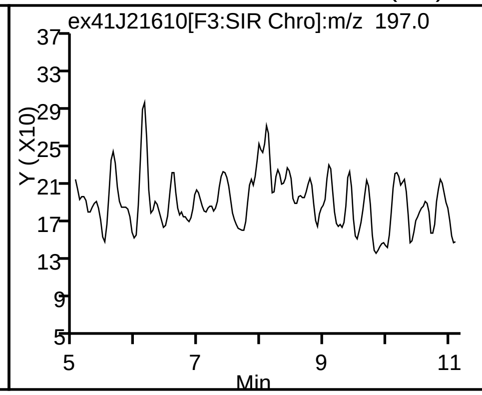
Injection Date:	01-Nov-2011 22:38:58	Limit Group:	LC - 8321A Expl
Client ID:	SB086	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	134
Operator ID:		Injection Vol:	40.00 ul



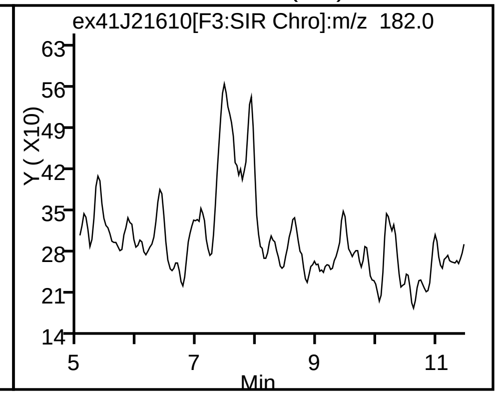
13 3,4-Dinitrotoluene (ND)



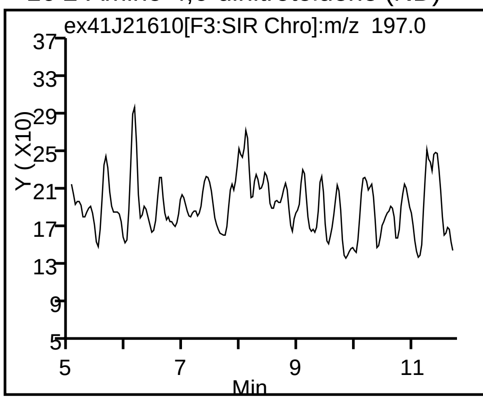
14 4-Amino-2,6-dinitrotoluene (ND)



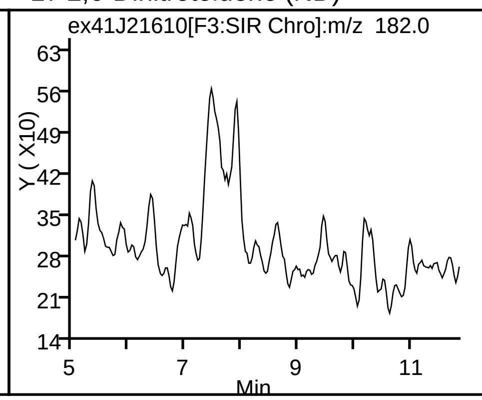
15 2,3-Dinitrotoluene (ND)



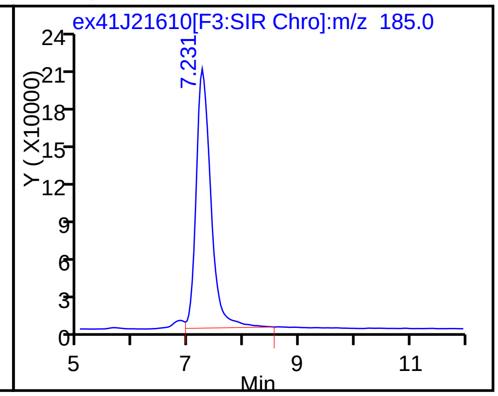
16 2-Amino-4,6-dinitrotoluene (ND)



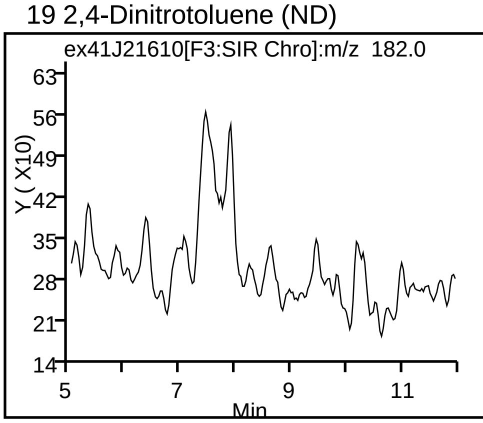
17 2,6-Dinitrotoluene (ND)



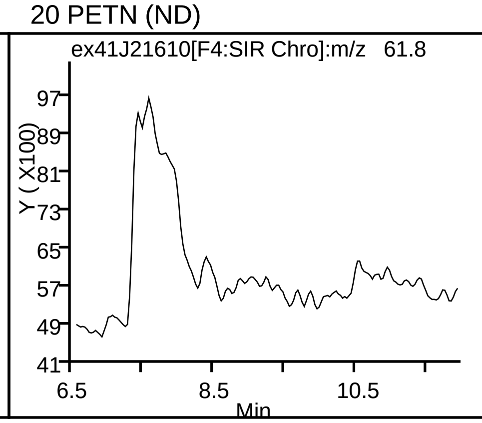
* 18 2,4-dinitrotoluene-d3



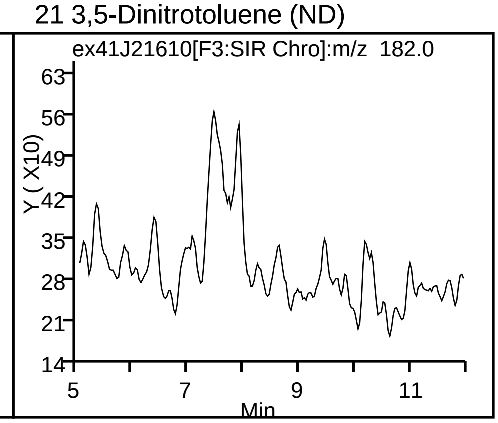
19 2,4-Dinitrotoluene (ND)



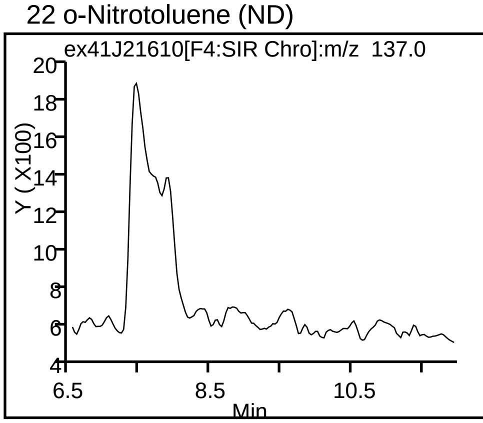
20 PETN (ND)



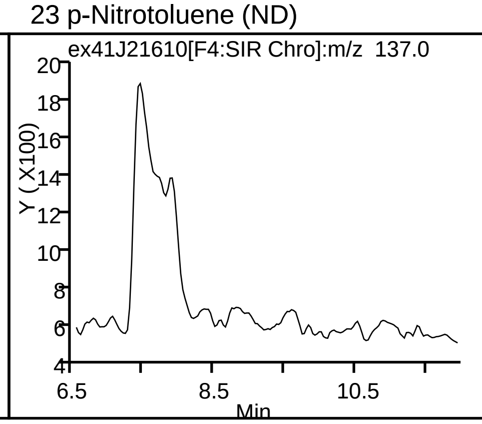
21 3,5-Dinitrotoluene (ND)



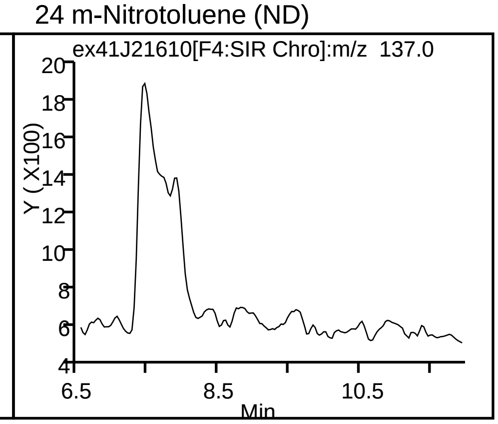
22 o-Nitrotoluene (ND)



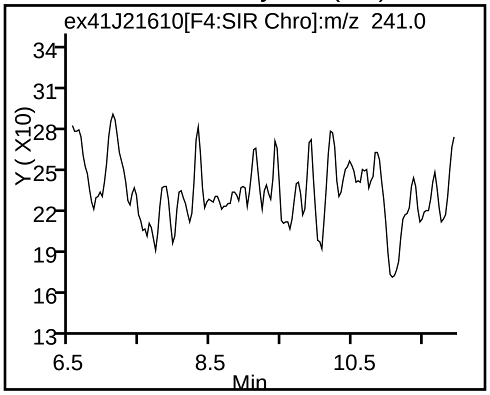
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG17 SB087   Lab Sample ID: 280-21683-71

Matrix: Solid   Lab File ID: ex41J21611.d

Analysis Method: 8321B   Date Collected: 10/15/2011 16:43

Extraction Method: 8330B   Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.22(g)   Date Analyzed: 11/01/2011 22:52

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.098	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.098	0.024	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.098	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.098	0.024	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.098	0.024	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0050
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21611.d		
Lims ID:	280-21683-A-71-C	Client ID:	SB087
Inject. Date:	01-Nov-2011 22:52:32	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-71-C 280-0002689-135		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	73
Lims Batch ID:	94193	Lims Sample ID:	135
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:48:00	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:46:24

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		642945	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2021797	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1306511	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	555304	86.1			
12 Nitrobenzene										1
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		3867619	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0		8.284							
23 p-Nitrotoluene										
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

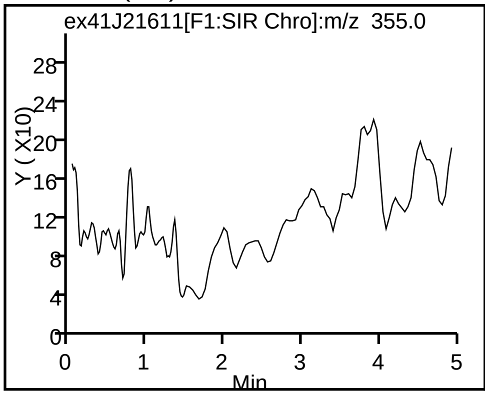
QC Flag Legend

Processing Flags
1 - Missing Peaks

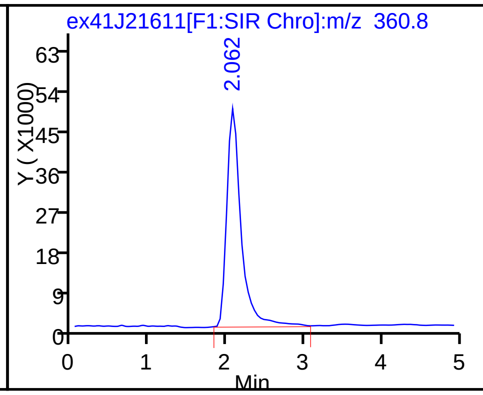
Report Date: 02-Nov-2011 06:48:06 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21611.d

Injection Date:	01-Nov-2011 22:52:32	Limit Group:	LC - 8321A Expl
Client ID:	SB087	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	135
Operator ID:		Injection Vol:	40.00 ul

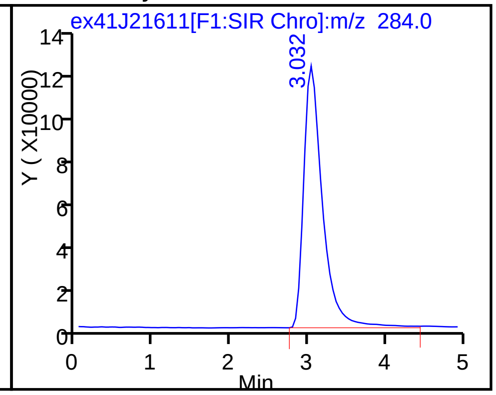
2 HMX (ND)



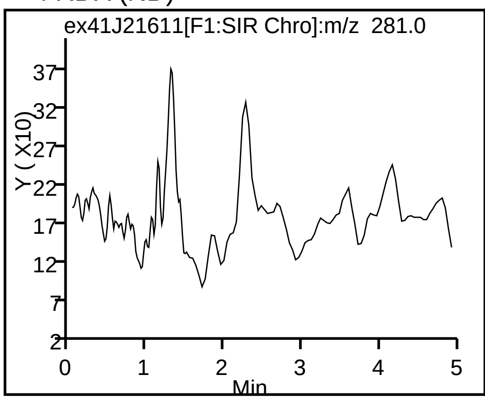
* 1 HMX-13C4



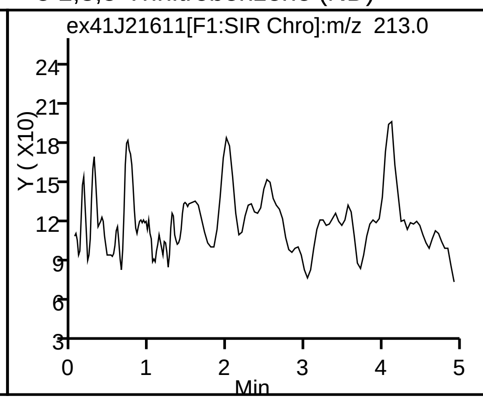
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



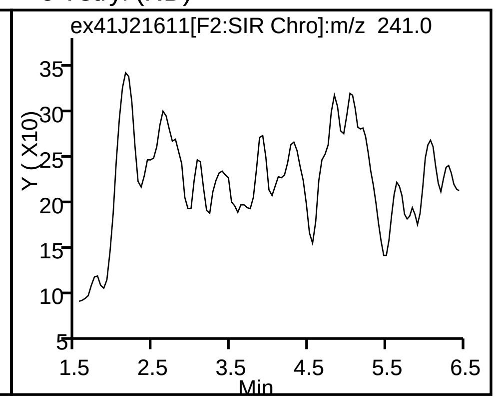
4 RDX (ND)



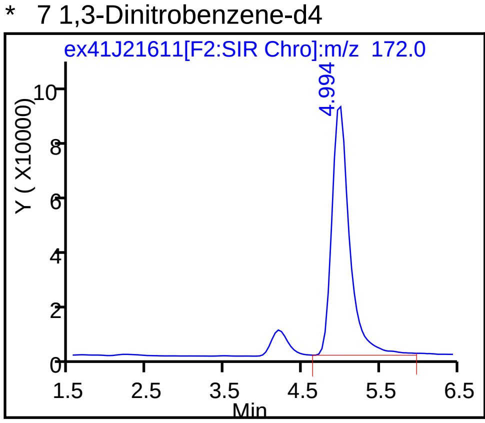
5 1,3,5-Trinitrobenzene (ND)



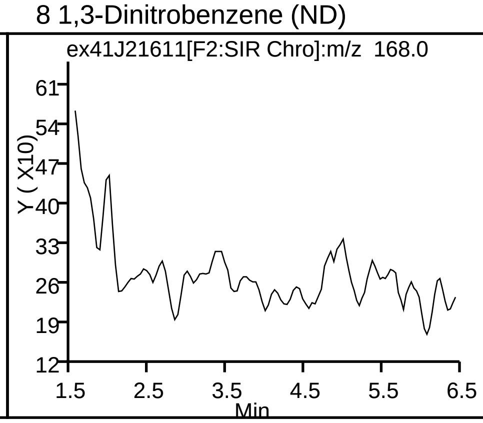
6 Tetryl (ND)



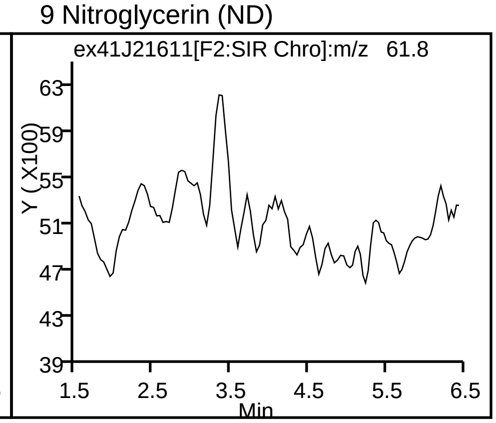
* 7 1,3-Dinitrobenzene-d4



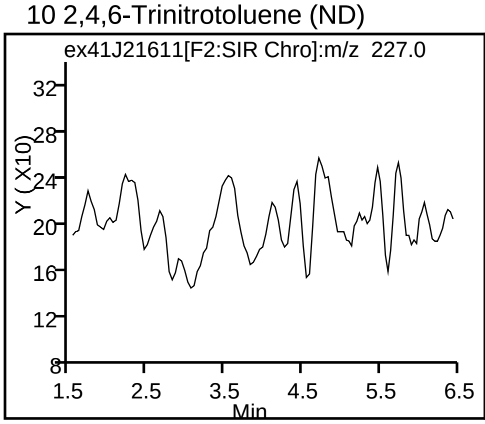
8 1,3-Dinitrobenzene (ND)



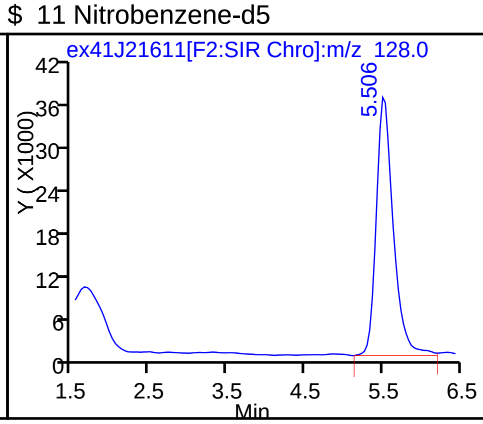
9 Nitroglycerin (ND)



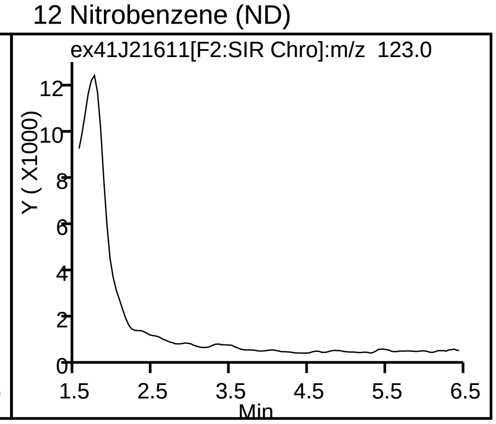
10 2,4,6-Trinitrotoluene (ND)



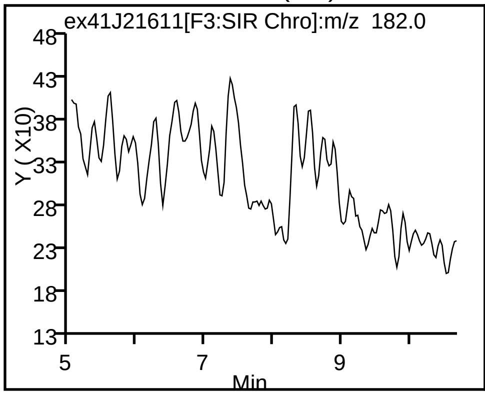
$ 11 Nitrobenzene-d5



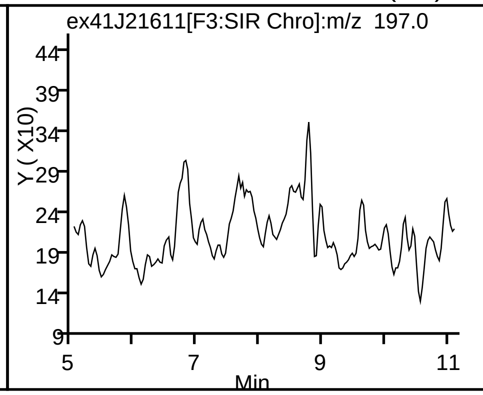
12 Nitrobenzene (ND)



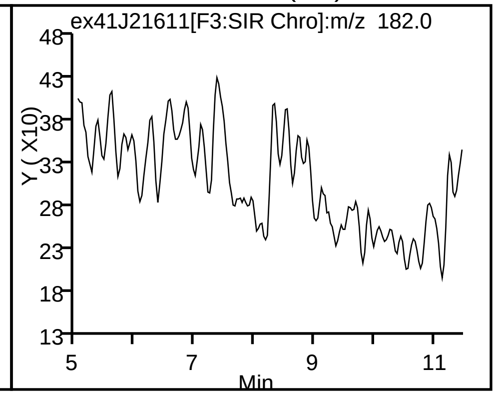
13 3,4-Dinitrotoluene (ND)



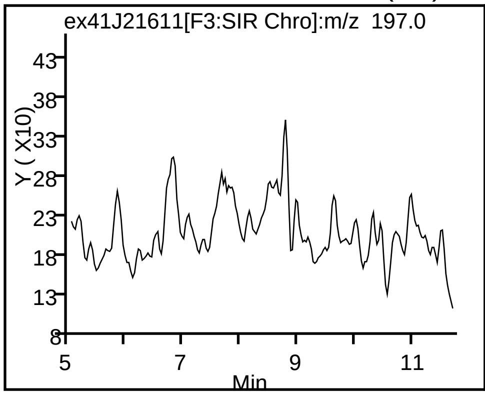
14 4-Amino-2,6-dinitrotoluene (ND)



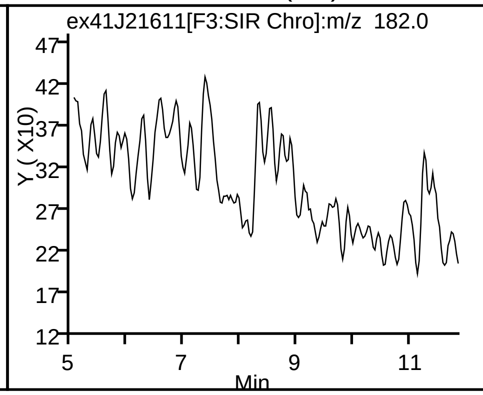
15 2,3-Dinitrotoluene (ND)



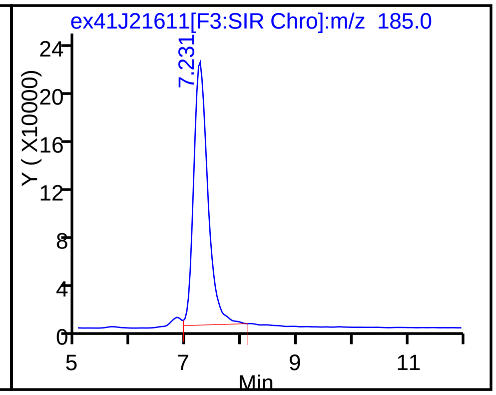
16 2-Amino-4,6-dinitrotoluene (ND)



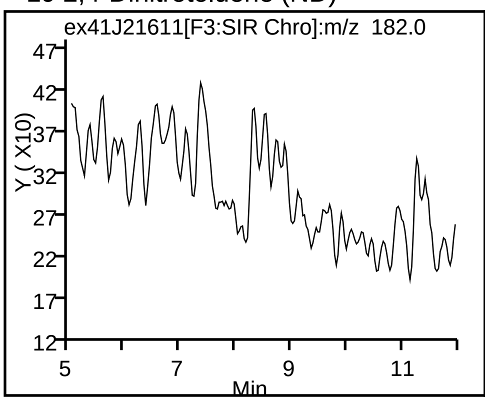
17 2,6-Dinitrotoluene (ND)



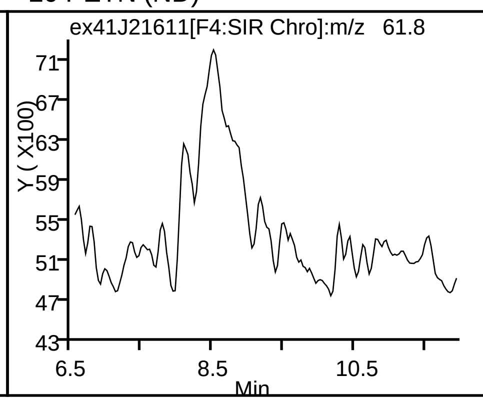
* 18 2,4-dinitrotoluene-d3



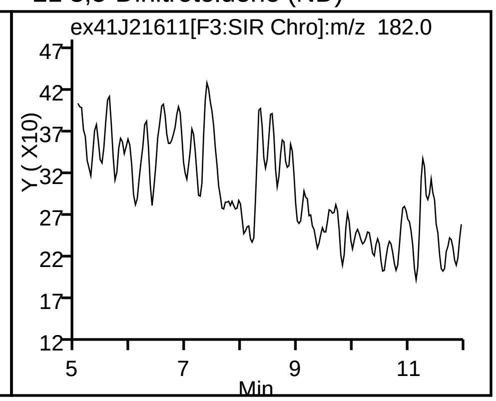
19 2,4-Dinitrotoluene (ND)



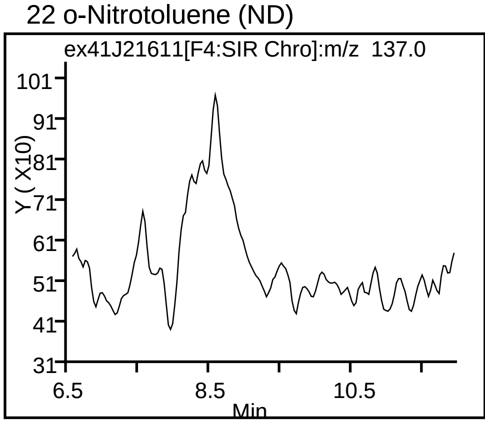
20 PETN (ND)



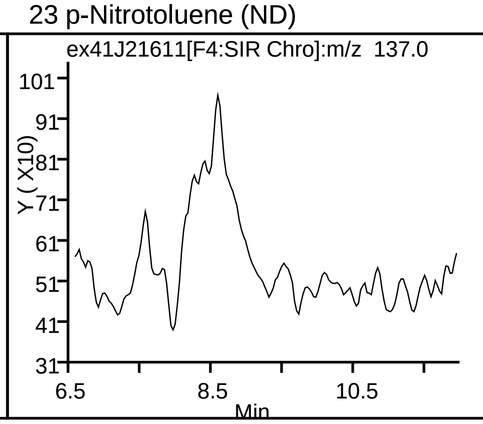
21 3,5-Dinitrotoluene (ND)



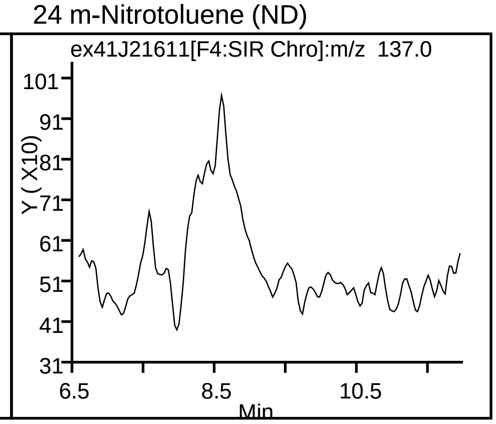
22 o-Nitrotoluene (ND)



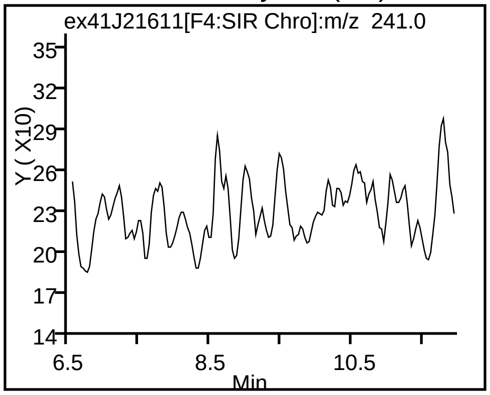
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG18 SB088 | Lab Sample ID: 280-21683-72

Matrix: Solid | Lab File ID: ex41J21612.d

Analysis Method: 8321B | Date Collected: 10/15/2011 16:56

Extraction Method: 8330B | Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.06(g) | Date Analyzed: 11/01/2011 23:06

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21612.d		
Lims ID:	280-21683-A-72-C	Client ID:	SB088
Inject. Date:	01-Nov-2011 23:06:23	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-72-C 280-0002689-136		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	74
Lims Batch ID:	94193	Lims Sample ID:	136
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:48:00	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		596910	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2002657	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1323185	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										1
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	521156	79.7			
12 Nitrobenzene										1
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

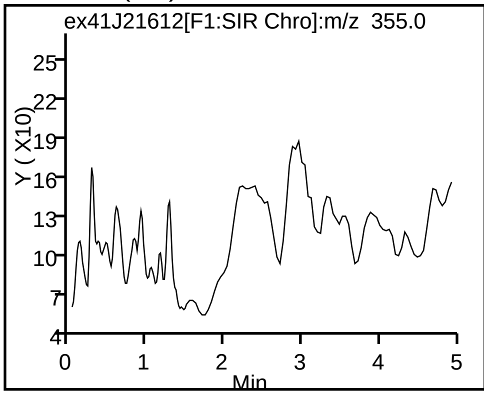
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.715							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.201	0.030		3919498	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.292							
20	PETN									1
4	61.8		7.768							
21	3,5-Dinitrotoluene									1
3	182.0		7.899							
22	o-Nitrotoluene									1
4	137.0		8.284							
23	p-Nitrotoluene									
4	137.0		8.830							
24	m-Nitrotoluene									
4	137.0		9.499							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.379							

QC Flag Legend

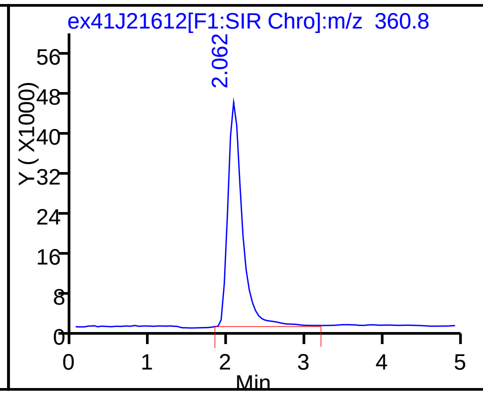
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:48:07		Chrom Revision: 1.2 13-Jul-2011 10:43:06	
Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21612.d		
Injection Date:	01-Nov-2011 23:06:23	Limit Group:	LC - 8321A Expl
Client ID:	SB088	Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	136
Operator ID:		Injection Vol:	40.00 ul

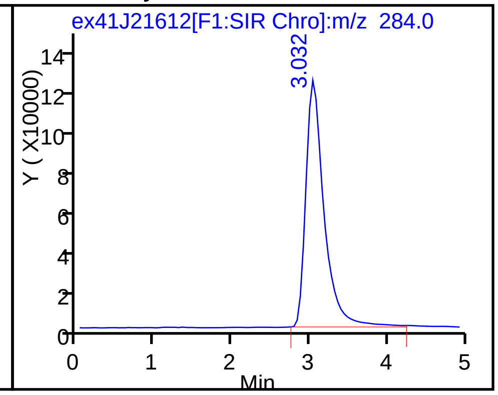
2 HMX (ND)



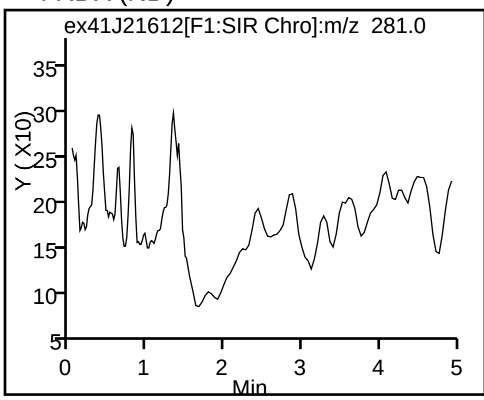
* 1 HMX-13C4



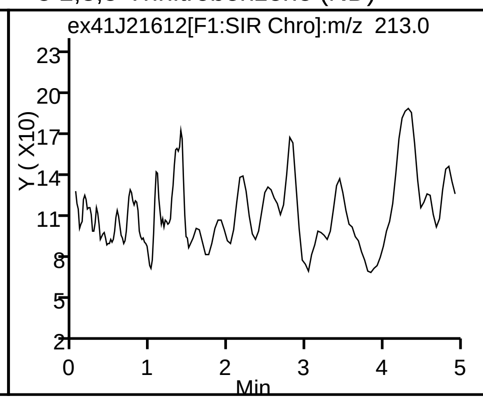
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



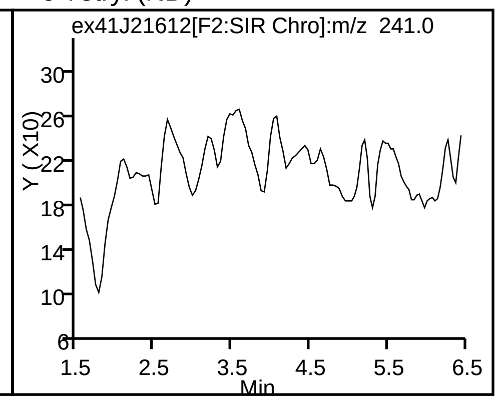
4 RDX (ND)



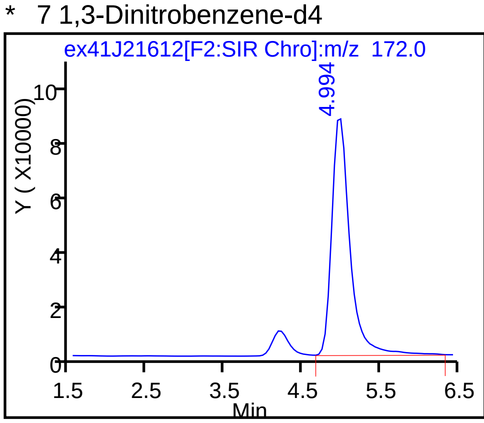
5 1,3,5-Trinitrobenzene (ND)



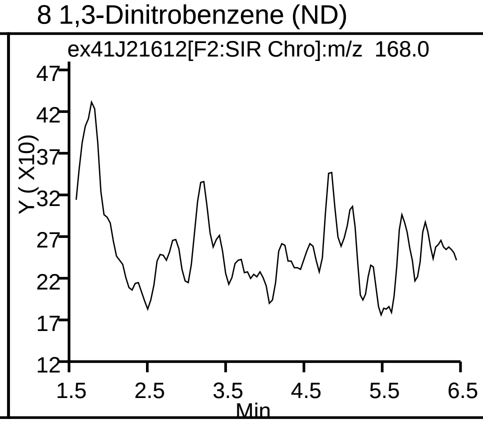
6 Tetryl (ND)



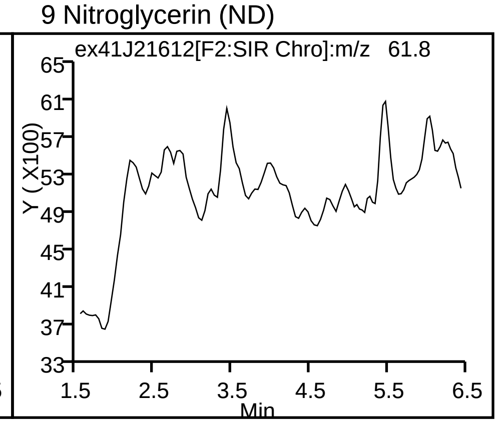
* 7 1,3-Dinitrobenzene-d4



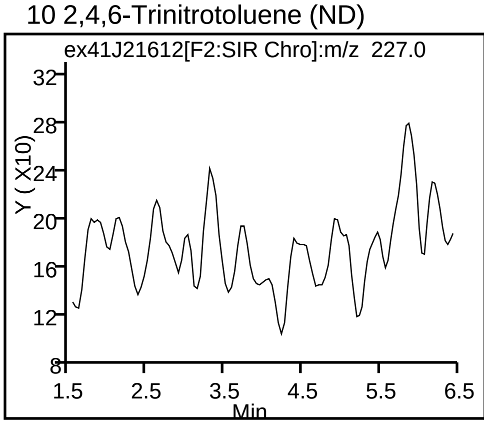
8 1,3-Dinitrobenzene (ND)



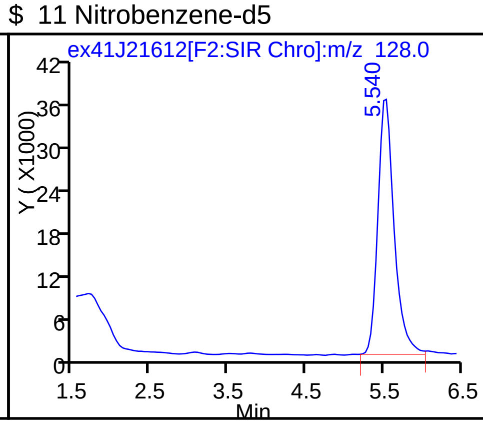
9 Nitroglycerin (ND)



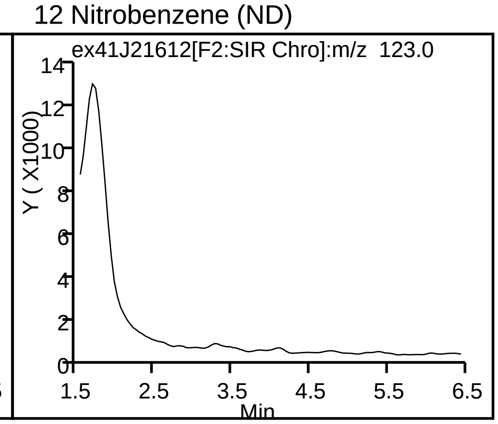
10 2,4,6-Trinitrotoluene (ND)



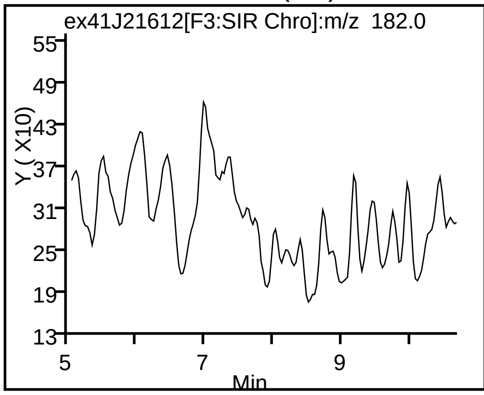
$ 11 Nitrobenzene-d5



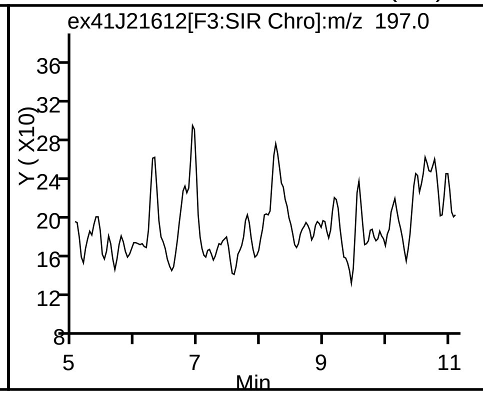
12 Nitrobenzene (ND)



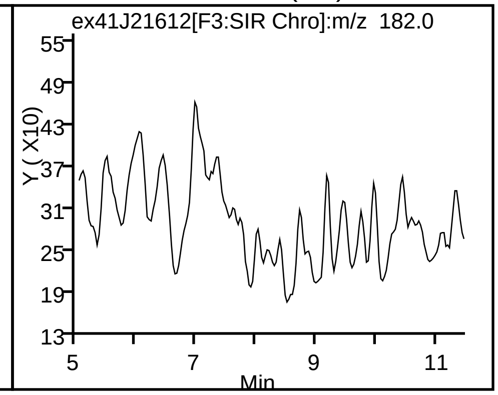
13 3,4-Dinitrotoluene (ND)



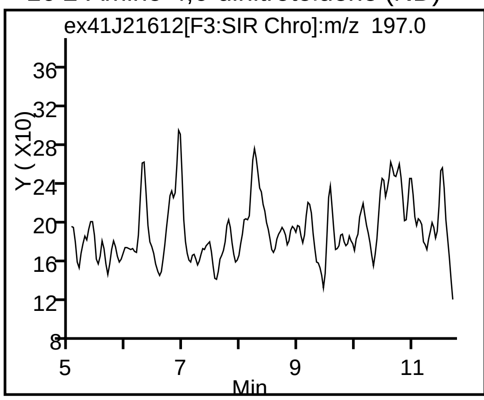
14 4-Amino-2,6-dinitrotoluene (ND)



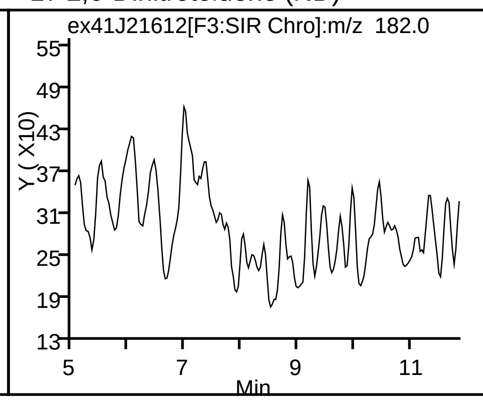
15 2,3-Dinitrotoluene (ND)



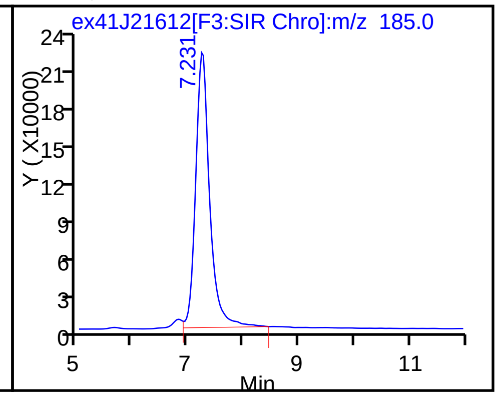
16 2-Amino-4,6-dinitrotoluene (ND)



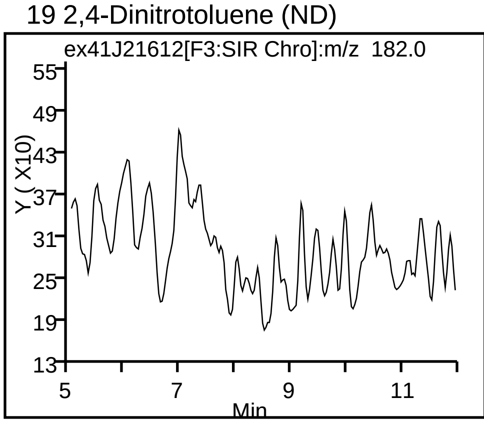
17 2,6-Dinitrotoluene (ND)



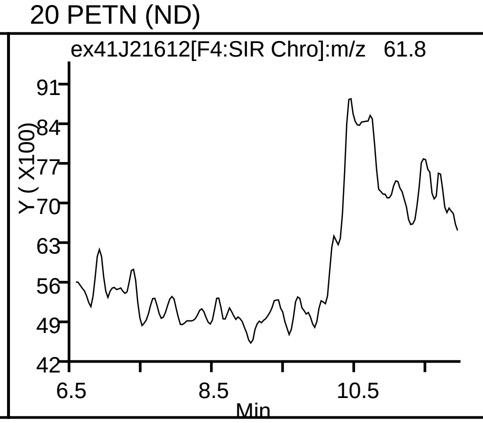
* 18 2,4-dinitrotoluene-d3



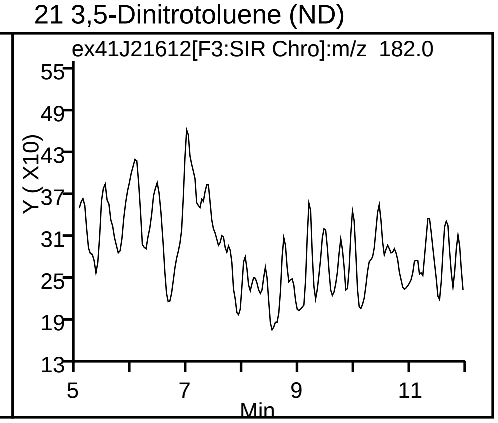
19 2,4-Dinitrotoluene (ND)



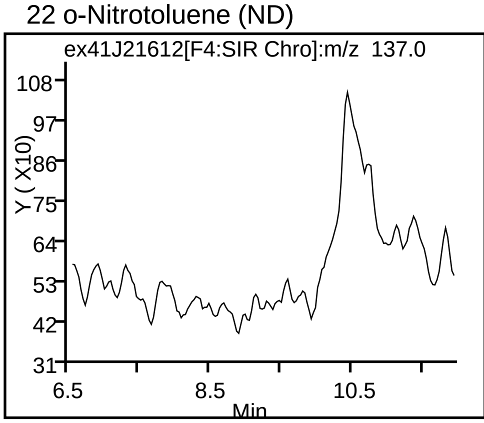
20 PETN (ND)



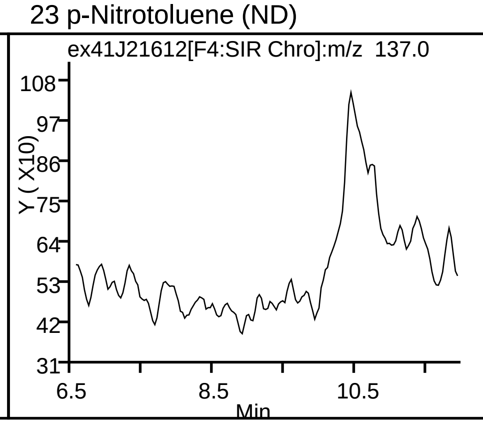
21 3,5-Dinitrotoluene (ND)



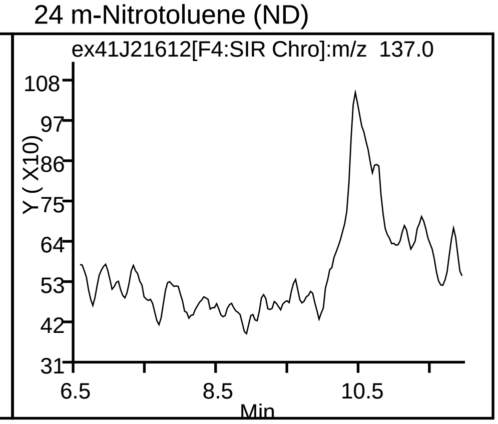
22 o-Nitrotoluene (ND)



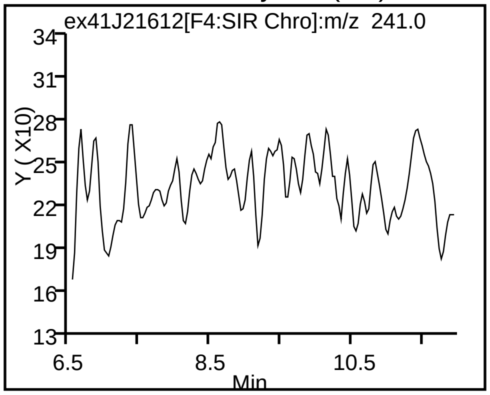
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG18 SB089 | Lab Sample ID: 280-21683-73

Matrix: Solid | Lab File ID: ex41J21616.d

Analysis Method: 8321B | Date Collected: 10/15/2011 16:58

Extraction Method: 8330B | Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.43(g) | Date Analyzed: 11/02/2011 00:01

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21616.d		
Lims ID:	280-21683-A-73-C	Client ID:	SB089
Inject. Date:	02-Nov-2011 00:01:14	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-73-C 280-0002689-140		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	77
Lims Batch ID:	94194	Lims Sample ID:	140
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:18	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		622772	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2095460	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1196141	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.540	-0.034	1.102	496039	84.0			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3512189	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

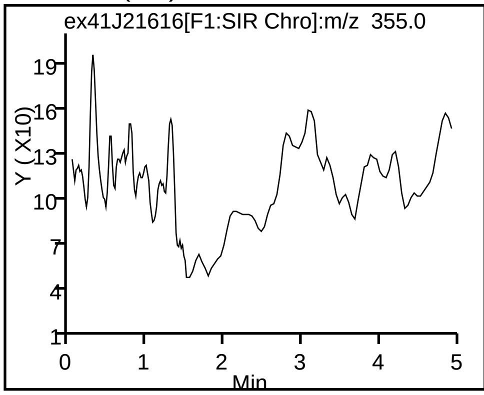
QC Flag Legend

Processing Flags
1 - Missing Peaks

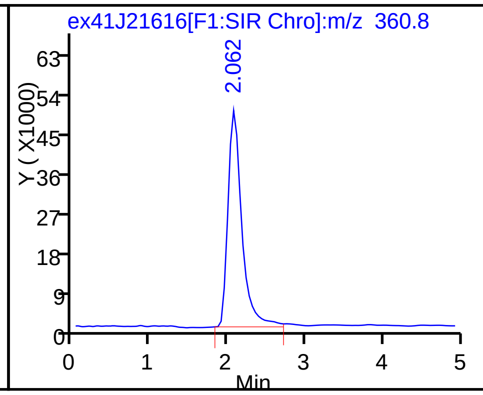
Report Date: 02-Nov-2011 06:54:20 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21616.d

Injection Date:	02-Nov-2011 00:01:14	Limit Group:	LC - 8321A Expl
Client ID:	SB089	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	140
Operator ID:		Injection Vol:	40.00 ul

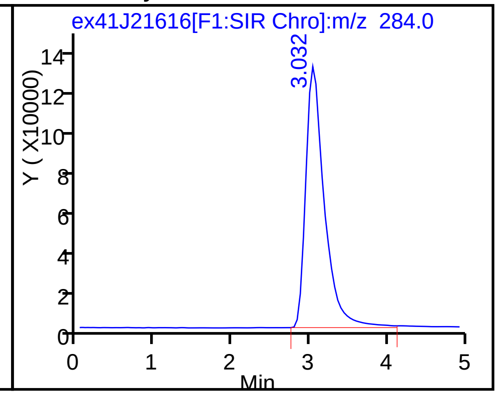
2 HMX (ND)



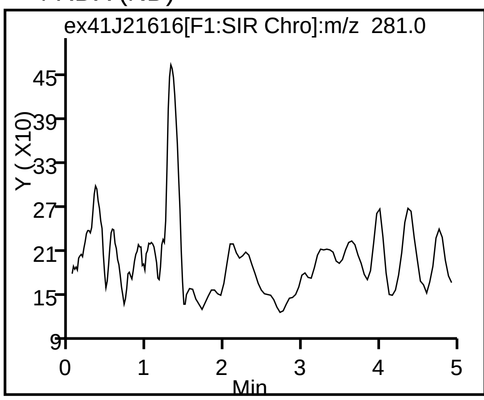
* 1 HMX-13C4



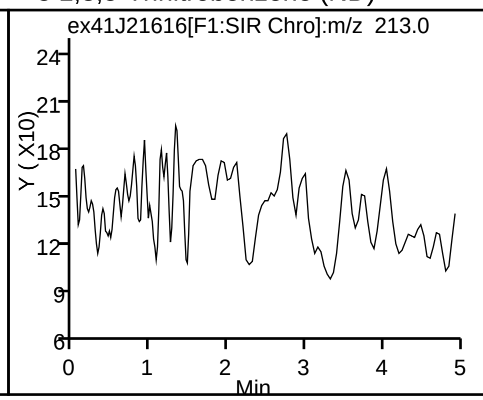
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



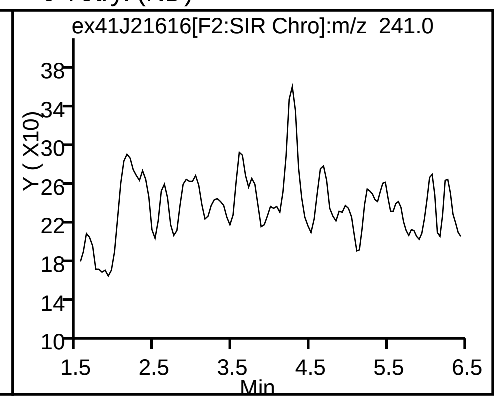
4 RDX (ND)



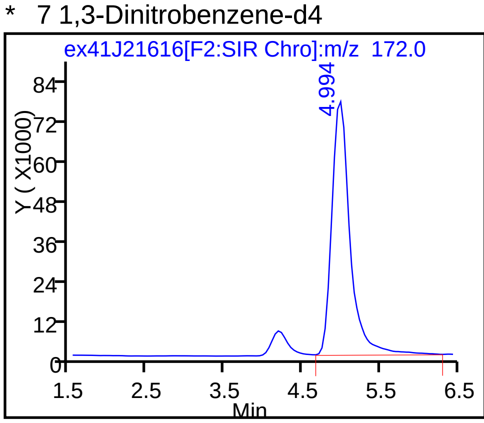
5 1,3,5-Trinitrobenzene (ND)



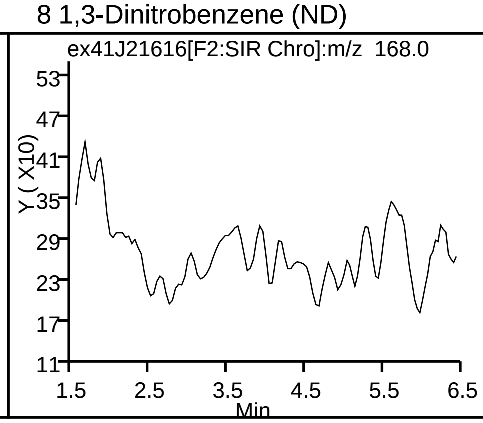
6 Tetryl (ND)



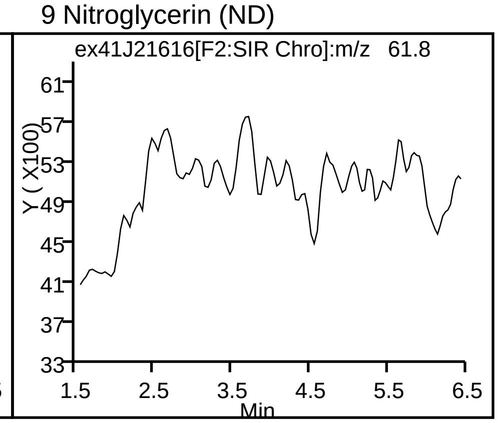
* 7 1,3-Dinitrobenzene-d4



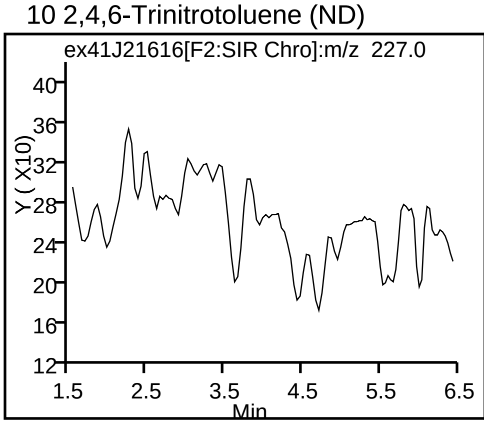
8 1,3-Dinitrobenzene (ND)



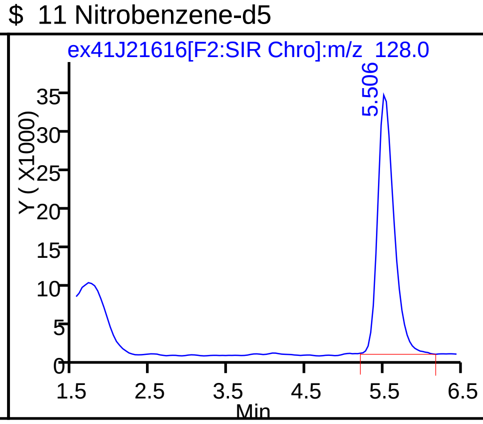
9 Nitroglycerin (ND)



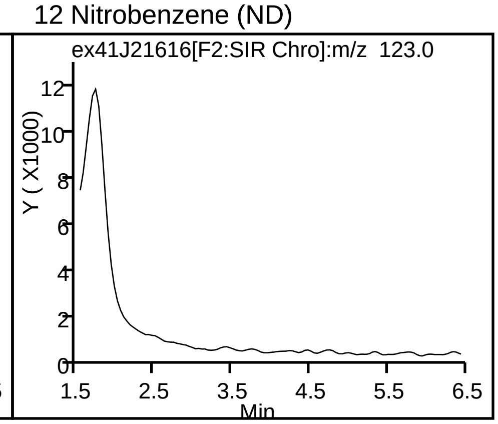
10 2,4,6-Trinitrotoluene (ND)



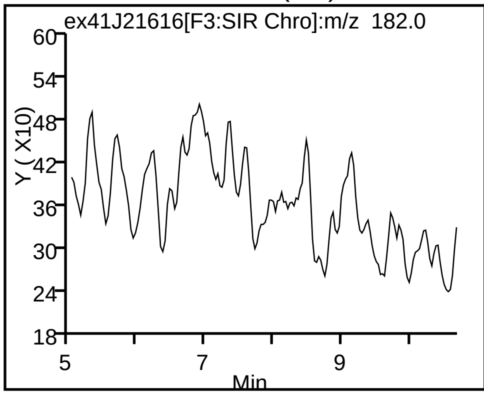
$ 11 Nitrobenzene-d5



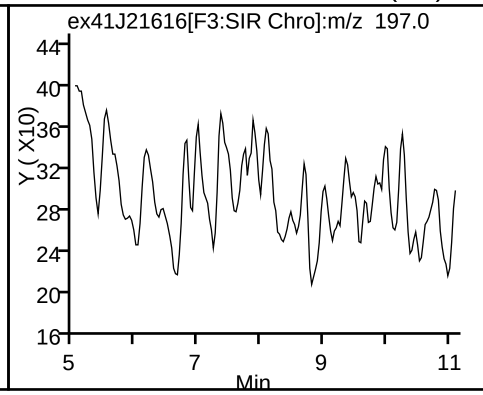
12 Nitrobenzene (ND)



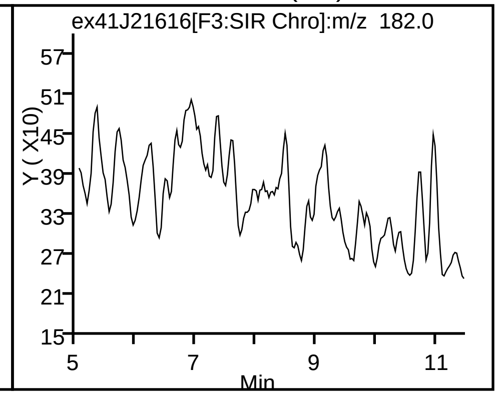
13 3,4-Dinitrotoluene (ND)



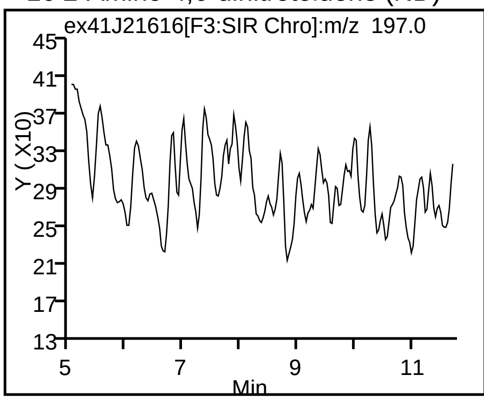
14 4-Amino-2,6-dinitrotoluene (ND)



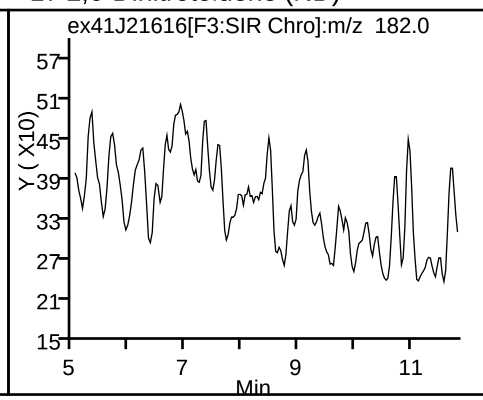
15 2,3-Dinitrotoluene (ND)



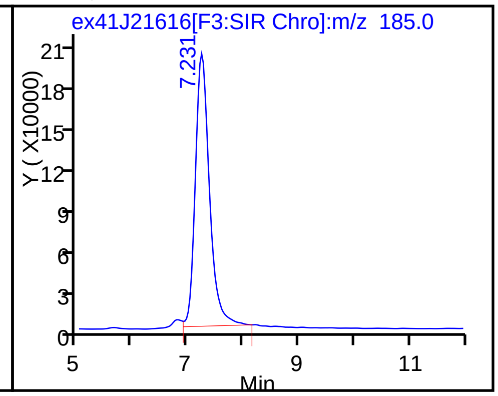
16 2-Amino-4,6-dinitrotoluene (ND)



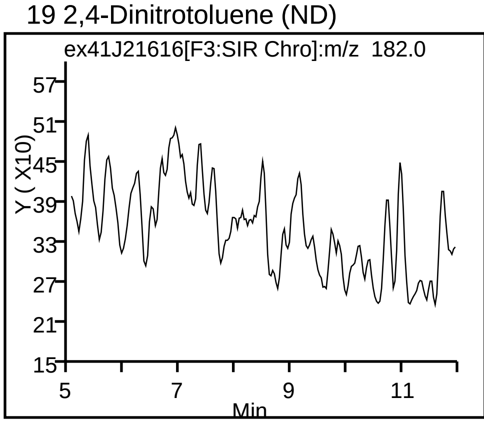
17 2,6-Dinitrotoluene (ND)



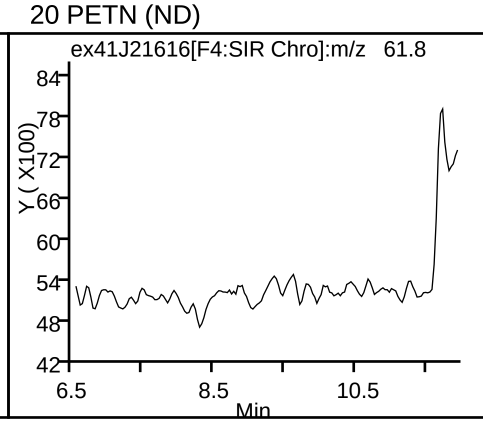
* 18 2,4-dinitrotoluene-d3



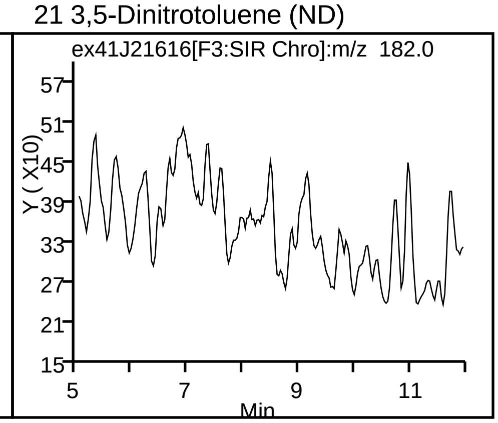
19 2,4-Dinitrotoluene (ND)



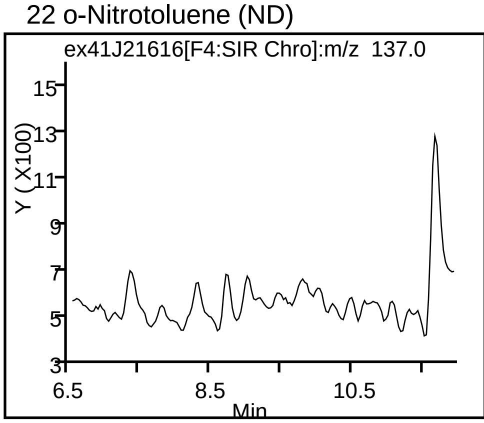
20 PETN (ND)



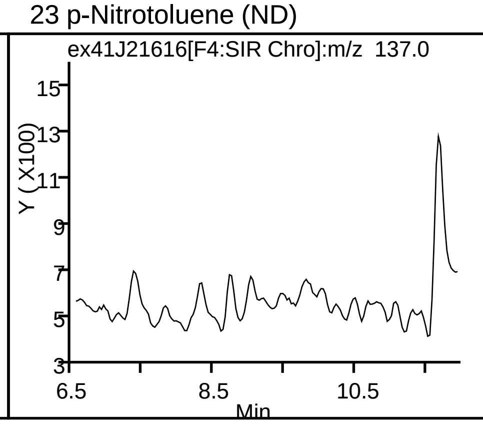
21 3,5-Dinitrotoluene (ND)



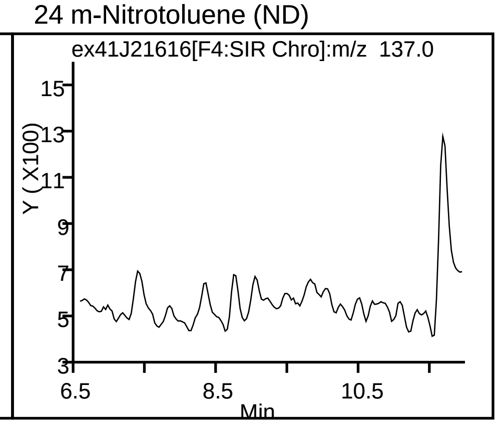
22 o-Nitrotoluene (ND)



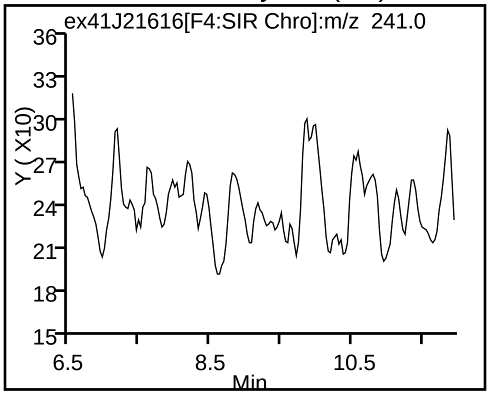
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP01 IS01   Lab Sample ID: 280-21683-74

Matrix: Solid   Lab File ID: ex41J21648.d

Analysis Method: 8321B   Date Collected: 10/16/2011 11:50

Extraction Method: 8330B   Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.13(g)   Date Analyzed: 11/02/2011 07:17

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21648.d		
Lims ID:	280-21683-A-74-D	Client ID:	IS01
Inject. Date:	02-Nov-2011 07:17:16	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-74-D 280-0002689-172		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	106
Lims Batch ID:	94252	Lims Sample ID:	172
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 08:23:48

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		568952	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1875417	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1405591	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	511750	73.6			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Report Date: 02-Nov-2011 10:22:28 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21648.d

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15	2,3-Dinitrotoluene									1
3	182.0		6.492							
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.201	0.030		3751513	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.262							
20	PETN									1
4	61.8		7.768							
21	3,5-Dinitrotoluene									
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

QC Flag Legend

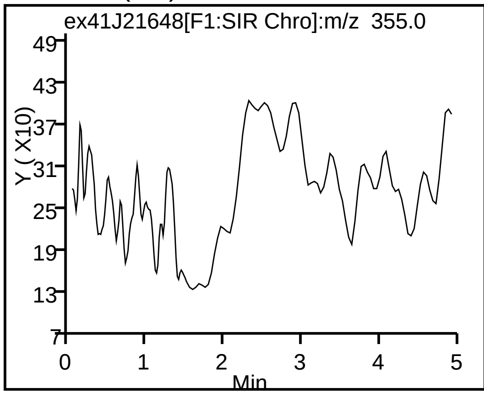
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 10:22:28 Chrom Revision: 1.2 13-Jul-2011 10:43:06

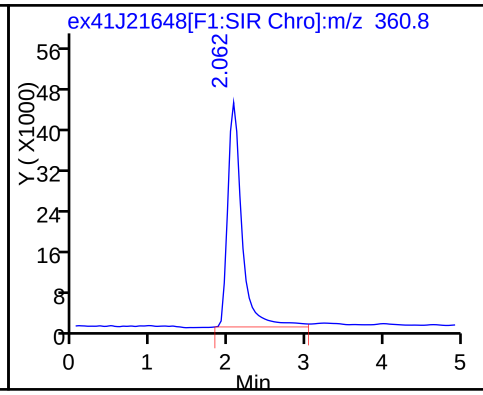
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21648.d

Injection Date:	02-Nov-2011 07:17:16	Limit Group:	LC - 8321A Expl
Client ID:	IS01	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	172
Operator ID:		Injection Vol:	40.00 ul

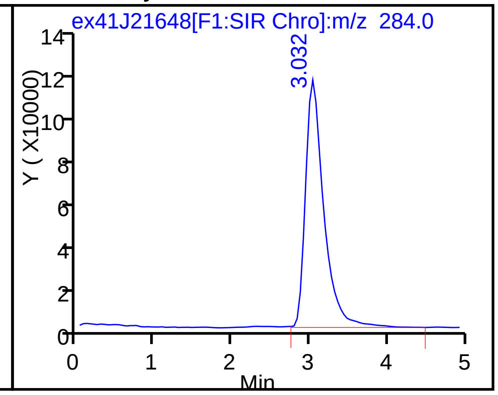
2 HMX (ND)



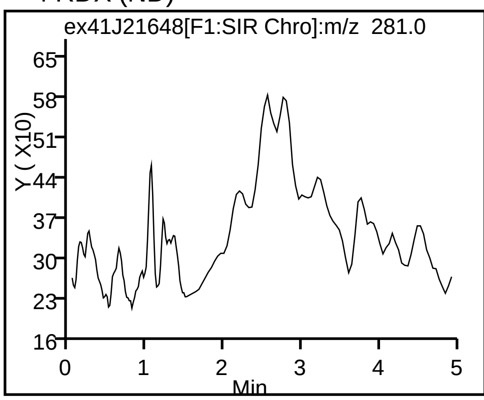
* 1 HMX-13C4



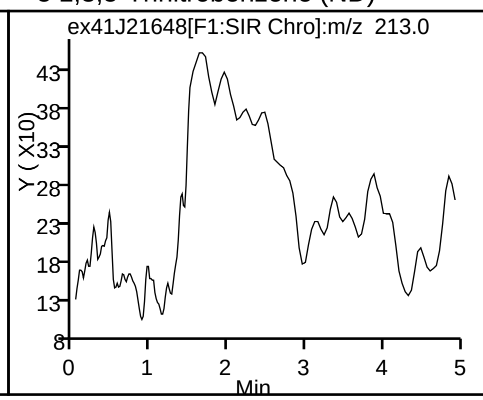
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



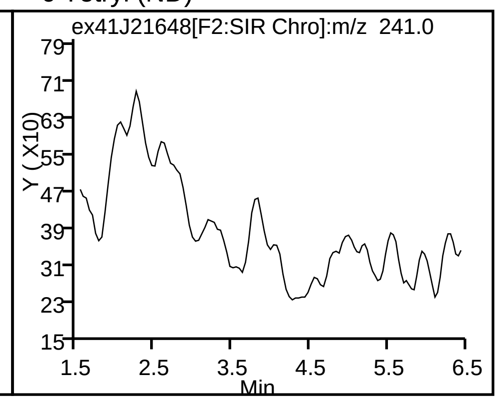
4 RDX (ND)



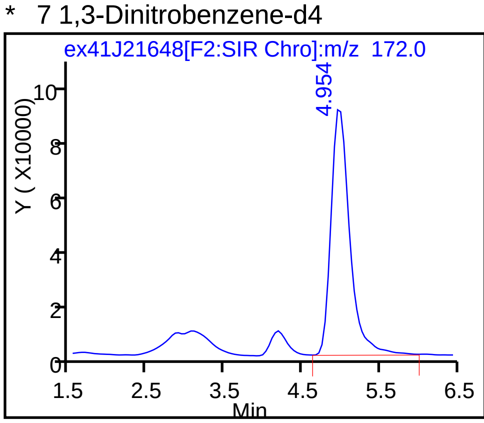
5 1,3,5-Trinitrobenzene (ND)



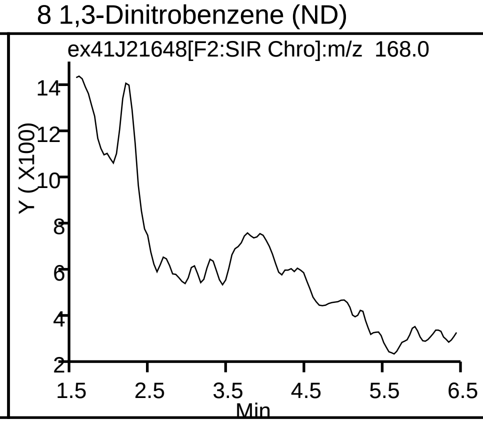
6 Tetryl (ND)



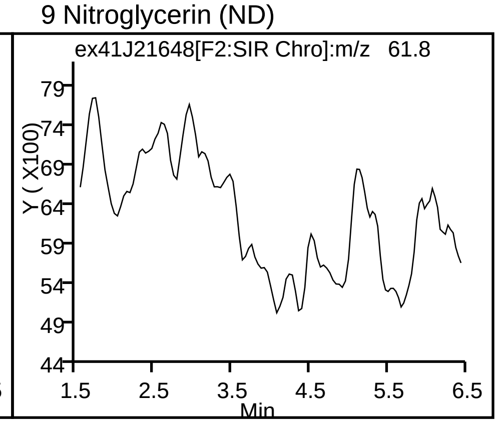
* 7 1,3-Dinitrobenzene-d4



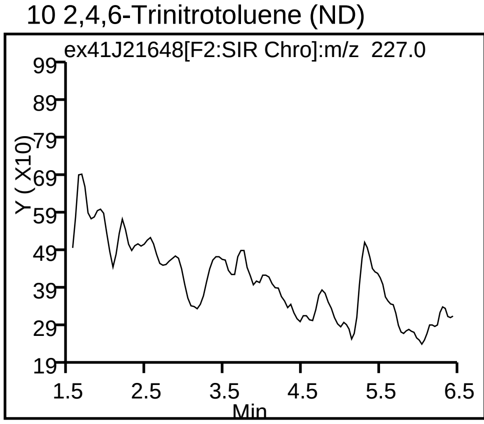
8 1,3-Dinitrobenzene (ND)



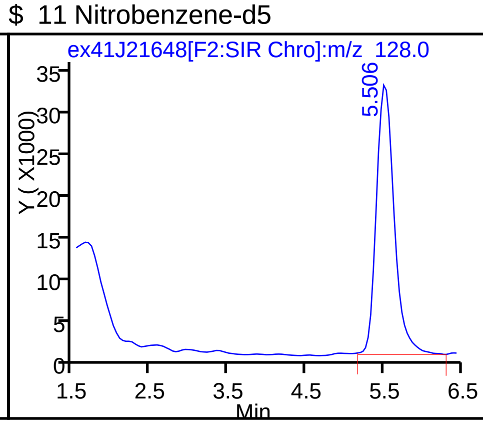
9 Nitroglycerin (ND)



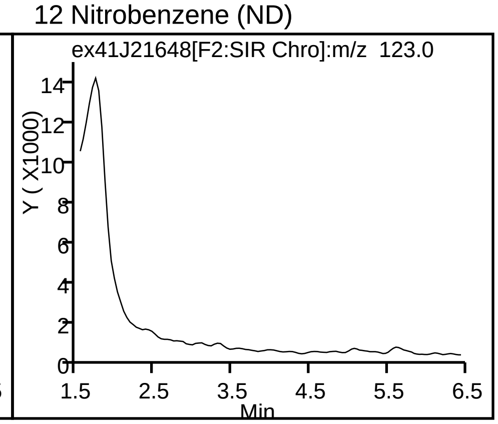
10 2,4,6-Trinitrotoluene (ND)



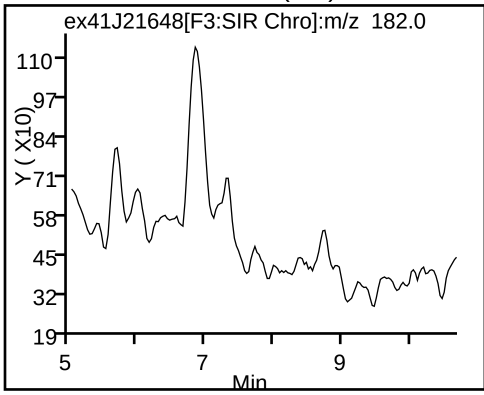
$ 11 Nitrobenzene-d5



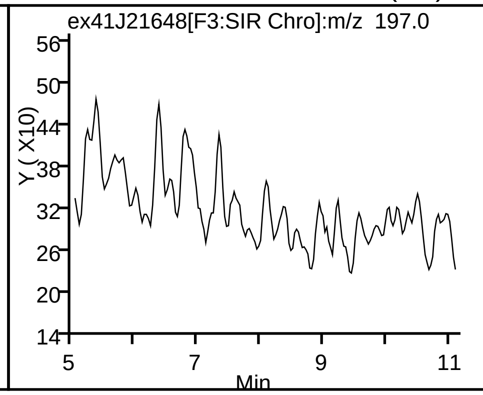
12 Nitrobenzene (ND)



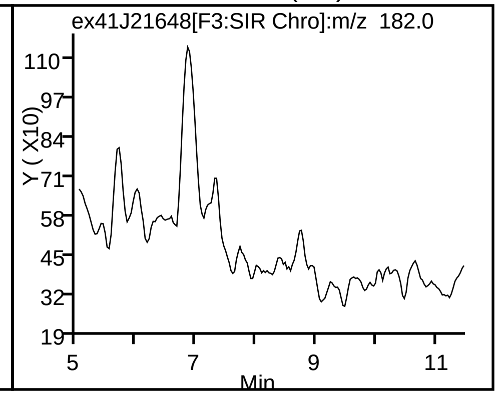
13 3,4-Dinitrotoluene (ND)



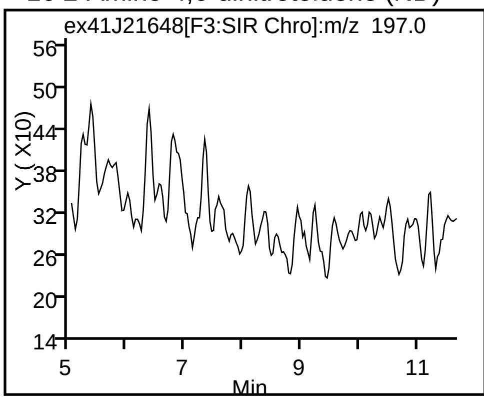
14 4-Amino-2,6-dinitrotoluene (ND)



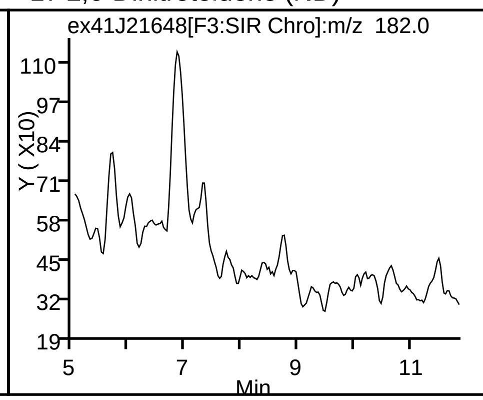
15 2,3-Dinitrotoluene (ND)



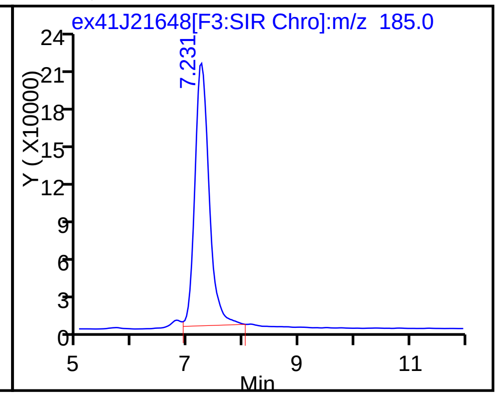
16 2-Amino-4,6-dinitrotoluene (ND)



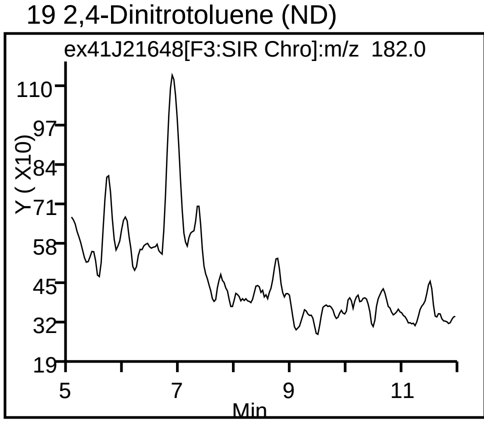
17 2,6-Dinitrotoluene (ND)



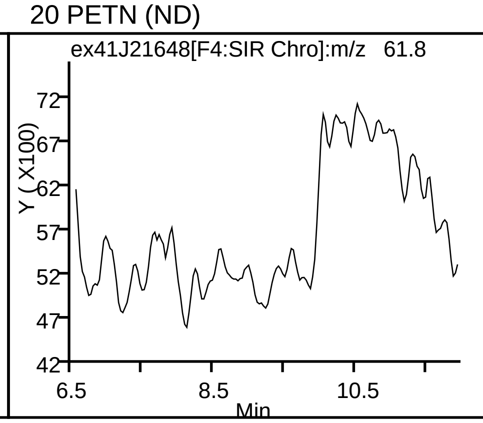
* 18 2,4-dinitrotoluene-d3



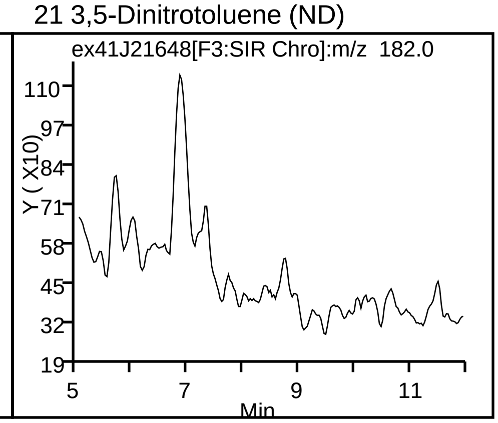
19 2,4-Dinitrotoluene (ND)



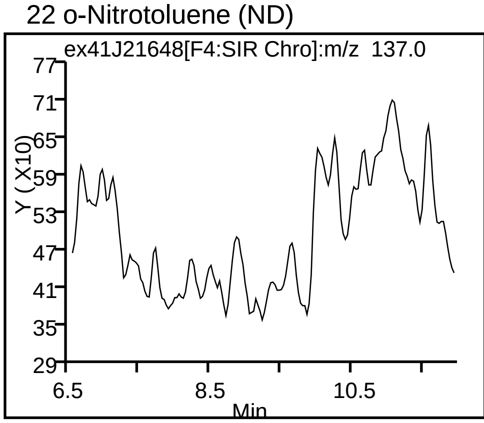
20 PETN (ND)



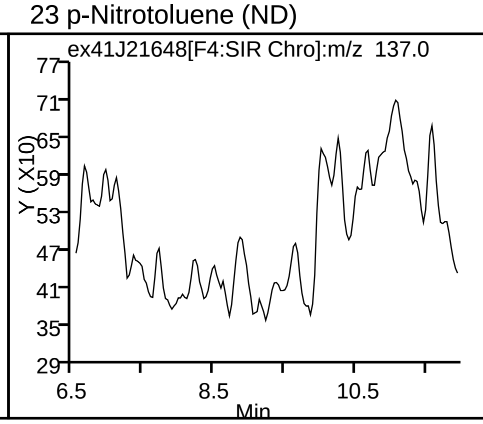
21 3,5-Dinitrotoluene (ND)



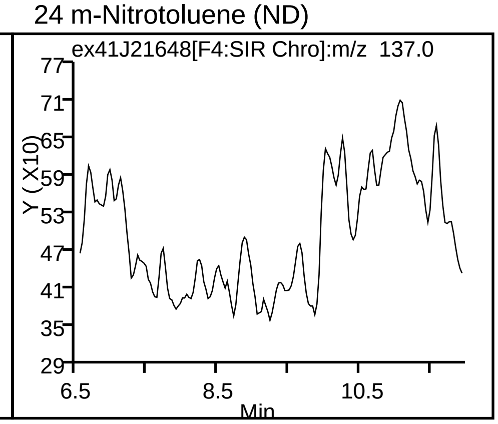
22 o-Nitrotoluene (ND)



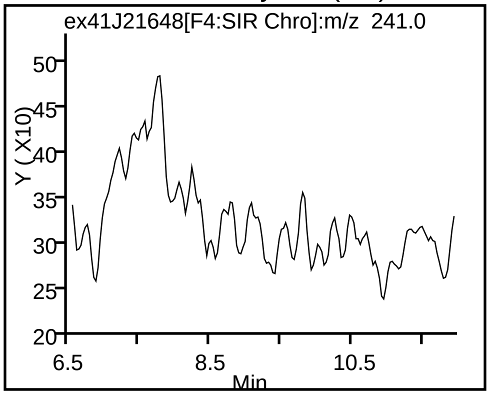
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP01 IS02   Lab Sample ID: 280-21683-75

Matrix: Solid   Lab File ID: ex41J21649.d

Analysis Method: 8321B   Date Collected: 10/16/2011 13:21

Extraction Method: 8330B   Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.27(g)   Date Analyzed: 11/02/2011 07:30

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U M	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U M	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U M	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21649.d		
Lims ID:	280-21683-A-75-D	Client ID:	IS02
Inject. Date:	02-Nov-2011 07:30:50	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-75-D 280-0002689-173		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	107
Lims Batch ID:	94252	Lims Sample ID:	173
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:36:12	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 12:22:36

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		623264	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2003051	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1346528	258.7			
8 1,3-Dinitrobenzene										
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										M
2	227.0	5.438	5.483	0.000	1.098	16913	1.24			M
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.551	0.000	1.111	534904	80.4			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										M
3	182.0	6.867	6.896	0.000	0.950	34182	0.7617			M
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		4213671	250.0			
19 2,4-Dinitrotoluene										M
3	182.0	7.231	7.323	-0.061	1.000	6360	0.4526			M
20 PETN										
4	61.8		7.768							
21 3,5-Dinitrotoluene										
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

QC Flag Legend

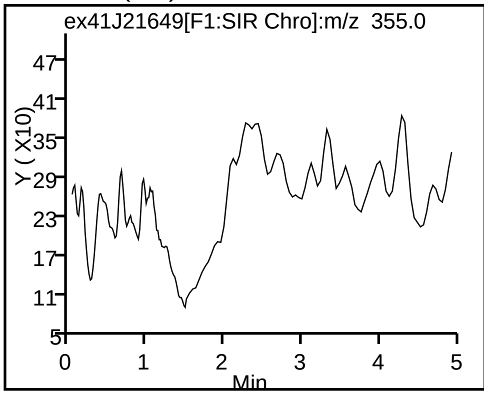
Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

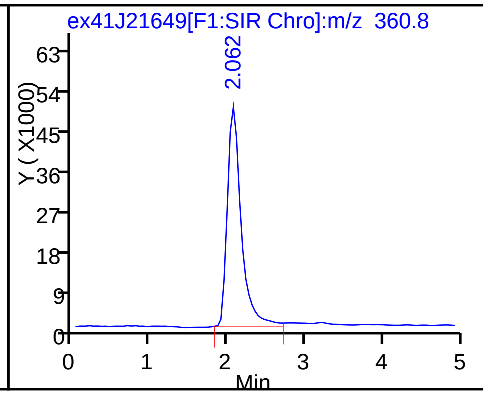
Report Date: 04-Nov-2011 12:22:36 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21649.d

Injection Date:	02-Nov-2011 07:30:50	Limit Group:	LC - 8321A Expl
Client ID:	IS02	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	173
Operator ID:		Injection Vol:	40.00 ul

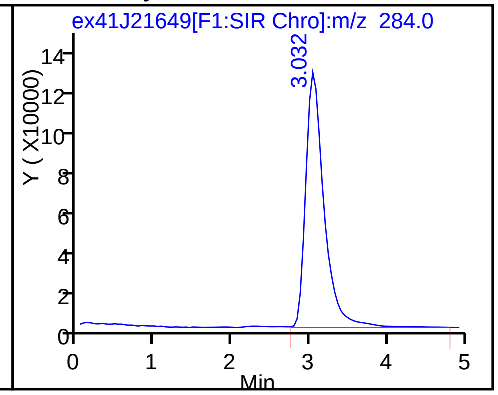
2 HMX (ND)



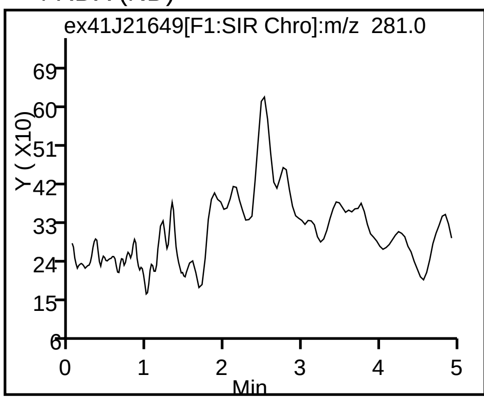
* 1 HMX-13C4



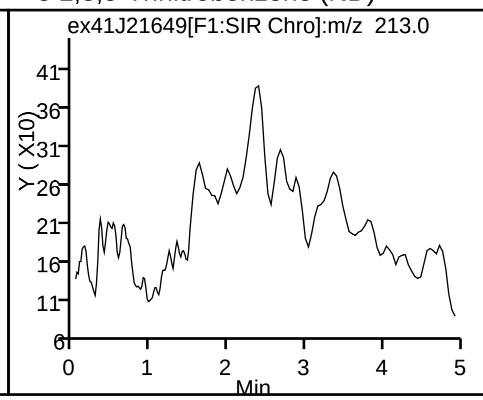
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



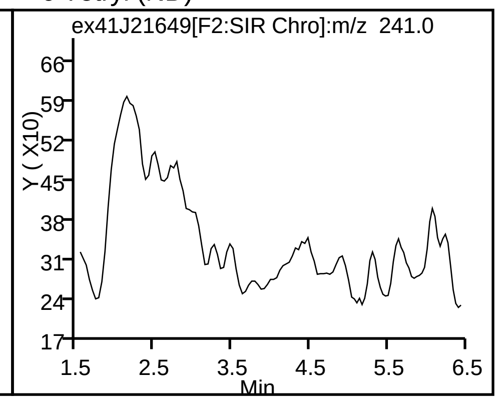
4 RDX (ND)



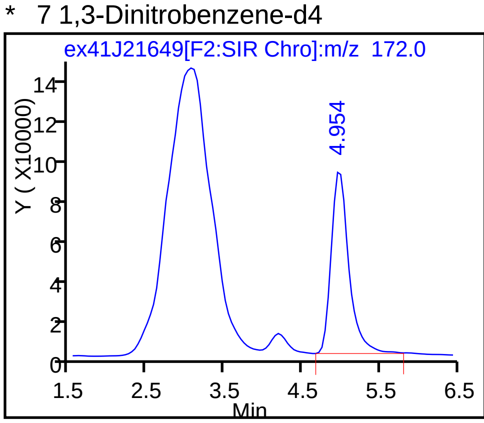
5 1,3,5-Trinitrobenzene (ND)



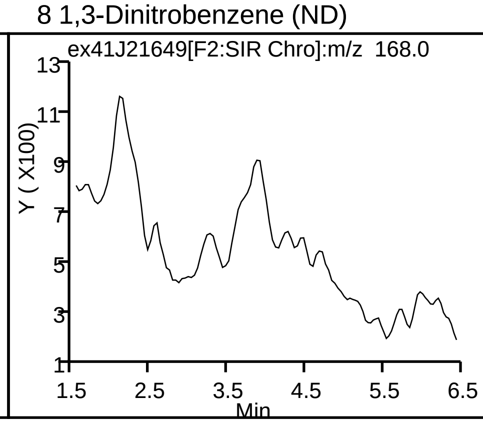
6 Tetryl (ND)



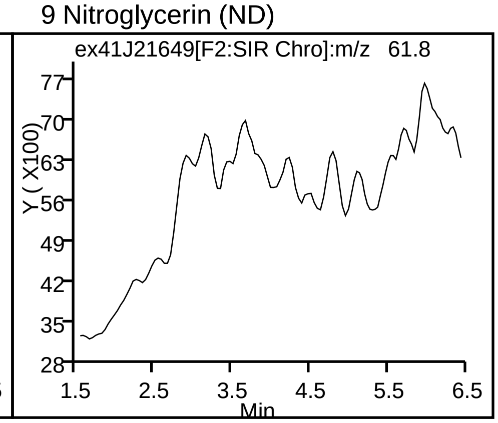
* 7 1,3-Dinitrobenzene-d4



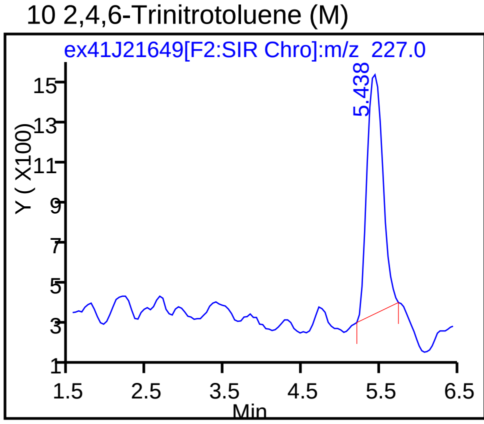
8 1,3-Dinitrobenzene (ND)



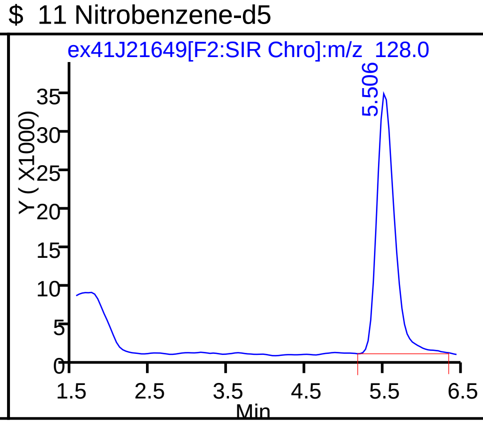
9 Nitroglycerin (ND)



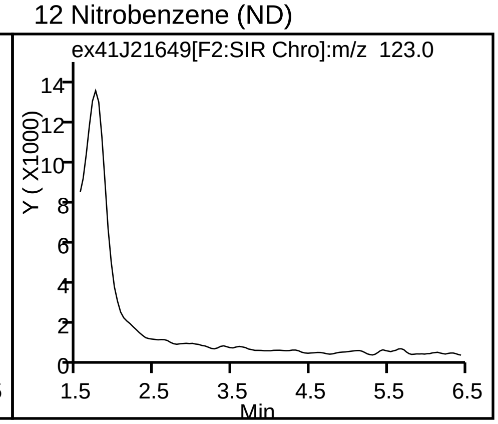
10 2,4,6-Trinitrotoluene (M)



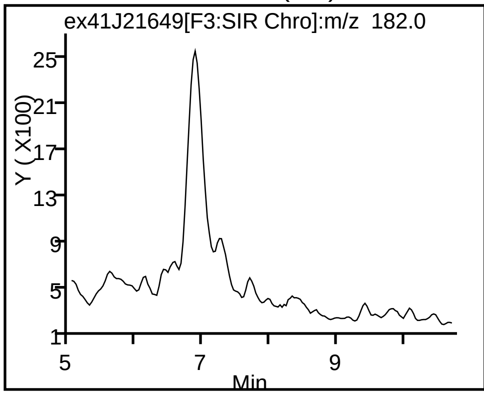
$ 11 Nitrobenzene-d5



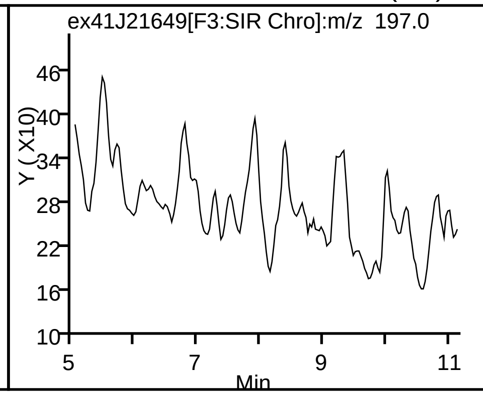
12 Nitrobenzene (ND)



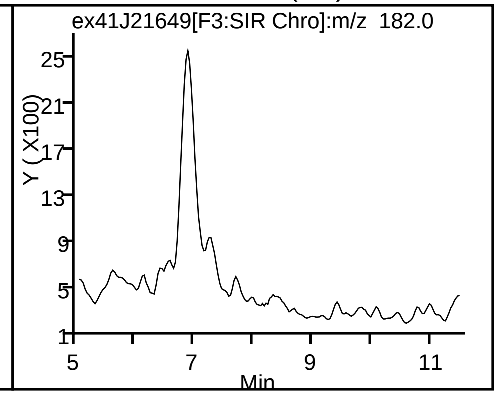
13 3,4-Dinitrotoluene (ND)



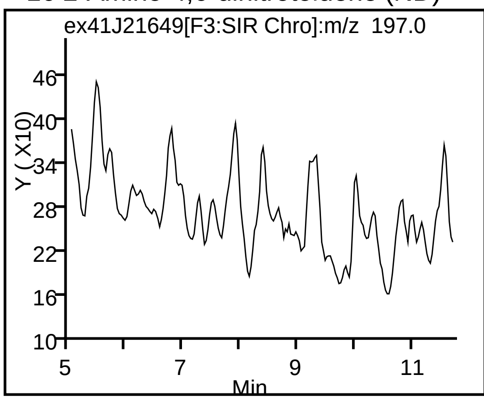
14 4-Amino-2,6-dinitrotoluene (ND)



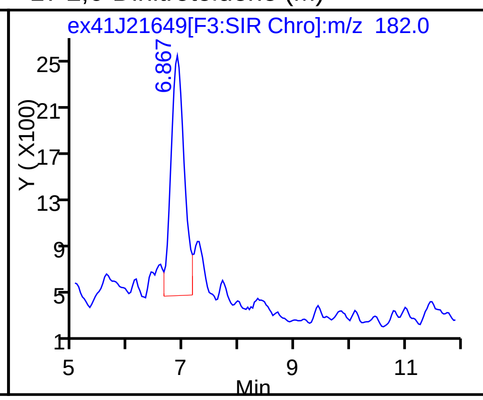
15 2,3-Dinitrotoluene (ND)



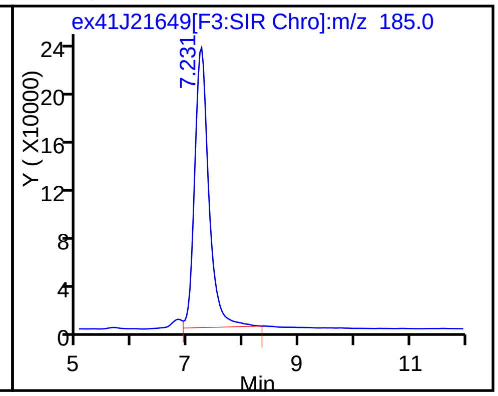
16 2-Amino-4,6-dinitrotoluene (ND)



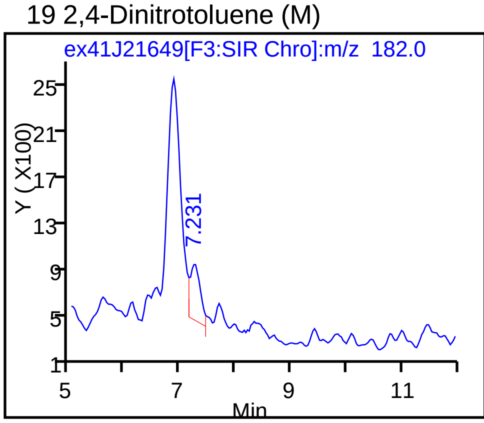
17 2,6-Dinitrotoluene (M)



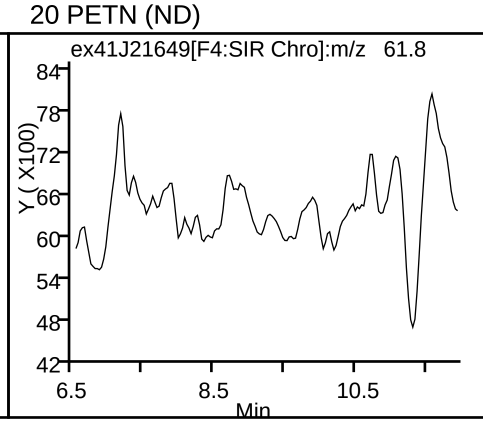
* 18 2,4-dinitrotoluene-d3



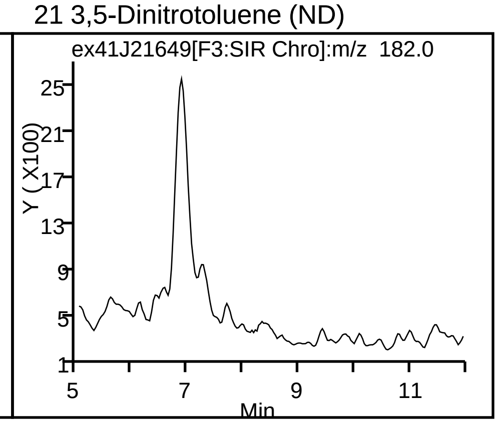
19 2,4-Dinitrotoluene (M)



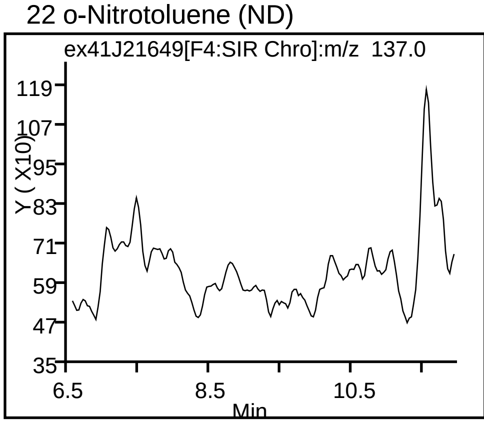
20 PETN (ND)



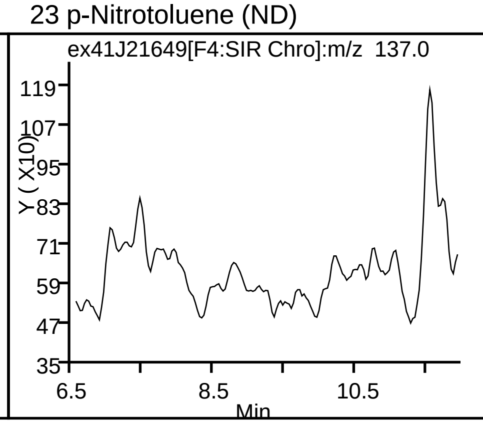
21 3,5-Dinitrotoluene (ND)



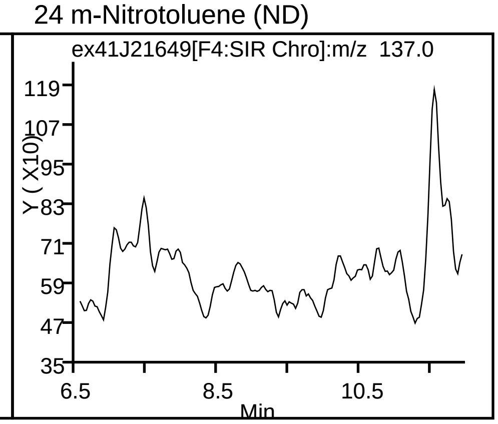
22 o-Nitrotoluene (ND)



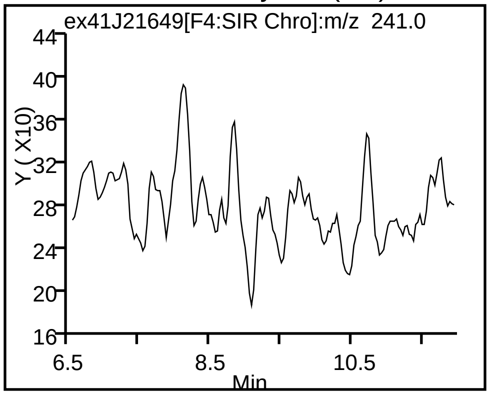
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



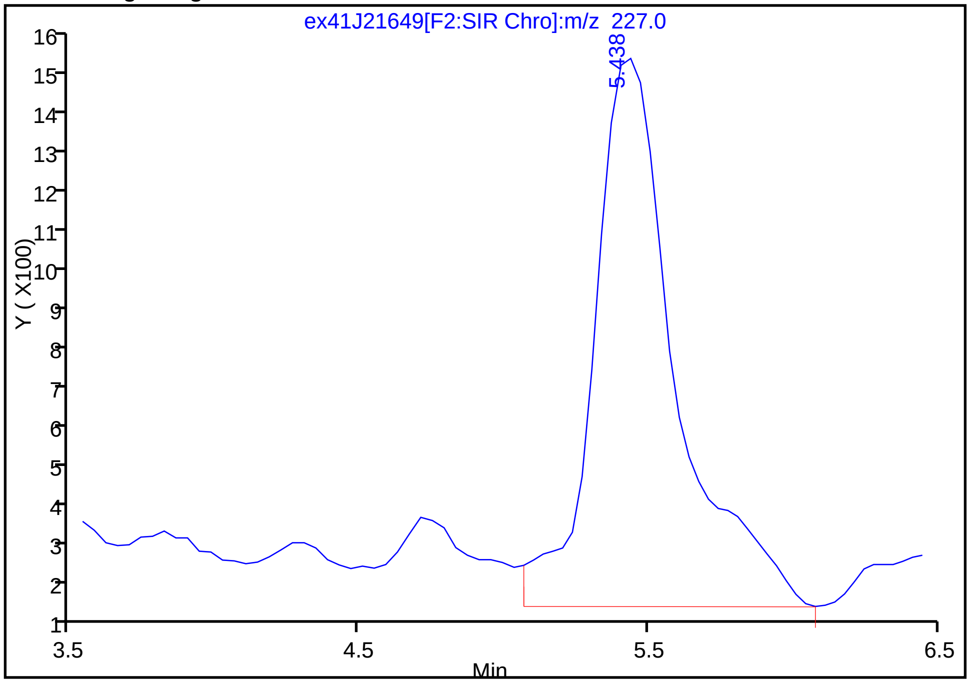
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21649.d		
Injection Date:	02-Nov-2011 07:30:50	Limit Group:	LC - 8321A Expl
Client ID:	IS02	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	173
Operator ID:		Injection Vol:	40.00 ul

10 2,4,6-Trinitrotoluene, Signal: 1, m/z: 227.0 Type: quant, RT: 5.44, Det: F2:SIR

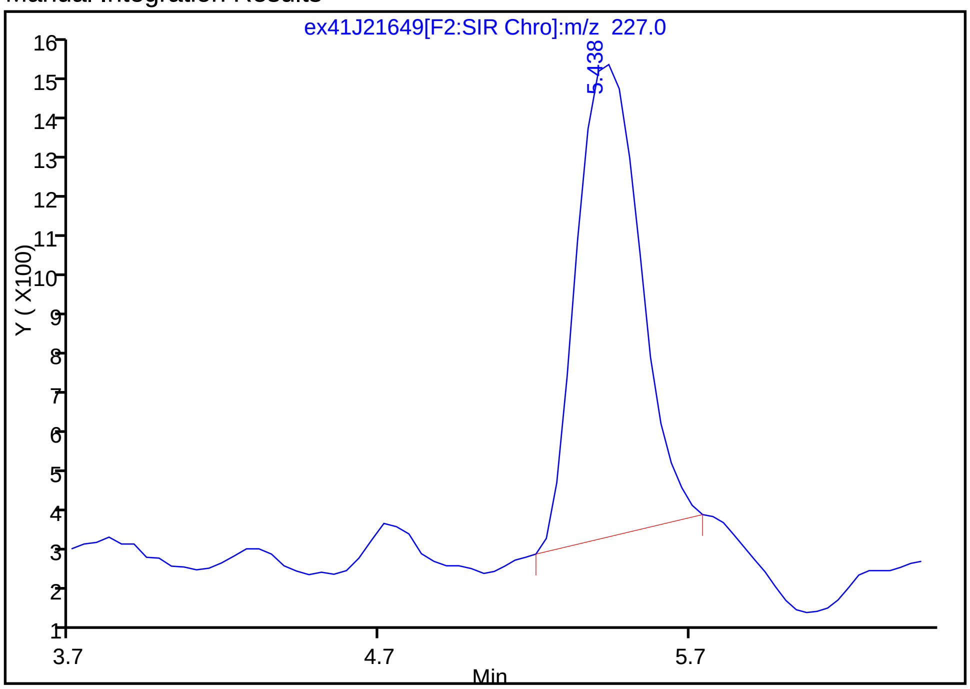
Processing Integration Results

RT: 5.44
Response: 26905
Amount: 1.629977



Manual Integration Results

RT: 5.44
Response: 16913
Amount: 1.244830



Reviewer: meyera, 04-Nov-2011 12:22:27
Audit Action: Manually Integrated
Audit Reason: Baseline

Report Date: 04-Nov-2011 12:22:36 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Manual Integration/User Assign Peak Report

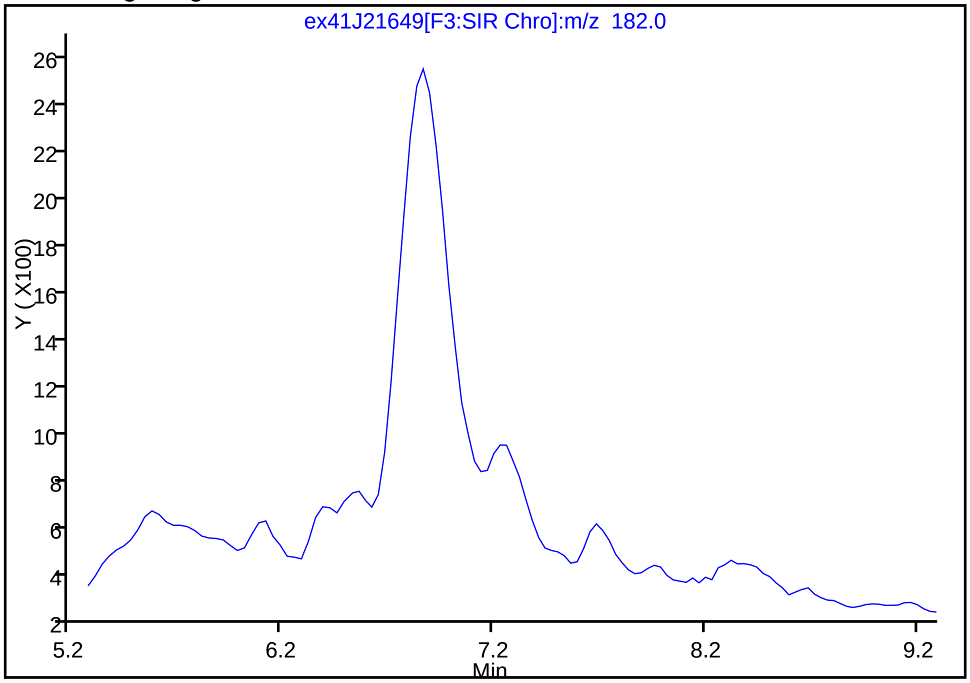
Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21649.d		
Injection Date:	02-Nov-2011 07:30:50	Limit Group:	LC - 8321A Expl
Client ID:	IS02	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	173
Operator ID:		Injection Vol:	40.00 ul

19 2,4-Dinitrotoluene, Signal: 1, m/z: 182.0 Type: quant, RT: 7.29, Det: F3:SIR

Processing Integration Results

Not Detected

Expected RT: 7.29

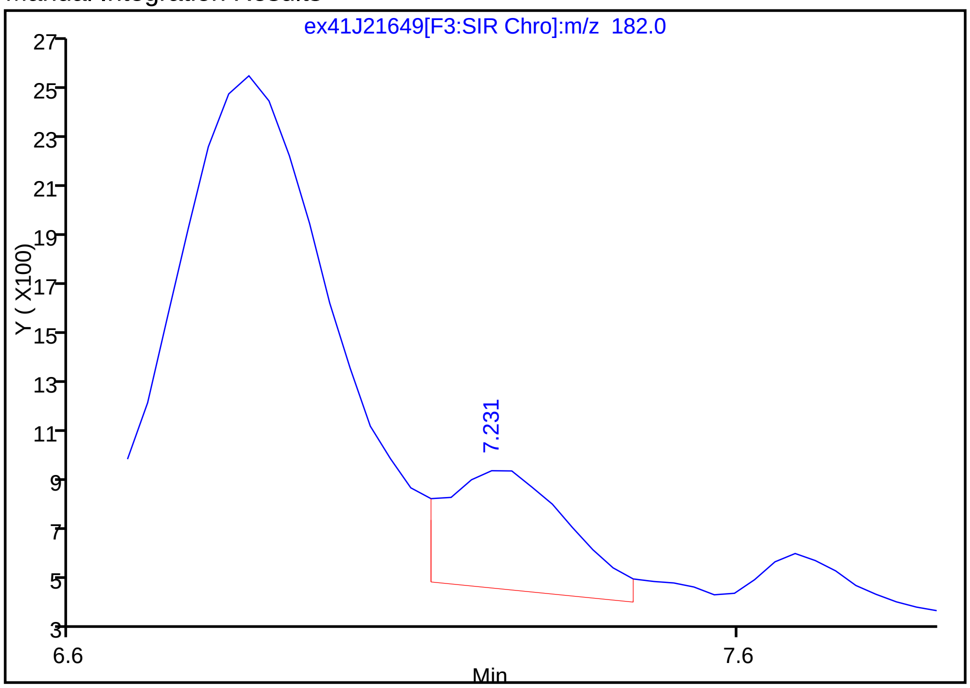


Manual Integration Results

RT: 7.23

Response: 6360

Amount: 0.452570



Reviewer: meyera, 02-Nov-2011 08:24:24

Audit Action: Manually Integrated

Audit Reason: Assign Peak

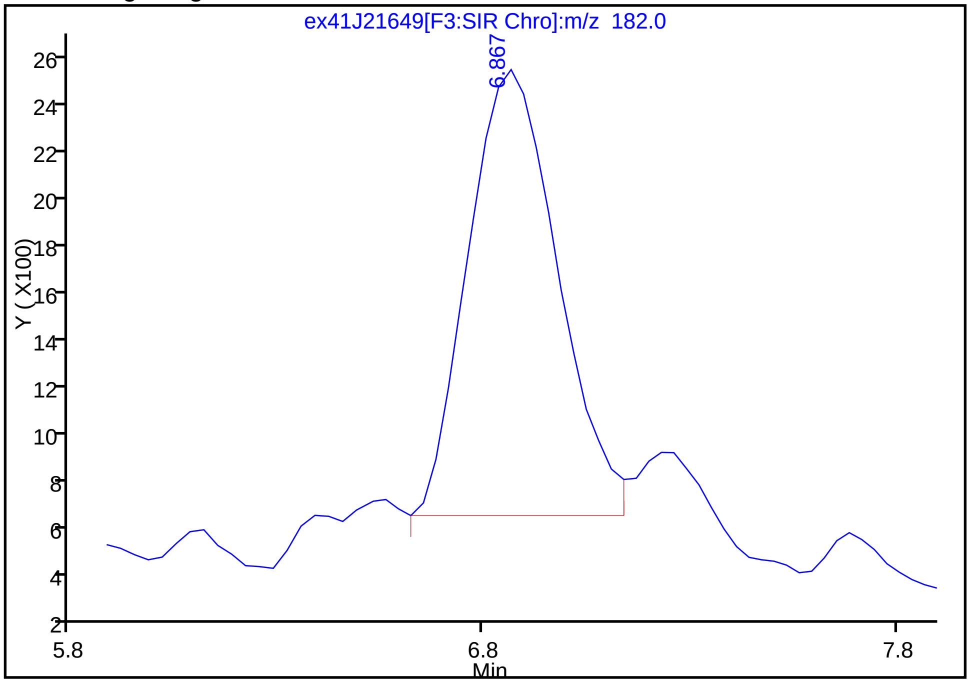
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21649.d		
Injection Date:	02-Nov-2011 07:30:50	Limit Group:	LC - 8321A Expl
Client ID:	IS02	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	173
Operator ID:		Injection Vol:	40.00 ul

17 2,6-Dinitrotoluene, Signal: 1, m/z: 182.0 Type: quant, RT: 6.87, Det: F3:SIR

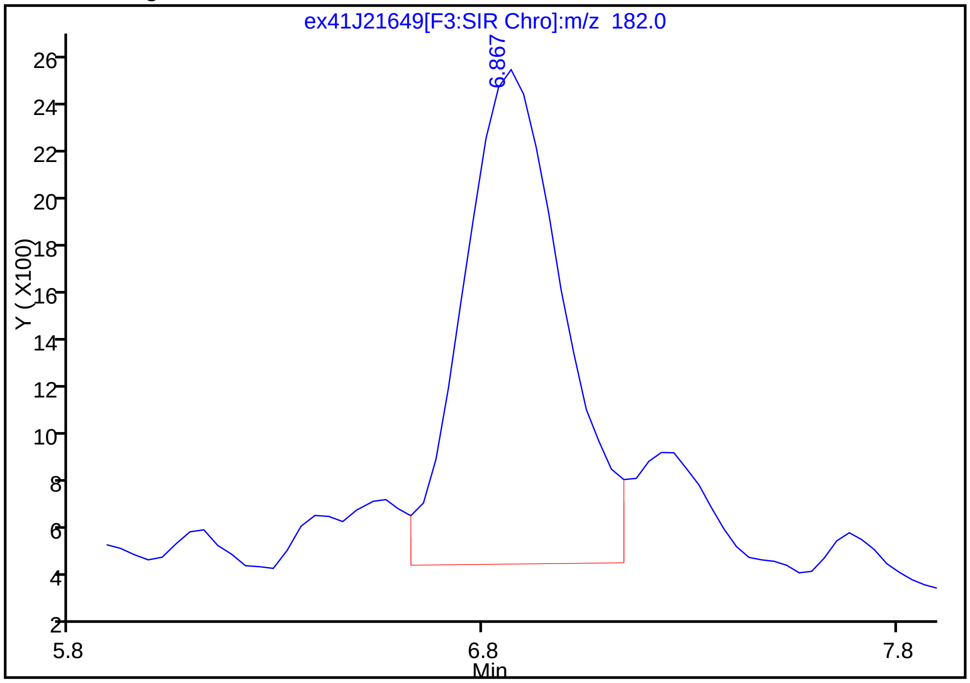
Processing Integration Results

RT: 6.87
Response: 27686
Amount: 0.616845



Manual Integration Results

RT: 6.87
Response: 34182
Amount: 0.761736



Reviewer: meyera, 02-Nov-2011 08:24:24
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP01 IS03   Lab Sample ID: 280-21683-76

Matrix: Solid   Lab File ID: ex41J21650.d

Analysis Method: 8321B   Date Collected: 10/16/2011 14:32

Extraction Method: 8330B   Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.36(g)   Date Analyzed: 11/02/2011 07:44

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U M	0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U M	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21650.d		
Lims ID:	280-21683-A-76-D	Client ID:	IS03
Inject. Date:	02-Nov-2011 07:44:25	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-76-D 280-0002689-174		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	108
Lims Batch ID:	94252	Lims Sample ID:	174
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 08:24:50

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		630228	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1936222	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1405738	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	524057	75.4			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										M
3	182.0	6.867	6.867	0.000	0.954	28379	0.6163			M
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4322850	250.0			
19 2,4-Dinitrotoluene										M
3	182.0	7.261	7.262	-0.001	1.008	5408	0.4020			M
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

QC Flag Legend

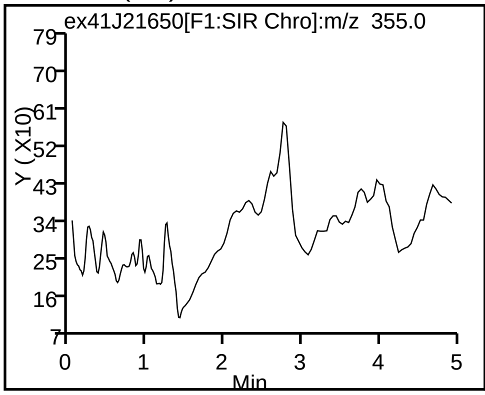
Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

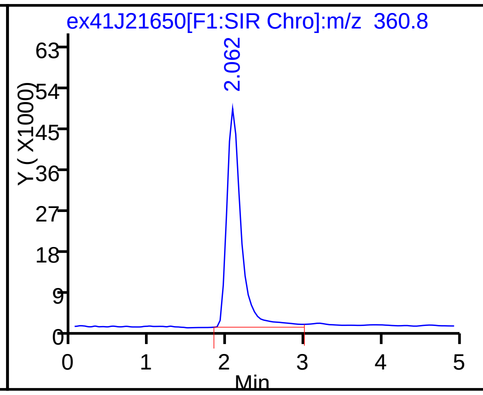
Report Date: 02-Nov-2011 10:22:30 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21650.d

Injection Date:	02-Nov-2011 07:44:25	Limit Group:	LC - 8321A Expl
Client ID:	IS03	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	174
Operator ID:		Injection Vol:	40.00 ul

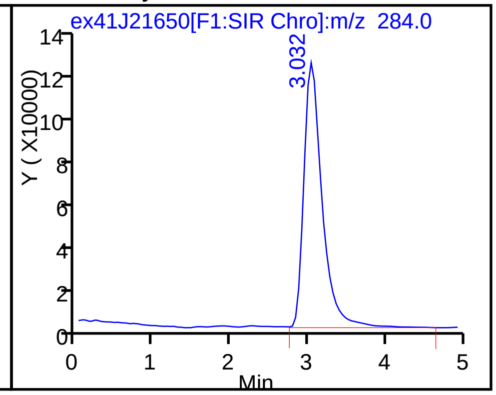
2 HMX (ND)



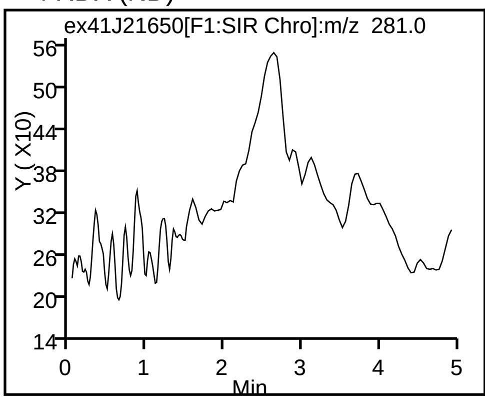
* 1 HMX-13C4



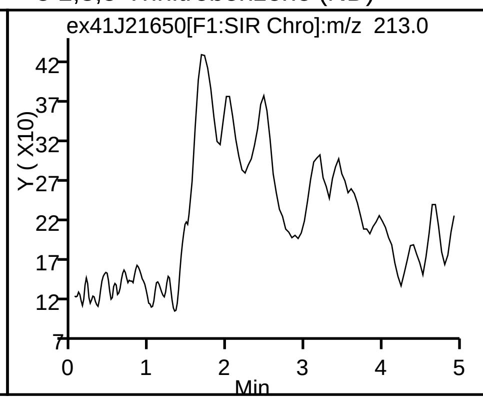
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



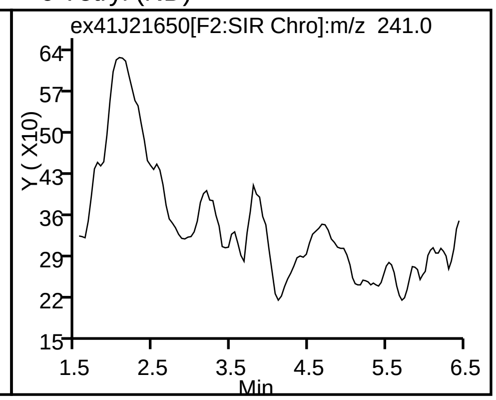
4 RDX (ND)



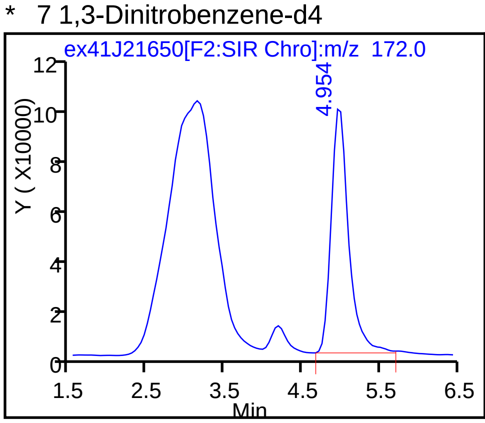
5 1,3,5-Trinitrobenzene (ND)



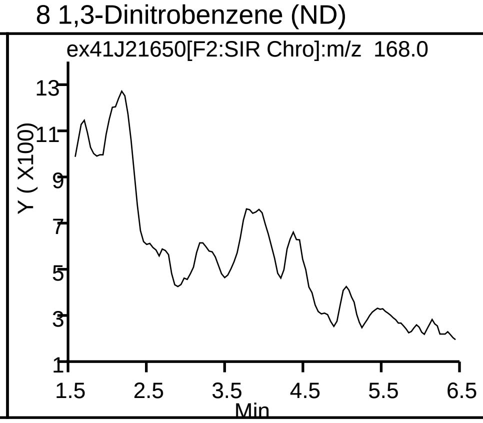
6 Tetryl (ND)



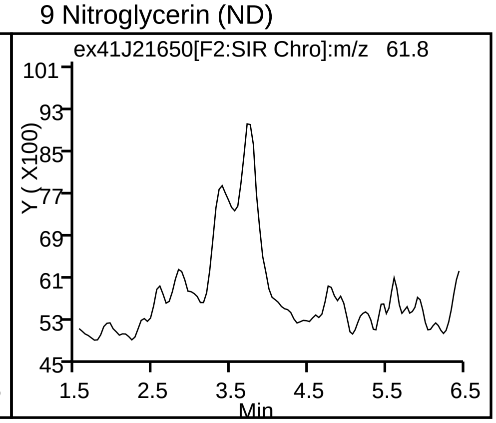
* 7 1,3-Dinitrobenzene-d4



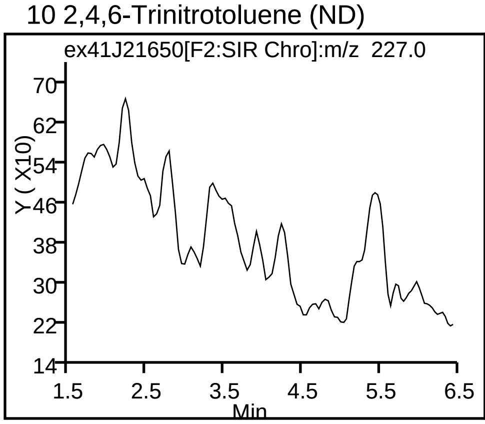
8 1,3-Dinitrobenzene (ND)



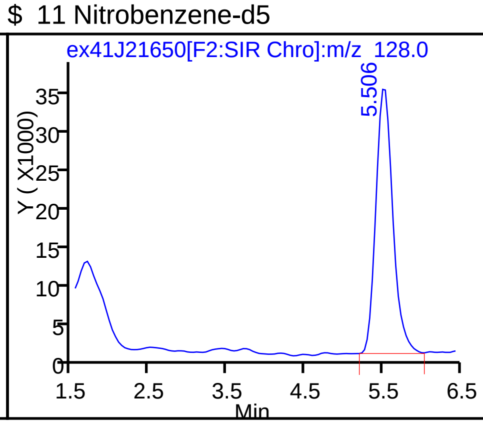
9 Nitroglycerin (ND)



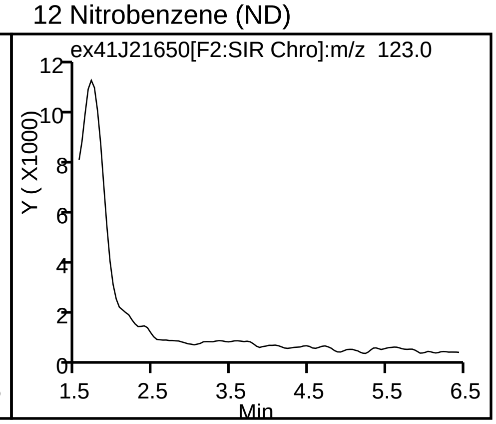
10 2,4,6-Trinitrotoluene (ND)



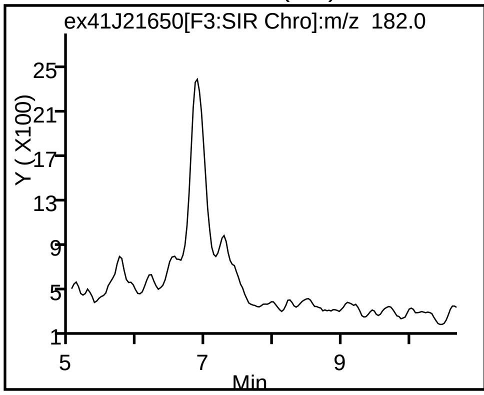
$ 11 Nitrobenzene-d5



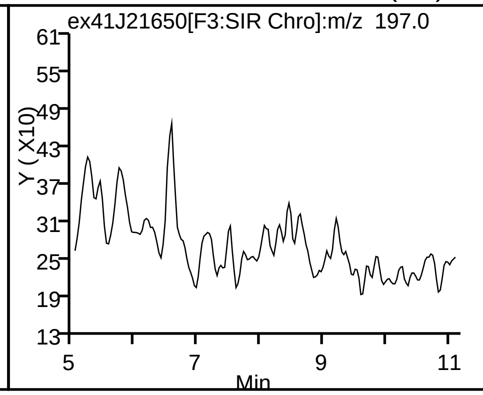
12 Nitrobenzene (ND)



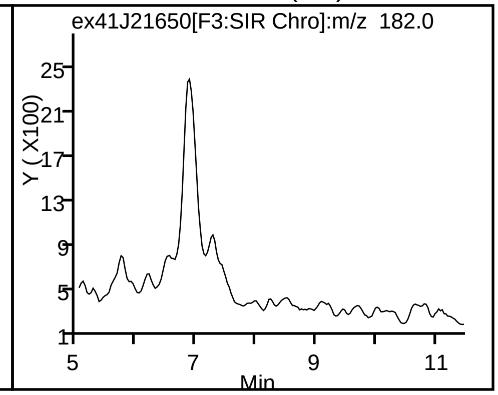
13 3,4-Dinitrotoluene (ND)



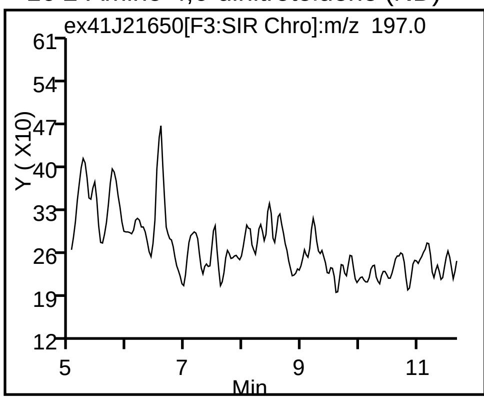
14 4-Amino-2,6-dinitrotoluene (ND)



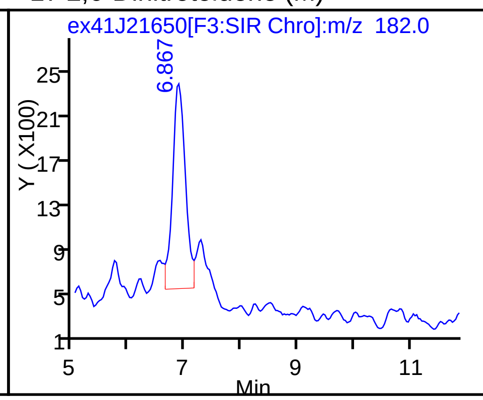
15 2,3-Dinitrotoluene (ND)



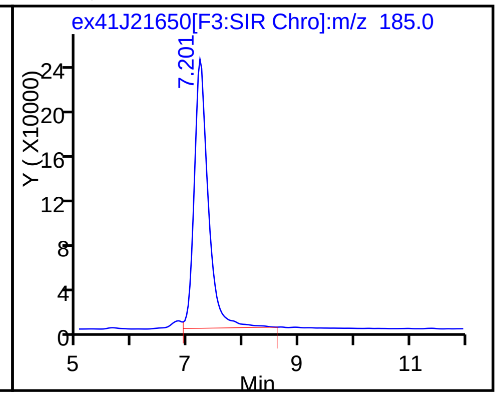
16 2-Amino-4,6-dinitrotoluene (ND)



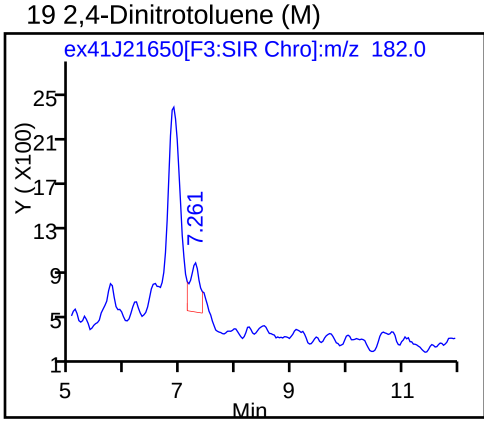
17 2,6-Dinitrotoluene (M)



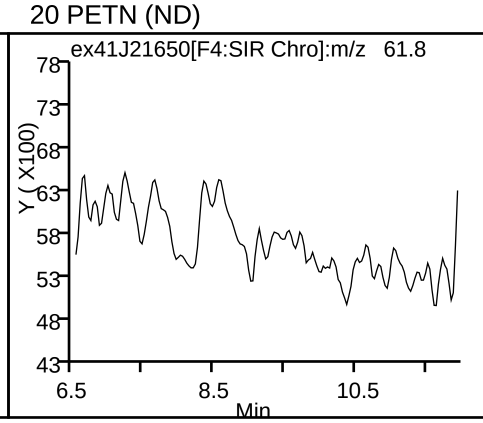
* 18 2,4-dinitrotoluene-d3



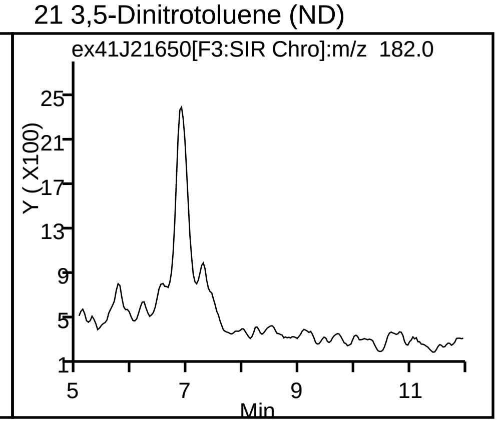
19 2,4-Dinitrotoluene (M)



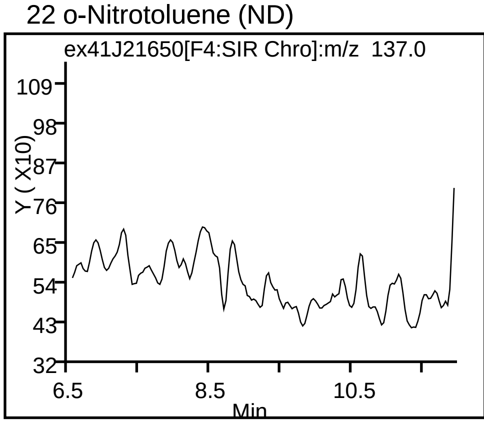
20 PETN (ND)



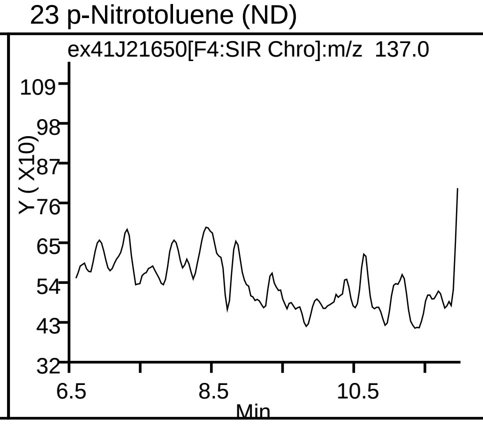
21 3,5-Dinitrotoluene (ND)



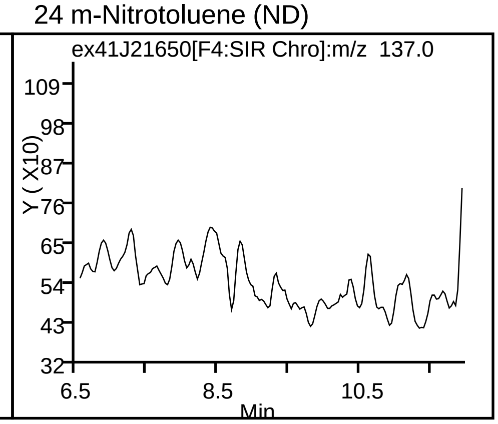
22 o-Nitrotoluene (ND)



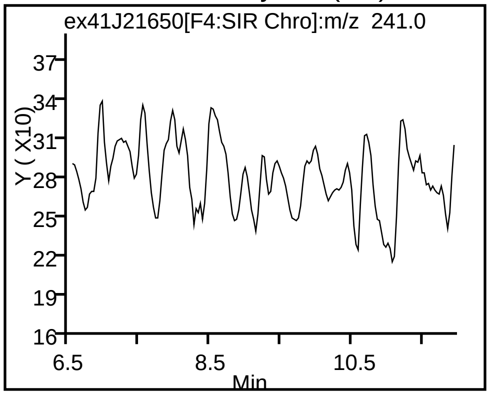
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)

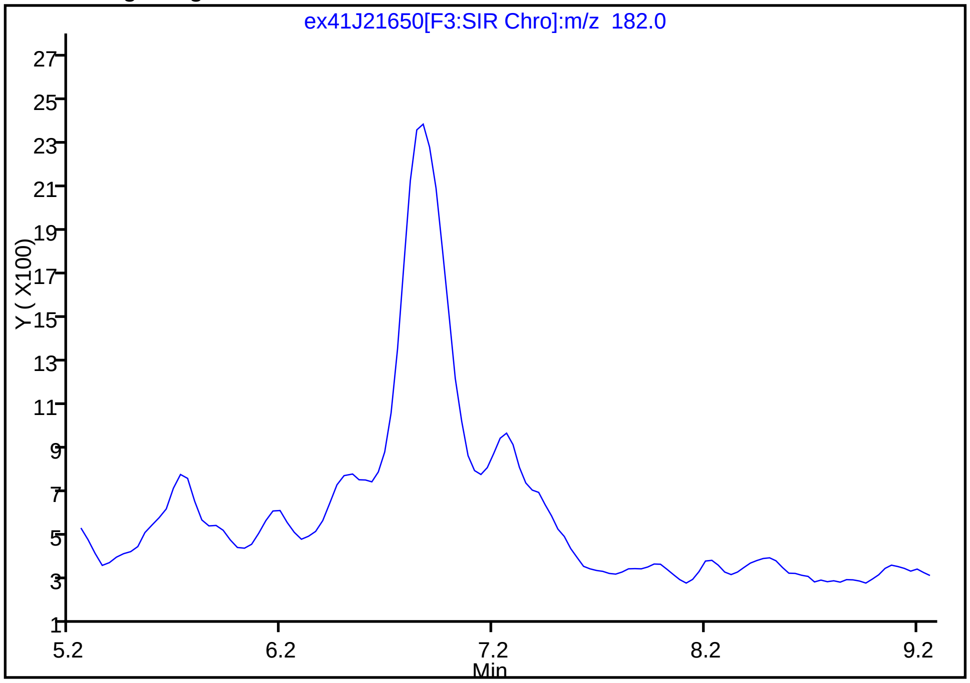


Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21650.d		
Injection Date:	02-Nov-2011 07:44:25	Limit Group:	LC - 8321A Expl
Client ID:	IS03	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	174
Operator ID:		Injection Vol:	40.00 ul

19 2,4-Dinitrotoluene, Signal: 1, m/z: 182.0 Type: quant, RT: 7.26, Det: F3:SIR

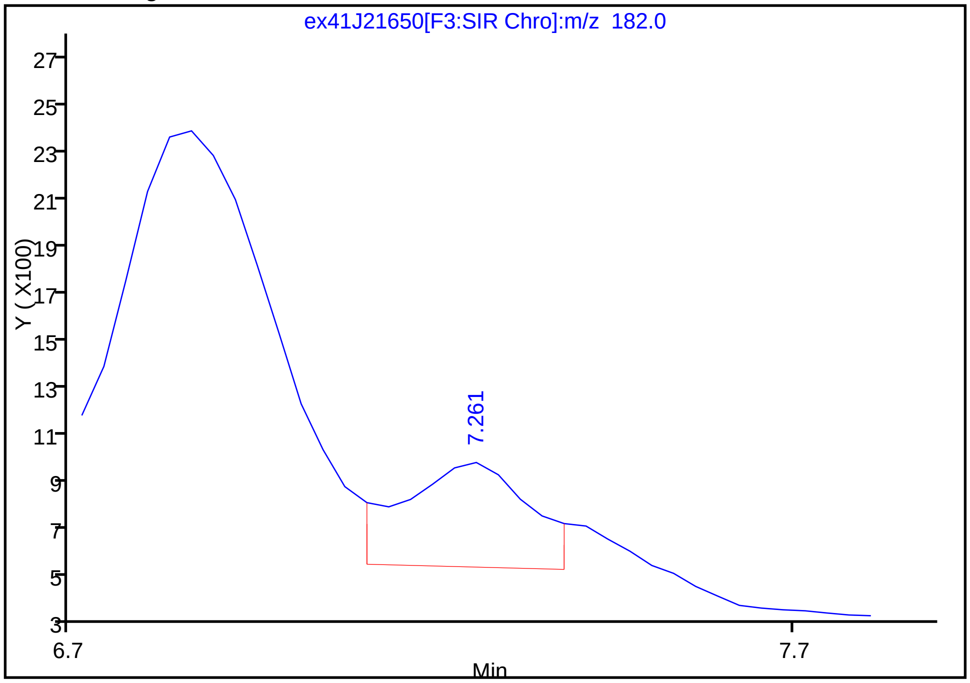
Processing Integration Results

Not Detected
Expected RT: 7.26



Manual Integration Results

RT: 7.26
Response: 5408
Amount: 0.402034



Reviewer: meyera, 02-Nov-2011 08:24:50
Audit Action: Manually Integrated
Audit Reason: Assign Peak

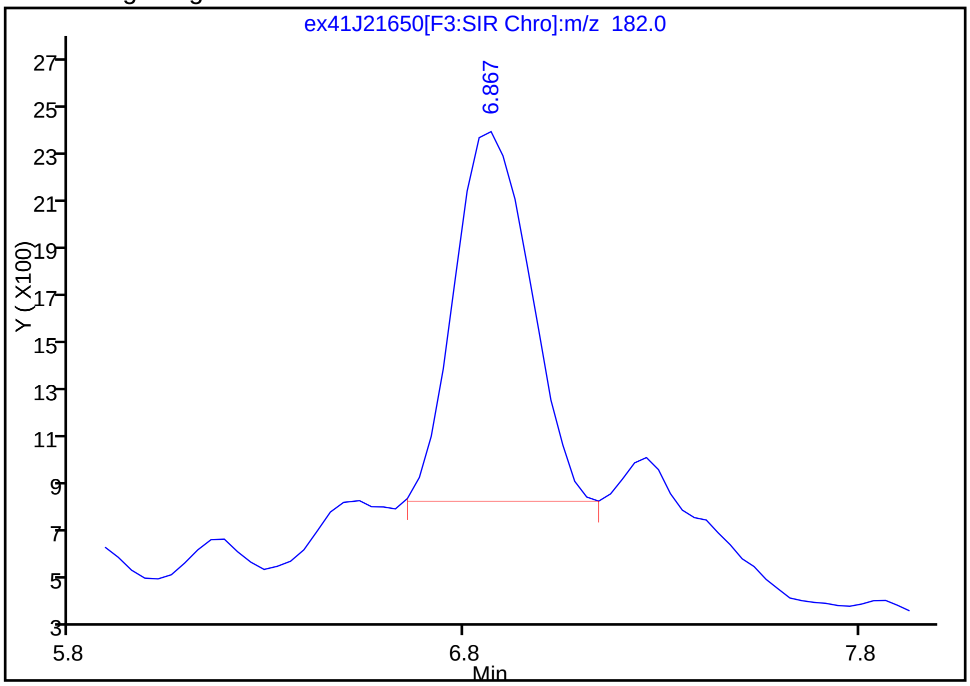
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21650.d		
Injection Date:	02-Nov-2011 07:44:25	Limit Group:	LC - 8321A Expl
Client ID:	IS03	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	174
Operator ID:		Injection Vol:	40.00 ul

17 2,6-Dinitrotoluene, Signal: 1, m/z: 182.0 Type: quant, RT: 6.87, Det: F3:SIR

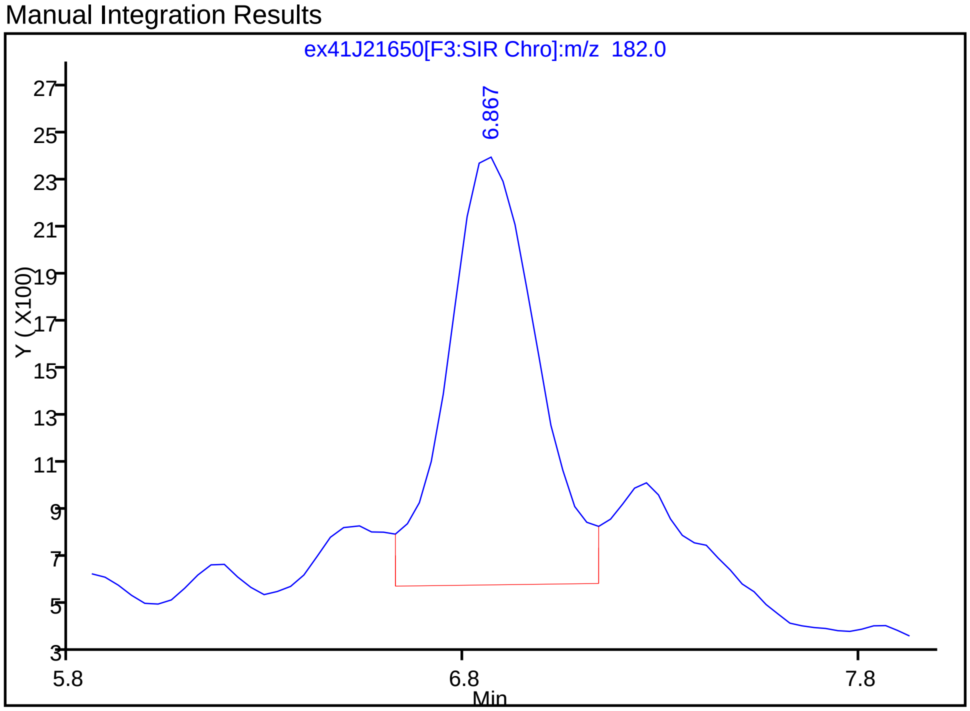
Processing Integration Results

RT: 6.87
Response: 20505
Amount: 0.445125



Manual Integration Results

RT: 6.87
Response: 28379
Amount: 0.616316



Reviewer: meyera, 02-Nov-2011 08:24:50
Audit Action: Manually Integrated
Audit Reason: Baseline

Lab Name:	TestAmerica Denver	Job No.:	280-21683-1
SDG No.:			
Client Sample ID:	CP10 SB014	Lab Sample ID:	280-21683-77
Matrix:	Solid	Lab File ID:	ex41J21617.d
Analysis Method:	8321B	Date Collected:	10/16/2011 11:20
Extraction Method:	8330B	Date Extracted:	10/19/2011 20:50
Sample wt/vol:	10.48(g)	Date Analyzed:	11/02/2011 00:14
Con. Extract Vol.:	40(mL)	Dilution Factor:	1
Injection Volume:	40(uL)	GC Column:	IonPac ID: 2(mm)
% Moisture:		GPC Cleanup:(Y/N)	N
Analysis Batch No.:	94194	Units:	mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21617.d		
Lims ID:	280-21683-B-77-B	Client ID:	SB014
Inject. Date:	02-Nov-2011 00:14:48	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-77-B 280-0002689-141		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	78
Lims Batch ID:	94194	Lims Sample ID:	141
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:18	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		606466	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2027320	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1290927	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.540	-0.034	1.102	537762	84.4			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3930762	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

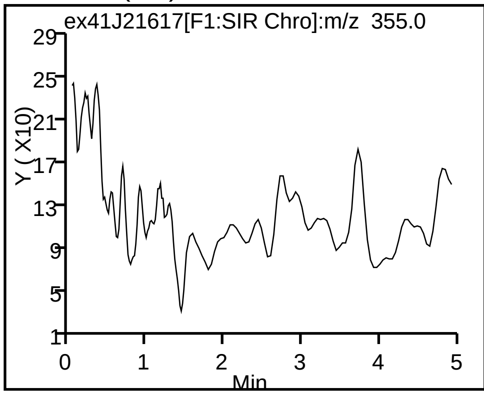
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:54:21 Chrom Revision: 1.2 13-Jul-2011 10:43:06

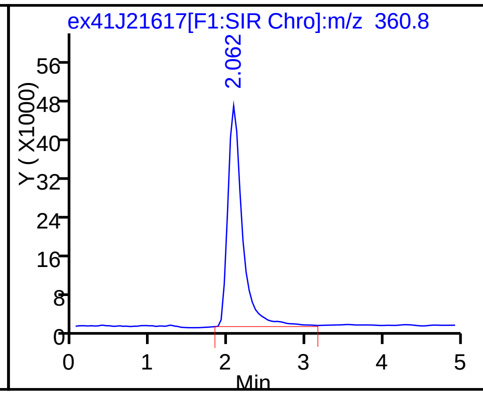
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21617.d

Injection Date:	02-Nov-2011 00:14:48	Limit Group:	LC - 8321A Expl
Client ID:	SB014	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	141
Operator ID:		Injection Vol:	40.00 ul

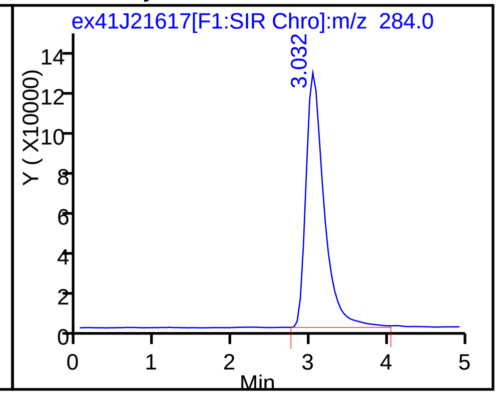
2 HMX (ND)



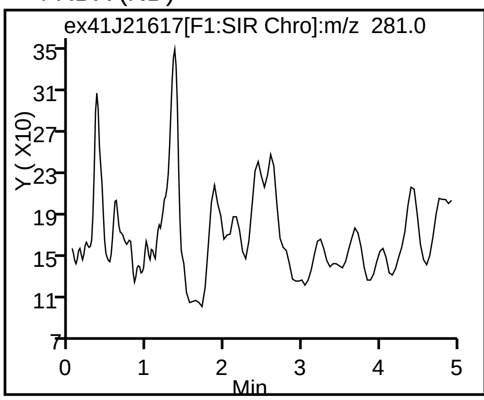
* 1 HMX-13C4



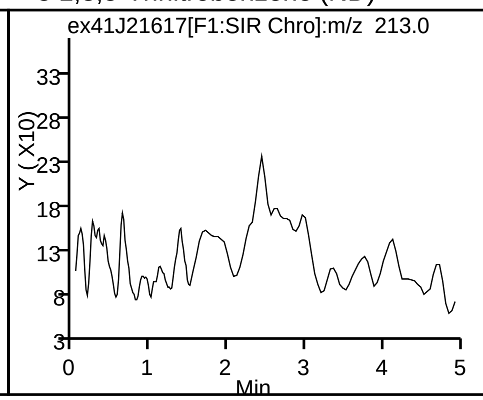
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



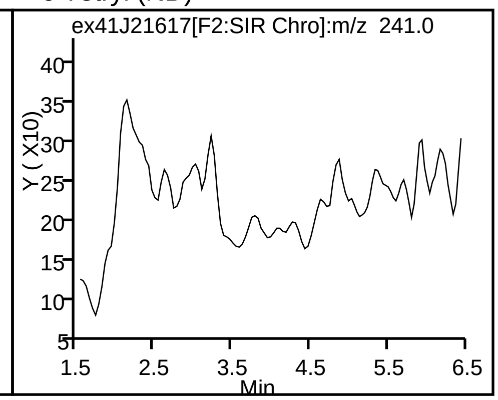
4 RDX (ND)



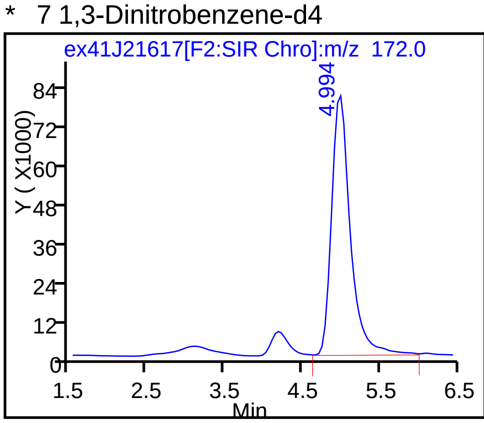
5 1,3,5-Trinitrobenzene (ND)



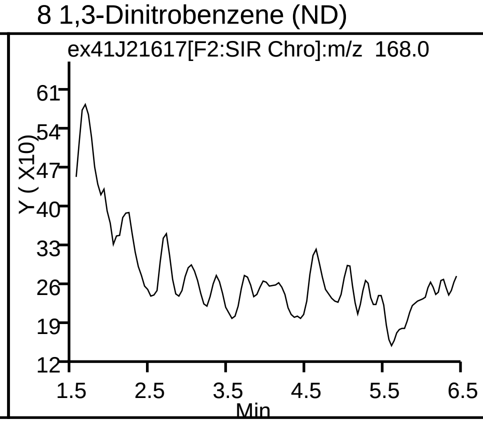
6 Tetryl (ND)



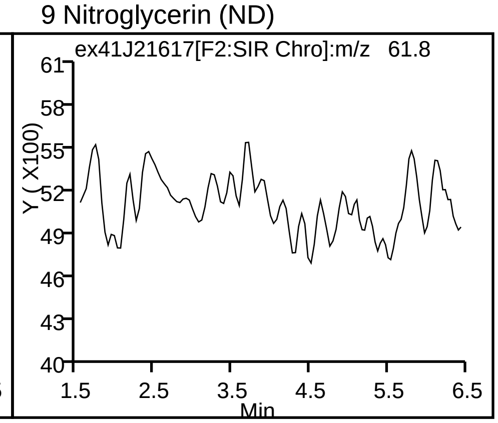
* 7 1,3-Dinitrobenzene-d4



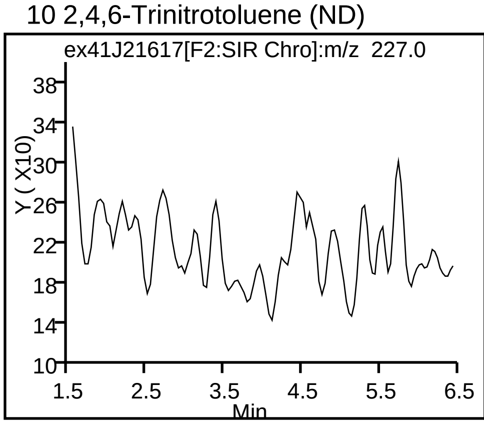
8 1,3-Dinitrobenzene (ND)



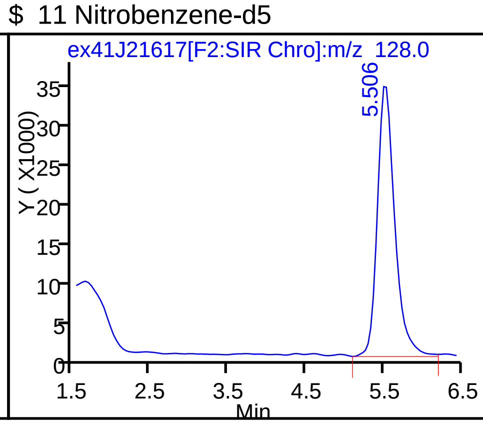
9 Nitroglycerin (ND)



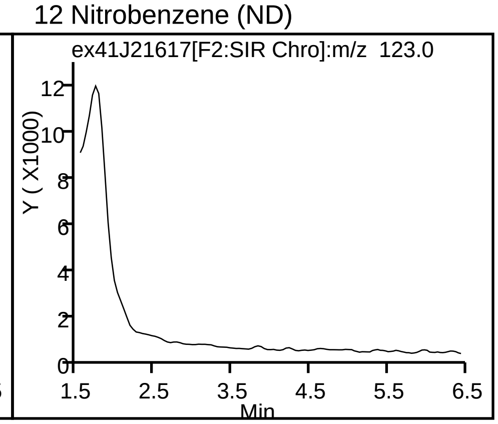
10 2,4,6-Trinitrotoluene (ND)



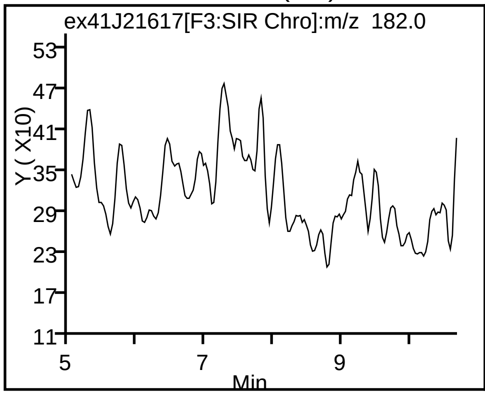
$ 11 Nitrobenzene-d5



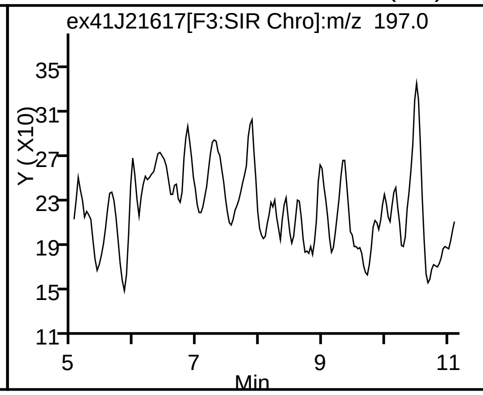
12 Nitrobenzene (ND)



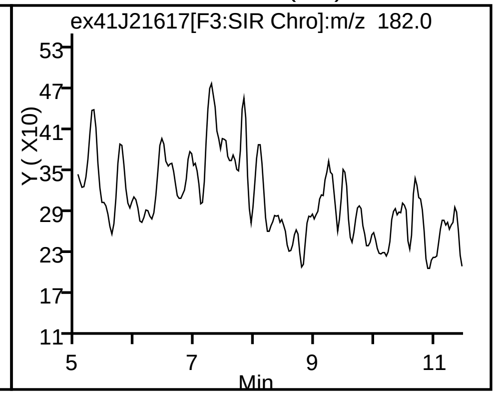
13 3,4-Dinitrotoluene (ND)



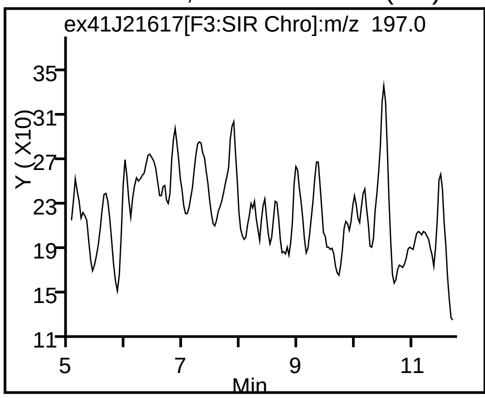
14 4-Amino-2,6-dinitrotoluene (ND)



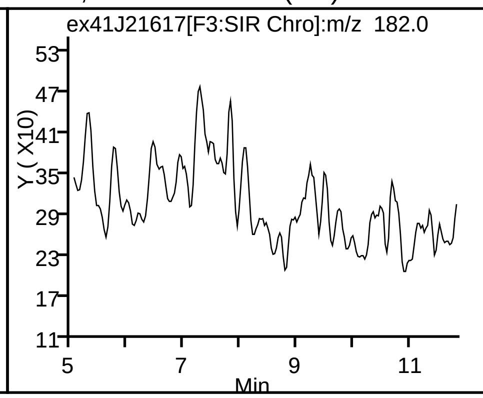
15 2,3-Dinitrotoluene (ND)



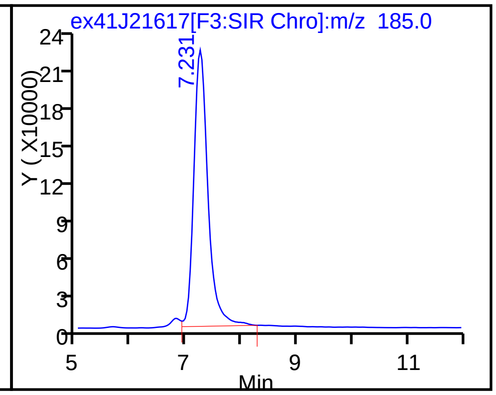
16 2-Amino-4,6-dinitrotoluene (ND)



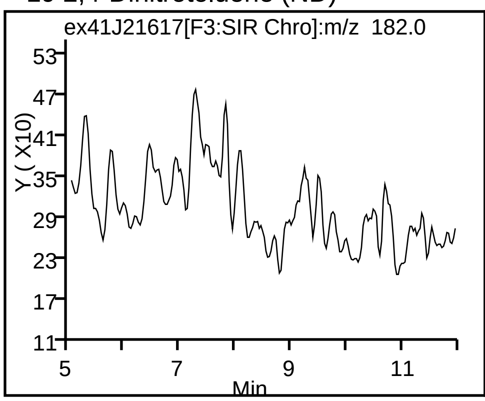
17 2,6-Dinitrotoluene (ND)



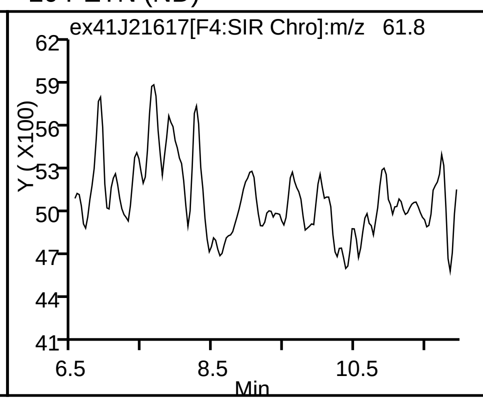
* 18 2,4-dinitrotoluene-d3



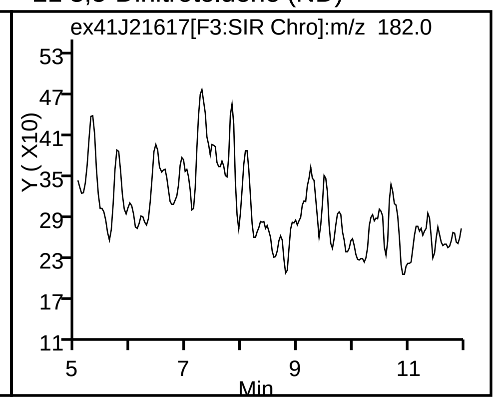
19 2,4-Dinitrotoluene (ND)



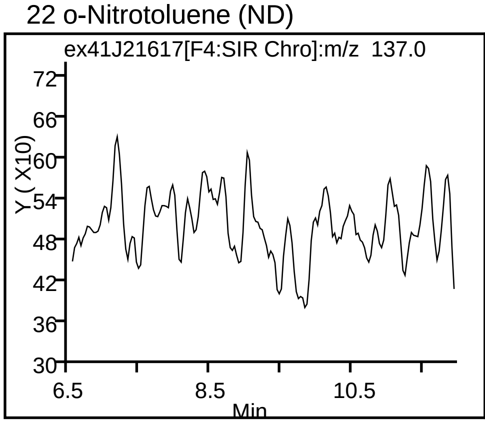
20 PETN (ND)



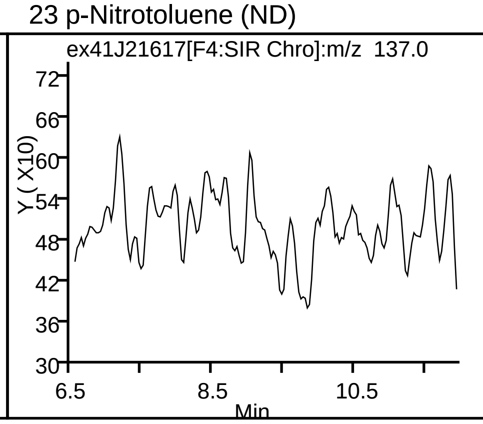
21 3,5-Dinitrotoluene (ND)



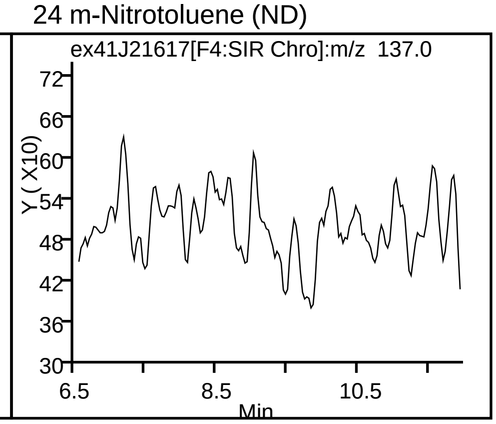
22 o-Nitrotoluene (ND)



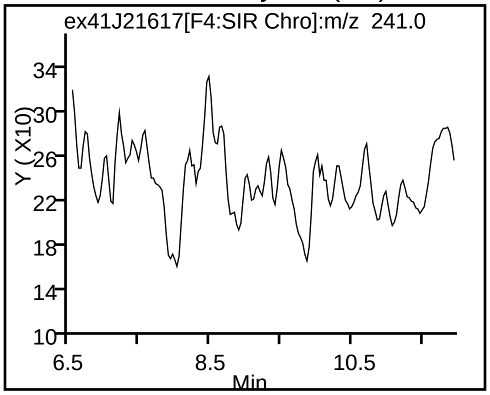
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP10 SB015 | Lab Sample ID: 280-21683-78

Matrix: Solid | Lab File ID: ex41J21618.d

Analysis Method: 8321B | Date Collected: 10/16/2011 11:24

Extraction Method: 8330B | Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.06(g) | Date Analyzed: 11/02/2011 00:28

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	84		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21618.d		
Lims ID:	280-21683-B-78-B	Client ID:	SB015
Inject. Date:	02-Nov-2011 00:28:22	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-78-B 280-0002689-142		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	79
Lims Batch ID:	94194	Lims Sample ID:	142
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:18	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		523517	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1892077	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1229398	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.540	0.000	1.109	506832	83.5			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.231	0.031		3638211	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

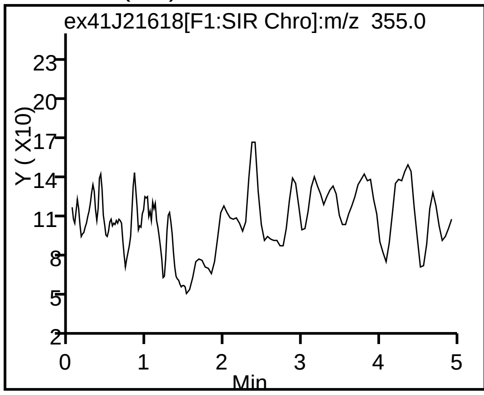
QC Flag Legend

Processing Flags
1 - Missing Peaks

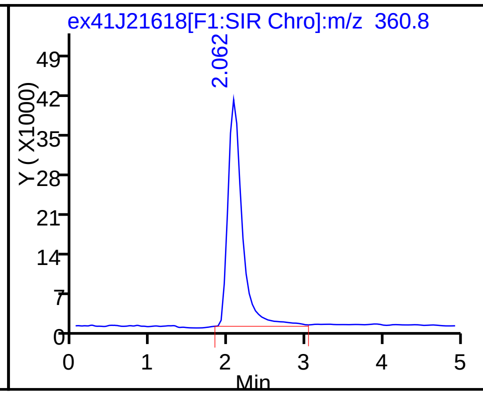
Report Date: 02-Nov-2011 06:54:21 | Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21618.d

Injection Date:	02-Nov-2011 00:28:22	Limit Group:	LC - 8321A Expl
Client ID:	SB015	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	142
Operator ID:		Injection Vol:	40.00 ul

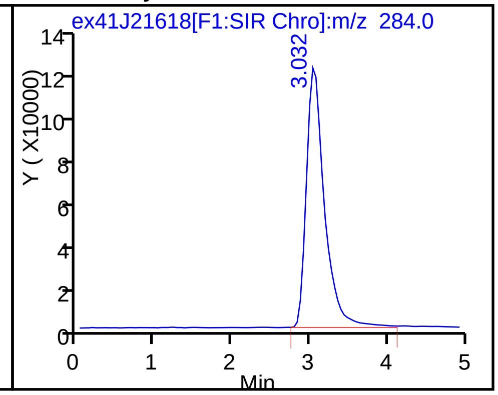
2 HMX (ND)



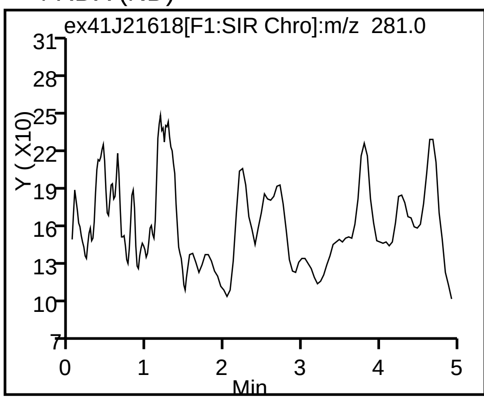
* 1 HMX-13C4



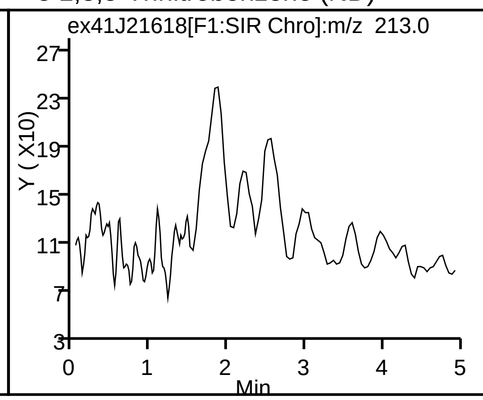
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



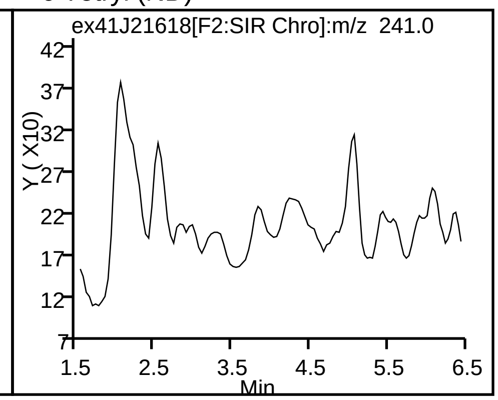
4 RDX (ND)



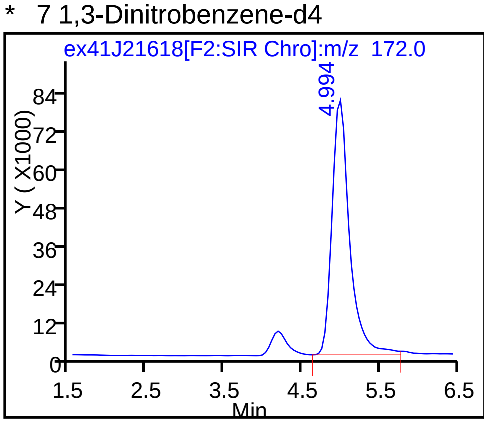
5 1,3,5-Trinitrobenzene (ND)



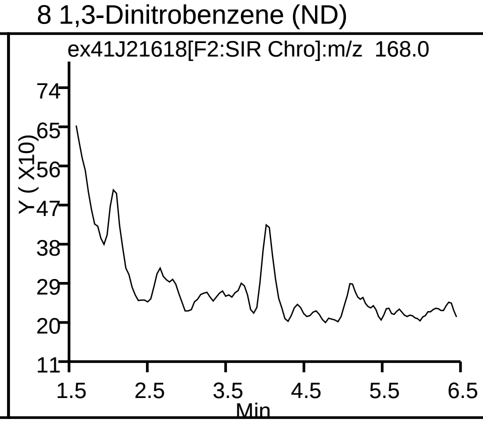
6 Tetryl (ND)



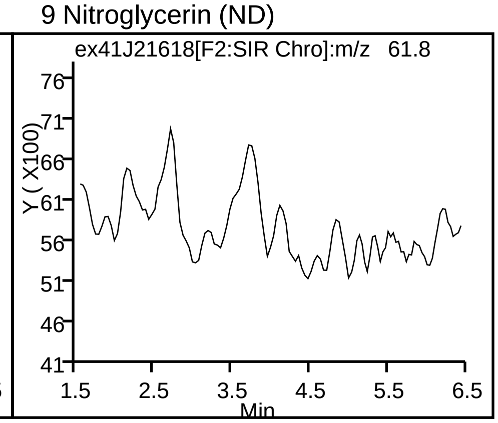
* 7 1,3-Dinitrobenzene-d4



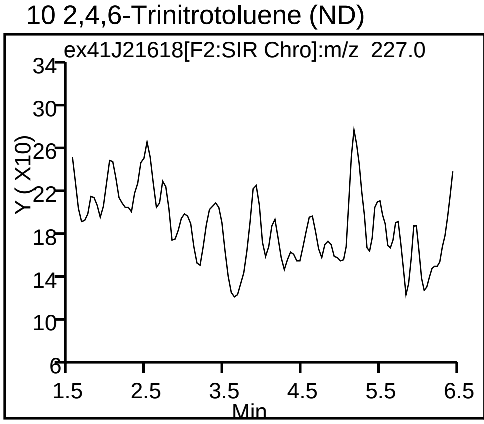
8 1,3-Dinitrobenzene (ND)



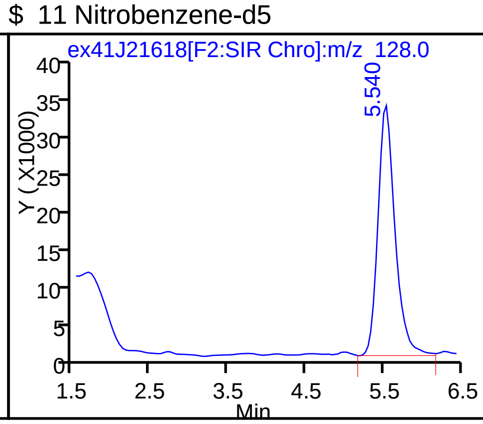
9 Nitroglycerin (ND)



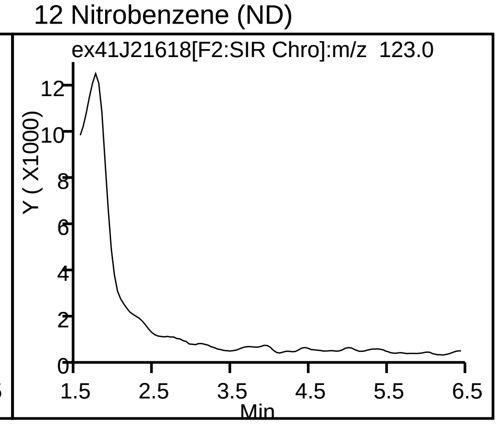
10 2,4,6-Trinitrotoluene (ND)



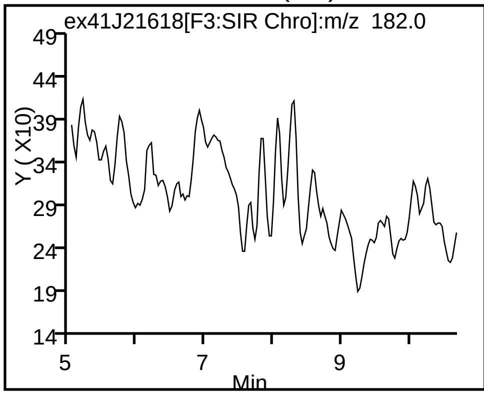
$ 11 Nitrobenzene-d5



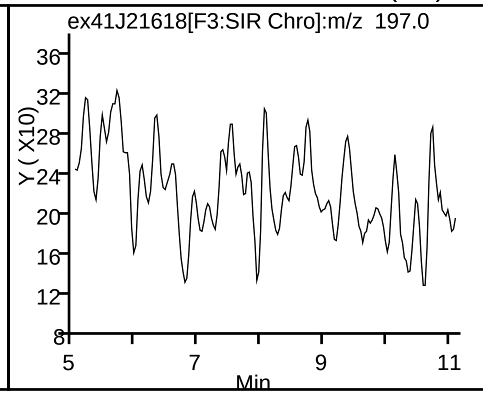
12 Nitrobenzene (ND)



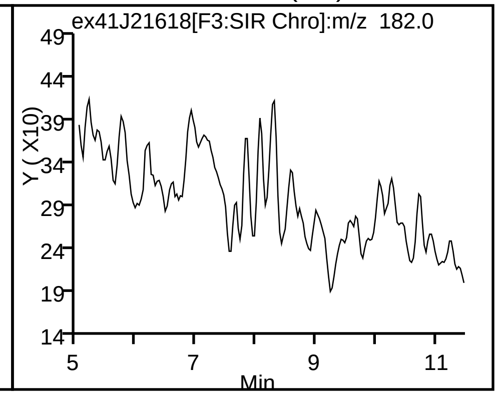
13 3,4-Dinitrotoluene (ND)



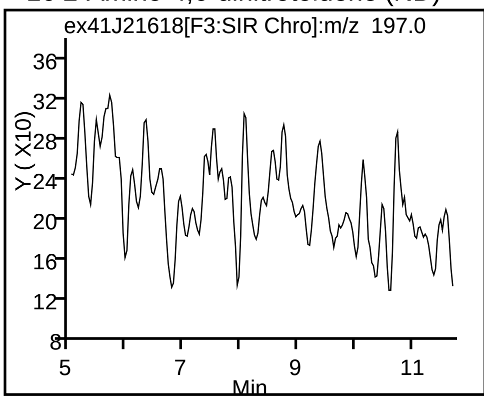
14 4-Amino-2,6-dinitrotoluene (ND)



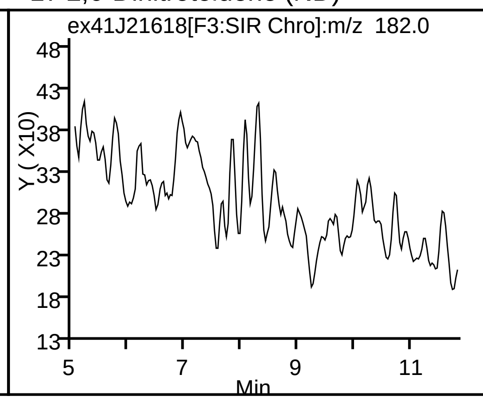
15 2,3-Dinitrotoluene (ND)



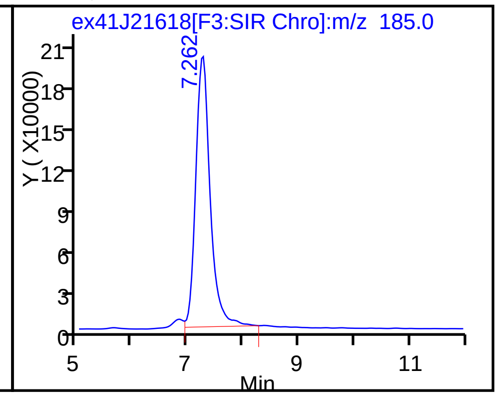
16 2-Amino-4,6-dinitrotoluene (ND)



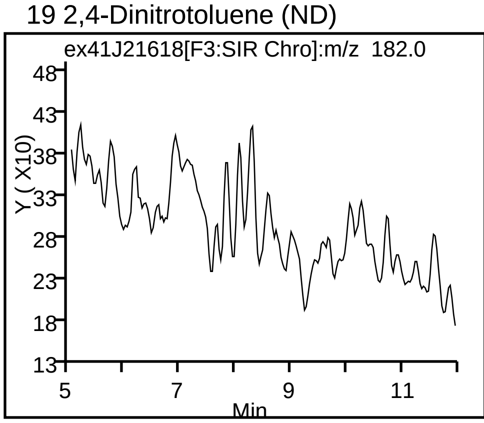
17 2,6-Dinitrotoluene (ND)



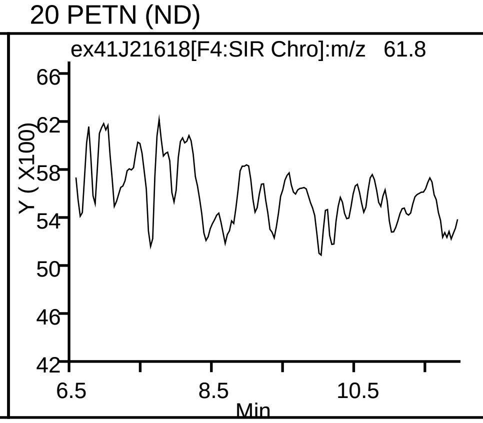
* 18 2,4-dinitrotoluene-d3



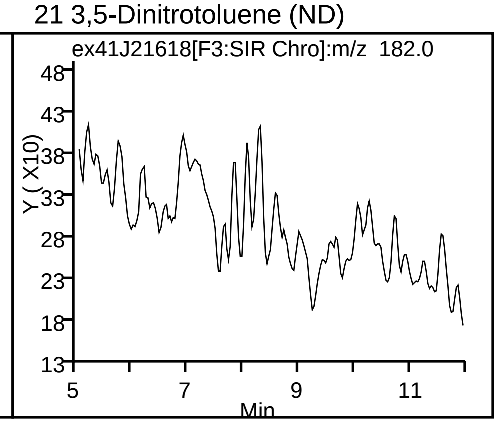
19 2,4-Dinitrotoluene (ND)



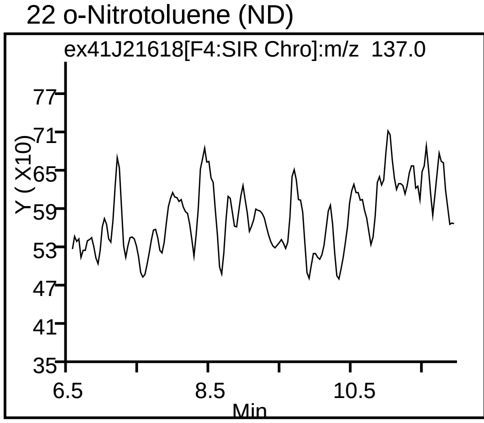
20 PETN (ND)



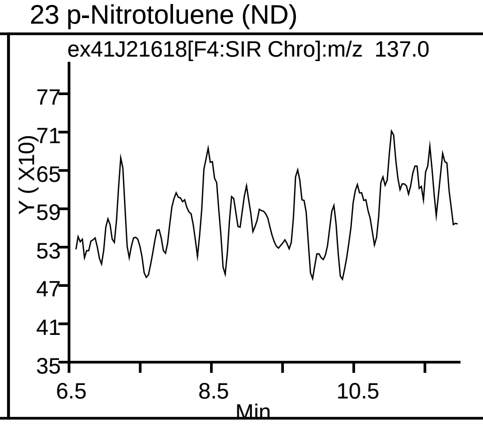
21 3,5-Dinitrotoluene (ND)



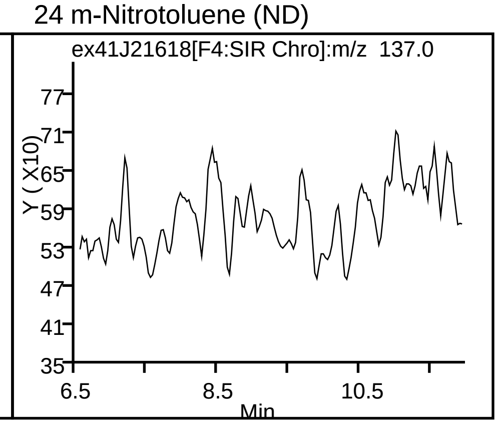
22 o-Nitrotoluene (ND)



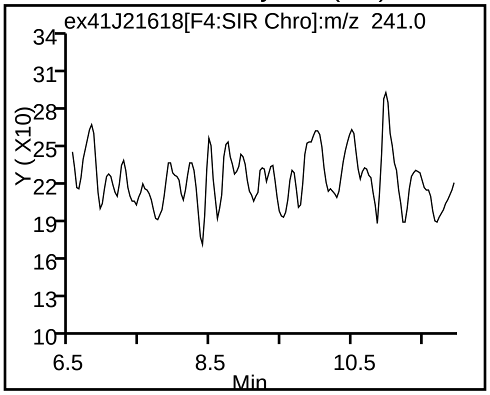
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP09 SB012   Lab Sample ID: 280-21683-79

Matrix: Solid   Lab File ID: ex41J21619.d

Analysis Method: 8321B   Date Collected: 10/16/2011 11:40

Extraction Method: 8330B   Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.18(g)   Date Analyzed: 11/02/2011 00:41

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21619.d		
Lims ID:	280-21683-A-79-C	Client ID:	SB012
Inject. Date:	02-Nov-2011 00:41:56	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-79-C 280-0002689-143		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	80
Lims Batch ID:	94194	Lims Sample ID:	143
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:18	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:50:19

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		571934	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1955394	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1257265	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.540	-0.034	1.102	523681	84.3			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3297290	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

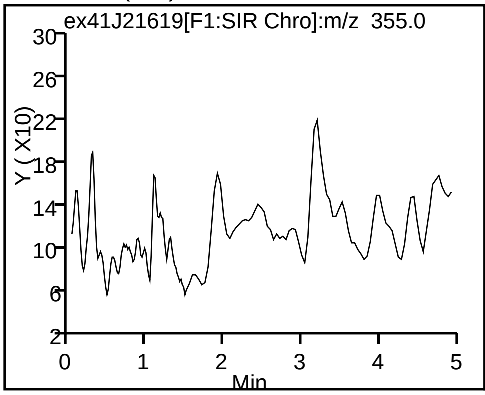
QC Flag Legend

Processing Flags
1 - Missing Peaks

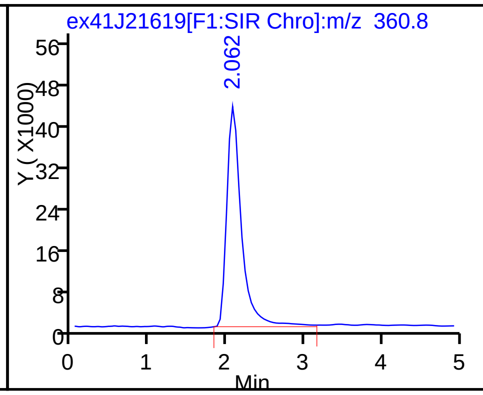
Report Date: 02-Nov-2011 06:54:22 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21619.d

Injection Date:	02-Nov-2011 00:41:56	Limit Group:	LC - 8321A Expl
Client ID:	SB012	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	143
Operator ID:		Injection Vol:	40.00 ul

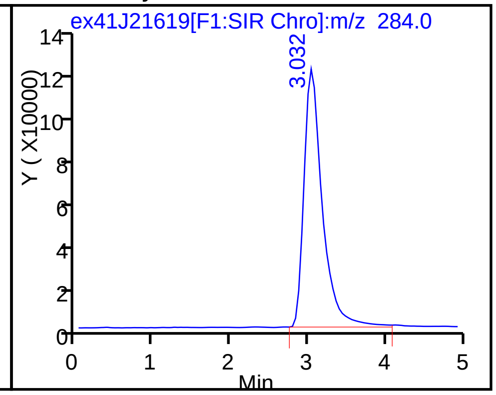
2 HMX (ND)



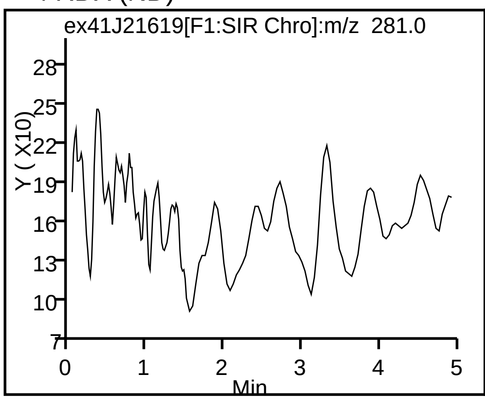
* 1 HMX-13C4



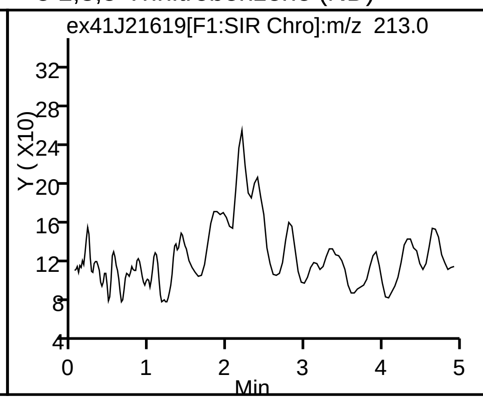
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



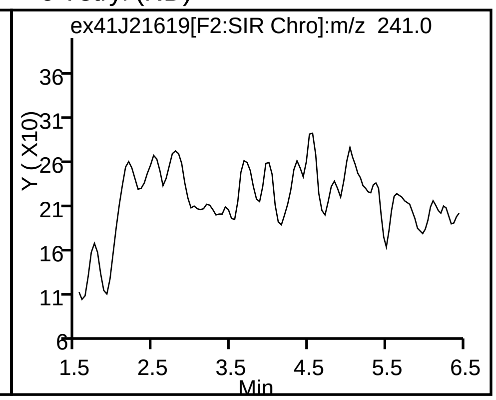
4 RDX (ND)



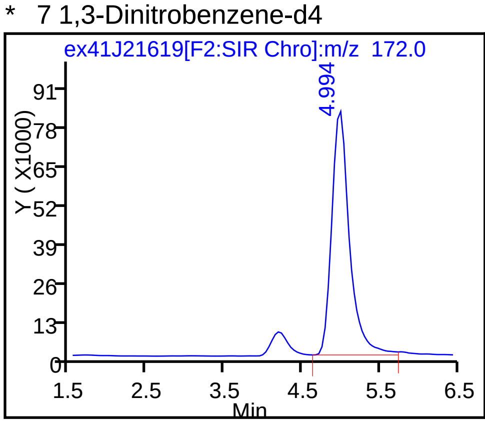
5 1,3,5-Trinitrobenzene (ND)



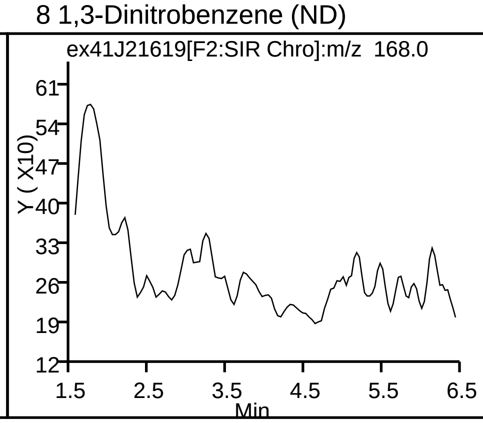
6 Tetryl (ND)



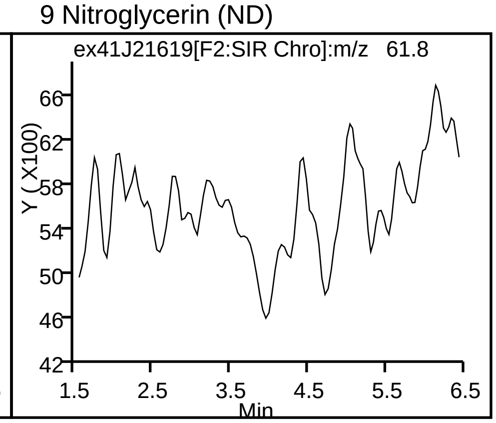
* 7 1,3-Dinitrobenzene-d4



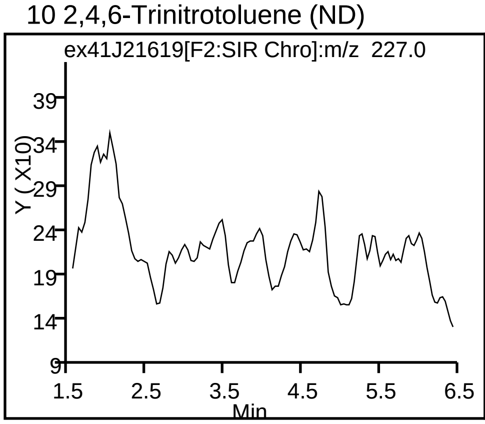
8 1,3-Dinitrobenzene (ND)



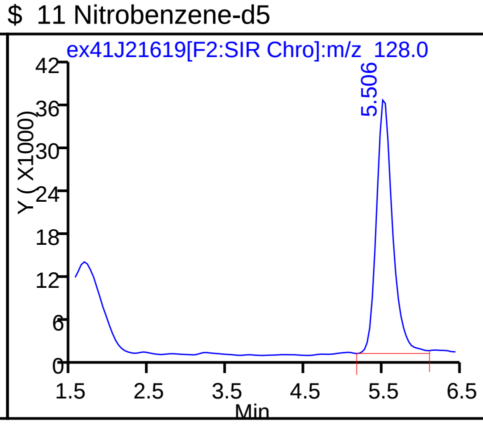
9 Nitroglycerin (ND)



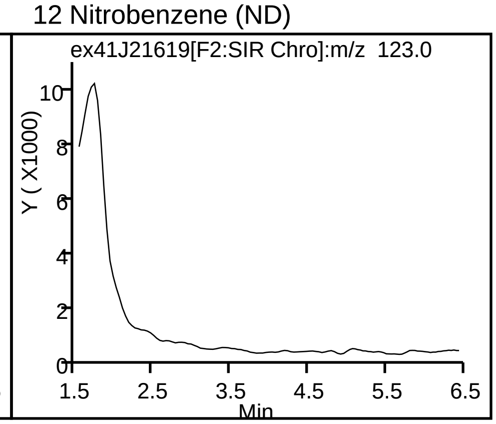
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

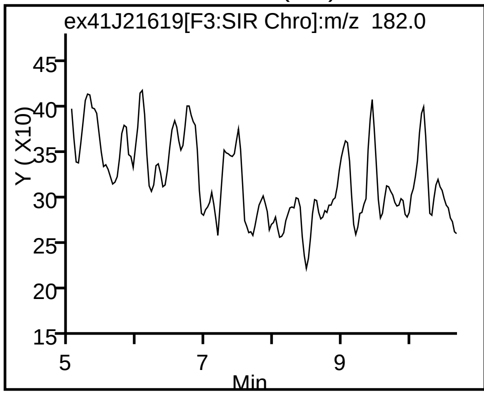


12 Nitrobenzene (ND)

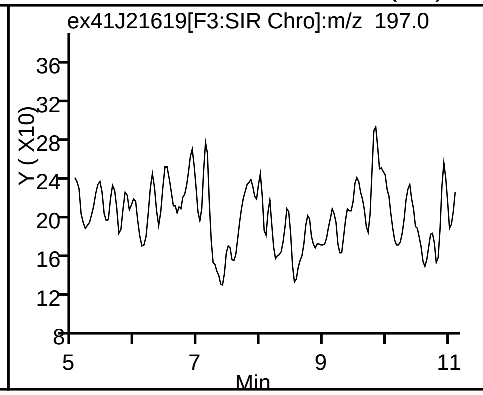


Report Date: 02-Nov-2011 06:54:22 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21619.d

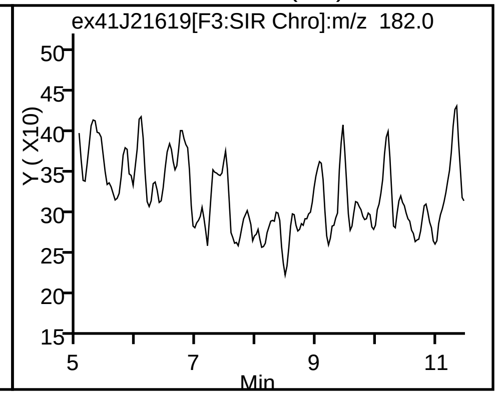
13 3,4-Dinitrotoluene (ND)



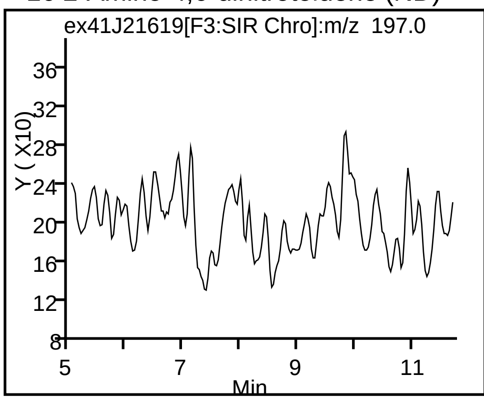
14 4-Amino-2,6-dinitrotoluene (ND)



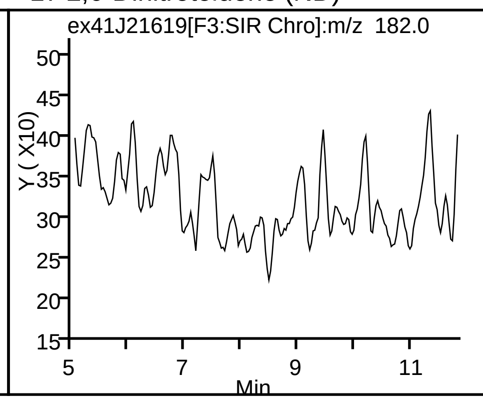
15 2,3-Dinitrotoluene (ND)



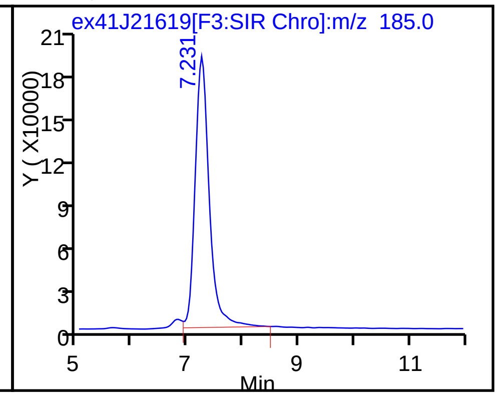
16 2-Amino-4,6-dinitrotoluene (ND)



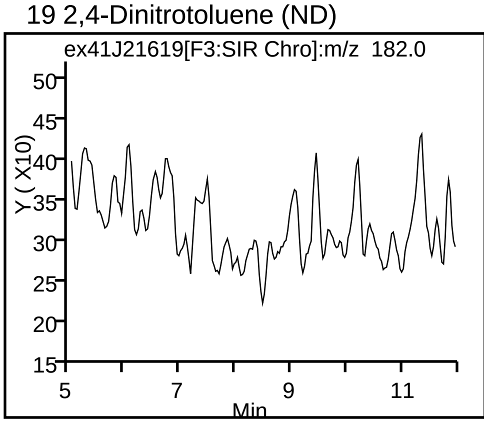
17 2,6-Dinitrotoluene (ND)



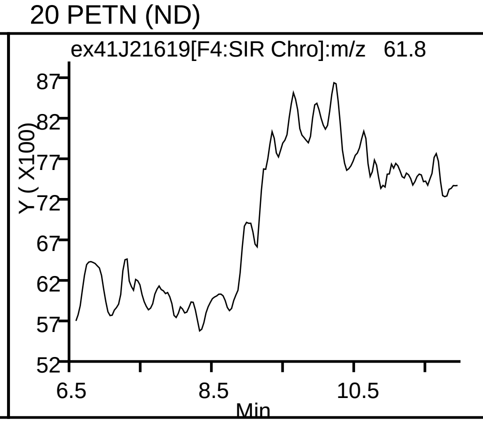
* 18 2,4-dinitrotoluene-d3



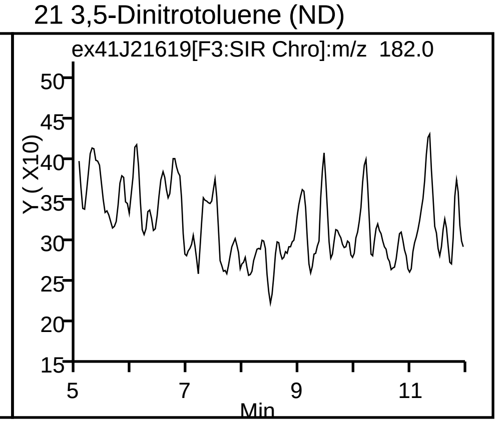
19 2,4-Dinitrotoluene (ND)



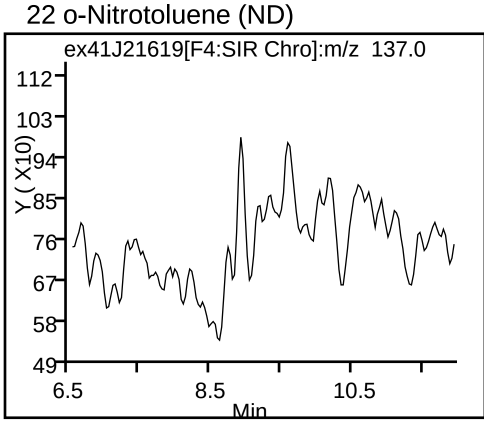
20 PETN (ND)



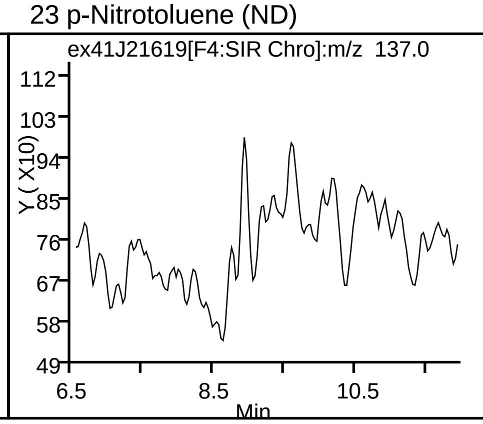
21 3,5-Dinitrotoluene (ND)



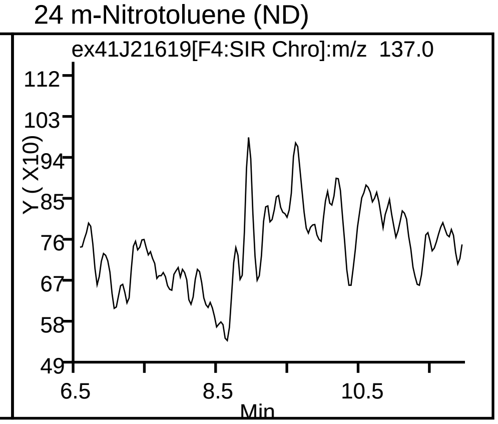
22 o-Nitrotoluene (ND)



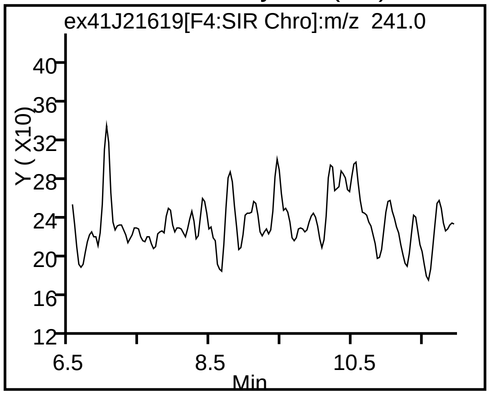
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP09 SB013   Lab Sample ID: 280-21683-80

Matrix: Solid   Lab File ID: ex41J21620.d

Analysis Method: 8321B   Date Collected: 10/16/2011 11:42

Extraction Method: 8330B   Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.79(g)   Date Analyzed: 11/02/2011 00:55

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.093	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0097
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21620.d		
Lims ID:	280-21683-B-80-B	Client ID:	SB013
Inject. Date:	02-Nov-2011 00:55:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-80-B 280-0002689-144		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	81
Lims Batch ID:	94194	Lims Sample ID:	144
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:18	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		641128	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2123985	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1209943	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.540	-0.034	1.111	515124	86.2			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3570081	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0		8.284							
23 p-Nitrotoluene										
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

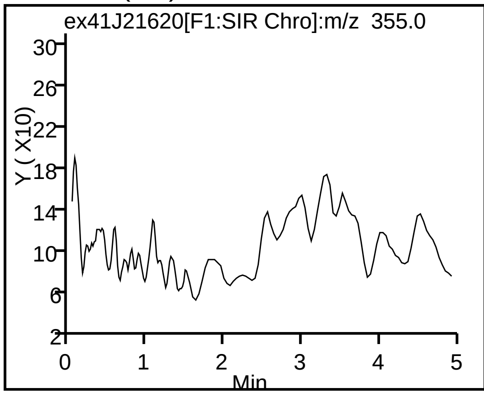
QC Flag Legend

Processing Flags
1 - Missing Peaks

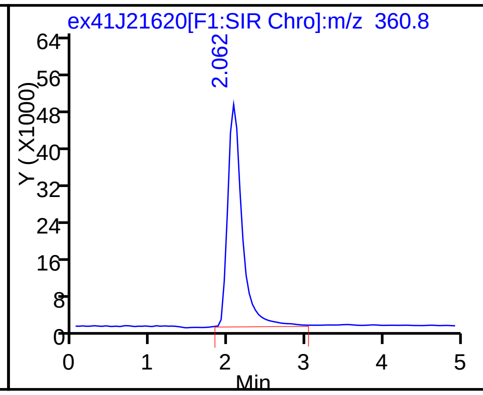
Report Date: 02-Nov-2011 06:54:23 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21620.d

Injection Date:	02-Nov-2011 00:55:30	Limit Group:	LC - 8321A Expl
Client ID:	SB013	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	144
Operator ID:		Injection Vol:	40.00 ul

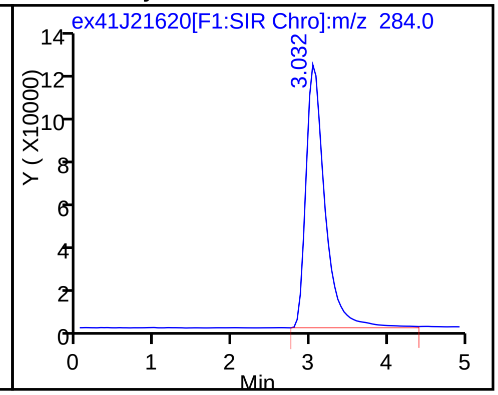
2 HMX (ND)



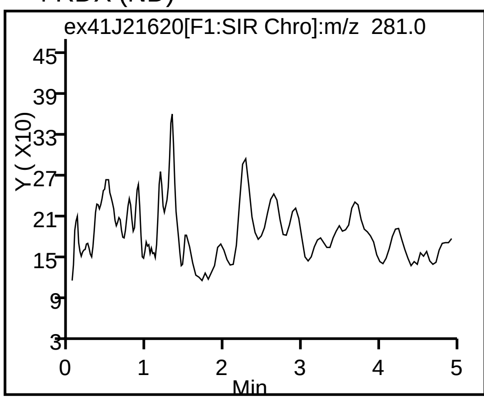
* 1 HMX-13C4



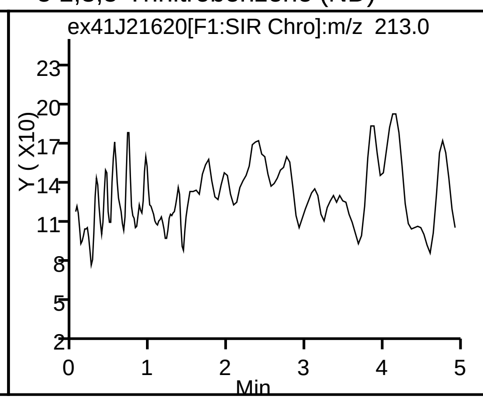
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



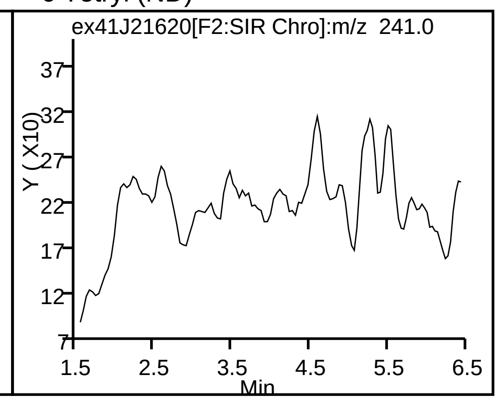
4 RDX (ND)



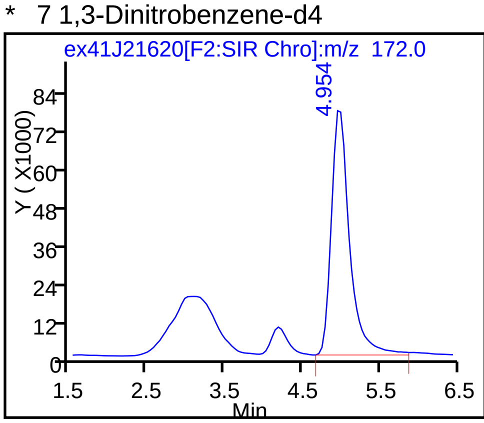
5 1,3,5-Trinitrobenzene (ND)



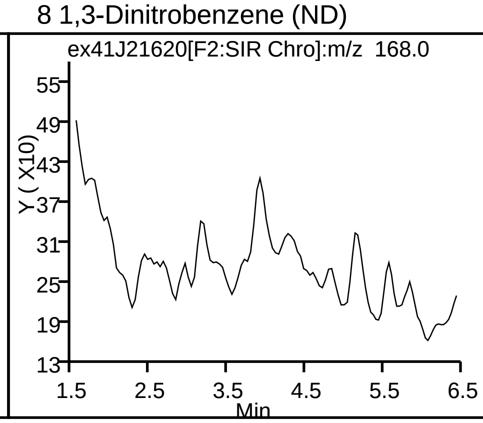
6 Tetryl (ND)



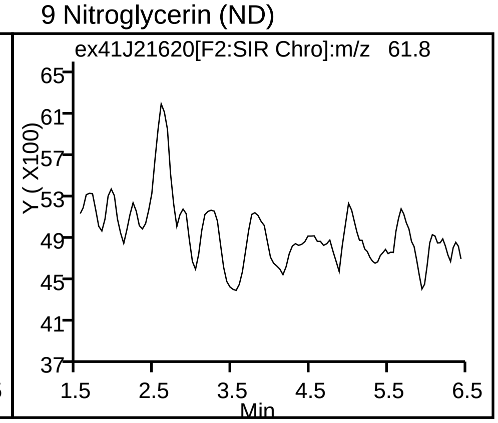
* 7 1,3-Dinitrobenzene-d4



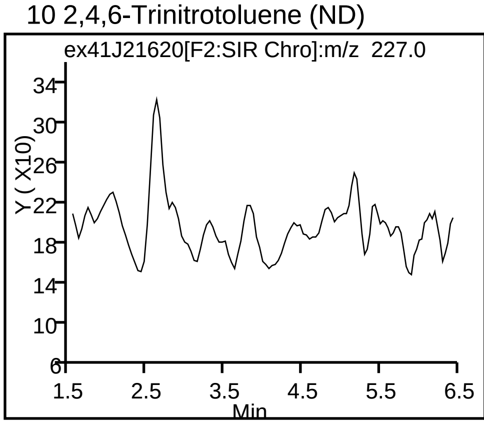
8 1,3-Dinitrobenzene (ND)



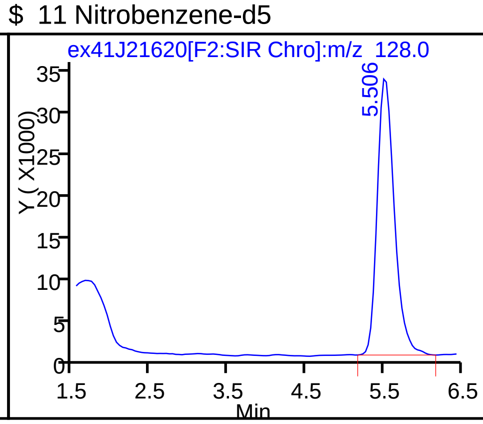
9 Nitroglycerin (ND)



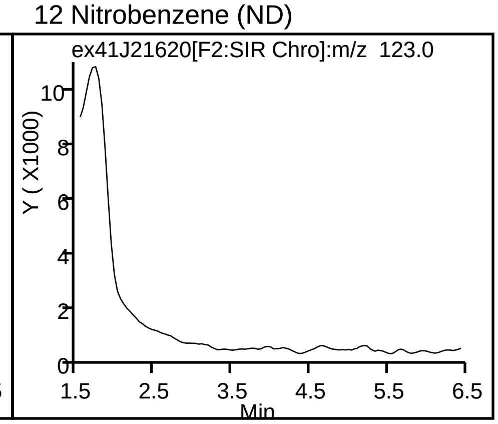
10 2,4,6-Trinitrotoluene (ND)



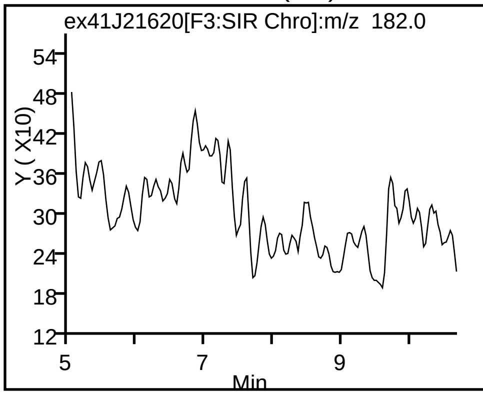
$ 11 Nitrobenzene-d5



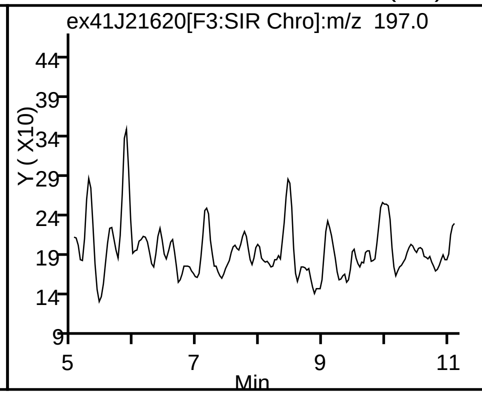
12 Nitrobenzene (ND)



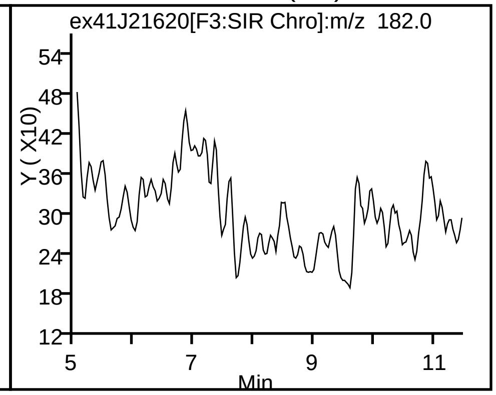
13 3,4-Dinitrotoluene (ND)



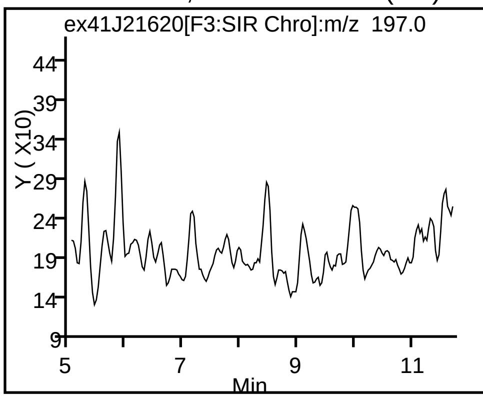
14 4-Amino-2,6-dinitrotoluene (ND)



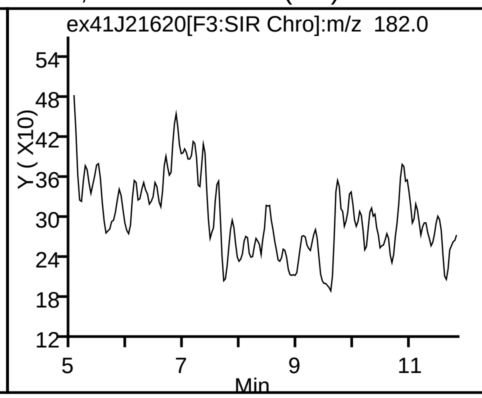
15 2,3-Dinitrotoluene (ND)



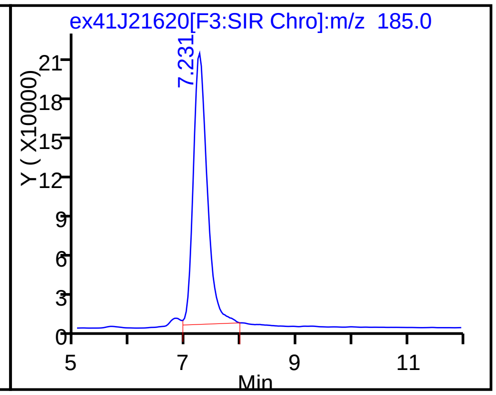
16 2-Amino-4,6-dinitrotoluene (ND)



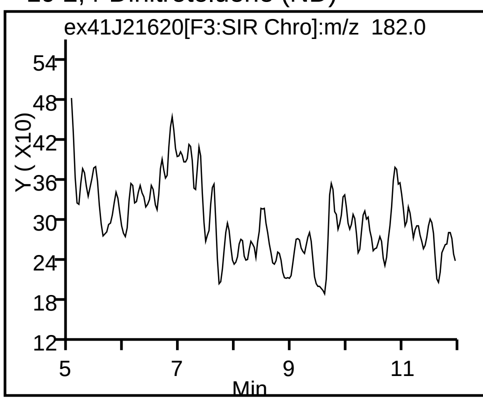
17 2,6-Dinitrotoluene (ND)



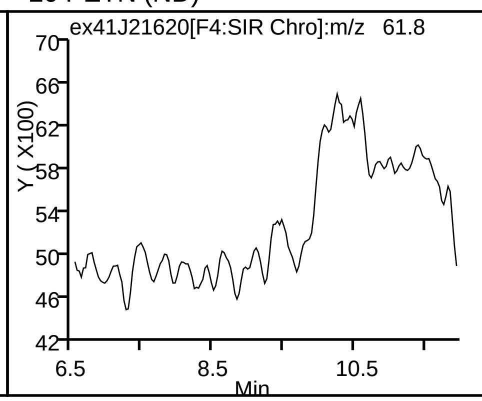
* 18 2,4-dinitrotoluene-d3



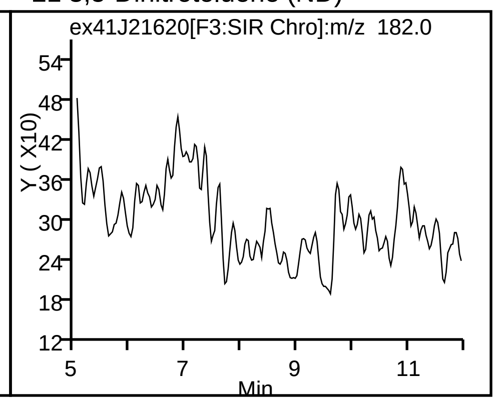
19 2,4-Dinitrotoluene (ND)



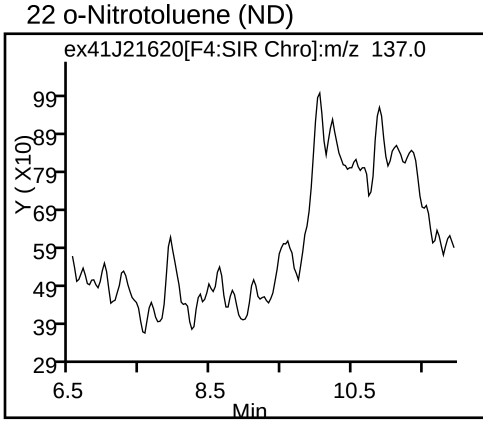
20 PETN (ND)



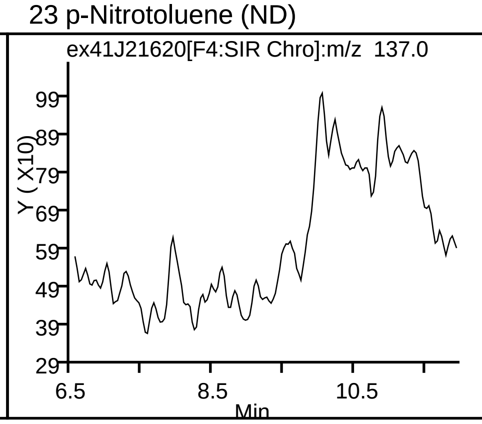
21 3,5-Dinitrotoluene (ND)



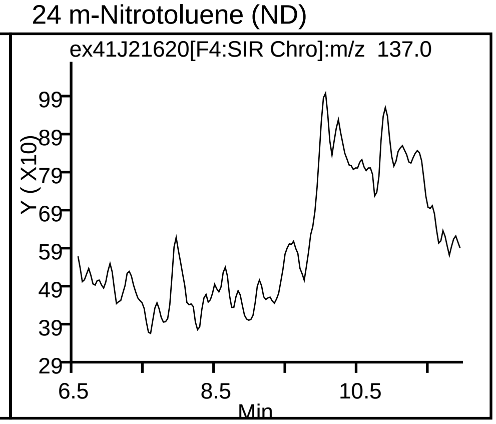
22 o-Nitrotoluene (ND)



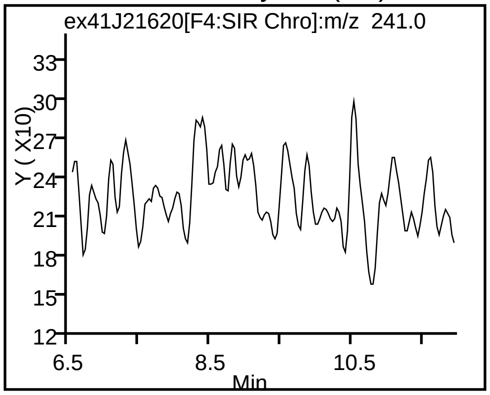
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP08 SB009   Lab Sample ID: 280-21683-81

Matrix: Solid   Lab File ID: ex41J21624.d

Analysis Method: 8321B   Date Collected: 10/16/2011 11:55

Extraction Method: 8330B   Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.48(g)   Date Analyzed: 11/02/2011 01:50

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21624.d		
Lims ID:	280-21683-A-81-E	Client ID:	SB009
Inject. Date:	02-Nov-2011 01:50:02	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-81-E 280-0002689-148		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	84
Lims Batch ID:	94194	Lims Sample ID:	148
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:24	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		569902	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2020650	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1423125	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	541881	77.1			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							
15 2,3-Dinitrotoluene										1
3	182.0		6.533							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3999028	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

QC Flag Legend

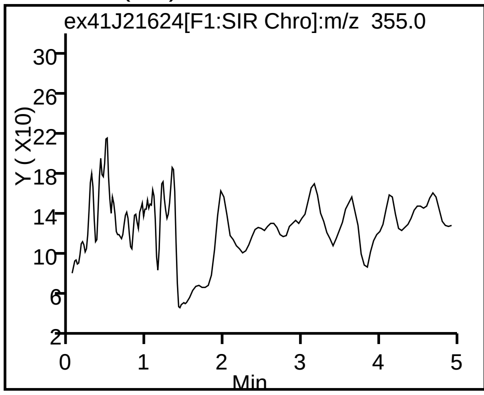
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:54:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06

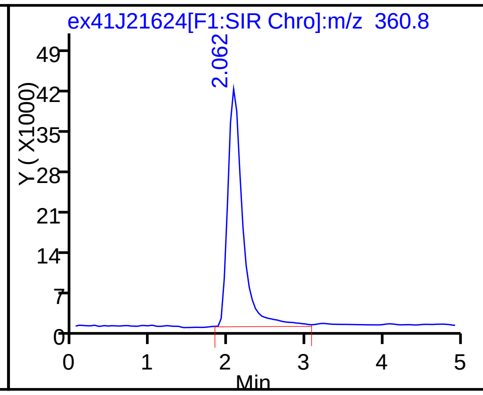
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21624.d

Injection Date:	02-Nov-2011 01:50:02	Limit Group:	LC - 8321A Expl
Client ID:	SB009	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	148
Operator ID:		Injection Vol:	40.00 ul

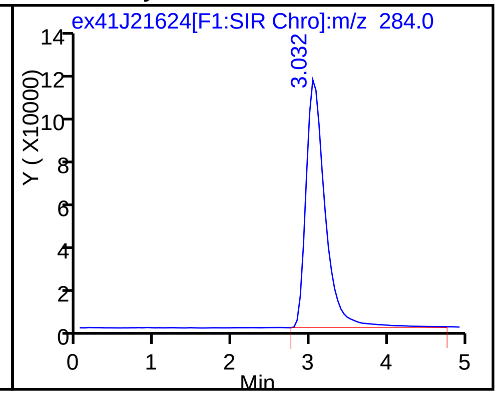
2 HMX (ND)



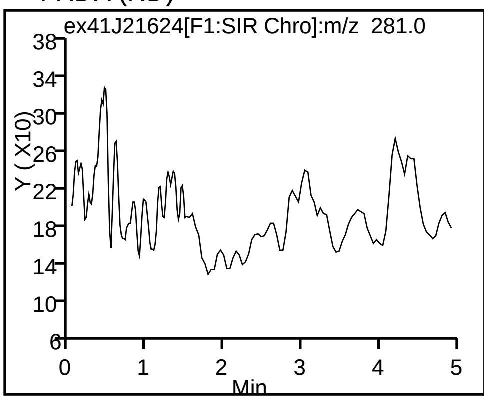
* 1 HMX-13C4



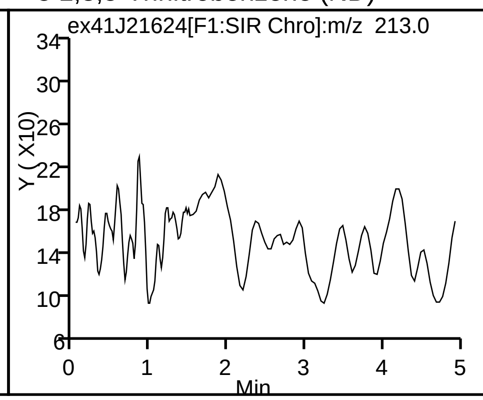
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



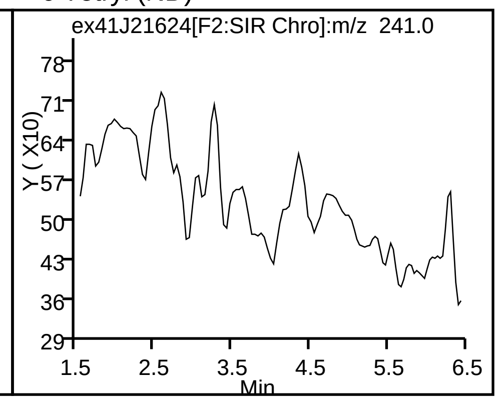
4 RDX (ND)



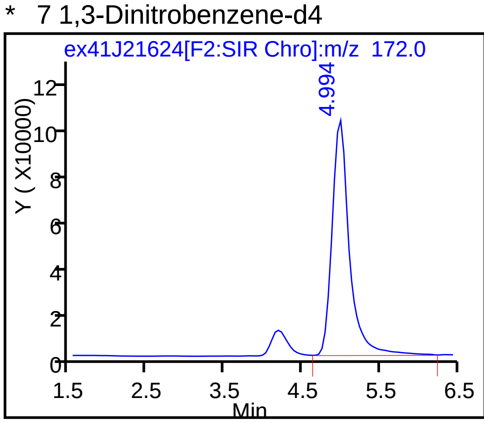
5 1,3,5-Trinitrobenzene (ND)



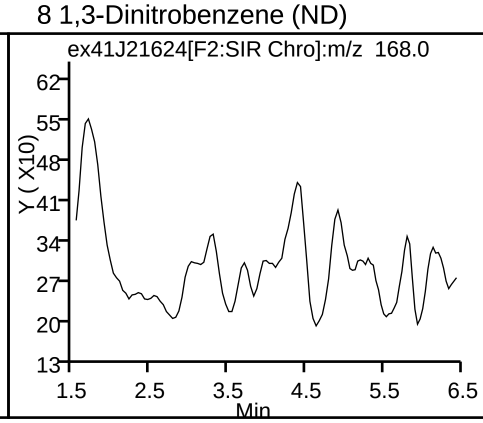
6 Tetryl (ND)



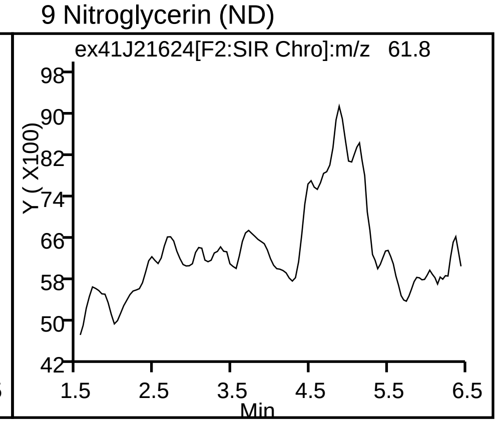
* 7 1,3-Dinitrobenzene-d4



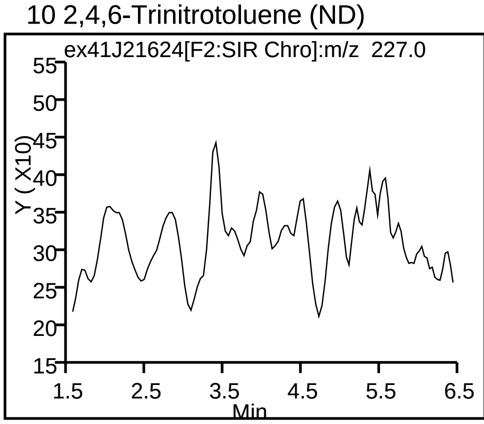
8 1,3-Dinitrobenzene (ND)



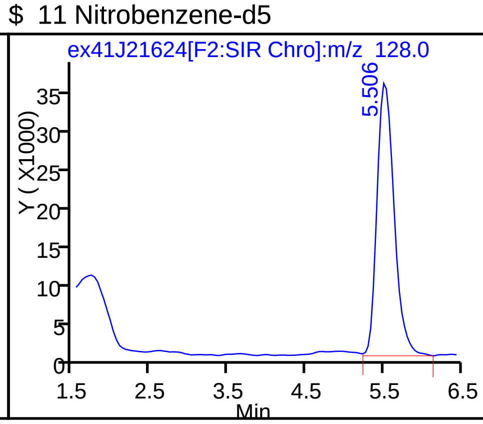
9 Nitroglycerin (ND)



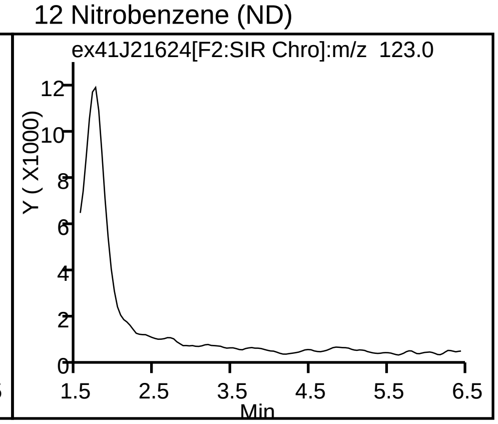
10 2,4,6-Trinitrotoluene (ND)



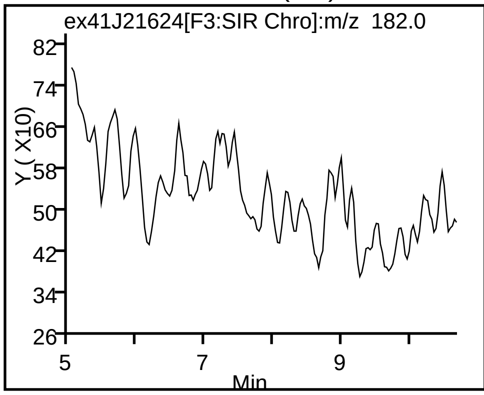
$ 11 Nitrobenzene-d5



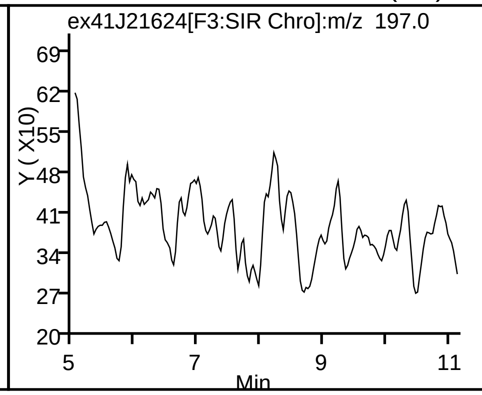
12 Nitrobenzene (ND)



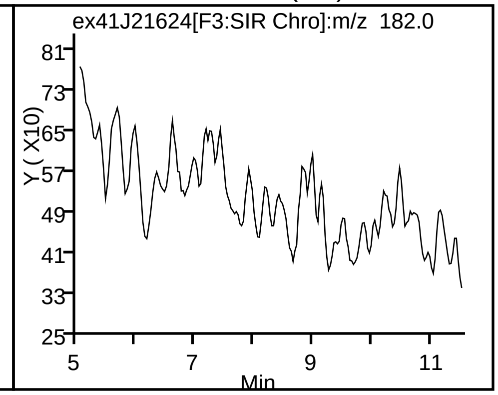
13 3,4-Dinitrotoluene (ND)



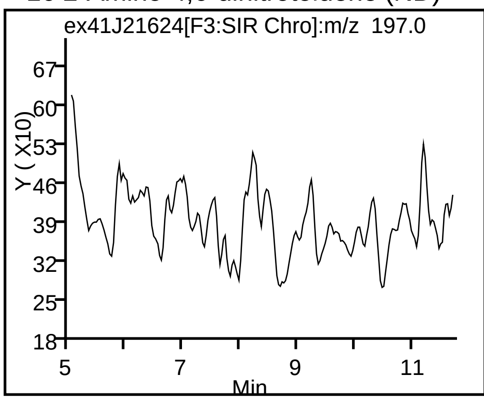
14 4-Amino-2,6-dinitrotoluene (ND)



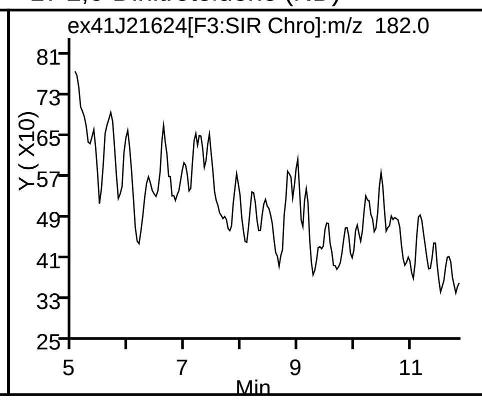
15 2,3-Dinitrotoluene (ND)



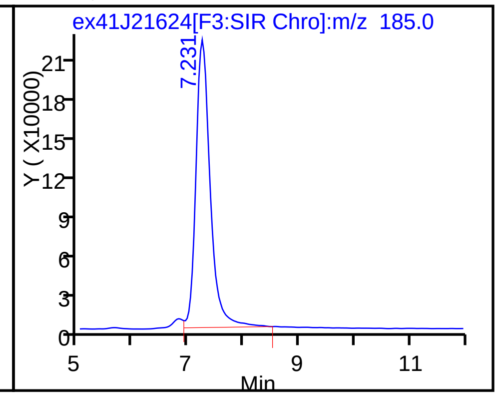
16 2-Amino-4,6-dinitrotoluene (ND)



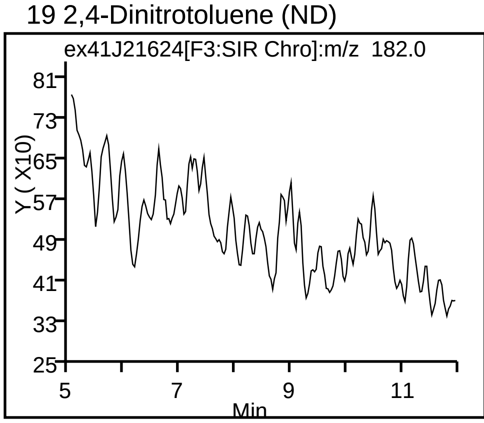
17 2,6-Dinitrotoluene (ND)



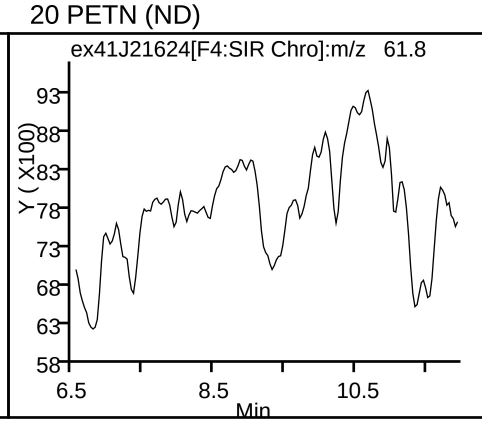
* 18 2,4-dinitrotoluene-d3



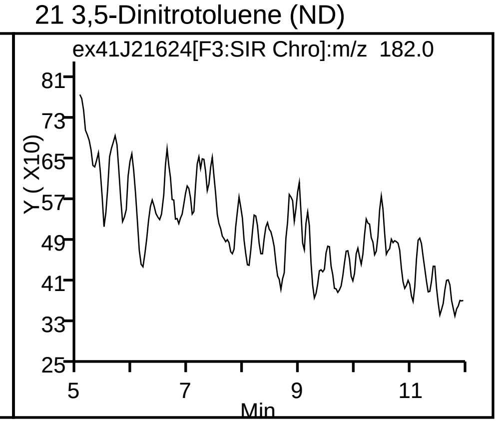
19 2,4-Dinitrotoluene (ND)



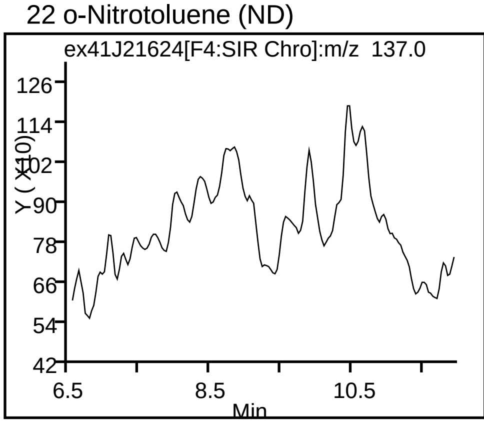
20 PETN (ND)



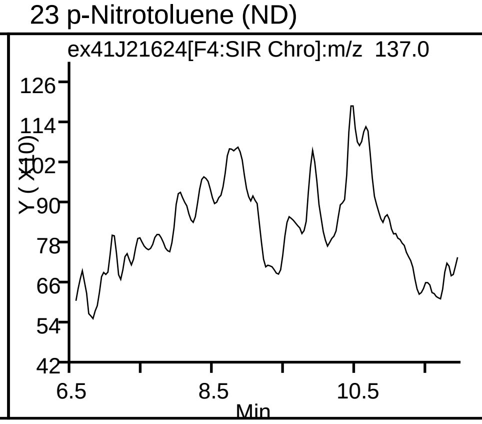
21 3,5-Dinitrotoluene (ND)



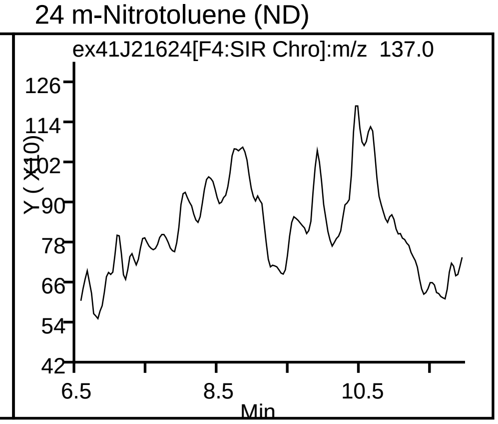
22 o-Nitrotoluene (ND)



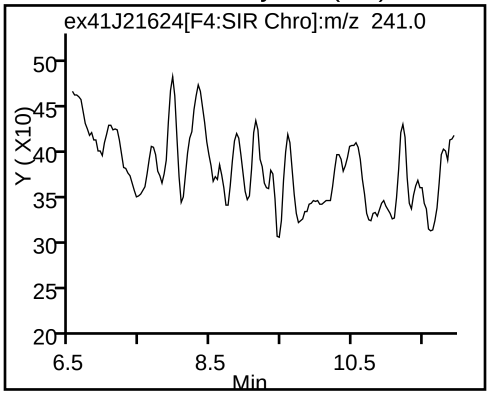
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP08 SB010 | Lab Sample ID: 280-21683-82

Matrix: Solid | Lab File ID: ex41J21625.d

Analysis Method: 8321B | Date Collected: 10/16/2011 11:59

Extraction Method: 8330B | Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.40(g) | Date Analyzed: 11/02/2011 02:03

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0050
121-82-4	RDX	0.012	U	0.096	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21625.d		
Lims ID:	280-21683-A-82-C	Client ID:	SB010
Inject. Date:	02-Nov-2011 02:03:52	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-82-C 280-0002689-149		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	85
Lims Batch ID:	94194	Lims Sample ID:	149
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:24	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:51:16

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		581729	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1779219	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1324155	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.118	501285	76.6			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.533							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3739740	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

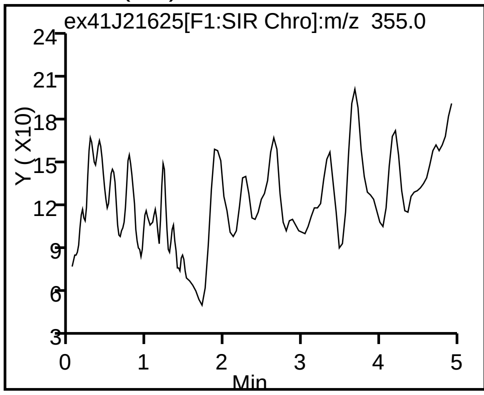
QC Flag Legend

Processing Flags
1 - Missing Peaks

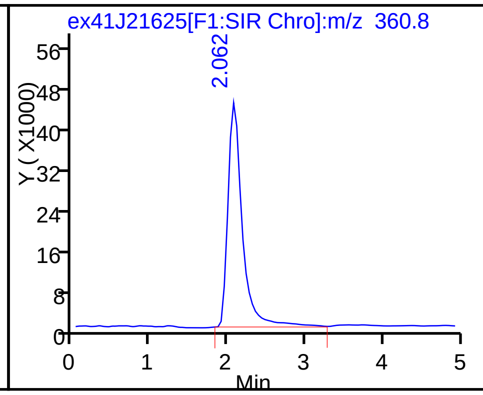
Report Date: 02-Nov-2011 06:54:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21625.d

Injection Date:	02-Nov-2011 02:03:52	Limit Group:	LC - 8321A Expl
Client ID:	SB010	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	149
Operator ID:		Injection Vol:	40.00 ul

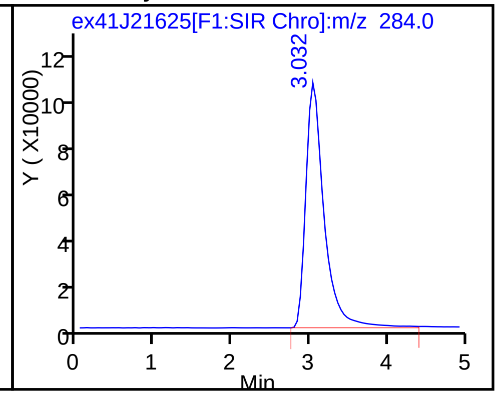
2 HMX (ND)



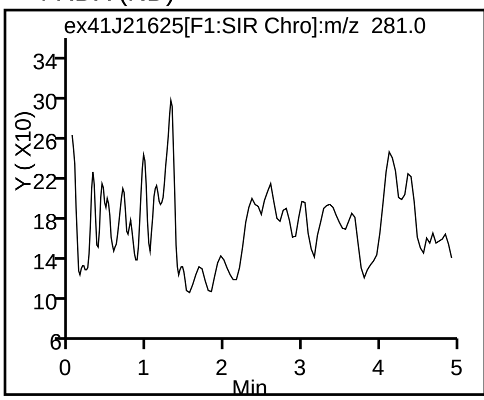
* 1 HMX-13C4



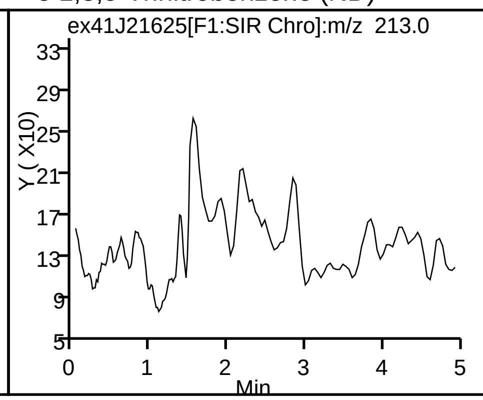
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



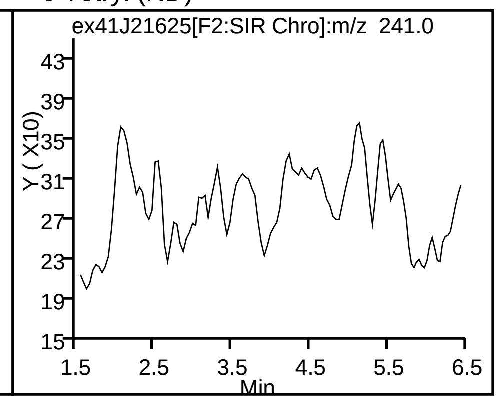
4 RDX (ND)



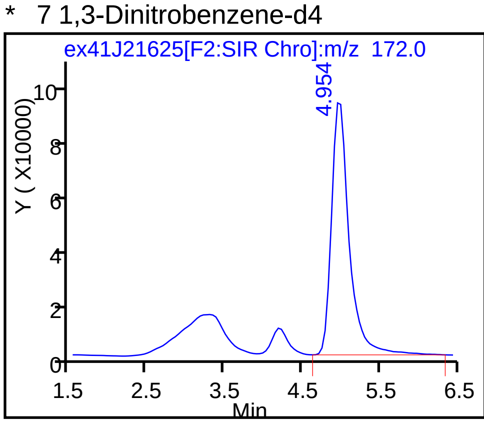
5 1,3,5-Trinitrobenzene (ND)



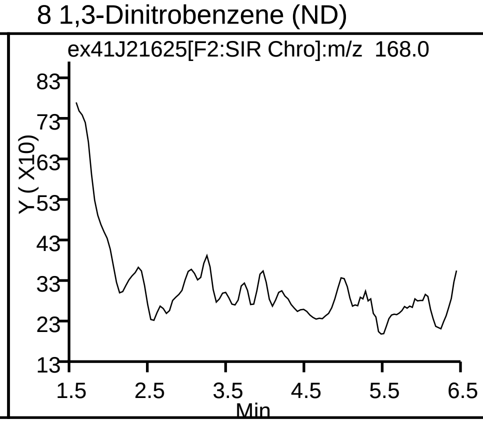
6 Tetryl (ND)



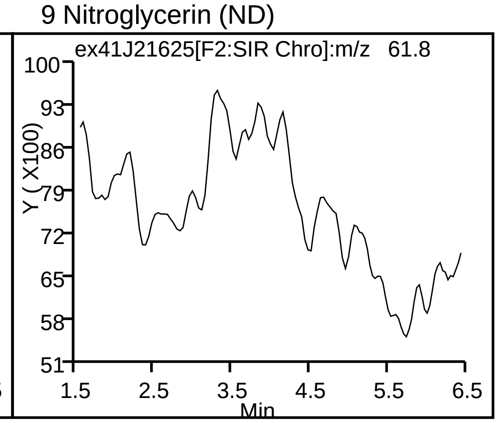
* 7 1,3-Dinitrobenzene-d4



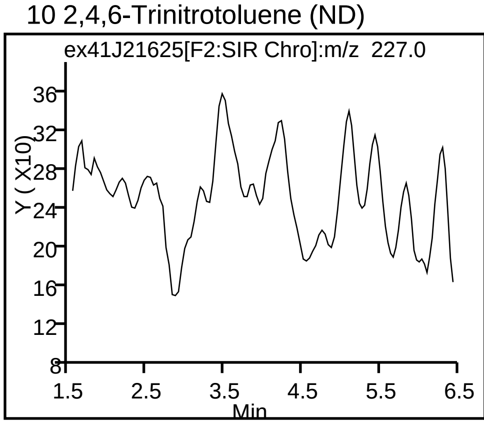
8 1,3-Dinitrobenzene (ND)



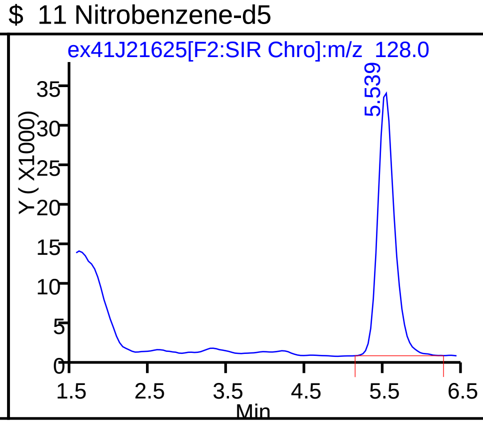
9 Nitroglycerin (ND)



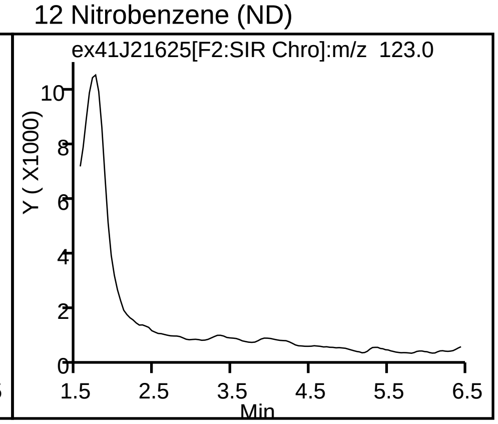
10 2,4,6-Trinitrotoluene (ND)



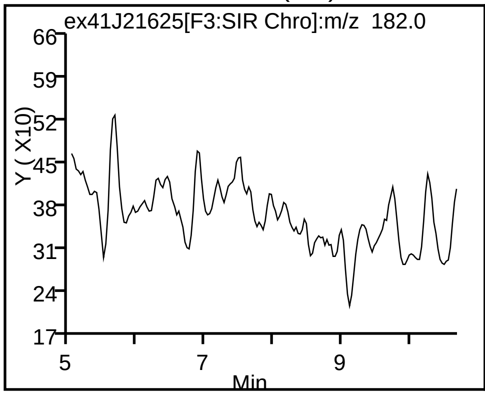
$ 11 Nitrobenzene-d5



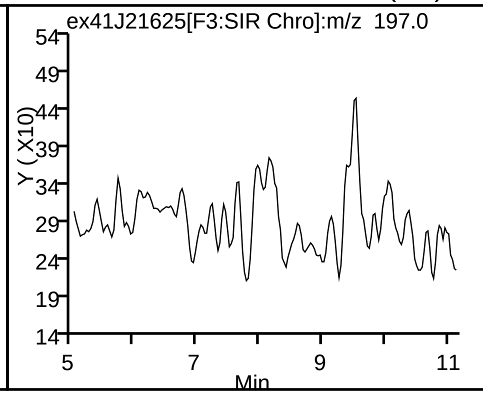
12 Nitrobenzene (ND)



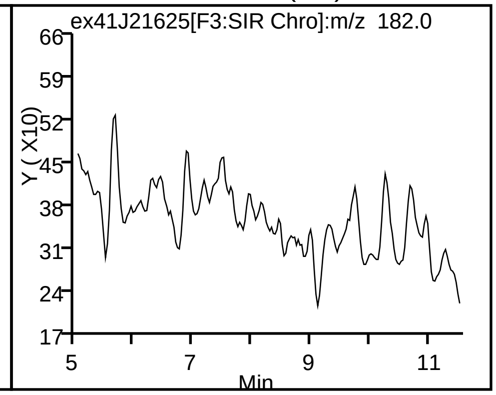
13 3,4-Dinitrotoluene (ND)



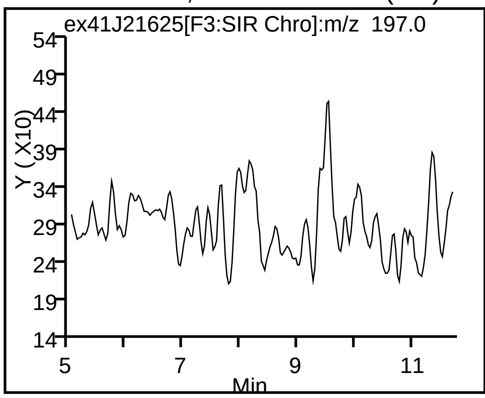
14 4-Amino-2,6-dinitrotoluene (ND)



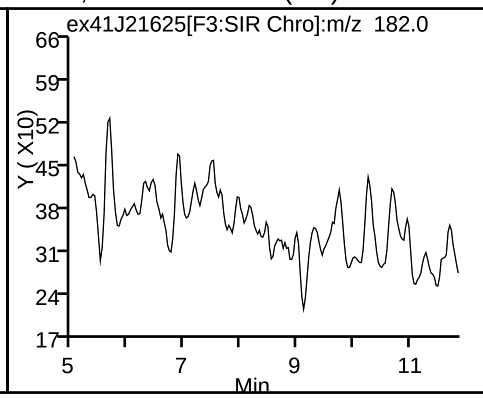
15 2,3-Dinitrotoluene (ND)



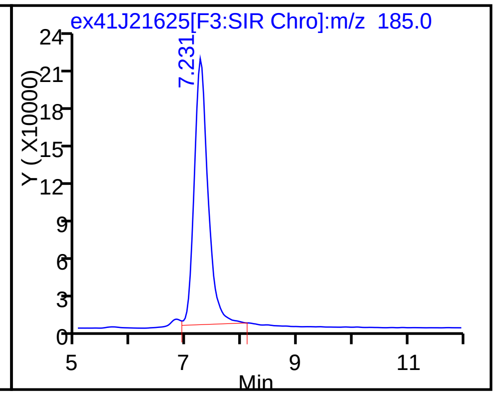
16 2-Amino-4,6-dinitrotoluene (ND)



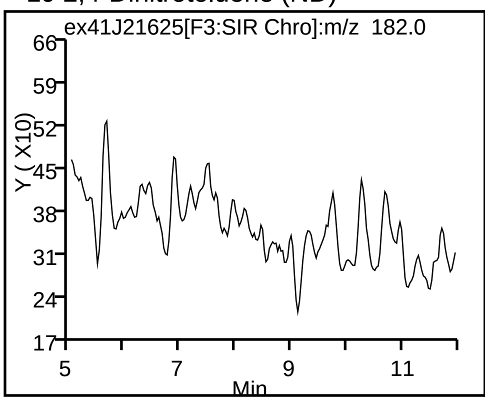
17 2,6-Dinitrotoluene (ND)



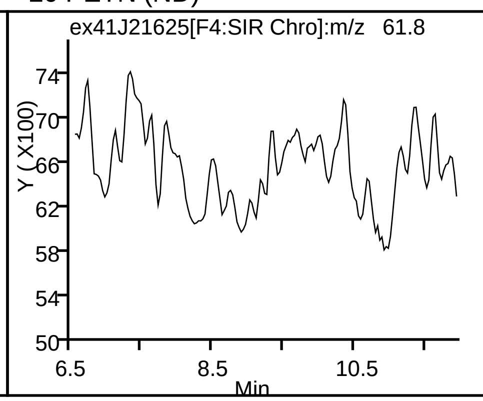
* 18 2,4-dinitrotoluene-d3



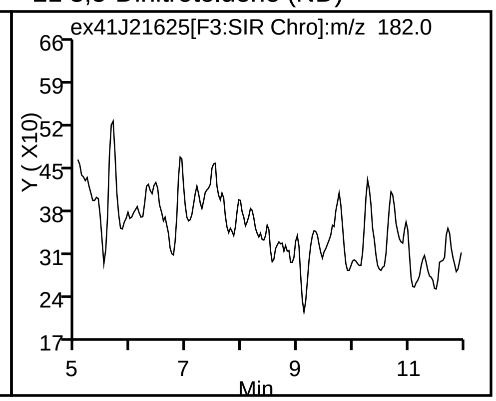
19 2,4-Dinitrotoluene (ND)



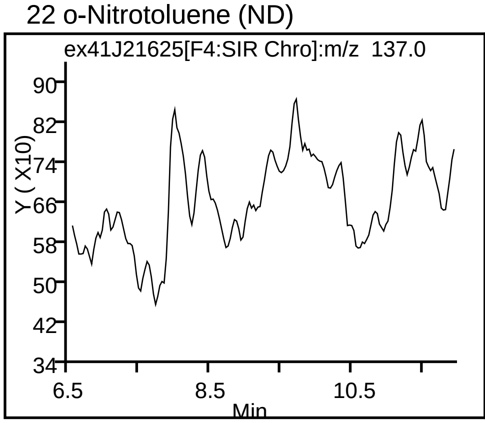
20 PETN (ND)



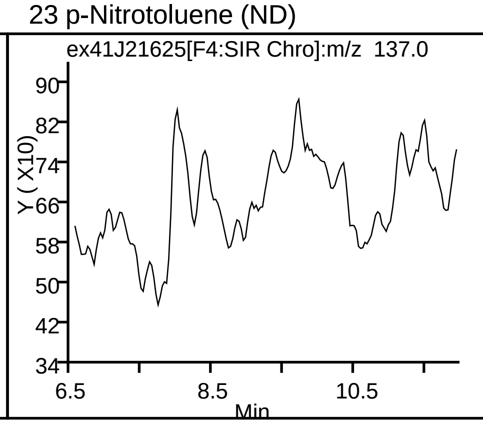
21 3,5-Dinitrotoluene (ND)



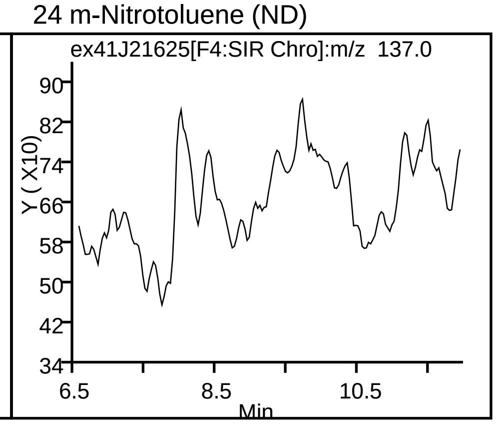
22 o-Nitrotoluene (ND)



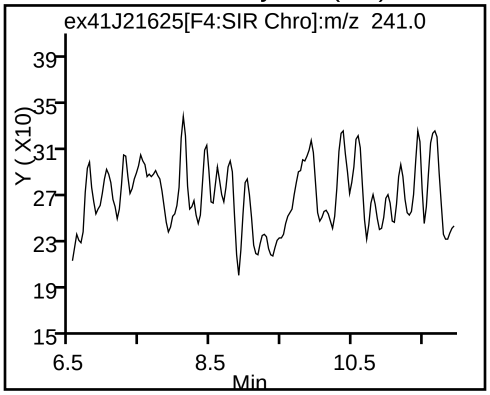
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name:	TestAmerica Denver	Job No.:	280-21683-1
SDG No.:			
Client Sample ID:	CP08 SB011	Lab Sample ID:	280-21683-83
Matrix:	Solid	Lab File ID:	ex41J21626.d
Analysis Method:	8321B	Date Collected:	10/16/2011 11:59
Extraction Method:	8330B	Date Extracted:	10/19/2011 20:50
Sample wt/vol:	10.44(g)	Date Analyzed:	11/02/2011 02:17
Con. Extract Vol.:	40(mL)	Dilution Factor:	1
Injection Volume:	40(uL)	GC Column:	IonPac ID: 2(mm)
% Moisture:		GPC Cleanup:(Y/N)	N
Analysis Batch No.:	94194	Units:	mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21626.d		
Lims ID:	280-21683-A-83-C	Client ID:	SB011
Inject. Date:	02-Nov-2011 02:17:26	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-83-C 280-0002689-150		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	86
Lims Batch ID:	94194	Lims Sample ID:	150
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:24	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		585777	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2013007	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1319919	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	548790	84.2			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							
15 2,3-Dinitrotoluene										1
3	182.0		6.533							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3764068	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

QC Flag Legend

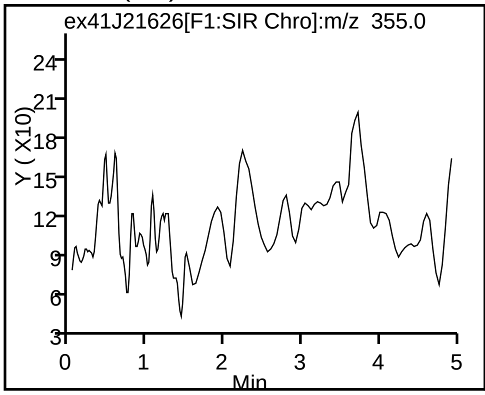
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:54:27 | Chrom Revision: 1.2 13-Jul-2011 10:43:06

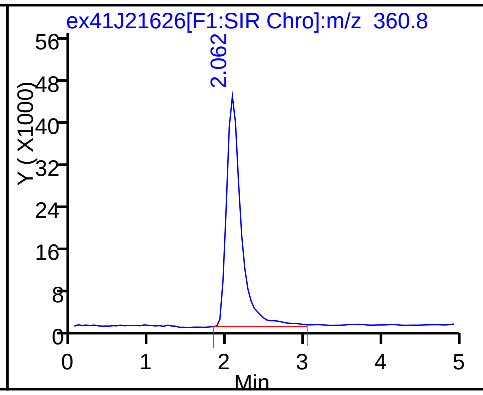
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21626.d

Injection Date:	02-Nov-2011 02:17:26	Limit Group:	LC - 8321A Expl
Client ID:	SB011	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	150
Operator ID:		Injection Vol:	40.00 ul

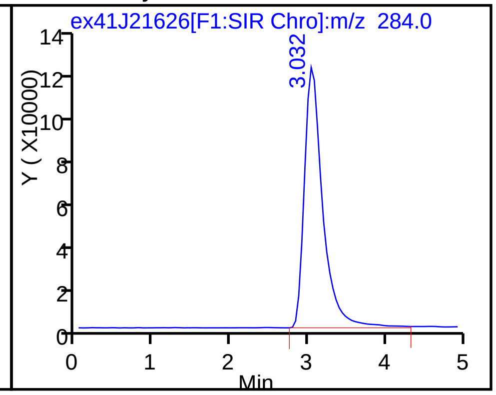
2 HMX (ND)



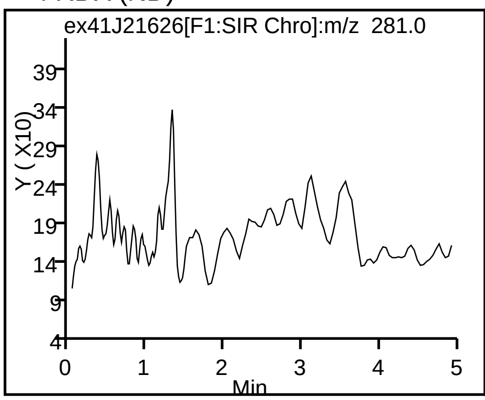
* 1 HMX-13C4



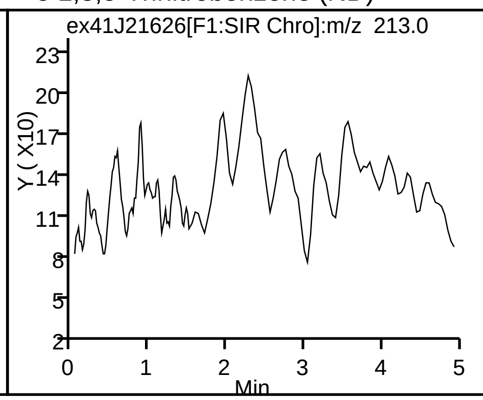
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



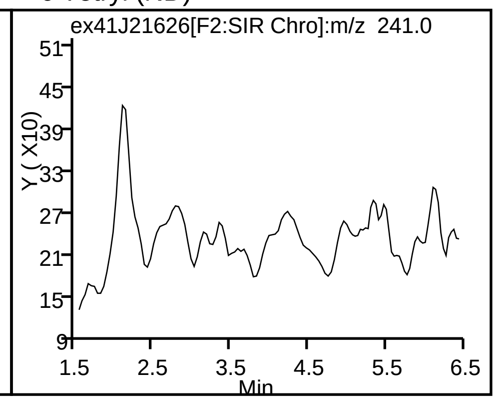
4 RDX (ND)



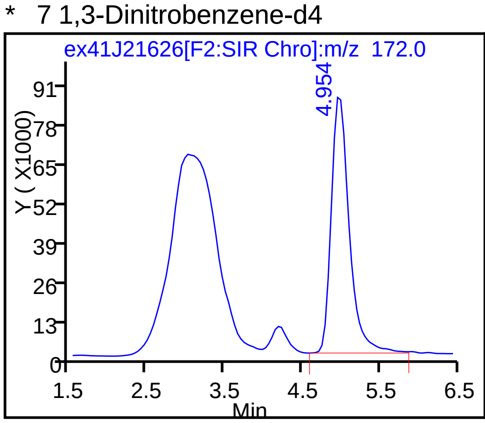
5 1,3,5-Trinitrobenzene (ND)



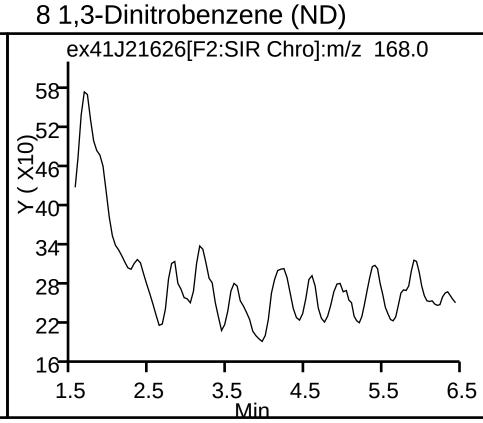
6 Tetryl (ND)



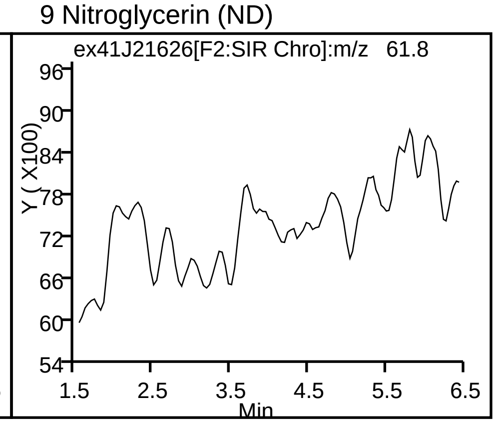
* 7 1,3-Dinitrobenzene-d4



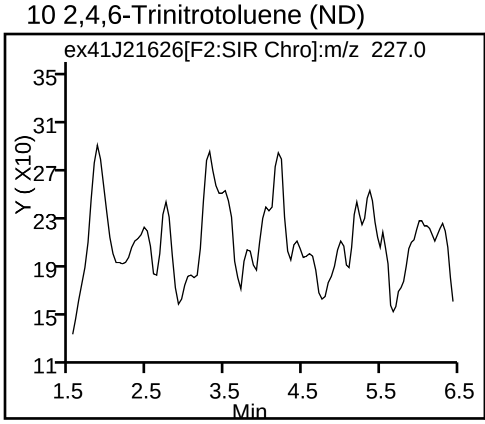
8 1,3-Dinitrobenzene (ND)



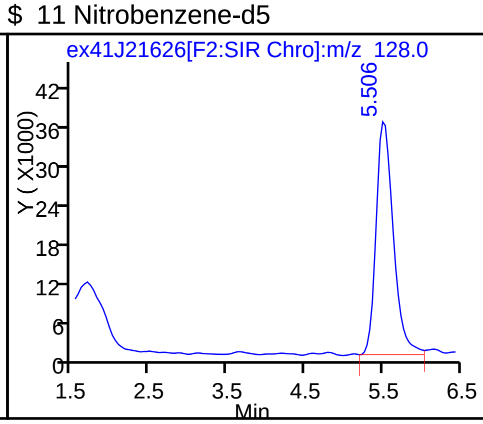
9 Nitroglycerin (ND)



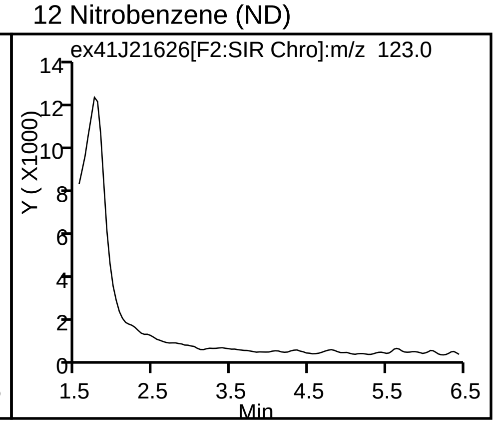
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

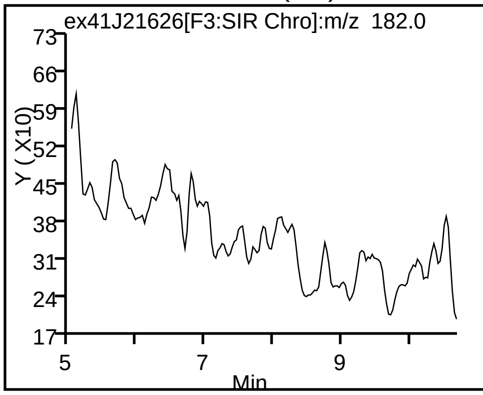


12 Nitrobenzene (ND)

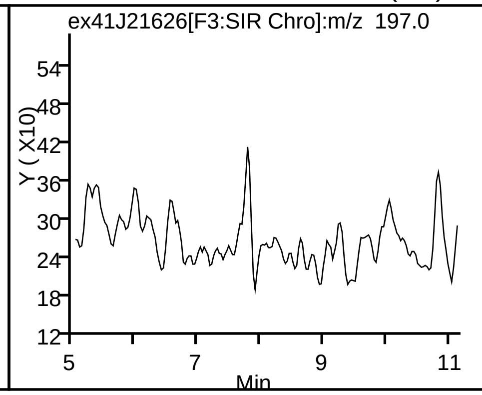


Report Date: 02-Nov-2011 06:54:27 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21626.d

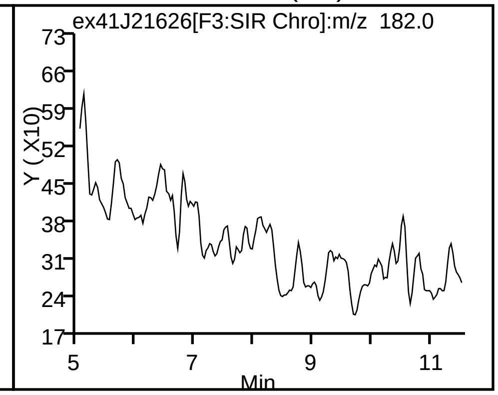
13 3,4-Dinitrotoluene (ND)



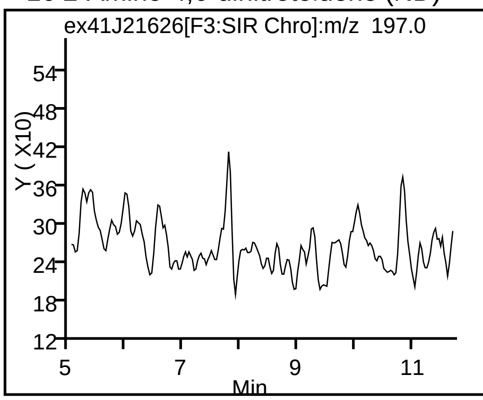
14 4-Amino-2,6-dinitrotoluene (ND)



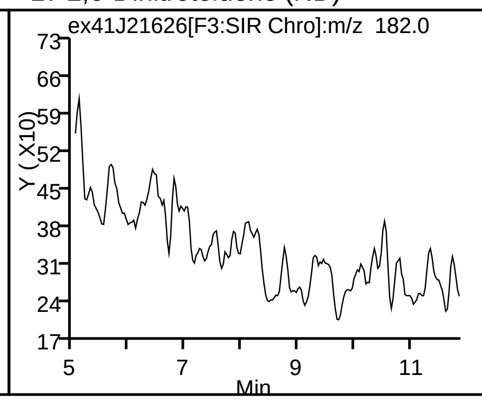
15 2,3-Dinitrotoluene (ND)



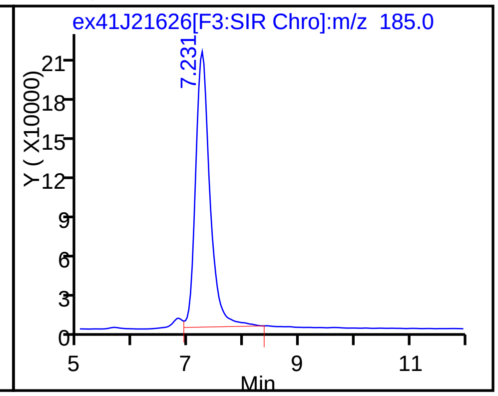
16 2-Amino-4,6-dinitrotoluene (ND)



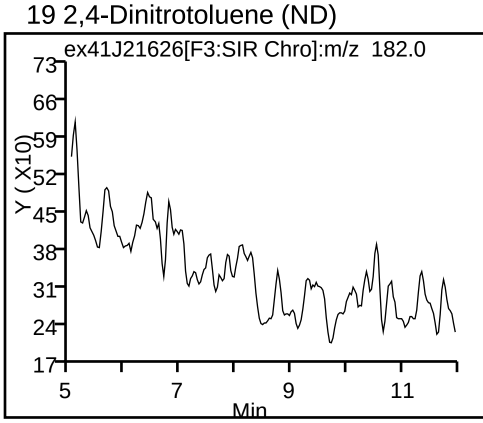
17 2,6-Dinitrotoluene (ND)



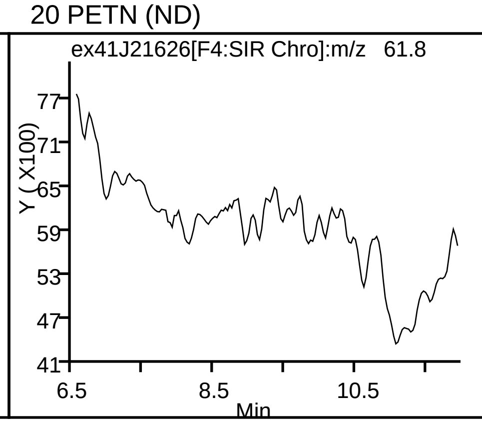
* 18 2,4-dinitrotoluene-d3



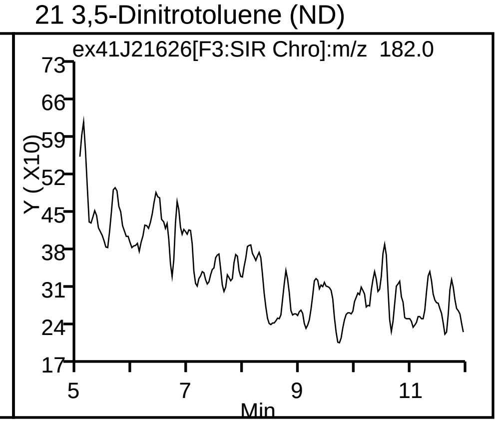
19 2,4-Dinitrotoluene (ND)



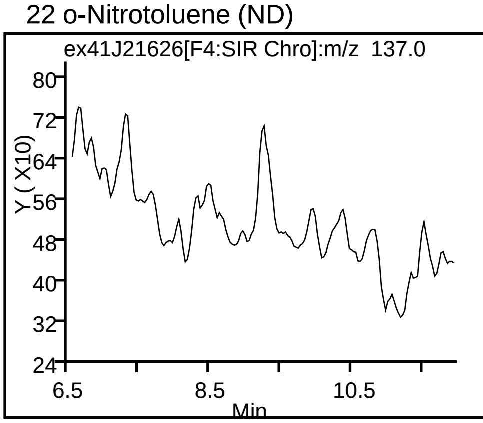
20 PETN (ND)



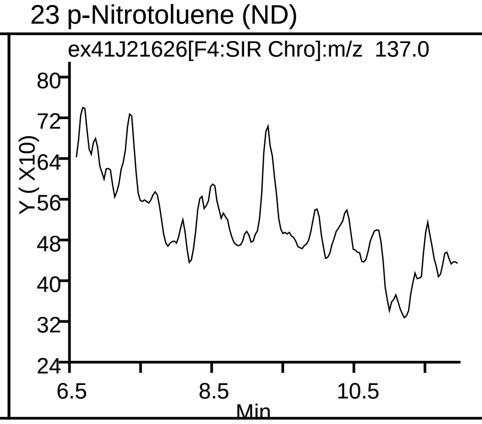
21 3,5-Dinitrotoluene (ND)



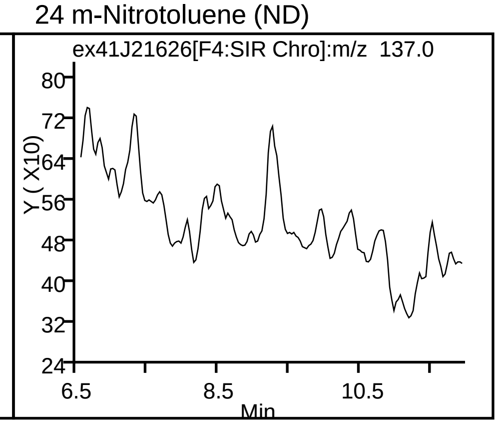
22 o-Nitrotoluene (ND)



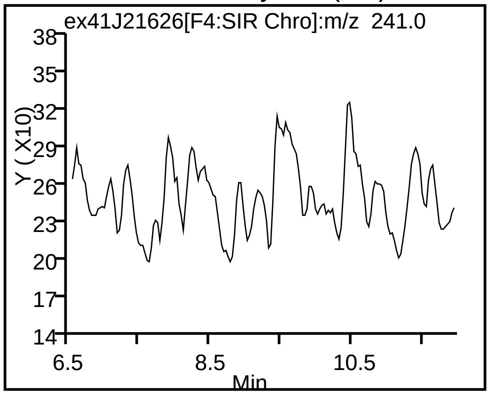
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP11 SB16A   Lab Sample ID: 280-21683-84

Matrix: Solid   Lab File ID: ex41J21627.d

Analysis Method: 8321B   Date Collected: 10/16/2011 12:41

Extraction Method: 8330B   Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.32(g)   Date Analyzed: 11/02/2011 02:30

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21627.d		
Lims ID:	280-21683-B-84-B	Client ID:	SB16A
Inject. Date:	02-Nov-2011 02:30:59	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-84-B 280-0002689-151		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	87
Lims Batch ID:	94194	Lims Sample ID:	151
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:24	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		668518	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2253031	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1385789	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	544525	79.5			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							
15 2,3-Dinitrotoluene										1
3	182.0		6.533							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3971757	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

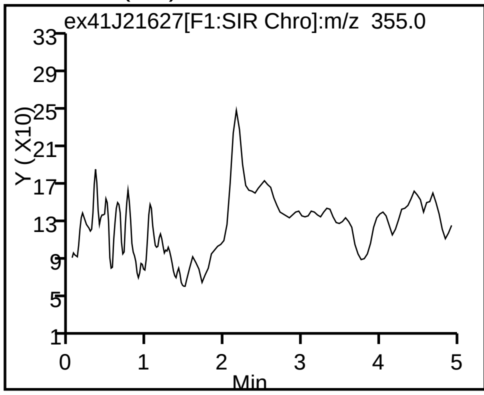
QC Flag Legend

Processing Flags
1 - Missing Peaks

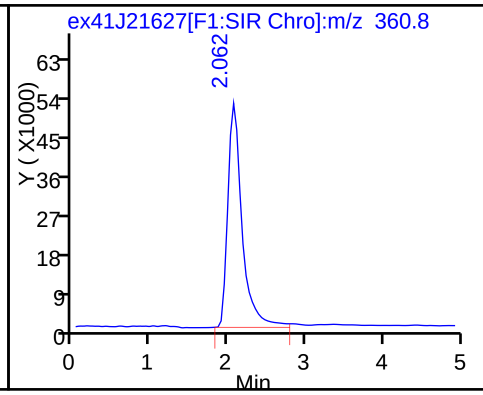
Report Date: 02-Nov-2011 06:54:28 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21627.d

Injection Date:	02-Nov-2011 02:30:59	Limit Group:	LC - 8321A Expl
Client ID:	SB16A	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	151
Operator ID:		Injection Vol:	40.00 ul

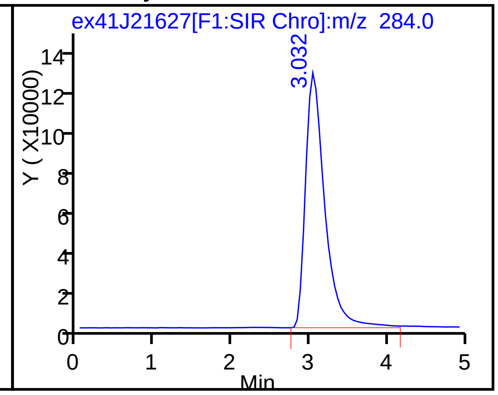
2 HMX (ND)



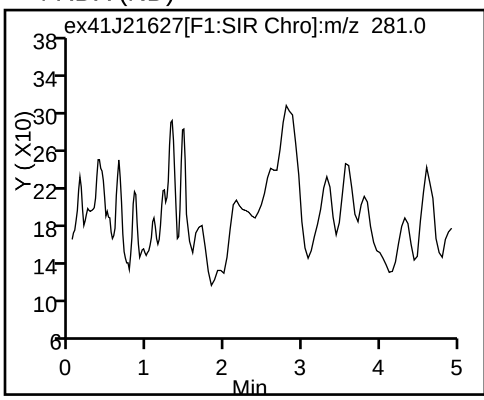
* 1 HMX-13C4



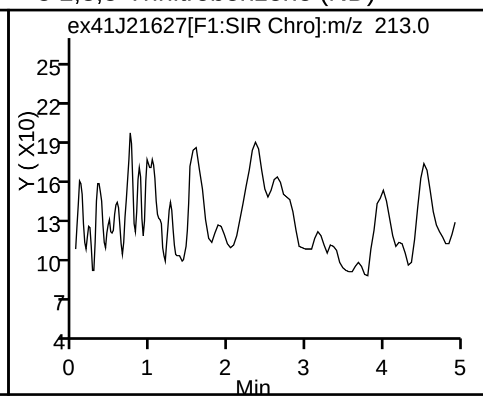
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



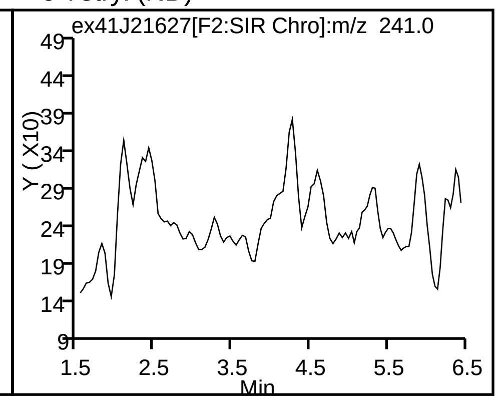
4 RDX (ND)



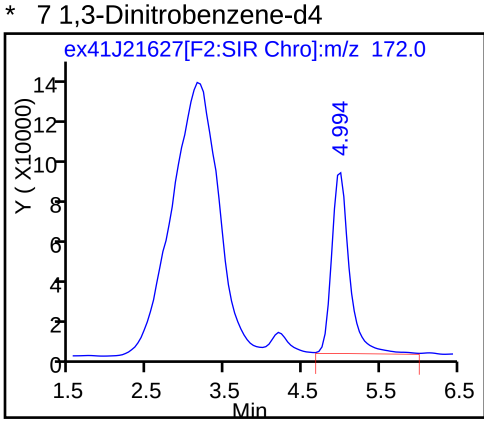
5 1,3,5-Trinitrobenzene (ND)



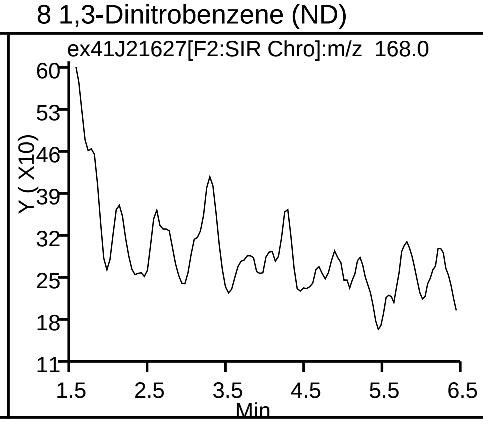
6 Tetryl (ND)



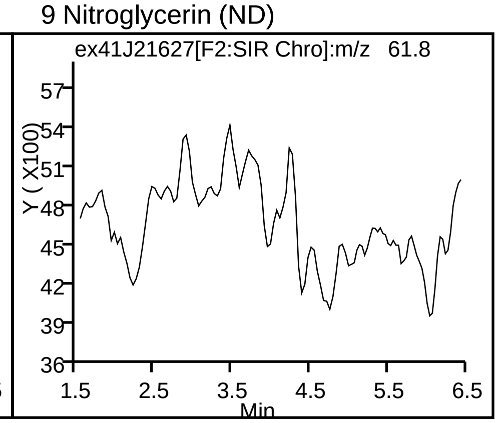
* 7 1,3-Dinitrobenzene-d4



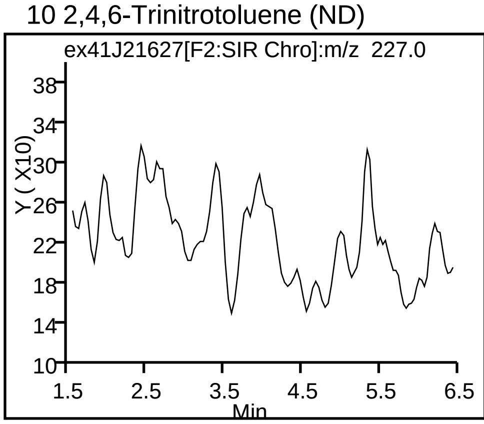
8 1,3-Dinitrobenzene (ND)



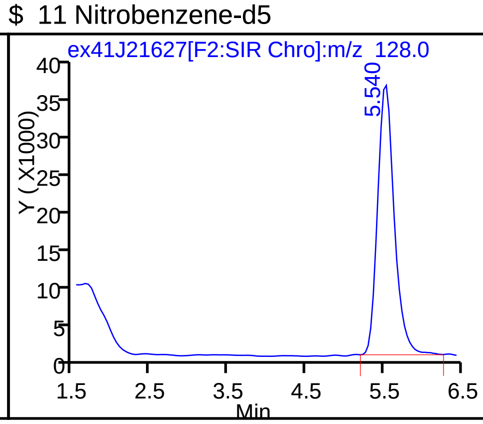
9 Nitroglycerin (ND)



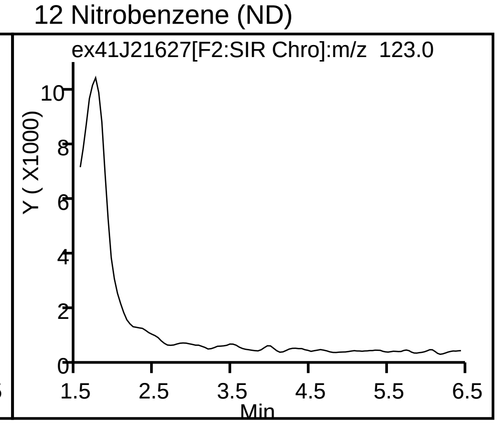
10 2,4,6-Trinitrotoluene (ND)



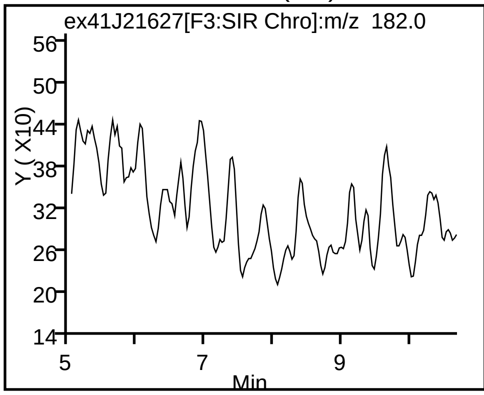
$ 11 Nitrobenzene-d5



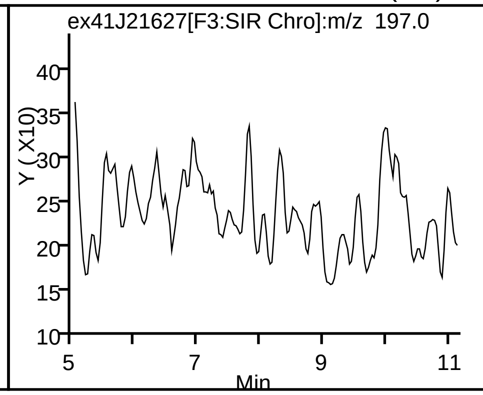
12 Nitrobenzene (ND)



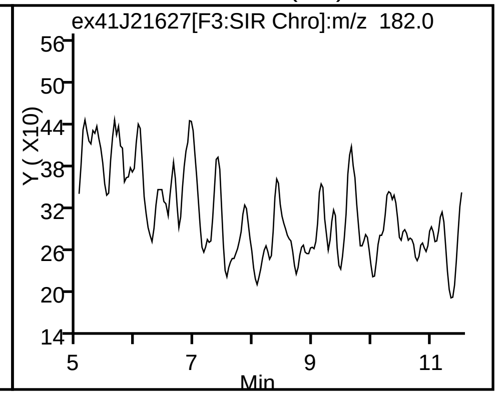
13 3,4-Dinitrotoluene (ND)



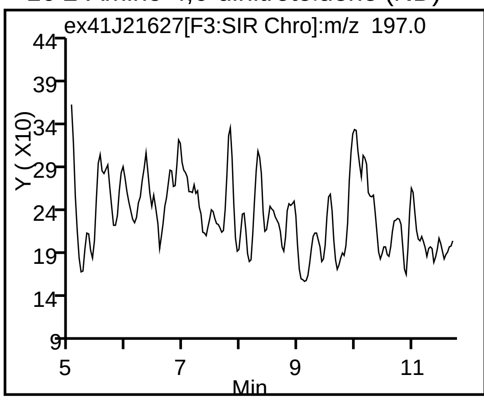
14 4-Amino-2,6-dinitrotoluene (ND)



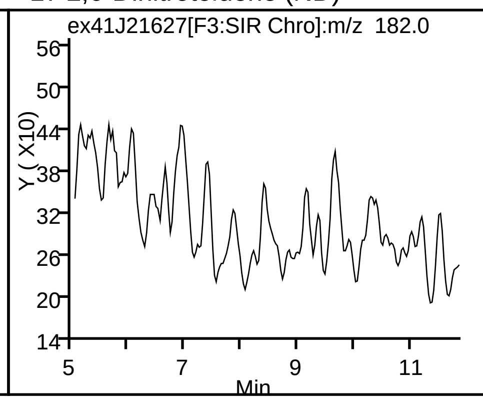
15 2,3-Dinitrotoluene (ND)



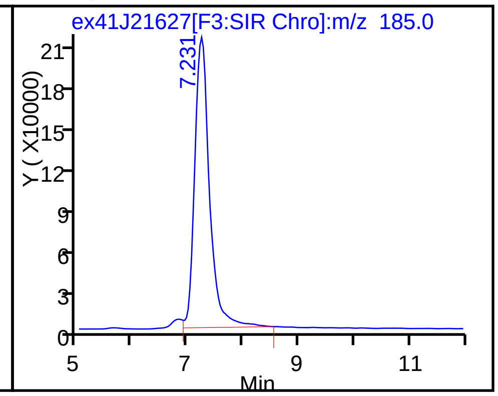
16 2-Amino-4,6-dinitrotoluene (ND)



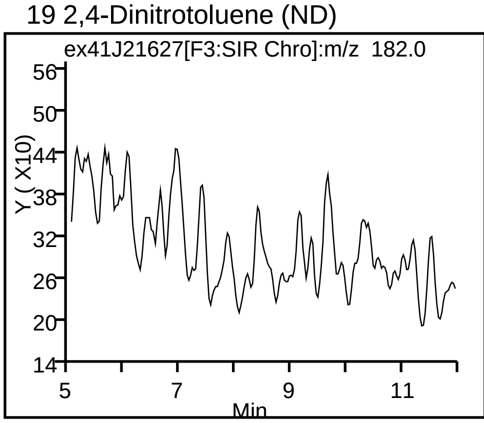
17 2,6-Dinitrotoluene (ND)



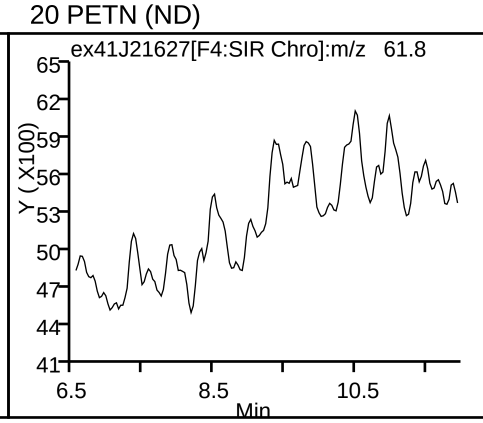
* 18 2,4-dinitrotoluene-d3



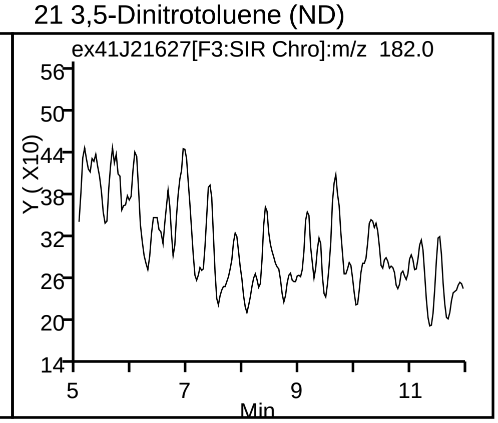
19 2,4-Dinitrotoluene (ND)



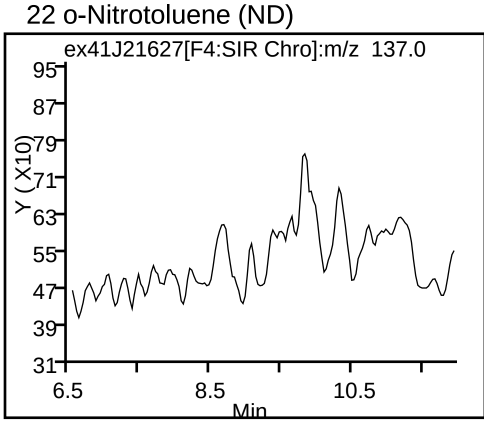
20 PETN (ND)



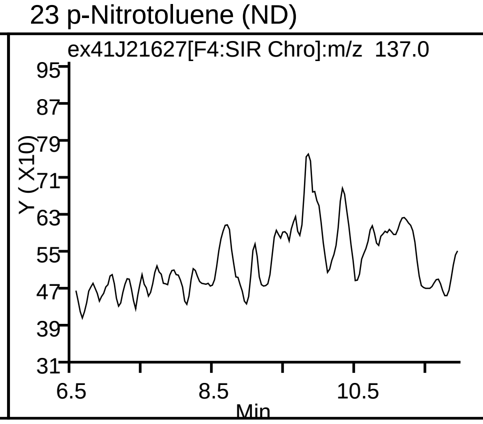
21 3,5-Dinitrotoluene (ND)



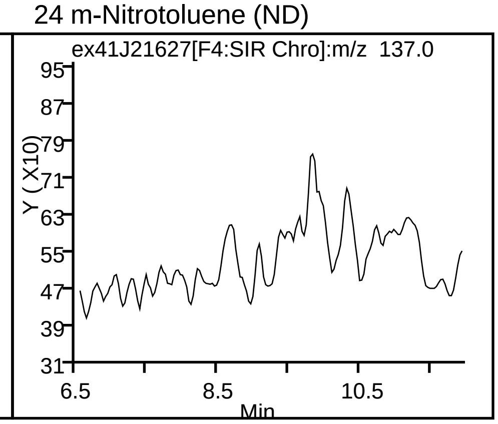
22 o-Nitrotoluene (ND)



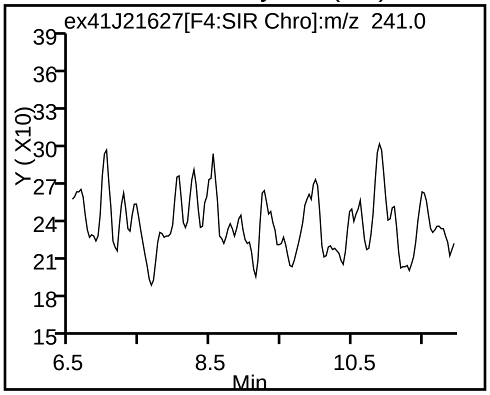
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP11 SB16B | Lab Sample ID: 280-21683-85

Matrix: Solid | Lab File ID: ex41J21628.d

Analysis Method: 8321B | Date Collected: 10/16/2011 12:43

Extraction Method: 8330B | Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.48(g) | Date Analyzed: 11/02/2011 02:44

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	89		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21628.d		
Lims ID:	280-21683-A-85-C	Client ID:	SB16B
Inject. Date:	02-Nov-2011 02:44:34	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-85-C 280-0002689-152		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	88
Lims Batch ID:	94194	Lims Sample ID:	152
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:24	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 02-Nov-2011 06:52:10

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		595193	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2169296	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1274618	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	555757	88.3			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.533							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3641290	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

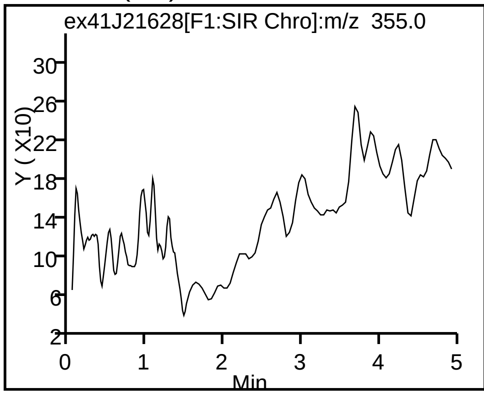
QC Flag Legend

Processing Flags
1 - Missing Peaks

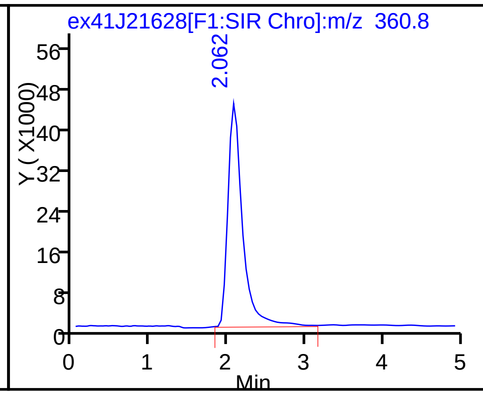
Report Date: 02-Nov-2011 06:54:28 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21628.d

Injection Date:	02-Nov-2011 02:44:34	Limit Group:	LC - 8321A Expl
Client ID:	SB16B	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	152
Operator ID:		Injection Vol:	40.00 ul

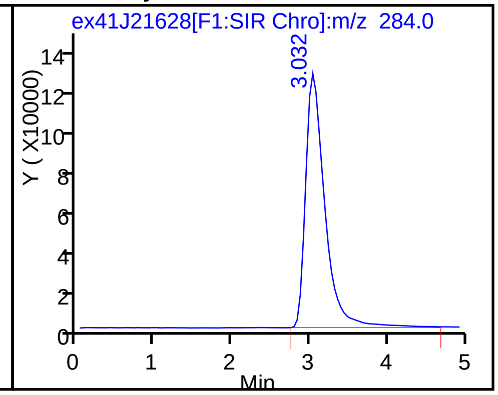
2 HMX (ND)



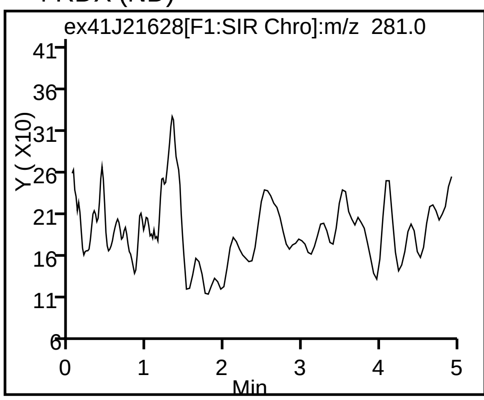
* 1 HMX-13C4



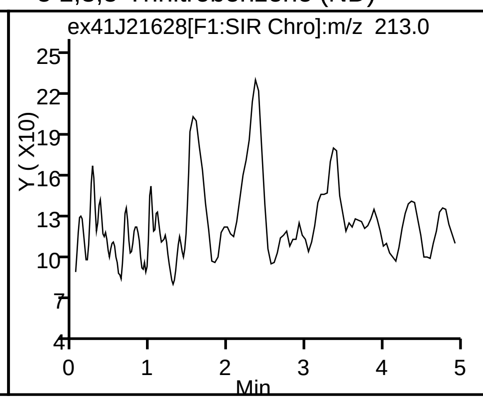
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



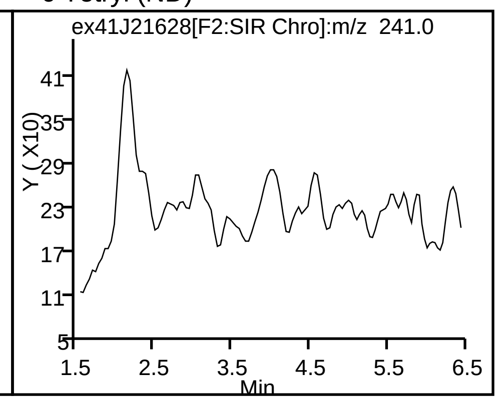
4 RDX (ND)



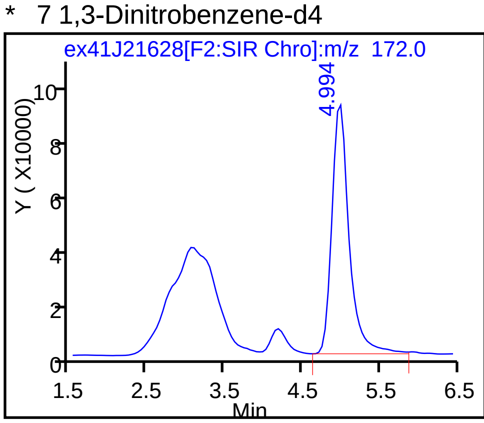
5 1,3,5-Trinitrobenzene (ND)



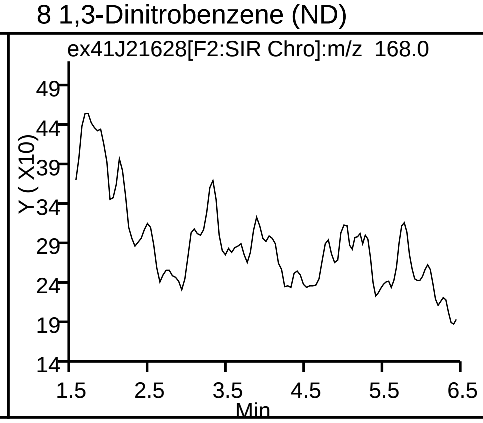
6 Tetryl (ND)



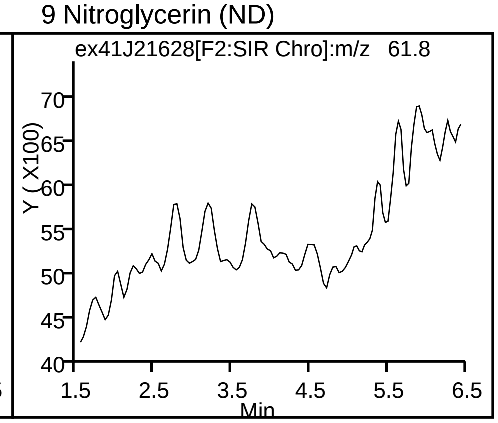
* 7 1,3-Dinitrobenzene-d4



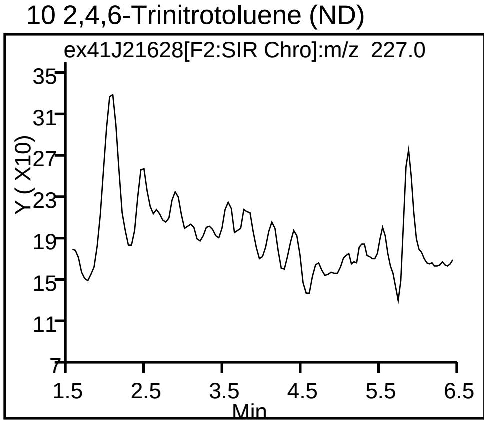
8 1,3-Dinitrobenzene (ND)



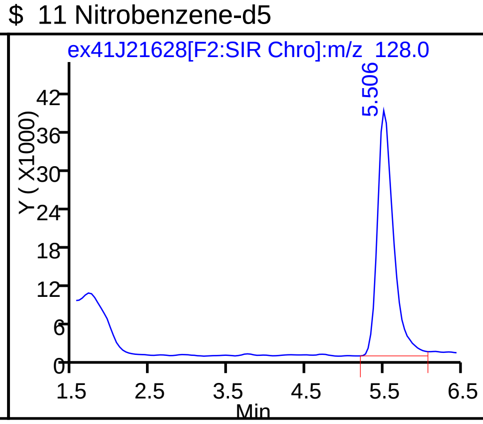
9 Nitroglycerin (ND)



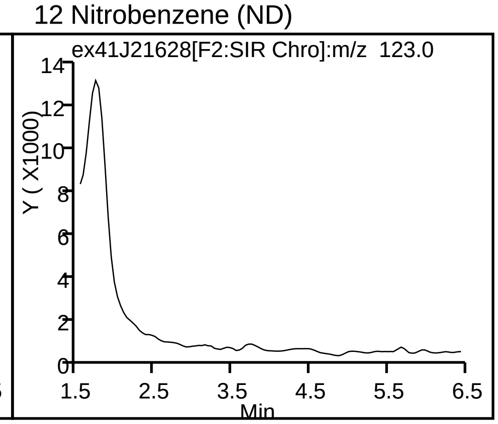
10 2,4,6-Trinitrotoluene (ND)



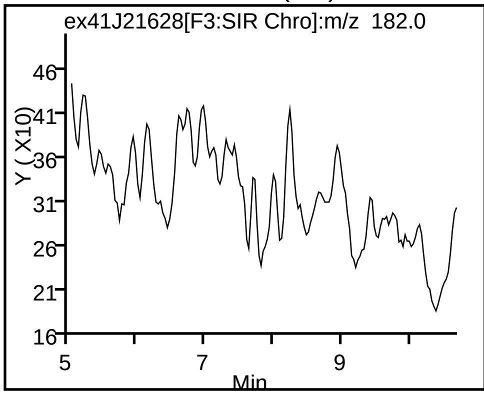
$ 11 Nitrobenzene-d5



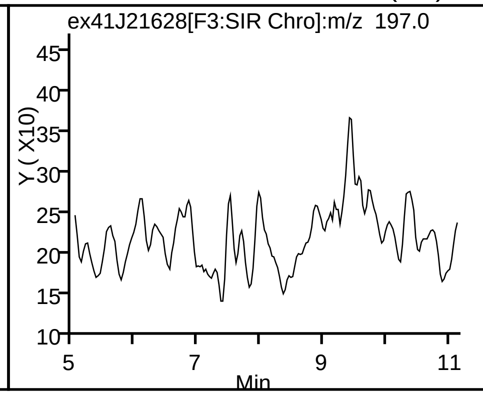
12 Nitrobenzene (ND)



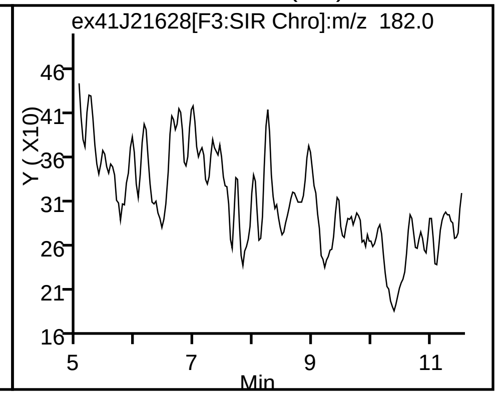
13 3,4-Dinitrotoluene (ND)



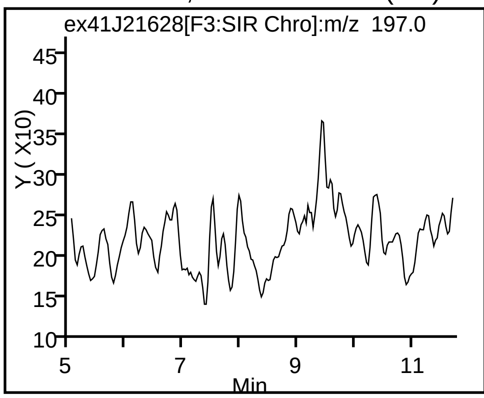
14 4-Amino-2,6-dinitrotoluene (ND)



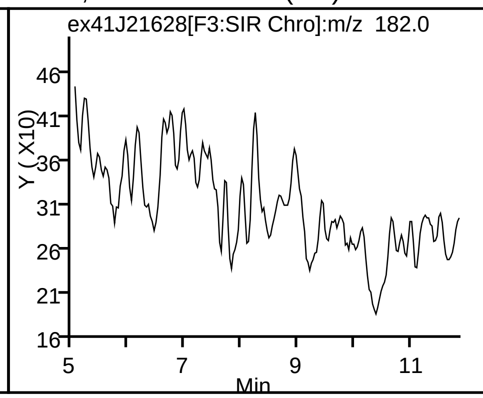
15 2,3-Dinitrotoluene (ND)



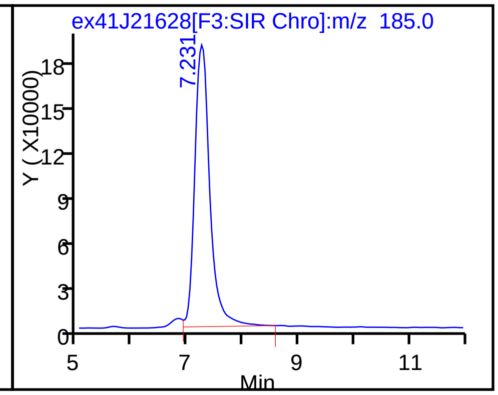
16 2-Amino-4,6-dinitrotoluene (ND)



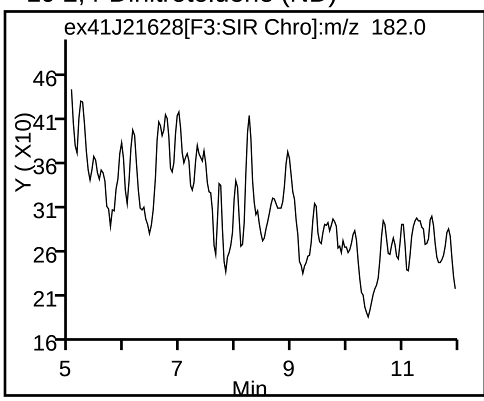
17 2,6-Dinitrotoluene (ND)



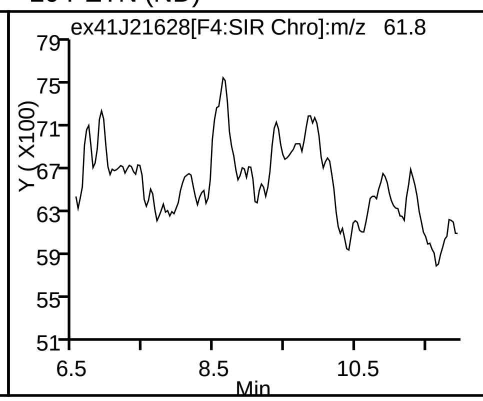
* 18 2,4-dinitrotoluene-d3



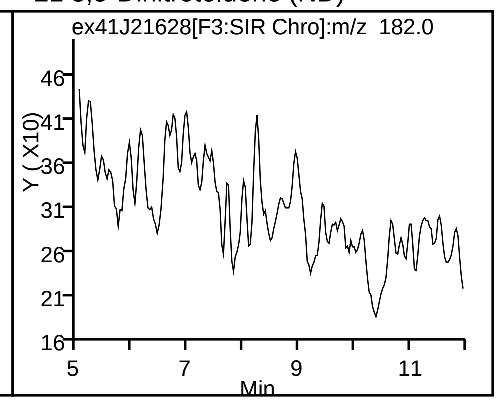
19 2,4-Dinitrotoluene (ND)



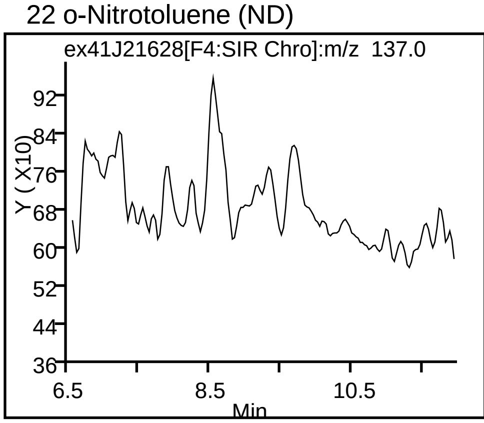
20 PETN (ND)



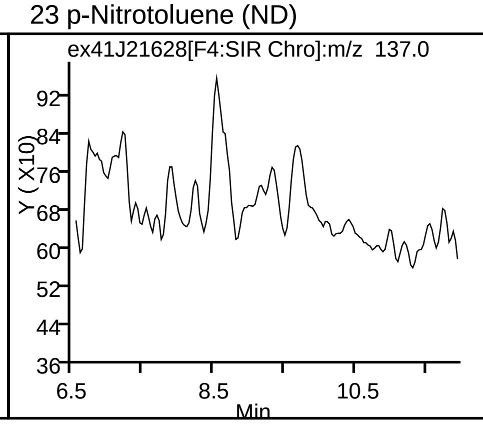
21 3,5-Dinitrotoluene (ND)



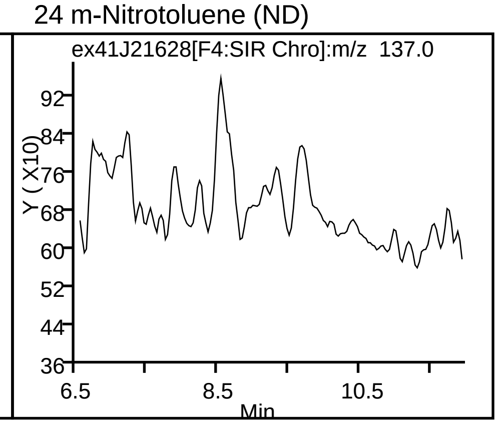
22 o-Nitrotoluene (ND)



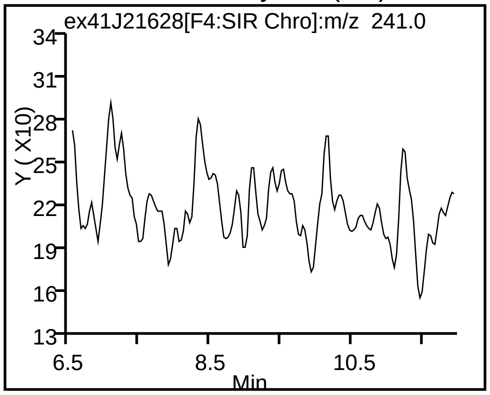
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP07 SB007 | Lab Sample ID: 280-21683-86

Matrix: Solid | Lab File ID: ex41J21629.d

Analysis Method: 8321B | Date Collected: 10/16/2011 13:00

Extraction Method: 8330B | Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.30(g) | Date Analyzed: 11/02/2011 02:58

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	79		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21629.d
Lims ID: 280-21683-A-86-C Client ID: SB007
Inject. Date: 02-Nov-2011 02:58:07 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-21683-A-86-C 280-0002689-153
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 89
Lims Batch ID: 94194 Lims Sample ID: 153
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m
Last Update: 02-Nov-2011 06:54:24 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		616269	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2021354	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1243533	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	478829	77.9			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							
15 2,3-Dinitrotoluene										1
3	182.0		6.533							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.231	-0.030		3764760	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

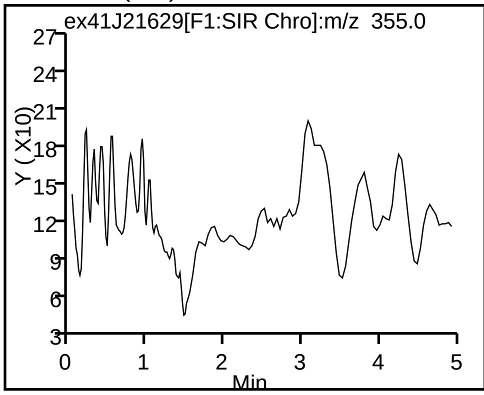
QC Flag Legend

Processing Flags
1 - Missing Peaks

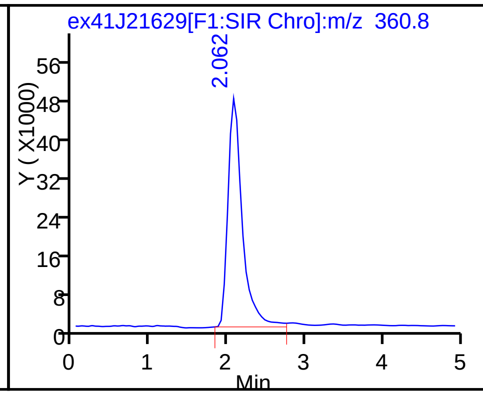
Report Date: 02-Nov-2011 06:54:29 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21629.d

Injection Date:	02-Nov-2011 02:58:07	Limit Group:	LC - 8321A Expl
Client ID:	SB007	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	153
Operator ID:		Injection Vol:	40.00 ul

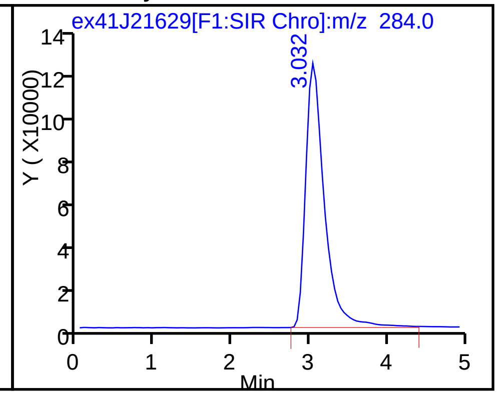
2 HMX (ND)



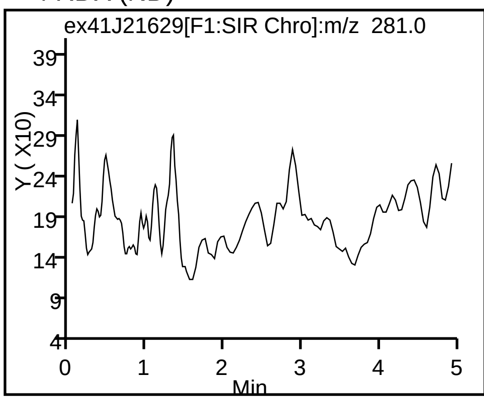
* 1 HMX-13C4



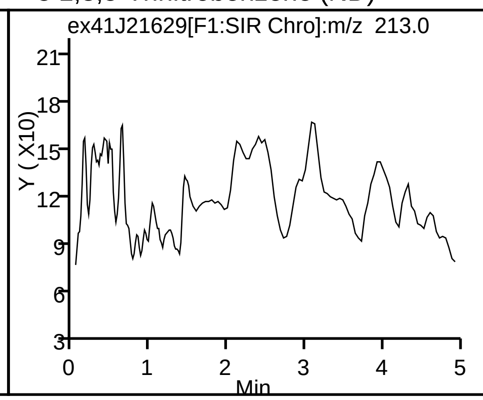
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



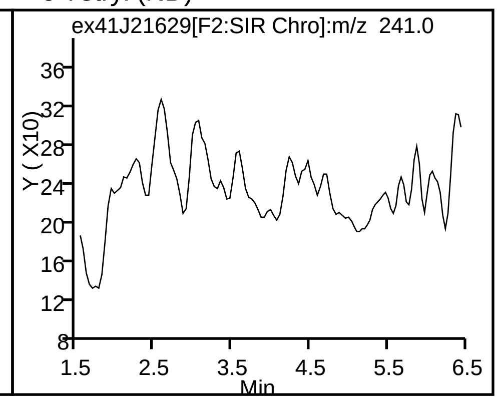
4 RDX (ND)



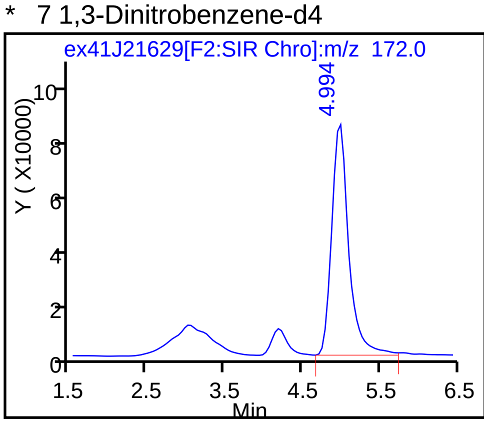
5 1,3,5-Trinitrobenzene (ND)



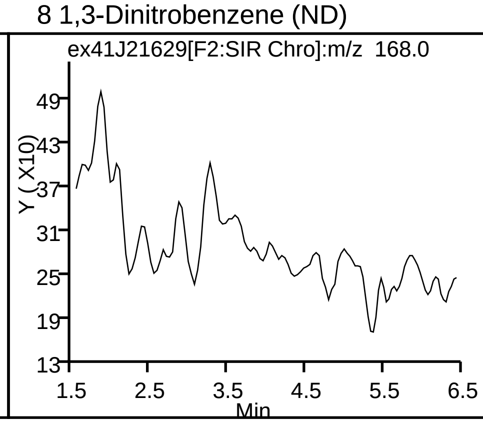
6 Tetryl (ND)



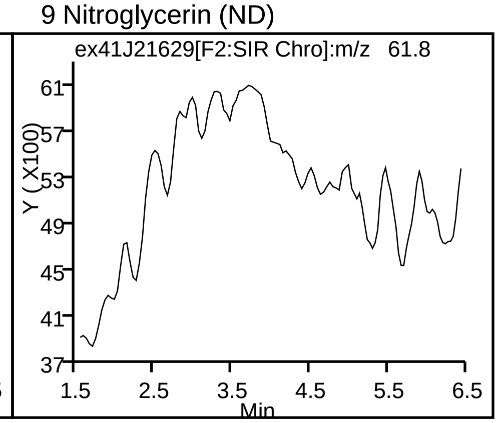
* 7 1,3-Dinitrobenzene-d4



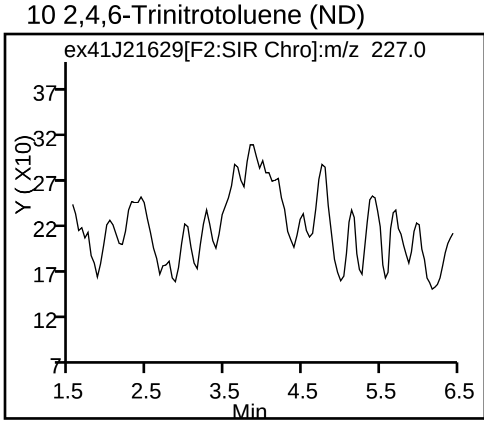
8 1,3-Dinitrobenzene (ND)



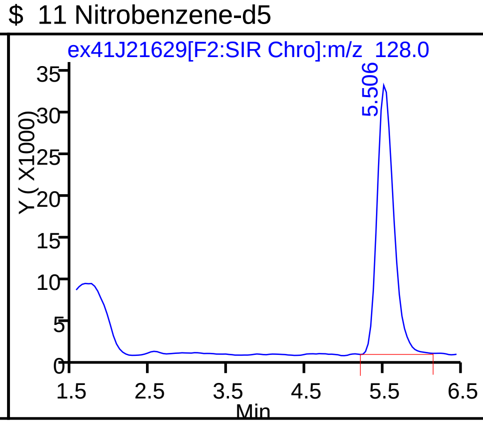
9 Nitroglycerin (ND)



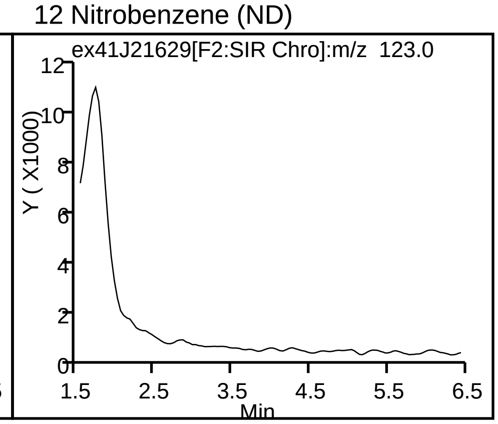
10 2,4,6-Trinitrotoluene (ND)



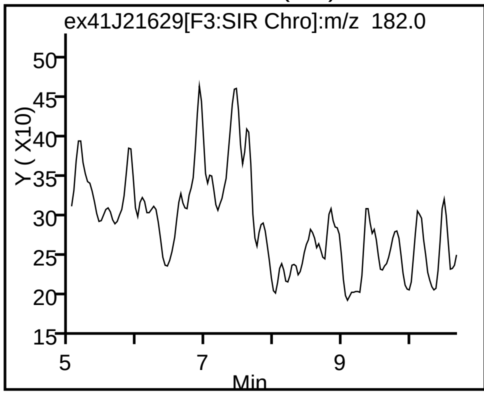
$ 11 Nitrobenzene-d5



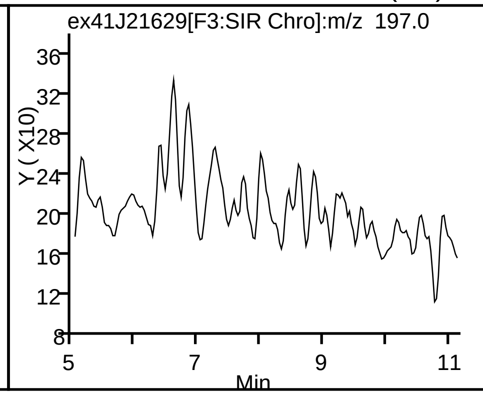
12 Nitrobenzene (ND)



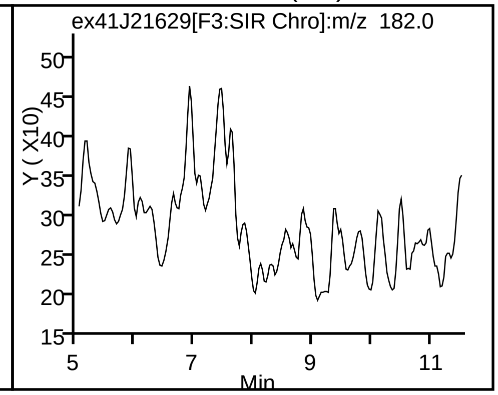
13 3,4-Dinitrotoluene (ND)



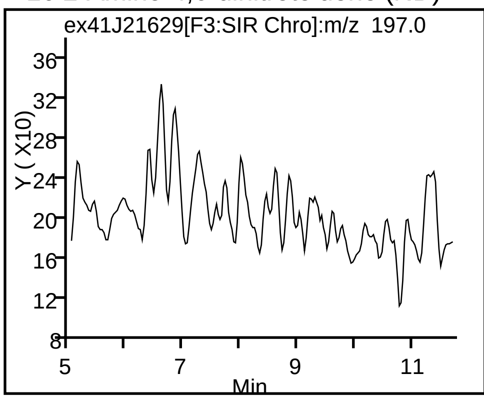
14 4-Amino-2,6-dinitrotoluene (ND)



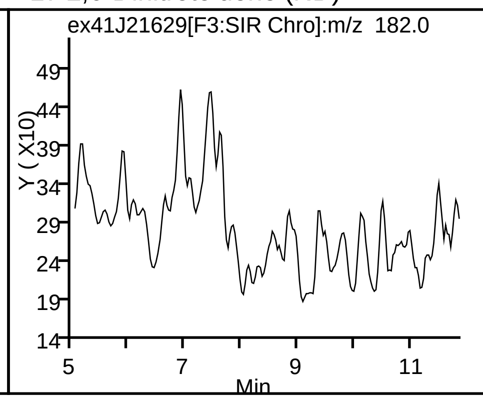
15 2,3-Dinitrotoluene (ND)



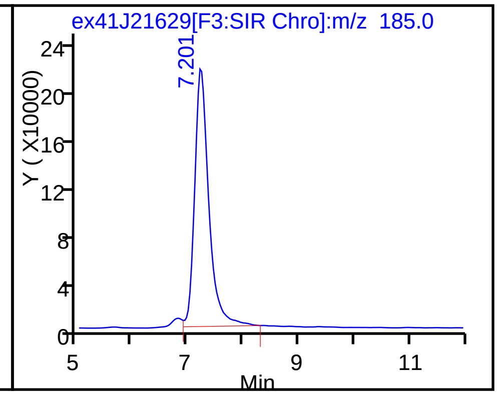
16 2-Amino-4,6-dinitrotoluene (ND)



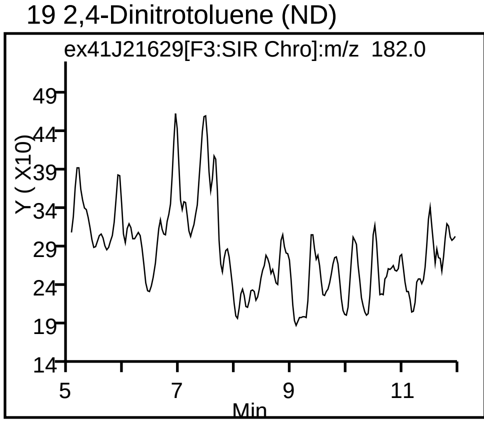
17 2,6-Dinitrotoluene (ND)



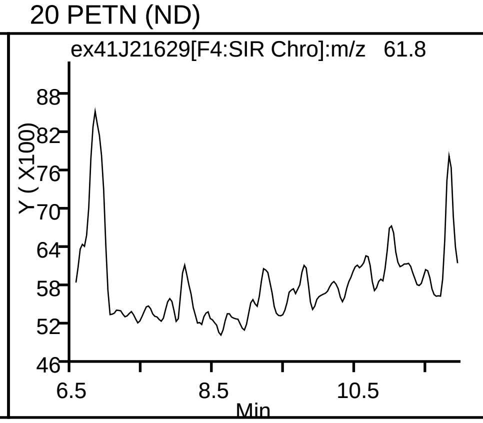
* 18 2,4-dinitrotoluene-d3



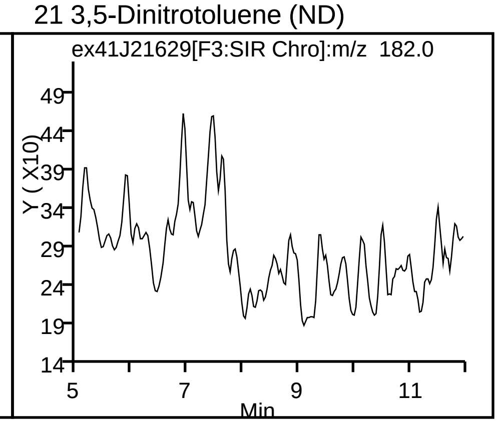
19 2,4-Dinitrotoluene (ND)



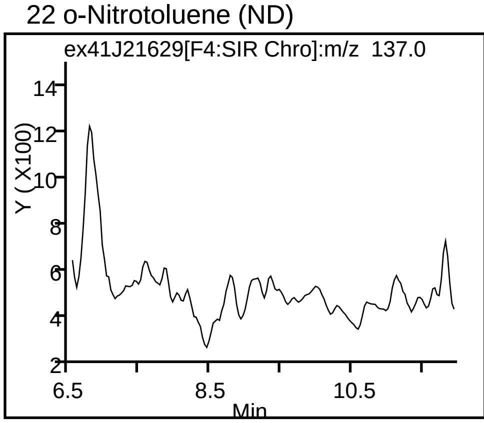
20 PETN (ND)



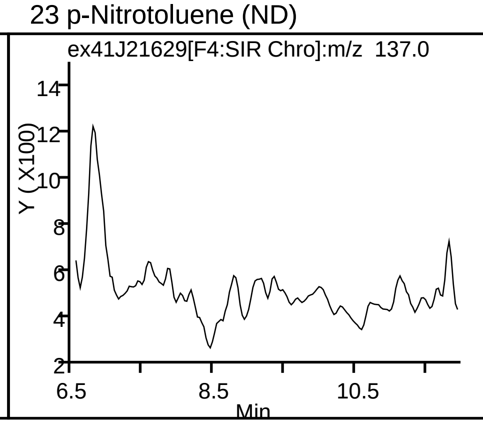
21 3,5-Dinitrotoluene (ND)



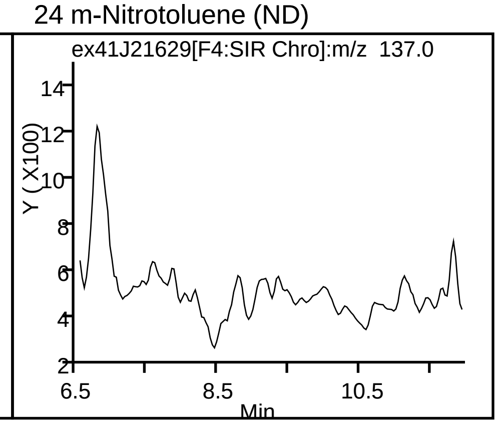
22 o-Nitrotoluene (ND)



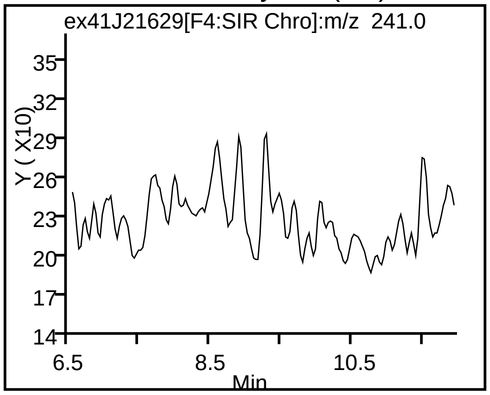
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP07 SB008   Lab Sample ID: 280-21683-87

Matrix: Solid   Lab File ID: ex41J21630.d

Analysis Method: 8321B   Date Collected: 10/16/2011 13:03

Extraction Method: 8330B   Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.68(g)   Date Analyzed: 11/02/2011 03:11

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.094	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.023	U	0.094	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.094	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.023	U	0.094	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.094	0.023	0.010
2691-41-0	HMX	0.012	U	0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.094	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.094	0.012	0.0098
78-11-5	PETN	0.012	U	0.094	0.012	0.0048
121-82-4	RDX	0.012	U	0.094	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.094	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21630.d		
Lims ID:	280-21683-A-87-C	Client ID:	SB008
Inject. Date:	02-Nov-2011 03:11:42	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-87-C 280-0002689-154		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	90
Lims Batch ID:	94194	Lims Sample ID:	154
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:24	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		645873	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2088625	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1313724	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	534732	82.4			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							
15 2,3-Dinitrotoluene										1
3	182.0		6.533							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.231	-0.030		4193044	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

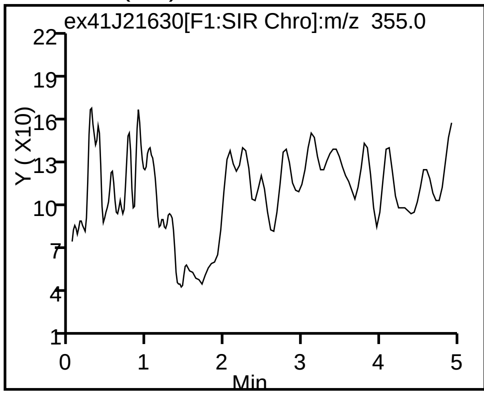
QC Flag Legend

Processing Flags
1 - Missing Peaks

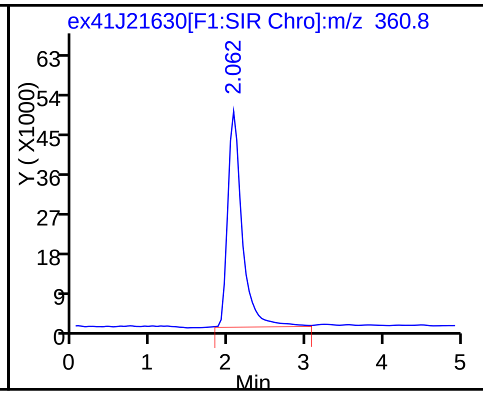
Report Date: 02-Nov-2011 06:54:30 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21630.d

Injection Date:	02-Nov-2011 03:11:42	Limit Group:	LC - 8321A Expl
Client ID:	SB008	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	154
Operator ID:		Injection Vol:	40.00 ul

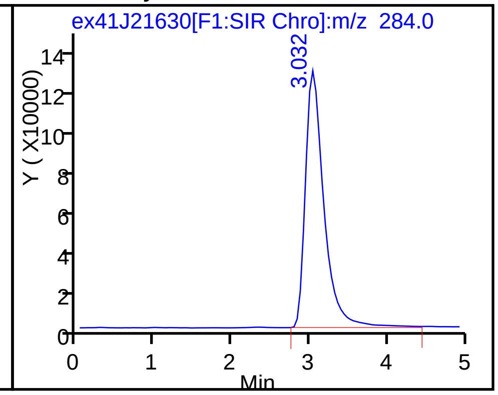
2 HMX (ND)



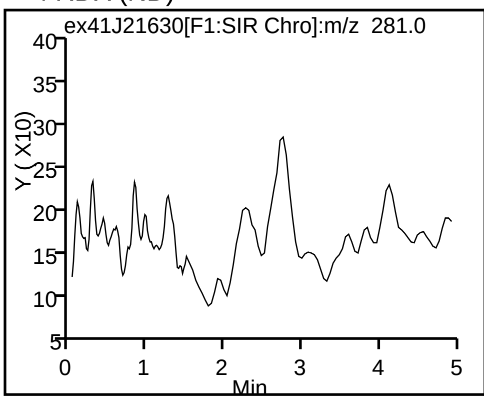
* 1 HMX-13C4



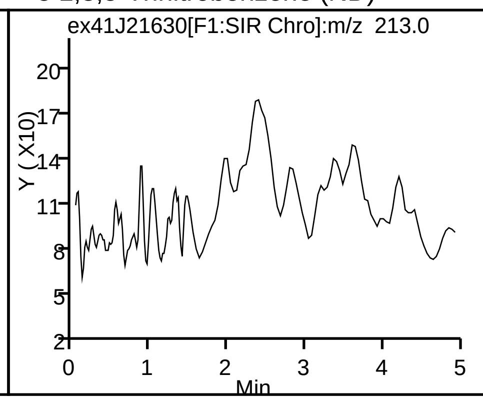
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



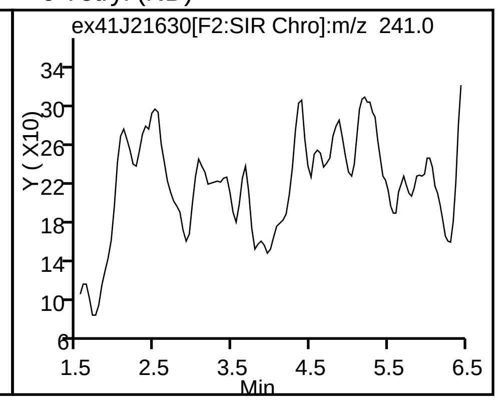
4 RDX (ND)



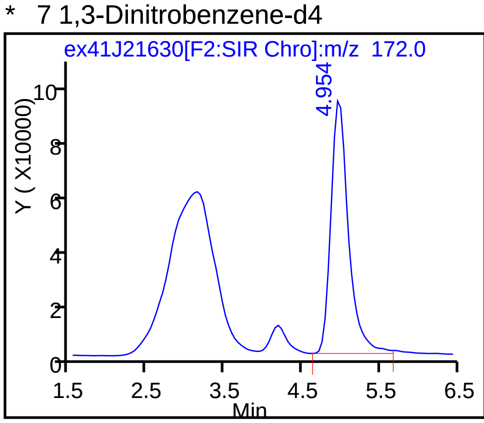
5 1,3,5-Trinitrobenzene (ND)



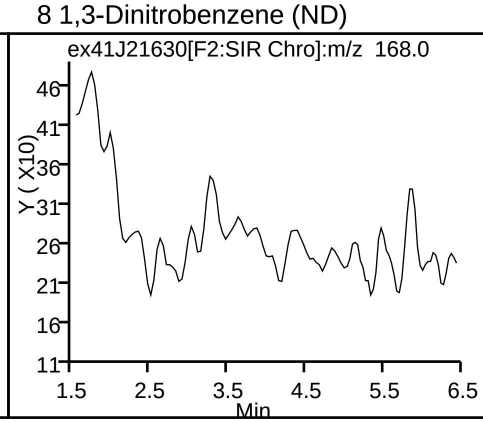
6 Tetryl (ND)



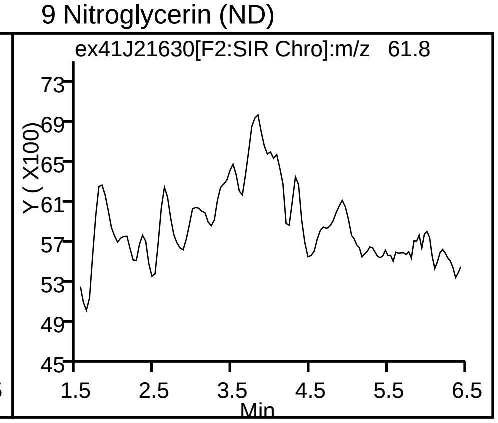
* 7 1,3-Dinitrobenzene-d4



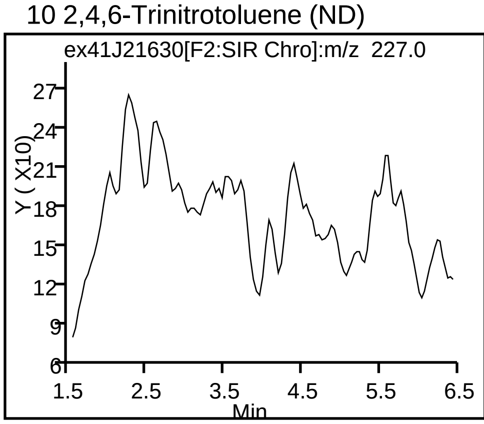
8 1,3-Dinitrobenzene (ND)



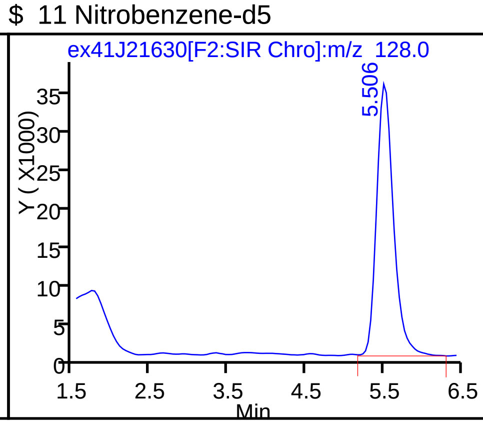
9 Nitroglycerin (ND)



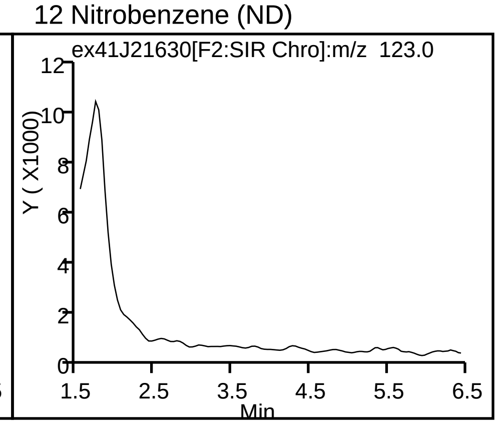
10 2,4,6-Trinitrotoluene (ND)



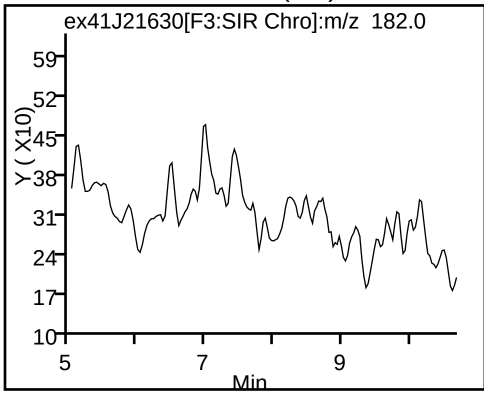
$ 11 Nitrobenzene-d5



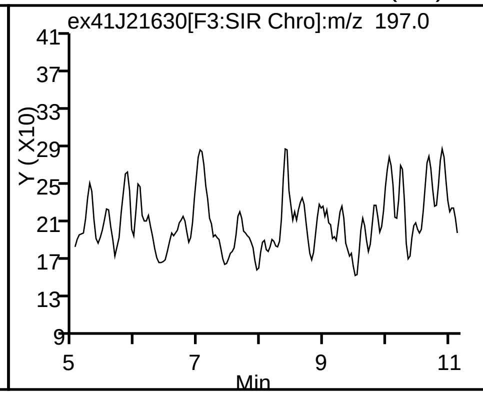
12 Nitrobenzene (ND)



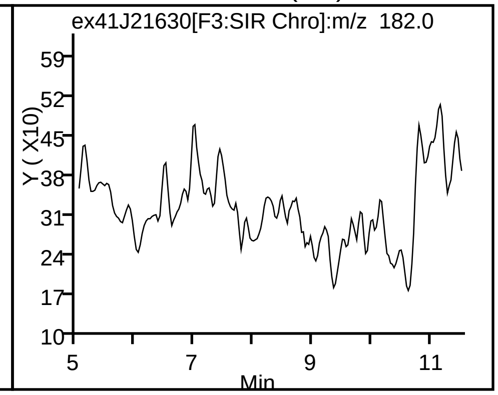
13 3,4-Dinitrotoluene (ND)



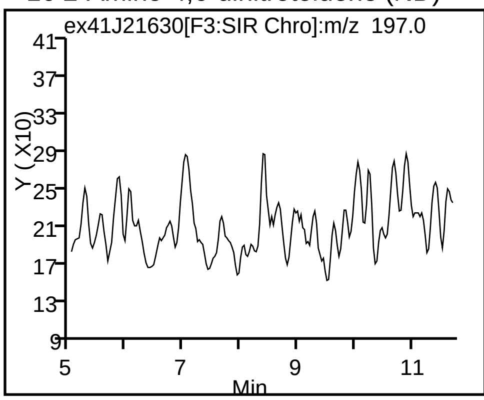
14 4-Amino-2,6-dinitrotoluene (ND)



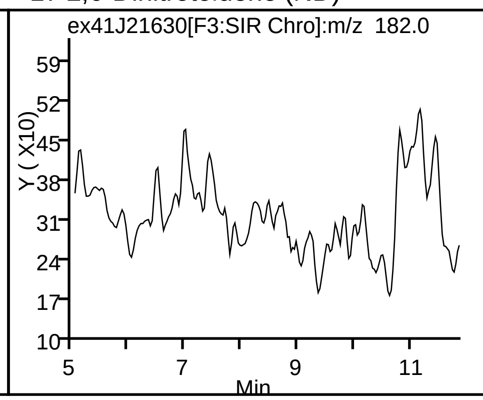
15 2,3-Dinitrotoluene (ND)



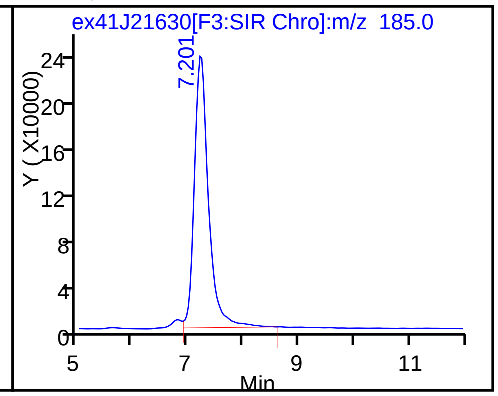
16 2-Amino-4,6-dinitrotoluene (ND)



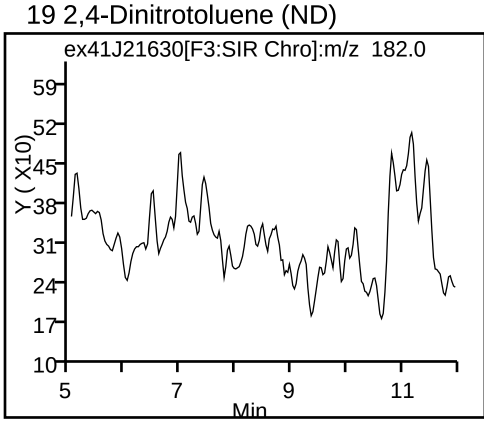
17 2,6-Dinitrotoluene (ND)



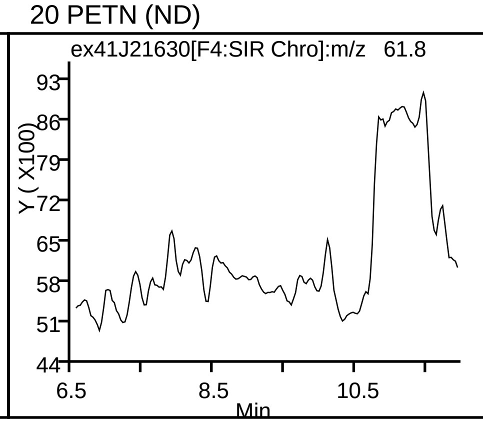
* 18 2,4-dinitrotoluene-d3



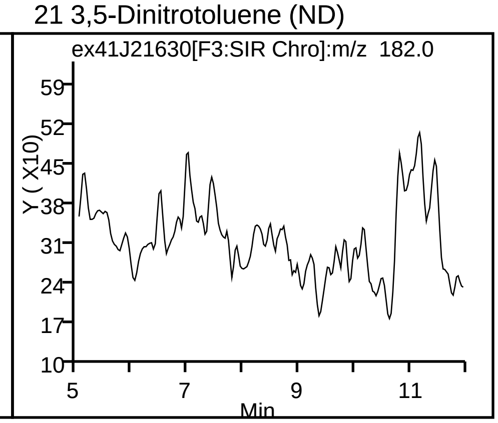
19 2,4-Dinitrotoluene (ND)



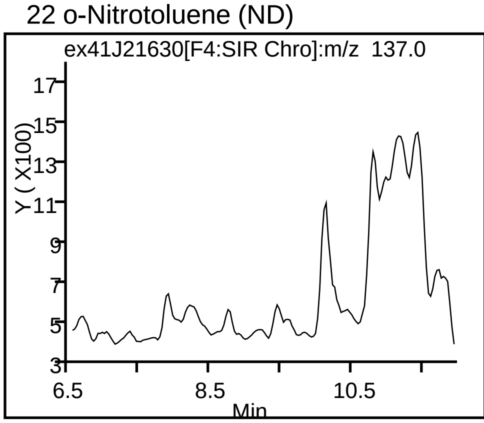
20 PETN (ND)



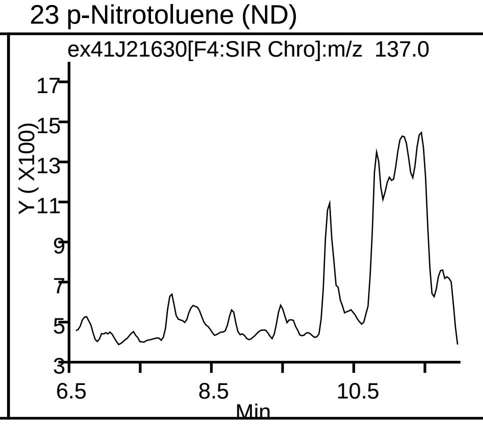
21 3,5-Dinitrotoluene (ND)



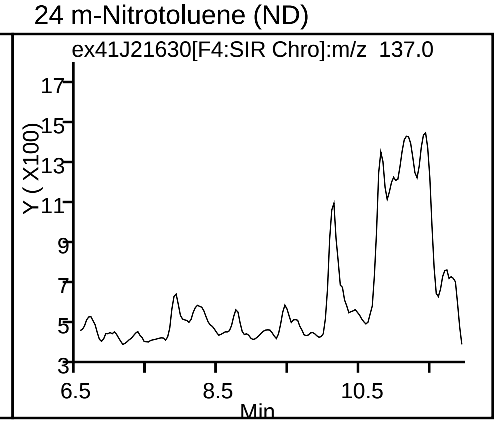
22 o-Nitrotoluene (ND)



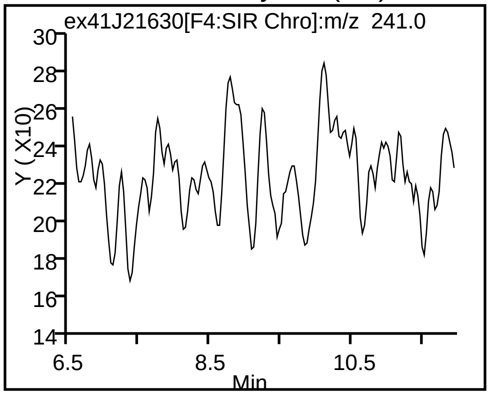
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP04 SB001   Lab Sample ID: 280-21683-88

Matrix: Solid   Lab File ID: ex41J21631.d

Analysis Method: 8321B   Date Collected: 10/16/2011 13:20

Extraction Method: 8330B   Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.59(g)   Date Analyzed: 11/02/2011 03:25

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.094	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.024	U	0.094	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.094	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.094	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.094	0.024	0.010
2691-41-0	HMX	0.012	U	0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.094	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.094	0.012	0.0099
78-11-5	PETN	0.012	U	0.094	0.012	0.0049
121-82-4	RDX	0.012	U	0.094	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.094	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21631.d		
Lims ID:	280-21683-A-88-C	Client ID:	SB001
Inject. Date:	02-Nov-2011 03:25:15	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-88-C 280-0002689-155		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	91
Lims Batch ID:	94194	Lims Sample ID:	155
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:24	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		626812	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2006813	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1247805	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	491016	79.6			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							
15 2,3-Dinitrotoluene										1
3	182.0		6.533							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.231	-0.030		3527148	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

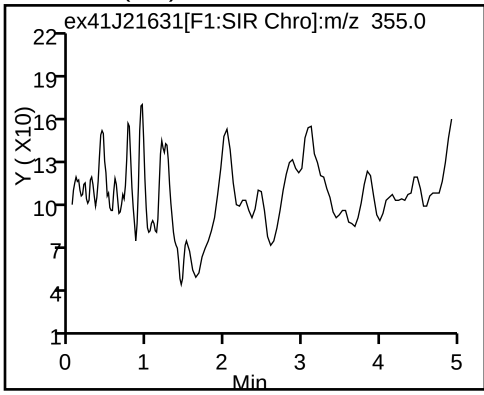
QC Flag Legend

Processing Flags
1 - Missing Peaks

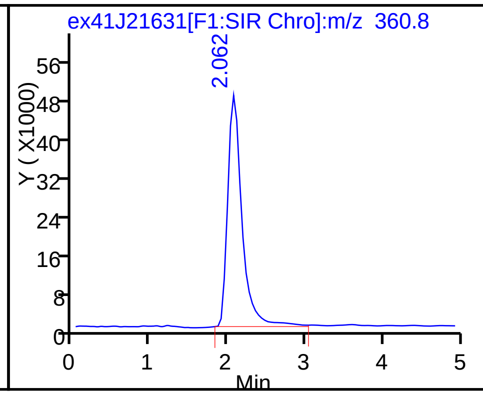
Report Date: 02-Nov-2011 06:54:31 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21631.d

Injection Date:	02-Nov-2011 03:25:15	Limit Group:	LC - 8321A Expl
Client ID:	SB001	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	155
Operator ID:		Injection Vol:	40.00 ul

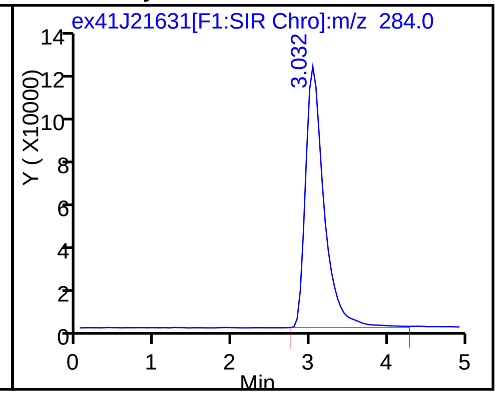
2 HMX (ND)



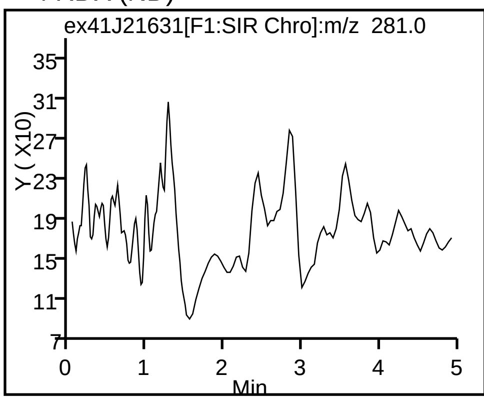
* 1 HMX-13C4



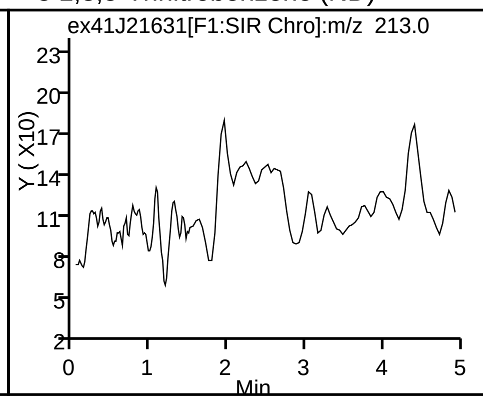
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



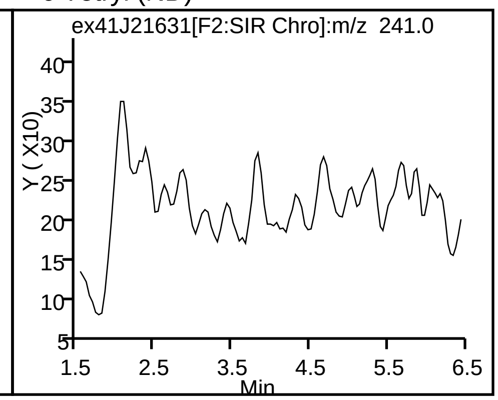
4 RDX (ND)



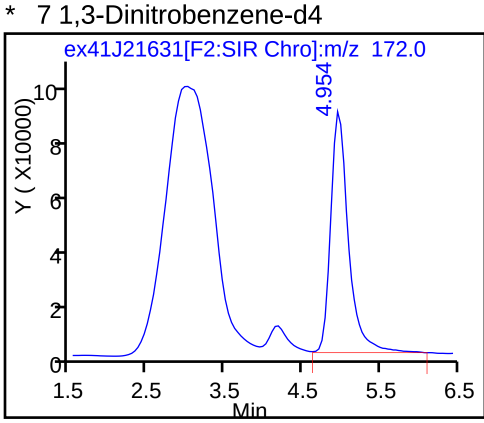
5 1,3,5-Trinitrobenzene (ND)



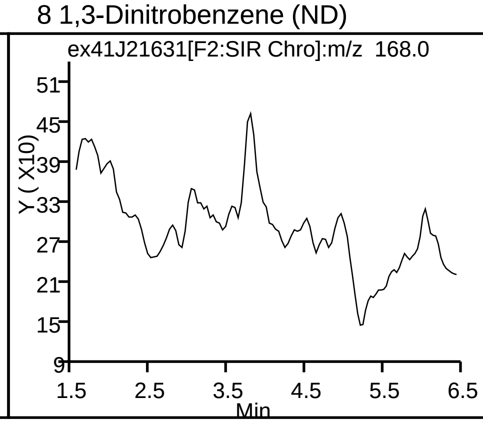
6 Tetryl (ND)



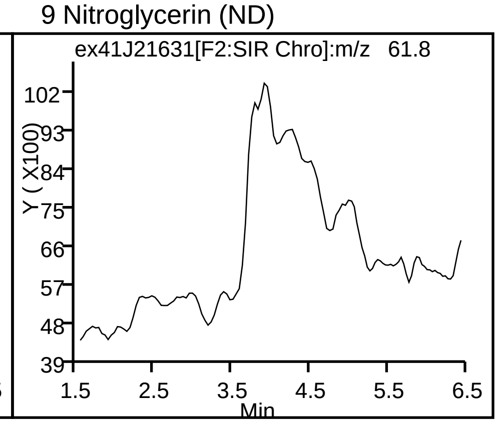
* 7 1,3-Dinitrobenzene-d4



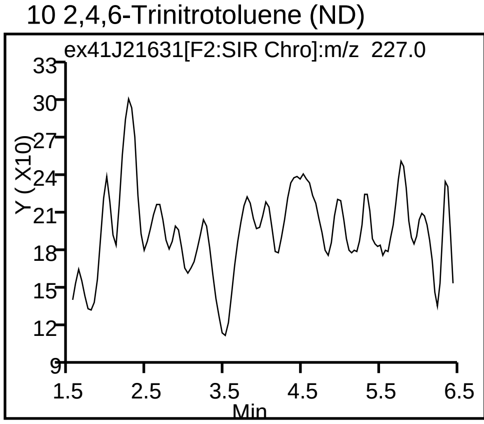
8 1,3-Dinitrobenzene (ND)



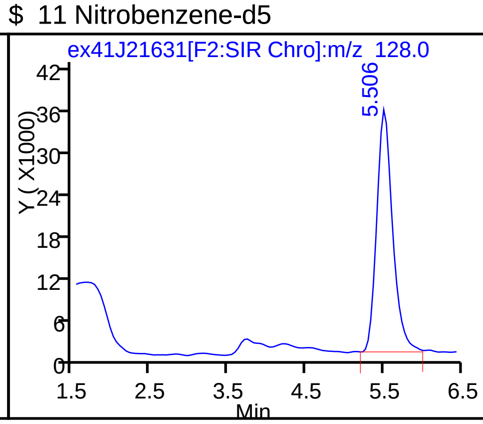
9 Nitroglycerin (ND)



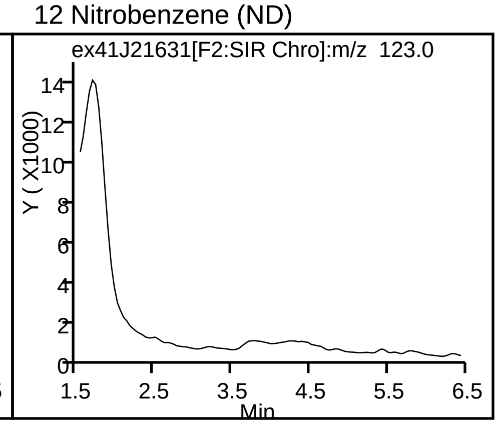
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

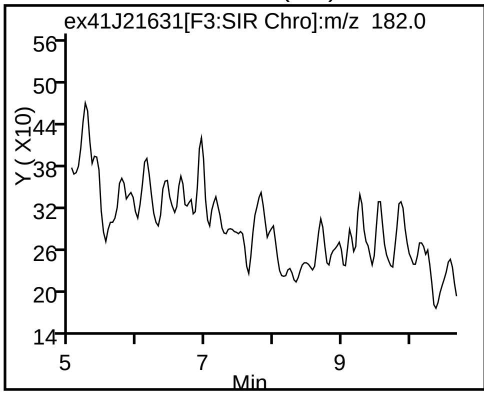


12 Nitrobenzene (ND)

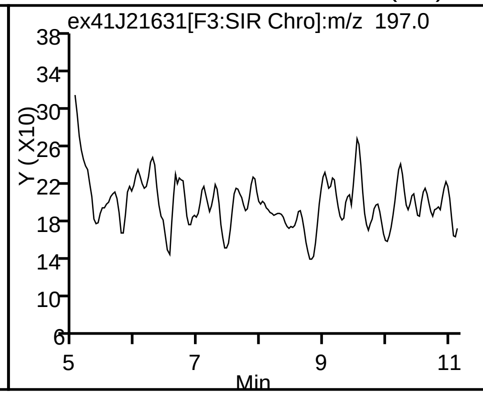


Report Date: 02-Nov-2011 06:54:31 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21631.d

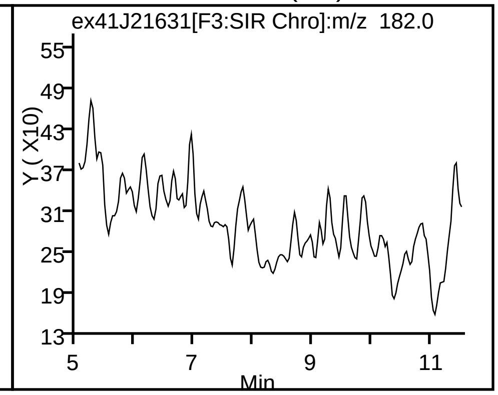
13 3,4-Dinitrotoluene (ND)



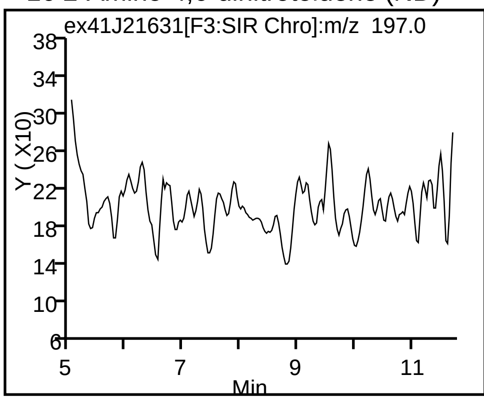
14 4-Amino-2,6-dinitrotoluene (ND)



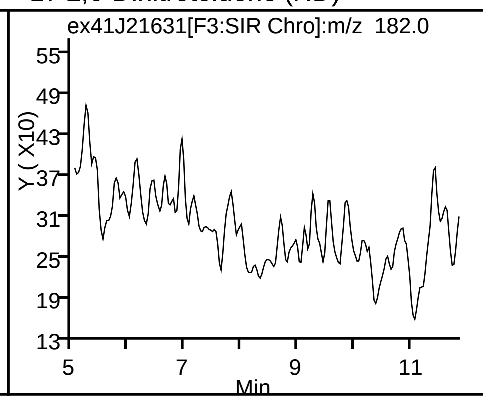
15 2,3-Dinitrotoluene (ND)



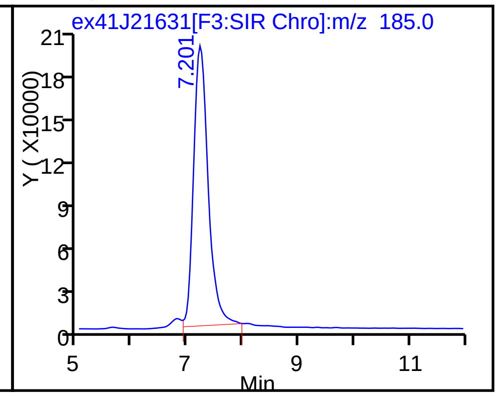
16 2-Amino-4,6-dinitrotoluene (ND)



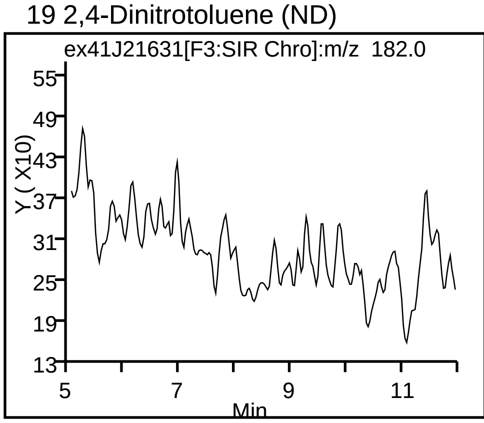
17 2,6-Dinitrotoluene (ND)



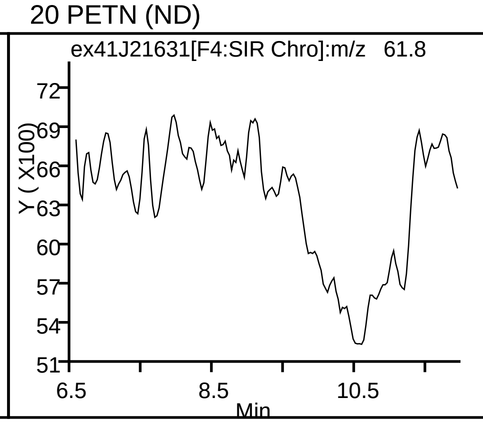
* 18 2,4-dinitrotoluene-d3



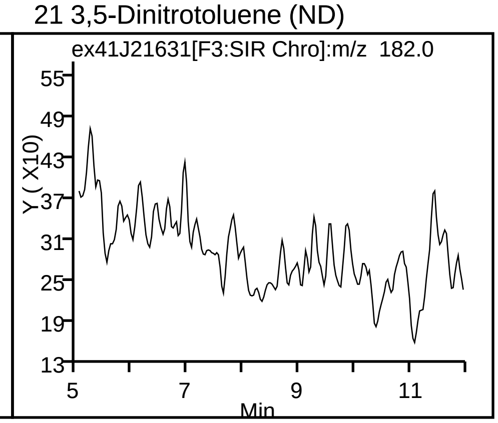
19 2,4-Dinitrotoluene (ND)



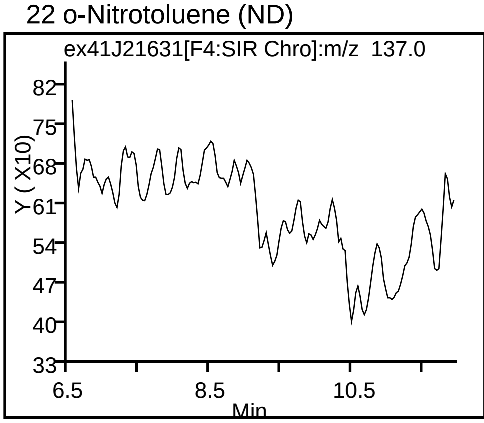
20 PETN (ND)



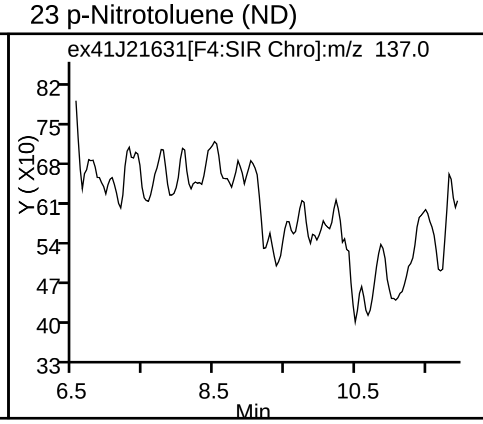
21 3,5-Dinitrotoluene (ND)



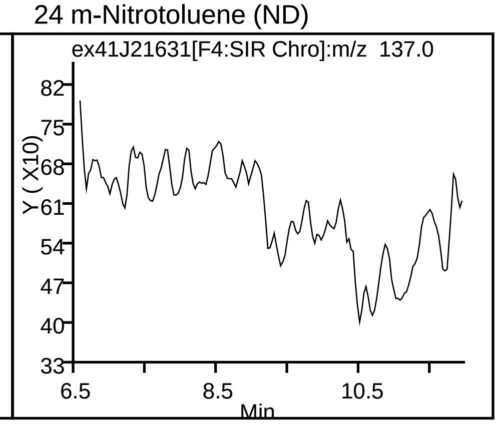
22 o-Nitrotoluene (ND)



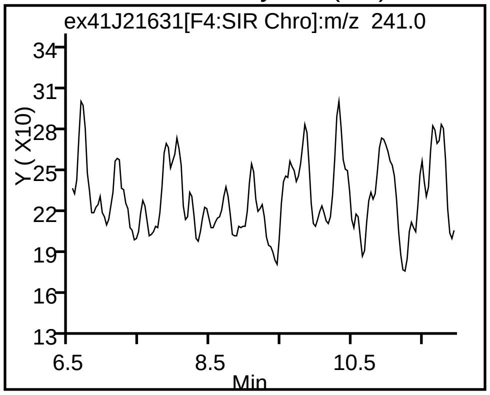
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP04 SB002   Lab Sample ID: 280-21683-89

Matrix: Solid   Lab File ID: ex41J21633.d

Analysis Method: 8321B   Date Collected: 10/16/2011 13:25

Extraction Method: 8330B   Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.18(g)   Date Analyzed: 11/02/2011 03:52

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	86		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21633.d		
Lims ID:	280-21683-A-89-C	Client ID:	SB002
Inject. Date:	02-Nov-2011 03:52:40	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-89-C 280-0002689-157		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	92
Lims Batch ID:	94194	Lims Sample ID:	157
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:31	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:52:51

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		509796	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1606803	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1221831	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										1
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	515341	85.4			
12 Nitrobenzene										1
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4267005	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0		8.284							
23 p-Nitrotoluene										
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

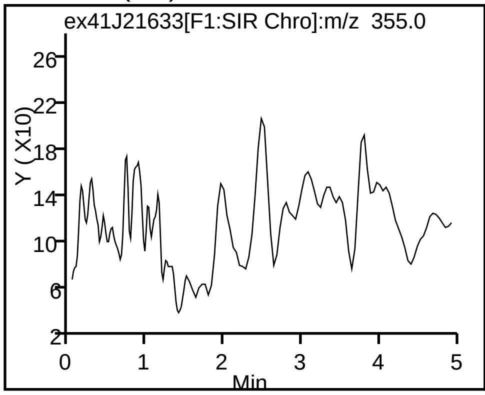
QC Flag Legend

Processing Flags
1 - Missing Peaks

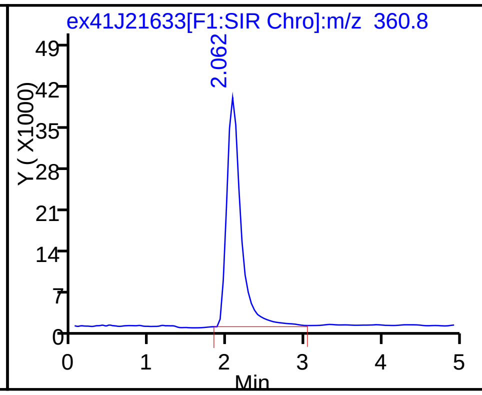
Report Date: 02-Nov-2011 06:54:33 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21633.d

Injection Date:	02-Nov-2011 03:52:40	Limit Group:	LC - 8321A Expl
Client ID:	SB002	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	157
Operator ID:		Injection Vol:	40.00 ul

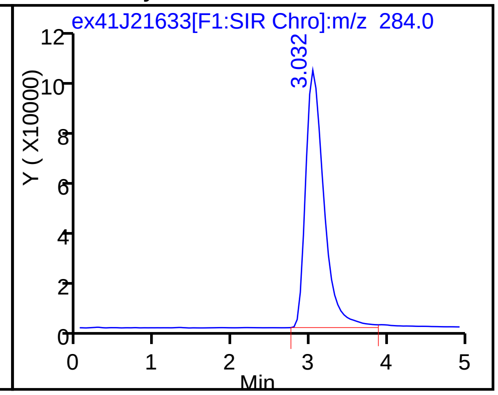
2 HMX (ND)



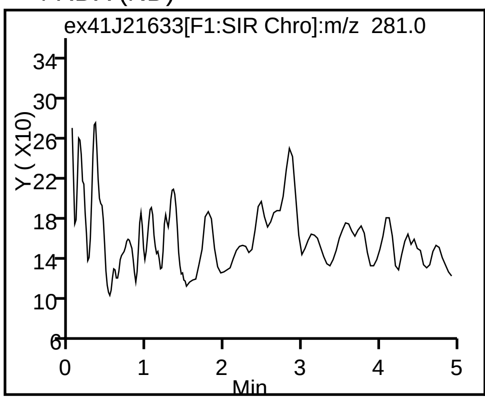
* 1 HMX-13C4



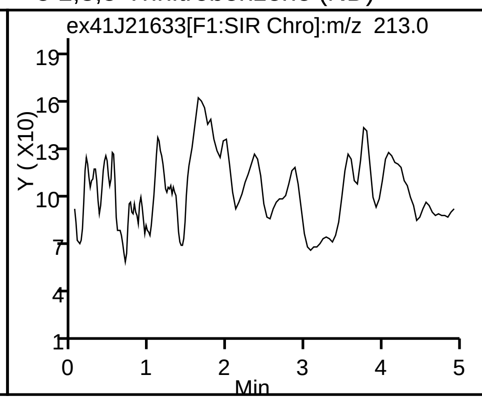
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



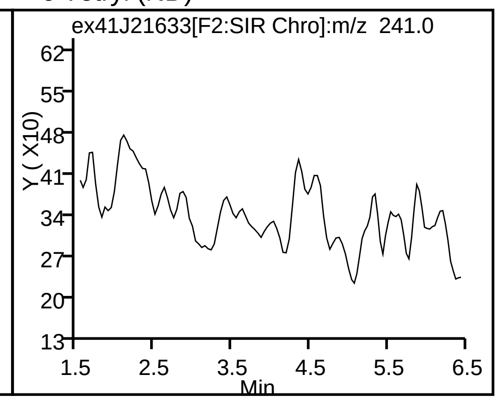
4 RDX (ND)



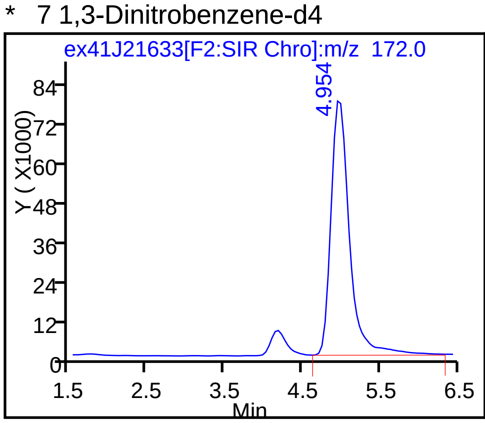
5 1,3,5-Trinitrobenzene (ND)



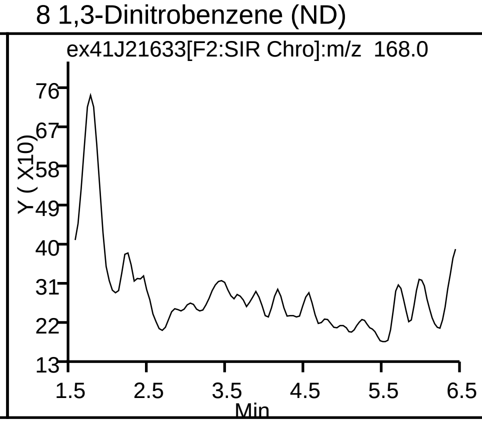
6 Tetryl (ND)



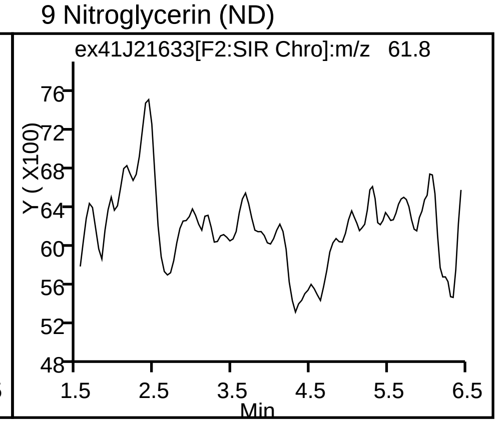
* 7 1,3-Dinitrobenzene-d4



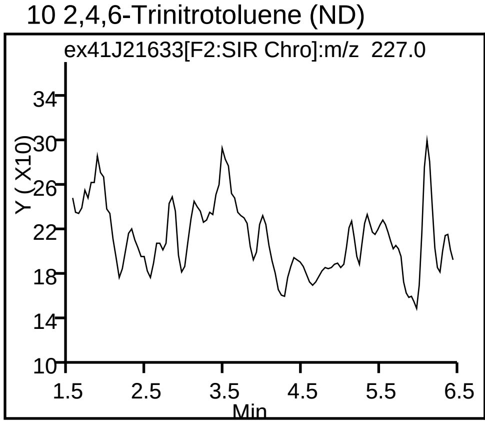
8 1,3-Dinitrobenzene (ND)



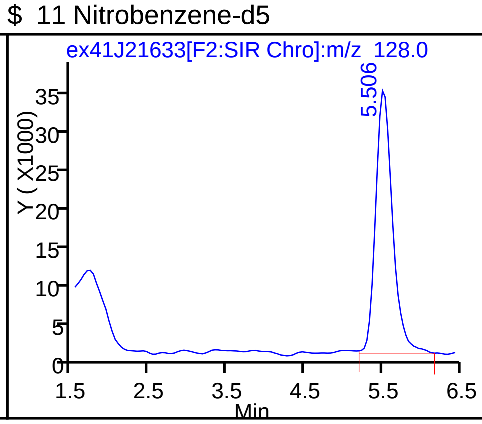
9 Nitroglycerin (ND)



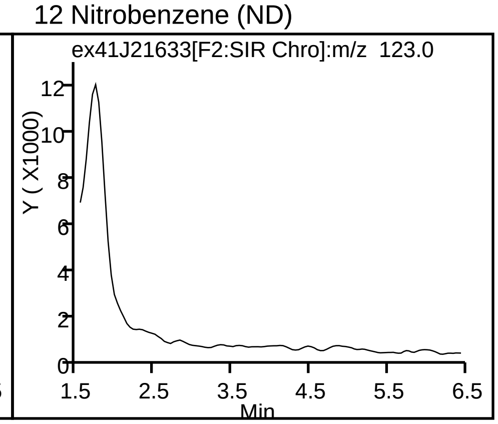
10 2,4,6-Trinitrotoluene (ND)



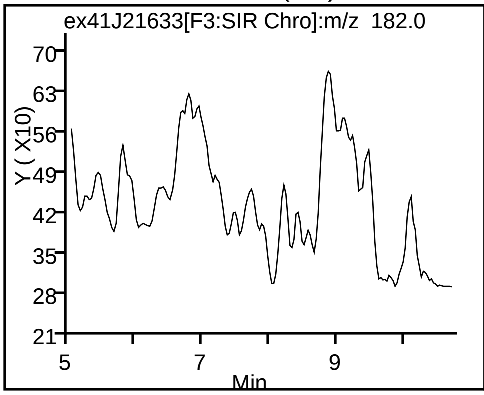
$ 11 Nitrobenzene-d5



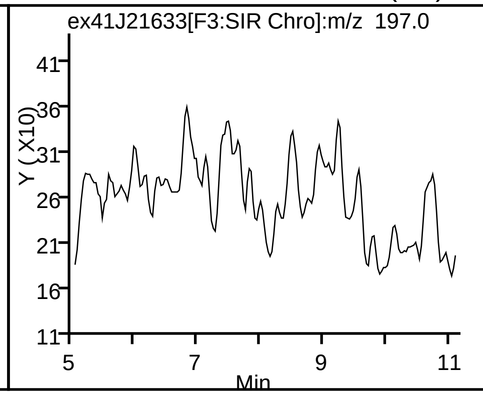
12 Nitrobenzene (ND)



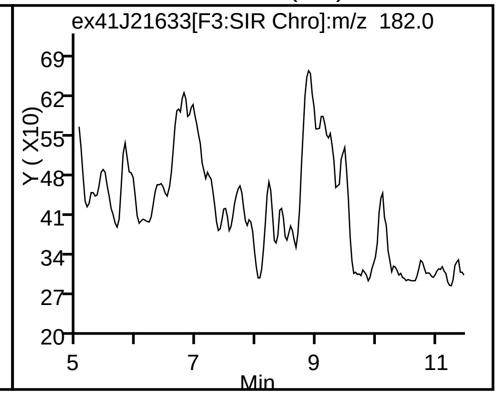
13 3,4-Dinitrotoluene (ND)



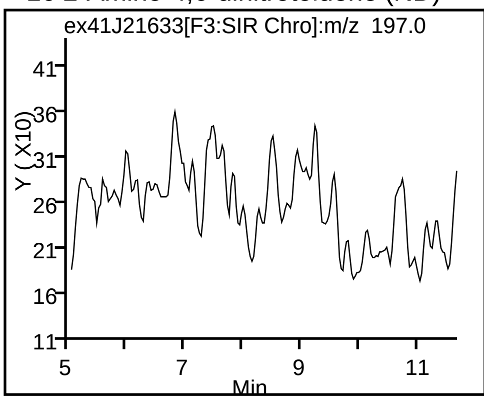
14 4-Amino-2,6-dinitrotoluene (ND)



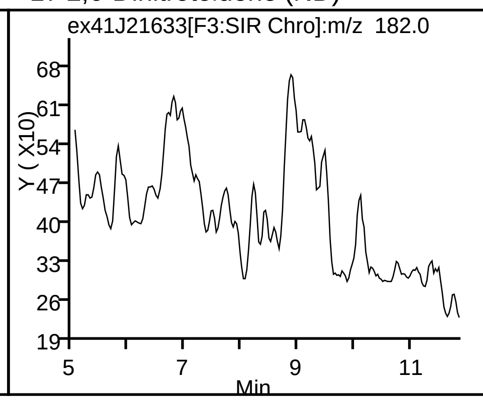
15 2,3-Dinitrotoluene (ND)



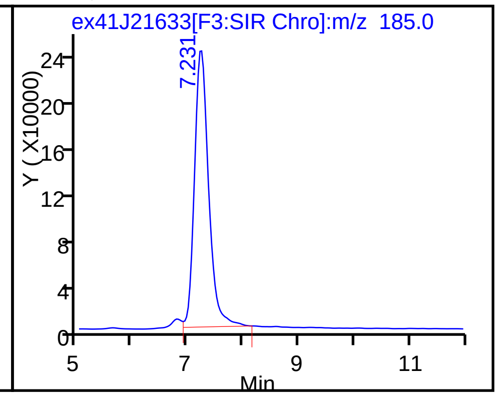
16 2-Amino-4,6-dinitrotoluene (ND)



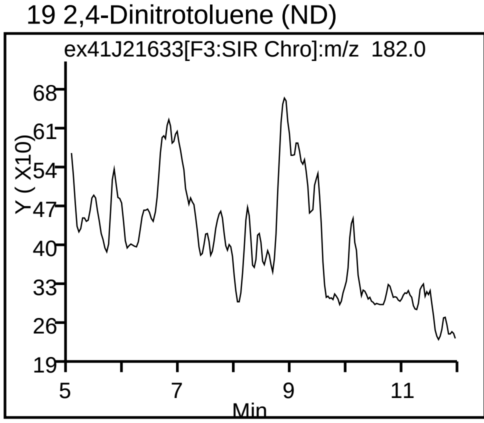
17 2,6-Dinitrotoluene (ND)



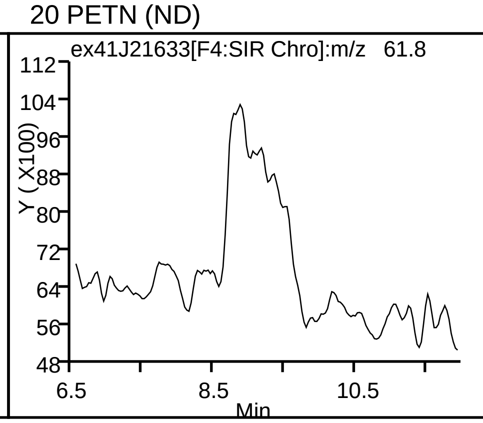
* 18 2,4-dinitrotoluene-d3



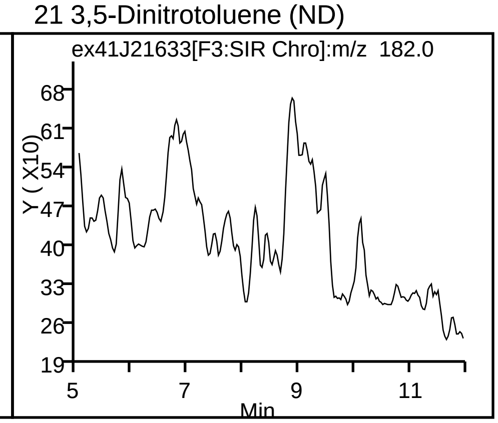
19 2,4-Dinitrotoluene (ND)



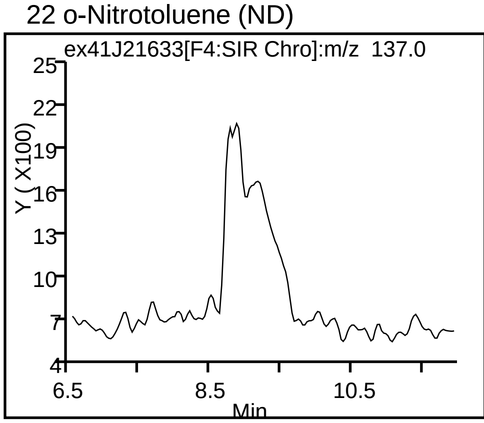
20 PETN (ND)



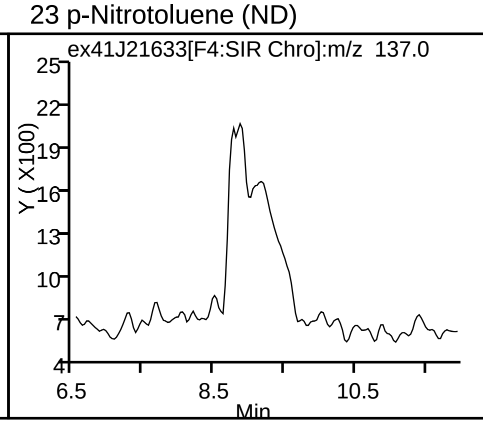
21 3,5-Dinitrotoluene (ND)



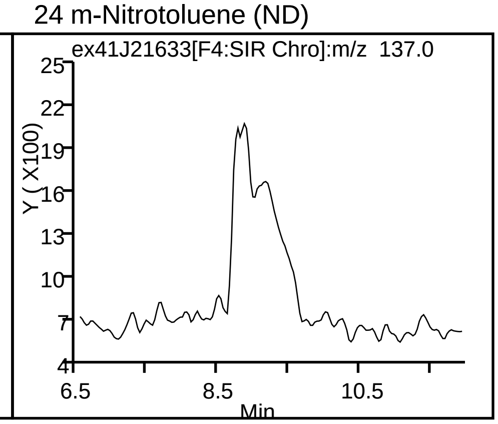
22 o-Nitrotoluene (ND)



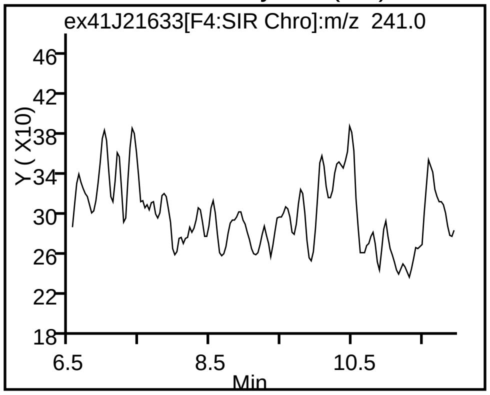
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP06 SB005 | Lab Sample ID: 280-21683-90

Matrix: Solid | Lab File ID: ex41J21634.d

Analysis Method: 8321B | Date Collected: 10/16/2011 13:40

Extraction Method: 8330B | Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.85(g) | Date Analyzed: 11/02/2011 04:06

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.092	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.092	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.092	0.012	0.0046
121-14-2	2,4-Dinitrotoluene	0.012	U	0.092	0.012	0.0075
606-20-2	2,6-Dinitrotoluene	0.023	U	0.092	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.092	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.092	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.092	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.092	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.092	0.023	0.010
2691-41-0	HMX	0.012	U	0.092	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.092	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.092	0.012	0.0097
78-11-5	PETN	0.012	U	0.092	0.012	0.0047
121-82-4	RDX	0.012	U	0.092	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.092	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	86		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21634.d		
Lims ID:	280-21683-B-90-B	Client ID:	SB005
Inject. Date:	02-Nov-2011 04:06:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-90-B 280-0002689-158		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	93
Lims Batch ID:	94194	Lims Sample ID:	158
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:31	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		607466	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1966311	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1275489	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										1
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	532569	84.5			
12 Nitrobenzene										1
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.231	-0.030		3872145	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

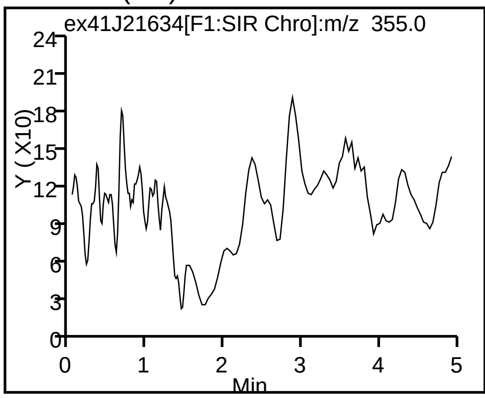
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:54:34 Chrom Revision: 1.2 13-Jul-2011 10:43:06

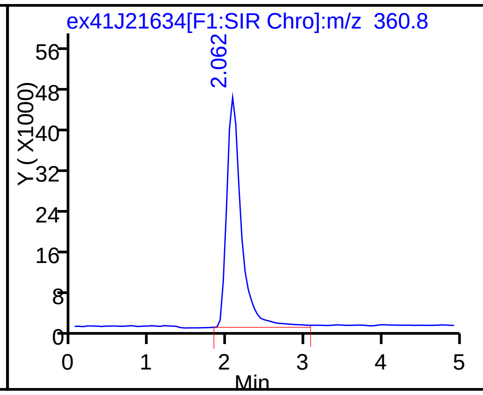
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21634.d

Injection Date:	02-Nov-2011 04:06:30	Limit Group:	LC - 8321A Expl
Client ID:	SB005	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	158
Operator ID:		Injection Vol:	40.00 ul

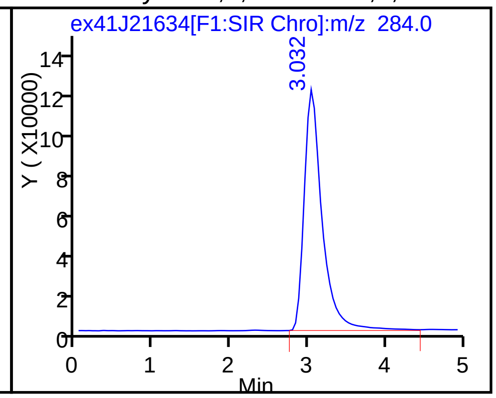
2 HMX (ND)



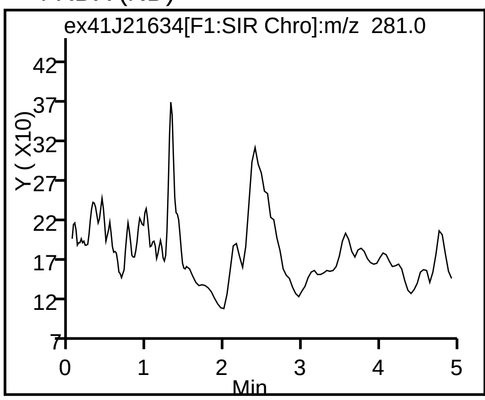
* 1 HMX-13C4



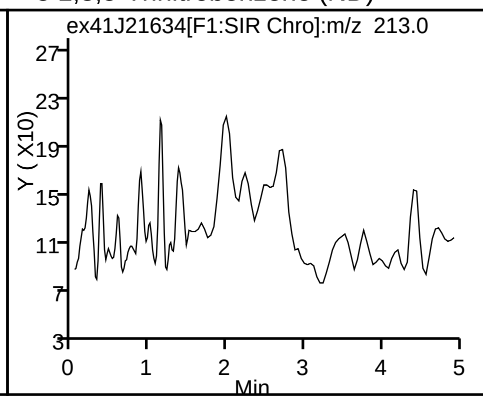
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



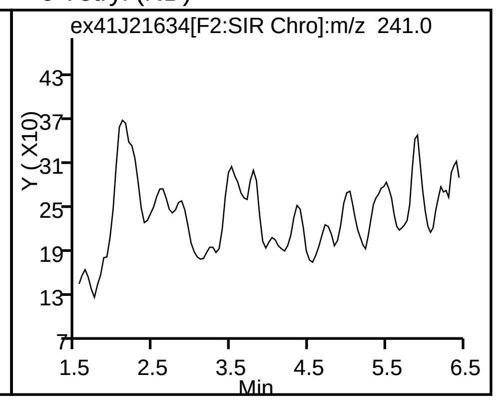
4 RDX (ND)



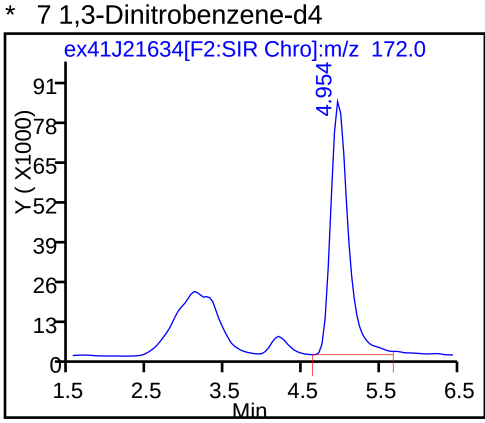
5 1,3,5-Trinitrobenzene (ND)



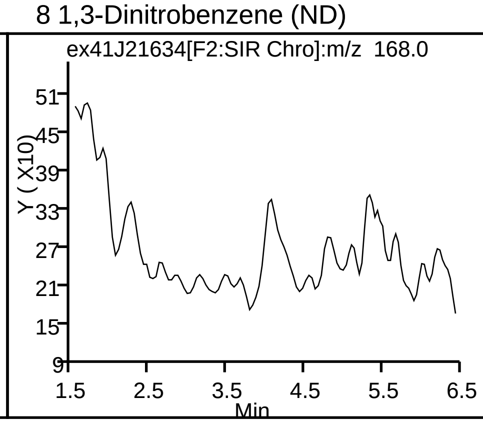
6 Tetryl (ND)



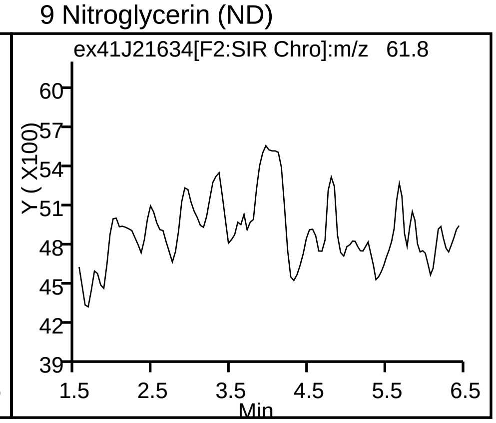
* 7 1,3-Dinitrobenzene-d4



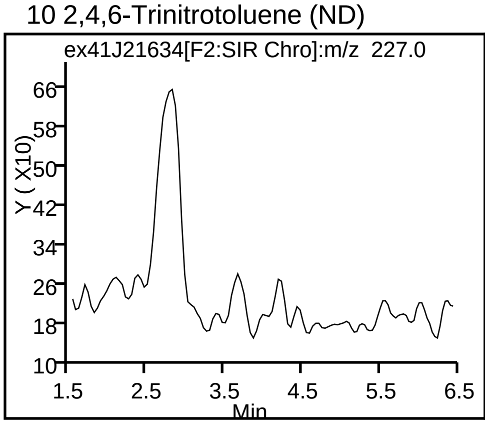
8 1,3-Dinitrobenzene (ND)



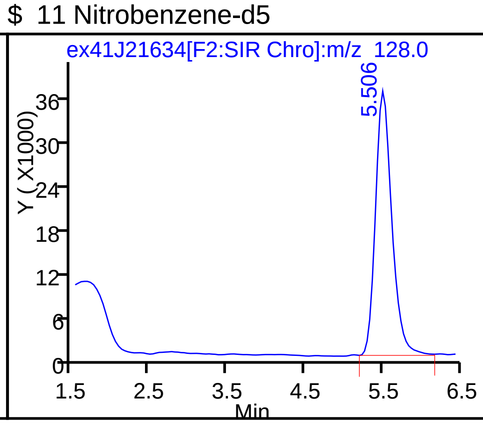
9 Nitroglycerin (ND)



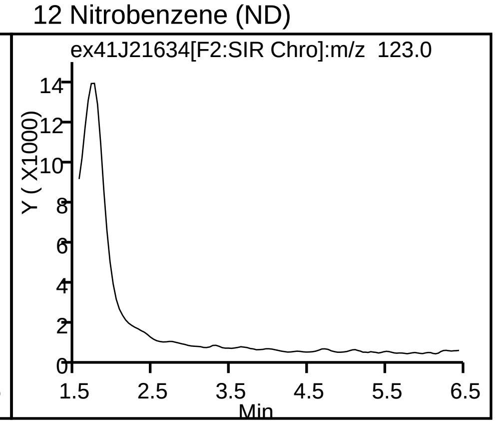
10 2,4,6-Trinitrotoluene (ND)



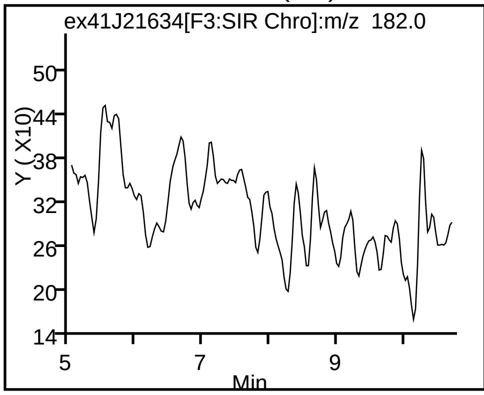
$ 11 Nitrobenzene-d5



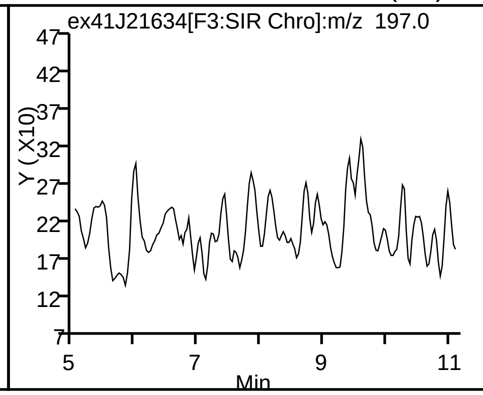
12 Nitrobenzene (ND)



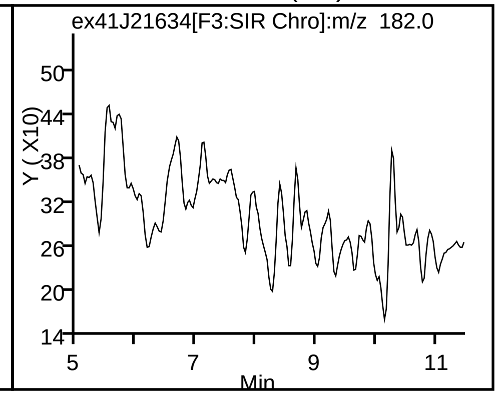
13 3,4-Dinitrotoluene (ND)



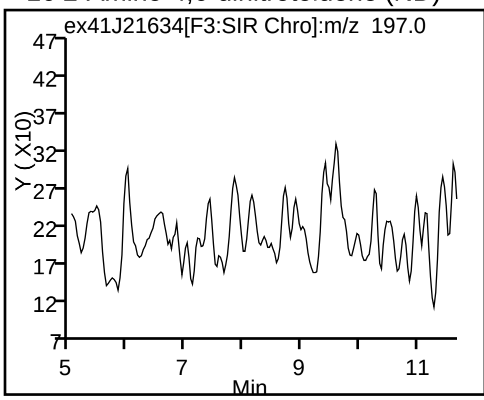
14 4-Amino-2,6-dinitrotoluene (ND)



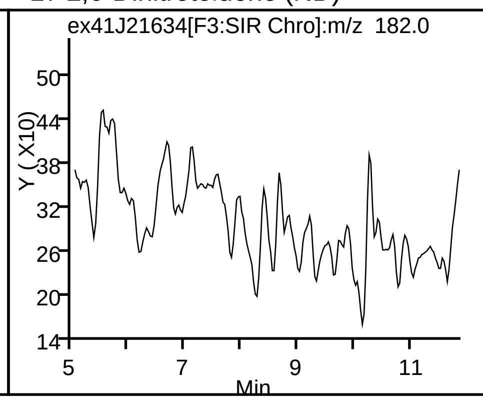
15 2,3-Dinitrotoluene (ND)



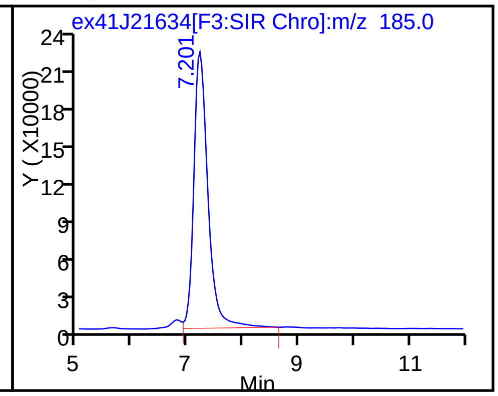
16 2-Amino-4,6-dinitrotoluene (ND)



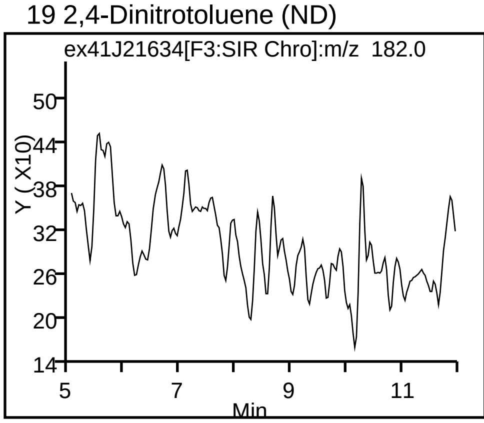
17 2,6-Dinitrotoluene (ND)



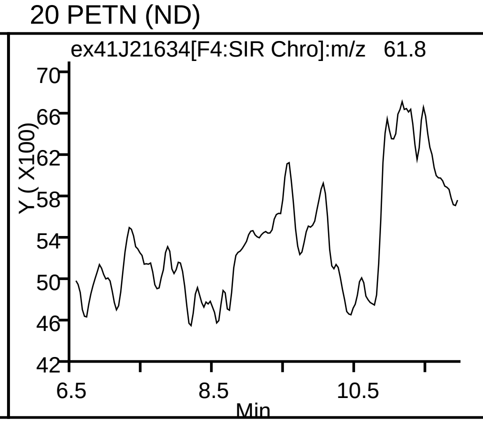
* 18 2,4-dinitrotoluene-d3



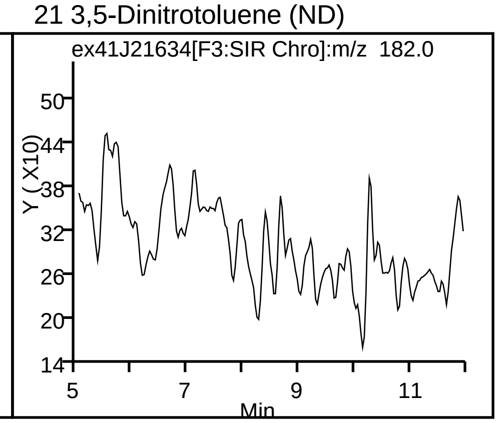
19 2,4-Dinitrotoluene (ND)



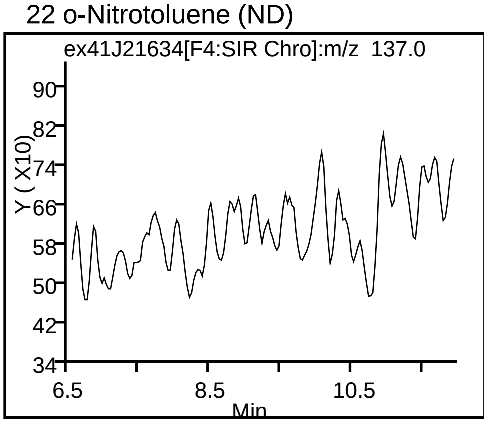
20 PETN (ND)



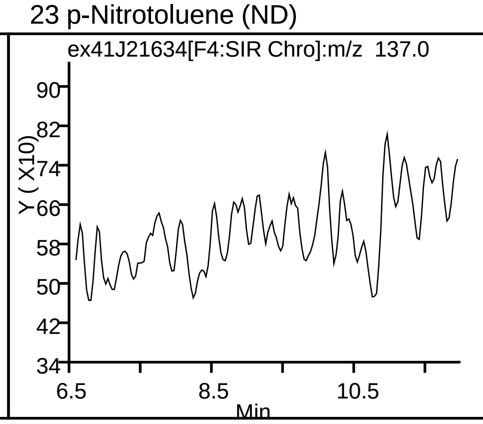
21 3,5-Dinitrotoluene (ND)



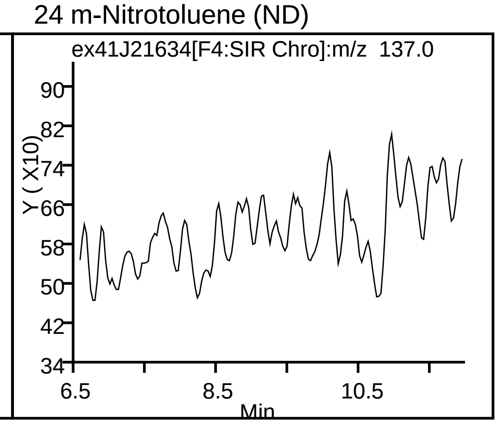
22 o-Nitrotoluene (ND)



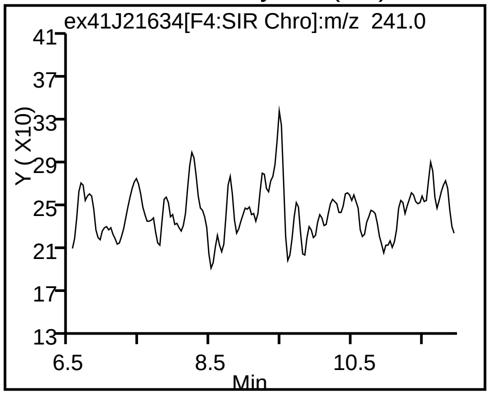
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP06 SB006   Lab Sample ID: 280-21683-91

Matrix: Solid   Lab File ID: ex41J21635.d

Analysis Method: 8321B   Date Collected: 10/16/2011 13:43

Extraction Method: 8330B   Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.13(g)   Date Analyzed: 11/02/2011 04:20

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	73		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21635.d		
Lims ID:	280-21683-A-91-C	Client ID:	SB006
Inject. Date:	02-Nov-2011 04:20:04	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-91-C 280-0002689-159		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	94
Lims Batch ID:	94194	Lims Sample ID:	159
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:31	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		576442	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1983051	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1459153	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	523364	72.5			
12 Nitrobenzene										
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.231	-0.030		3647760	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

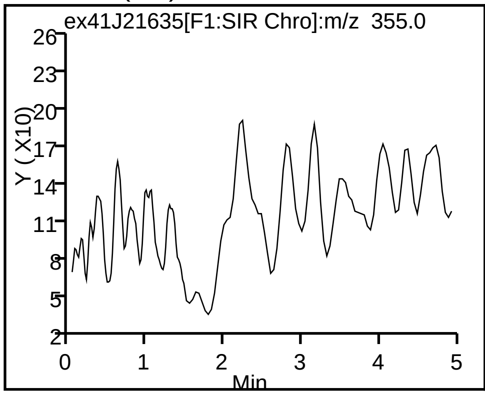
QC Flag Legend

Processing Flags
1 - Missing Peaks

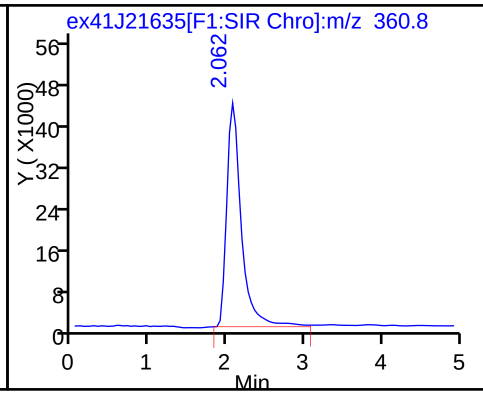
Report Date: 02-Nov-2011 06:54:35 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21635.d

Injection Date:	02-Nov-2011 04:20:04	Limit Group:	LC - 8321A Expl
Client ID:	SB006	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	159
Operator ID:		Injection Vol:	40.00 ul

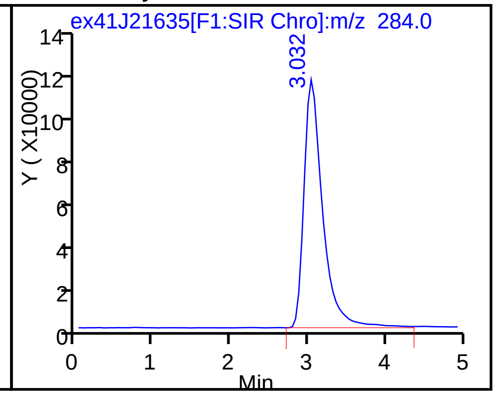
2 HMX (ND)



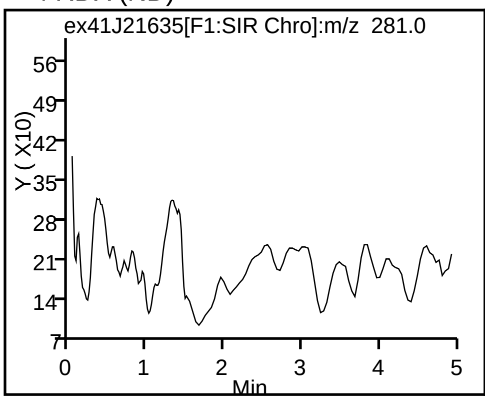
* 1 HMX-13C4



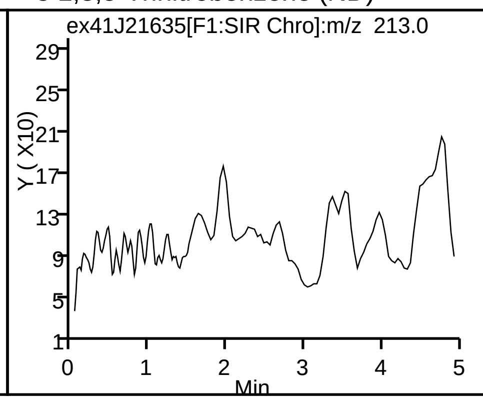
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



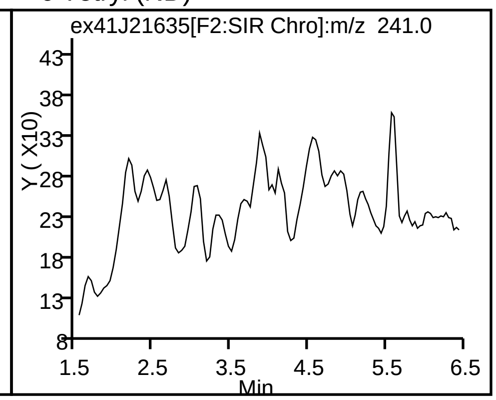
4 RDX (ND)



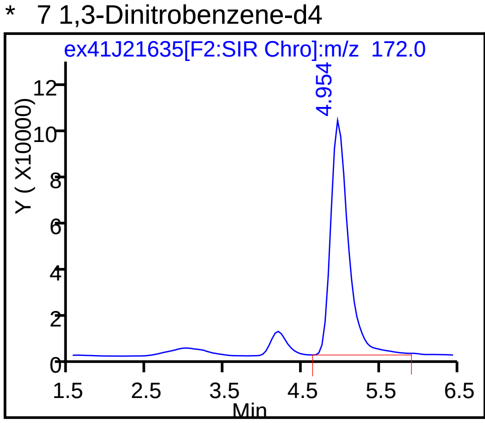
5 1,3,5-Trinitrobenzene (ND)



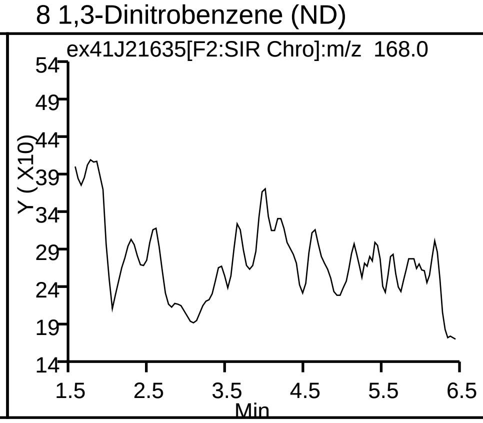
6 Tetryl (ND)



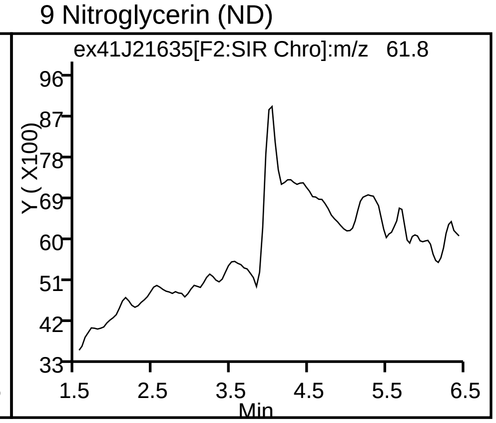
* 7 1,3-Dinitrobenzene-d4



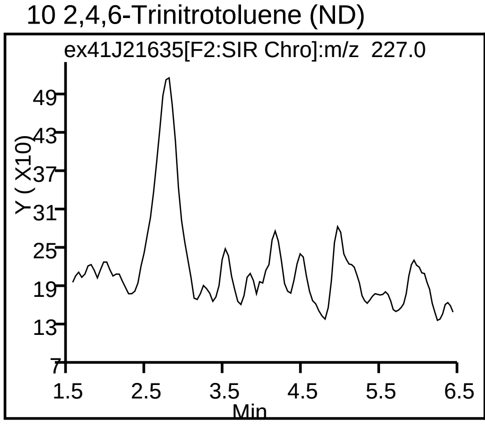
8 1,3-Dinitrobenzene (ND)



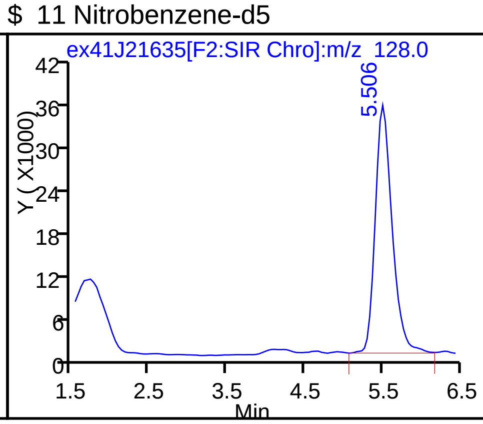
9 Nitroglycerin (ND)



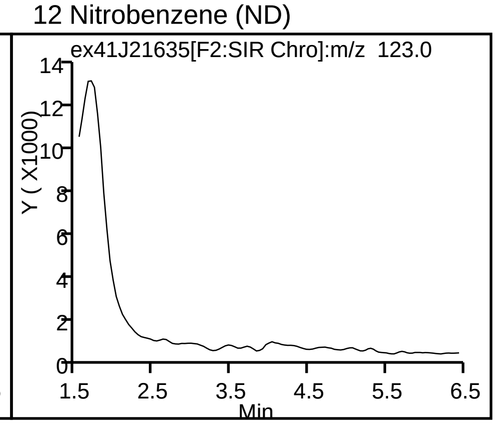
10 2,4,6-Trinitrotoluene (ND)



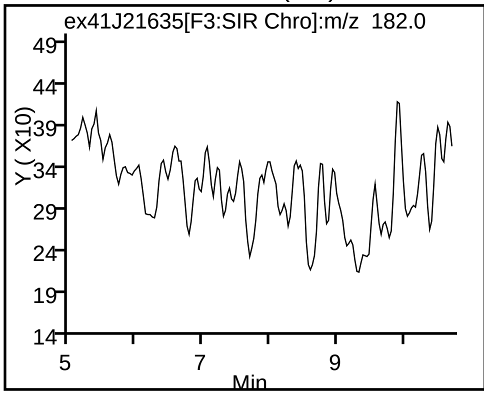
$ 11 Nitrobenzene-d5



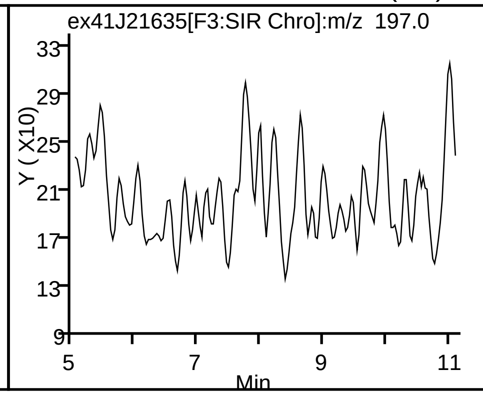
12 Nitrobenzene (ND)



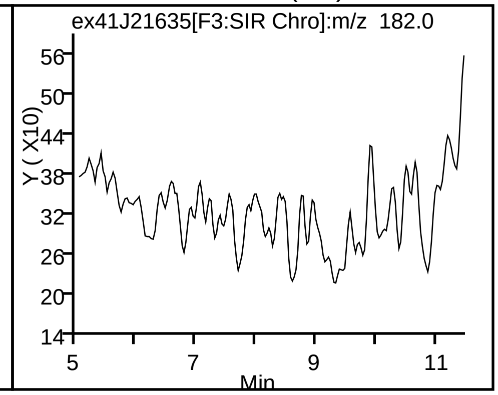
13 3,4-Dinitrotoluene (ND)



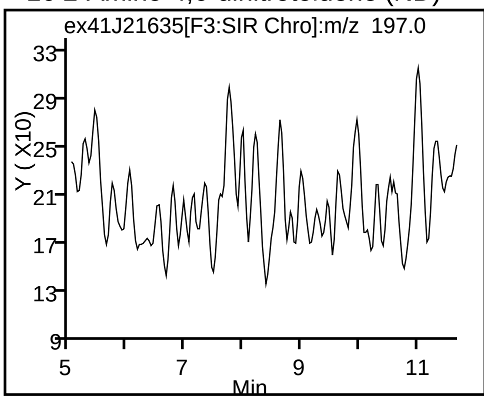
14 4-Amino-2,6-dinitrotoluene (ND)



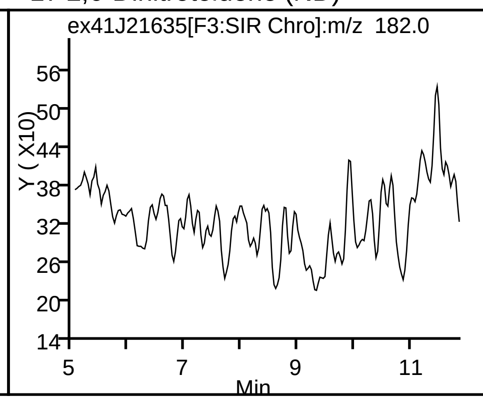
15 2,3-Dinitrotoluene (ND)



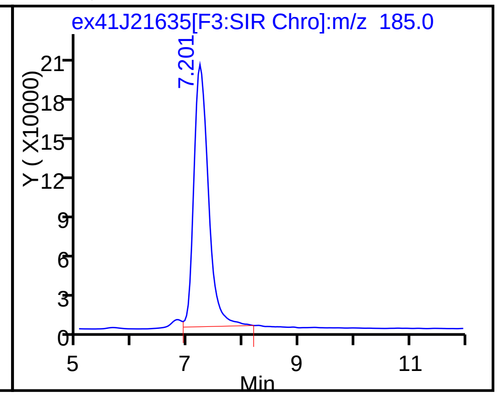
16 2-Amino-4,6-dinitrotoluene (ND)



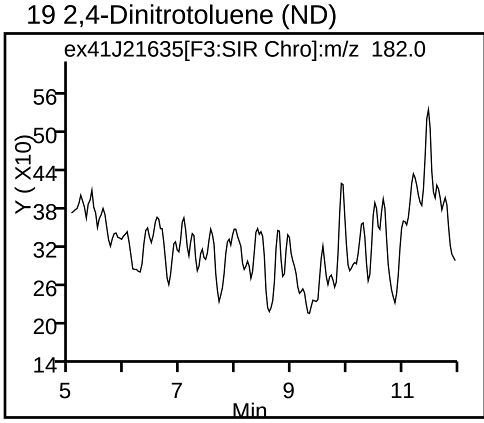
17 2,6-Dinitrotoluene (ND)



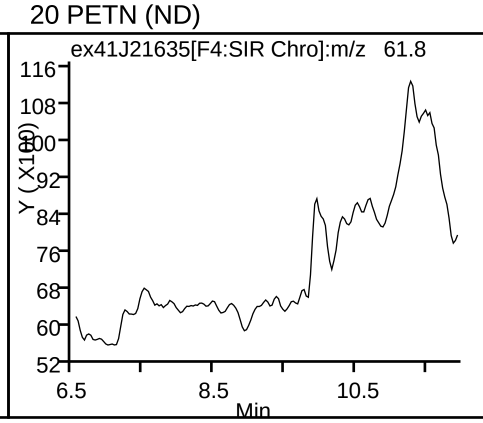
* 18 2,4-dinitrotoluene-d3



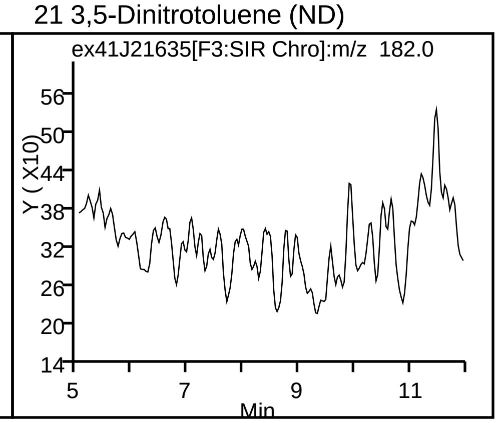
19 2,4-Dinitrotoluene (ND)



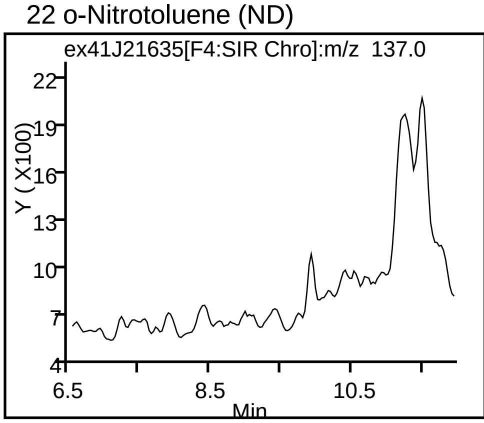
20 PETN (ND)



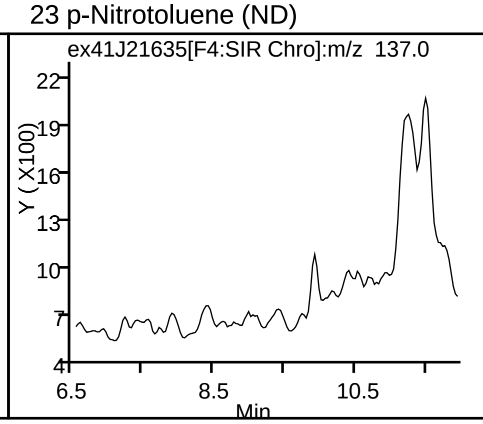
21 3,5-Dinitrotoluene (ND)



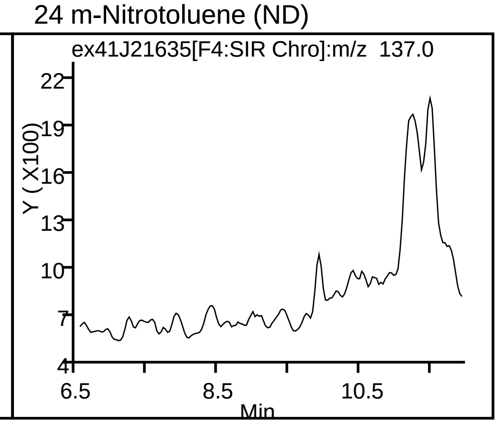
22 o-Nitrotoluene (ND)



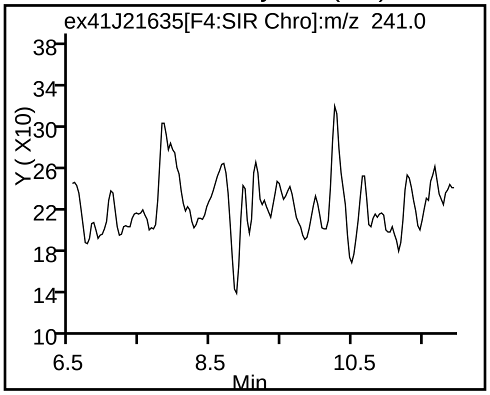
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP05 SB003   Lab Sample ID: 280-21683-92

Matrix: Solid   Lab File ID: ex41J21636.d

Analysis Method: 8321B   Date Collected: 10/16/2011 14:01

Extraction Method: 8330B   Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.13(g)   Date Analyzed: 11/02/2011 04:33

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21636.d		
Lims ID:	280-21683-B-92-B	Client ID:	SB003
Inject. Date:	02-Nov-2011 04:33:37	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-92-B 280-0002689-160		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	95
Lims Batch ID:	94194	Lims Sample ID:	160
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:31	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		584409	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1949172	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1505767	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										1
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	545955	73.3			
12 Nitrobenzene										1
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.231	-0.030		3867358	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

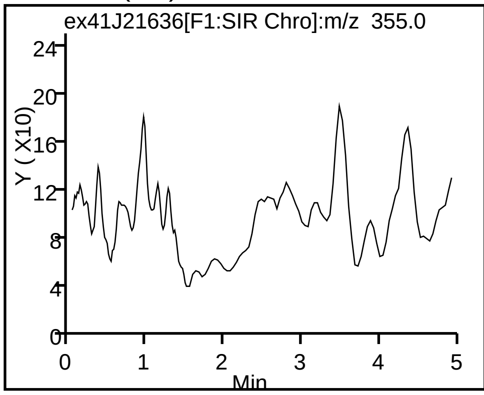
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:54:37 Chrom Revision: 1.2 13-Jul-2011 10:43:06

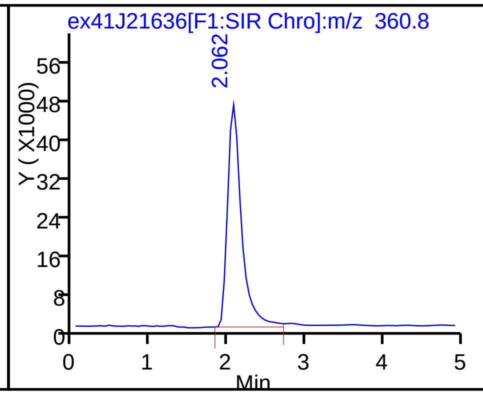
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21636.d

Injection Date:	02-Nov-2011 04:33:37	Limit Group:	LC - 8321A Expl
Client ID:	SB003	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	160
Operator ID:		Injection Vol:	40.00 ul

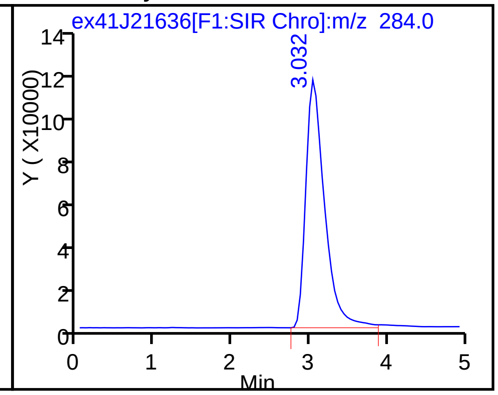
2 HMX (ND)



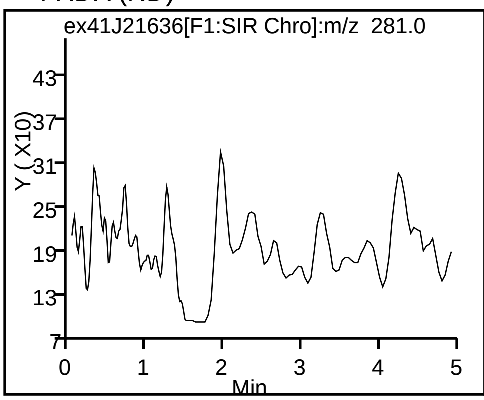
* 1 HMX-13C4



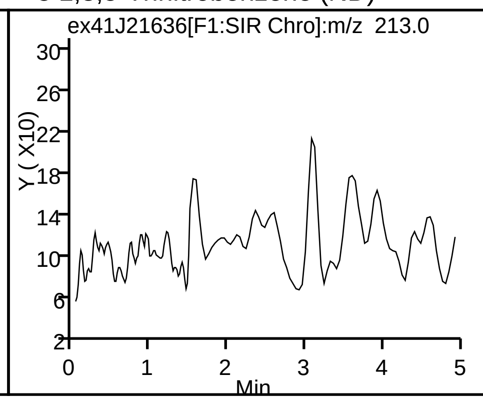
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



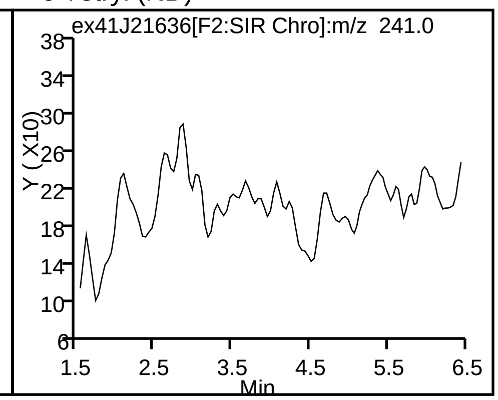
4 RDX (ND)



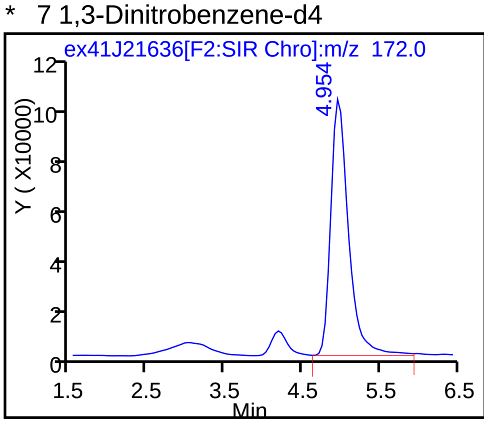
5 1,3,5-Trinitrobenzene (ND)



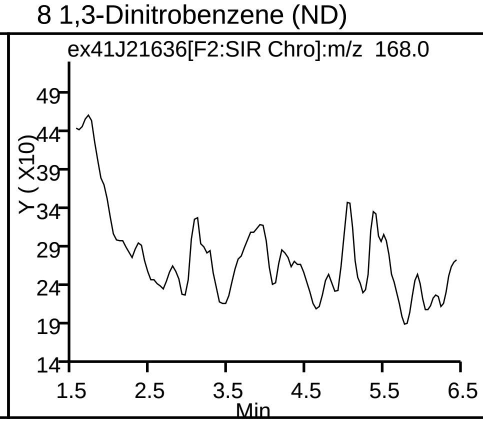
6 Tetryl (ND)



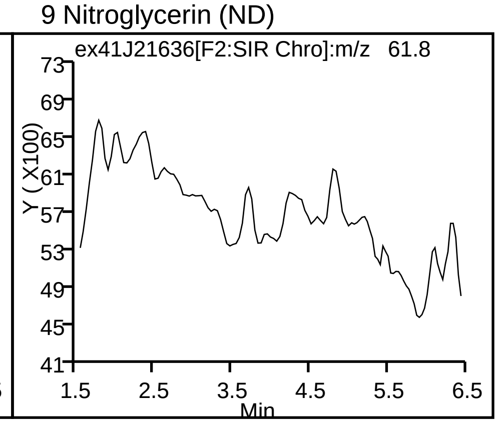
* 7 1,3-Dinitrobenzene-d4



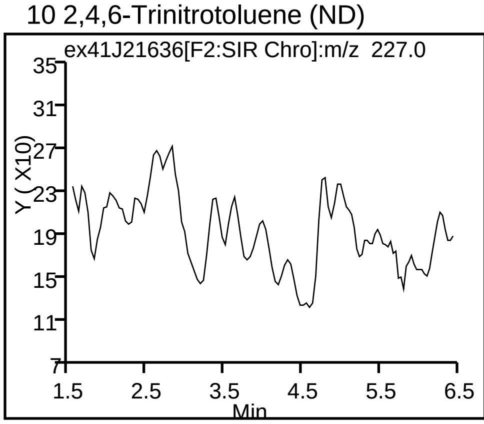
8 1,3-Dinitrobenzene (ND)



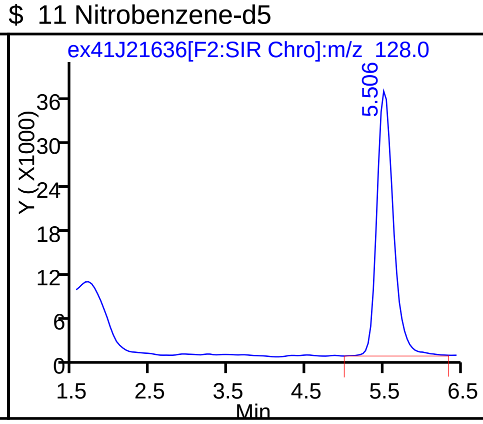
9 Nitroglycerin (ND)



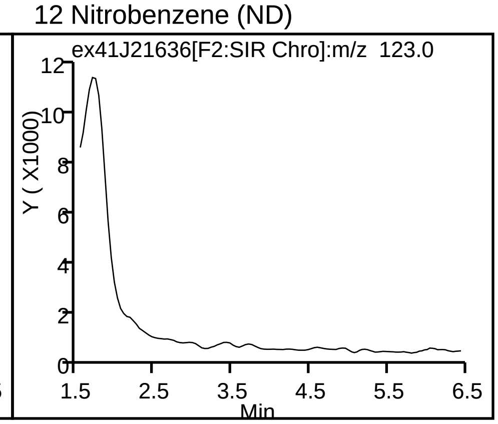
10 2,4,6-Trinitrotoluene (ND)



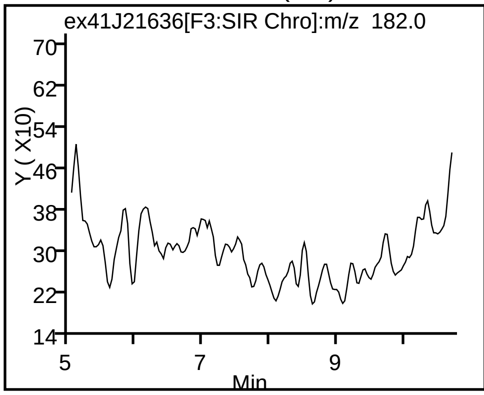
$ 11 Nitrobenzene-d5



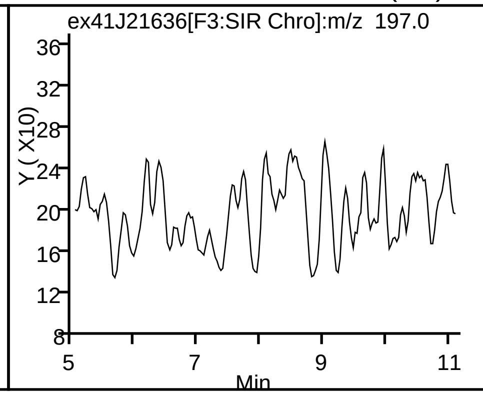
12 Nitrobenzene (ND)



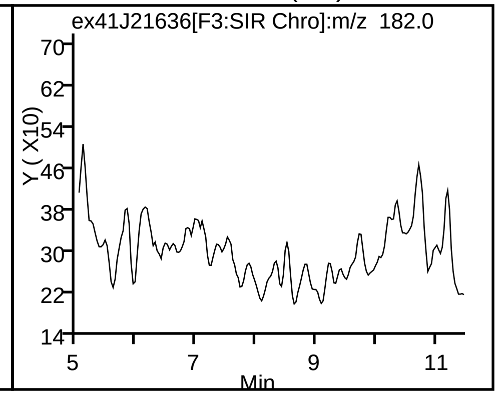
13 3,4-Dinitrotoluene (ND)



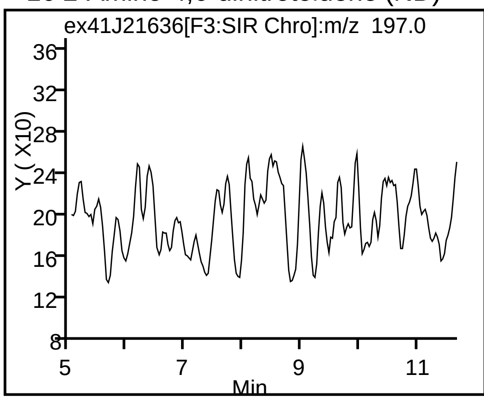
14 4-Amino-2,6-dinitrotoluene (ND)



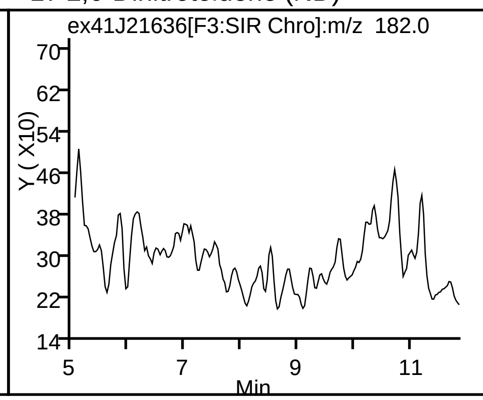
15 2,3-Dinitrotoluene (ND)



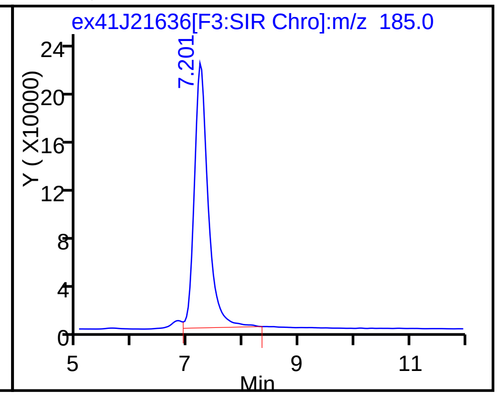
16 2-Amino-4,6-dinitrotoluene (ND)



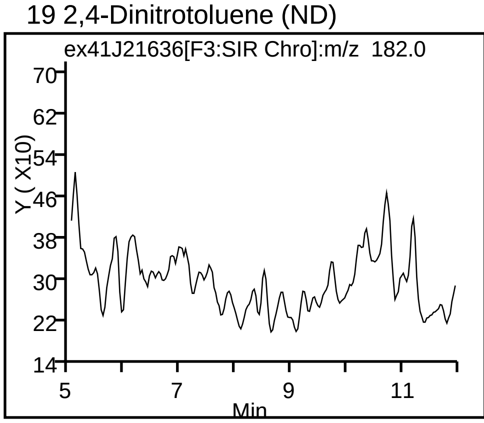
17 2,6-Dinitrotoluene (ND)



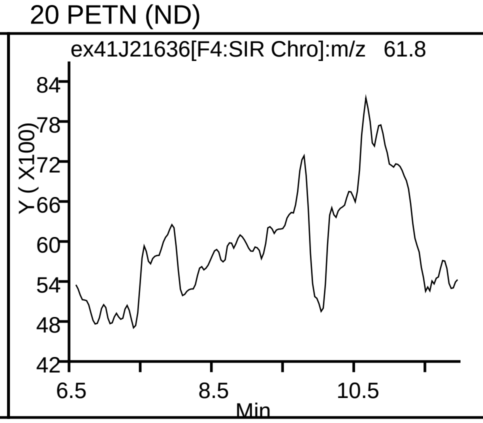
* 18 2,4-dinitrotoluene-d3



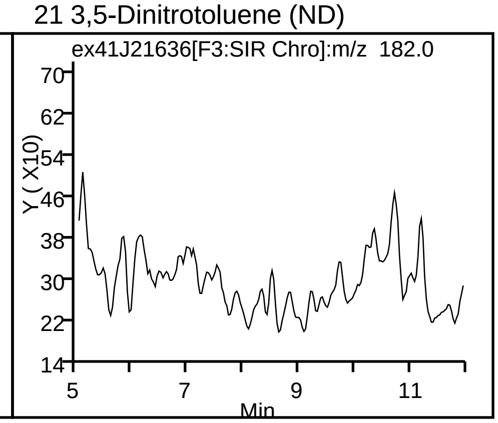
19 2,4-Dinitrotoluene (ND)



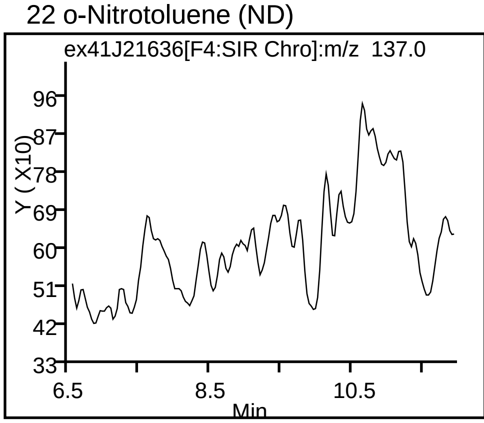
20 PETN (ND)



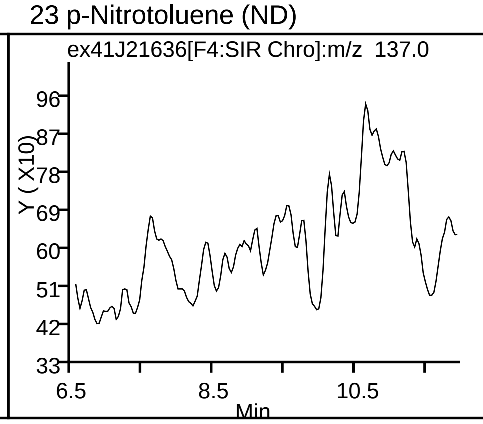
21 3,5-Dinitrotoluene (ND)



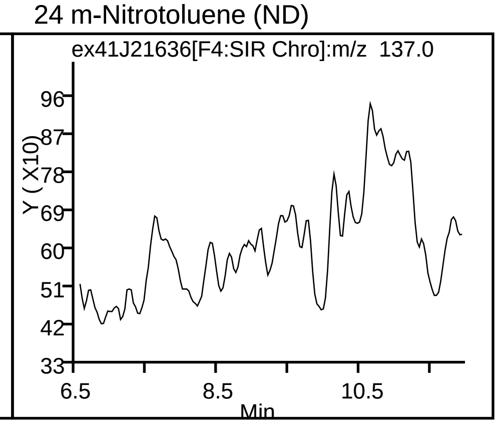
22 o-Nitrotoluene (ND)



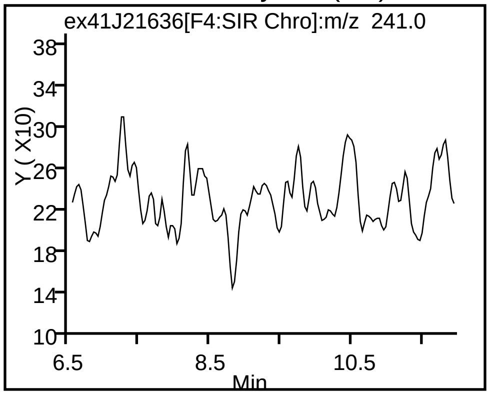
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP05 SB004 Lab Sample ID: 280-21683-93

Matrix: Solid Lab File ID: ex41J21637.d

Analysis Method: 8321B Date Collected: 10/16/2011 14:04

Extraction Method: 8330B Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.14(g) Date Analyzed: 11/02/2011 04:47

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	84		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21637.d		
Lims ID:	280-21683-A-93-C	Client ID:	SB004
Inject. Date:	02-Nov-2011 04:47:12	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-A-93-C 280-0002689-161		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	96
Lims Batch ID:	94194	Lims Sample ID:	161
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:31	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 02-Nov-2011 06:53:27

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		739560	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1955593	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1347828	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	553170	83.1			
12 Nitrobenzene										1
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Report Date: 02-Nov-2011 06:54:38 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21637.d

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.231	-0.030		3892997	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0		8.284							
23 p-Nitrotoluene										
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

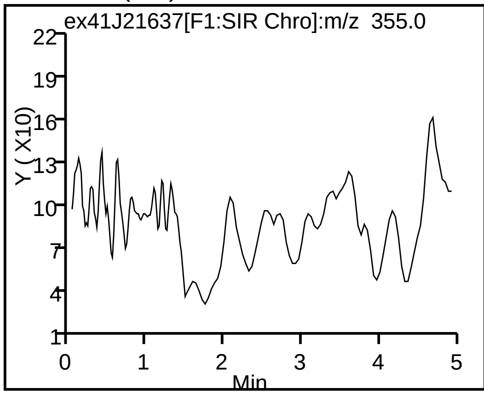
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:54:38 Chrom Revision: 1.2 13-Jul-2011 10:43:06

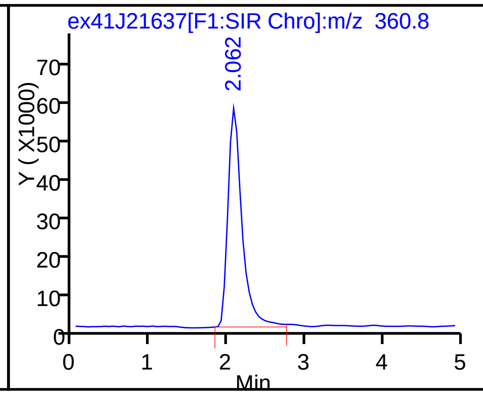
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21637.d

Injection Date:	02-Nov-2011 04:47:12	Limit Group:	LC - 8321A Expl
Client ID:	SB004	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	161
Operator ID:		Injection Vol:	40.00 ul

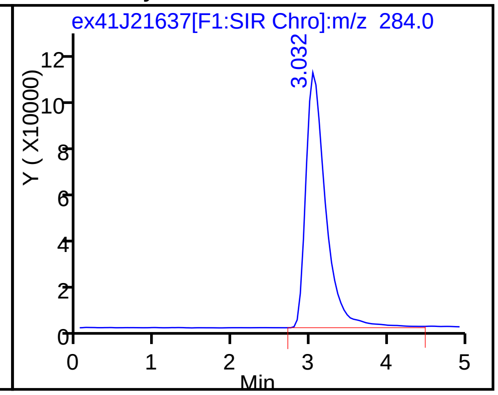
2 HMX (ND)



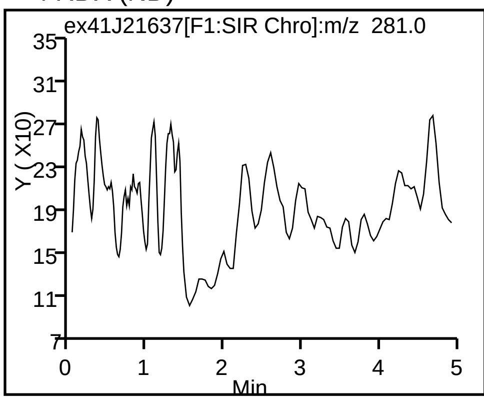
* 1 HMX-13C4



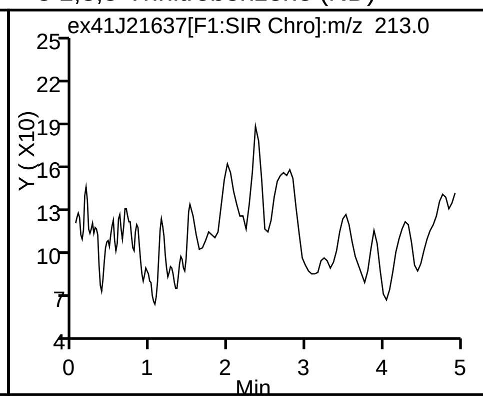
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



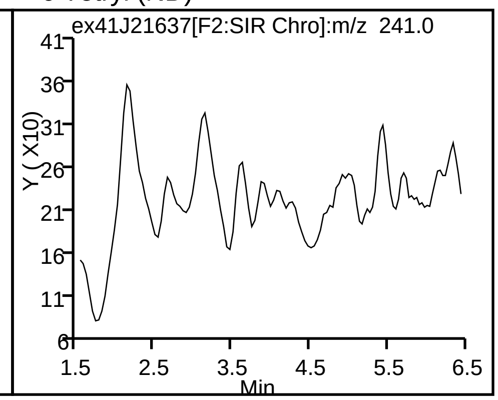
4 RDX (ND)



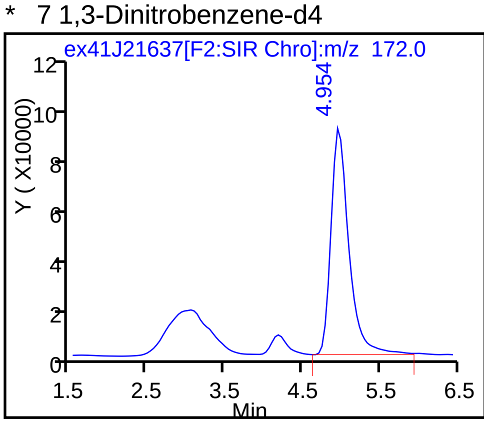
5 1,3,5-Trinitrobenzene (ND)



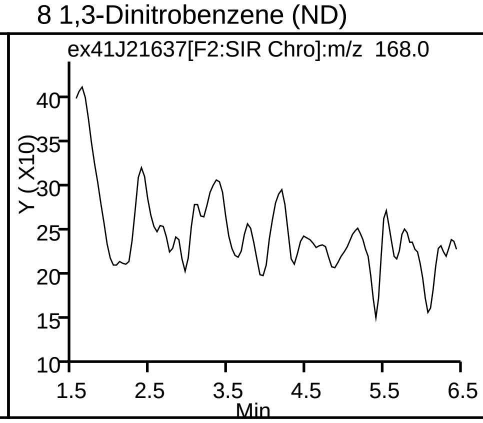
6 Tetryl (ND)



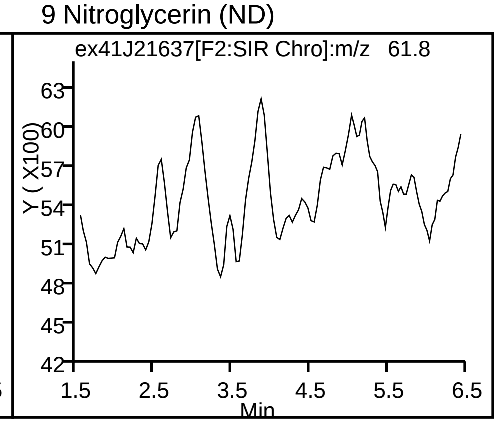
* 7 1,3-Dinitrobenzene-d4



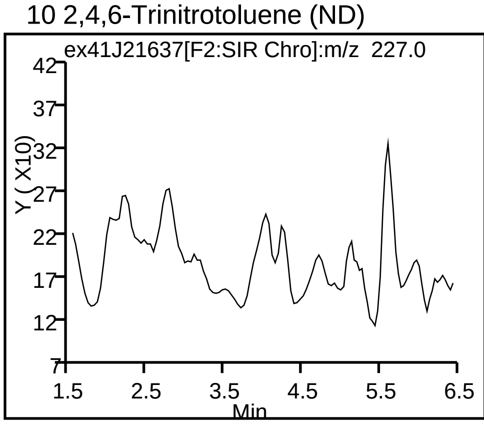
8 1,3-Dinitrobenzene (ND)



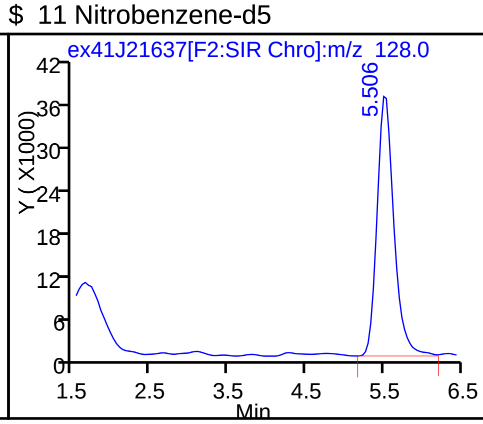
9 Nitroglycerin (ND)



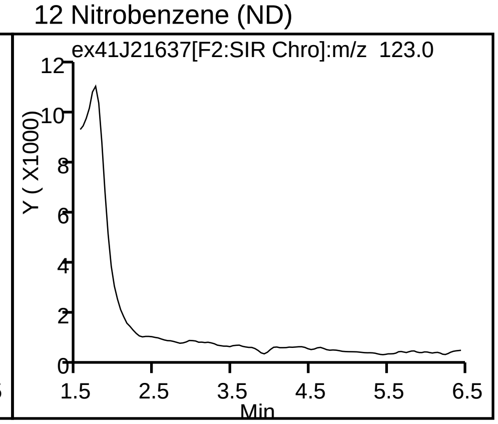
10 2,4,6-Trinitrotoluene (ND)



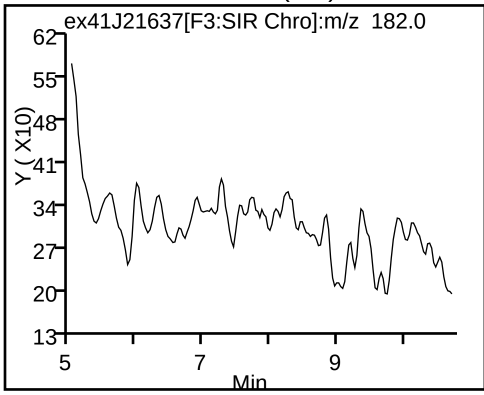
$ 11 Nitrobenzene-d5



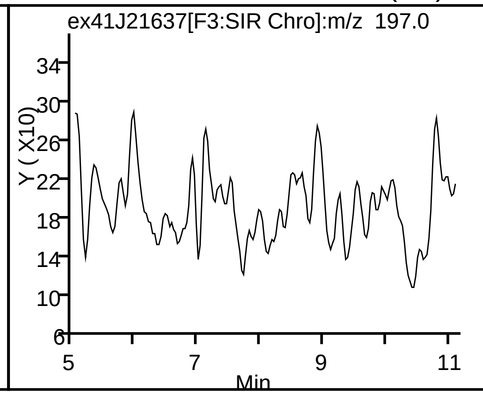
12 Nitrobenzene (ND)



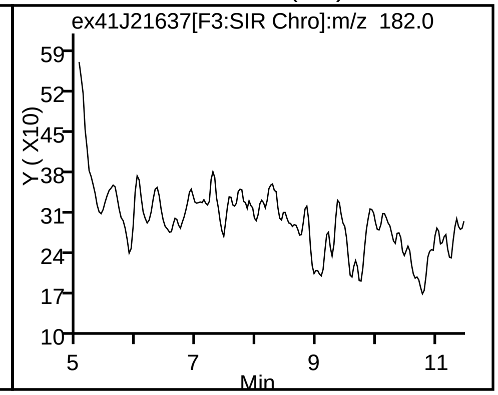
13 3,4-Dinitrotoluene (ND)



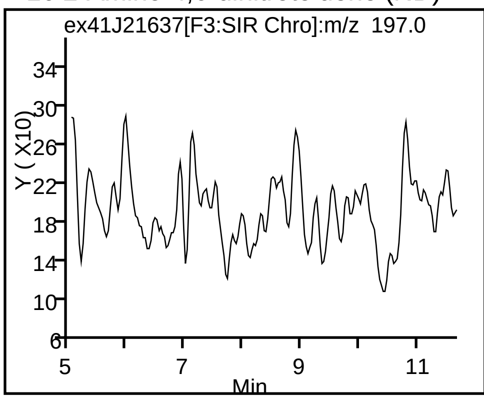
14 4-Amino-2,6-dinitrotoluene (ND)



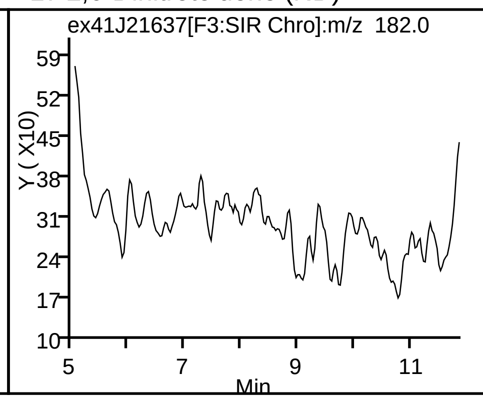
15 2,3-Dinitrotoluene (ND)



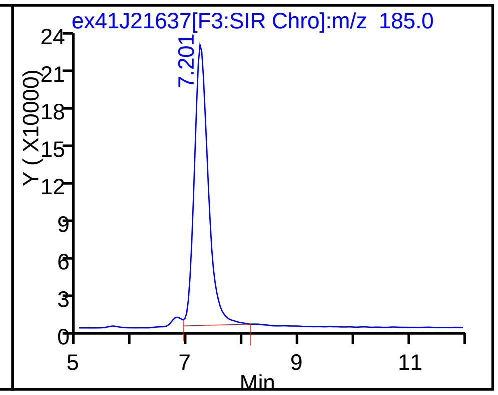
16 2-Amino-4,6-dinitrotoluene (ND)



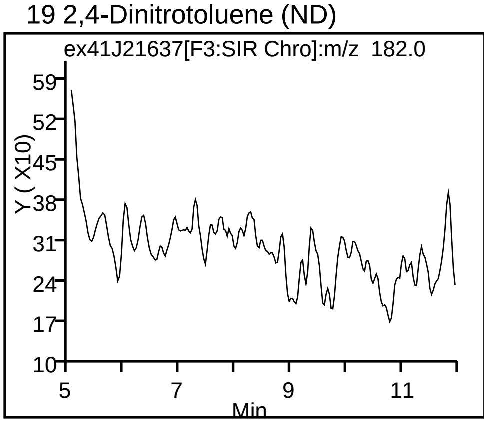
17 2,6-Dinitrotoluene (ND)



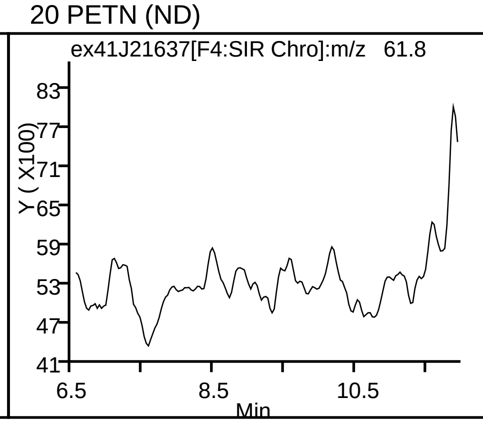
* 18 2,4-dinitrotoluene-d3



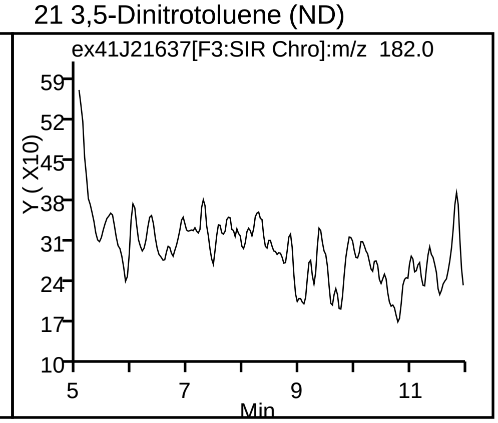
19 2,4-Dinitrotoluene (ND)



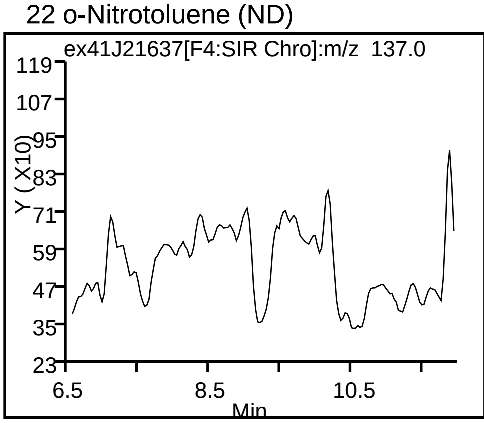
20 PETN (ND)



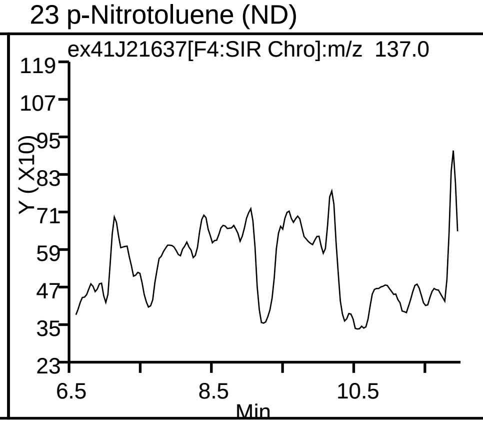
21 3,5-Dinitrotoluene (ND)



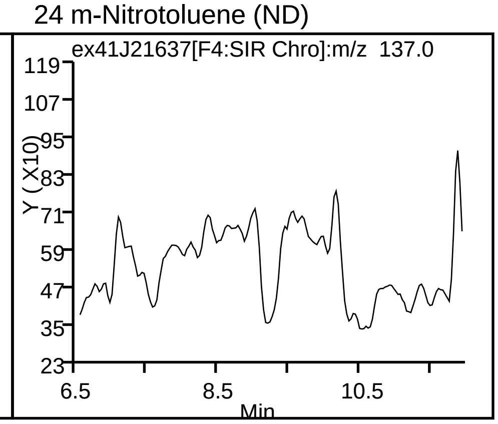
22 o-Nitrotoluene (ND)



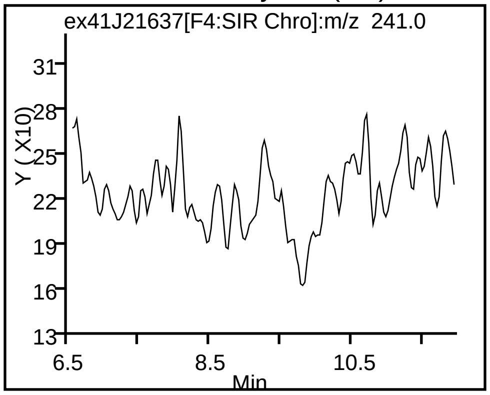
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP12 SB017 | Lab Sample ID: 280-21683-94

Matrix: Solid | Lab File ID: ex41J21638.d

Analysis Method: 8321B | Date Collected: 10/16/2011 15:22

Extraction Method: 8330B | Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.12(g) | Date Analyzed: 11/02/2011 05:00

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	79		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21638.d		
Lims ID:	280-21683-B-94-B	Client ID:	SB017
Inject. Date:	02-Nov-2011 05:00:46	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-94-B 280-0002689-162		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	97
Lims Batch ID:	94194	Lims Sample ID:	162
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:31	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:53:41

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		666822	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2294291	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1355843	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	523168	78.1			
12 Nitrobenzene										1
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.231	-0.030		4136891	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0		8.284							
23 p-Nitrotoluene										
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

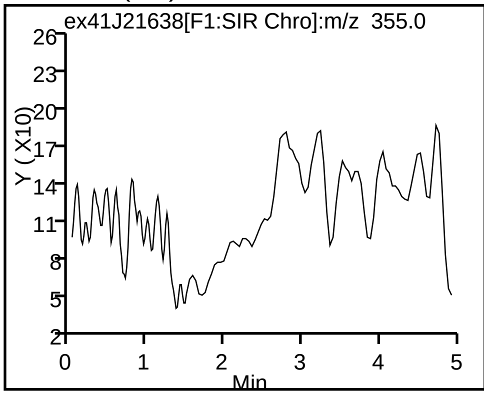
QC Flag Legend

Processing Flags
1 - Missing Peaks

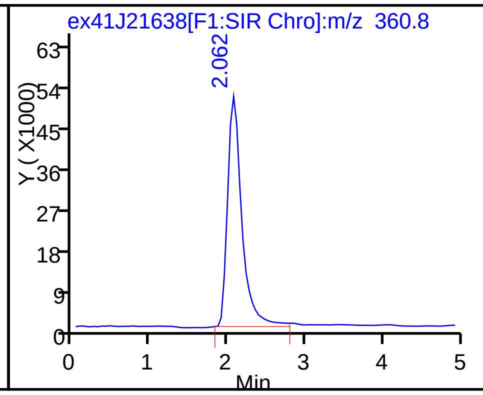
Report Date: 02-Nov-2011 06:54:39 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21638.d		
Injection Date:	02-Nov-2011 05:00:46	Limit Group:	LC - 8321A Expl
Client ID:	SB017	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	162
Operator ID:		Injection Vol:	40.00 ul

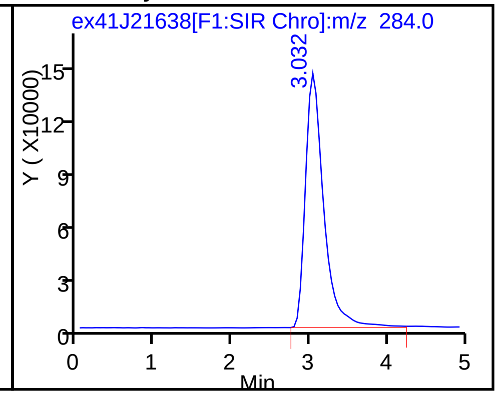
2 HMX (ND)



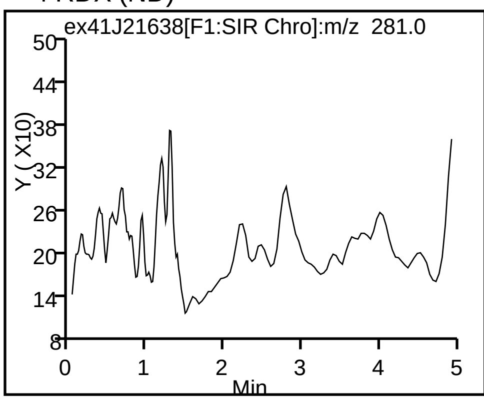
* 1 HMX-13C4



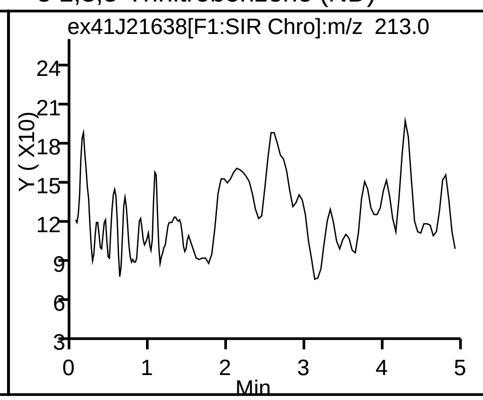
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



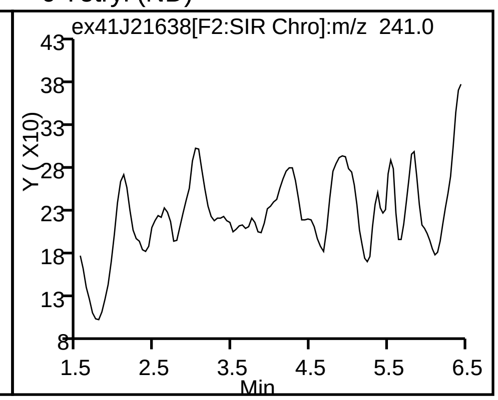
4 RDX (ND)



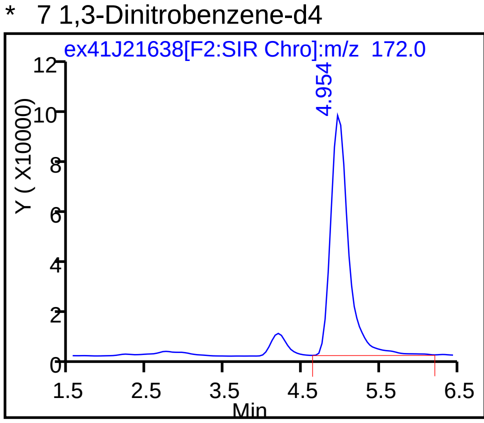
5 1,3,5-Trinitrobenzene (ND)



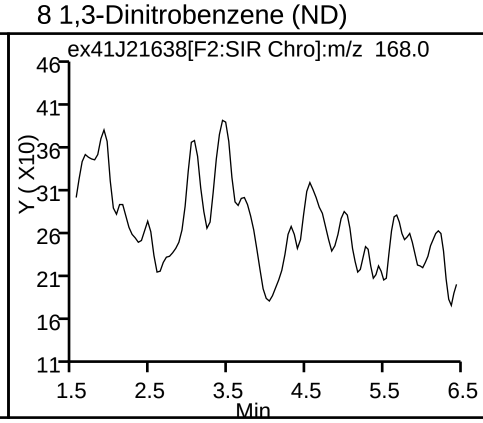
6 Tetryl (ND)



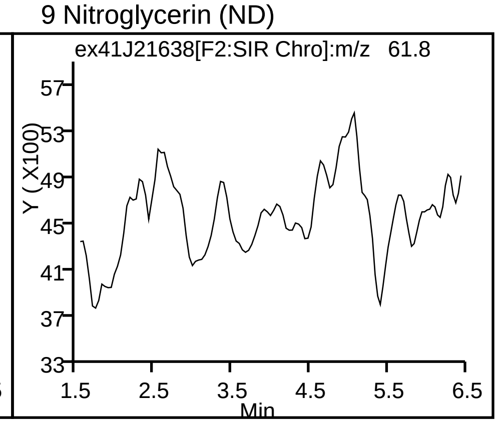
* 7 1,3-Dinitrobenzene-d4



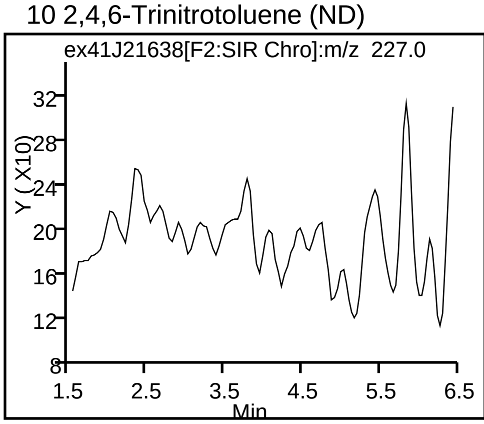
8 1,3-Dinitrobenzene (ND)



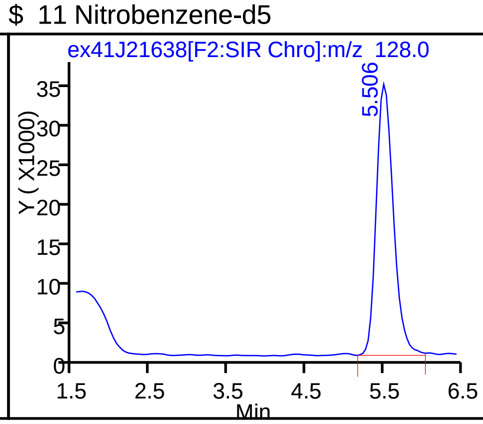
9 Nitroglycerin (ND)



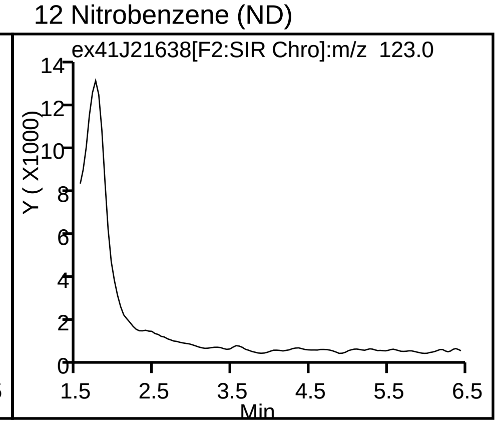
10 2,4,6-Trinitrotoluene (ND)



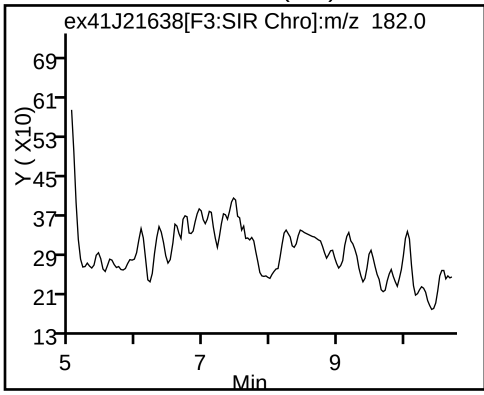
$ 11 Nitrobenzene-d5



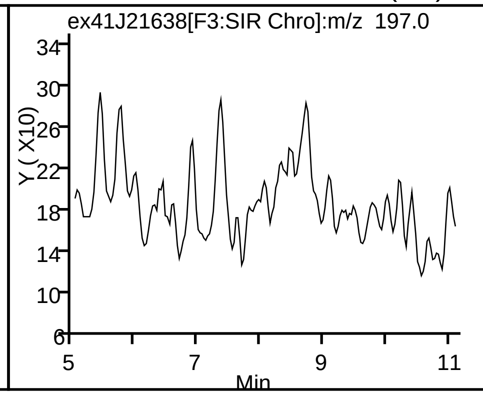
12 Nitrobenzene (ND)



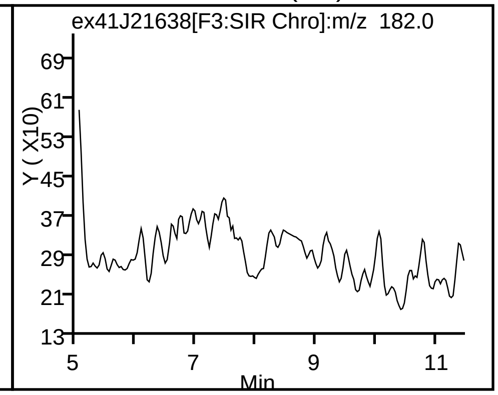
13 3,4-Dinitrotoluene (ND)



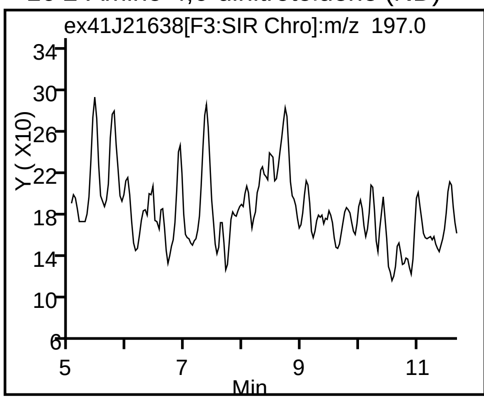
14 4-Amino-2,6-dinitrotoluene (ND)



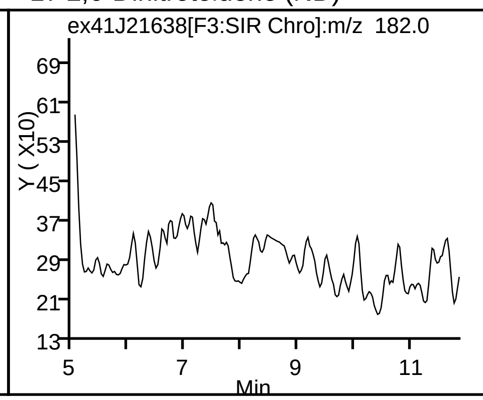
15 2,3-Dinitrotoluene (ND)



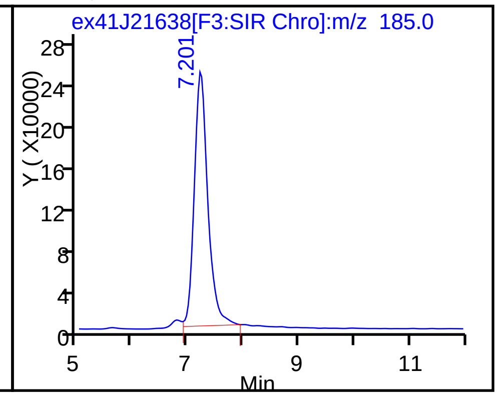
16 2-Amino-4,6-dinitrotoluene (ND)



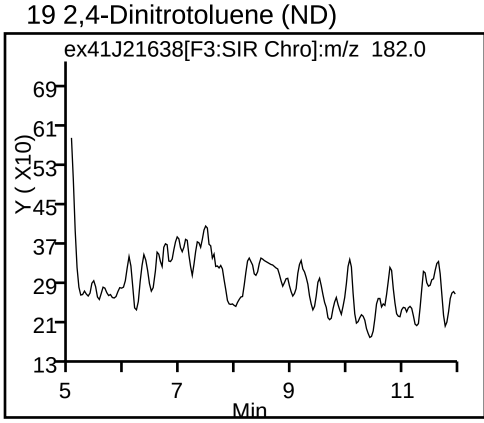
17 2,6-Dinitrotoluene (ND)



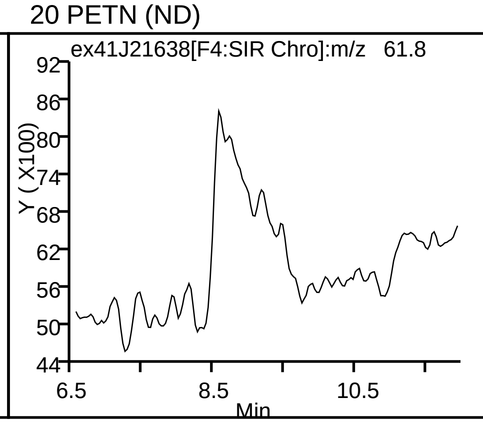
* 18 2,4-dinitrotoluene-d3



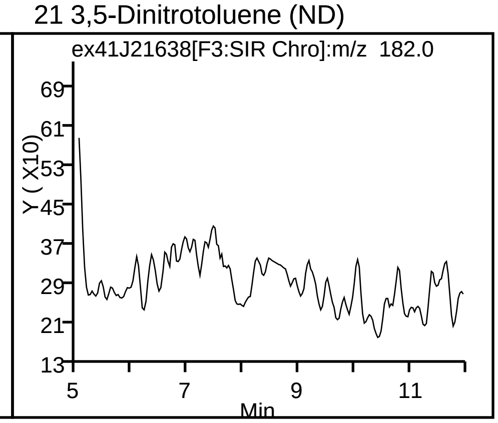
19 2,4-Dinitrotoluene (ND)



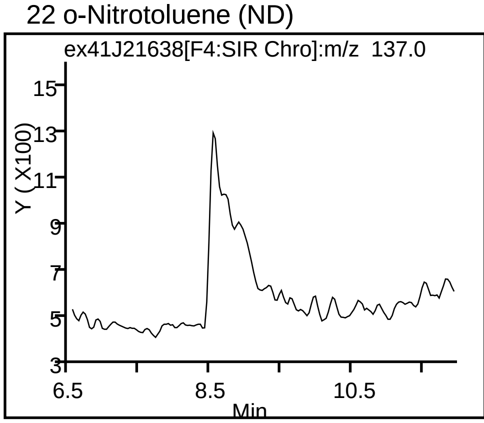
20 PETN (ND)



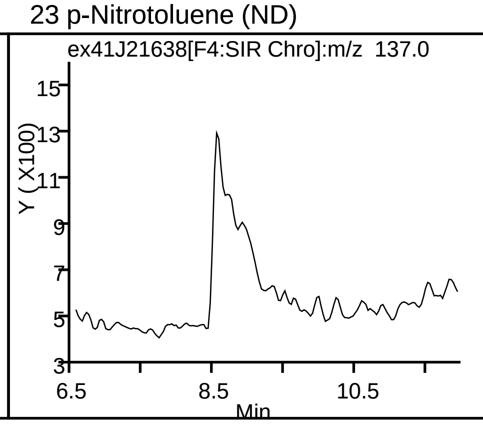
21 3,5-Dinitrotoluene (ND)



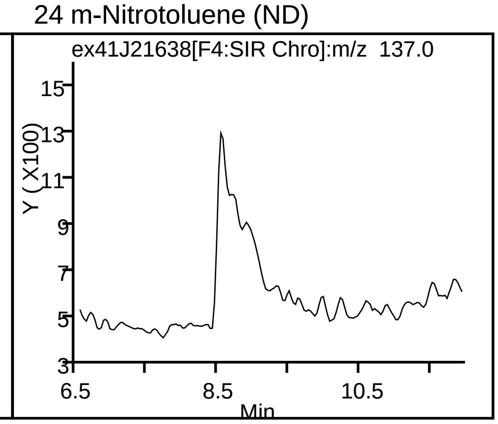
22 o-Nitrotoluene (ND)



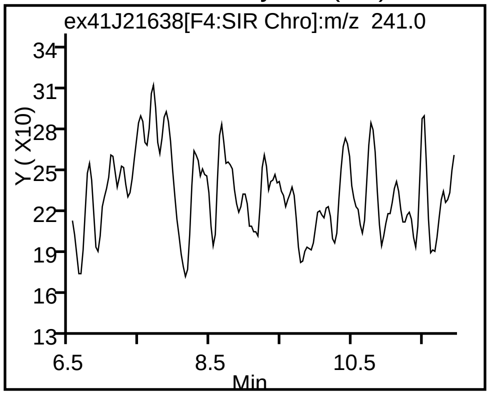
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver　　Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP12 SB018　　Lab Sample ID: 280-21683-95

Matrix: Solid　　Lab File ID: ex41J21639.d

Analysis Method: 8321B　　Date Collected: 10/16/2011 15:25

Extraction Method: 8330B　　Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.22(g)　　Date Analyzed: 11/02/2011 05:14

Con. Extract Vol.: 40(mL)　　Dilution Factor: 1

Injection Volume: 40(uL)　　GC Column: IonPac　　ID: 2(mm)

% Moisture:　　GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194　　Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.098	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.098	0.024	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.098	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.098	0.024	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.098	0.024	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0050
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	90		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21639.d		
Lims ID:	280-21683-B-95-B	Client ID:	SB018
Inject. Date:	02-Nov-2011 05:14:36	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21683-B-95-B 280-0002689-163		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	98
Lims Batch ID:	94194	Lims Sample ID:	163
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:31	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		606145	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1963041	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1198931	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	526981	89.0			
12 Nitrobenzene										1
2	123.0		5.640							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.231	0.000		3721761	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.292							
20	PETN									1
4	61.8		7.768							
21	3,5-Dinitrotoluene									1
3	182.0		7.899							
22	o-Nitrotoluene									1
4	137.0		8.284							
23	p-Nitrotoluene									1
4	137.0		8.830							
24	m-Nitrotoluene									1
4	137.0		9.499							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.379							

QC Flag Legend

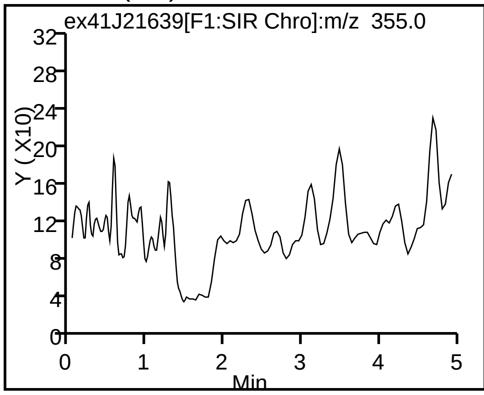
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:54:40 Chrom Revision: 1.2 13-Jul-2011 10:43:06

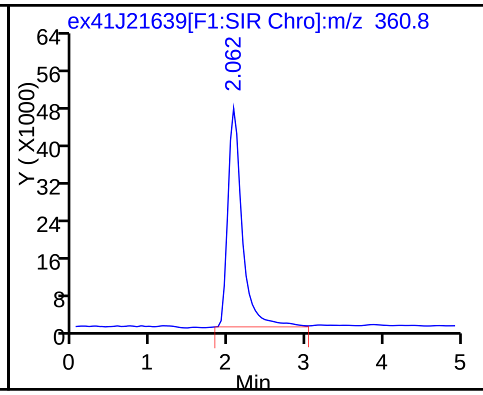
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21639.d

Injection Date:	02-Nov-2011 05:14:36	Limit Group:	LC - 8321A Expl
Client ID:	SB018	Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	163
Operator ID:		Injection Vol:	40.00 ul

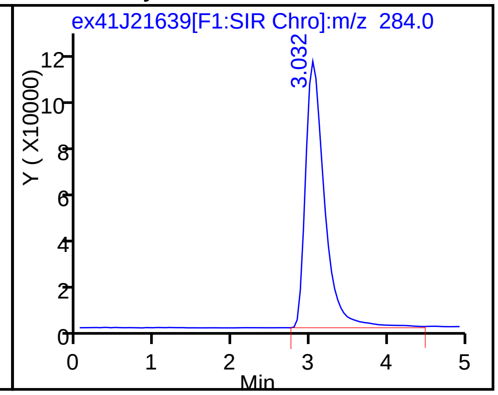
2 HMX (ND)



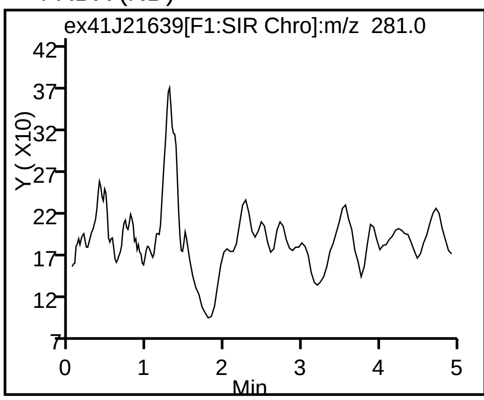
* 1 HMX-13C4



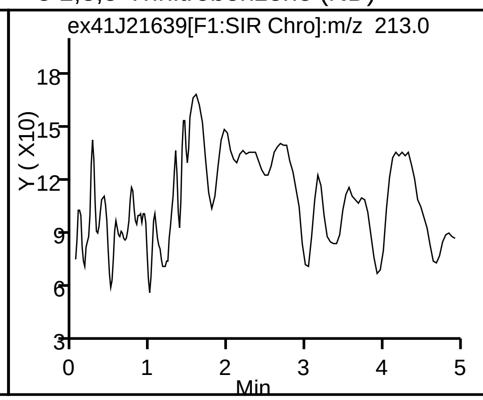
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



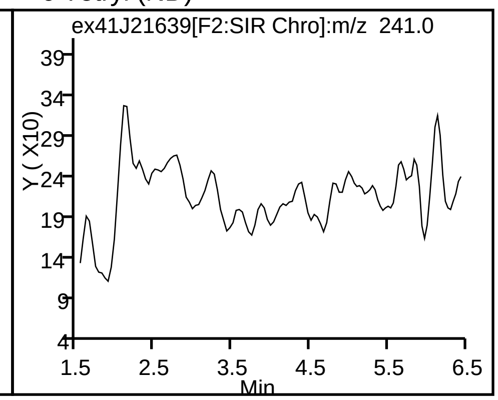
4 RDX (ND)



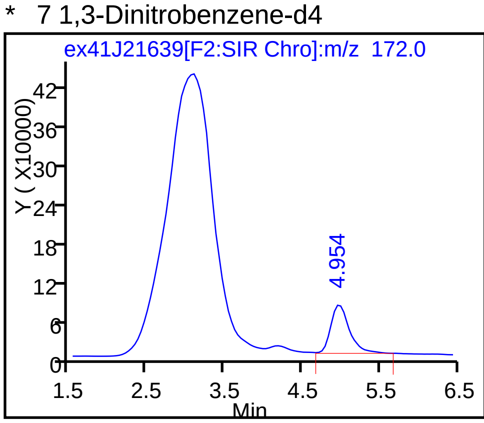
5 1,3,5-Trinitrobenzene (ND)



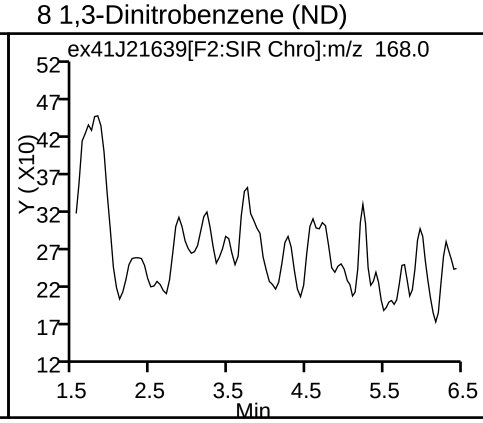
6 Tetryl (ND)



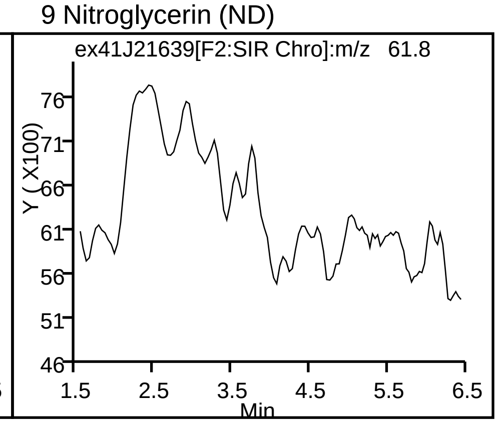
* 7 1,3-Dinitrobenzene-d4



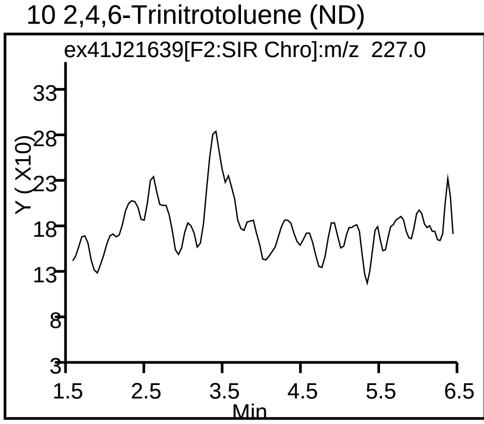
8 1,3-Dinitrobenzene (ND)



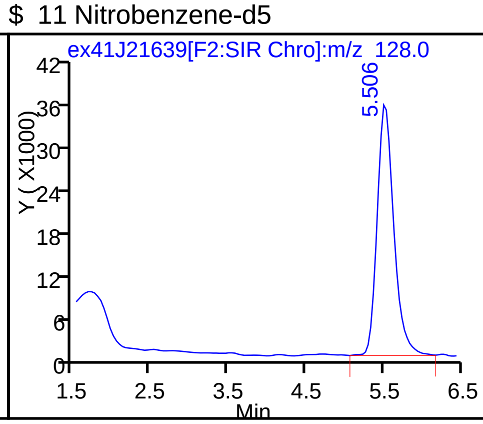
9 Nitroglycerin (ND)



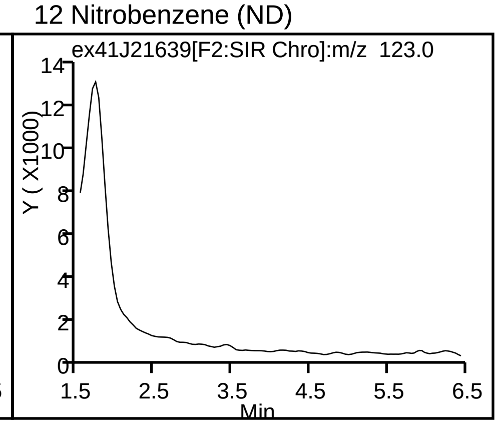
10 2,4,6-Trinitrotoluene (ND)



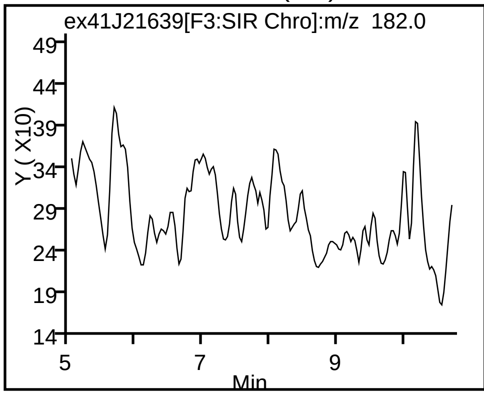
$ 11 Nitrobenzene-d5



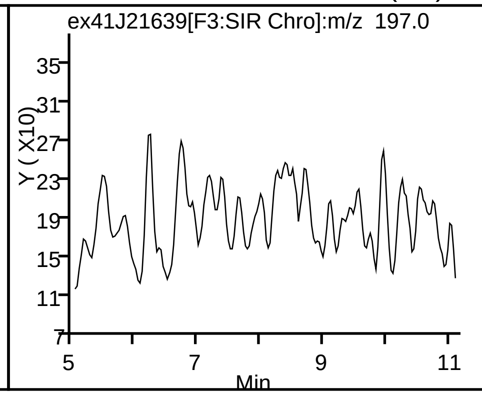
12 Nitrobenzene (ND)



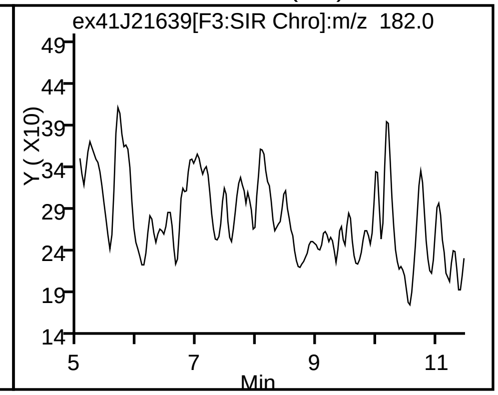
13 3,4-Dinitrotoluene (ND)



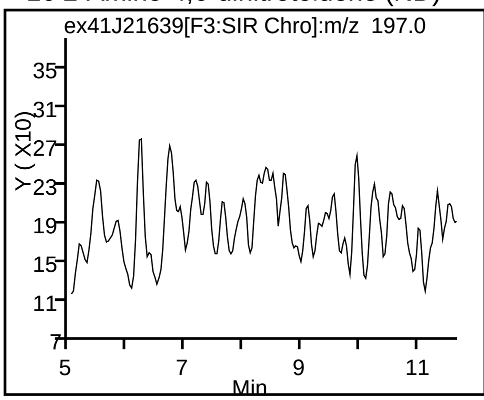
14 4-Amino-2,6-dinitrotoluene (ND)



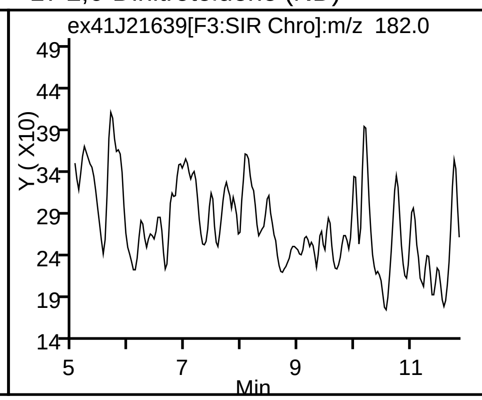
15 2,3-Dinitrotoluene (ND)



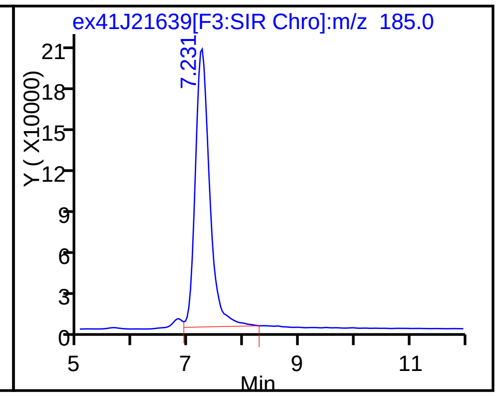
16 2-Amino-4,6-dinitrotoluene (ND)



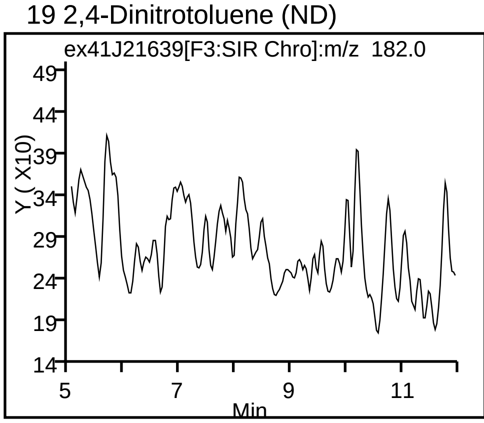
17 2,6-Dinitrotoluene (ND)



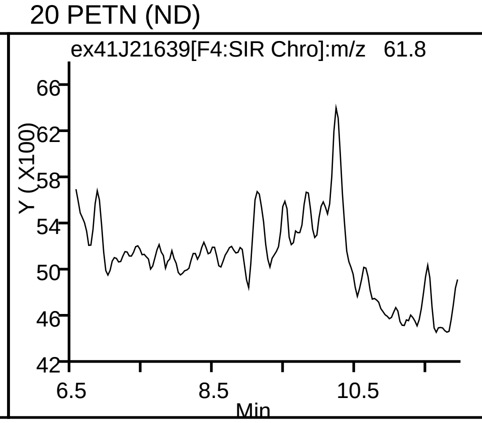
* 18 2,4-dinitrotoluene-d3



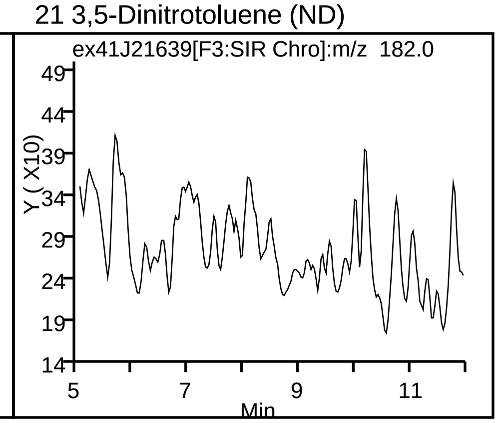
19 2,4-Dinitrotoluene (ND)



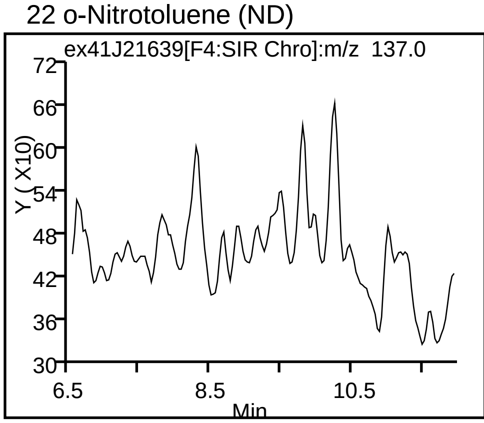
20 PETN (ND)



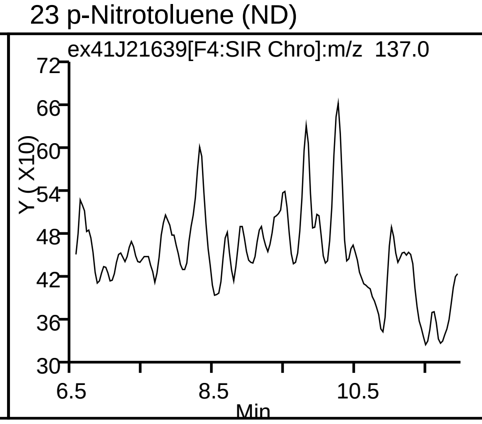
21 3,5-Dinitrotoluene (ND)



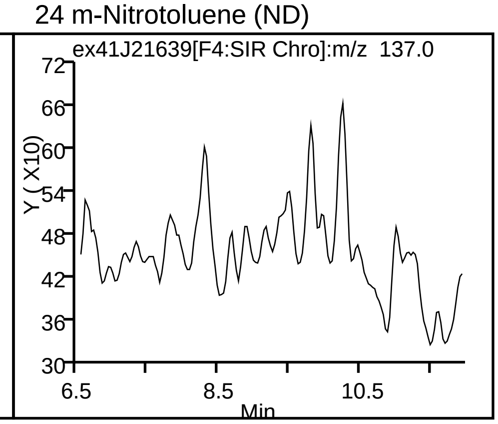
22 o-Nitrotoluene (ND)



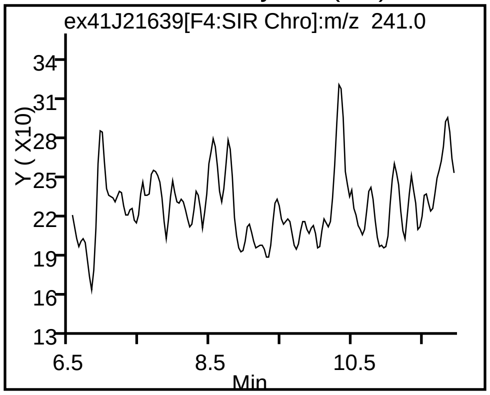
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-21683-1 Analy Batch No.: 92354

SDG No.:

Instrument ID: LC_LCMS4 GC Column: IonPac ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/21/2011 09:28 Calibration End Date: 10/21/2011 10:50 Calibration ID: 7573

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 280-92354/1	ex41J21003.d
Level 2	STD010 280-92354/2	ex41J21004.d
Level 3	STD025 280-92354/3	ex41J21005.d
Level 4	STD050 280-92354/4	ex41J21006.d
Level 5	STD100 280-92354/5	ex41J21007.d
Level 6	STD200 280-92354/6	ex41J21008.d
Level 7	STD300 280-92354/7	ex41J21009.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 / LVL 6	LVL 2 / LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
HMX	2.2182	1.9236	2.1711	2.0672	2.2516	Lin1	-1.712	2.2595							0.9990		0.9900
	2.2731	2.2645															
RDX	0.9375	0.9337	0.9974	1.0238	0.9753	Lin1	0.2512	0.9501							0.9990		0.9900
	0.9413	0.9381															
1,3,5-Trinitrobenzene	0.8700	0.9584	1.0252	0.9401	1.1640	Lin1	-2.812	1.2174							0.9920		0.9900
	1.3297	1.1713															
Tetryl	1.0794	1.1903	1.1381	1.1390	1.4640	Lin1	-2.664	1.4101							0.9950		0.9900
	1.4849	1.3601															
1,3-Dinitrobenzene	1.0978	1.0559	1.1136	1.0402	1.1776	Lin1	-0.453	1.1291							0.9990		0.9900
	1.1244	1.1245															
Nitroglycerin	6.2260	5.8309	6.1517	5.9684	6.8308	Lin1	-7.814	6.7948							0.9990		0.9900
	6.7017	6.8942															
2,4,6-Trinitrotoluene	4.6668	4.6980	4.4818	4.6009	5.3964	Lin1	-2.955	4.9847							0.9970		0.9900
	5.1235	4.8059															
Nitrobenzene	1.1545	0.9109	0.9846	0.9182	1.0315	Lin1	-0.172	1.0179							0.9980		0.9900
	1.0541	1.0057															
3,4-Dinitrotoluene	2.4051	2.2025	2.3671	2.4213	2.2615	Lin1	0.5053	2.3008							0.9980		0.9900
	2.4104	2.2285															
4-Amino-2,6-dinitrotoluene	1.1396	1.1698	1.1662	1.2105	1.2202	Lin1	-0.158	1.1908							1.0000		0.9900
	1.1917	1.1769															
2,3-Dinitrotoluene	3.0615	2.8923	3.1169	3.2541	3.0173	Lin1	0.7194	3.0211							0.9970		0.9900
	3.2029	2.8747															
2-Amino-4,6-dinitrotoluene	1.4447	1.4248	1.6020	1.6085	1.3618	Lin1	0.4614	1.4626							0.9950		0.9900
	1.5699	1.4011															
2,6-Dinitrotoluene	2.7864	2.6117	2.6487	2.7049	2.5073	Lin1	0.0018	2.6600							0.9990		0.9900
	2.6538	2.7081															
2,4-Dinitrotoluene	1.1715	1.2566	1.3078	1.3433	1.2295	Lin1	-0.201	1.2780							0.9990		0.9900
	1.2931	1.2686															

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver   Job No.: 280-21683-1   Analy Batch No.: 92354

SDG No.:

Instrument ID: LC_LCMS4   GC Column: IonPac   ID: 2(mm)   Heated Purge: (Y/N) N

Calibration Start Date: 10/21/2011 09:28   Calibration End Date: 10/21/2011 10:50   Calibration ID: 7573

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PETN	2.2918 2.0425	2.2576 1.8232	2.3821	2.1025	2.0069	Lin1	3.7725	1.9252							0.9950		0.9900
3,5-Dinitrotoluene	0.5736 0.7269	0.5937 0.6233	0.5407	0.6025	0.6385	Lin1	-0.821	0.6586							0.9930		0.9900
2-Nitrotoluene	0.5224 0.5477	0.5723 0.5273	0.5547	0.5190	0.5121	Lin1	0.1012	0.5310							0.9990		0.9900
4-Nitrotoluene	0.4587 0.4859	0.4529 0.4761	0.4914	0.4571	0.4518	Lin1	-0.146	0.4756							0.9990		0.9900
3-Nitrotoluene	0.3188 0.3008	0.2672 0.2891	0.3101	0.2937	0.2849	Lin1	0.0463	0.2924							0.9990		0.9900
Nitrobenzene-d5	1.3264 1.3455	1.3546 1.2329	1.4944	1.1242	1.2797	Lin1	0.7265	1.2691							0.9960		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-21683-1 Analy Batch No.: 92354

SDG No.:

Instrument ID: LC_LCMS4 GC Column: IonPac ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/21/2011 09:28 Calibration End Date: 10/21/2011 10:50 Calibration ID: 7573

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 280-92354/1	ex41J21003.d
Level 2	STD010 280-92354/2	ex41J21004.d
Level 3	STD025 280-92354/3	ex41J21005.d
Level 4	STD050 280-92354/4	ex41J21006.d
Level 5	STD100 280-92354/5	ex41J21007.d
Level 6	STD200 280-92354/6	ex41J21008.d
Level 7	STD300 280-92354/7	ex41J21009.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
HMX	HXC4	Lin1	28537 810121	48678 965254	138769	268387	516486	5.00 200	10.0 300	25.0	50.0	100
RDX	HHTT	Lin1	44214 1408872	81945 2008053	205524	462065	847609	4.94 197	9.87 296	24.7	49.4	98.7
1,3,5-Trinitrobenzene	DNB4	Lin1	28815 1424958	54451 1920435	159749	325370	671081	5.01 200	10.0 300	25.0	50.1	100
Tetryl	DNB4	Lin1	35500 1580104	67153 2214425	176105	391461	838121	4.97 199	9.94 298	24.9	49.7	99.4
1,3-Dinitrobenzene	DNB4	Lin1	36829 1220565	60771 1867624	175773	364698	687743	5.07 203	10.1 304	25.4	50.7	101
Nitroglycerin	DNB4	Lin1	205994 7174376	330946 11292599	957602	2063587	3934172	5.00 200	10.0 300	25.0	50.0	100
2,4,6-Trinitrotoluene	DNB4	Lin1	154561 5490351	266915 7879891	698359	1592359	3111149	5.01 200	10.0 300	25.0	50.1	100
Nitrobenzene	DNB4	Lin1	38160 1127345	51651 1645655	153111	317143	593466	5.00 200	9.99 300	25.0	50.0	99.9
3,4-Dinitrotoluene	DNT3	Lin1	226555 8250055	385448 11687210	1022004	2459914	4418559	5.00 200	10.0 300	25.0	50.0	100
4-Amino-2,6-dinitrotoluene	DNT3	Lin1	105907 4024449	201970 6089652	496765	1213347	2352065	4.94 197	9.87 296	24.7	49.4	98.7
2,3-Dinitrotoluene	DNT3	Lin1	288210 10956168	505861 15067138	1344894	3304020	5891593	5.00 200	10.00 300	25.0	50.0	100.0
2-Amino-4,6-dinitrotoluene	DNT3	Lin1	136166 5376786	249495 7352568	692097	1635187	2662321	5.01 200	10.0 300	25.0	50.1	100
2,6-Dinitrotoluene	DNT3	Lin1	262629 9088816	457334 14211297	1144280	2749675	4901609	5.01 200	10.0 300	25.0	50.1	100
2,4-Dinitrotoluene	DNT3	Lin1	110639 4437530	220476 6670517	566101	1368284	2408469	5.02 201	10.0 301	25.1	50.2	100
PETN	DNT3	Lin1	215371 6974193	394148 9539084	1026023	2130938	3911608	4.99 200	9.98 299	25.0	49.9	99.8

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver   Job No.: 280-21683-1   Analy Batch No.: 92354

SDG No.:

Instrument ID: LC_LCMS4   GC Column: IonPac   ID: 2(mm)   Heated Purge: (Y/N) N

Calibration Start Date: 10/21/2011 09:28   Calibration End Date: 10/21/2011 10:50   Calibration ID: 7573

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
3,5-Dinitrotoluene	DNT3	Lin1	54009 2487075	103865 3267415	233350	611884	1246969	5.00 200	10.0 300	25.0	50.0	100
2-Nitrotoluene	DNT3	Lin1	48751 1856989	99217 2739568	237241	522289	991158	4.96 198	9.91 297	24.8	49.6	99.1
4-Nitrotoluene	DNT3	Lin1	42976 1654035	78825 2483358	211017	461884	877872	4.98 199	9.95 299	24.9	49.8	99.5
3-Nitrotoluene	DNT3	Lin1	29657 1016967	46178 1497484	132243	294700	549697	4.94 198	9.88 296	24.7	49.4	98.8
Nitrobenzene-d5	DNB4	Lin1	43896 1440792	76901 2019931	232688	388797	737235	5.00 200	10.0 300	25.0	50.0	100

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21003.d		
Lims ID:	STD005	Client ID:	
Inject. Date:	21-Oct-2011 09:28:17	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	10/21/11EX1 STD005 ug/L 280-0002644-001		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	2
Lims Batch ID:	92354	Lims Sample ID:	1
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:38	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

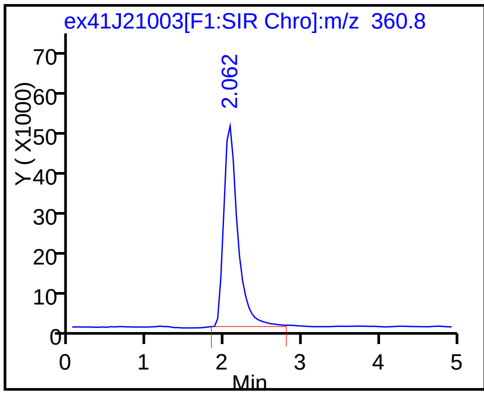
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		643250	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	28537	5.67			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2389043	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	44214	4.61			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	28815	5.89			
6 Tetryl										
2	241.0	4.469	4.509	-0.040	0.902	35500	5.69			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1711880	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	5.035	-0.041	1.008	36829	5.33			
9 Nitroglycerin										
2	61.8	5.035	5.068	-0.033	1.016	205994	5.73			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.439	-0.034	1.091	154561	5.28			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.540	-0.034	1.111	43896	4.65			
12 Nitrobenzene										
2	123.0	5.607	5.641	-0.034	1.132	38160	5.83			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.718	-0.034	0.793	226555	5.01			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.122	-0.034	0.849	105907	4.86			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.459	6.533	-0.074	0.901	288210	4.83			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.715	-0.030	0.932	136166	4.63			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.867	-0.030	0.953	262629	5.24			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.231	-0.061		4708059	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.292	-0.030	1.013	110639	4.75			
20 PETN										
4	61.8	7.707	7.768	-0.061	1.000	215371	3.98			
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.899	-0.030	1.097	54009	5.60			
22 o-Nitrotoluene										
4	137.0	8.223	8.284	-0.061	1.000	48751	4.68			
23 p-Nitrotoluene										
4	137.0	8.770	8.831	-0.061	1.000	42976	5.10			
24 m-Nitrotoluene										
4	137.0	9.438	9.499	-0.061	1.000	29657	5.23			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.319	10.379	-0.060	1.000	327866	4.58			

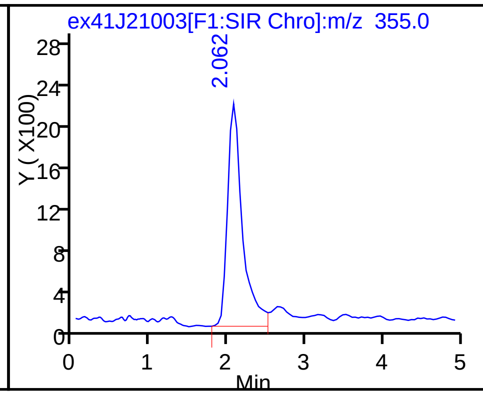
Report Date: 24-Oct-2011 07:32:39 | Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21003.d

Injection Date:	21-Oct-2011 09:28:17	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	1
Operator ID:		Injection Vol:	40.00 ul

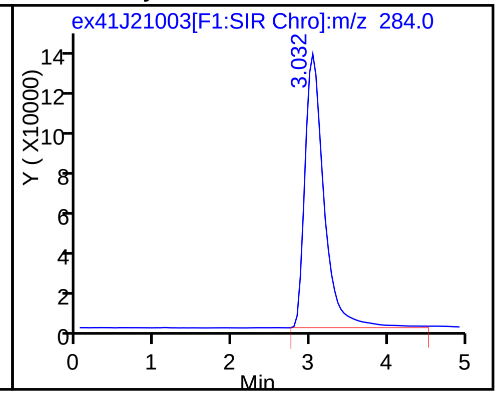
* 1 HMX-13C4



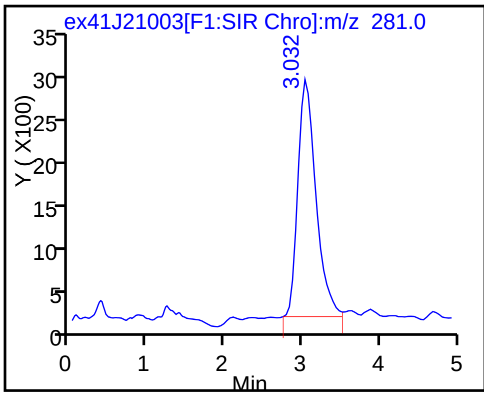
2 HMX



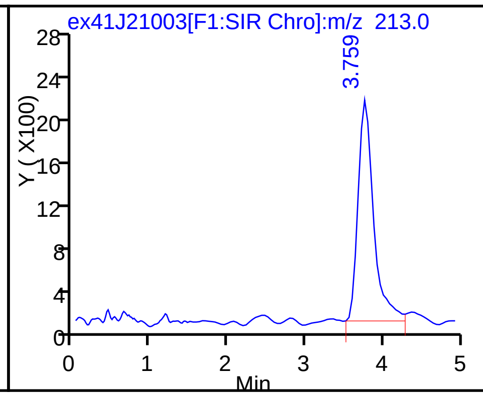
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



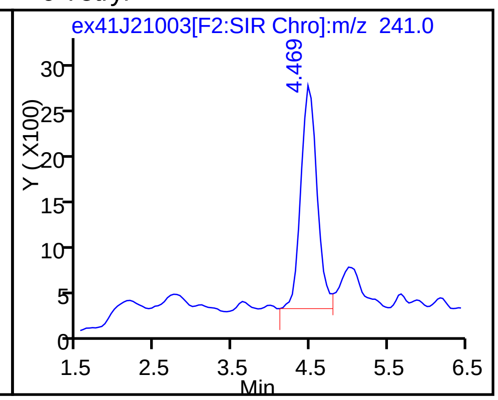
4 RDX



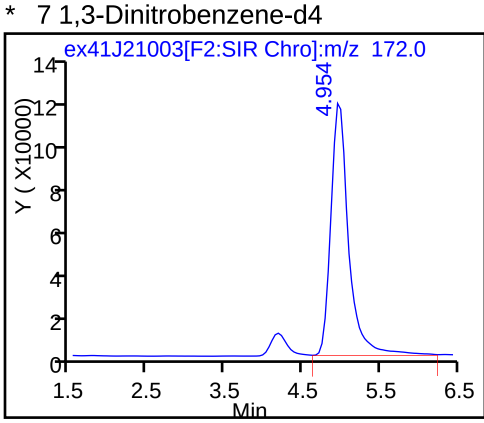
5 1,3,5-Trinitrobenzene



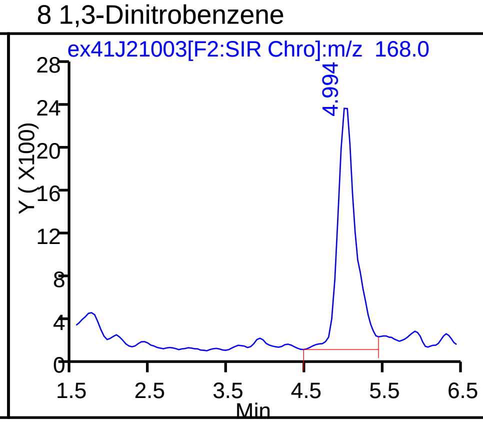
6 Tetryl



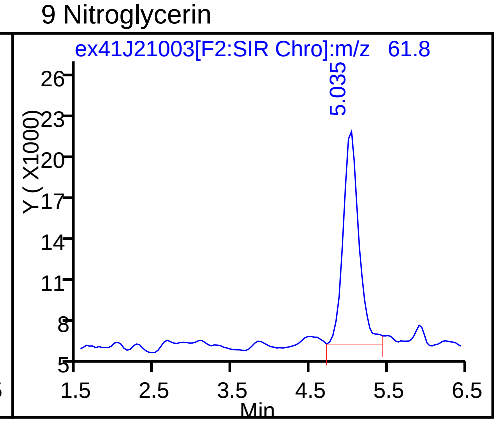
* 7 1,3-Dinitrobenzene-d4



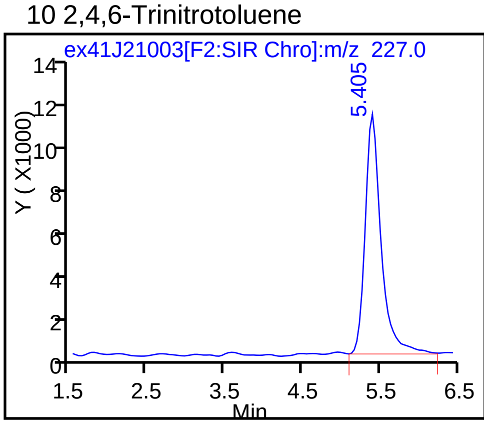
8 1,3-Dinitrobenzene



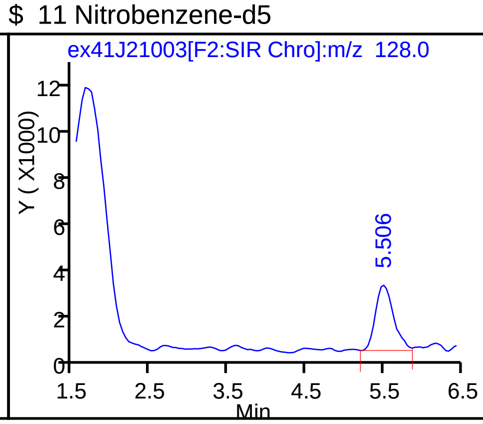
9 Nitroglycerin



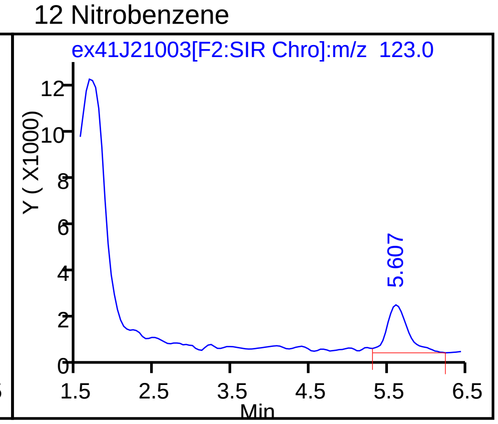
10 2,4,6-Trinitrotoluene



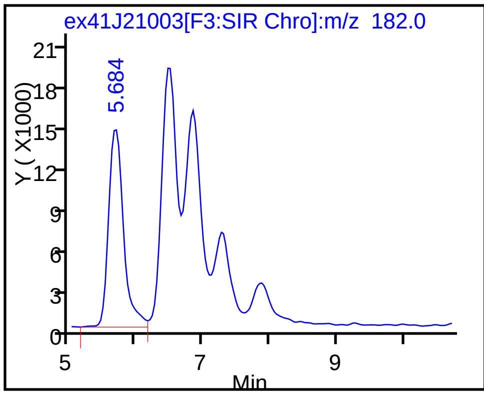
$ 11 Nitrobenzene-d5



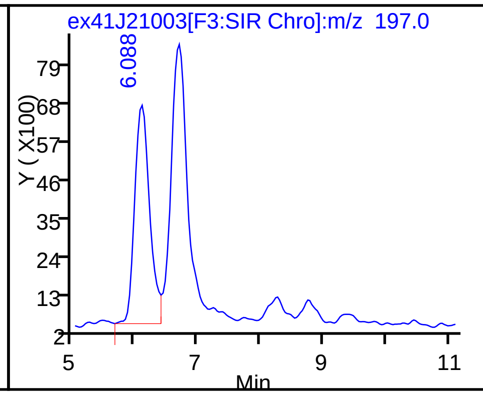
12 Nitrobenzene



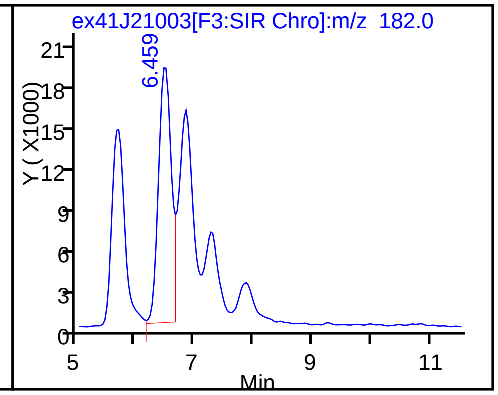
13 3,4-Dinitrotoluene



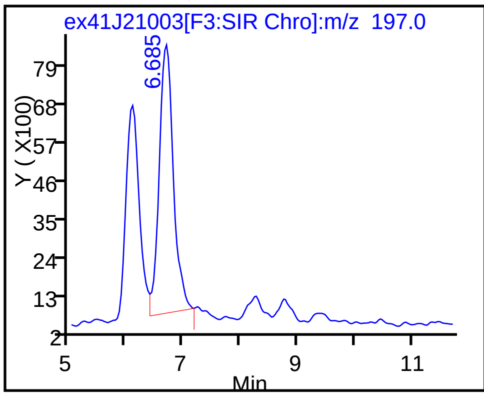
14 4-Amino-2,6-dinitrotoluene



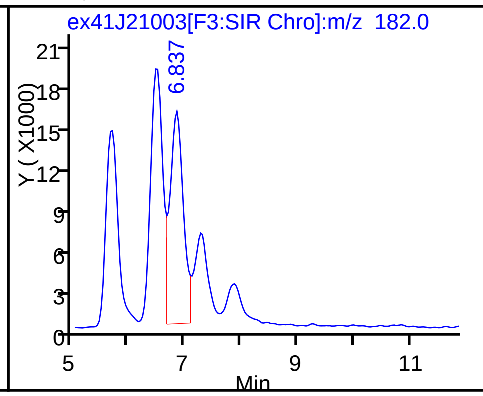
15 2,3-Dinitrotoluene



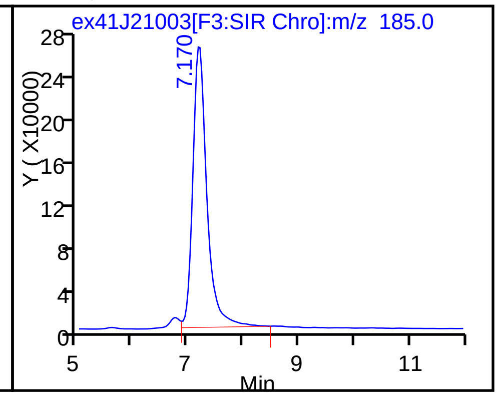
16 2-Amino-4,6-dinitrotoluene



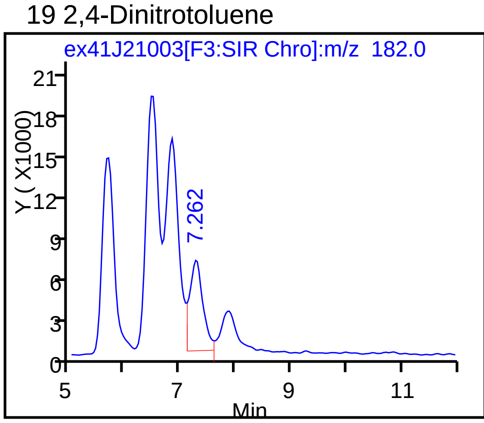
17 2,6-Dinitrotoluene



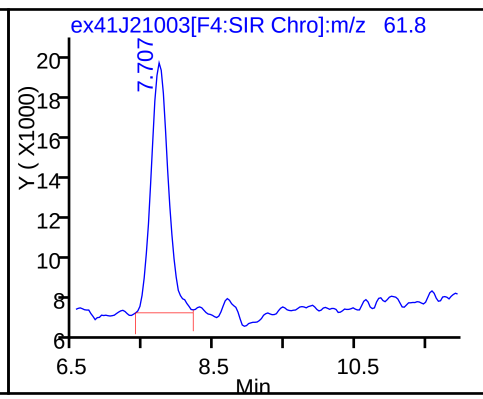
* 18 2,4-dinitrotoluene-d3



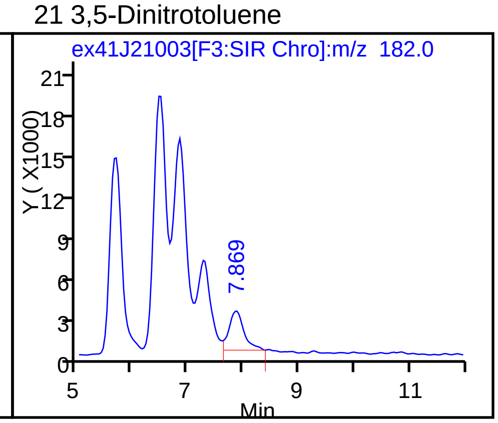
19 2,4-Dinitrotoluene



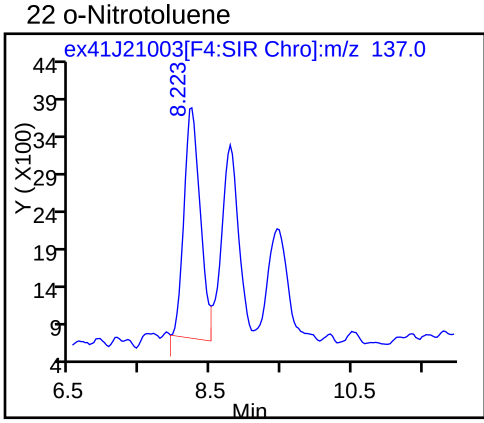
20 PETN



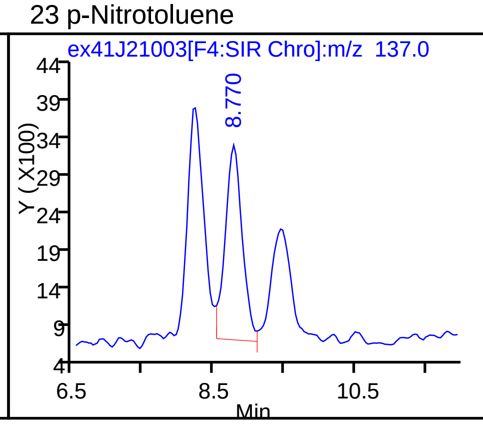
21 3,5-Dinitrotoluene



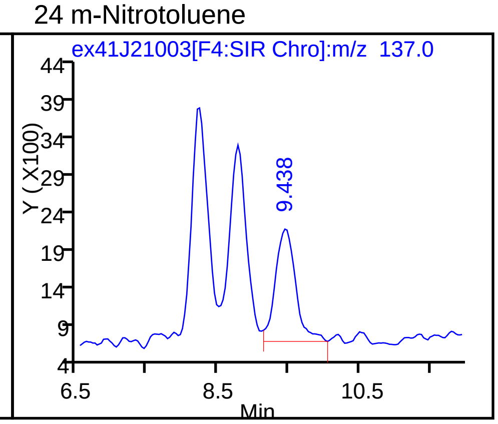
22 o-Nitrotoluene



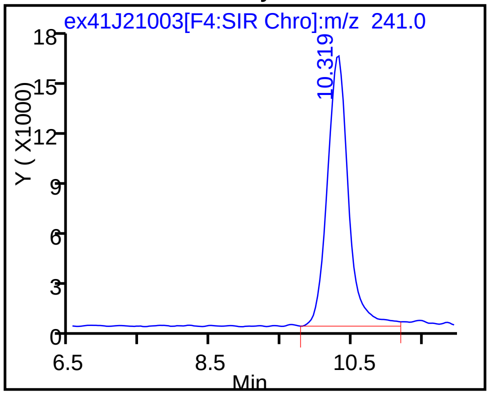
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21004.d		
Lims ID:	STD010	Client ID:	
Inject. Date:	21-Oct-2011 09:41:51	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	10/21/11EX1 STD010 ug/L 280-0002644-002		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	3
Lims Batch ID:	92354	Lims Sample ID:	2
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:40	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		632651	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	48678	9.27			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2222875	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	81945	9.44			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	54451	10.2			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	67153	10.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1468321	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.008	60771	9.88			
9 Nitroglycerin										
2	61.8	5.035	5.068	-0.033	1.008	330946	9.73			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.439	-0.001	1.089	266915	10.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.540	0.000	1.109	76901	10.1			
12 Nitrobenzene										
2	123.0	5.641	5.641	0.000	1.129	51651	9.11			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.718	-0.034	0.786	385448	9.36			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	201970	9.83			

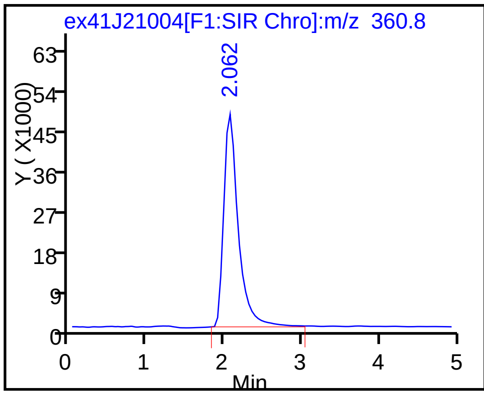
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.533	6.533	0.000	0.903	505861	9.33			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.929	249495	9.44			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.867	0.030	0.954	457334	9.83			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4373347	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	220476	10.0			
20 PETN										
4	61.8	7.798	7.768	0.030	1.000	394148	9.74			
21 3,5-Dinitrotoluene										
3	182.0	7.930	7.899	0.031	1.097	103865	10.3			
22 o-Nitrotoluene										
4	137.0	8.284	8.284	0.000	1.000	99217	10.5			
23 p-Nitrotoluene										
4	137.0	8.861	8.831	0.030	1.000	78825	9.78			
24 m-Nitrotoluene										
4	137.0	9.529	9.499	0.030	1.000	46178	8.87			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.379	10.379	0.000	1.000	625675	10.1			

Report Date: 24-Oct-2011 07:32:40 Chrom Revision: 1.2 13-Jul-2011 10:43:06

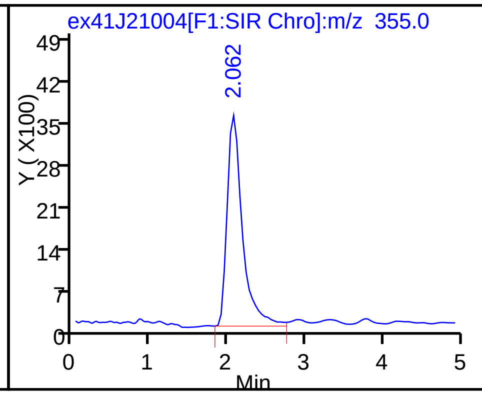
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21004.d

Injection Date:	21-Oct-2011 09:41:51	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	2
Operator ID:		Injection Vol:	40.00 ul

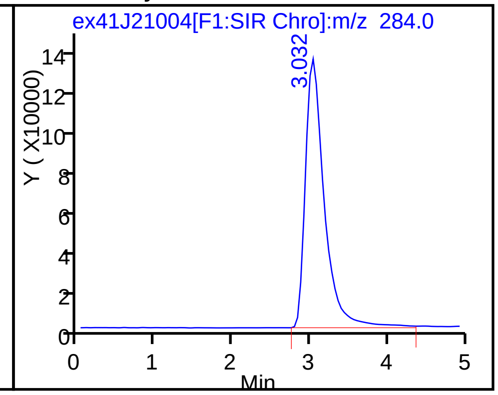
* 1 HMX-13C4



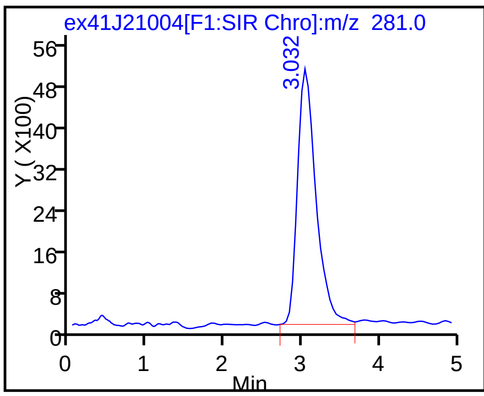
2 HMX



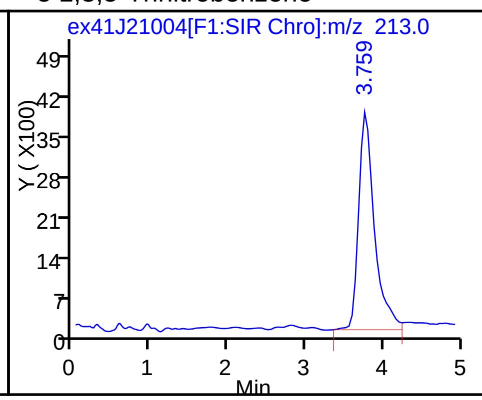
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



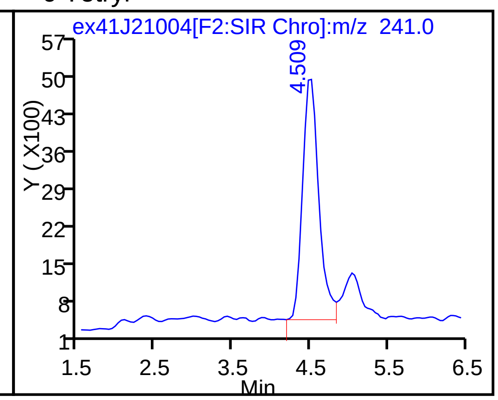
4 RDX



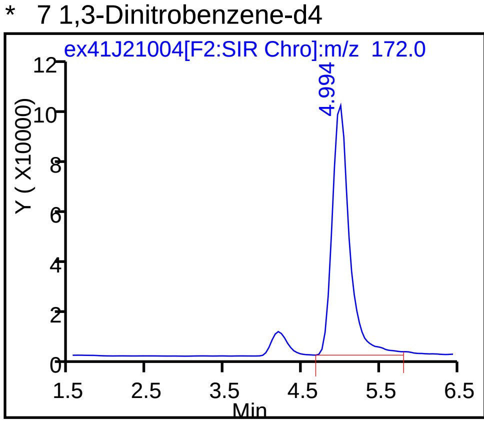
5 1,3,5-Trinitrobenzene



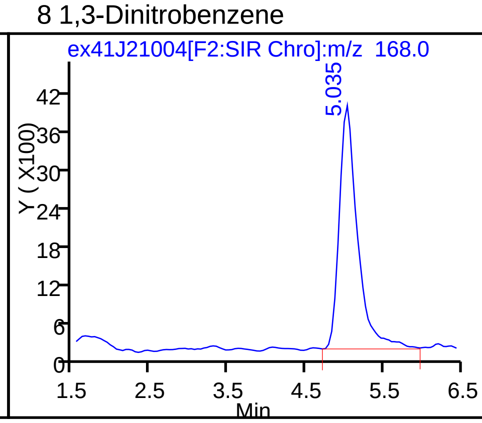
6 Tetryl



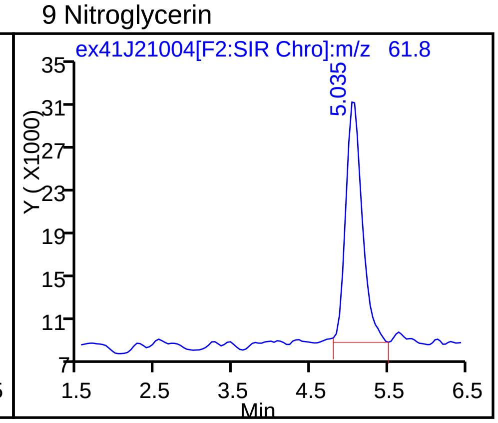
* 7 1,3-Dinitrobenzene-d4



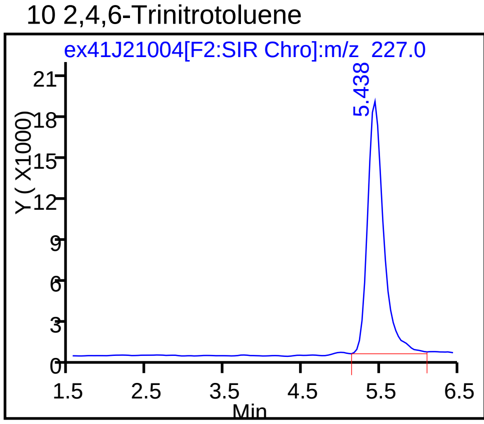
8 1,3-Dinitrobenzene



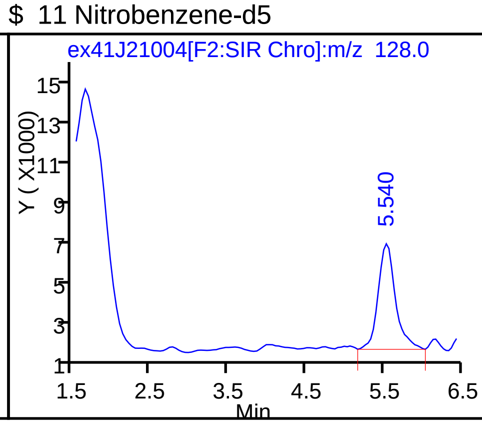
9 Nitroglycerin



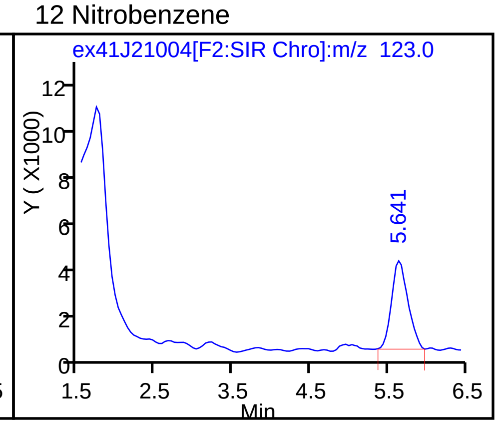
10 2,4,6-Trinitrotoluene



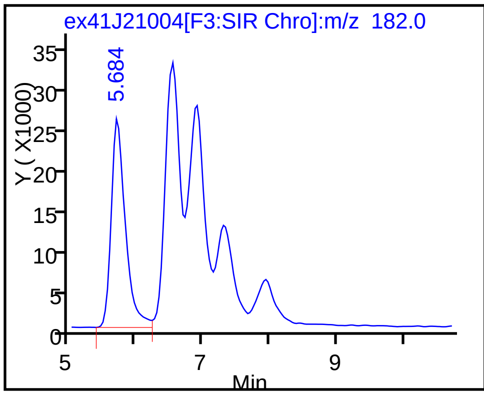
$ 11 Nitrobenzene-d5



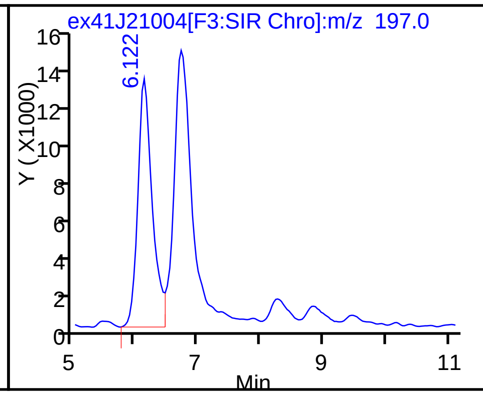
12 Nitrobenzene



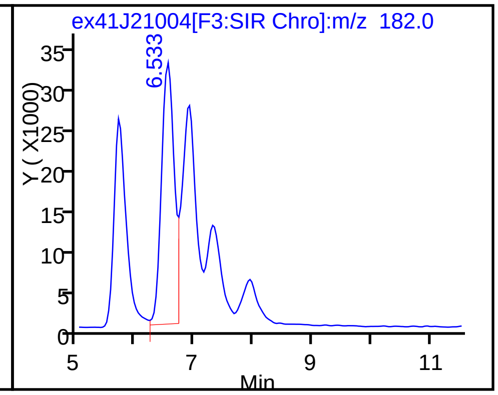
13 3,4-Dinitrotoluene



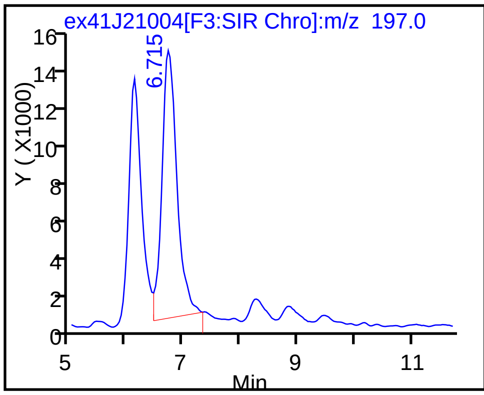
14 4-Amino-2,6-dinitrotoluene



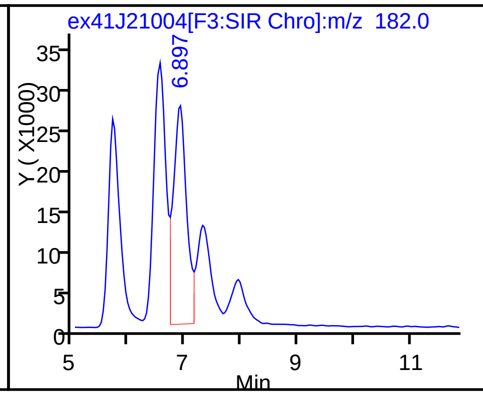
15 2,3-Dinitrotoluene



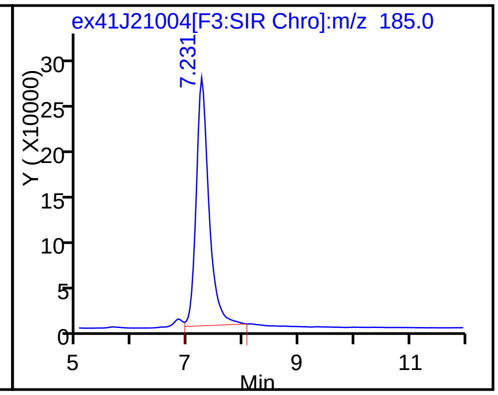
16 2-Amino-4,6-dinitrotoluene



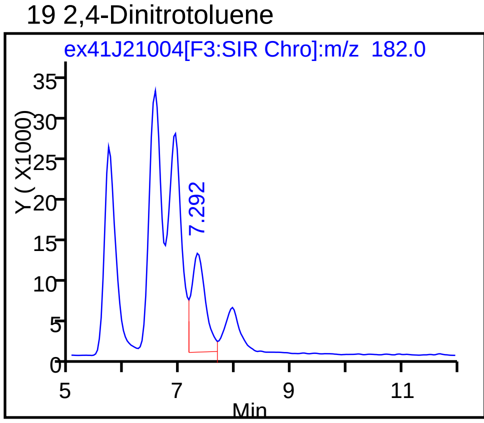
17 2,6-Dinitrotoluene



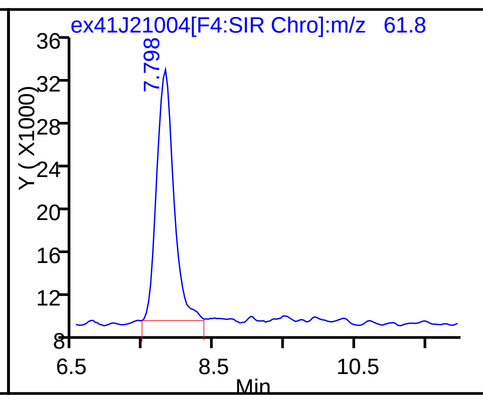
* 18 2,4-dinitrotoluene-d3



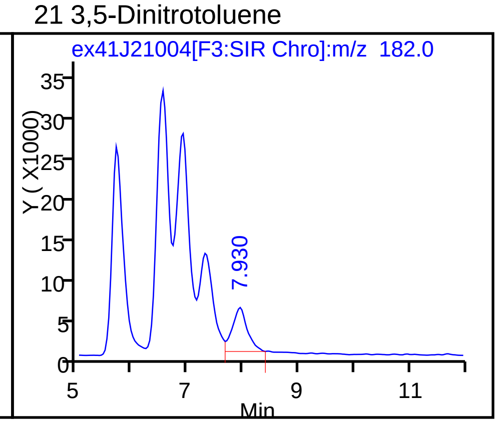
19 2,4-Dinitrotoluene



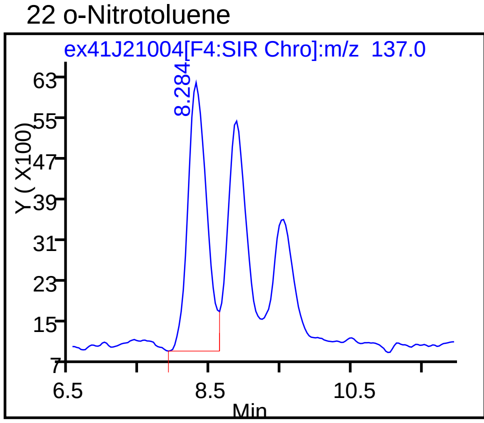
20 PETN



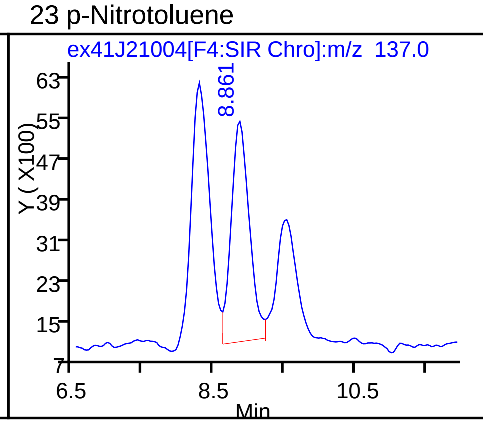
21 3,5-Dinitrotoluene



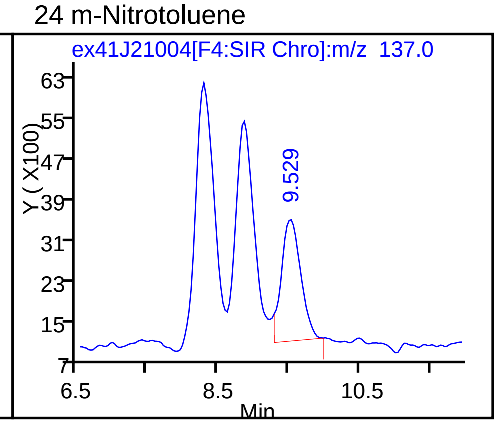
22 o-Nitrotoluene



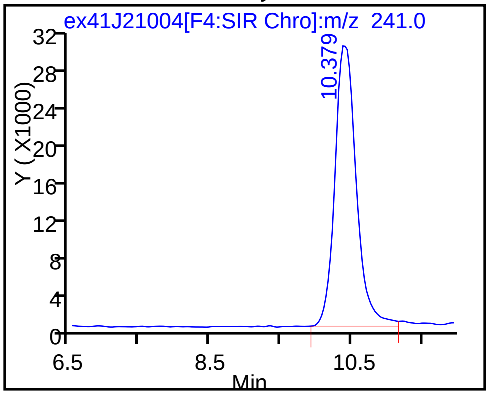
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

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Lims ID: STD025 Client ID:
Inject. Date: 21-Oct-2011 09:55:25 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 10/21/11EX1 STD025 ug/L 280-0002644-003
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 4
Lims Batch ID: 92354 Lims Sample ID: 3
Sublist: chrom-8321exp4-25*sub3
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m
Last Update: 24-Oct-2011 07:32:41 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

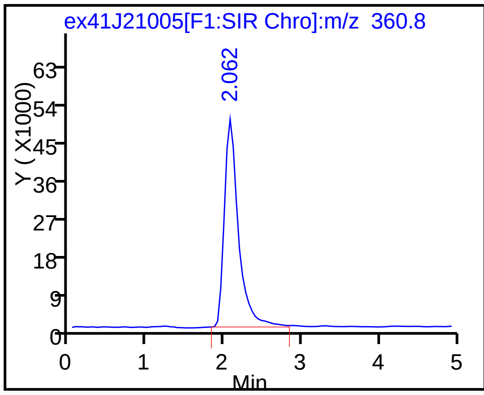
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		639179	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	138769	24.8			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2087714	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	205524	25.6			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.759	0.040	1.000	159749	23.4			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	176105	21.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1610812	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.035	0.033	1.015	175773	25.4			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	957602	23.8			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.439	-0.001	1.089	698359	23.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.540	-0.001	1.109	232688	28.9			
12 Nitrobenzene										
2	123.0	5.674	5.641	0.033	1.136	153111	24.3			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.784	1022004	25.5			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.122	0.034	0.844	496765	24.3			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.563	6.533	0.030	0.900	1344894	25.5			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.745	6.715	0.030	0.925	692097	27.1			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.867	0.030	0.946	1144280	24.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.292	7.231	0.061		4315808	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.322	7.292	0.030	1.004	566101	25.8			
20 PETN										
4	61.8	7.828	7.768	0.060	1.000	1026023	28.9			
21 3,5-Dinitrotoluene										
3	182.0	7.930	7.899	0.031	1.087	233350	21.8			
22 o-Nitrotoluene										
4	137.0	8.345	8.284	0.061	1.000	237241	25.7			
23 p-Nitrotoluene										
4	137.0	8.891	8.831	0.060	1.000	211017	26.0			
24 m-Nitrotoluene										
4	137.0	9.559	9.499	0.060	1.000	132243	26.0			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.440	10.379	0.061	1.000	1866601	27.1			

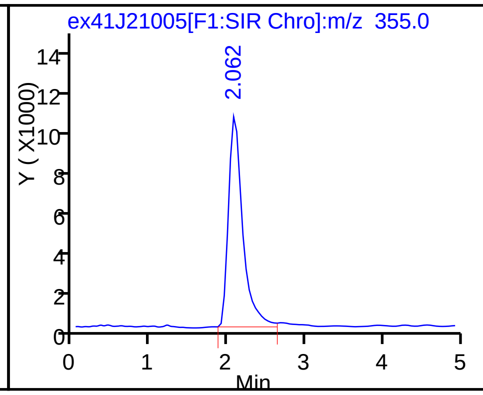
Report Date: 24-Oct-2011 07:32:41 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21005.d

Injection Date:	21-Oct-2011 09:55:25	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	3
Operator ID:		Injection Vol:	40.00 ul

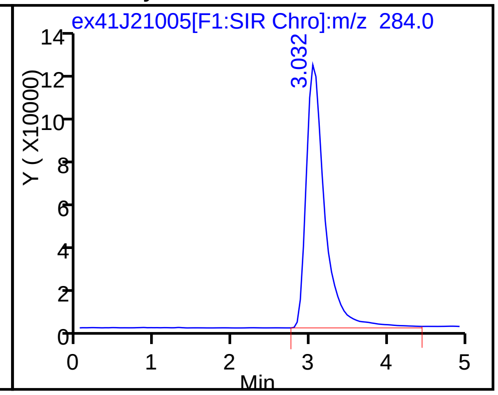
* 1 HMX-13C4



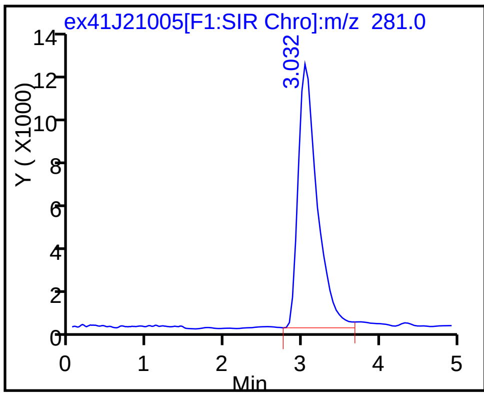
2 HMX



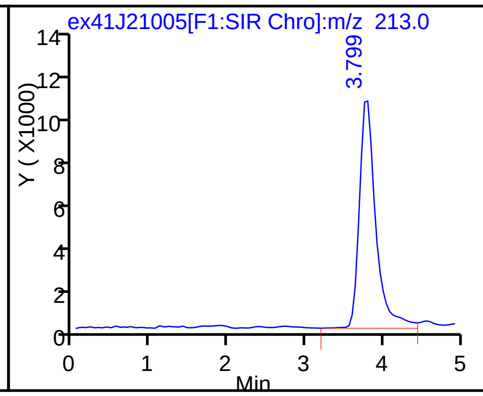
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



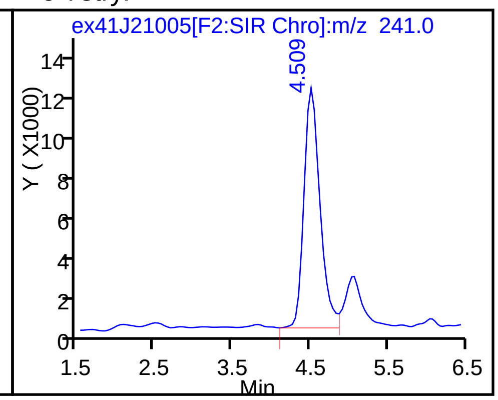
4 RDX



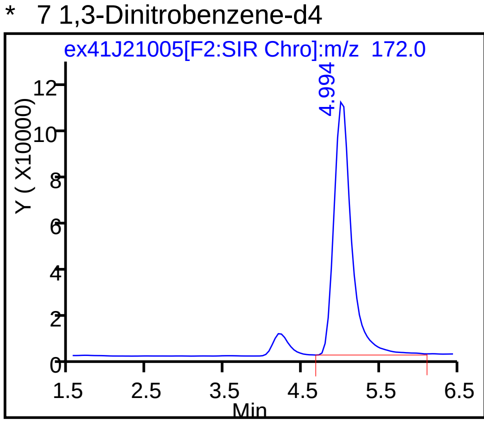
5 1,3,5-Trinitrobenzene



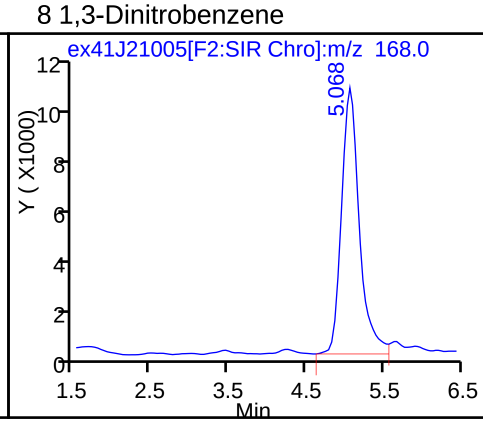
6 Tetryl



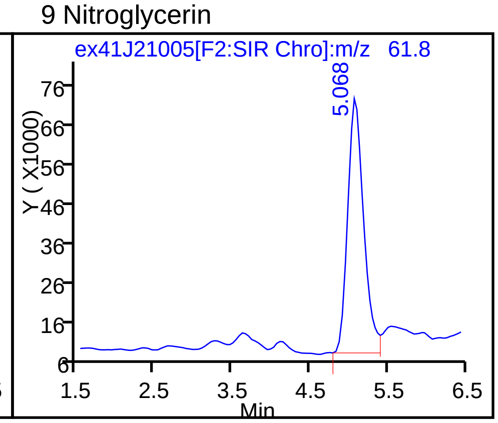
* 7 1,3-Dinitrobenzene-d4



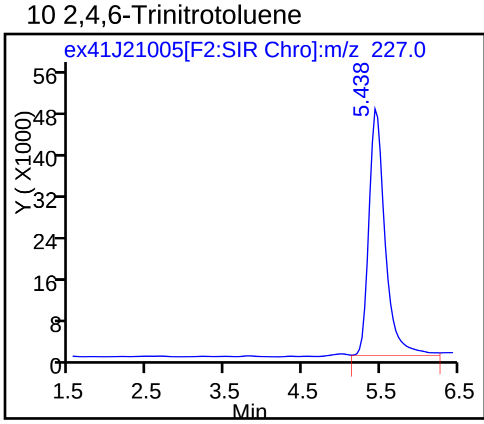
8 1,3-Dinitrobenzene



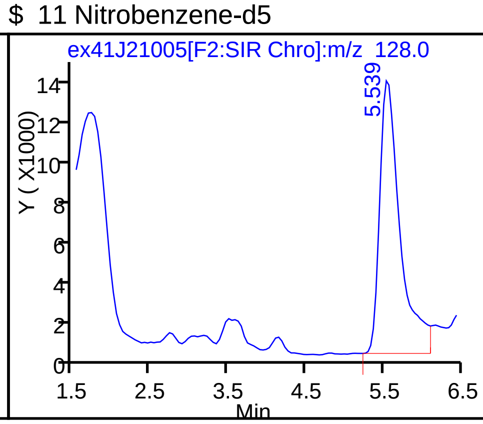
9 Nitroglycerin



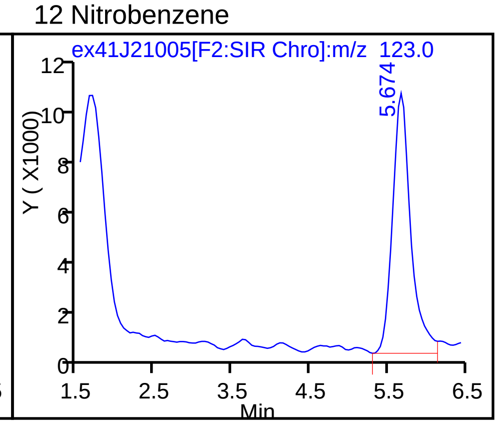
10 2,4,6-Trinitrotoluene



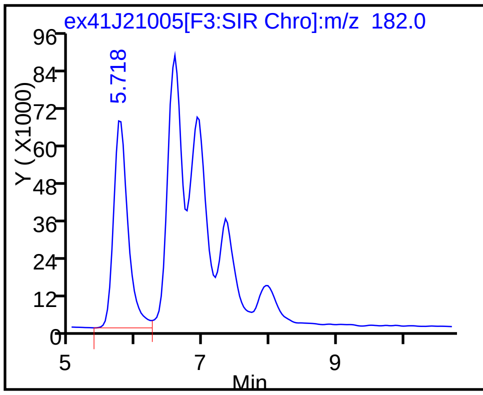
$ 11 Nitrobenzene-d5



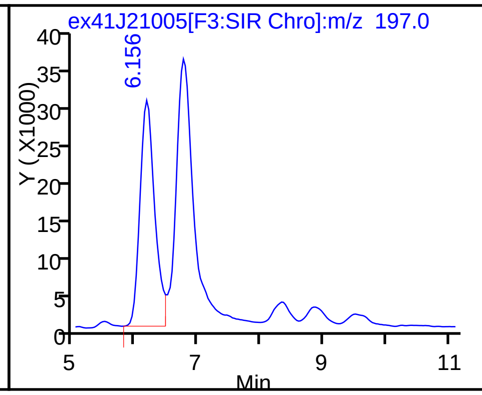
12 Nitrobenzene



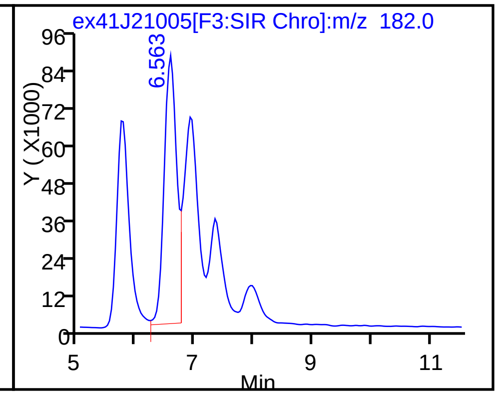
13 3,4-Dinitrotoluene



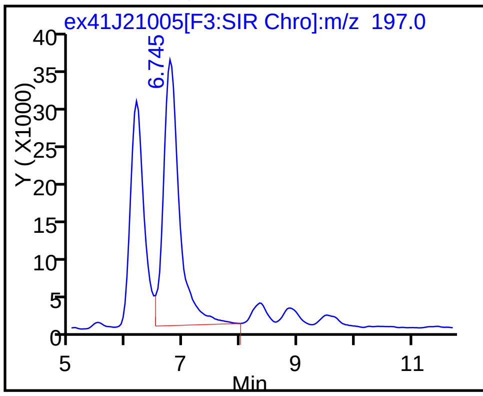
14 4-Amino-2,6-dinitrotoluene



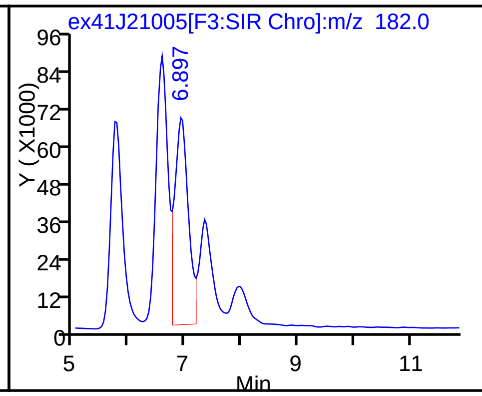
15 2,3-Dinitrotoluene



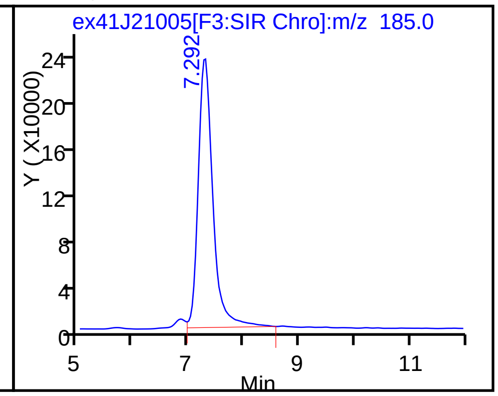
16 2-Amino-4,6-dinitrotoluene



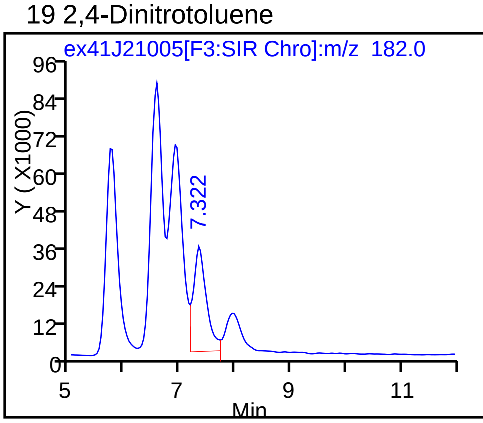
17 2,6-Dinitrotoluene



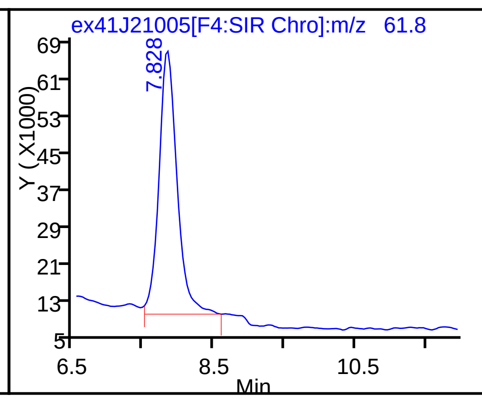
* 18 2,4-dinitrotoluene-d3



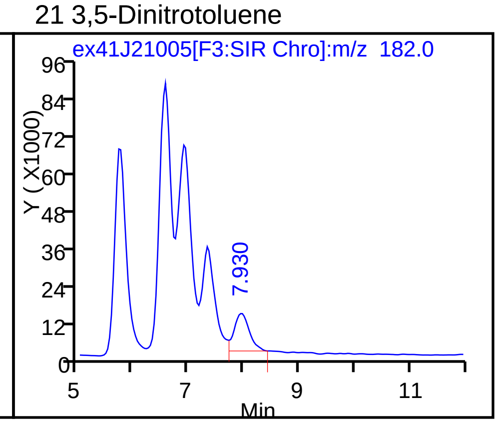
19 2,4-Dinitrotoluene



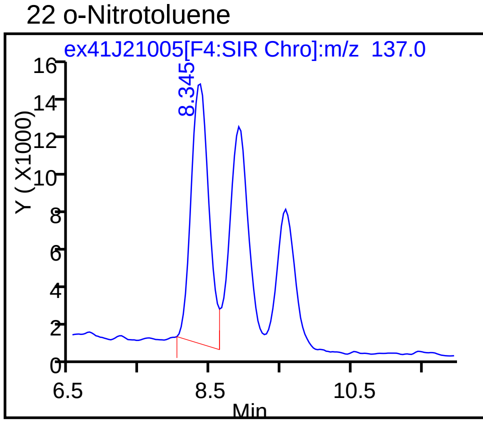
20 PETN



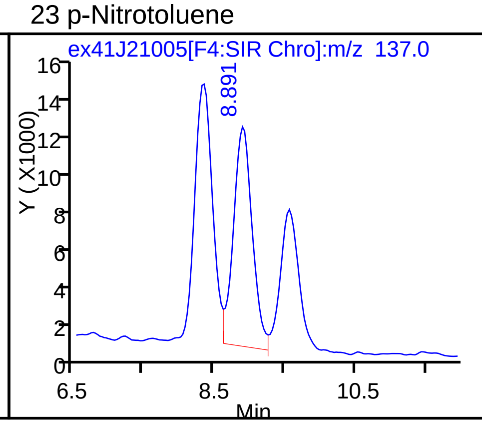
21 3,5-Dinitrotoluene



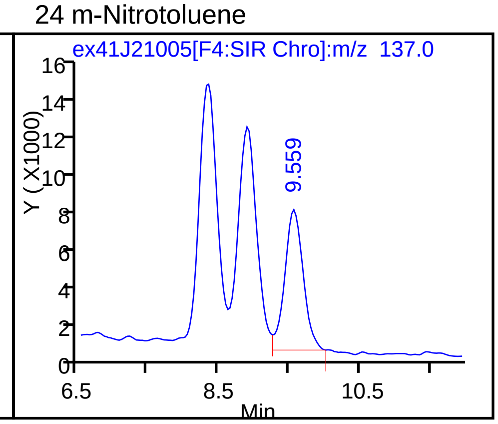
22 o-Nitrotoluene



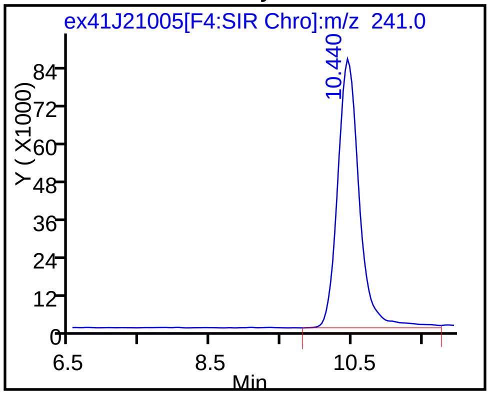
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

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Inject. Date:	21-Oct-2011 10:08:59	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	10/21/11EX1 STD050 ug/L 280-0002644-004		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	92354	Lims Sample ID:	4
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:42	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

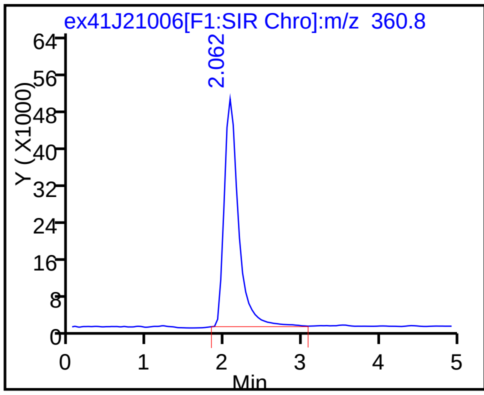
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		649153	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	268387	46.5			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2286407	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	462065	52.9			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	325370	41.0			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	391461	42.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1788911	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.068	0.000	1.015	364698	47.1			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	2063587	45.1			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.089	1592359	46.8			
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.540	0.000	1.109	388797	43.7			
12 Nitrobenzene										
2	123.0	5.674	5.674	0.000	1.136	317143	45.2			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.787	2459914	52.4			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.156	0.000	0.848	1213347	50.3			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.563	6.563	0.000	0.904	3304020	53.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.745	6.745	0.000	0.929	1635187	54.7			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.897	0.000	0.950	2749675	50.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.261	7.261	0.000		5077733	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.353	7.353	0.000	1.013	1368284	52.9			
20 PETN										
4	61.8	7.828	7.828	0.000	1.000	2130938	52.5			
21 3,5-Dinitrotoluene										
3	182.0	7.960	7.960	0.000	1.096	611884	47.0			
22 o-Nitrotoluene										
4	137.0	8.345	8.345	0.000	1.000	522289	48.2			
23 p-Nitrotoluene										
4	137.0	8.891	8.891	0.000	1.000	461884	48.1			
24 m-Nitrotoluene										
4	137.0	9.559	9.559	0.000	1.000	294700	49.5			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.440	10.440	0.000	1.000	3560004	46.5			

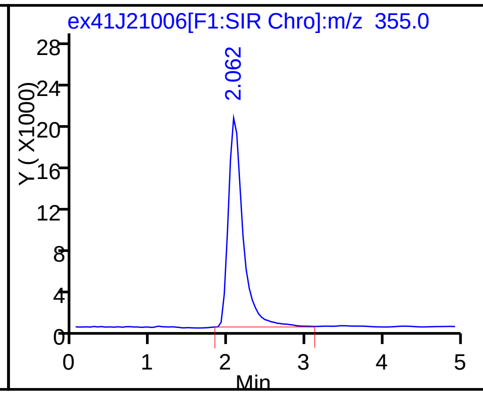
Report Date: 24-Oct-2011 07:32:42 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21006.d

Injection Date:	21-Oct-2011 10:08:59	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	4
Operator ID:		Injection Vol:	40.00 ul

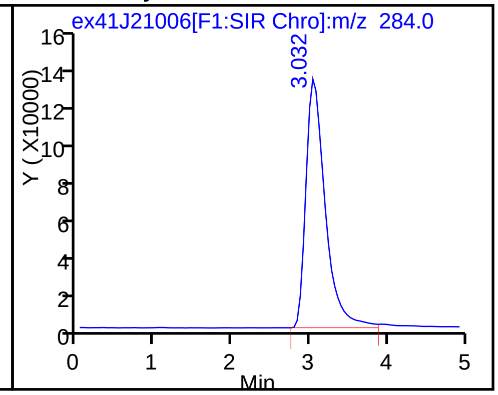
* 1 HMX-13C4



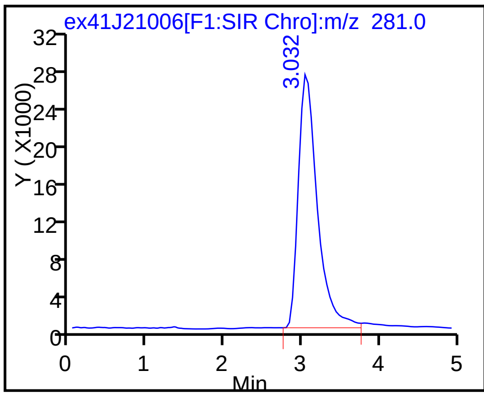
2 HMX



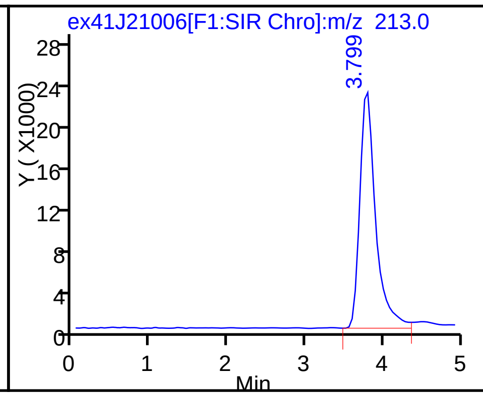
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



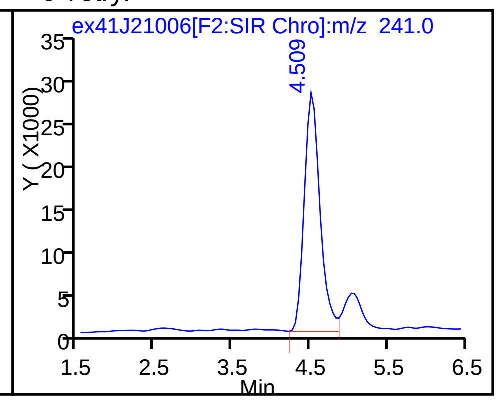
4 RDX



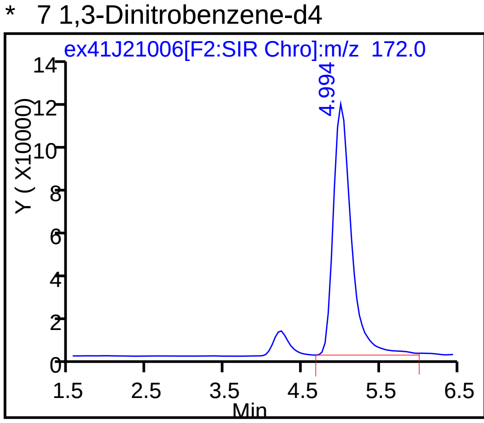
5 1,3,5-Trinitrobenzene



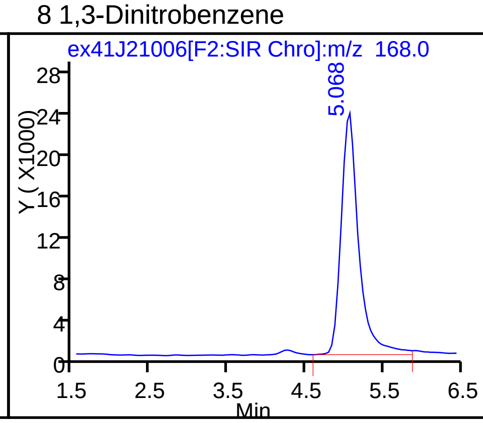
6 Tetryl



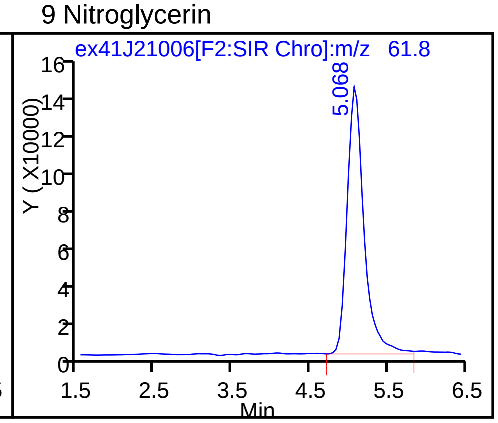
* 7 1,3-Dinitrobenzene-d4



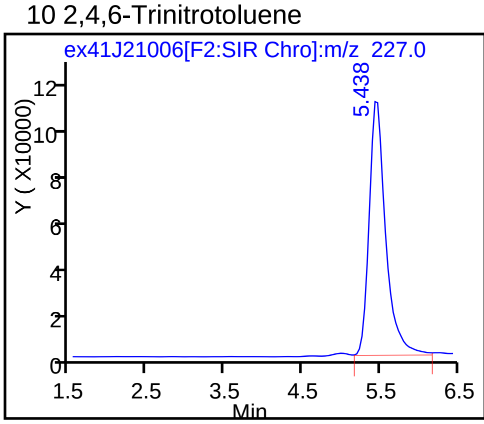
8 1,3-Dinitrobenzene



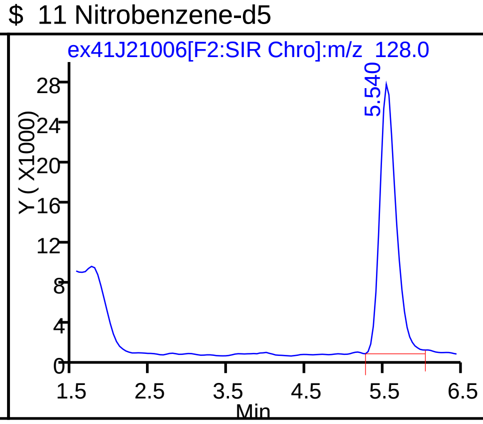
9 Nitroglycerin



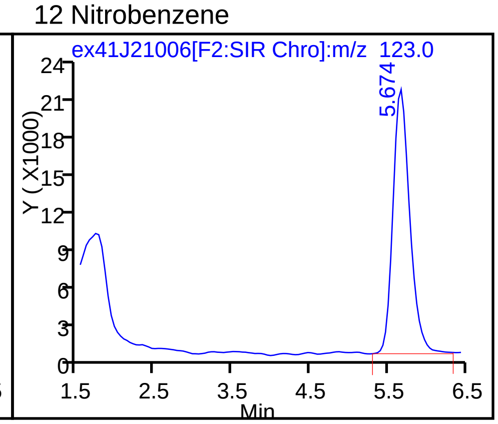
10 2,4,6-Trinitrotoluene



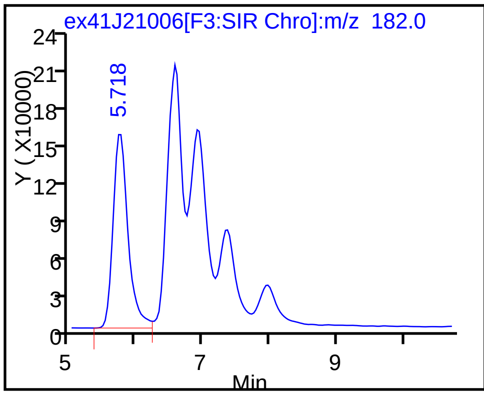
$ 11 Nitrobenzene-d5



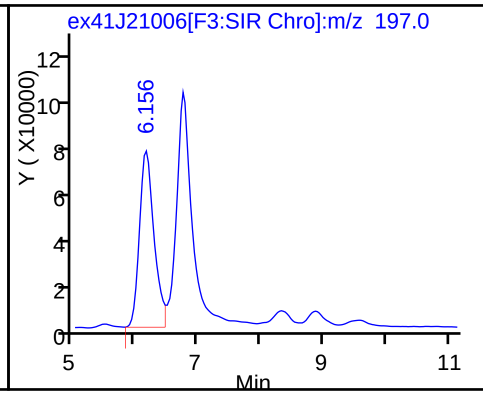
12 Nitrobenzene



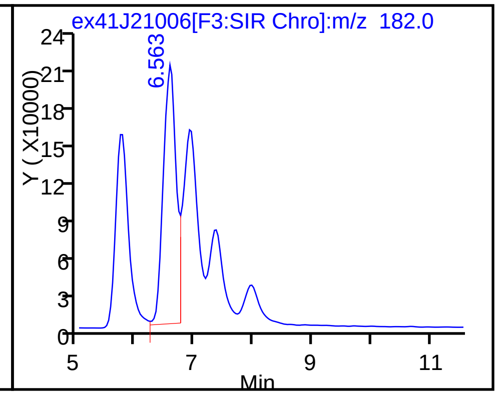
13 3,4-Dinitrotoluene



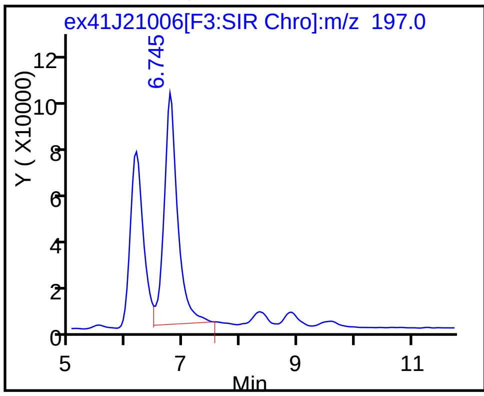
14 4-Amino-2,6-dinitrotoluene



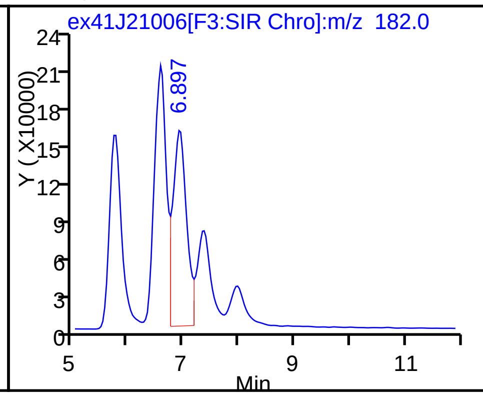
15 2,3-Dinitrotoluene



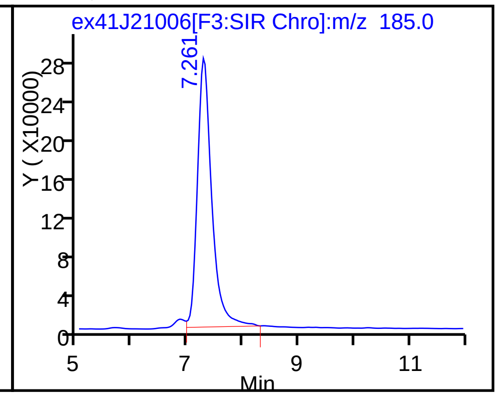
16 2-Amino-4,6-dinitrotoluene



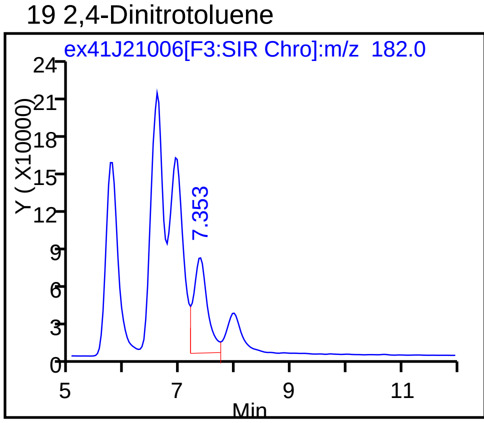
17 2,6-Dinitrotoluene



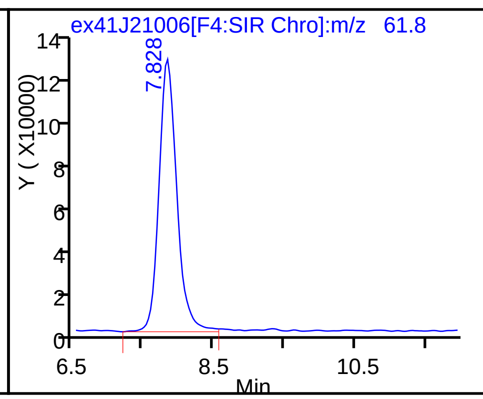
* 18 2,4-dinitrotoluene-d3



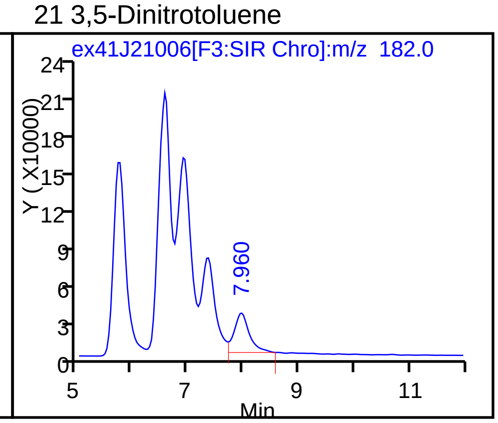
19 2,4-Dinitrotoluene



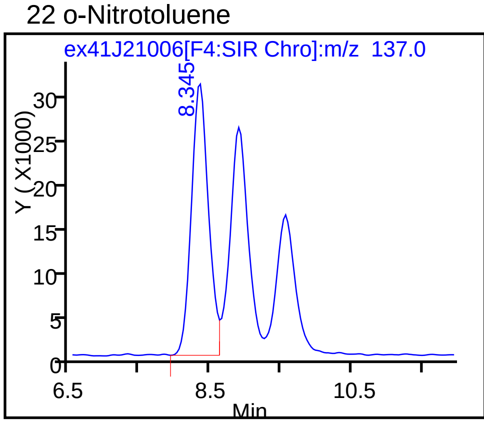
20 PETN



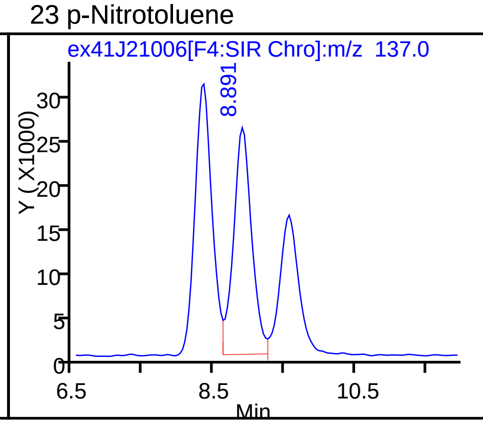
21 3,5-Dinitrotoluene



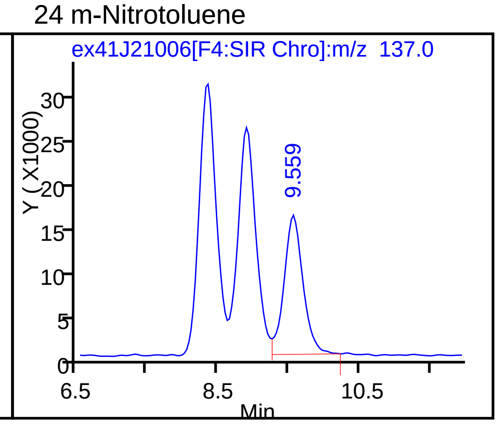
22 o-Nitrotoluene



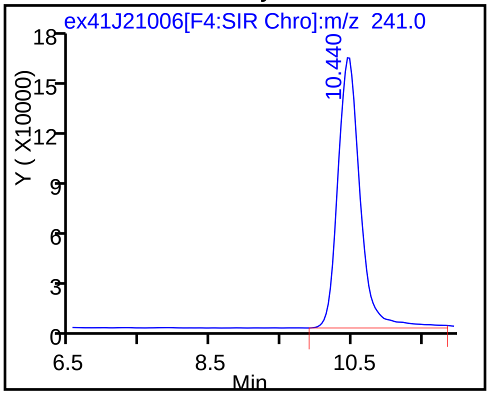
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

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Inject. Date:	21-Oct-2011 10:22:50	Dil. Factor:	1.0000
Sample Type:	ICISAV	Calib Level:	5
Sample ID:	10/21/11EX1 STD100 ug/L 280-0002644-005		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	92354	Lims Sample ID:	5
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:44	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		573478	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	516486	100.4			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2201322	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	847609	101.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	671081	98.0			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	838121	105.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1489968	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.008	687743	106.2			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	3934172	101.7			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.439	0.000	1.089	3111149	109.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.540	0.000	1.109	737235	100.3			
12 Nitrobenzene										
2	123.0	5.641	5.641	0.000	1.129	593466	101.4			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.787	4418559	98.1			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.843	2352065	101.3			

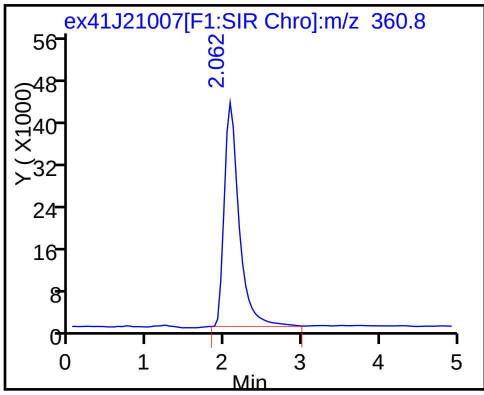
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.533	6.533	0.000	0.900	5891593	99.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.925	2662321	92.9			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.897	0.000	0.950	4901609	94.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.261	7.261	0.000		4882519	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.322	7.322	0.000	1.008	2408469	96.7			
20 PETN										
4	61.8	7.798	7.798	0.000	1.000	3911608	102.1			
21 3,5-Dinitrotoluene										
3	182.0	7.930	7.930	0.000	1.092	1246969	98.2			
22 o-Nitrotoluene										
4	137.0	8.314	8.314	0.000	1.000	991158	95.4			
23 p-Nitrotoluene										
4	137.0	8.861	8.861	0.000	1.000	877872	94.8			
24 m-Nitrotoluene										
4	137.0	9.529	9.529	0.000	1.000	549697	96.1			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.440	10.440	0.000	1.000	6852029	107.4			

Report Date: 24-Oct-2011 07:32:44 Chrom Revision: 1.2 13-Jul-2011 10:43:06

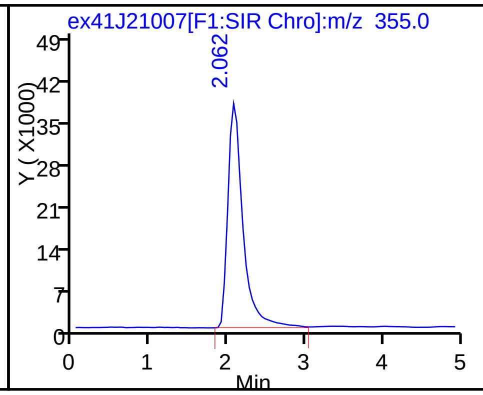
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21007.d

Injection Date:	21-Oct-2011 10:22:50	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	5
Operator ID:		Injection Vol:	40.00 ul

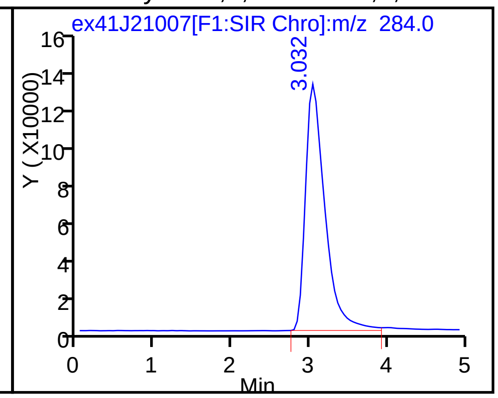
* 1 HMX-13C4



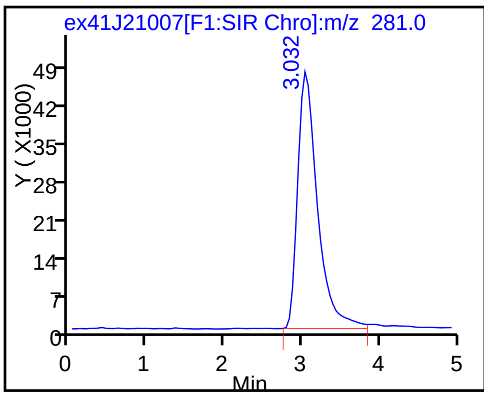
2 HMX



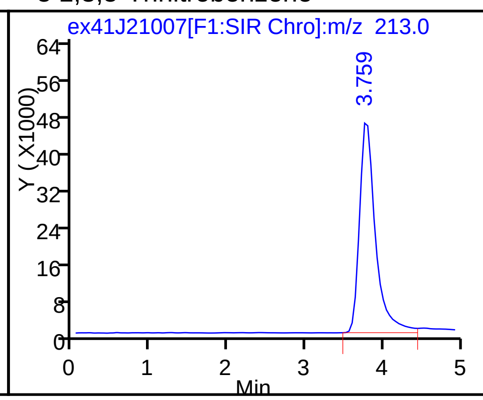
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



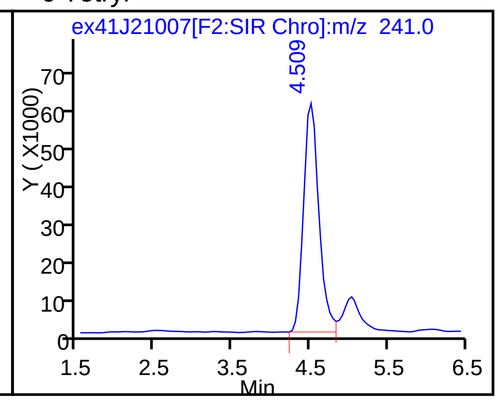
4 RDX



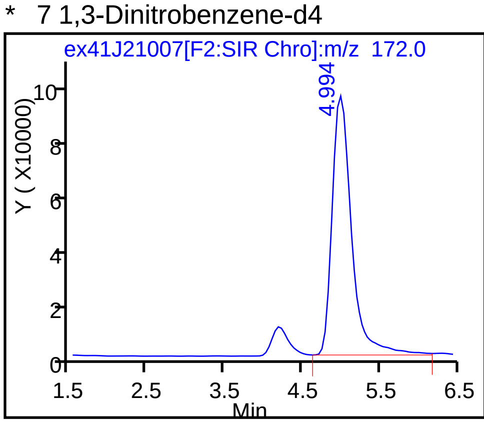
5 1,3,5-Trinitrobenzene



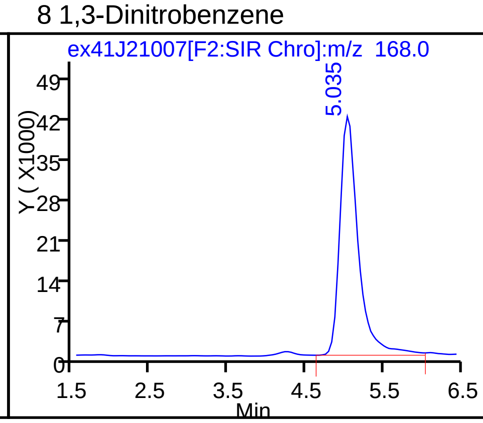
6 Tetryl



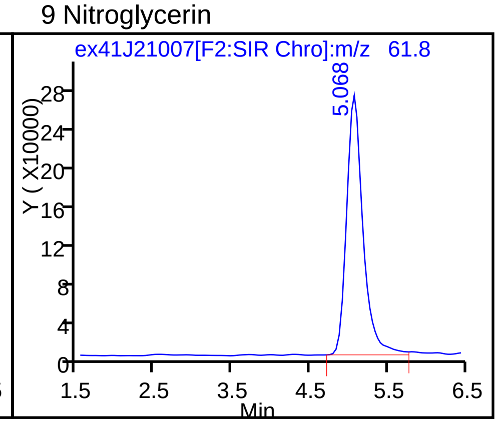
* 7 1,3-Dinitrobenzene-d4



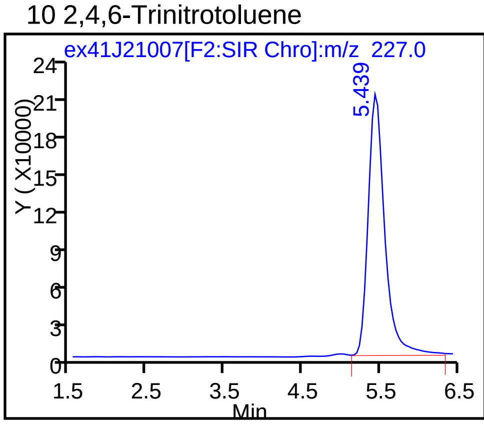
8 1,3-Dinitrobenzene



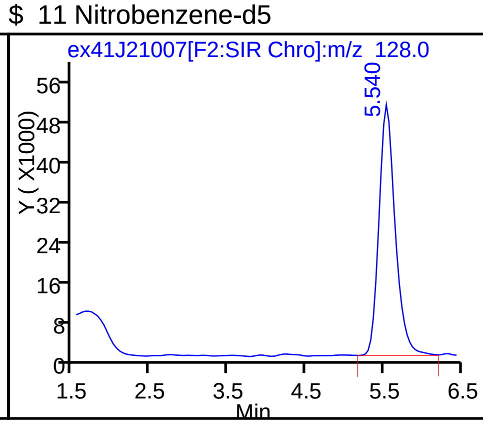
9 Nitroglycerin



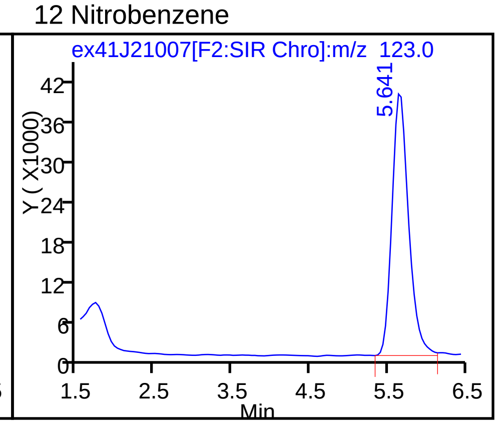
10 2,4,6-Trinitrotoluene



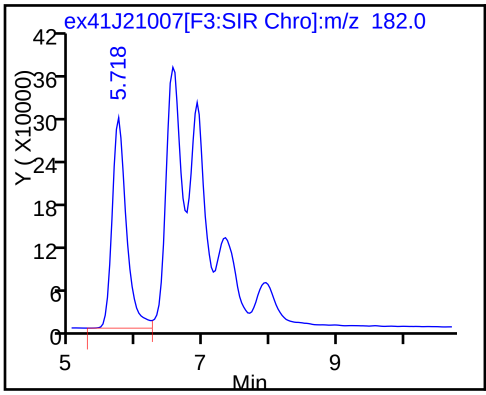
$ 11 Nitrobenzene-d5



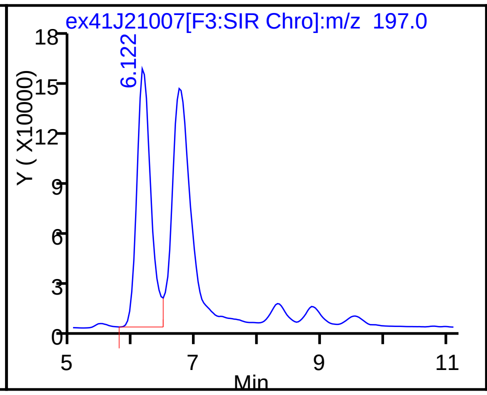
12 Nitrobenzene



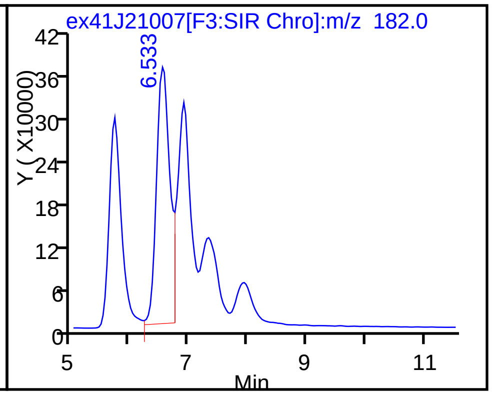
13 3,4-Dinitrotoluene



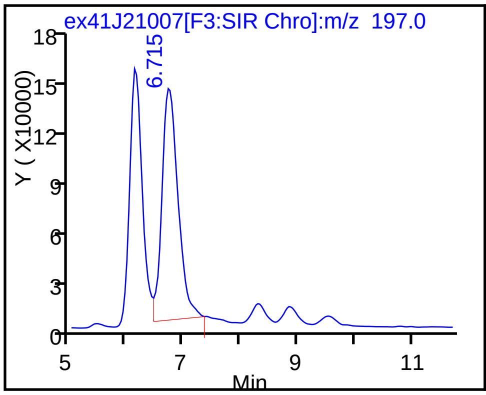
14 4-Amino-2,6-dinitrotoluene



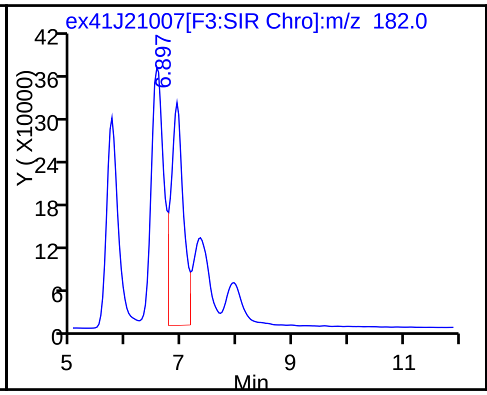
15 2,3-Dinitrotoluene



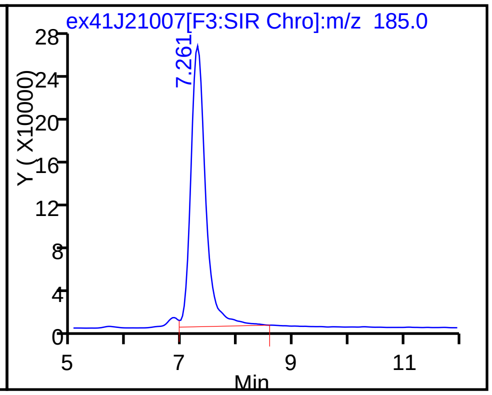
16 2-Amino-4,6-dinitrotoluene



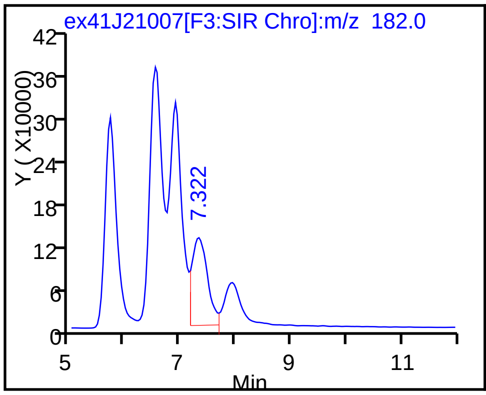
17 2,6-Dinitrotoluene



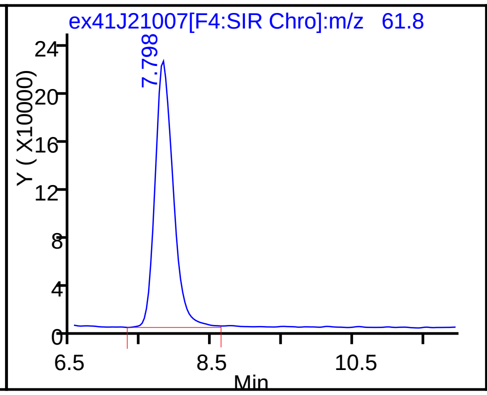
* 18 2,4-dinitrotoluene-d3



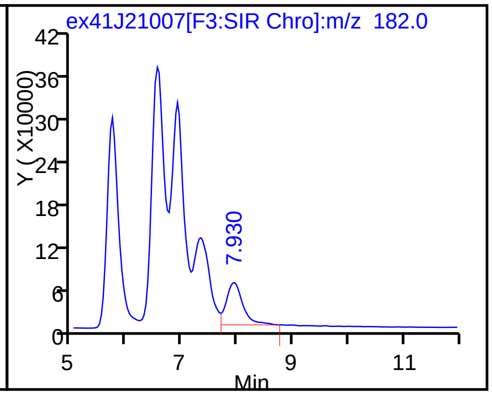
19 2,4-Dinitrotoluene



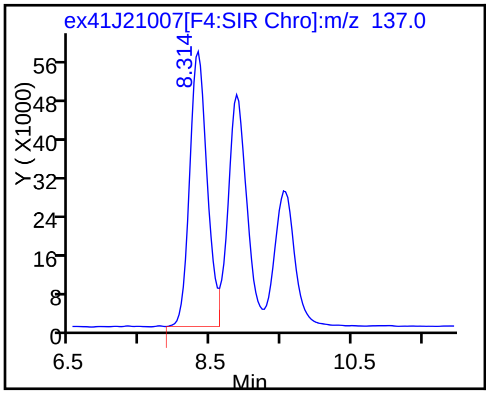
20 PETN



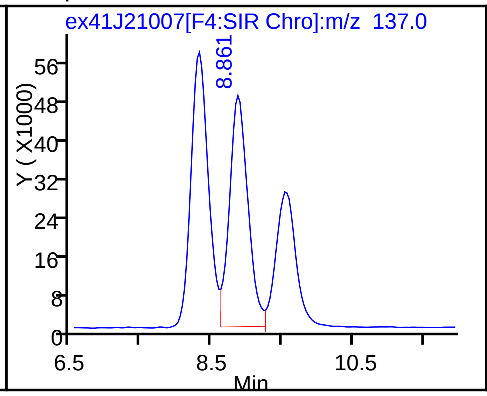
21 3,5-Dinitrotoluene



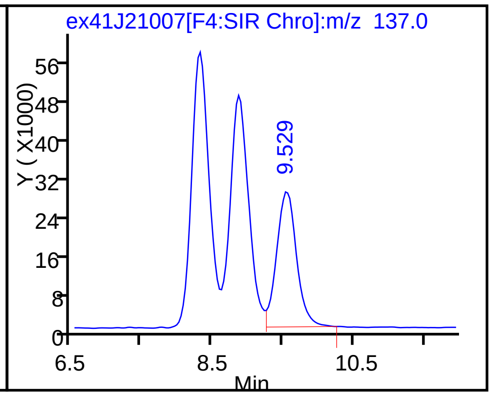
22 o-Nitrotoluene



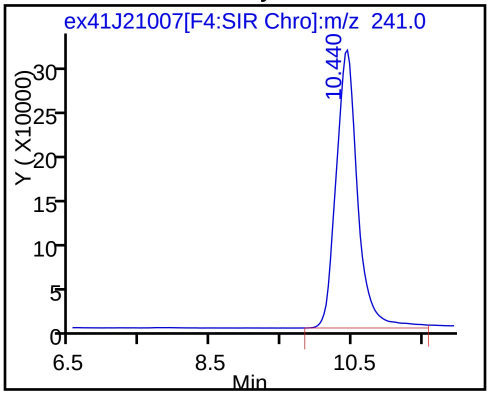
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

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Lims ID:	STD200	Client ID:	
Inject. Date:	21-Oct-2011 10:36:39	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	10/21/11EX1 STD200 ug/L 280-0002644-006		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	7
Lims Batch ID:	92354	Lims Sample ID:	6
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:45	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

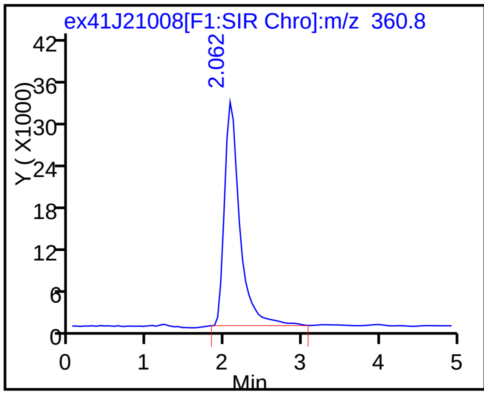
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		445491	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	810121	202.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1895525	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1408872	195.3			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	1424958	221.0			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	1580104	211.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1384736	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.068	-0.033	1.008	1220565	202.4			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	7174376	198.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.438	0.001	1.089	5490351	206.4			
$ 11 Nitrobenzene-d5										
2	128.0	5.573	5.540	0.033	1.116	1440792	211.5			
12 Nitrobenzene										
2	123.0	5.674	5.674	0.000	1.136	1127345	207.1			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.787	8250055	209.4			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.156	0.000	0.848	4024449	197.7			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.533	6.563	-0.030	0.900	10956168	211.8			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.745	-0.030	0.925	5376786	214.6			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.897	0.000	0.950	9088816	199.7			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.261	0.001		4276759	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.322	7.353	-0.031	1.008	4437530	203.1			
20 PETN										
4	61.8	7.828	7.828	0.000	1.000	6974193	209.8			
21 3,5-Dinitrotoluene										
3	182.0	7.930	7.960	-0.030	1.092	2487075	222.0			
22 o-Nitrotoluene										
4	137.0	8.314	8.345	-0.031	1.000	1856989	204.2			
23 p-Nitrotoluene										
4	137.0	8.891	8.891	0.000	1.000	1654035	203.6			
24 m-Nitrotoluene										
4	137.0	9.559	9.559	0.000	1.000	1016967	203.1			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.440	10.440	0.000	1.000	12130142	204.5			

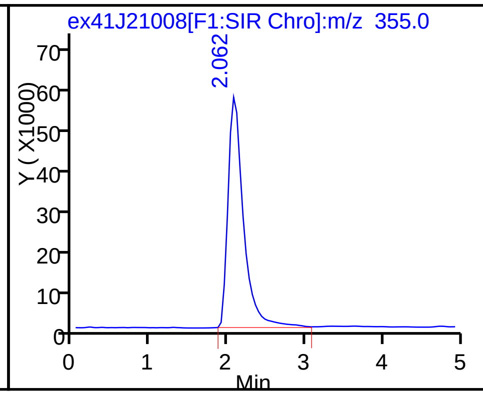
Report Date: 24-Oct-2011 07:32:45   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21008.d

Injection Date:	21-Oct-2011 10:36:39	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	6
Operator ID:		Injection Vol:	40.00 ul

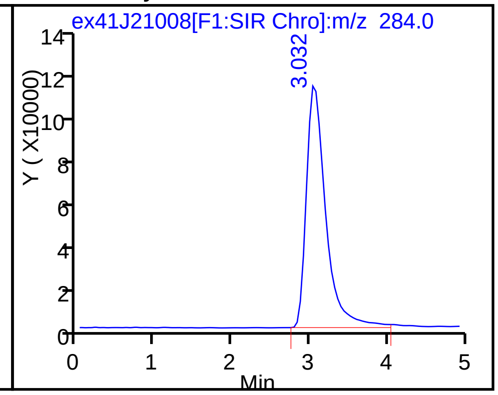
* 1 HMX-13C4



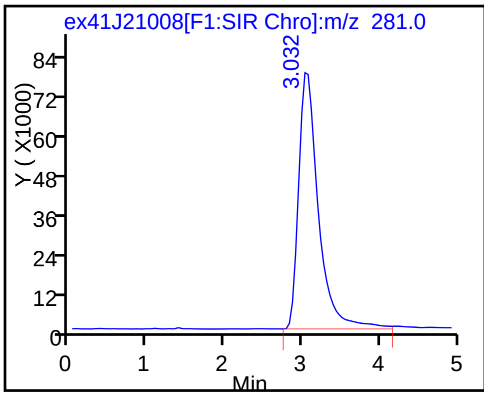
2 HMX



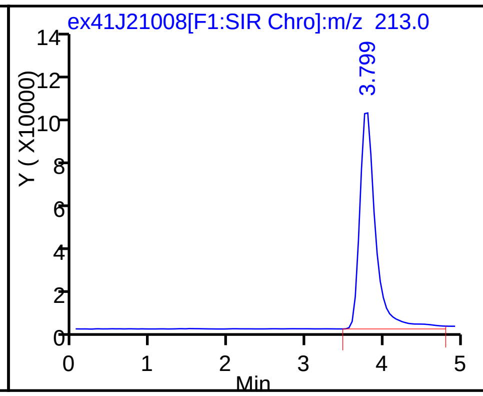
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



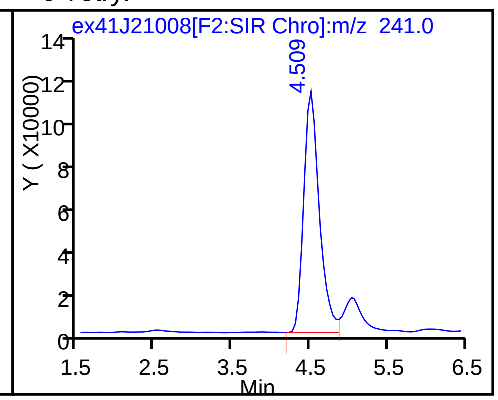
4 RDX



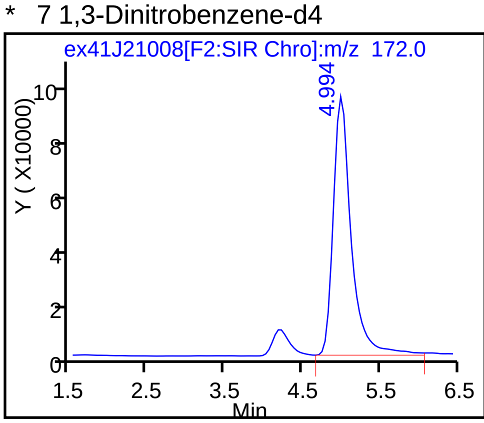
5 1,3,5-Trinitrobenzene



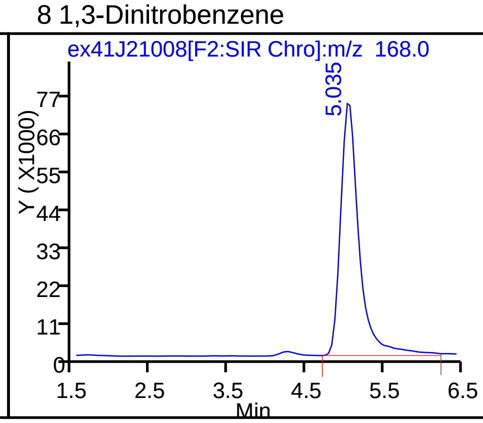
6 Tetryl



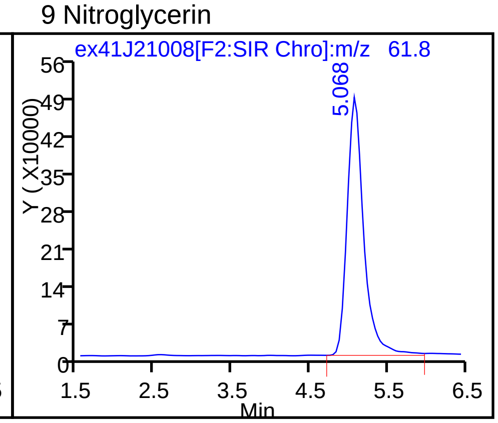
* 7 1,3-Dinitrobenzene-d4



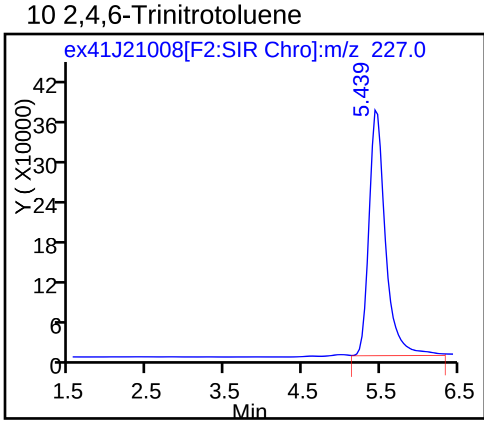
8 1,3-Dinitrobenzene



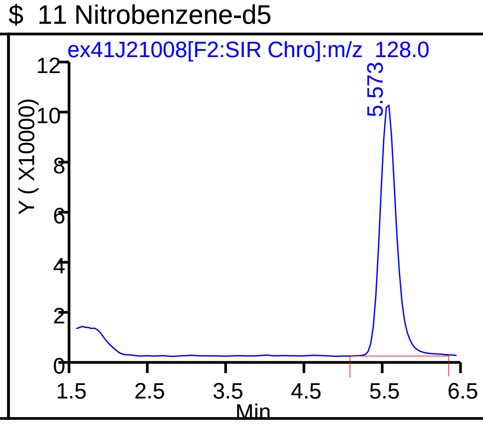
9 Nitroglycerin



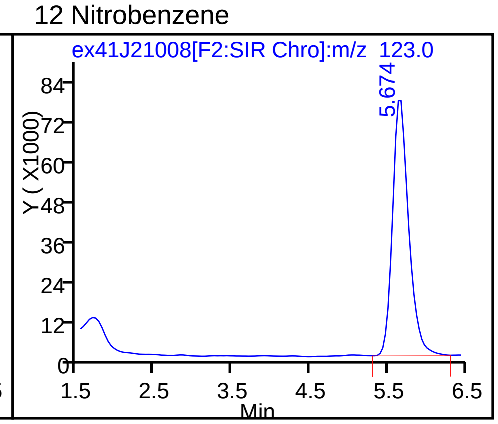
10 2,4,6-Trinitrotoluene



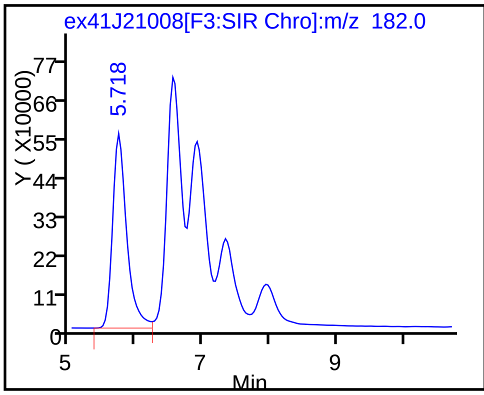
$ 11 Nitrobenzene-d5



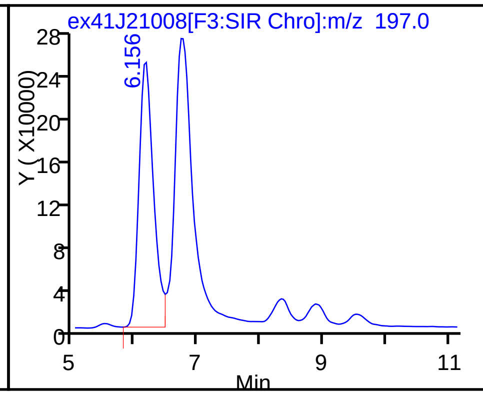
12 Nitrobenzene



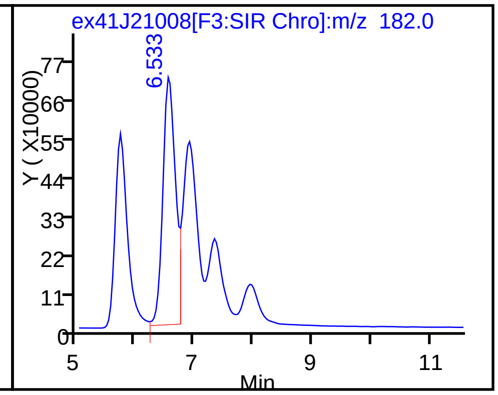
13 3,4-Dinitrotoluene



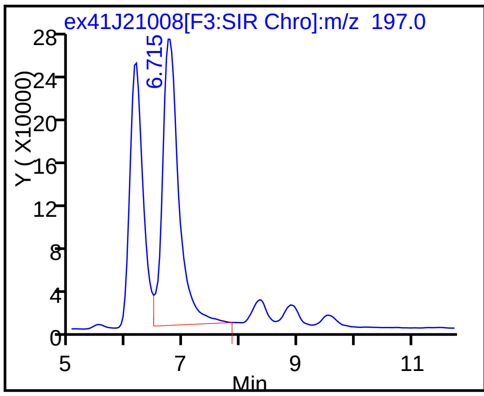
14 4-Amino-2,6-dinitrotoluene



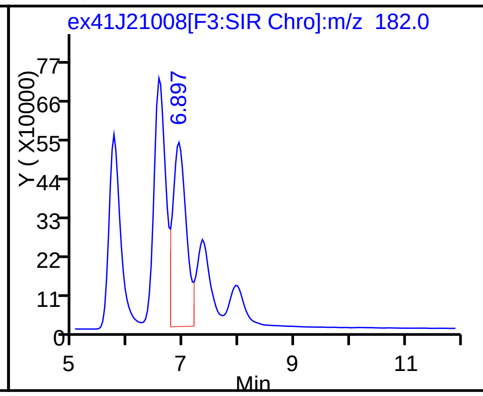
15 2,3-Dinitrotoluene



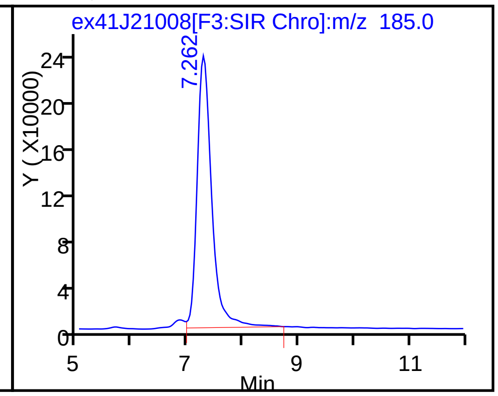
16 2-Amino-4,6-dinitrotoluene



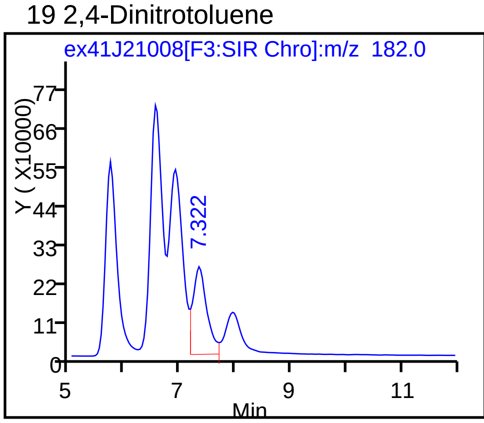
17 2,6-Dinitrotoluene



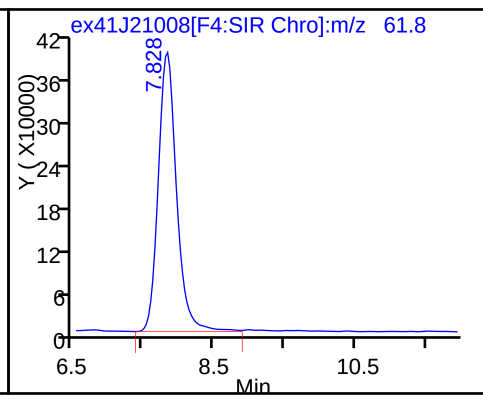
* 18 2,4-dinitrotoluene-d3



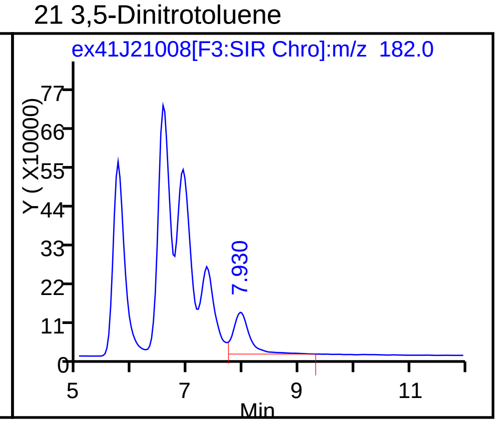
19 2,4-Dinitrotoluene



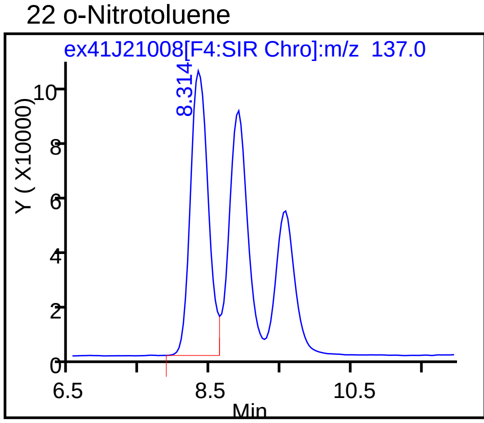
20 PETN



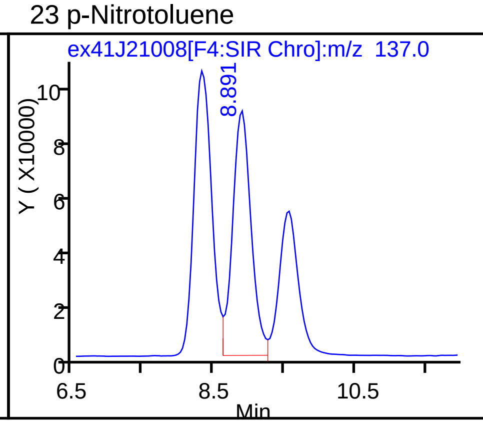
21 3,5-Dinitrotoluene



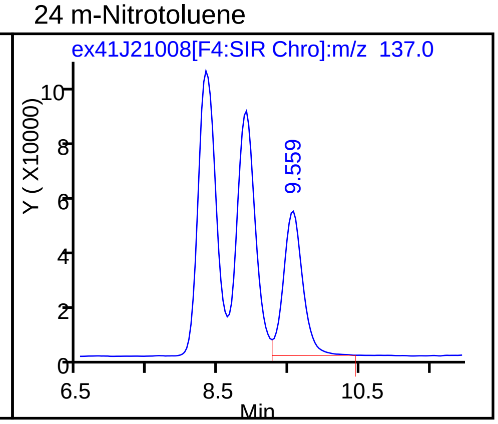
22 o-Nitrotoluene



23 p-Nitrotoluene

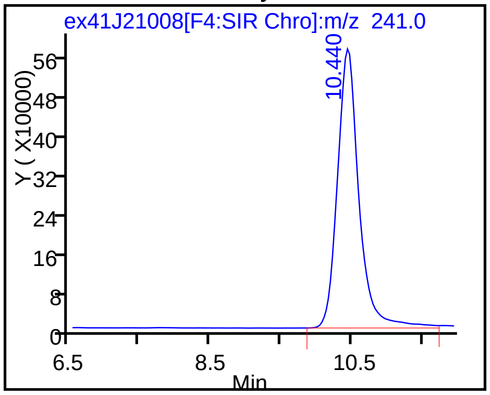


24 m-Nitrotoluene



Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21008.d

25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Lims ID:	STD300	Client ID:	
Inject. Date:	21-Oct-2011 10:50:13	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	10/21/11EX1 STD300 ug/L 280-0002644-007		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	8
Lims Batch ID:	92354	Lims Sample ID:	7
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:46	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	21-Oct-2011 11:09:16

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		355205	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	965254	301.4			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1807306	250.0			
4 RDX										
1	281.0	3.072	3.032	0.040	1.013	2008053	292.1			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	1920435	291.2			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	2214425	289.5			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1412481	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.068	0.000	1.015	1867624	303.4			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	11292599	305.6			
10 2,4,6-Trinitrotoluene										
2	227.0	5.472	5.438	0.034	1.096	7879891	290.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.540	0.000	1.109	2019931	291.0			
12 Nitrobenzene										
2	123.0	5.674	5.674	0.000	1.136	1645655	296.3			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.787	11687210	290.5			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.156	0.000	0.848	6089652	292.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.563	6.563	0.000	0.904	15067138	285.2			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.746	6.745	0.001	0.929	7352568	287.3			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.897	0.000	0.950	14211297	305.7			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.261	0.001		4368716	250.0			
19 2,4-Dinitrotoluene										M
3	182.0	7.353	7.353	0.000	1.013	6670517	298.8			M
20 PETN										
4	61.8	7.828	7.828	0.000	1.000	9539084	281.6			
21 3,5-Dinitrotoluene										
3	182.0	7.930	7.960	-0.030	1.092	3267415	285.2			
22 o-Nitrotoluene										
4	137.0	8.345	8.345	0.000	1.000	2739568	295.1			
23 p-Nitrotoluene										
4	137.0	8.891	8.891	0.000	1.000	2483358	299.1			
24 m-Nitrotoluene										
4	137.0	9.559	9.559	0.000	1.000	1497484	292.9			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.440	10.440	0.000	1.000	17542899	289.8			

QC Flag Legend

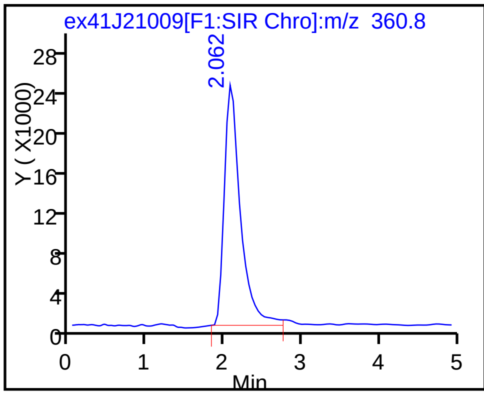
Review Flags
M - Manually Integrated

Report Date: 24-Oct-2011 07:32:46 Chrom Revision: 1.2 13-Jul-2011 10:43:06

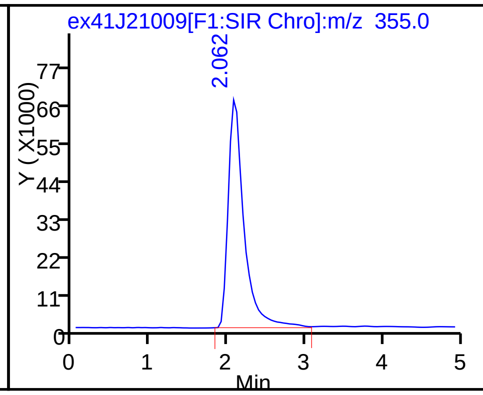
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d

Injection Date:	21-Oct-2011 10:50:13	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	7
Operator ID:		Injection Vol:	40.00 ul

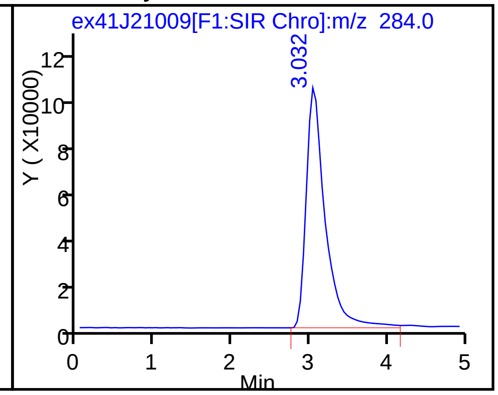
* 1 HMX-13C4



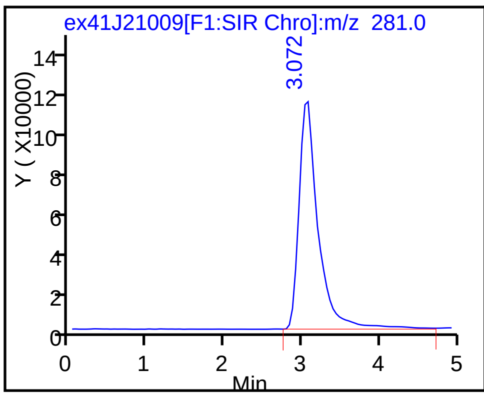
2 HMX



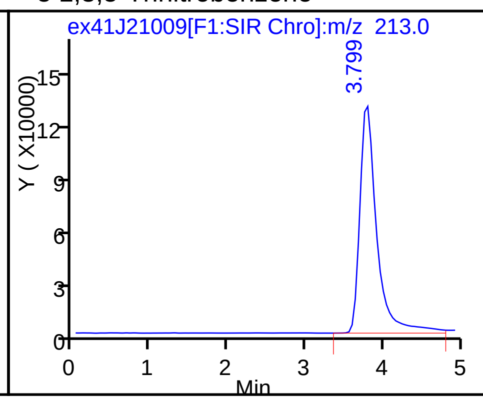
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



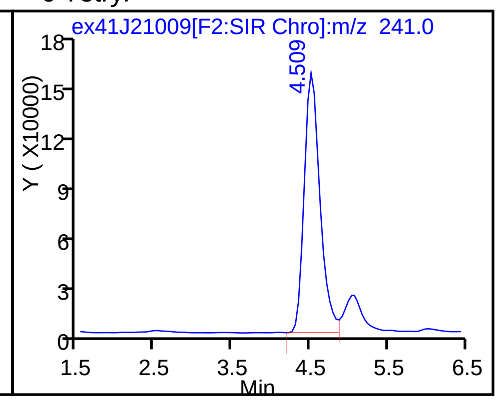
4 RDX



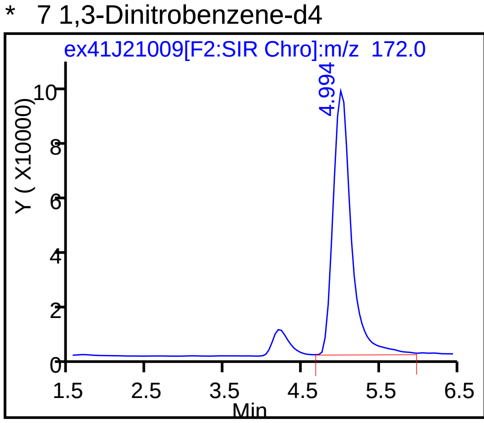
5 1,3,5-Trinitrobenzene



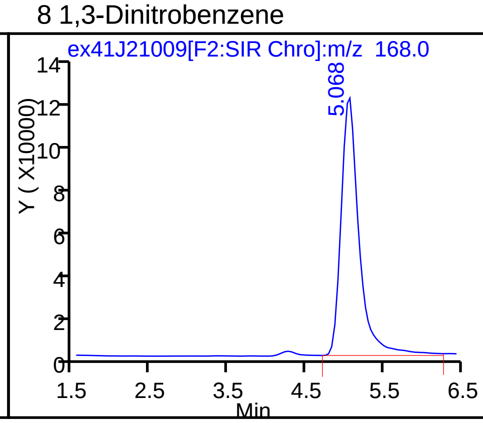
6 Tetryl



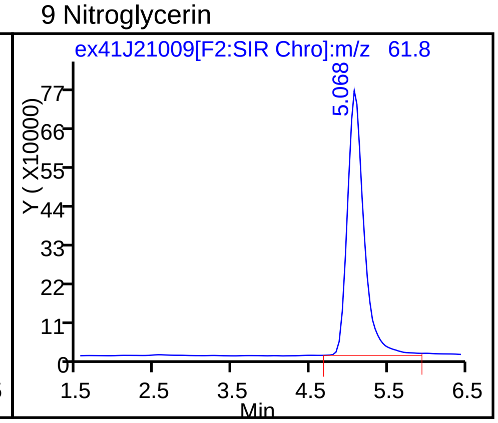
* 7 1,3-Dinitrobenzene-d4



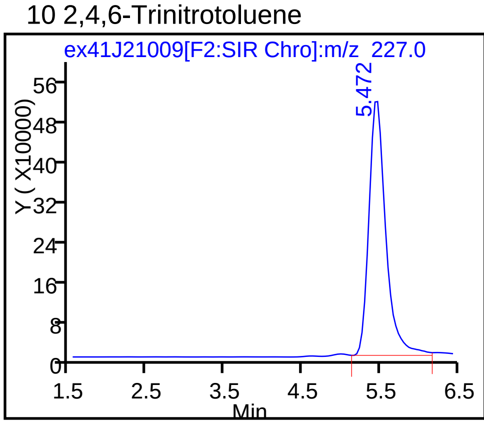
8 1,3-Dinitrobenzene



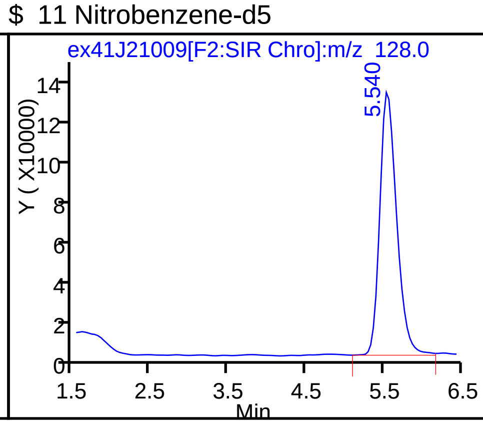
9 Nitroglycerin



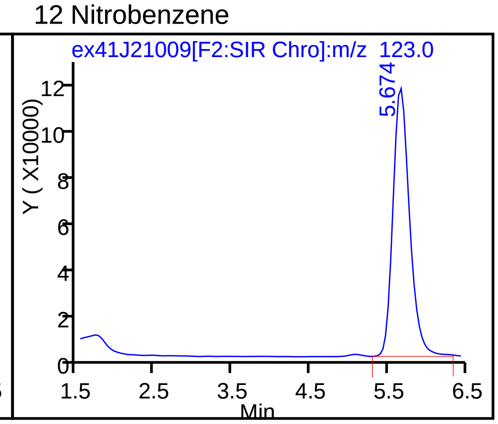
10 2,4,6-Trinitrotoluene



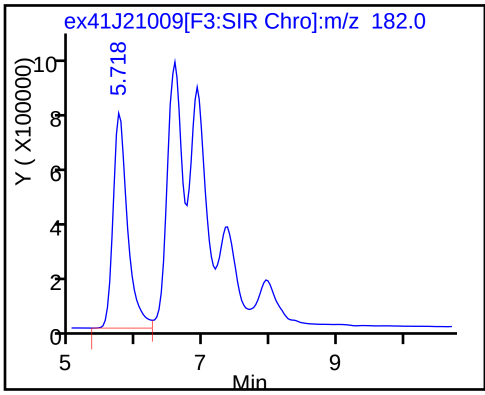
$ 11 Nitrobenzene-d5



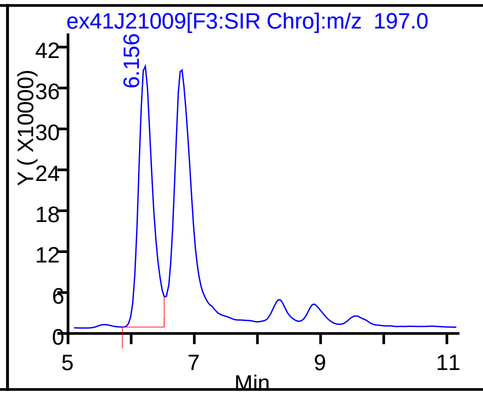
12 Nitrobenzene



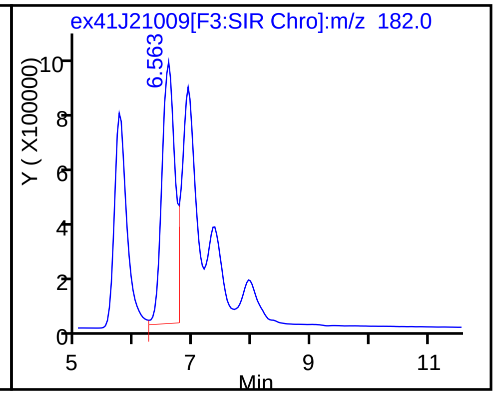
13 3,4-Dinitrotoluene



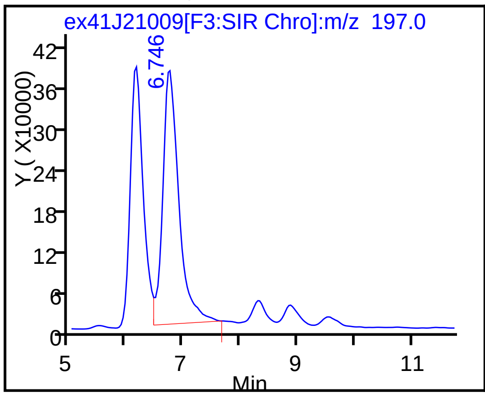
14 4-Amino-2,6-dinitrotoluene



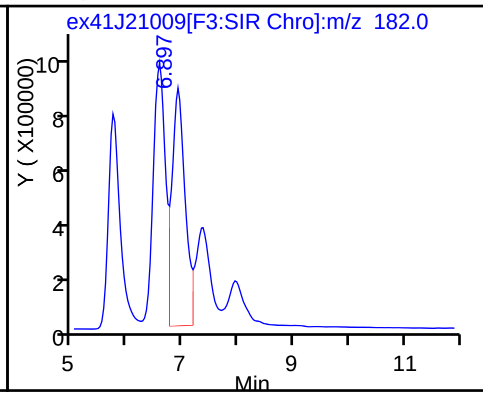
15 2,3-Dinitrotoluene



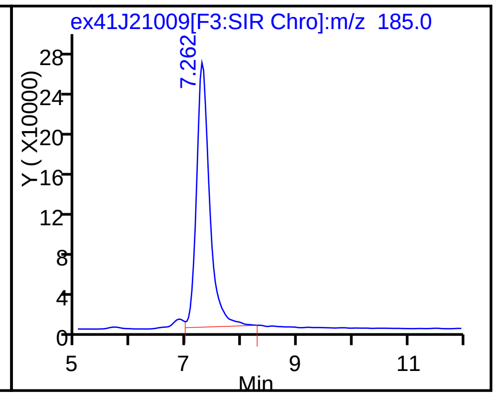
16 2-Amino-4,6-dinitrotoluene



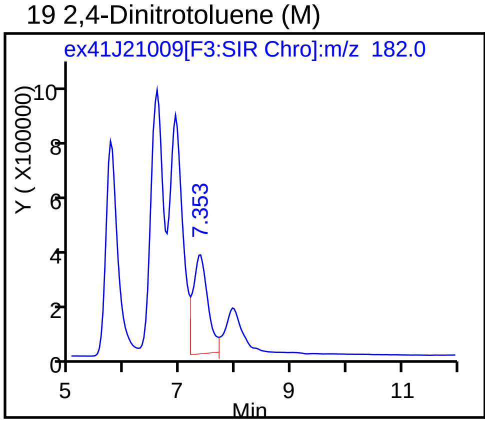
17 2,6-Dinitrotoluene



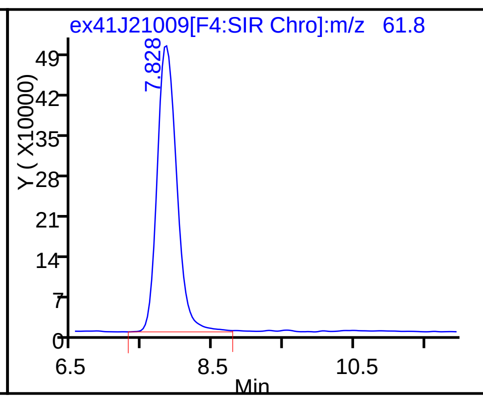
* 18 2,4-dinitrotoluene-d3



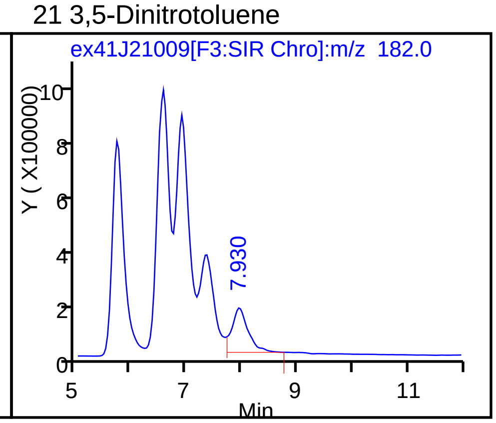
19 2,4-Dinitrotoluene (M)



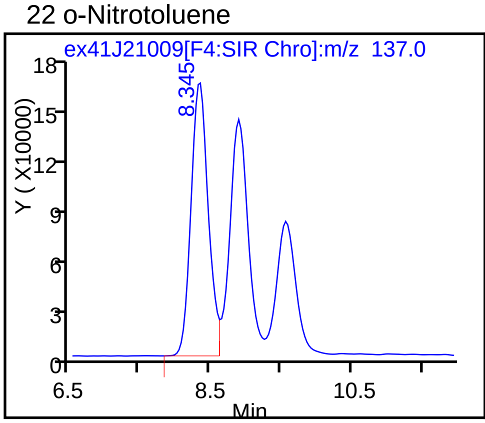
20 PETN



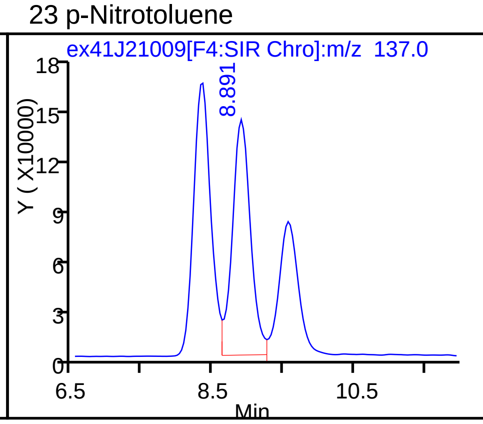
21 3,5-Dinitrotoluene



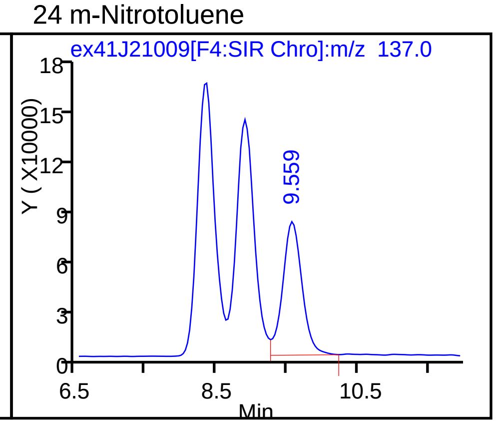
22 o-Nitrotoluene



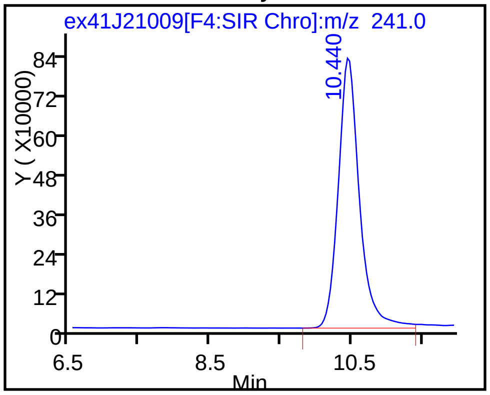
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



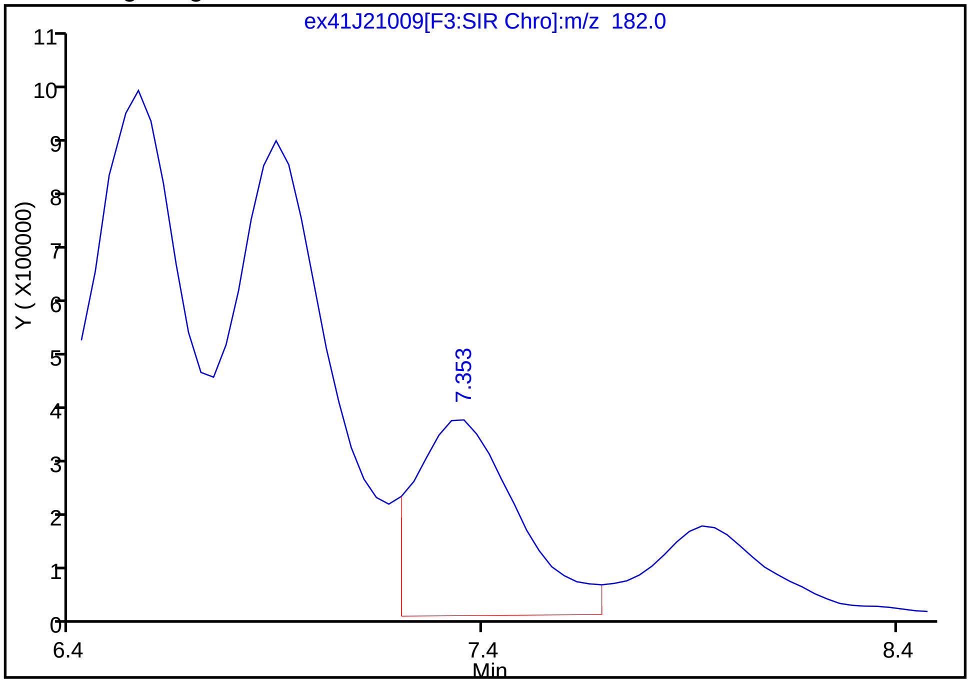
Report Date: 24-Oct-2011 07:32:46
Chrom Revision: 1.2 13-Jul-2011 10:43:06
Manual Integration/User Assign Peak Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Injection Date: 21-Oct-2011 10:50:13
Limit Group: LC - 8321A Expl
Client ID:
Instrument ID: LC_LCMS4
Lims Batch ID: 92354
Lims Sample ID: 7
Operator ID:
Injection Vol: 40.00 ul

19 2,4-Dinitrotoluene, Signal: 1, m/z: 182.0 Type: quant, RT: 7.35, Det: F3:SIR

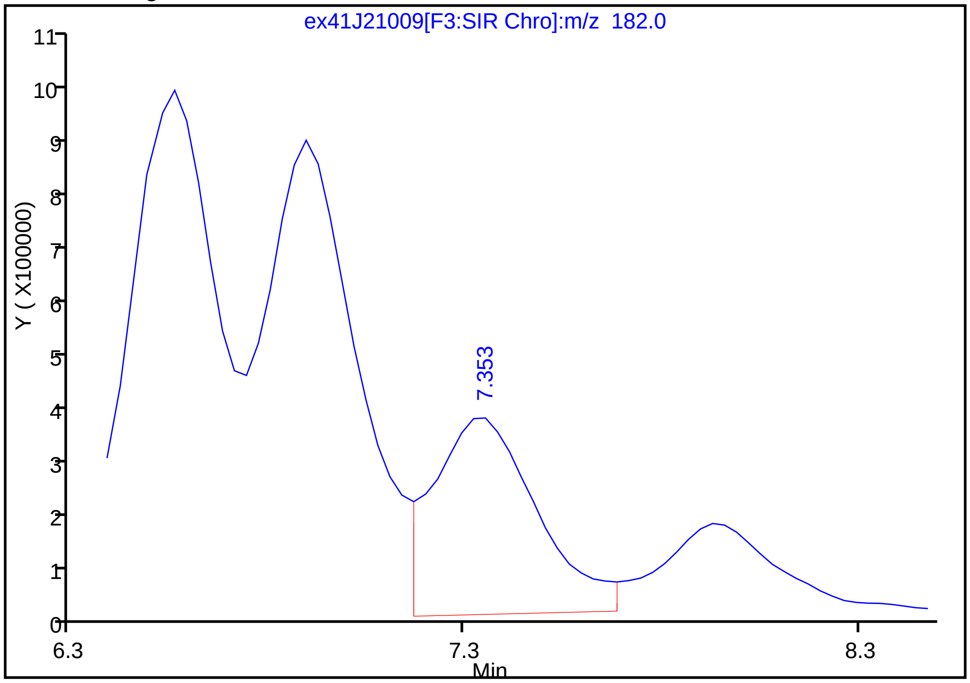
Processing Integration Results

RT: 7.35
Response: 6226014
Amount: 288.0623



Manual Integration Results

RT: 7.35
Response: 6670517
Amount: 298.8368



Reviewer: meyera, 21-Oct-2011 11:09:16
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: ICV 280-92354/10   Calibration Date: 10/21/2011 11:31

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21012.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		1.894		84.6	100	-15.4	20.0
RDX	Lin1		0.9299		97.6	100	-2.4	20.0
1,3,5-Trinitrobenzene	Lin1		0.9734		82.3	100	-17.7	20.0
Tetryl	Lin1		1.382		99.9	100	-0.1	20.0
1,3-Dinitrobenzene	Lin1		1.083		96.4	100	-3.6	20.0
Nitroglycerin	Lin1		5.588		83.4	100	-16.6	30.0
2,4,6-Trinitrotoluene	Lin1		4.639		93.7	100	-6.3	20.0
Nitrobenzene	Lin1		0.9243		91.0	100	-9.0	20.0
3,4-Dinitrotoluene	Lin1		1.976		85.8	100	-14.3	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.104		92.8	100	-7.2	20.0
2,3-Dinitrotoluene	Lin1		2.856		94.3	100	-5.7	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.624		111	100	10.7	20.0
2,6-Dinitrotoluene	Lin1		2.469		92.8	100	-7.2	20.0
2,4-Dinitrotoluene	Lin1		1.103		86.4	100	-13.6	20.0
PETN	Lin1		1.813		92.2	100	-7.8	30.0
3,5-Dinitrotoluene	Lin1		0.5358		82.6	100	-17.4	30.0
2-Nitrotoluene	Lin1		0.4887		91.9	100	-8.1	20.0
4-Nitrotoluene	Lin1		0.4327		91.3	100	-8.7	20.0
3-Nitrotoluene	Lin1		0.2742		93.6	100	-6.4	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.69		96.5	100	-3.5	30.0
Nitrobenzene-d5	Lin1		1.107		86.7	100	-13.3	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21012.d		
Lims ID:	ICV	Client ID:	
Inject. Date:	21-Oct-2011 11:31:28	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	10/21/11ICV ICV 280-0002644-010		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	9
Lims Batch ID:	92354	Lims Sample ID:	10
Sublist:			
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:46	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

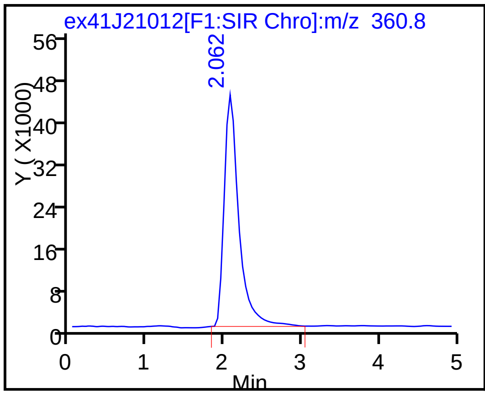
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		589783	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	446721	84.6			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2122759	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	789583	97.6			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	603814	82.3			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	857000	99.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1604847	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.068	0.000	1.015	672081	96.4			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	3466332	83.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.089	2877581	93.7			
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.540	-0.001	1.109	687052	86.7			
12 Nitrobenzene										
2	123.0	5.674	5.674	0.000	1.136	573367	91.0			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.791	3899395	85.8			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.156	0.000	0.851	2175148	92.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.563	6.563	0.000	0.908	5628662	94.3			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.776	6.745	0.031	0.937	3199958	110.7			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.897	0.000	0.954	4866973	92.8			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.261	-0.030		4927567	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.353	7.353	0.000	1.017	2173653	86.4			
20 PETN										
4	61.8	7.828	7.828	0.000	1.000	3572685	92.2			
21 3,5-Dinitrotoluene										
3	182.0	7.930	7.960	-0.030	1.097	1056154	82.6			
22 o-Nitrotoluene										
4	137.0	8.345	8.345	0.000	1.000	963298	91.9			
23 p-Nitrotoluene										
4	137.0	8.891	8.891	0.000	1.000	852773	91.3			
24 m-Nitrotoluene										
4	137.0	9.559	9.559	0.000	1.000	540486	93.6			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.440	10.440	0.000	1.000	6629475	96.5			

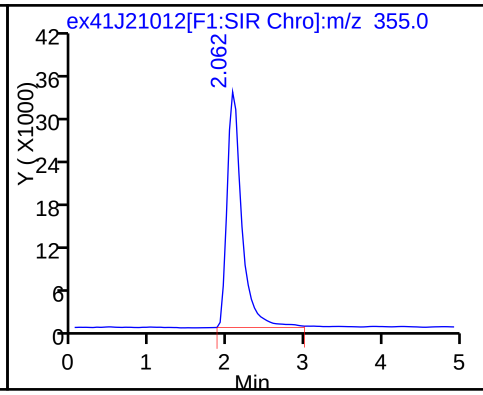
Report Date: 24-Oct-2011 07:32:50 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21012.d

Injection Date:	21-Oct-2011 11:31:28	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	10
Operator ID:		Injection Vol:	40.00 ul

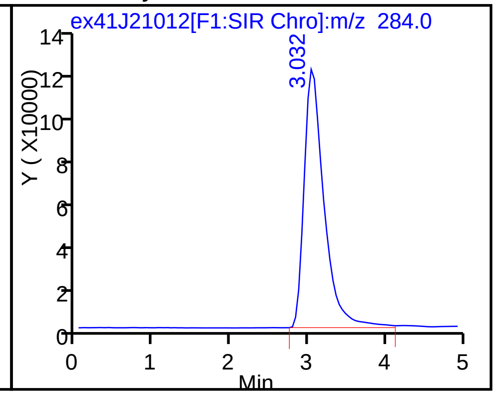
* 1 HMX-13C4



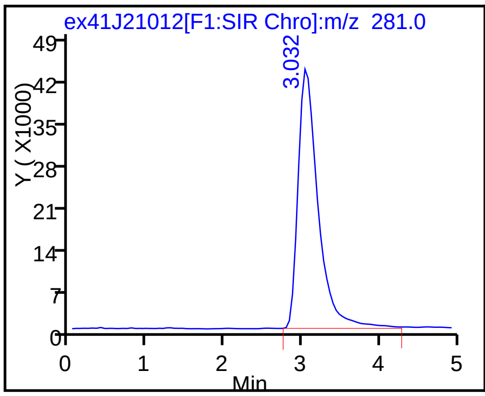
2 HMX



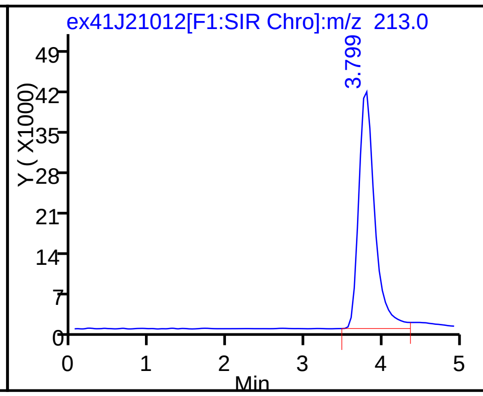
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



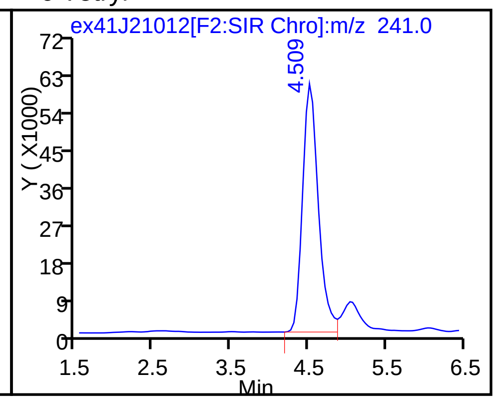
4 RDX



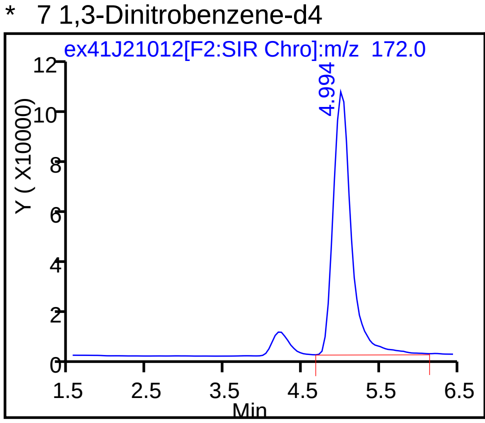
5 1,3,5-Trinitrobenzene



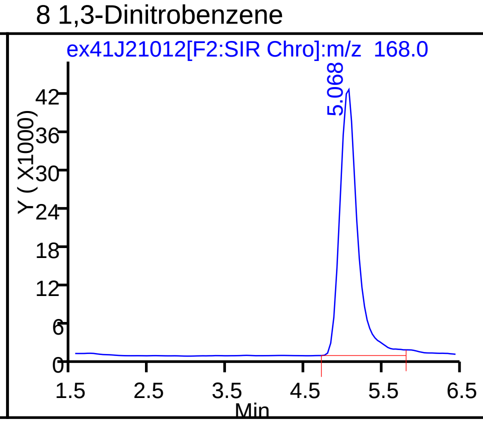
6 Tetryl



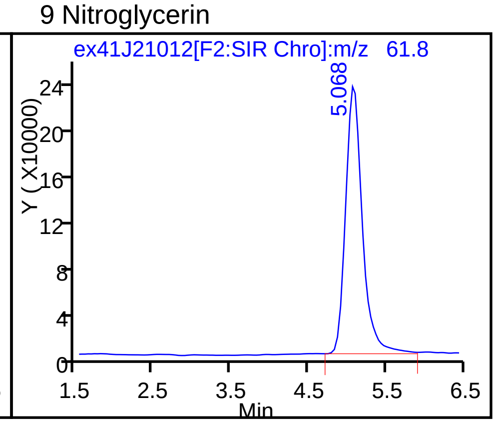
* 7 1,3-Dinitrobenzene-d4



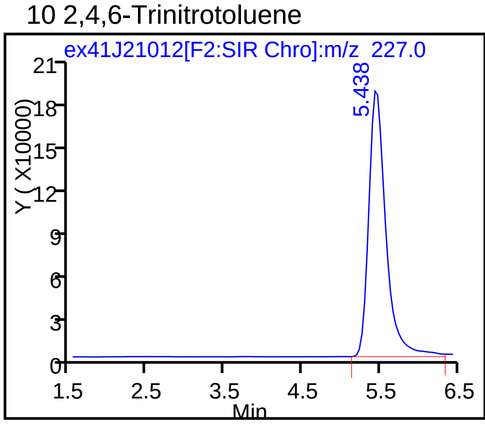
8 1,3-Dinitrobenzene



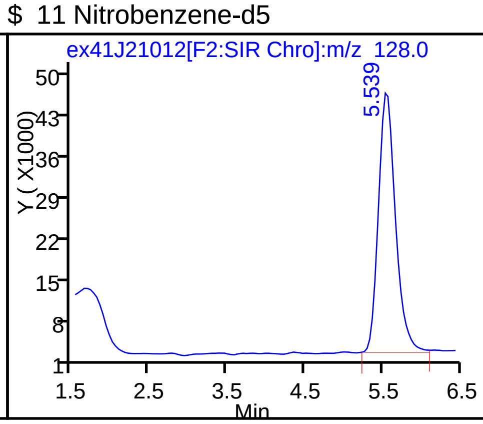
9 Nitroglycerin



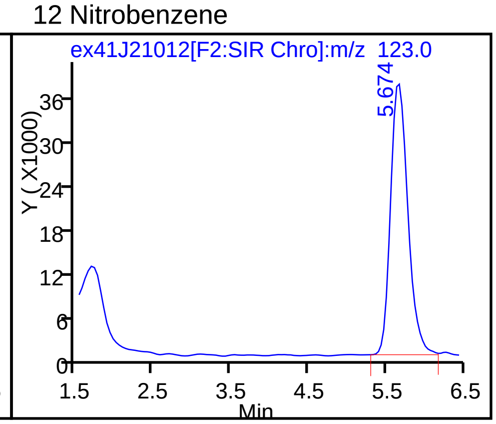
10 2,4,6-Trinitrotoluene



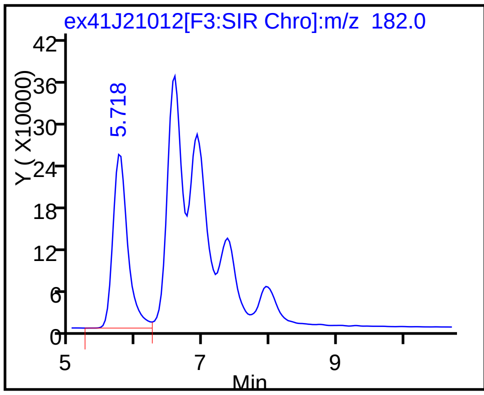
$ 11 Nitrobenzene-d5



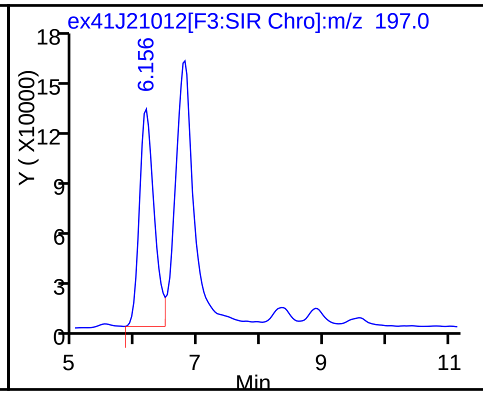
12 Nitrobenzene



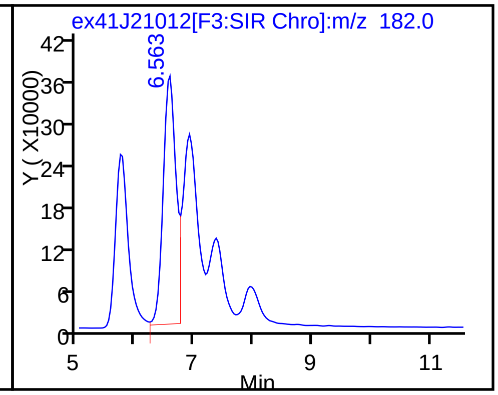
13 3,4-Dinitrotoluene



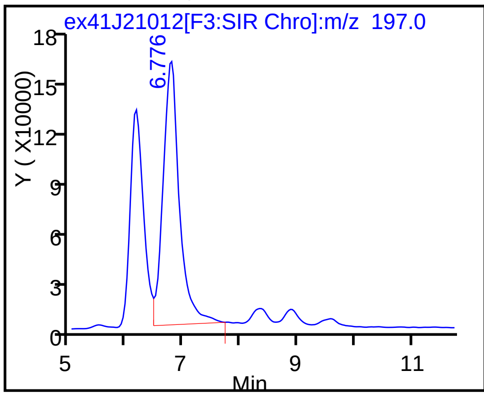
14 4-Amino-2,6-dinitrotoluene



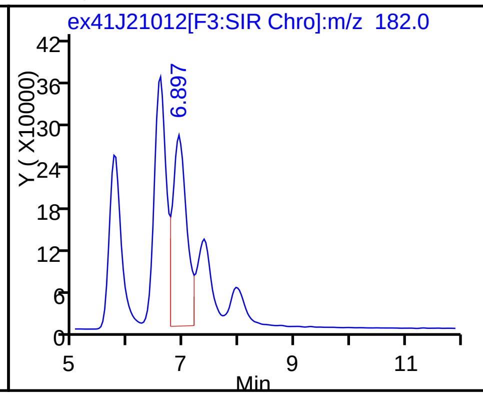
15 2,3-Dinitrotoluene



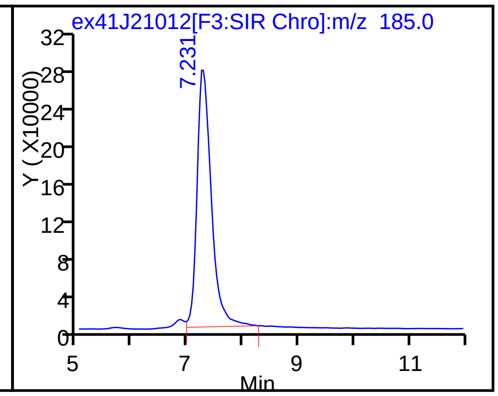
16 2-Amino-4,6-dinitrotoluene



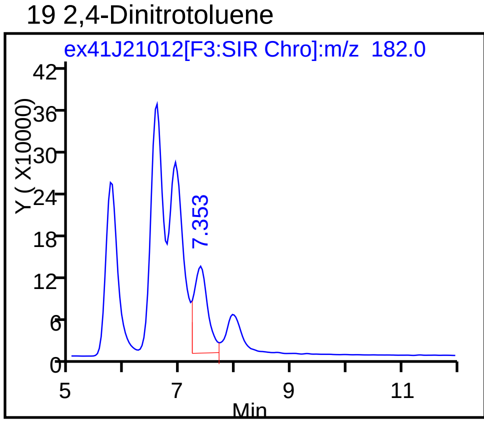
17 2,6-Dinitrotoluene



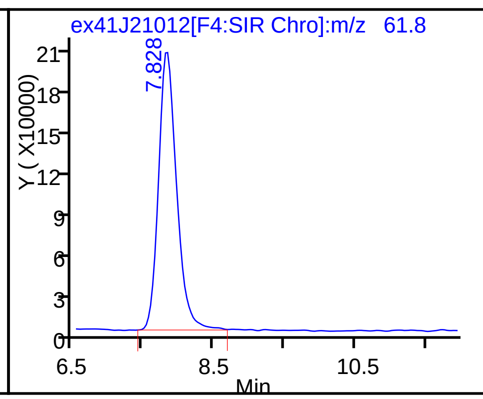
* 18 2,4-dinitrotoluene-d3



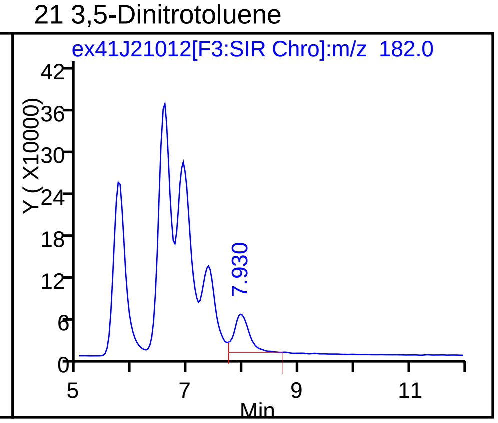
19 2,4-Dinitrotoluene



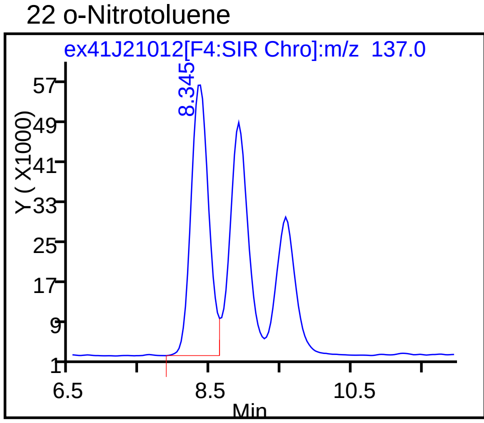
20 PETN



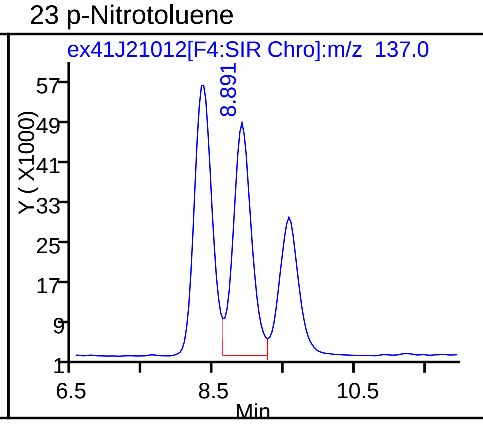
21 3,5-Dinitrotoluene



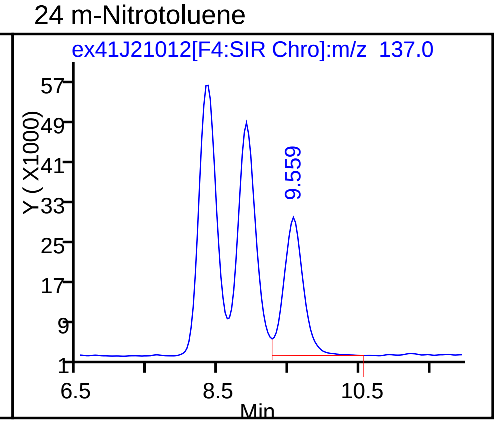
22 o-Nitrotoluene



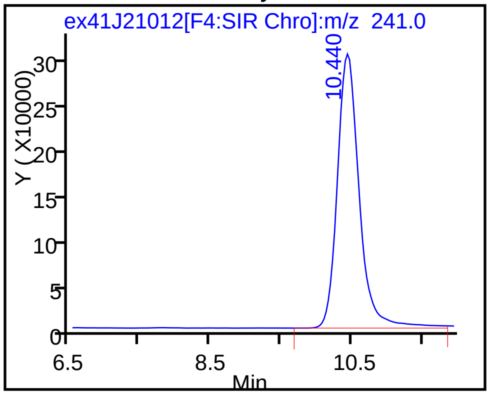
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-92961/148 Calibration Date: 10/25/2011 13:33

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21153.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.332		52.4	50.0	4.8	20.0
RDX	Lin1		1.053		54.4	49.4	10.2	20.0
1,3,5-Trinitrobenzene	Lin1		1.036		44.9	50.1	-10.3	20.0
Tetryl	Lin1		1.123		41.5	49.7	-16.5	20.0
1,3-Dinitrobenzene	Lin1		1.106		50.1	50.7	-1.2	20.0
Nitroglycerin	Lin1		7.729		58.0	50.0	16.0	30.0
2,4,6-Trinitrotoluene	Lin1		5.196		52.8	50.1	5.5	20.0
Nitrobenzene	Lin1		0.9453		46.6	50.0	-6.7	20.0
3,4-Dinitrotoluene	Lin1		2.441		52.9	50.0	5.8	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.307		54.3	49.4	10.0	20.0
2,3-Dinitrotoluene	Lin1		3.329		54.9	50.0	9.8	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.701		57.9	50.1	15.7	20.0
2,6-Dinitrotoluene	Lin1		2.989		56.2	50.1	12.3	20.0
2,4-Dinitrotoluene	Lin1		1.229		48.4	50.2	-3.5	20.0
PETN	Lin1		2.656		66.9	49.9	34.1*	30.0
3,5-Dinitrotoluene	Lin1		0.5994		46.8	50.0	-6.4	30.0
2-Nitrotoluene	Lin1		0.5732		53.3	49.6	7.6	20.0
4-Nitrotoluene	Lin1		0.4888		51.4	49.8	3.3	20.0
3-Nitrotoluene	Lin1		0.3340		56.3	49.4	14.0	20.0
2,4,6-Trinitro-3-xylene	Lin1		12.43		56.1	50.0	12.2	30.0
Nitrobenzene-d5	Lin1		1.203		46.8	50.0	-6.4	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21153.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	25-Oct-2011 13:33:14	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	10/25/11EX4 CCV 50 ug/L 280-0002644-148		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	92961	Lims Sample ID:	148
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	25-Oct-2011 14:01:29	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

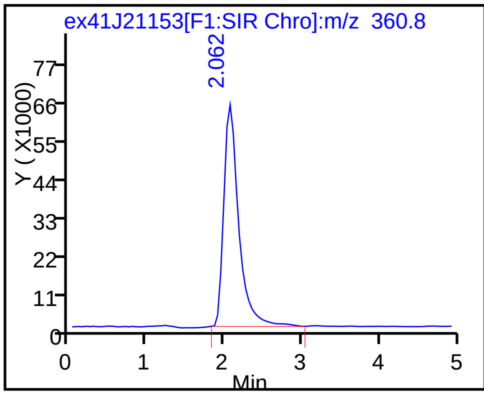
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		863394	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	402734	52.4			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	573125	54.4			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2757429	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	354183	44.9			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	381311	41.5			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1767610	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	383150	50.1			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	2640308	58.0			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	1776786	52.8			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	410977	46.8			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	322586	46.6			
13 3,4-Dinitrotoluene										
3	182.0	5.651	5.651	0.000	0.788	2420259	52.9			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.849	1278805	54.3			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.459	6.459	0.000	0.901	3298367	54.9			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.932	1687589	57.9			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.949	2965278	56.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.170	0.000		4954707	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.231	0.000	1.008	1221925	48.4			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	2626613	66.9			
21 3,5-Dinitrotoluene										
3	182.0	7.839	7.839	0.000	1.093	593963	46.8			
22 o-Nitrotoluene										
4	137.0	8.223	8.223	0.000	1.000	562867	53.3			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	481917	51.4			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	326973	56.3			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.288	10.288	0.000	1.000	4245577	56.1			

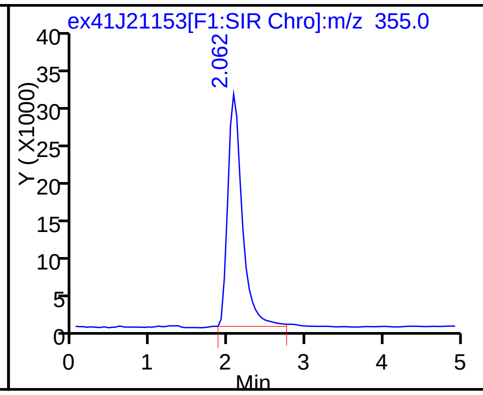
Report Date: 25-Oct-2011 14:01:30 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21153.d

Injection Date:	25-Oct-2011 13:33:14	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	148
Operator ID:		Injection Vol:	40.00 ul

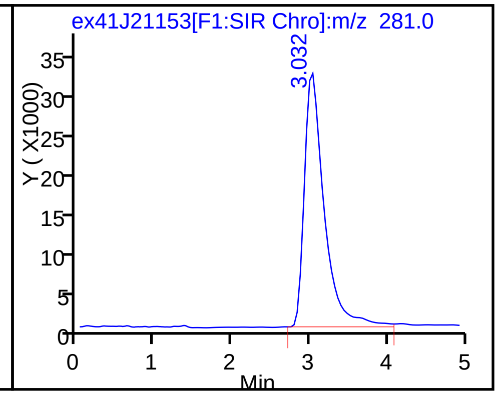
* 1 HMX-13C4



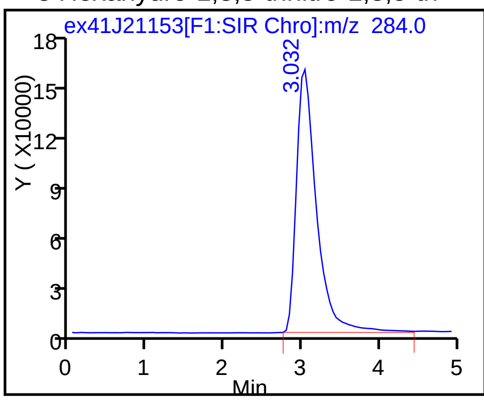
2 HMX



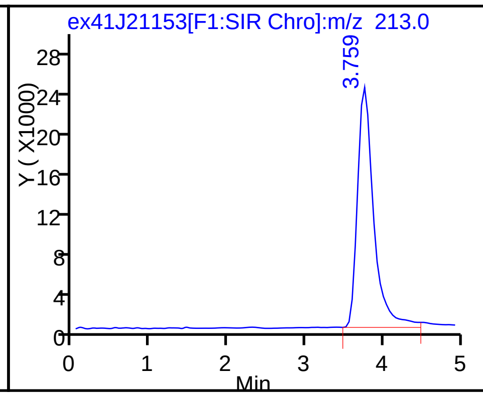
4 RDX



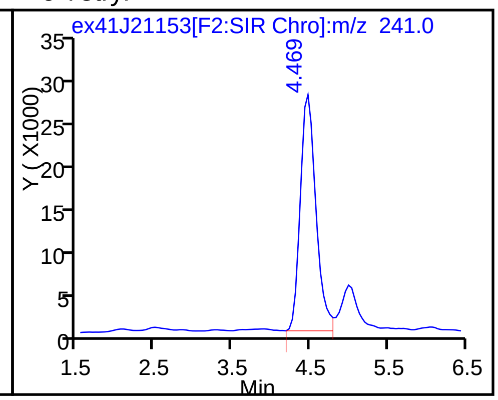
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



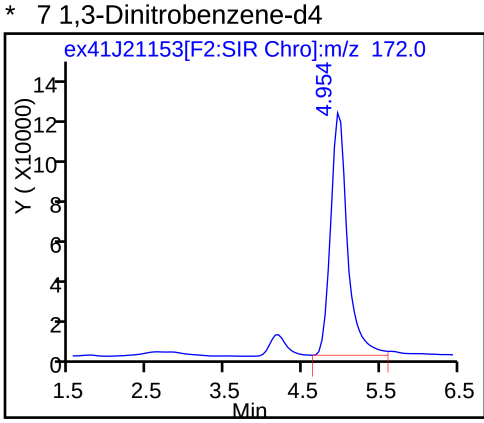
5 1,3,5-Trinitrobenzene



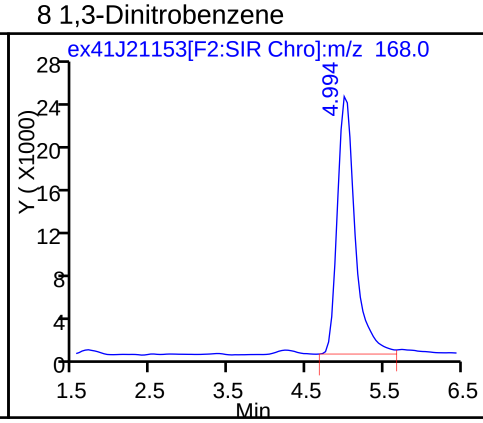
6 Tetryl



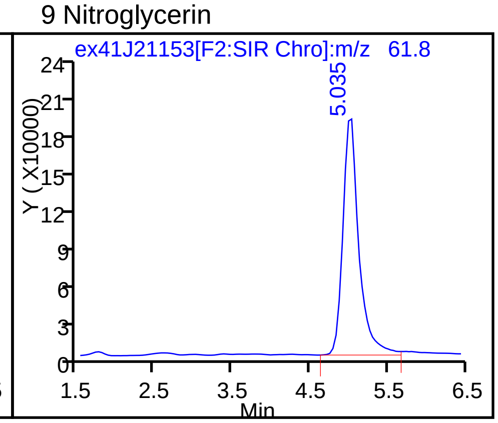
* 7 1,3-Dinitrobenzene-d4



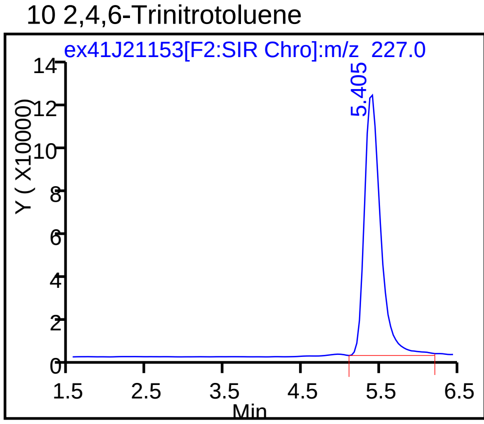
8 1,3-Dinitrobenzene



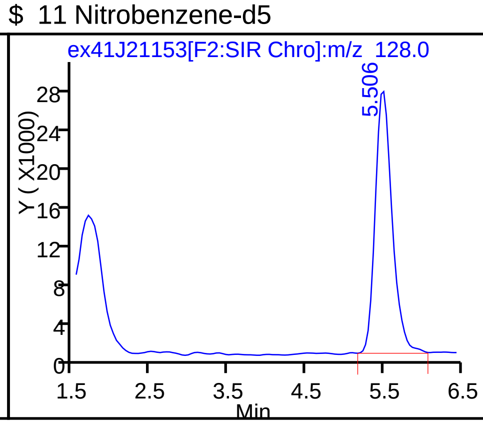
9 Nitroglycerin



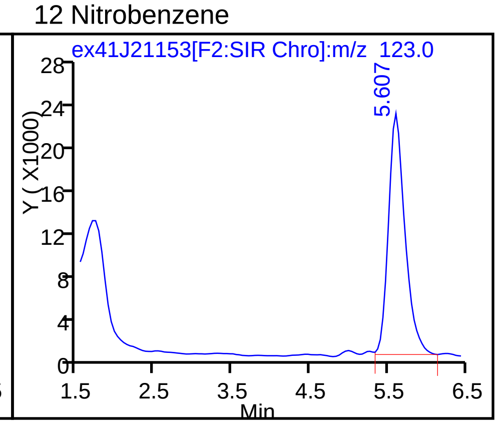
10 2,4,6-Trinitrotoluene



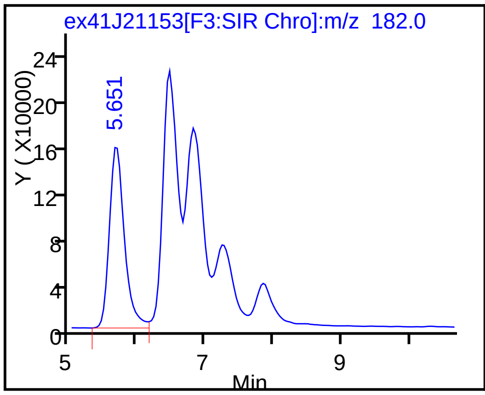
$ 11 Nitrobenzene-d5



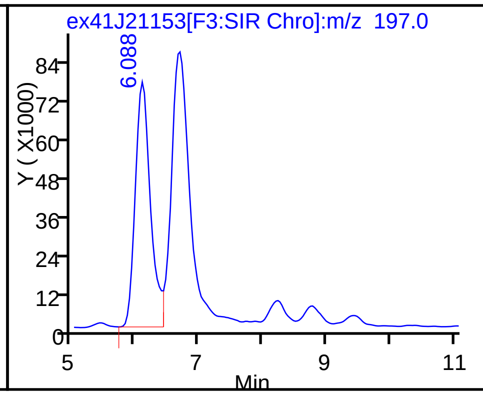
12 Nitrobenzene



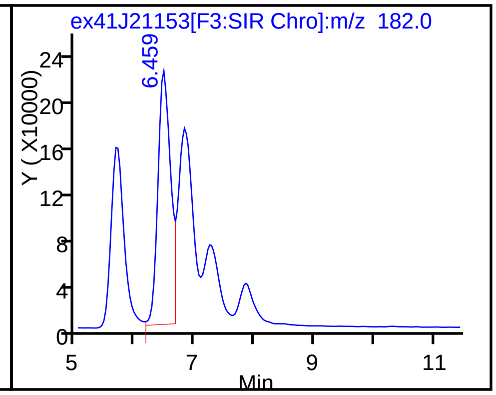
13 3,4-Dinitrotoluene



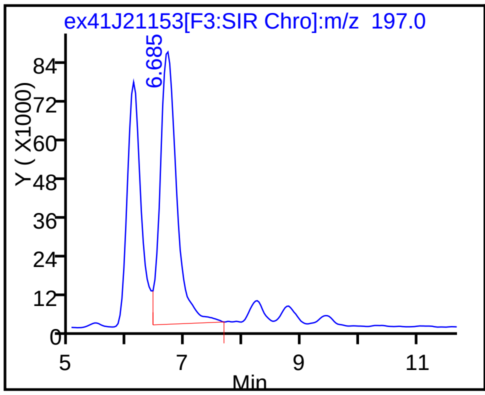
14 4-Amino-2,6-dinitrotoluene



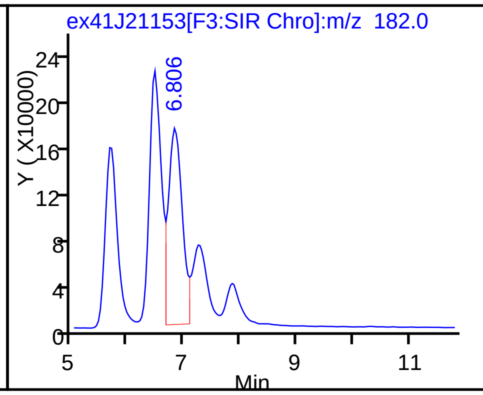
15 2,3-Dinitrotoluene



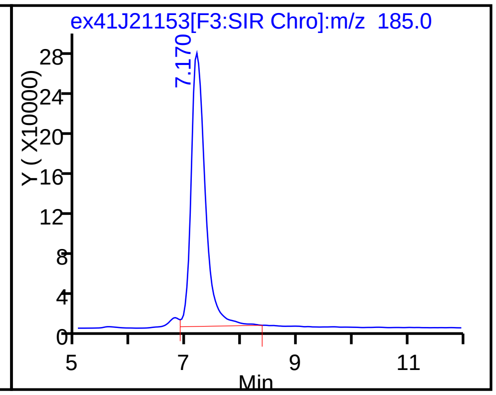
16 2-Amino-4,6-dinitrotoluene



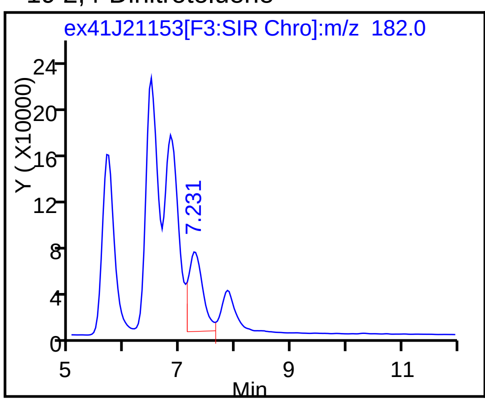
17 2,6-Dinitrotoluene



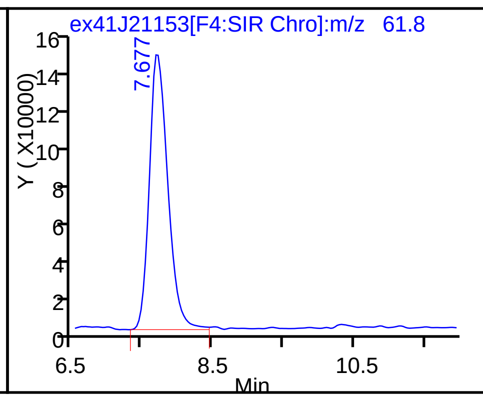
* 18 2,4-dinitrotoluene-d3



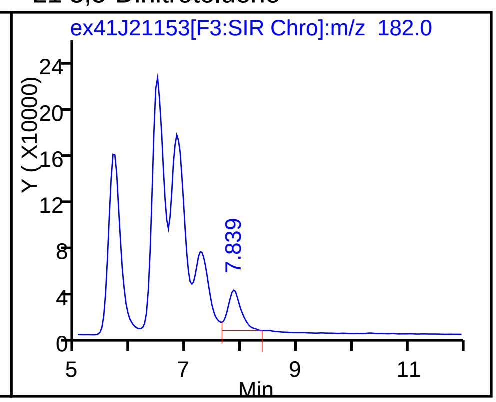
19 2,4-Dinitrotoluene



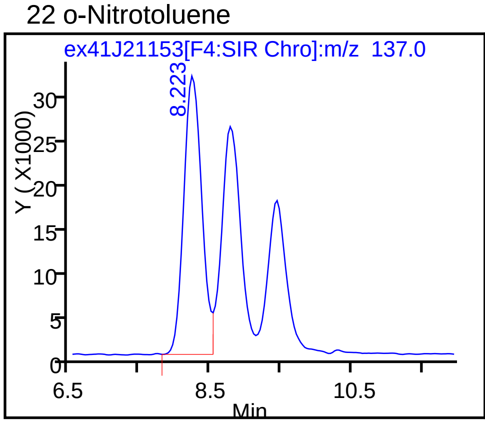
20 PETN



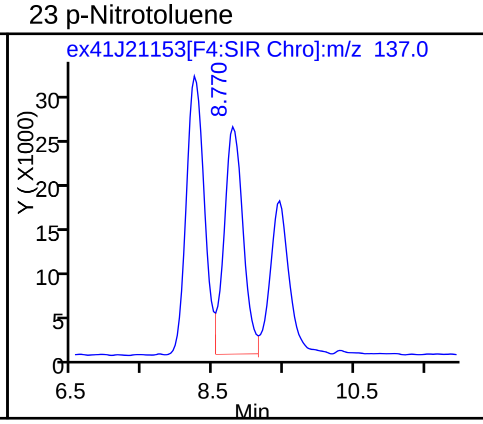
21 3,5-Dinitrotoluene



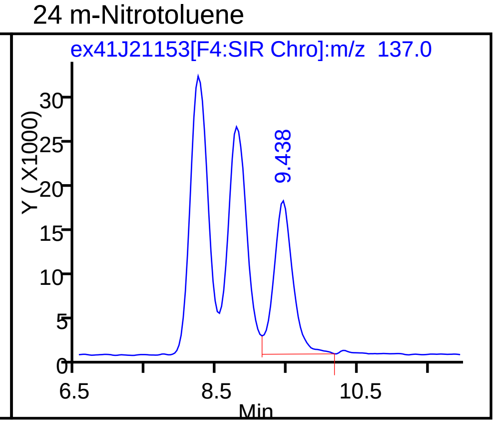
22 o-Nitrotoluene



23 p-Nitrotoluene

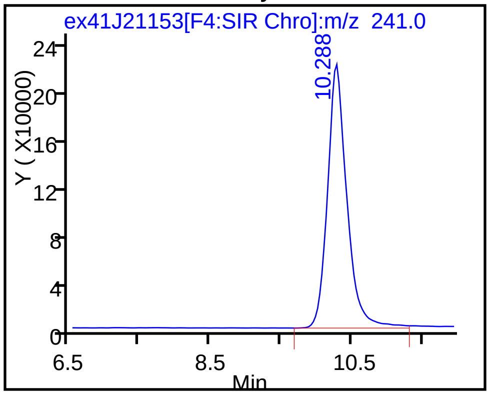


24 m-Nitrotoluene



Report Date: 25-Oct-2011 14:01:30 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21153.d

25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-92961/159 Calibration Date: 10/25/2011 16:03

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21164.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.263		101	100	0.9	20.0
RDX	Lin1		0.9359		97.0	98.7	-1.7	20.0
1,3,5-Trinitrobenzene	Lin1		1.215		102	100	2.1	20.0
Tetryl	Lin1		1.295		93.2	99.4	-6.2	20.0
1,3-Dinitrobenzene	Lin1		1.104		99.5	101	-1.9	20.0
Nitroglycerin	Lin1		7.153		106	100	6.4	30.0
2,4,6-Trinitrotoluene	Lin1		4.952		100	100	-0.1	20.0
Nitrobenzene	Lin1		0.9193		90.4	99.9	-9.5	20.0
3,4-Dinitrotoluene	Lin1		2.123		92.1	100	-7.9	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.149		95.4	98.7	-3.3	20.0
2,3-Dinitrotoluene	Lin1		3.121		103	100	3.0	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.674		114	100	14.2	20.0
2,6-Dinitrotoluene	Lin1		2.451		92.2	100	-7.9	20.0
2,4-Dinitrotoluene	Lin1		1.247		98.0	100	-2.3	20.0
PETN	Lin1		2.064		105	99.8	5.3	30.0
3,5-Dinitrotoluene	Lin1		0.5351		82.5	100	-17.5	30.0
2-Nitrotoluene	Lin1		0.4666		86.9	99.1	-12.3	20.0
4-Nitrotoluene	Lin1		0.3972		83.4	99.5	-16.2	20.0
3-Nitrotoluene	Lin1		0.2600		87.7	98.8	-11.2	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.93		98.7	100	-1.3	30.0
Nitrobenzene-d5	Lin1		1.173		91.9	100	-8.1	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21164.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	25-Oct-2011 16:03:36	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	10/25/11EX5 CCV 100 ug/L 280-0002644-159		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	92961	Lims Sample ID:	159
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:13	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

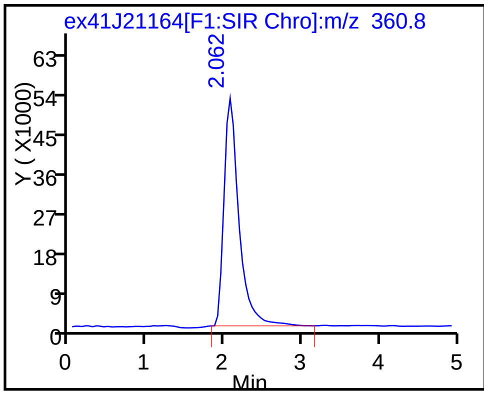
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		709764	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	642484	100.9			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1145212	97.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3099339	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	819693	102.2			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	867028	93.2			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1743039	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	754038	99.5			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	4819016	106.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	3339446	100.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	790297	91.9			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	618715	90.4			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.789	4681604	92.1			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.845	2499590	95.4			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.459	6.459	0.000	0.897	6877327	103.0			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	3693817	114.3			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	5407940	92.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5510671	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.008	2756098	98.0			
20 PETN										
4	61.8	7.737	7.737	0.000	1.000	4541421	105.1			
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.869	0.000	1.093	1179532	82.5			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	1019318	86.9			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	871203	83.4			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	566146	87.7			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.319	10.319	0.000	1.000	7364673	98.7			

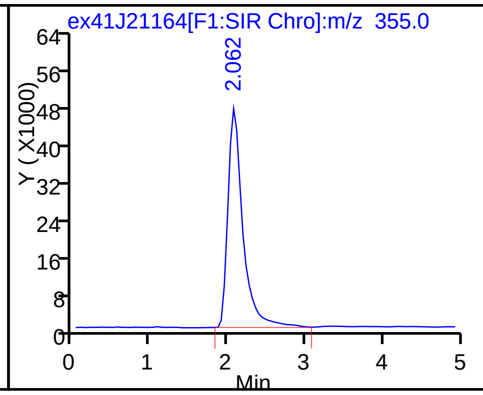
Report Date: 26-Oct-2011 06:24:13   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21164.d

Injection Date:	25-Oct-2011 16:03:36	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	159
Operator ID:		Injection Vol:	40.00 ul

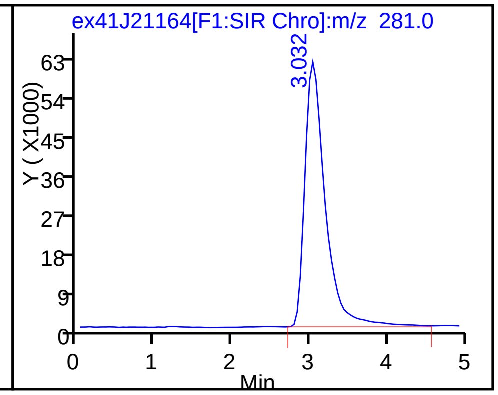
* 1 HMX-13C4



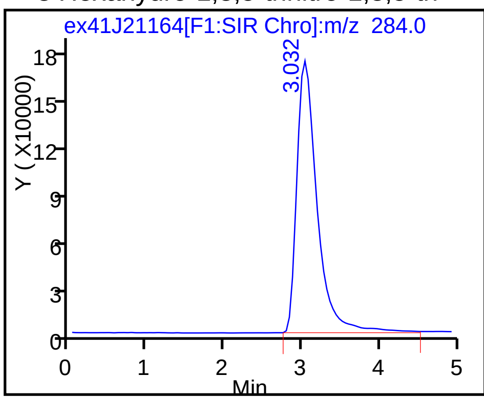
2 HMX



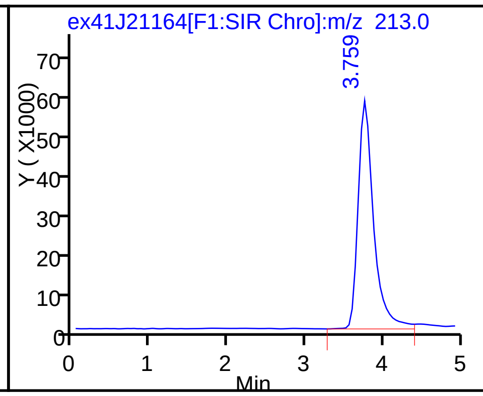
4 RDX



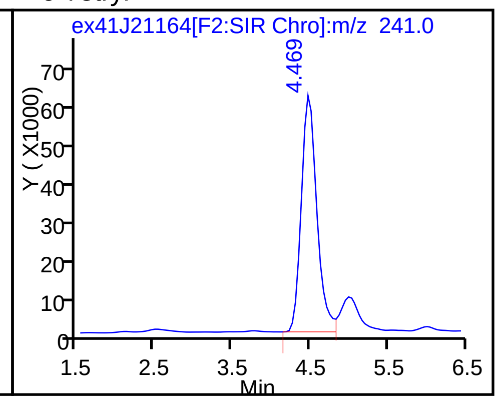
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



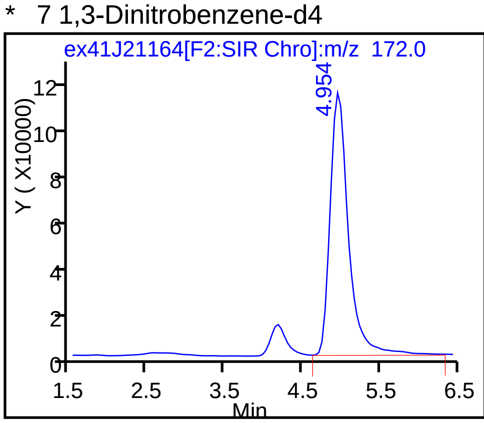
5 1,3,5-Trinitrobenzene



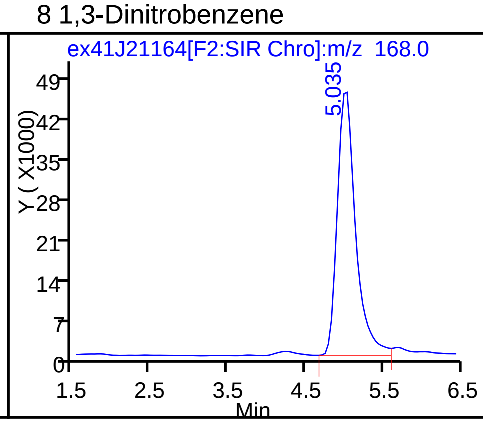
6 Tetryl



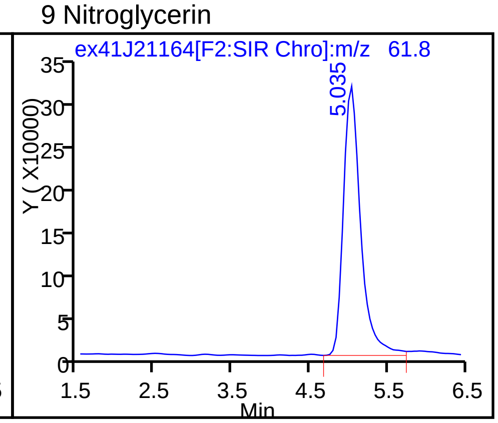
* 7 1,3-Dinitrobenzene-d4



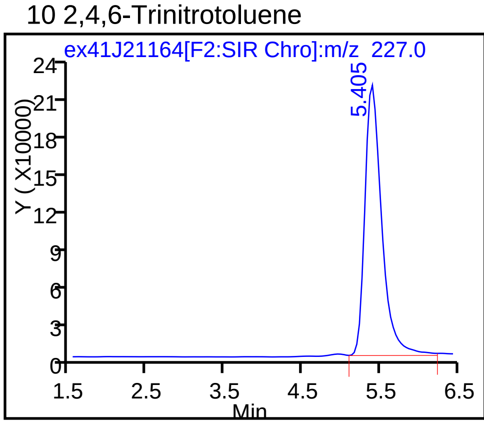
8 1,3-Dinitrobenzene



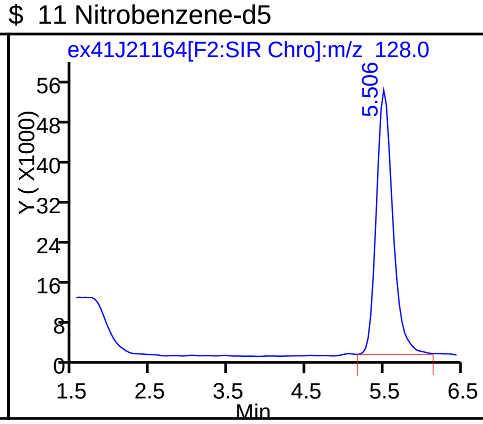
9 Nitroglycerin



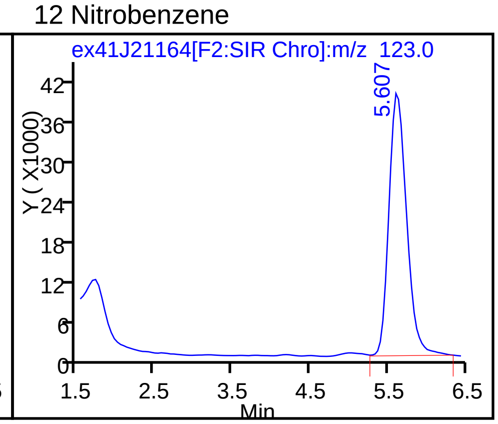
10 2,4,6-Trinitrotoluene



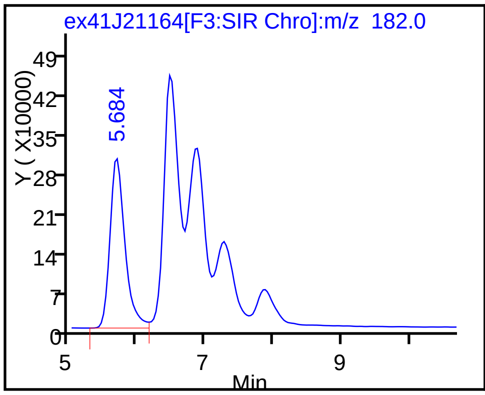
$ 11 Nitrobenzene-d5



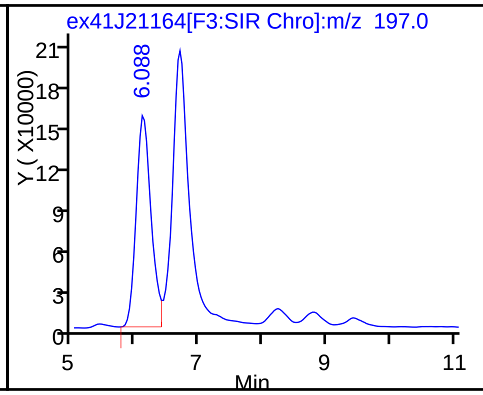
12 Nitrobenzene



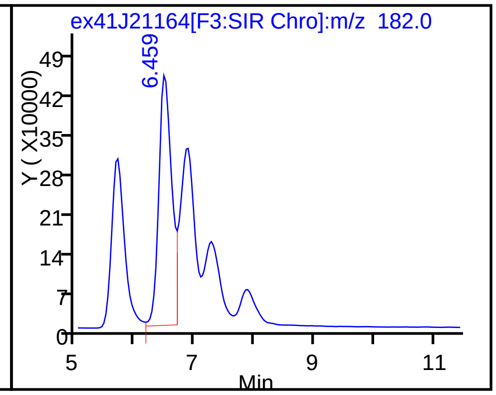
13 3,4-Dinitrotoluene



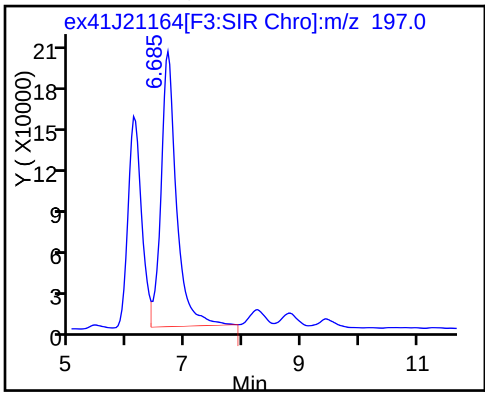
14 4-Amino-2,6-dinitrotoluene



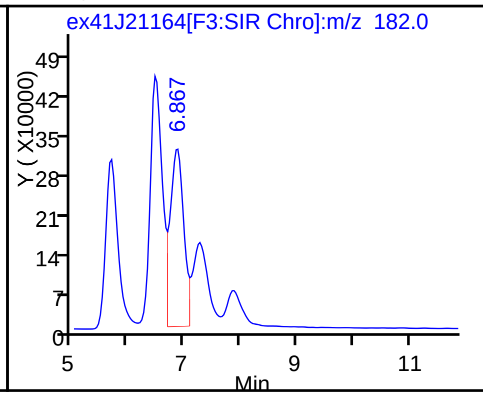
15 2,3-Dinitrotoluene



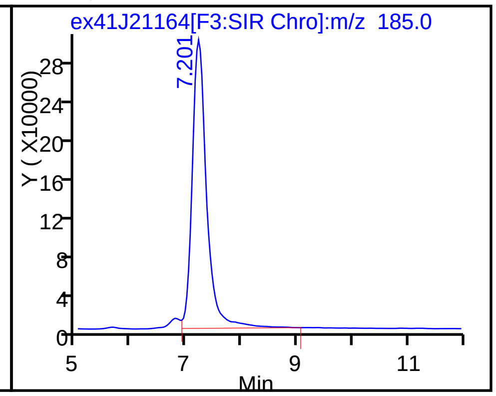
16 2-Amino-4,6-dinitrotoluene



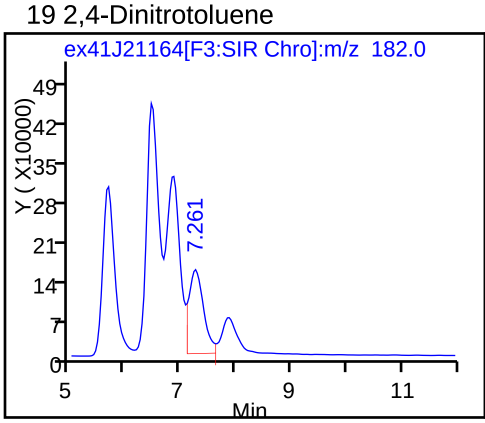
17 2,6-Dinitrotoluene



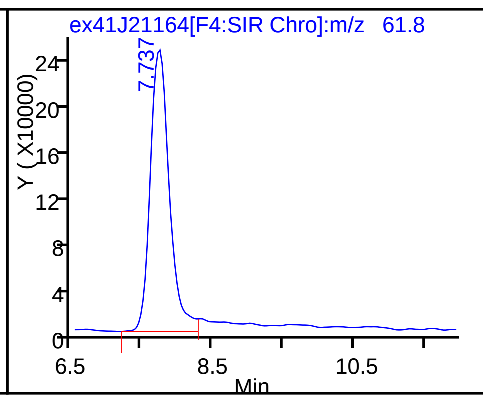
* 18 2,4-dinitrotoluene-d3



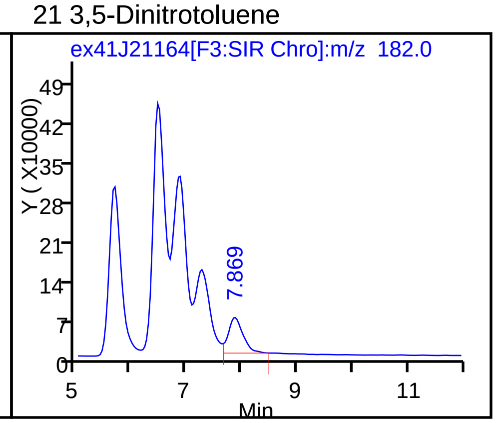
19 2,4-Dinitrotoluene



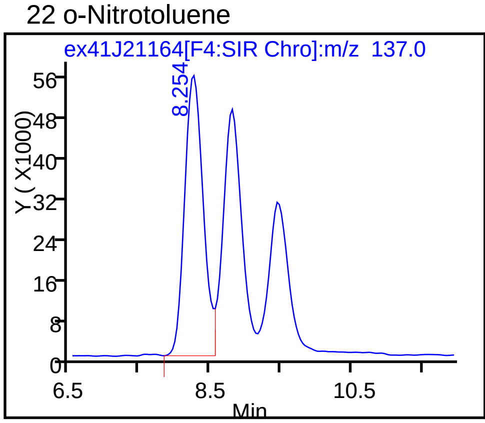
20 PETN



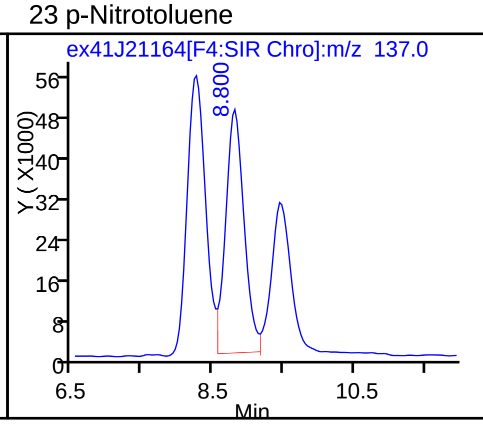
21 3,5-Dinitrotoluene



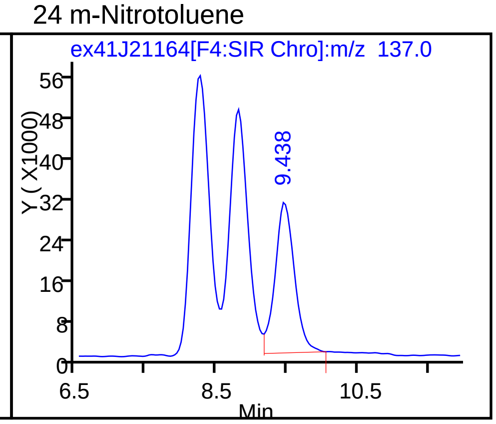
22 o-Nitrotoluene



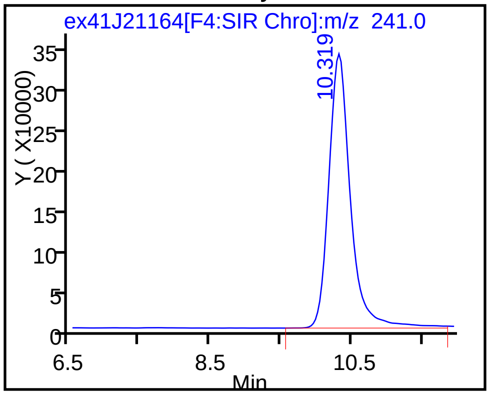
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-92961/167   Calibration Date: 10/25/2011 17:52

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21172.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.427		54.5	50.0	9.0	20.0
RDX	Lin1		1.060		54.8	49.4	11.0	20.0
1,3,5-Trinitrobenzene	Lin1		1.196		51.5	50.1	2.9	20.0
Tetryl	Lin1		1.418		51.9	49.7	4.4	20.0
1,3-Dinitrobenzene	Lin1		1.220		55.2	50.7	8.9	20.0
Nitroglycerin	Lin1		8.102		60.8	50.0	21.6	30.0
2,4,6-Trinitrotoluene	Lin1		5.367		54.5	50.1	8.9	20.0
Nitrobenzene	Lin1		1.099		54.1	50.0	8.3	20.0
3,4-Dinitrotoluene	Lin1		2.451		53.1	50.0	6.2	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.439		59.8	49.4	21.2*	20.0
2,3-Dinitrotoluene	Lin1		3.124		51.4	50.0	2.8	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.909		65.0	50.1	29.9*	20.0
2,6-Dinitrotoluene	Lin1		2.901		54.6	50.1	9.1	20.0
2,4-Dinitrotoluene	Lin1		1.346		53.0	50.2	5.7	20.0
PETN	Lin1		2.543		63.9	49.9	28.1	30.0
3,5-Dinitrotoluene	Lin1		0.5848		45.6	50.0	-8.8	30.0
2-Nitrotoluene	Lin1		0.5530		51.4	49.6	3.7	20.0
4-Nitrotoluene	Lin1		0.4642		48.9	49.8	-1.7	20.0
3-Nitrotoluene	Lin1		0.2939		49.5	49.4	0.2	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.92		49.4	50.0	-1.2	30.0
Nitrobenzene-d5	Lin1		1.334		52.0	50.0	4.0	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21172.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	25-Oct-2011 17:52:41	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	10/25/11EX4 CCV 50 ug/L 280-0002644-167		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	92961	Lims Sample ID:	167
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:19	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

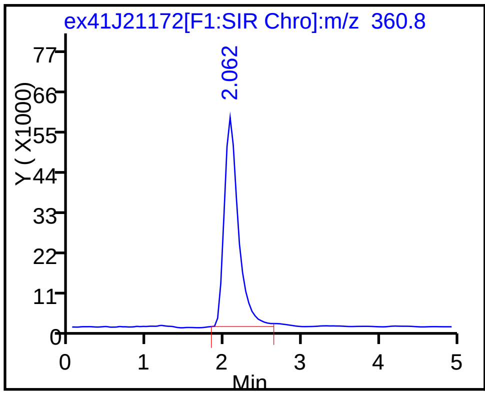
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		746516	250.0			
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	362427	54.5			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	574543	54.8			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2747006	250.0			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	360700	51.5			
	6 Tetryl									
2	241.0	4.469	4.469	0.000	0.902	424656	51.9			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		1558927	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	5.035	5.035	0.000	1.016	372611	55.2			
	9 Nitroglycerin									
2	61.8	5.035	5.035	0.000	1.016	2440953	60.8			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.405	5.405	0.000	1.091	1618490	54.5			
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.111	401899	52.0			
	12 Nitrobenzene									
2	123.0	5.607	5.607	0.000	1.132	330625	54.1			
	13 3,4-Dinitrotoluene									
3	182.0	5.684	5.684	0.000	0.789	2355748	53.1			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.088	6.088	0.000	0.845	1364902	59.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.459	6.459	0.000	0.897	3000155	51.4			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.655	6.655	0.000	0.924	1835479	65.0			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.949	2789322	54.6			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4803510	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.231	0.000	1.004	1297295	53.0			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	2437829	63.9			
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.869	0.000	1.093	561810	45.6			
22 o-Nitrotoluene										
4	137.0	8.223	8.223	0.000	1.000	526448	51.4			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	443733	48.9			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	278963	49.5			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.319	10.319	0.000	1.000	3290612	49.4			

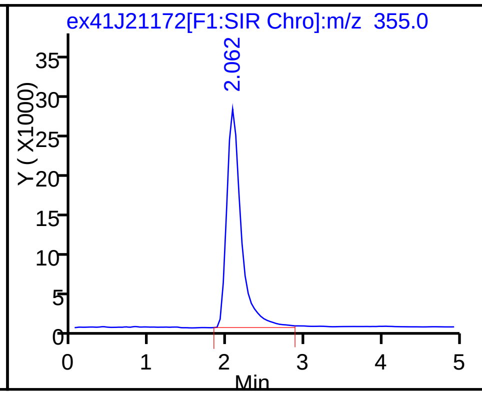
Report Date: 26-Oct-2011 06:24:19 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21172.d

Injection Date:	25-Oct-2011 17:52:41	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	167
Operator ID:		Injection Vol:	40.00 ul

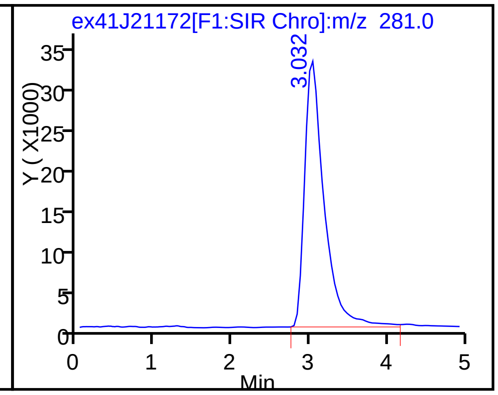
* 1 HMX-13C4



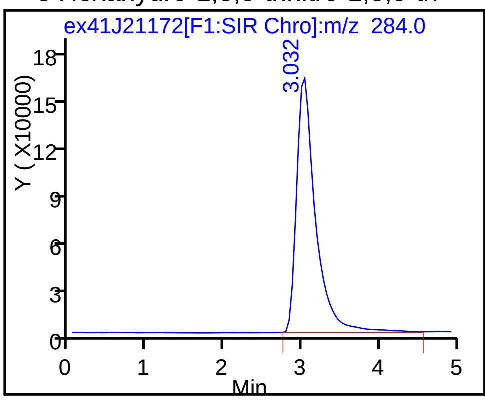
2 HMX



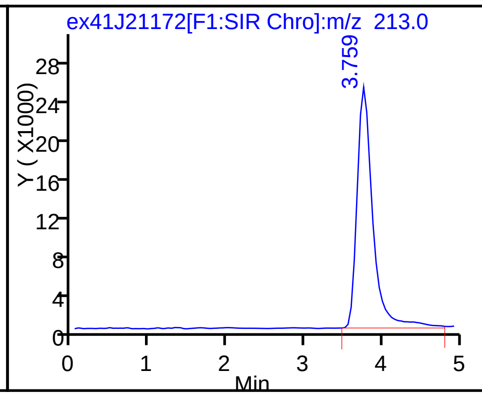
4 RDX



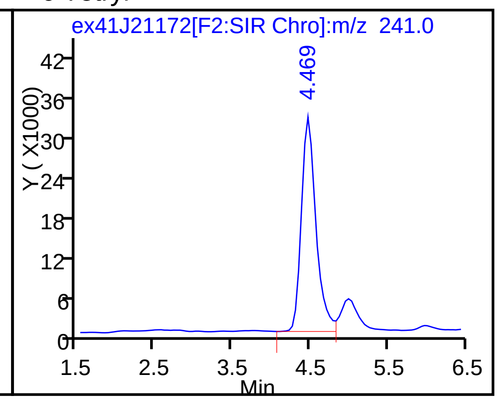
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



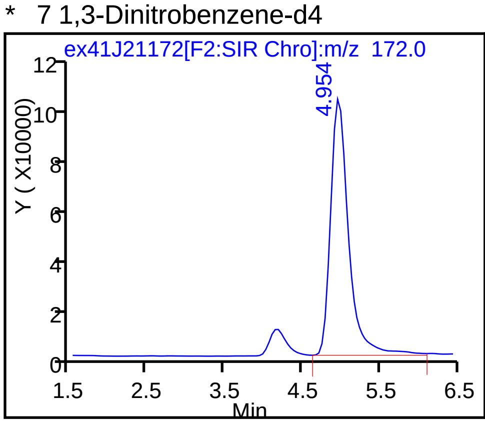
5 1,3,5-Trinitrobenzene



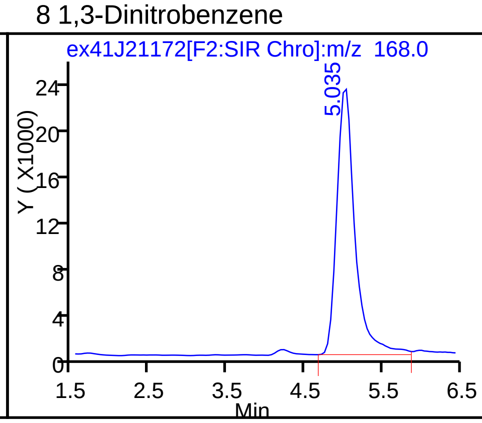
6 Tetryl



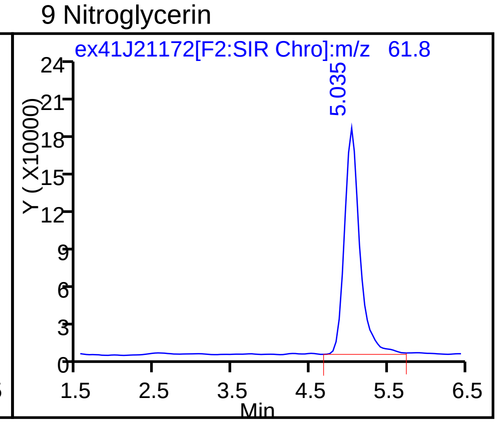
* 7 1,3-Dinitrobenzene-d4



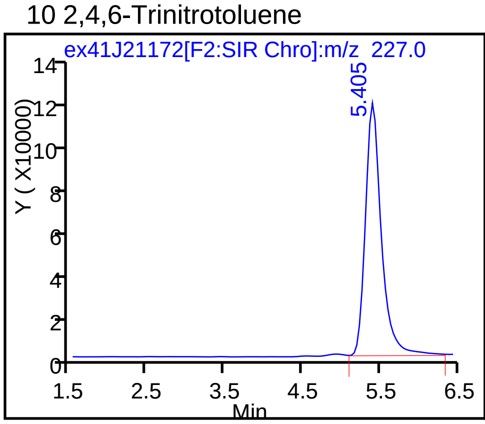
8 1,3-Dinitrobenzene



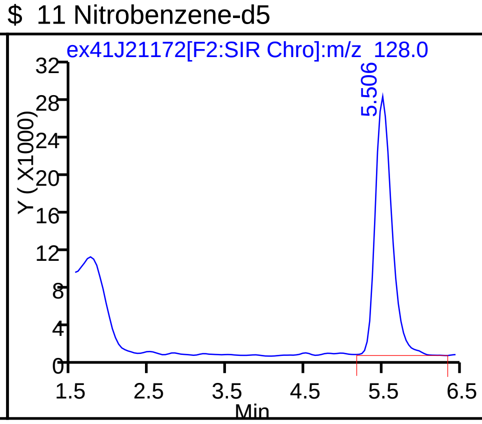
9 Nitroglycerin



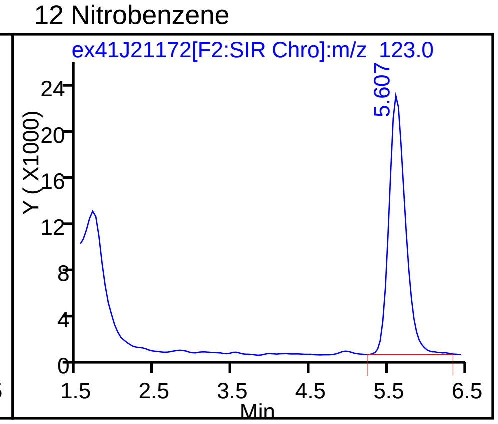
10 2,4,6-Trinitrotoluene



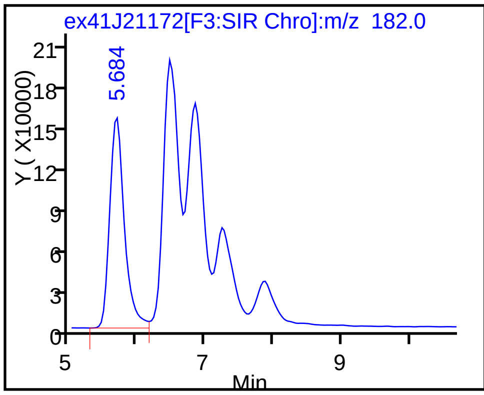
$ 11 Nitrobenzene-d5



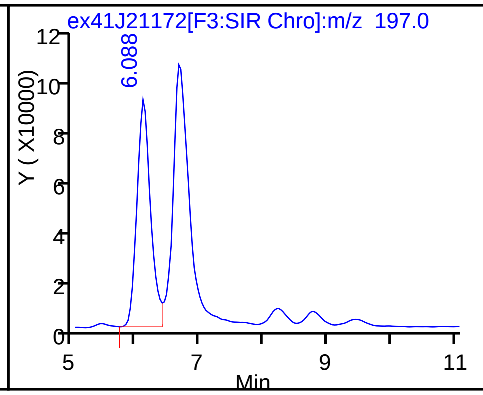
12 Nitrobenzene



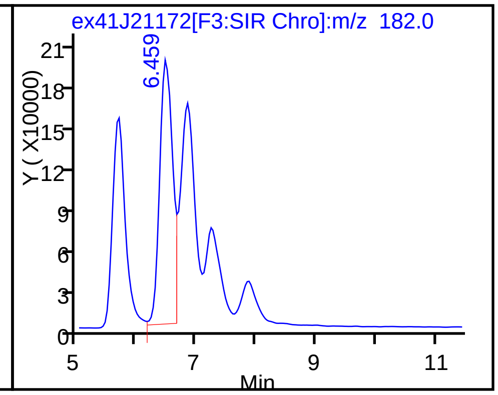
13 3,4-Dinitrotoluene



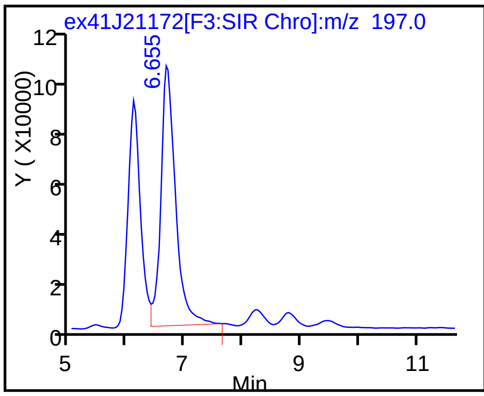
14 4-Amino-2,6-dinitrotoluene



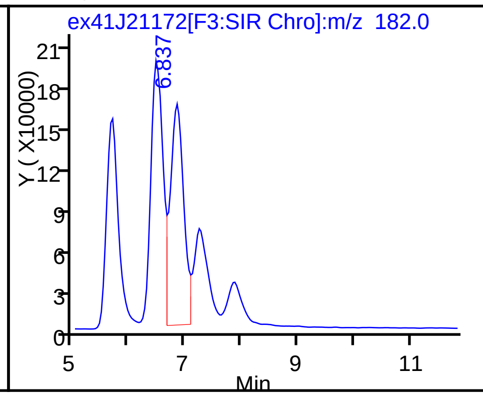
15 2,3-Dinitrotoluene



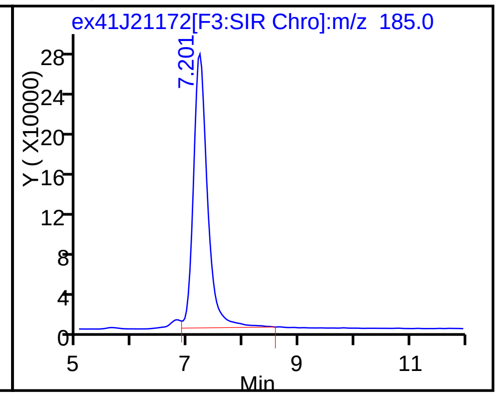
16 2-Amino-4,6-dinitrotoluene



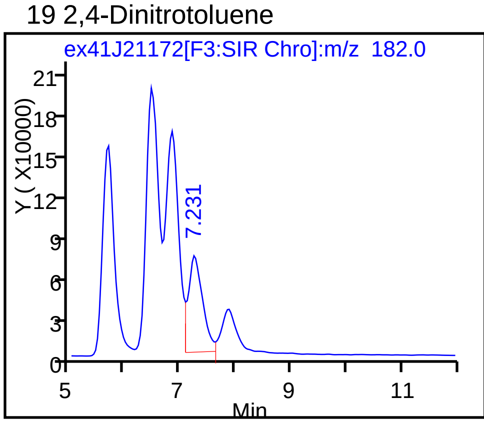
17 2,6-Dinitrotoluene



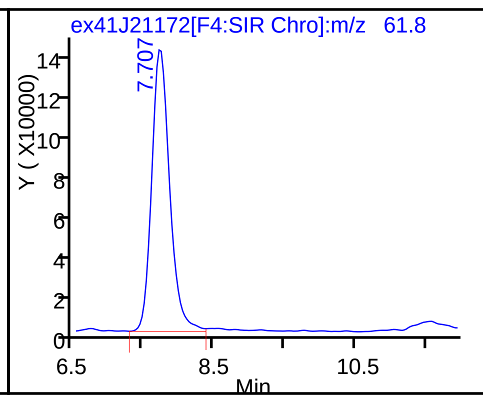
* 18 2,4-dinitrotoluene-d3



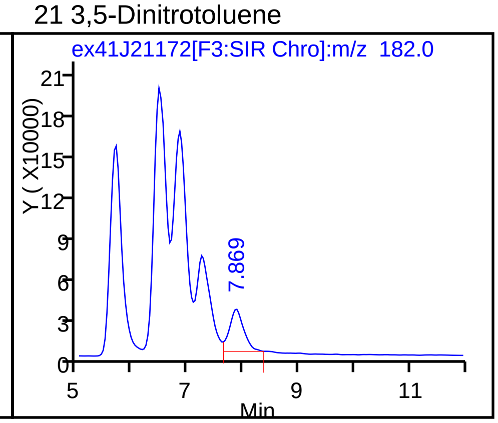
19 2,4-Dinitrotoluene



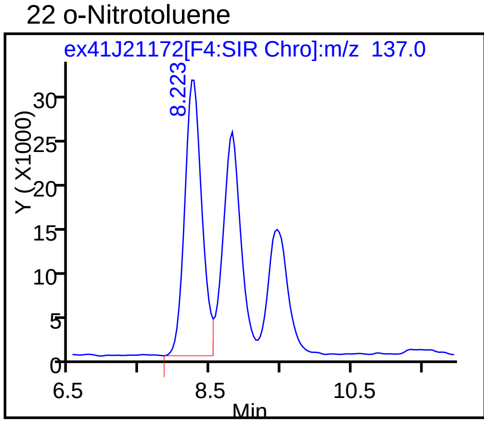
20 PETN



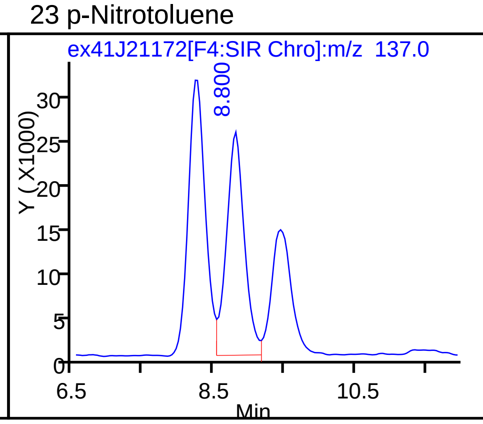
21 3,5-Dinitrotoluene



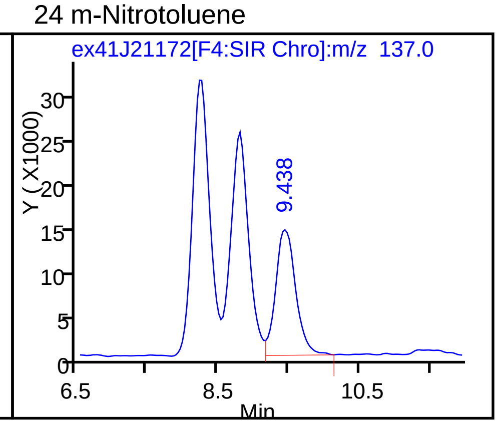
22 o-Nitrotoluene



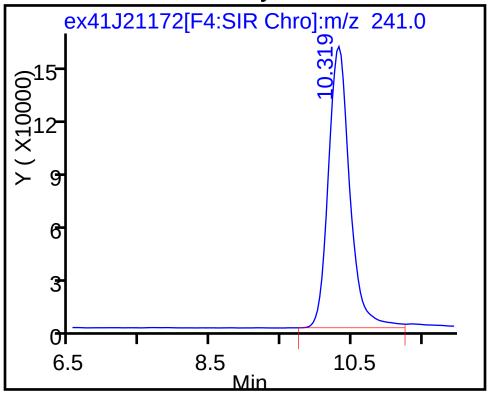
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-92961/175   Calibration Date: 10/25/2011 19:41

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21180.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.200		98.1	100	-1.9	20.0
RDX	Lin1		0.9179		95.1	98.7	-3.6	20.0
1,3,5-Trinitrobenzene	Lin1		1.223		103	100	2.8	20.0
Tetryl	Lin1		1.470		106	99.4	6.1	20.0
1,3-Dinitrobenzene	Lin1		1.062		95.7	101	-5.6	20.0
Nitroglycerin	Lin1		6.833		102	100	1.7	30.0
2,4,6-Trinitrotoluene	Lin1		4.866		98.3	100	-1.8	20.0
Nitrobenzene	Lin1		0.9509		93.5	99.9	-6.4	20.0
3,4-Dinitrotoluene	Lin1		2.233		96.9	100	-3.1	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.708		142	98.7	43.6*	20.0
2,3-Dinitrotoluene	Lin1		3.411		113	100	12.6	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.896		129	100	29.3*	20.0
2,6-Dinitrotoluene	Lin1		2.701		102	100	1.6	20.0
2,4-Dinitrotoluene	Lin1		1.266		99.5	100	-0.8	20.0
PETN	Lin1		2.266		116	99.8	15.7	30.0
3,5-Dinitrotoluene	Lin1		0.5998		92.3	100	-7.7	30.0
2-Nitrotoluene	Lin1		0.5392		100	99.1	1.3	20.0
4-Nitrotoluene	Lin1		0.4792		101	99.5	1.1	20.0
3-Nitrotoluene	Lin1		0.2825		95.3	98.8	-3.5	20.0
2,4,6-Trinitro-3-xylene	Lin1		12.04		109	100	8.6	30.0
Nitrobenzene-d5	Lin1		1.332		104	100	4.4	20.0

FORM VII 8321B

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-92964/175   Calibration Date: 10/25/2011 19:41

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21180.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.200		98.1	100	-1.9	20.0
RDX	Lin1		0.9179		95.1	98.7	-3.6	20.0
1,3,5-Trinitrobenzene	Lin1		1.223		103	100	2.8	20.0
Tetryl	Lin1		1.470		106	99.4	6.1	20.0
1,3-Dinitrobenzene	Lin1		1.062		95.7	101	-5.6	20.0
Nitroglycerin	Lin1		6.833		102	100	1.7	30.0
2,4,6-Trinitrotoluene	Lin1		4.866		98.3	100	-1.8	20.0
Nitrobenzene	Lin1		0.9509		93.5	99.9	-6.4	20.0
3,4-Dinitrotoluene	Lin1		2.233		96.9	100	-3.1	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.708		142	98.7	43.6*	20.0
2,3-Dinitrotoluene	Lin1		3.411		113	100	12.6	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.896		129	100	29.3*	20.0
2,6-Dinitrotoluene	Lin1		2.701		102	100	1.6	20.0
2,4-Dinitrotoluene	Lin1		1.266		99.5	100	-0.8	20.0
PETN	Lin1		2.266		116	99.8	15.7	30.0
3,5-Dinitrotoluene	Lin1		0.5998		92.3	100	-7.7	30.0
2-Nitrotoluene	Lin1		0.5392		100	99.1	1.3	20.0
4-Nitrotoluene	Lin1		0.4792		101	99.5	1.1	20.0
3-Nitrotoluene	Lin1		0.2825		95.3	98.8	-3.5	20.0
2,4,6-Trinitro-3-xylene	Lin1		12.04		109	100	8.6	30.0
Nitrobenzene-d5	Lin1		1.332		104	100	4.4	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21180.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	25-Oct-2011 19:41:49	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	10/25/11EX5 CCV 100 ug/L 280-0002644-175		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	92961	Lims Sample ID:	175
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:25	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		805528	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	708905	98.1			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1116302	95.1			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3080464	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	775109	102.9			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	925024	105.5			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1637973	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.034	0.000	1.016	681581	95.7			
9 Nitroglycerin										
2	61.8	5.034	5.034	0.000	1.016	4326130	101.7			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	3083699	98.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	843271	104.4			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	601388	93.5			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.789	4599676	96.9			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.845	3471021	141.7			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.902	7020161	112.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	3906981	129.4			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.949	5567064	101.7			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5146922	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.008	2614776	99.5			
20 PETN										
4	61.8	7.737	7.737	0.000	1.000	4655678	115.5			
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.869	0.000	1.093	1234830	92.3			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	1100146	100.4			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	981559	100.6			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	574698	95.3			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.319	10.319	0.000	1.000	7621094	108.6			

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21180.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	25-Oct-2011 19:41:49	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	10/25/11EX5 CCV 100 ug/L 280-0002644-175		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	92964	Lims Sample ID:	175
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:24:25	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

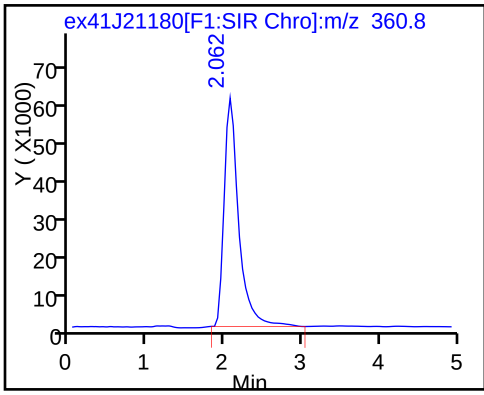
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		805528	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	708905	98.1			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1116302	95.1			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3080464	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	775109	102.9			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	925024	105.5			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1637973	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.034	0.000	1.016	681581	95.7			
9 Nitroglycerin										
2	61.8	5.034	5.034	0.000	1.016	4326130	101.7			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	3083699	98.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	843271	104.4			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	601388	93.5			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.789	4599676	96.9			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.845	3471021	141.7			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.902	7020161	112.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	3906981	129.4			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.949	5567064	101.7			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5146922	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.008	2614776	99.5			
20 PETN										
4	61.8	7.737	7.737	0.000	1.000	4655678	115.5			
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.869	0.000	1.093	1234830	92.3			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	1100146	100.4			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	981559	100.6			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	574698	95.3			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.319	10.319	0.000	1.000	7621094	108.6			

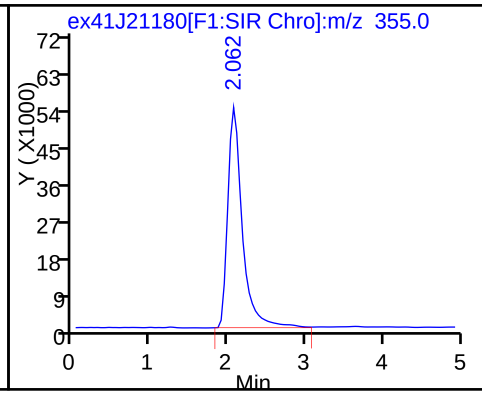
Report Date: 26-Oct-2011 06:24:26   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21180.d

Injection Date:	25-Oct-2011 19:41:49	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	175
Operator ID:		Injection Vol:	40.00 ul

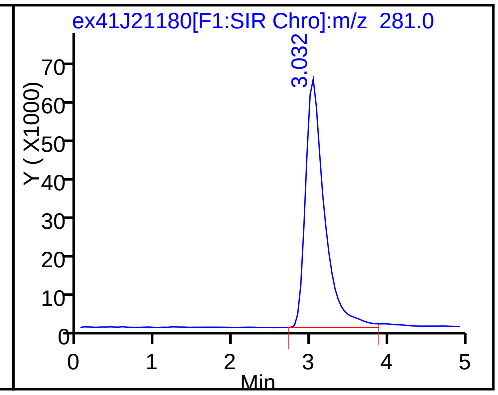
* 1 HMX-13C4



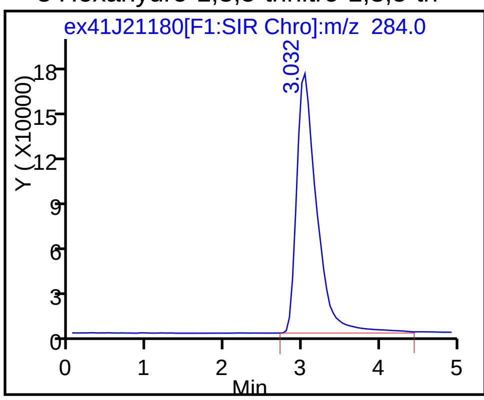
2 HMX



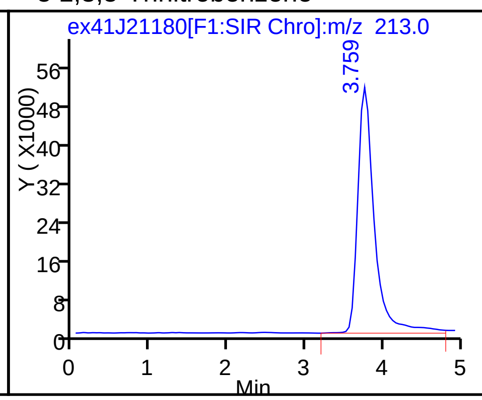
4 RDX



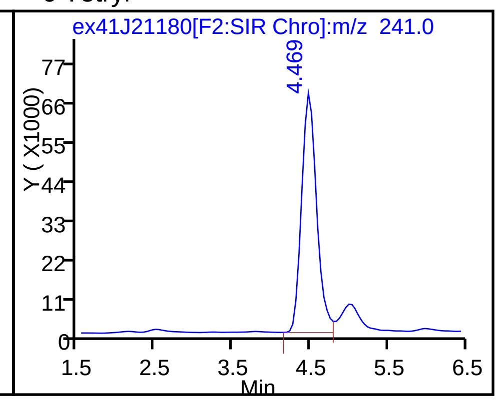
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



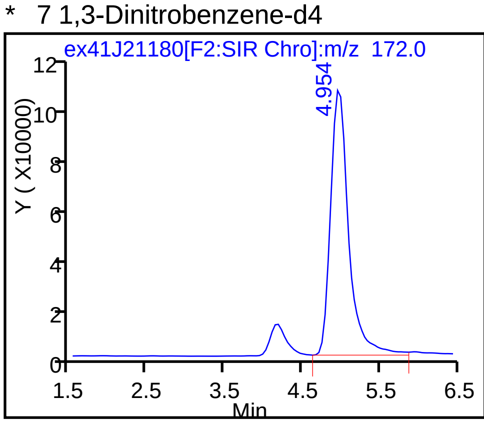
5 1,3,5-Trinitrobenzene



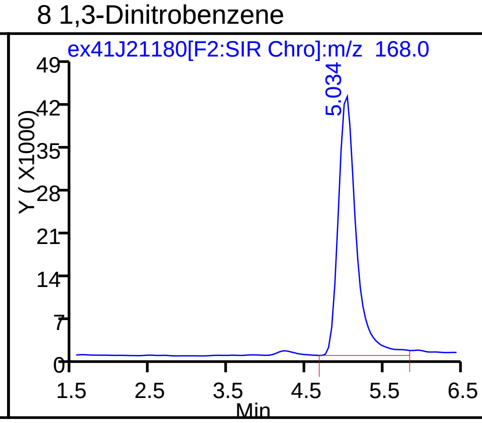
6 Tetryl



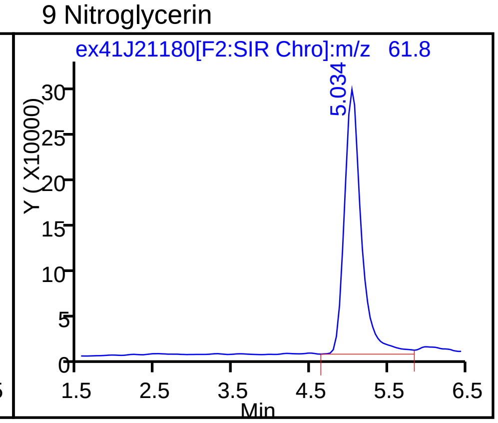
* 7 1,3-Dinitrobenzene-d4



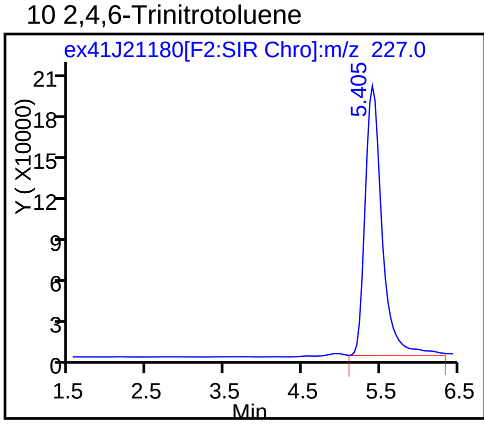
8 1,3-Dinitrobenzene



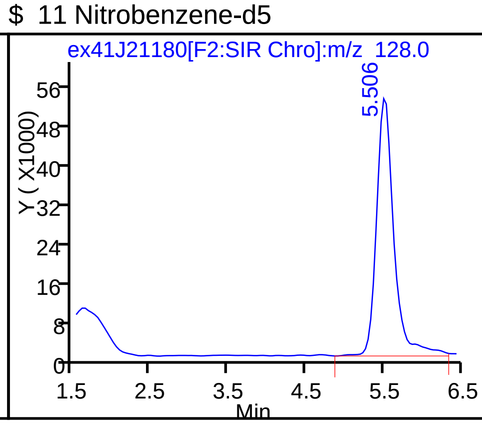
9 Nitroglycerin



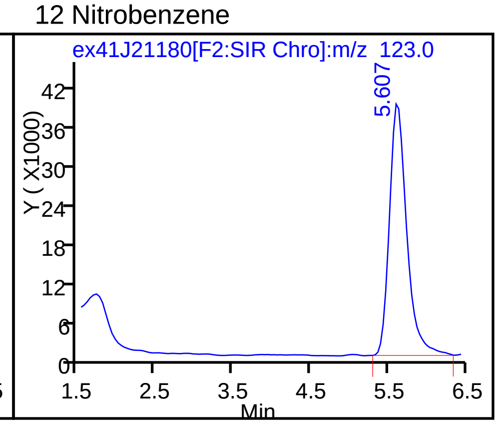
10 2,4,6-Trinitrotoluene



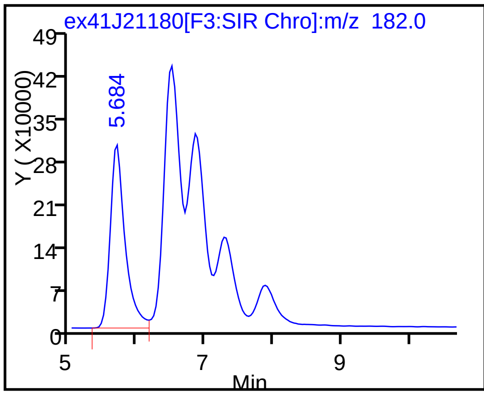
$ 11 Nitrobenzene-d5



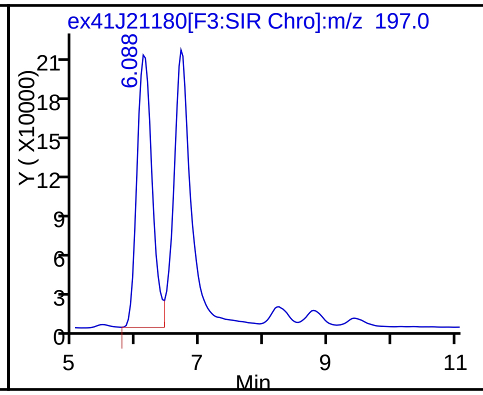
12 Nitrobenzene



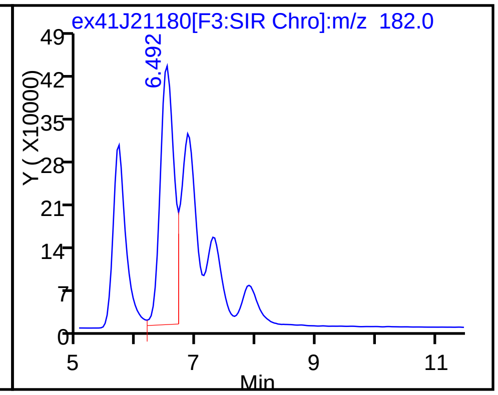
13 3,4-Dinitrotoluene



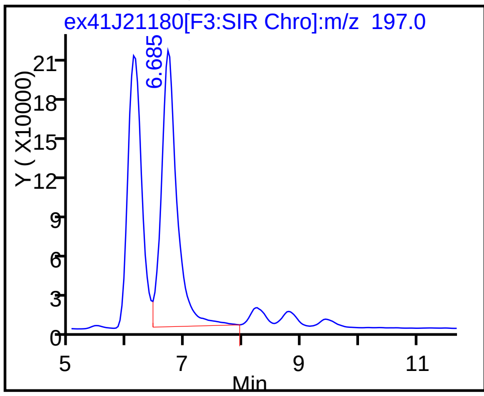
14 4-Amino-2,6-dinitrotoluene



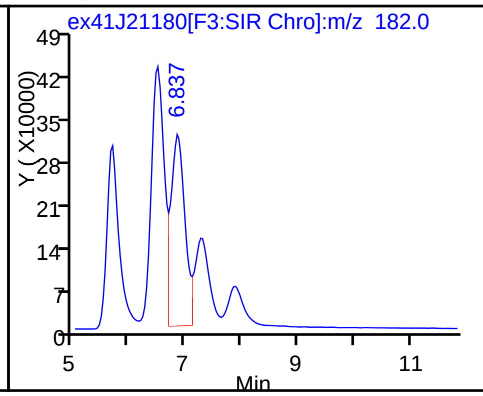
15 2,3-Dinitrotoluene



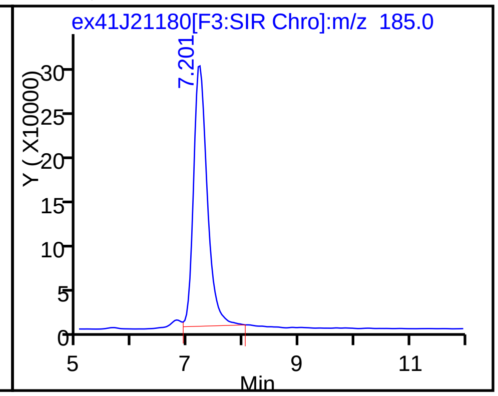
16 2-Amino-4,6-dinitrotoluene



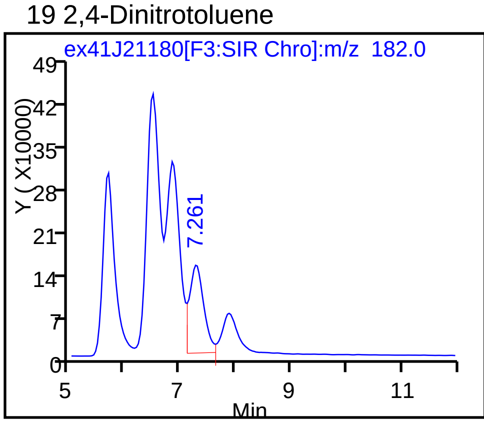
17 2,6-Dinitrotoluene



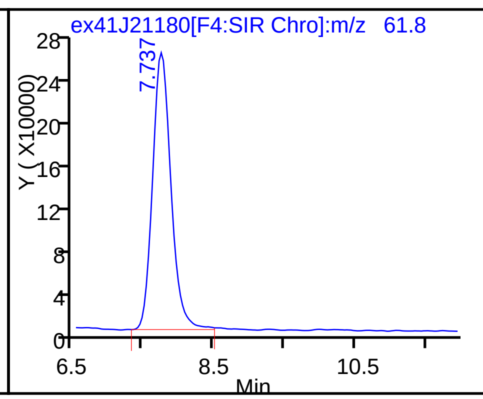
* 18 2,4-dinitrotoluene-d3



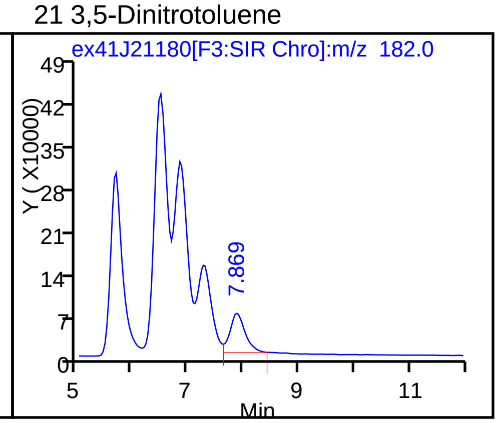
19 2,4-Dinitrotoluene



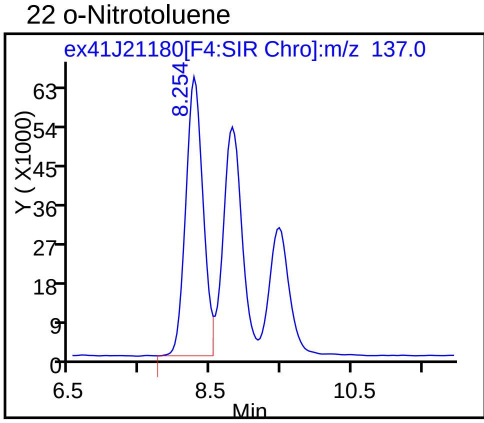
20 PETN



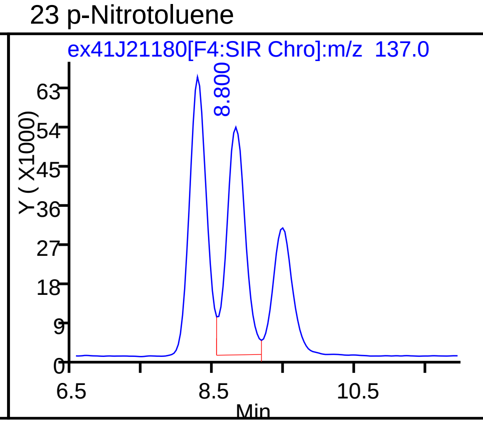
21 3,5-Dinitrotoluene



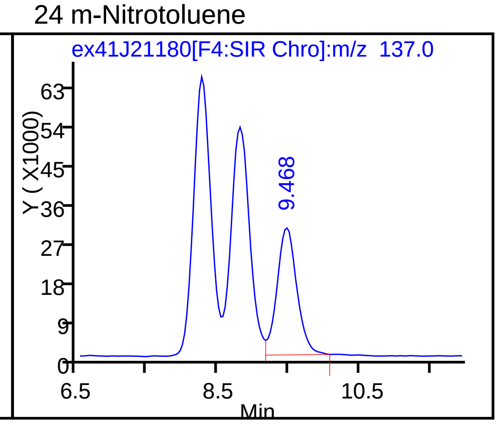
22 o-Nitrotoluene



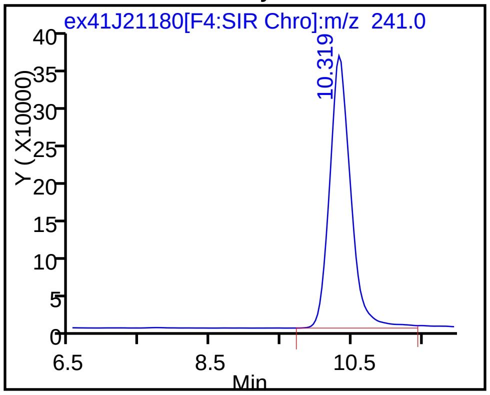
23 p-Nitrotoluene



24 m-Nitrotoluene



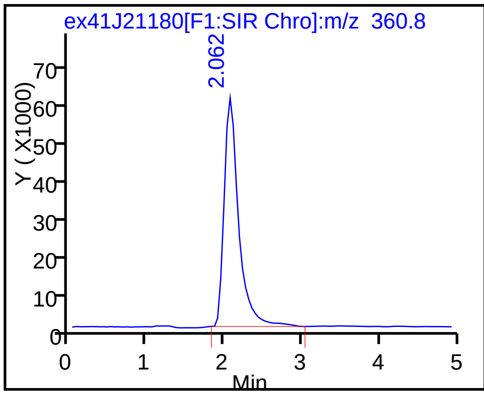
25 2,4,6-Trinitro-3-xylene



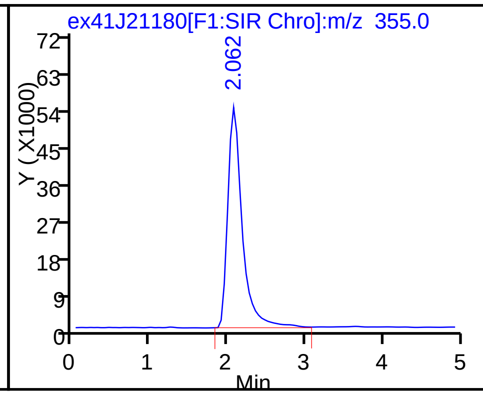
Report Date: 26-Oct-2011 06:24:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21180.d

Injection Date:	25-Oct-2011 19:41:49	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	175
Operator ID:		Injection Vol:	40.00 ul

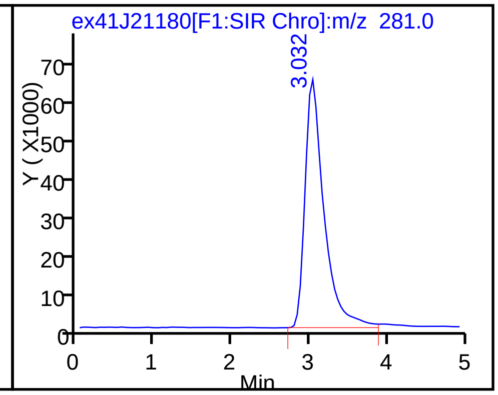
* 1 HMX-13C4



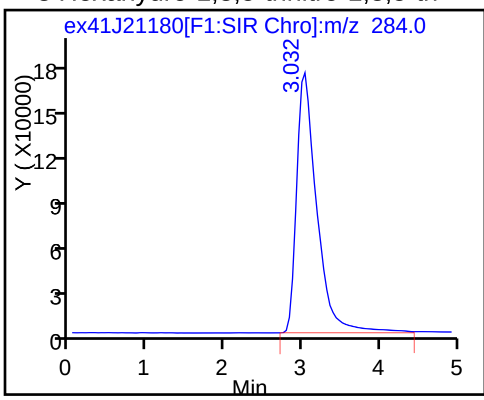
2 HMX



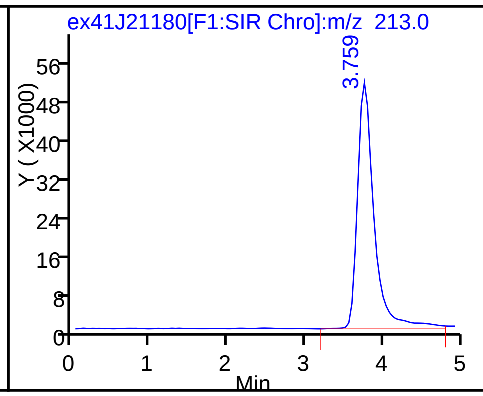
4 RDX



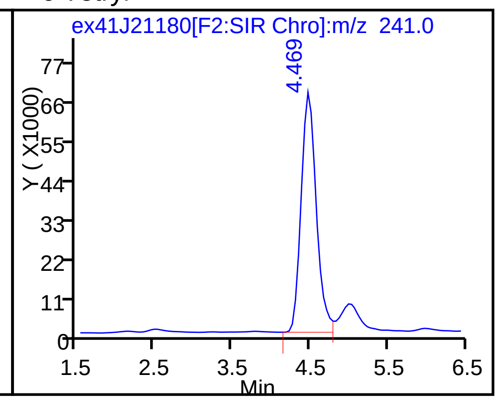
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



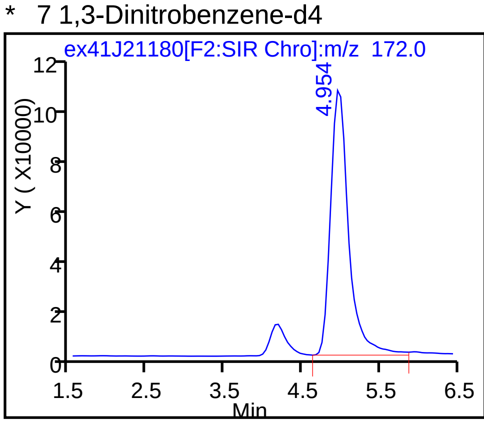
5 1,3,5-Trinitrobenzene



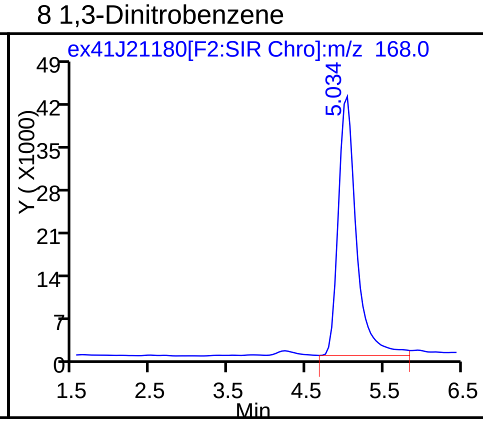
6 Tetryl



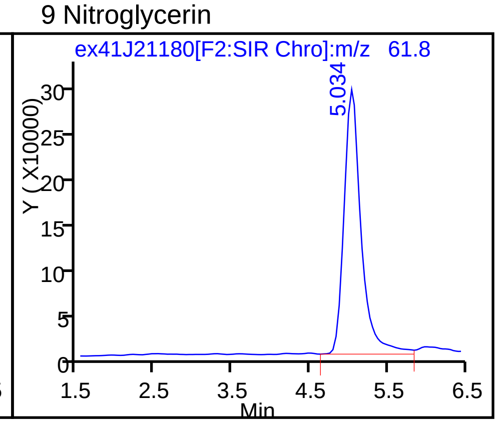
* 7 1,3-Dinitrobenzene-d4



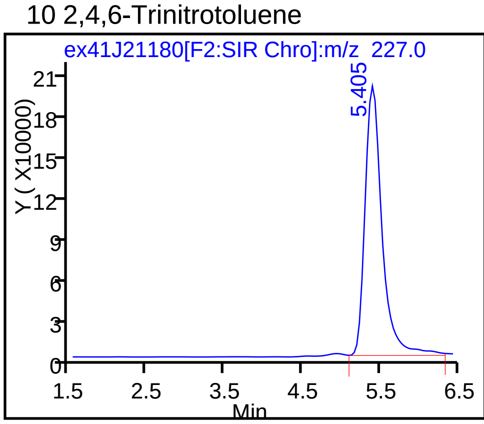
8 1,3-Dinitrobenzene



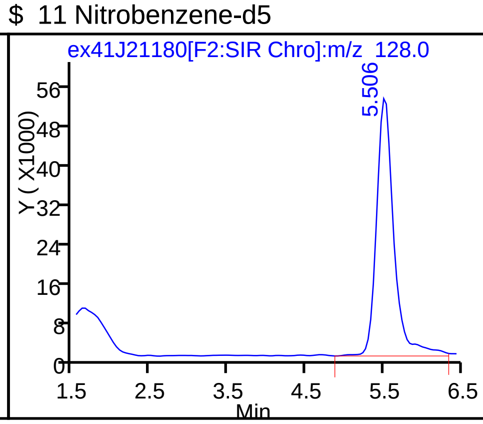
9 Nitroglycerin



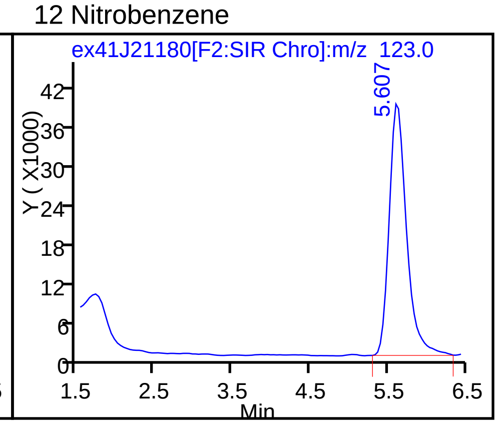
10 2,4,6-Trinitrotoluene



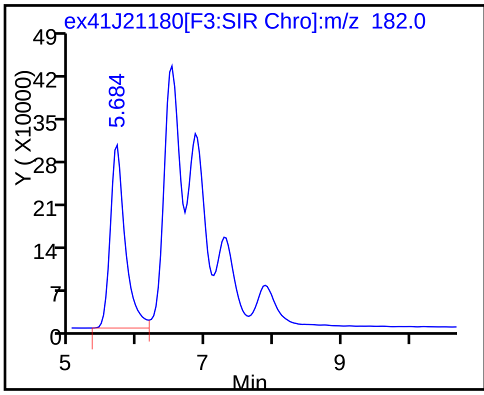
$ 11 Nitrobenzene-d5



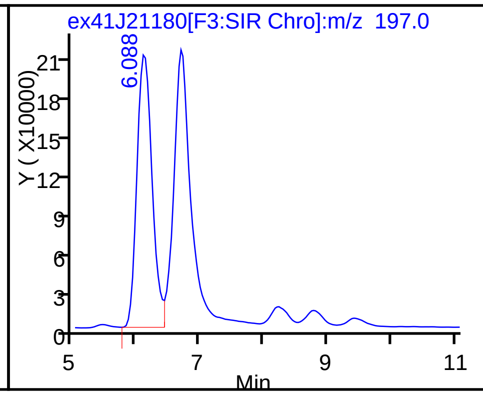
12 Nitrobenzene



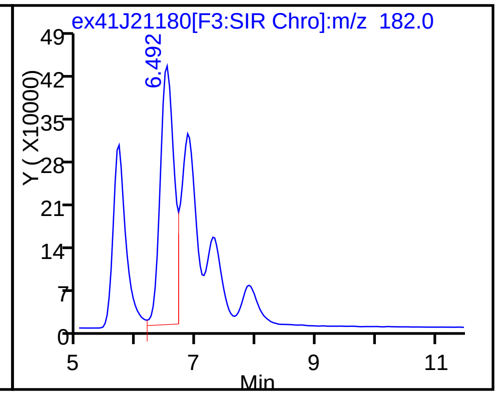
13 3,4-Dinitrotoluene



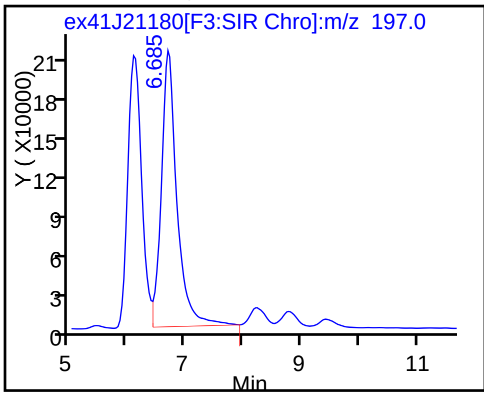
14 4-Amino-2,6-dinitrotoluene



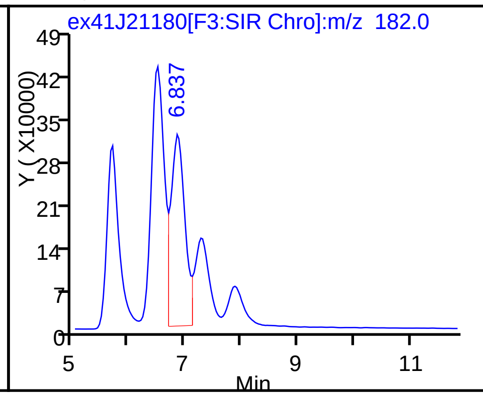
15 2,3-Dinitrotoluene



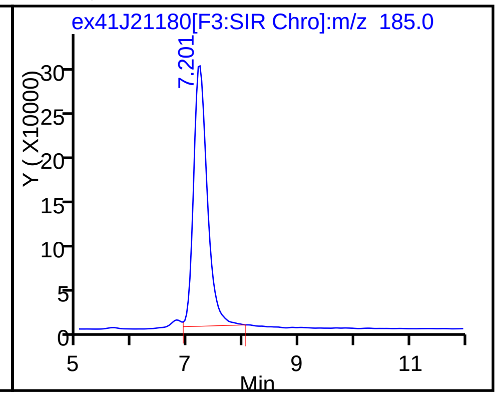
16 2-Amino-4,6-dinitrotoluene



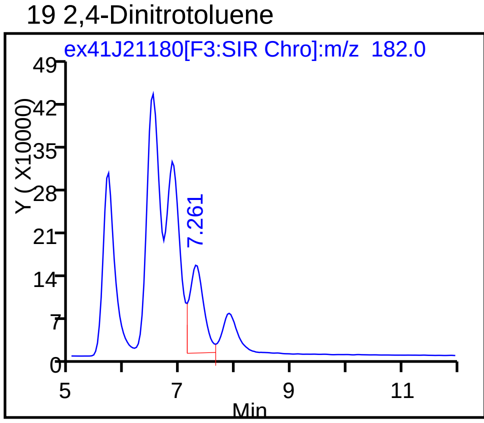
17 2,6-Dinitrotoluene



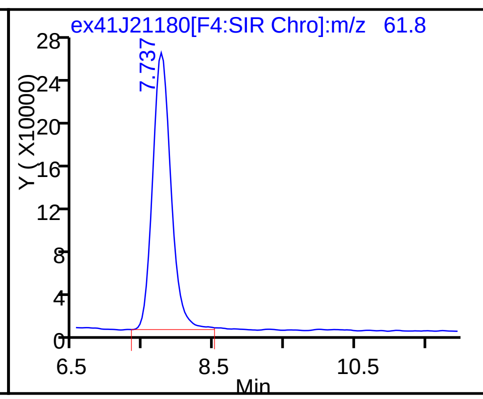
* 18 2,4-dinitrotoluene-d3



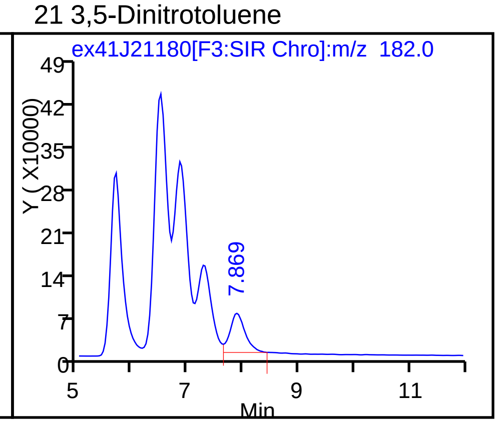
19 2,4-Dinitrotoluene



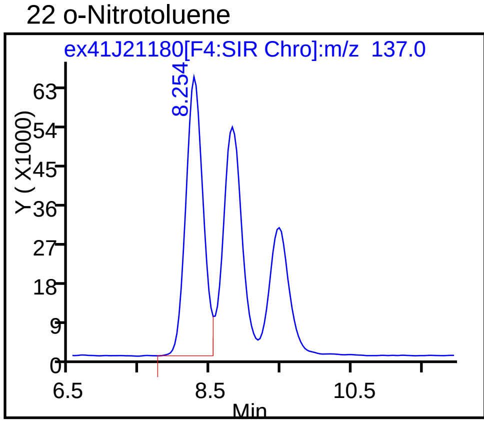
20 PETN



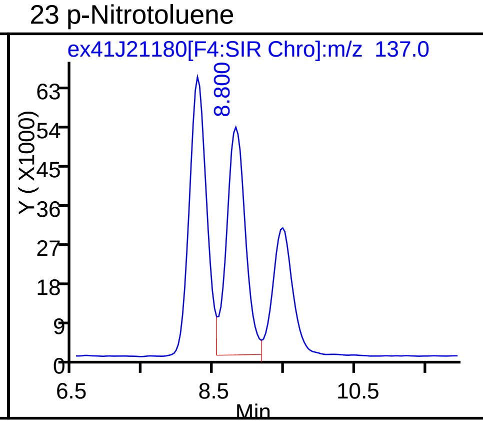
21 3,5-Dinitrotoluene



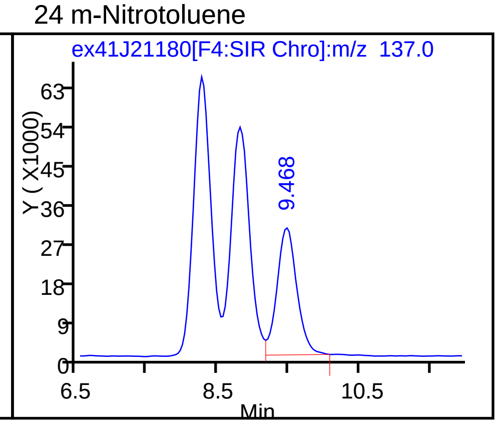
22 o-Nitrotoluene



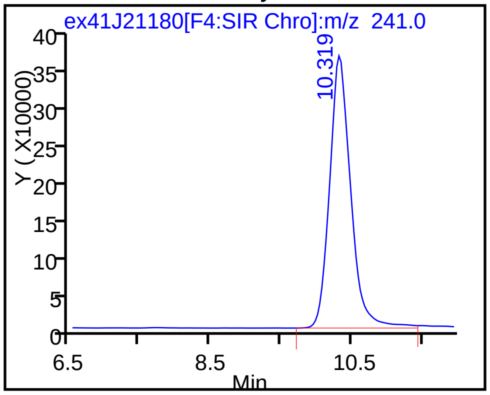
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-92964/183 Calibration Date: 10/25/2011 21:31

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21188.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.257		50.7	50.0	1.4	20.0
RDX	Lin1		1.019		52.7	49.4	6.8	20.0
1,3,5-Trinitrobenzene	Lin1		1.075		46.5	50.1	-7.1	20.0
Tetryl	Lin1		1.359		49.8	49.7	0.2	20.0
1,3-Dinitrobenzene	Lin1		1.116		50.5	50.7	-0.4	20.0
Nitroglycerin	Lin1		7.649		57.4	50.0	14.8	30.0
2,4,6-Trinitrotoluene	Lin1		5.350		54.3	50.1	8.5	20.0
Nitrobenzene	Lin1		1.000		49.2	50.0	-1.5	20.0
3,4-Dinitrotoluene	Lin1		2.769		60.0	50.0	20.0	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.405		58.4	49.4	18.3	20.0
2,3-Dinitrotoluene	Lin1		3.391		55.9	50.0	11.8	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.880		64.0	50.1	27.9*	20.0
2,6-Dinitrotoluene	Lin1		3.108		58.5	50.1	16.9	20.0
2,4-Dinitrotoluene	Lin1		1.382		54.4	50.2	8.5	20.0
PETN	Lin1		2.746		69.2	49.9	38.7*	30.0
3,5-Dinitrotoluene	Lin1		0.6564		51.1	50.0	2.2	30.0
2-Nitrotoluene	Lin1		0.5857		54.5	49.6	10.0	20.0
4-Nitrotoluene	Lin1		0.4897		51.5	49.8	3.5	20.0
3-Nitrotoluene	Lin1		0.3145		53.0	49.4	7.3	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.37		46.9	50.0	-6.2	30.0
Nitrobenzene-d5	Lin1		1.208		47.0	50.0	-6.0	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21188.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	25-Oct-2011 21:31:20	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	10/25/11EX4 CCV 50 ug/L 280-0002644-183		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	92964	Lims Sample ID:	183
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:13	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

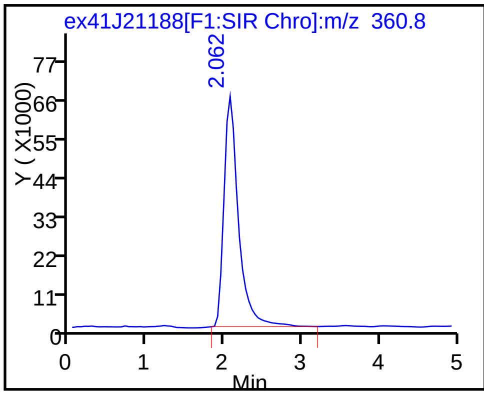
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		871505	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	393342	50.7			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	650481	52.7			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3234030	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	359101	46.5			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	450738	49.8			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1726384	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	377707	50.5			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	2551842	57.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	1786795	54.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	403180	47.0			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	333324	49.2			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.789	2561651	60.0			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.850	1282596	58.4			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.902	3134442	55.9			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.932	1740301	64.0			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	2876538	58.5			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4623294	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.008	1281382	54.4			
20 PETN										
4	61.8	7.737	7.737	0.000	1.000	2534207	69.2			
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.869	0.000	1.093	606950	51.1			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	536723	54.5			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	450510	51.5			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	287268	53.0			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.319	10.319	0.000	1.000	3460582	46.9			

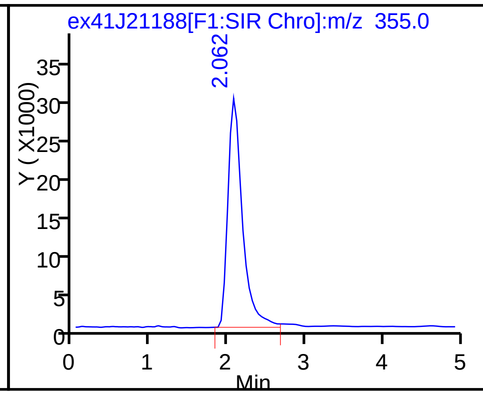
Report Date: 26-Oct-2011 09:44:14 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21188.d

Injection Date:	25-Oct-2011 21:31:20	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	183
Operator ID:		Injection Vol:	40.00 ul

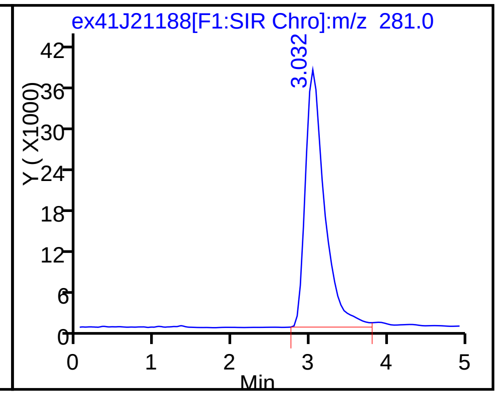
* 1 HMX-13C4



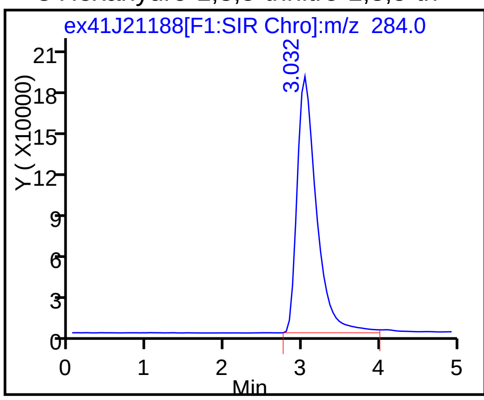
2 HMX



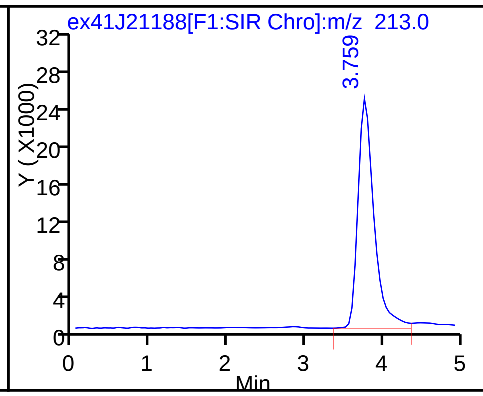
4 RDX



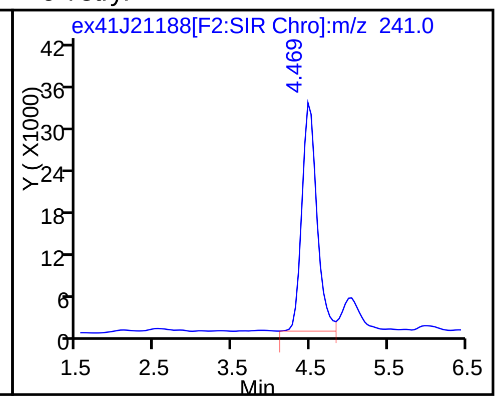
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



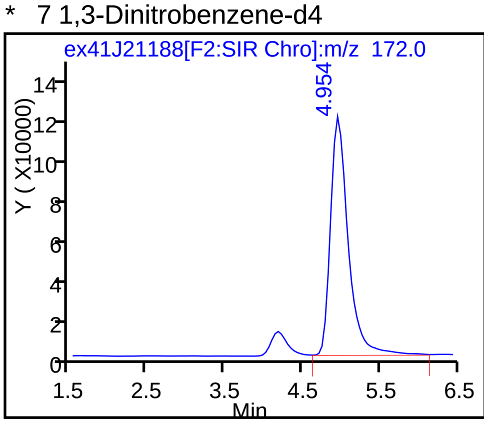
5 1,3,5-Trinitrobenzene



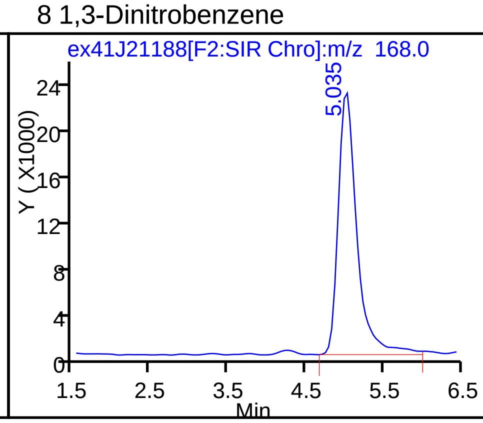
6 Tetryl



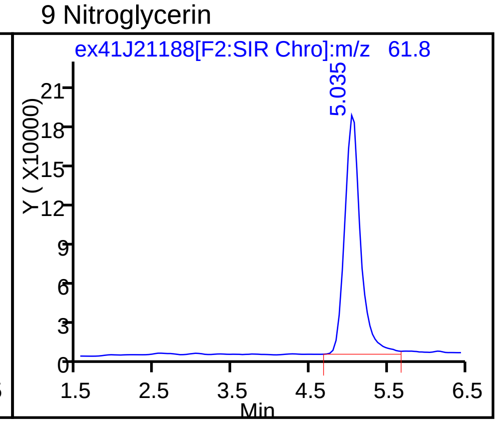
* 7 1,3-Dinitrobenzene-d4



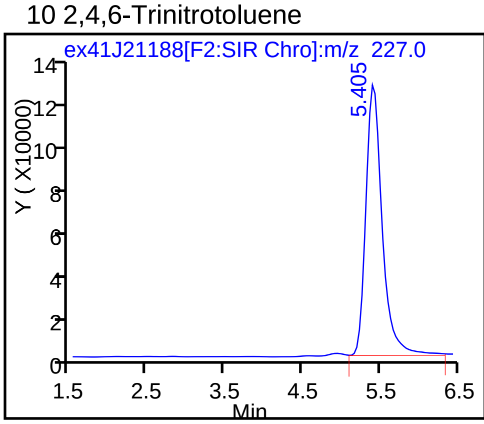
8 1,3-Dinitrobenzene



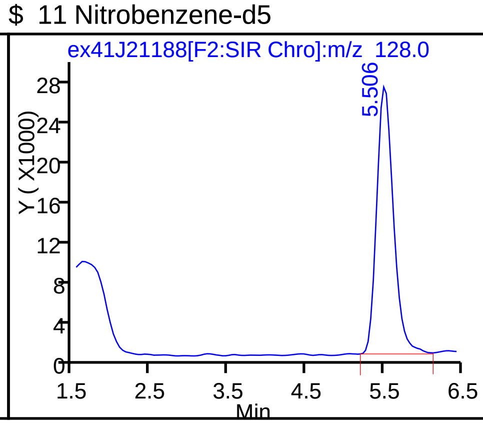
9 Nitroglycerin



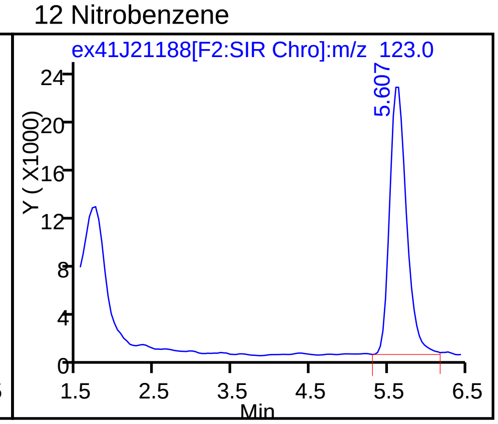
10 2,4,6-Trinitrotoluene



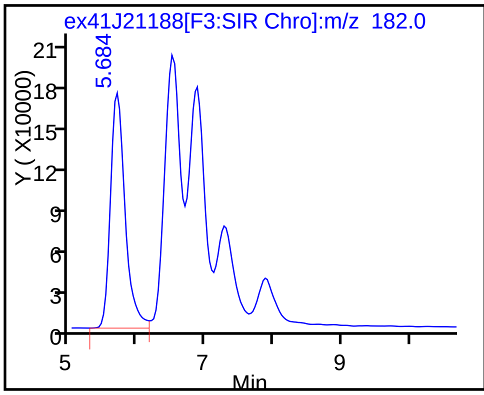
$ 11 Nitrobenzene-d5



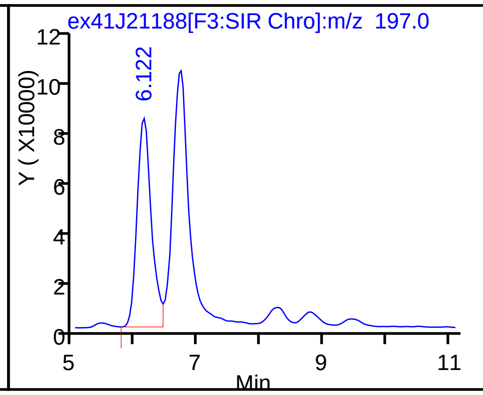
12 Nitrobenzene



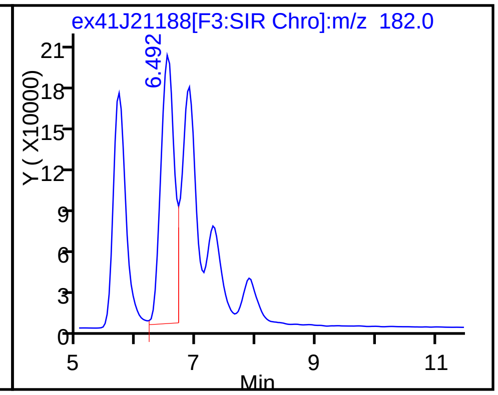
13 3,4-Dinitrotoluene



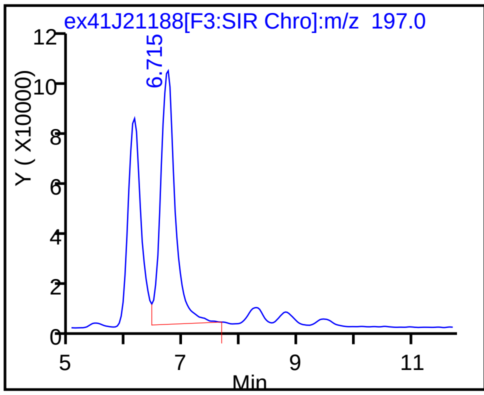
14 4-Amino-2,6-dinitrotoluene



15 2,3-Dinitrotoluene



16 2-Amino-4,6-dinitrotoluene



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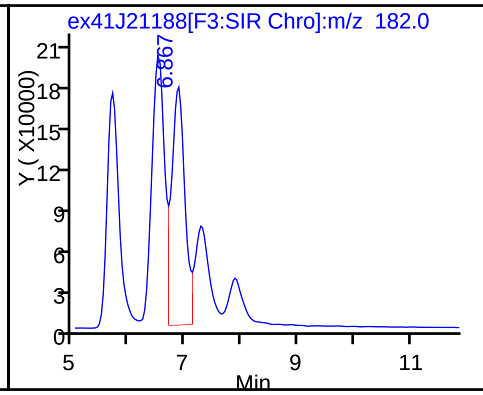
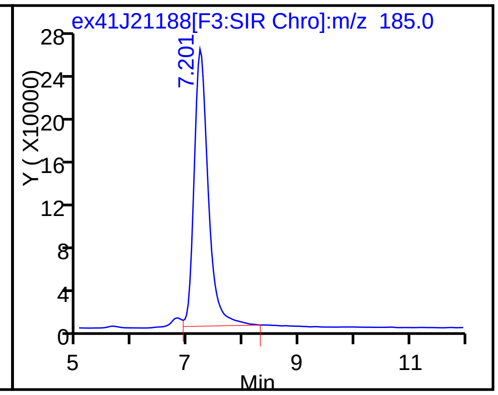


* 18 2,4-dinitrotoluene-d3



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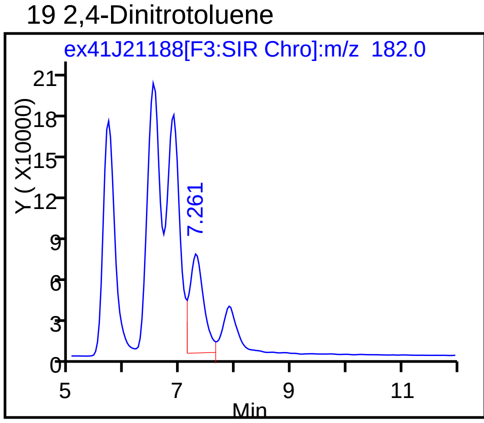
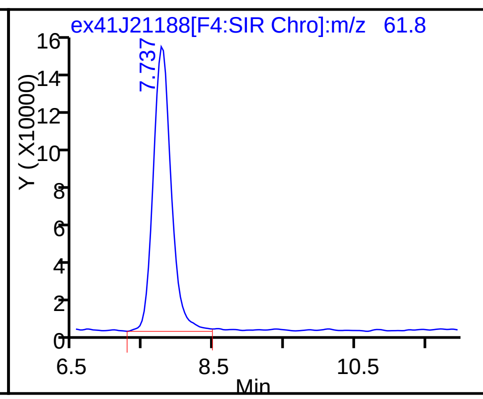
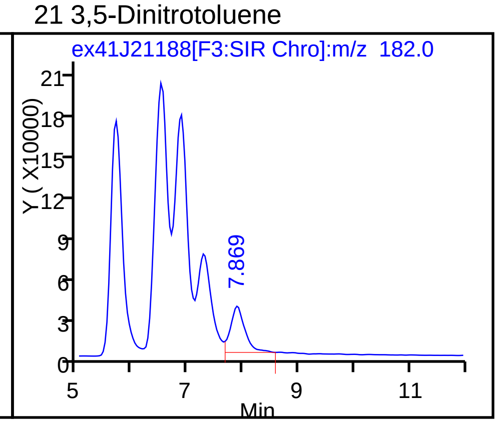


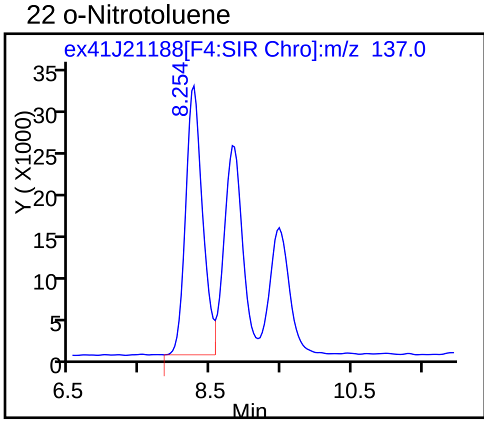
20 PETN



21 3,5-Dinitrotoluene



22 o-Nitrotoluene



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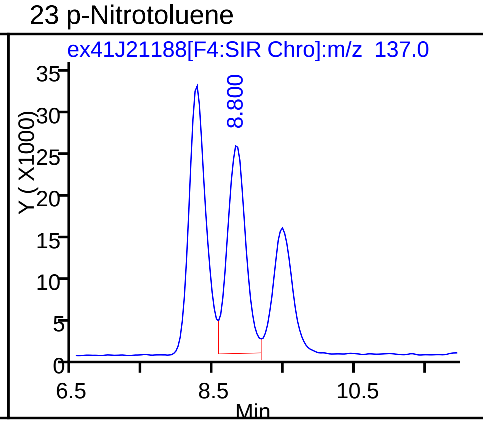
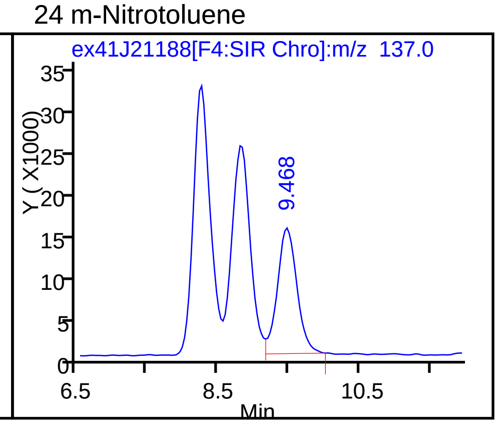
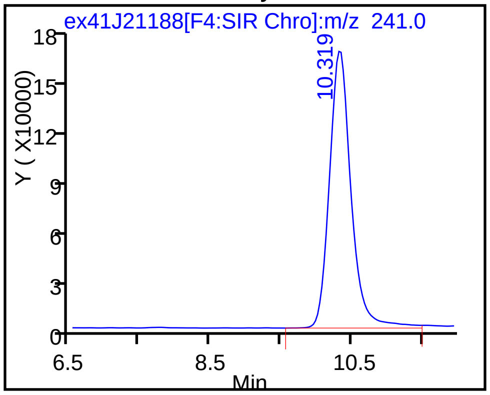


24 m-Nitrotoluene



Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21188.d

25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-92964/191 Calibration Date: 10/26/2011 06:58

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21197.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.239		50.3	50.0	0.6	20.0
RDX	Lin1		1.055		54.5	49.4	10.4	20.0
1,3,5-Trinitrobenzene	Lin1		1.154		49.8	50.1	-0.5	20.0
Tetryl	Lin1		1.432		52.4	49.7	5.4	20.0
1,3-Dinitrobenzene	Lin1		1.261		57.0	50.7	12.4	20.0
Nitroglycerin	Lin1		8.065		60.5	50.0	21.0	30.0
2,4,6-Trinitrotoluene	Lin1		5.357		54.4	50.1	8.7	20.0
Nitrobenzene	Lin1		1.073		52.8	50.0	5.7	20.0
3,4-Dinitrotoluene	Lin1		2.675		57.9	50.0	15.8	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.474		61.2	49.4	24.0*	20.0
2,3-Dinitrotoluene	Lin1		3.409		56.2	50.0	12.4	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.904		64.8	50.1	29.5*	20.0
2,6-Dinitrotoluene	Lin1		3.122		58.7	50.1	17.3	20.0
2,4-Dinitrotoluene	Lin1		1.459		57.4	50.2	14.5	20.0
PETN	Lin1		2.974		75.1	49.9	50.5*	30.0
3,5-Dinitrotoluene	Lin1		0.7486		58.1	50.0	16.2	30.0
2-Nitrotoluene	Lin1		0.5988		55.7	49.6	12.4	20.0
4-Nitrotoluene	Lin1		0.5225		55.0	49.8	10.6	20.0
3-Nitrotoluene	Lin1		0.3373		56.8	49.4	15.0	20.0
2,4,6-Trinitro-3-xylene	Lin1		11.78		53.2	50.0	6.4	30.0
Nitrobenzene-d5	Lin1		1.271		49.5	50.0	-1.0	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21197.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	26-Oct-2011 06:58:53	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	10/25/11EX4 CCV 50 ug/L 280-0002644-191		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	92964	Lims Sample ID:	191
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:20	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

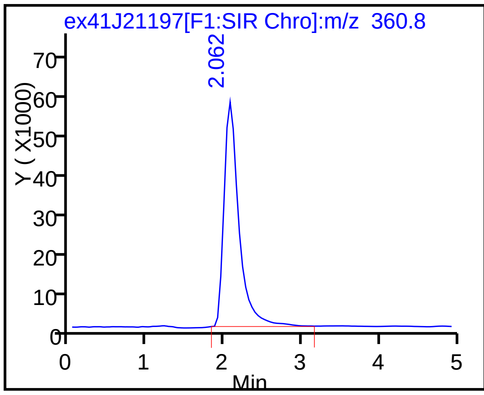
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		776909	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	347928	50.3			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	626296	54.5			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3008730	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	349620	49.8			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	430847	52.4			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1566071	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.034	0.000	1.016	386867	57.0			
9 Nitroglycerin										
2	61.8	5.034	5.034	0.000	1.016	2440895	60.5			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	1622997	54.4			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	384703	49.5			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	324424	52.8			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.786	2283311	57.9			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.842	1240943	61.2			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.898	2908067	56.2			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.924	1625713	64.8			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.945	2666223	58.7			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4265906	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	1248211	57.4			
20 PETN										
4	61.8	7.737	7.737	0.000	1.000	2531909	75.1			
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.869	0.000	1.088	638702	58.1			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	506297	55.7			
23 p-Nitrotoluene										
4	137.0	8.830	8.830	0.000	1.000	443538	55.0			
24 m-Nitrotoluene										
4	137.0	9.499	9.499	0.000	1.000	284321	56.8			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.349	10.349	0.000	1.000	3563795	53.2			

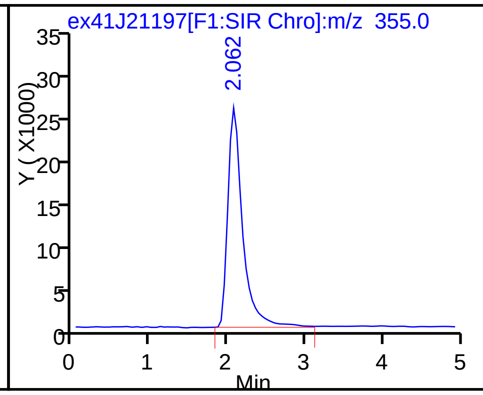
Report Date: 26-Oct-2011 09:44:20 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21197.d

Injection Date:	26-Oct-2011 06:58:53	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	191
Operator ID:		Injection Vol:	40.00 ul

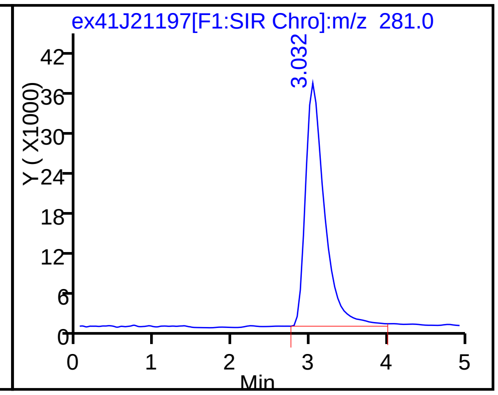
* 1 HMX-13C4



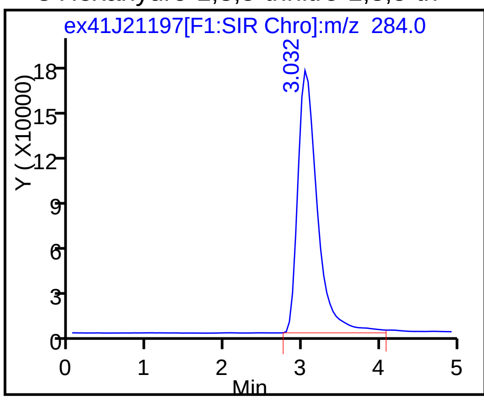
2 HMX



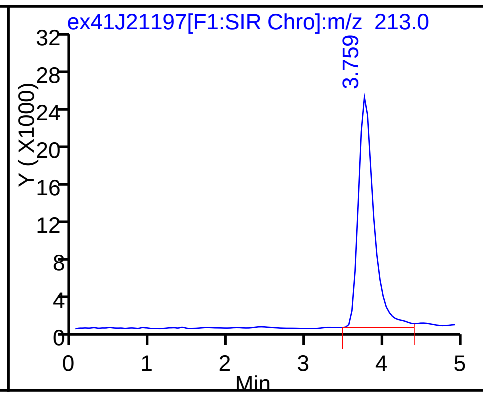
4 RDX



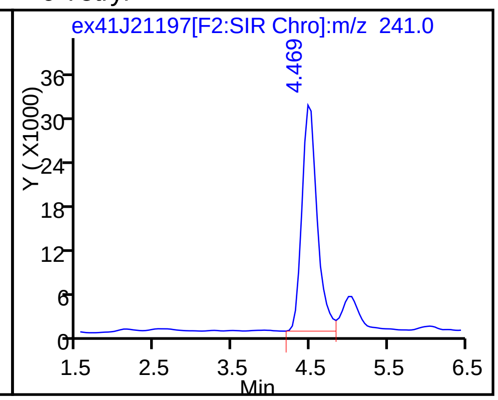
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



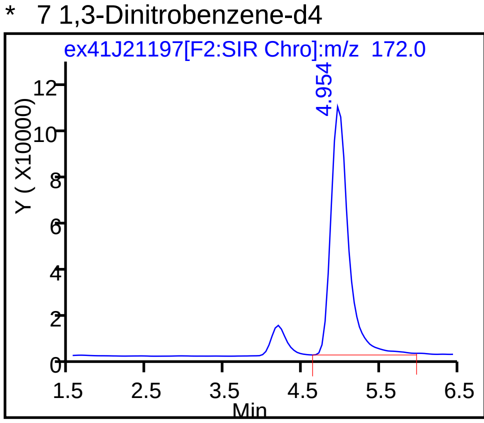
5 1,3,5-Trinitrobenzene



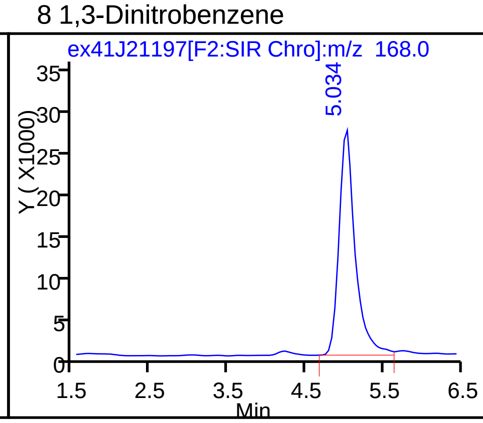
6 Tetryl



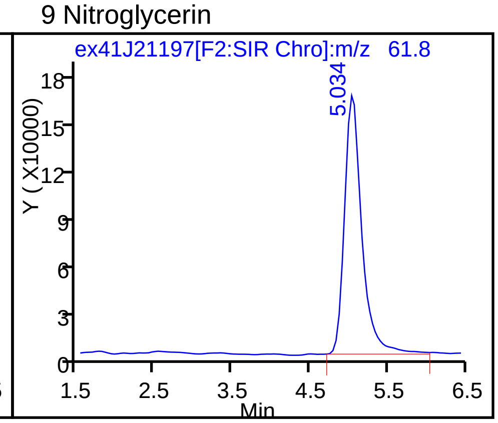
* 7 1,3-Dinitrobenzene-d4



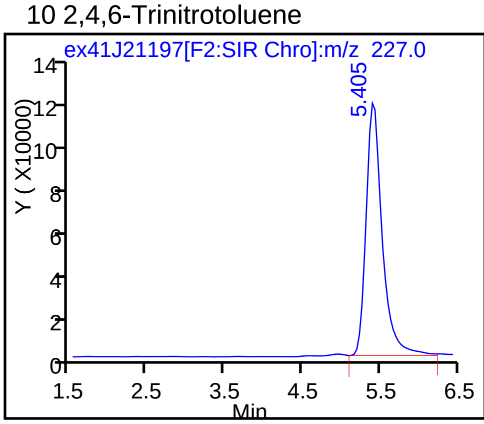
8 1,3-Dinitrobenzene



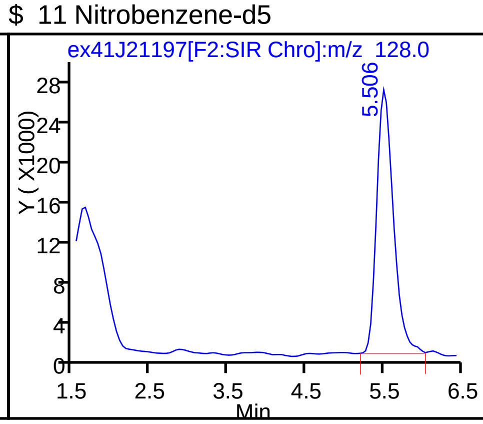
9 Nitroglycerin



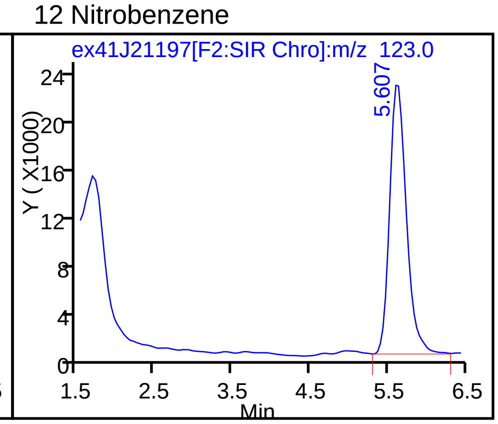
10 2,4,6-Trinitrotoluene



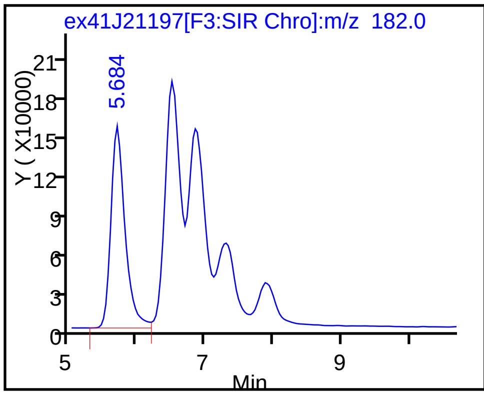
$ 11 Nitrobenzene-d5



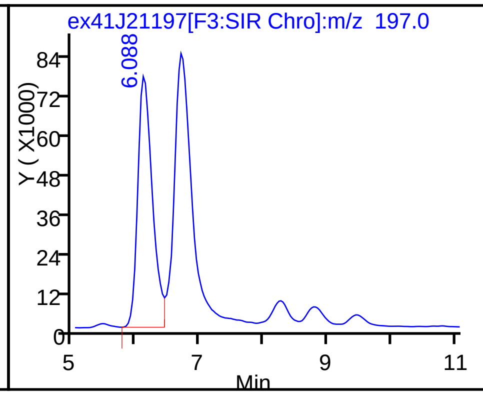
12 Nitrobenzene



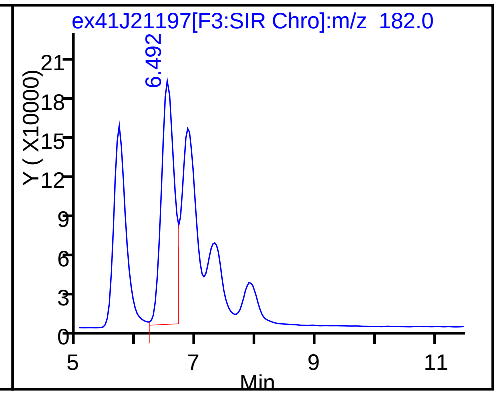
13 3,4-Dinitrotoluene



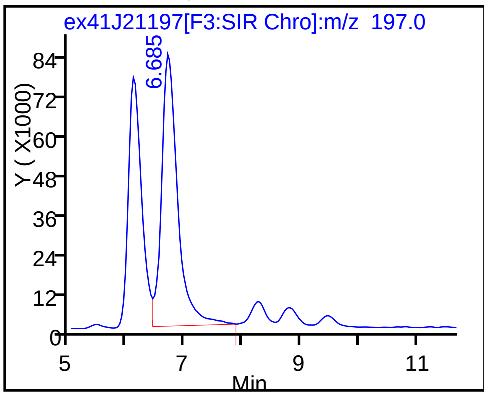
14 4-Amino-2,6-dinitrotoluene



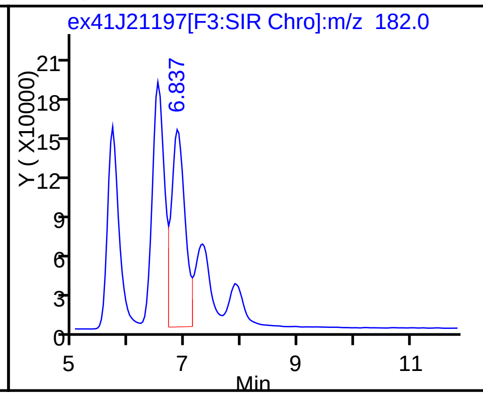
15 2,3-Dinitrotoluene



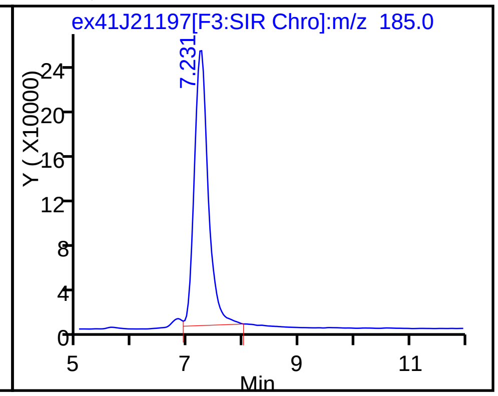
16 2-Amino-4,6-dinitrotoluene



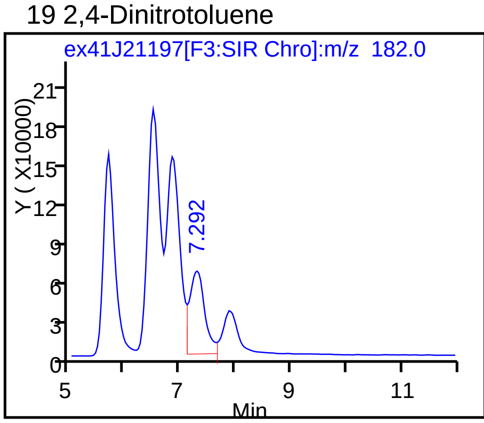
17 2,6-Dinitrotoluene



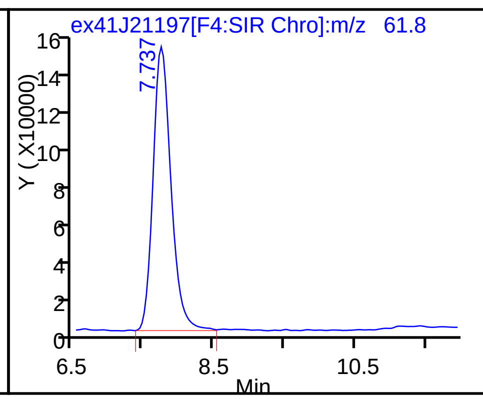
* 18 2,4-dinitrotoluene-d3



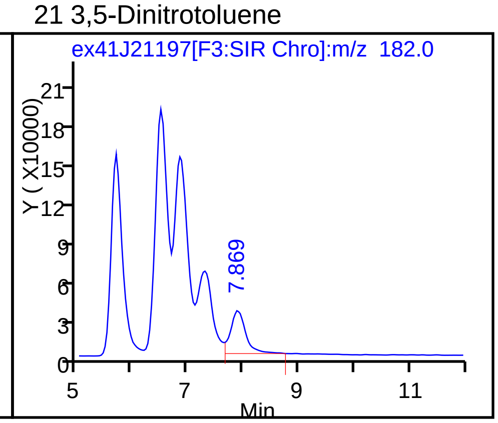
19 2,4-Dinitrotoluene



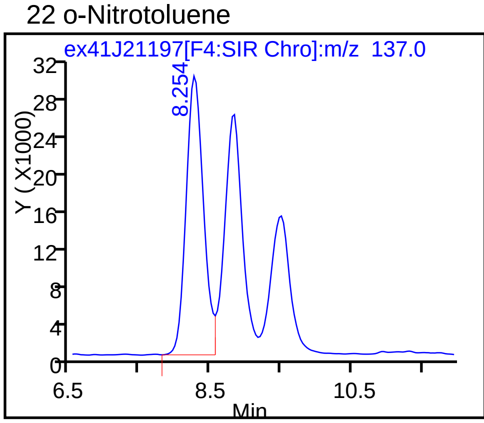
20 PETN



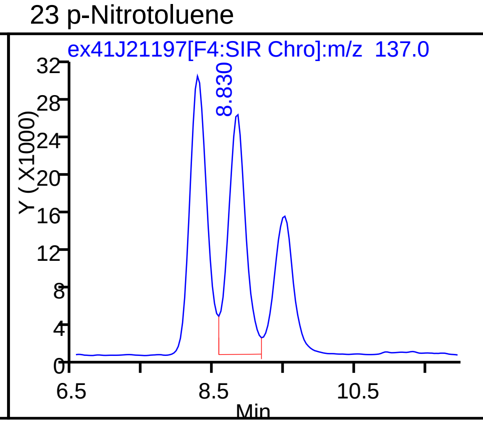
21 3,5-Dinitrotoluene



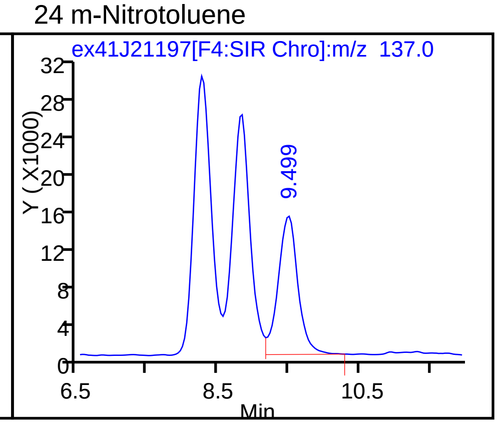
22 o-Nitrotoluene



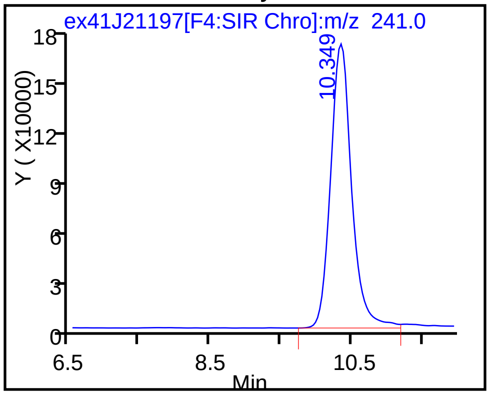
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-92964/198 Calibration Date: 10/26/2011 09:18

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21205.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.090		93.2	100	-6.8	20.0
RDX	Lin1		0.9756		101	98.7	2.4	20.0
1,3,5-Trinitrobenzene	Lin1		1.044		88.2	100	-11.9	20.0
Tetryl	Lin1		1.241		89.4	99.4	-10.1	20.0
1,3-Dinitrobenzene	Lin1		1.154		104	101	2.6	20.0
Nitroglycerin	Lin1		7.142		106	100	6.3	30.0
2,4,6-Trinitrotoluene	Lin1		4.645		93.9	100	-6.2	20.0
Nitrobenzene	Lin1		0.9048		89.0	99.9	-10.9	20.0
3,4-Dinitrotoluene	Lin1		2.540		110	100	10.2	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.280		106	98.7	7.6	20.0
2,3-Dinitrotoluene	Lin1		3.118		103	100	3.0	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.834		125	100	25.1*	20.0
2,6-Dinitrotoluene	Lin1		2.681		101	100	0.8	20.0
2,4-Dinitrotoluene	Lin1		1.209		95.1	100	-5.2	20.0
PETN	Lin1		2.395		122	99.8	22.4	30.0
3,5-Dinitrotoluene	Lin1		0.5657		87.1	100	-12.9	30.0
2-Nitrotoluene	Lin1		0.5224		97.3	99.1	-1.8	20.0
4-Nitrotoluene	Lin1		0.4679		98.2	99.5	-1.3	20.0
3-Nitrotoluene	Lin1		0.2990		101	98.8	2.1	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.37		93.6	100	-6.4	30.0
Nitrobenzene-d5	Lin1		1.121		87.8	100	-12.2	20.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21205.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	26-Oct-2011 09:18:43	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	10/25/11EX5 CCV 100 ug/L 280-0002644-198		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	92964	Lims Sample ID:	198
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:25	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

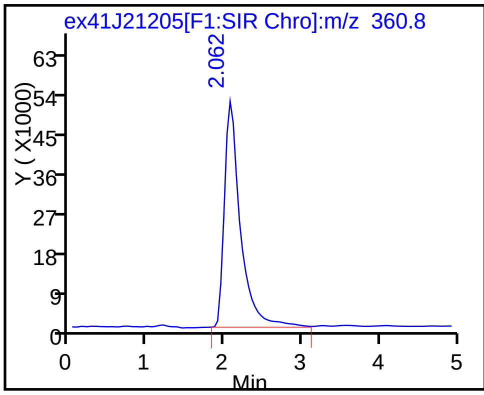
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		747402	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	624680	93.2			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1235190	101.1			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3207073	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	739633	88.2			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	873121	89.4			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1830757	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.068	0.000	1.015	828059	104.0			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	5053599	106.3			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.089	3289889	93.9			
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.540	0.000	1.109	793375	87.8			
12 Nitrobenzene										
2	123.0	5.674	5.674	0.000	1.136	639619	89.0			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.787	4915854	110.2			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.156	0.000	0.848	2444035	106.2			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.563	6.563	0.000	0.904	6030697	103.0			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.745	6.745	0.000	0.929	3551231	125.2			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.897	0.000	0.950	5190784	100.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.262	0.000		4836070	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.322	7.322	0.000	1.008	2346688	95.1			
20 PETN										
4	61.8	7.828	7.828	0.000	1.000	4623925	122.2			
21 3,5-Dinitrotoluene										
3	182.0	7.960	7.960	0.000	1.096	1094291	87.1			
22 o-Nitrotoluene										
4	137.0	8.345	8.345	0.000	1.000	1001353	97.3			
23 p-Nitrotoluene										
4	137.0	8.891	8.891	0.000	1.000	900642	98.2			
24 m-Nitrotoluene										
4	137.0	9.559	9.559	0.000	1.000	571433	100.9			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.440	10.440	0.000	1.000	7336763	93.6			

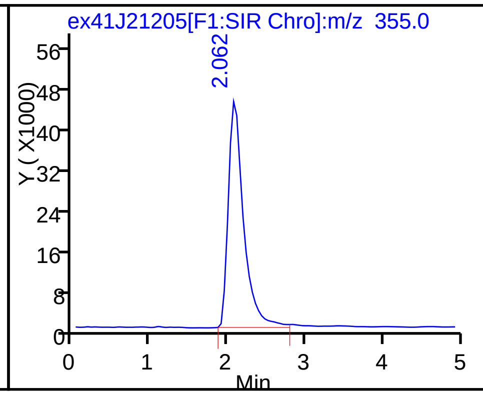
Report Date: 26-Oct-2011 09:44:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21205.d

Injection Date:	26-Oct-2011 09:18:43	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	198
Operator ID:		Injection Vol:	40.00 ul

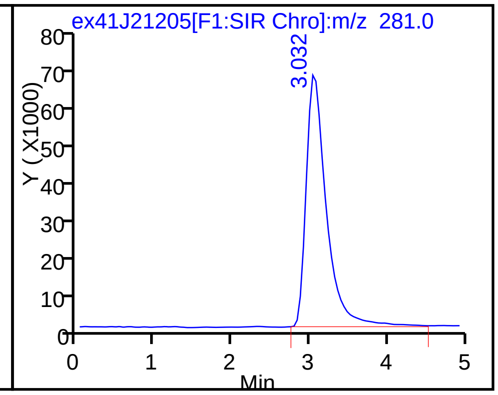
* 1 HMX-13C4



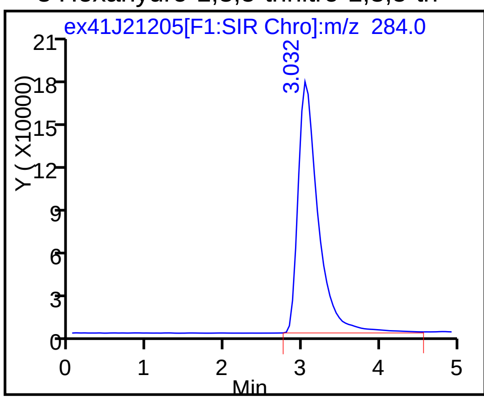
2 HMX



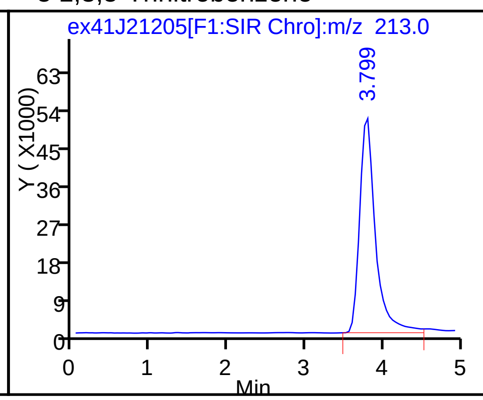
4 RDX



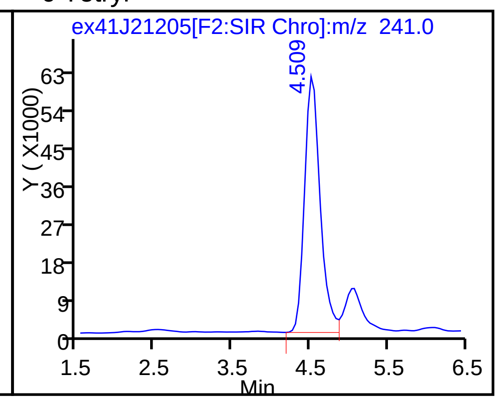
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



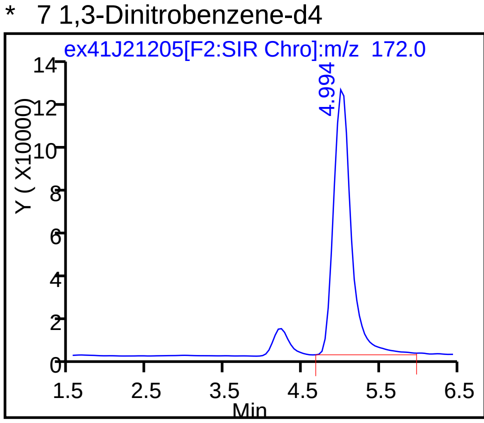
5 1,3,5-Trinitrobenzene



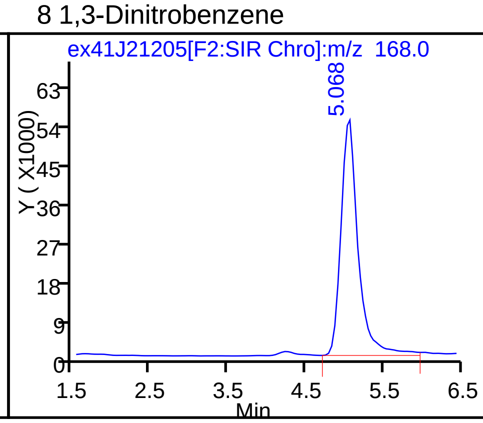
6 Tetryl



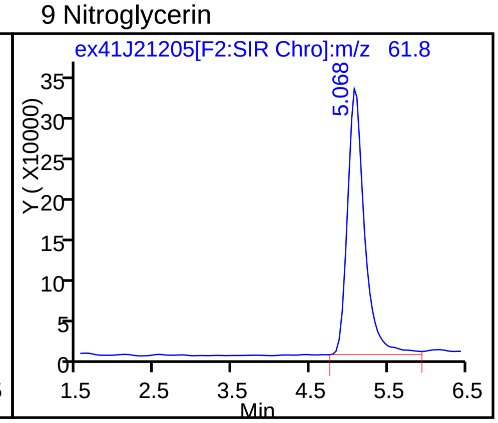
* 7 1,3-Dinitrobenzene-d4



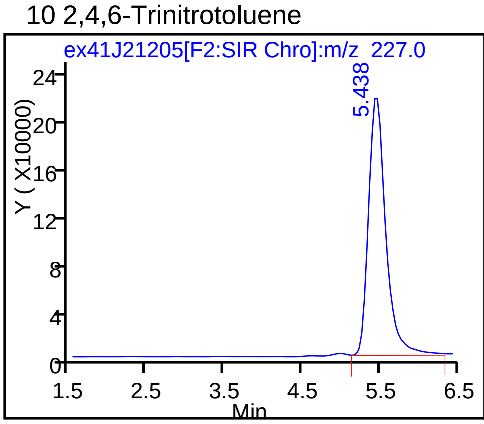
8 1,3-Dinitrobenzene



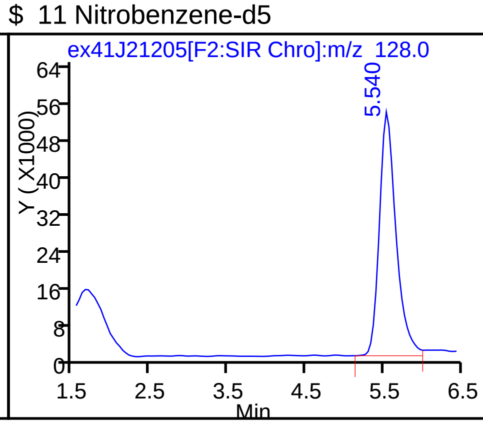
9 Nitroglycerin



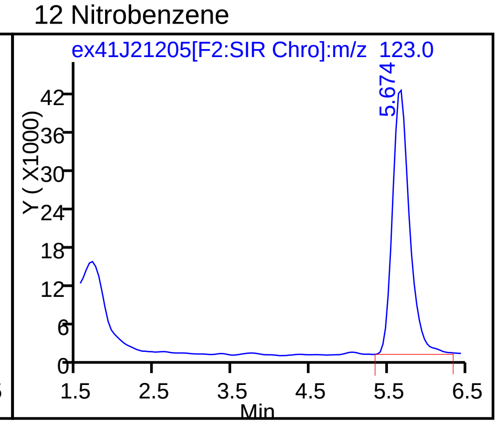
10 2,4,6-Trinitrotoluene



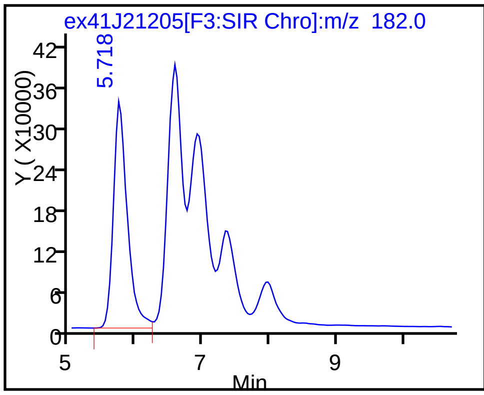
$ 11 Nitrobenzene-d5



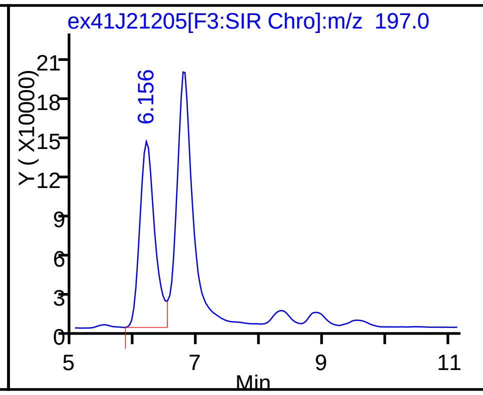
12 Nitrobenzene



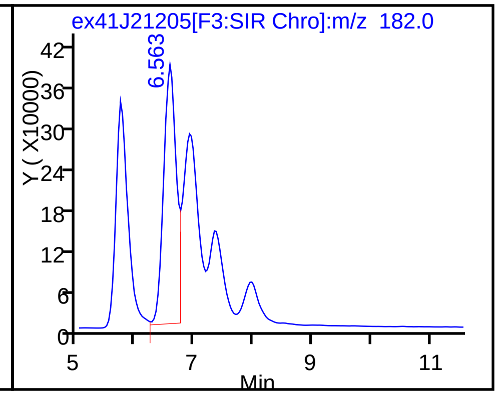
13 3,4-Dinitrotoluene



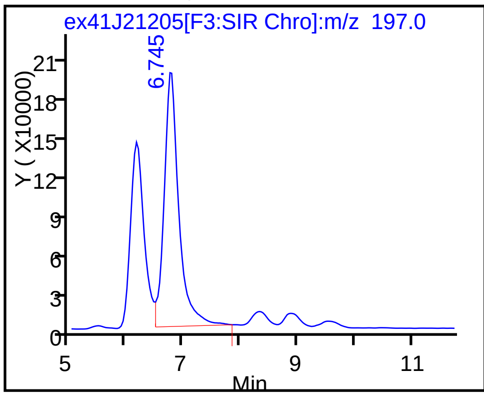
14 4-Amino-2,6-dinitrotoluene



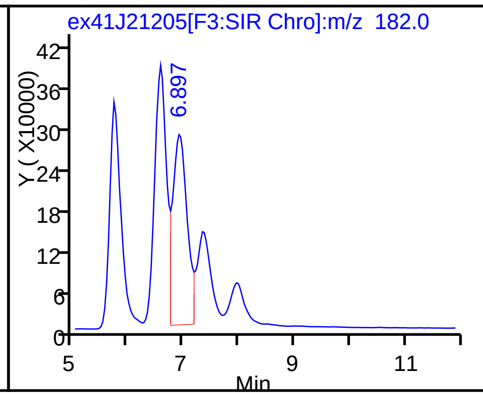
15 2,3-Dinitrotoluene



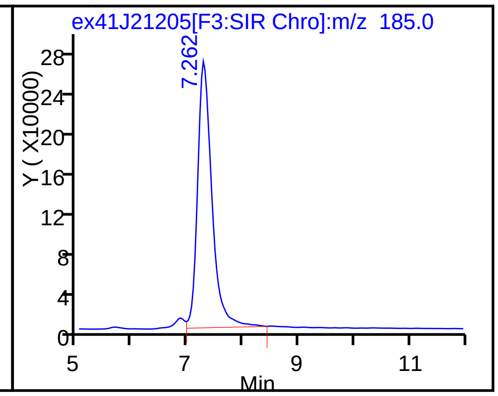
16 2-Amino-4,6-dinitrotoluene



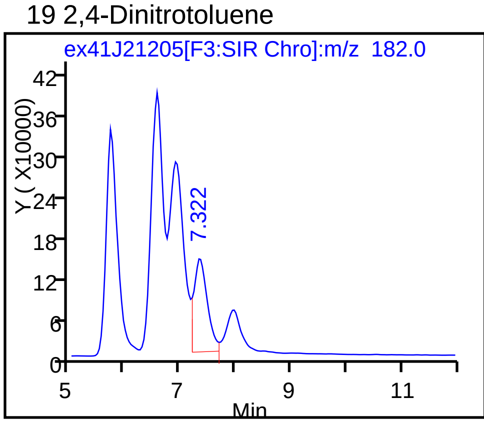
17 2,6-Dinitrotoluene



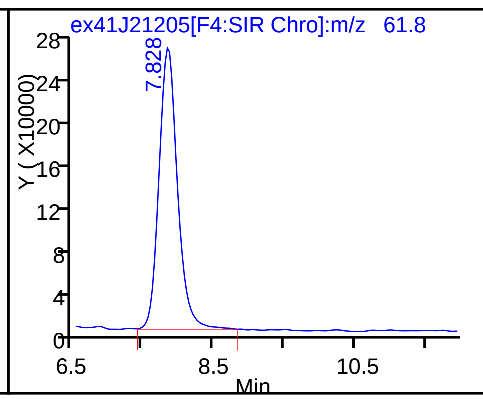
* 18 2,4-dinitrotoluene-d3



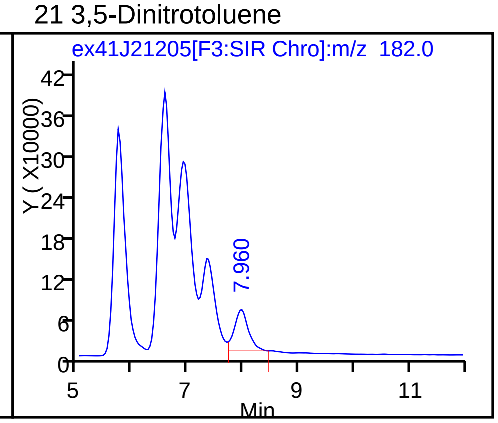
19 2,4-Dinitrotoluene



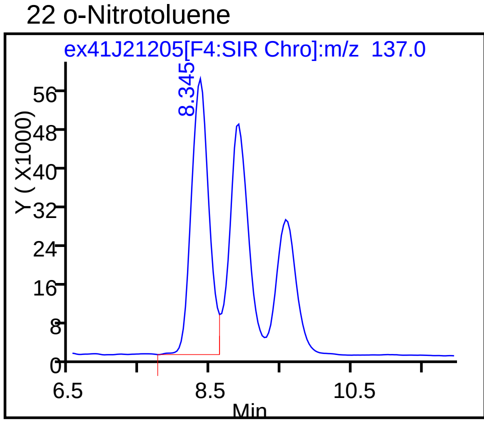
20 PETN



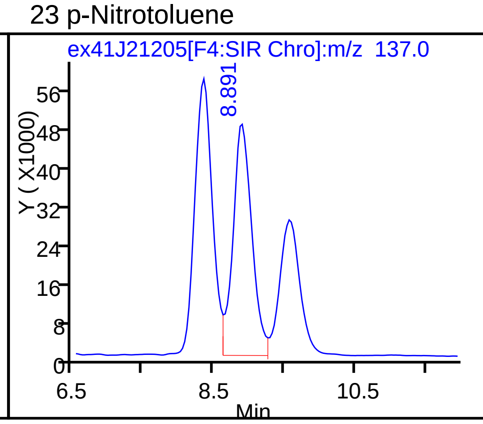
21 3,5-Dinitrotoluene



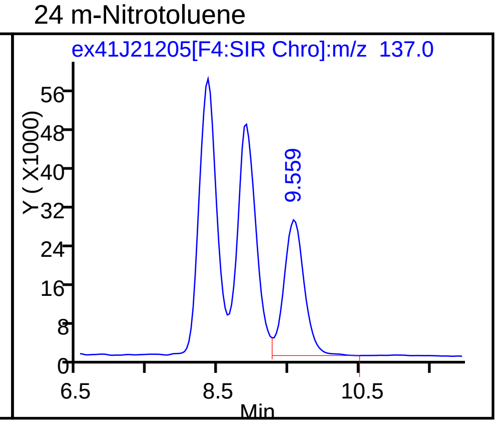
22 o-Nitrotoluene



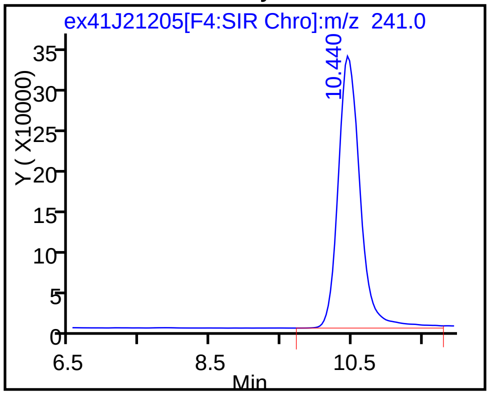
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver　　Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94192/83　　Calibration Date: 11/01/2011 11:00

Instrument ID: LC_LCMS4　　Calib Start Date: 10/21/2011 09:28

GC Column: IonPac　ID: 2.00(mm)　　Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21559.d　　Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.214		49.7	50.0	-0.6	20.0
RDX	Lin1		1.027		53.1	49.4	7.6	20.0
1,3,5-Trinitrobenzene	Lin1		1.183		50.9	50.1	1.7	20.0
Tetryl	Lin1		1.456		53.2	49.7	7.0	20.0
1,3-Dinitrobenzene	Lin1		1.134		51.3	50.7	1.2	20.0
Nitroglycerin	Lin1		6.969		52.4	50.0	4.8	30.0
2,4,6-Trinitrotoluene	Lin1		5.226		53.1	50.1	6.1	20.0
Nitrobenzene	Lin1		0.9631		47.4	50.0	-5.1	20.0
3,4-Dinitrotoluene	Lin1		2.517		54.5	50.0	9.0	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.412		58.6	49.4	18.7	20.0
2,3-Dinitrotoluene	Lin1		3.398		56.0	50.0	12.0	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.653		56.2	50.1	12.3	20.0
2,6-Dinitrotoluene	Lin1		2.647		49.8	50.1	-0.5	20.0
2,4-Dinitrotoluene	Lin1		1.260		49.6	50.2	-1.1	20.0
PETN	Lin1		2.199		55.0	49.9	10.2	30.0
3,5-Dinitrotoluene	Lin1		0.5871		45.8	50.0	-8.4	30.0
2-Nitrotoluene	Lin1		0.5265		48.9	49.6	-1.3	20.0
4-Nitrotoluene	Lin1		0.4809		50.6	49.8	1.7	20.0
3-Nitrotoluene	Lin1		0.2595		43.7	49.4	-11.5	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.48		47.3	50.0	-5.4	30.0
Nitrobenzene-d5	Lin1		1.299		50.6	50.0	1.2	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21559.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	01-Nov-2011 11:00:51	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	10/29/11EX4 CCV 50 ug/L 280-0002689-083		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94192	Lims Sample ID:	83
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	01-Nov-2011 11:42:25	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

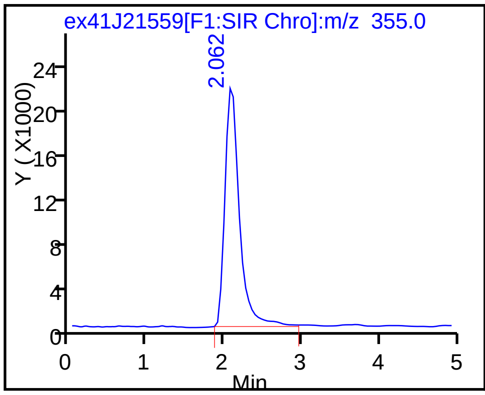
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	284209	49.7			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		641897	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2002719	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	406019	53.1			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	330860	50.9			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	404341	53.2			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1445785	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.034	0.000	1.008	321397	51.3			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	1947180	52.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.089	1461673	53.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.539	0.000	1.109	362968	50.6			
12 Nitrobenzene										
2	123.0	5.640	5.640	0.000	1.129	268828	47.4			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.791	2231416	54.5			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1234881	58.6			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.533	6.533	0.000	0.903	3010859	56.0			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.929	1466076	56.2			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.950	2348380	49.8			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4431277	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	1119862	49.6			
20 PETN										
4	61.8	7.798	7.798	0.000	1.000	1944726	55.0			
21 3,5-Dinitrotoluene										
3	182.0	7.899	7.899	0.000	1.092	520308	45.8			
22 o-Nitrotoluene										
4	137.0	8.284	8.284	0.000	1.000	462401	48.9			
23 p-Nitrotoluene										
4	137.0	8.861	8.861	0.000	1.000	424103	50.6			
24 m-Nitrotoluene										
4	137.0	9.529	9.529	0.000	1.000	227195	43.7			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.379	10.379	0.000	1.000	2927259	47.3			

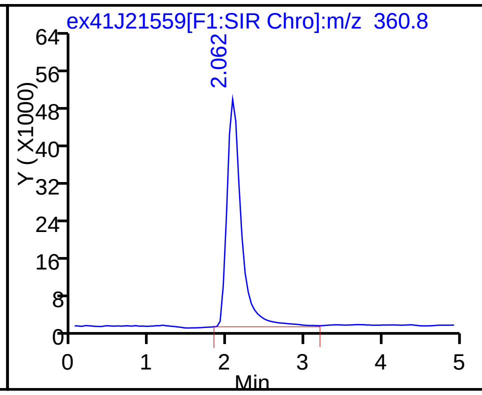
Report Date: 01-Nov-2011 11:42:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21559.d

Injection Date:	01-Nov-2011 11:00:51	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	83
Operator ID:		Injection Vol:	40.00 ul

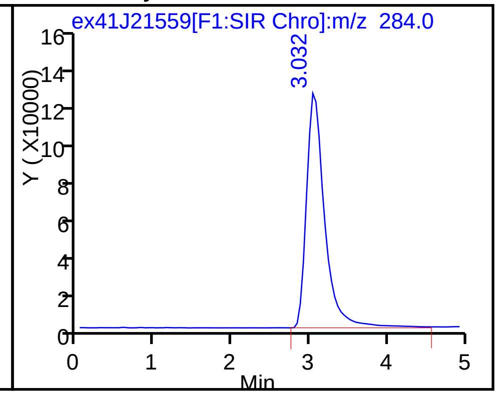
2 HMX



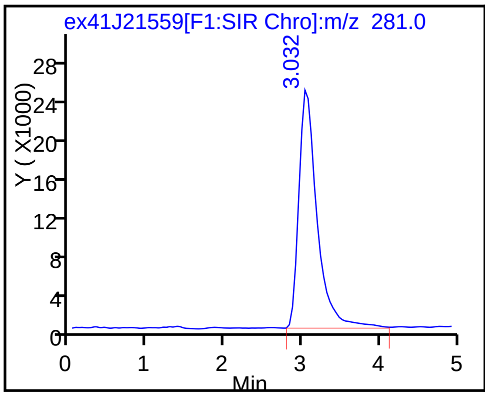
* 1 HMX-13C4



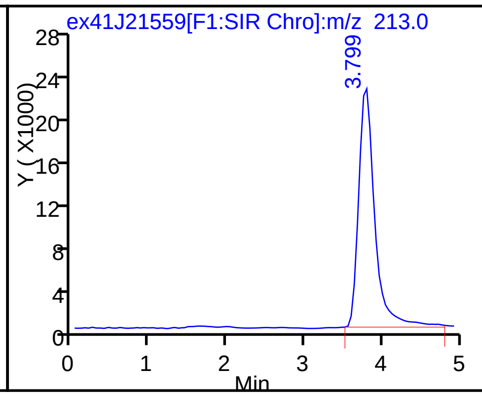
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



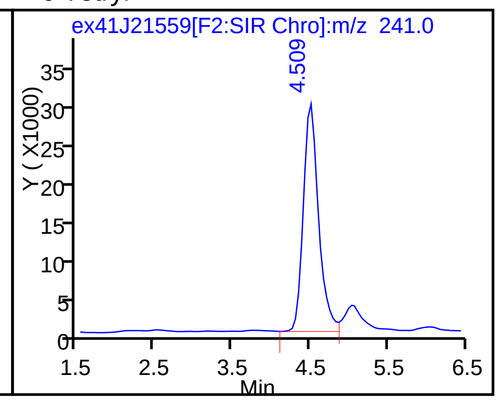
4 RDX



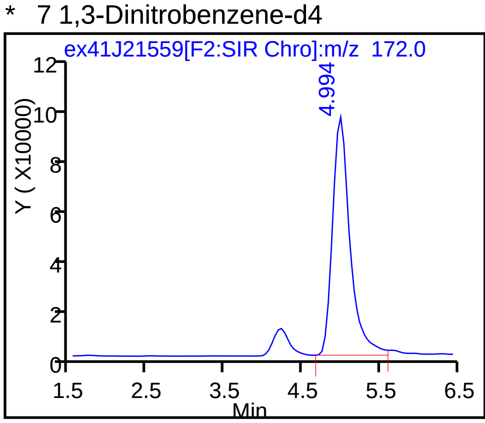
5 1,3,5-Trinitrobenzene



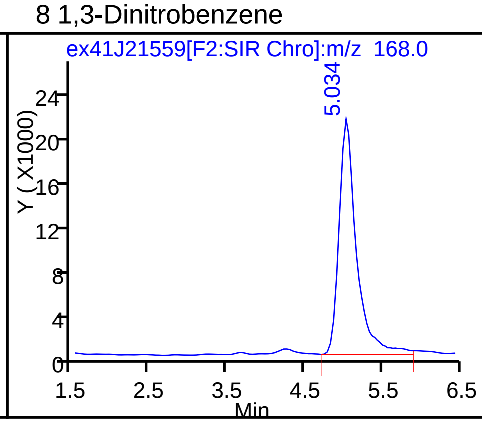
6 Tetryl



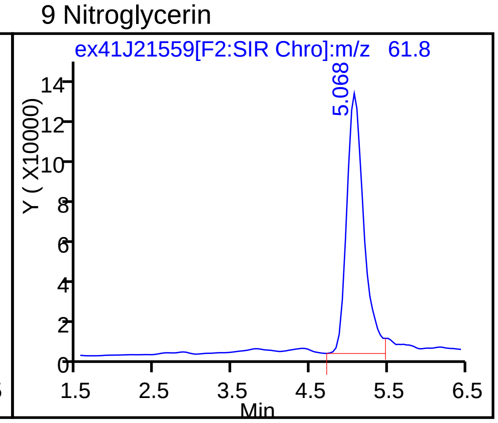
* 7 1,3-Dinitrobenzene-d4



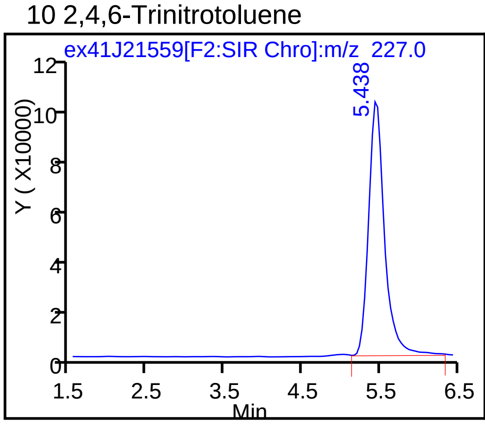
8 1,3-Dinitrobenzene



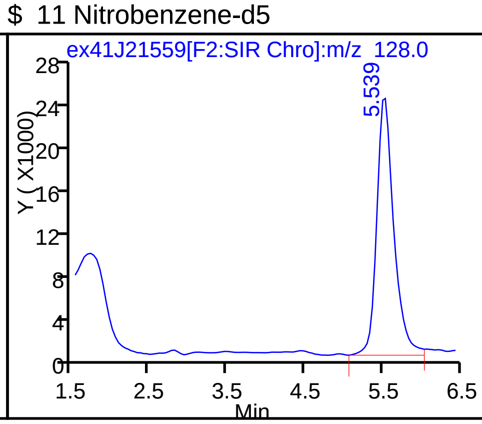
9 Nitroglycerin



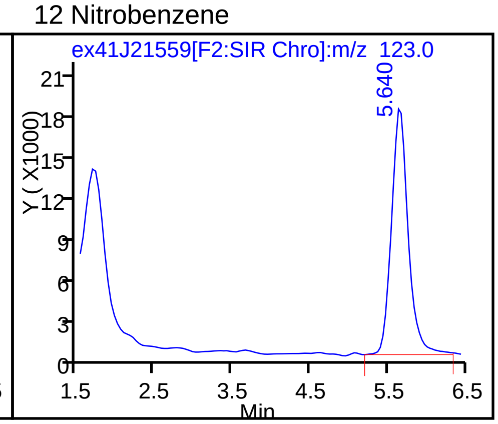
10 2,4,6-Trinitrotoluene



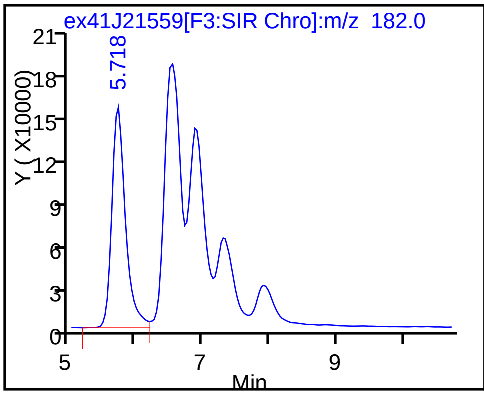
$ 11 Nitrobenzene-d5



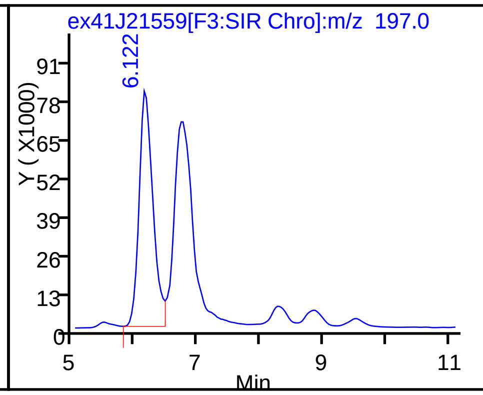
12 Nitrobenzene



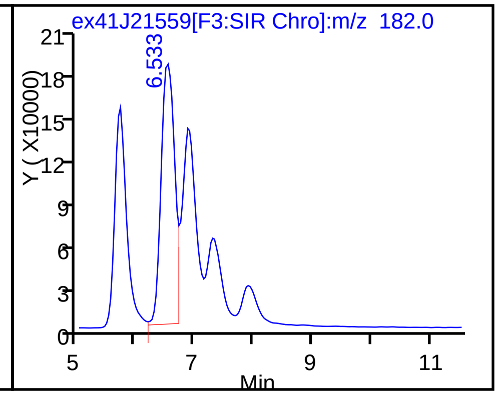
13 3,4-Dinitrotoluene



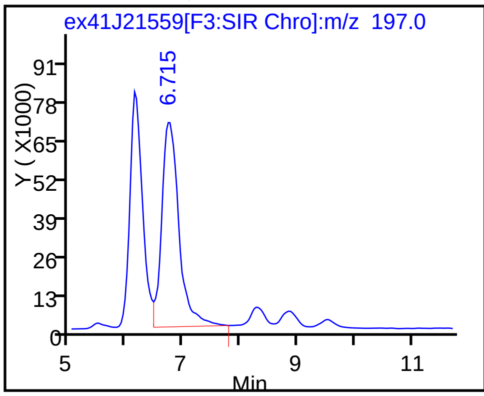
14 4-Amino-2,6-dinitrotoluene



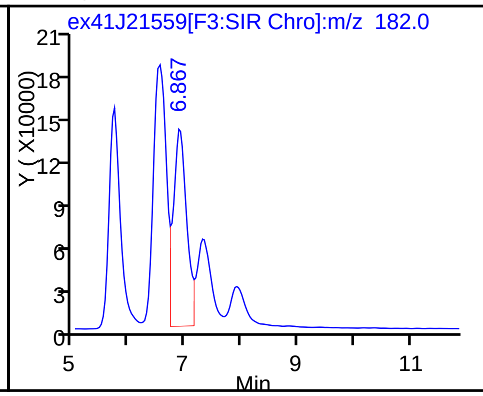
15 2,3-Dinitrotoluene



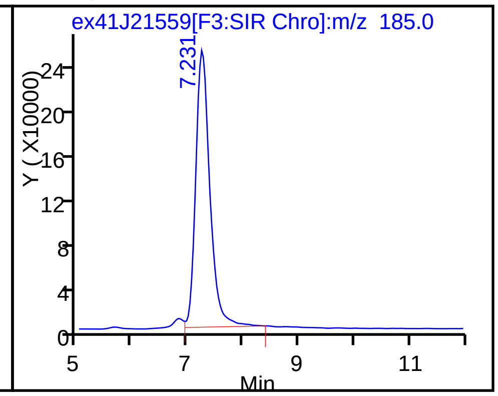
16 2-Amino-4,6-dinitrotoluene



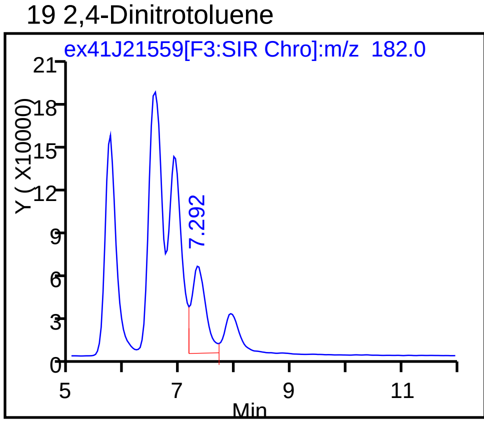
17 2,6-Dinitrotoluene



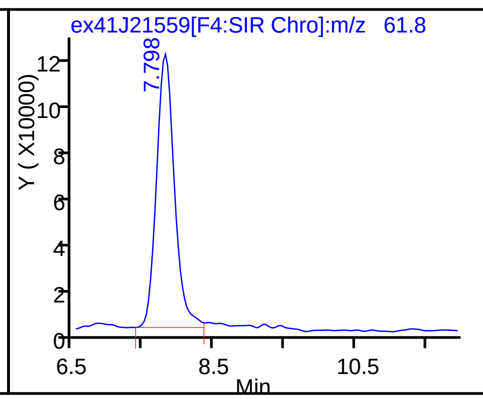
* 18 2,4-dinitrotoluene-d3



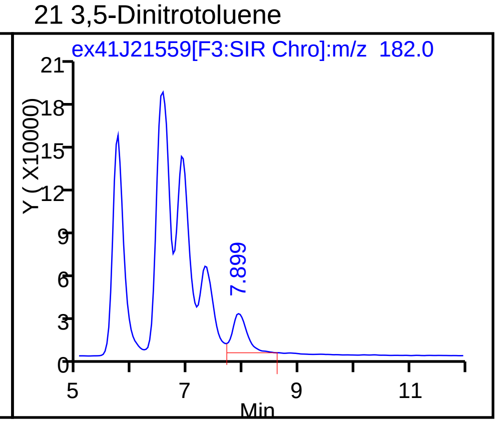
19 2,4-Dinitrotoluene



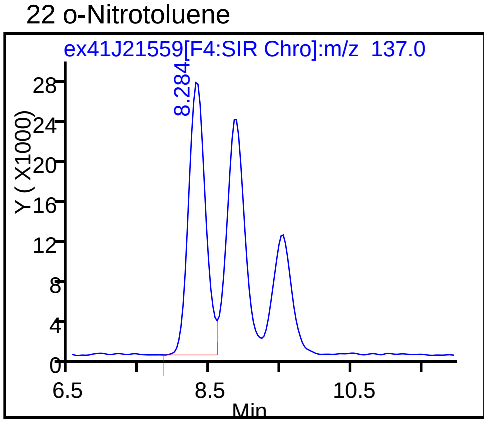
20 PETN



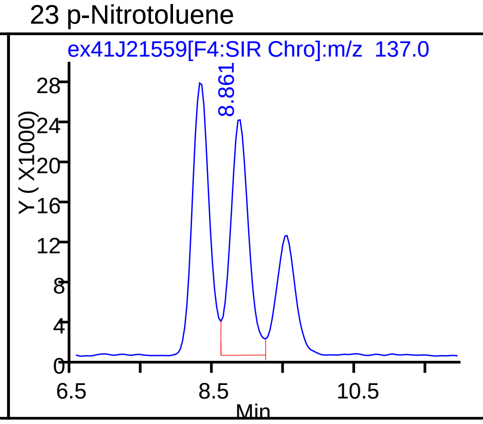
21 3,5-Dinitrotoluene



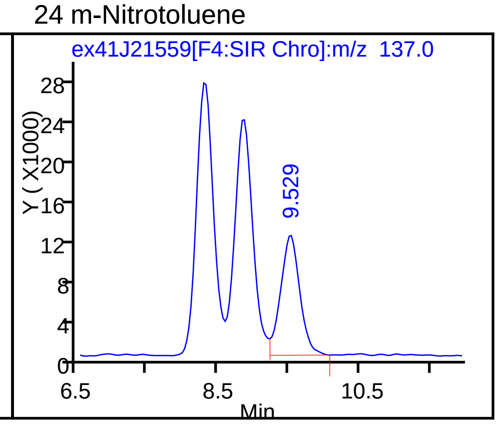
22 o-Nitrotoluene



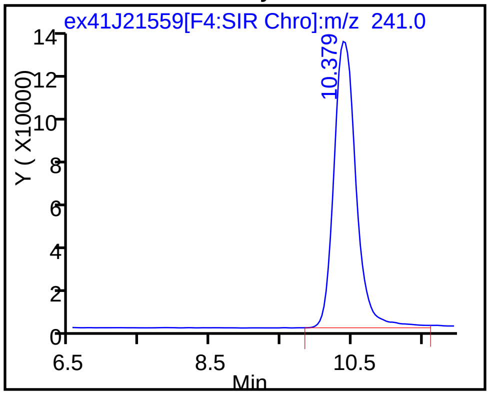
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94192/92 Calibration Date: 11/01/2011 13:05

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21568.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.259		101	100	0.7	20.0
RDX	Lin1		1.018		106	98.7	6.9	20.0
1,3,5-Trinitrobenzene	Lin1		1.144		96.4	100	-3.7	20.0
Tetryl	Lin1		1.541		111	99.4	11.2	20.0
1,3-Dinitrobenzene	Lin1		1.278		115	101	13.6	20.0
Nitroglycerin	Lin1		6.969		104	100	3.7	30.0
2,4,6-Trinitrotoluene	Lin1		5.306		107	100	7.0	20.0
Nitrobenzene	Lin1		0.9825		96.6	99.9	-3.3	20.0
3,4-Dinitrotoluene	Lin1		2.408		105	100	4.5	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.333		111	98.7	12.1	20.0
2,3-Dinitrotoluene	Lin1		3.215		106	100	6.2	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.702		116	100	16.1	20.0
2,6-Dinitrotoluene	Lin1		2.658		100	100	-0.1	20.0
2,4-Dinitrotoluene	Lin1		1.284		101	100	0.6	20.0
PETN	Lin1		2.318		118	99.8	18.4	30.0
3,5-Dinitrotoluene	Lin1		0.6272		96.5	100	-3.5	30.0
2-Nitrotoluene	Lin1		0.5475		102	99.1	2.9	20.0
4-Nitrotoluene	Lin1		0.4772		100	99.5	0.6	20.0
3-Nitrotoluene	Lin1		0.2996		101	98.8	2.3	20.0
2,4,6-Trinitro-3-xylene	Lin1		11.36		103	100	2.6	30.0
Nitrobenzene-d5	Lin1		1.243		97.4	100	-2.6	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21568.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	01-Nov-2011 13:05:23	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX5 CCV 100 ug/L 280-0002689-092		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	94192	Lims Sample ID:	92
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:21	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

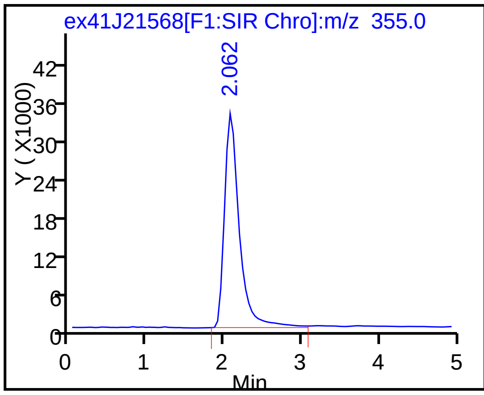
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	453594	100.7			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		501983	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1751377	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	703944	105.5			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	530928	96.4			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	709933	110.5			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1199187	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	600675	115.2			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.023	3230383	103.7			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.439	0.000	1.098	2461617	107.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	576383	97.4			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	454936	96.6			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.789	3318987	104.5			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.850	1812315	110.6			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.902	4428978	106.2			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.932	2348044	116.2			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	3666178	100.0			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		3444715	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.013	1773887	100.9			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3187223	118.2			
21 3,5-Dinitrotoluene										
3	182.0	7.899	7.899	0.000	1.097	864233	96.5			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	747592	102.0			
23 p-Nitrotoluene										
4	137.0	8.831	8.831	0.000	1.000	654196	100.1			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	407793	101.1			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.379	10.379	0.000	1.000	5267151	102.6			

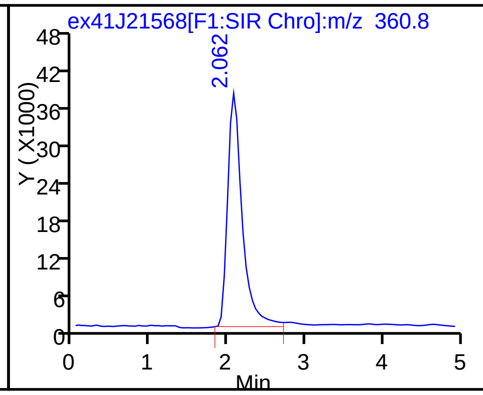
Report Date: 02-Nov-2011 06:41:22 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21568.d		
Injection Date:	01-Nov-2011 13:05:23	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	92
Operator ID:		Injection Vol:	40.00 ul

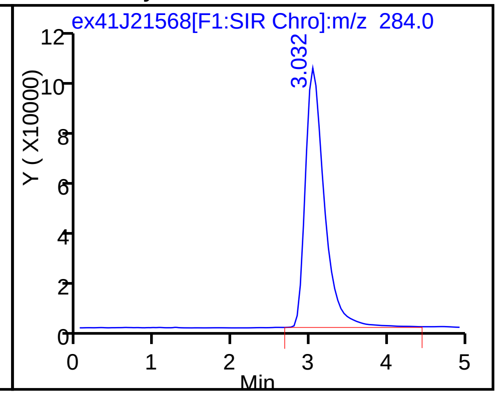
2 HMX



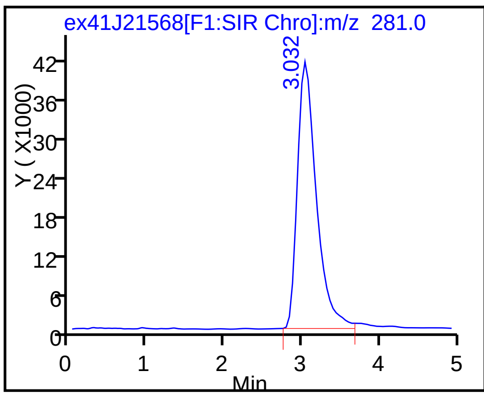
* 1 HMX-13C4



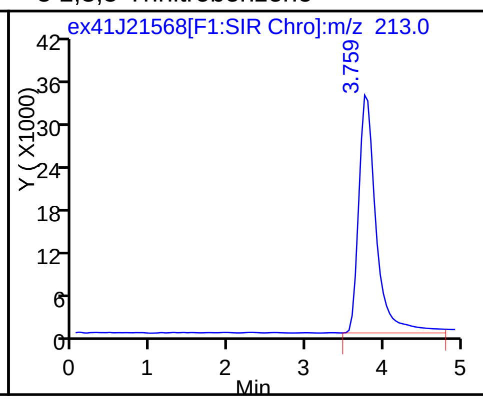
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



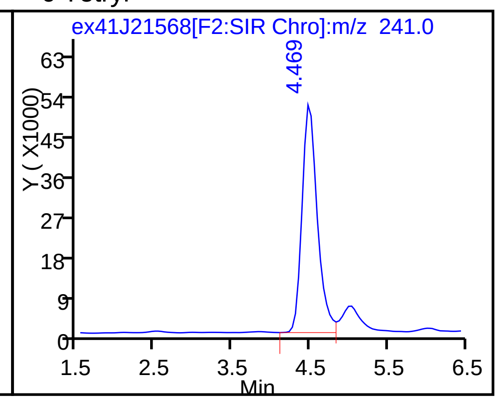
4 RDX



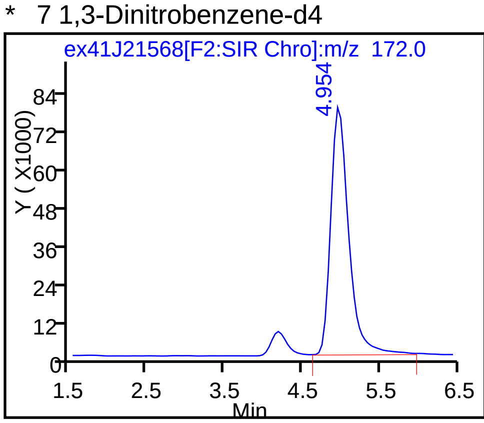
5 1,3,5-Trinitrobenzene



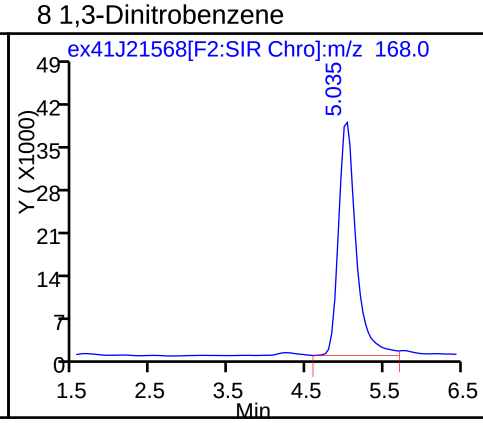
6 Tetryl



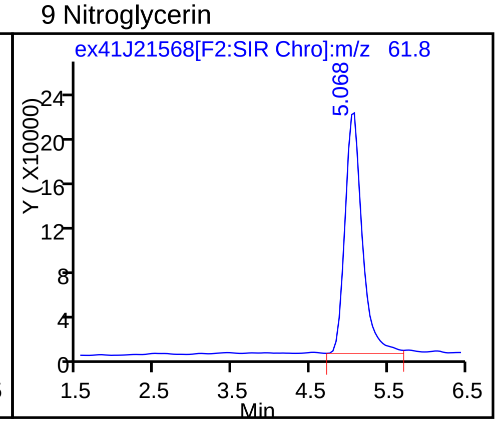
* 7 1,3-Dinitrobenzene-d4



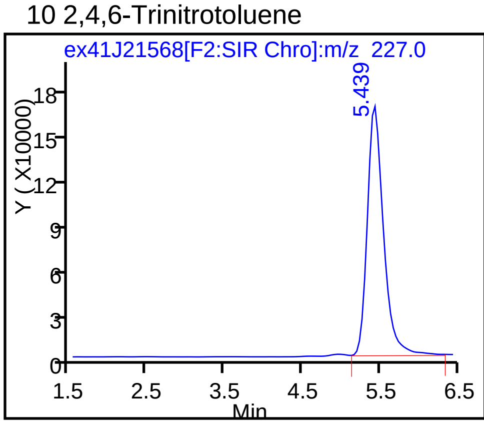
8 1,3-Dinitrobenzene



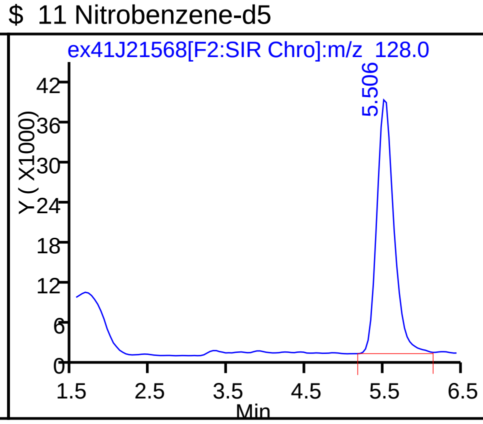
9 Nitroglycerin



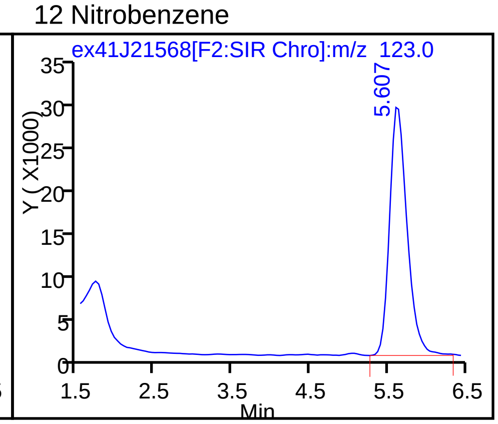
10 2,4,6-Trinitrotoluene



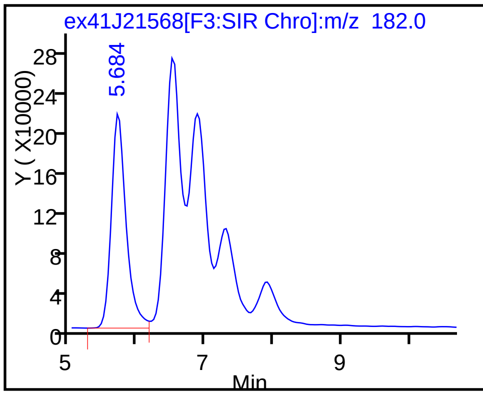
$ 11 Nitrobenzene-d5



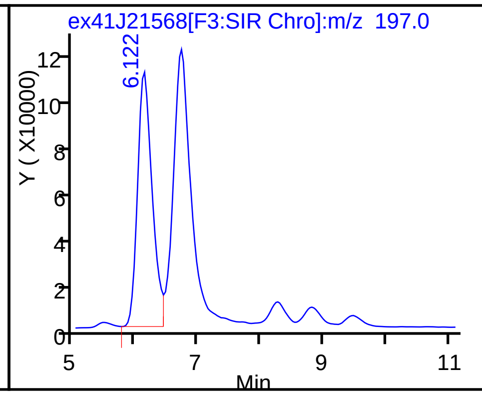
12 Nitrobenzene



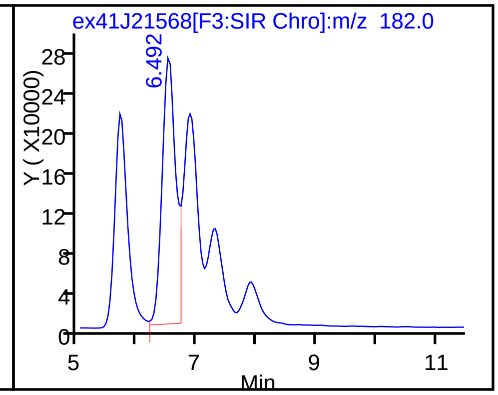
13 3,4-Dinitrotoluene



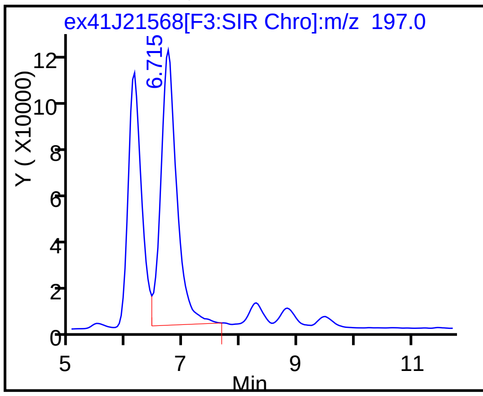
14 4-Amino-2,6-dinitrotoluene



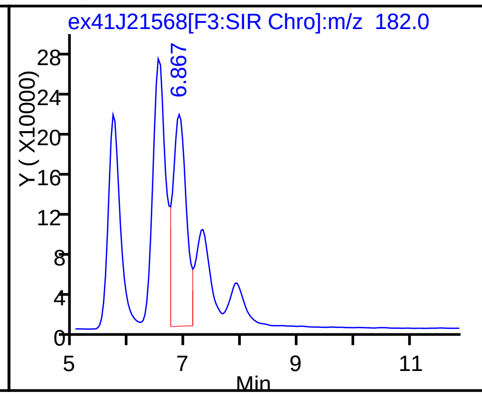
15 2,3-Dinitrotoluene



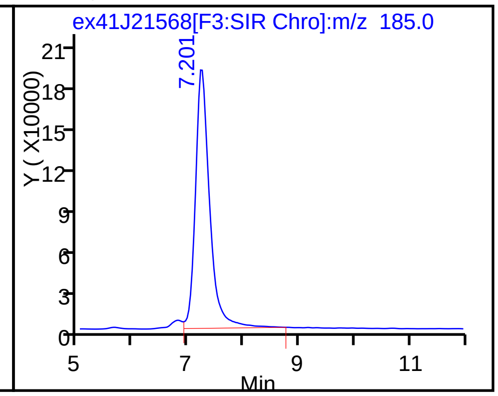
16 2-Amino-4,6-dinitrotoluene



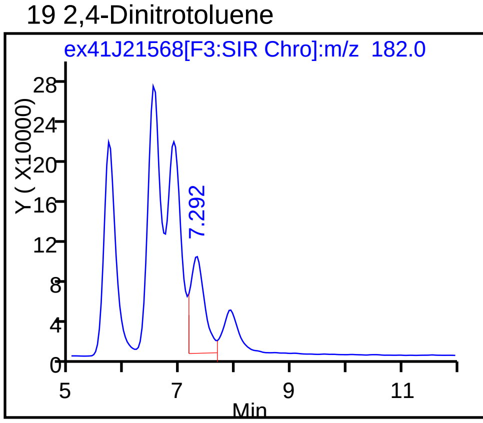
17 2,6-Dinitrotoluene



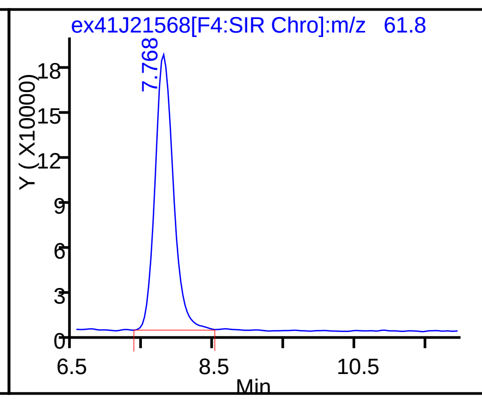
* 18 2,4-dinitrotoluene-d3



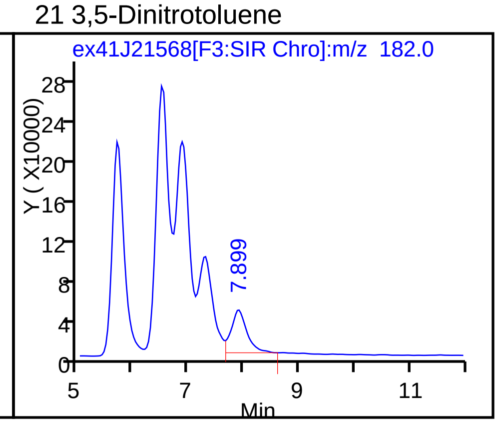
19 2,4-Dinitrotoluene



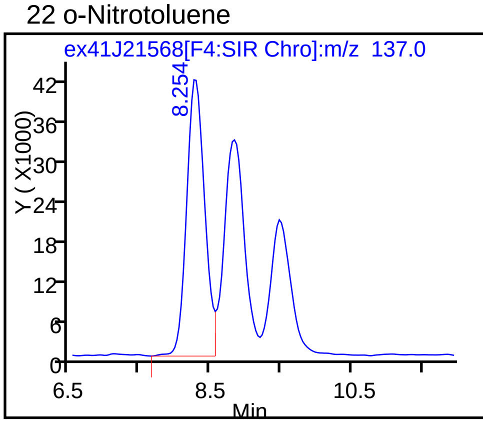
20 PETN



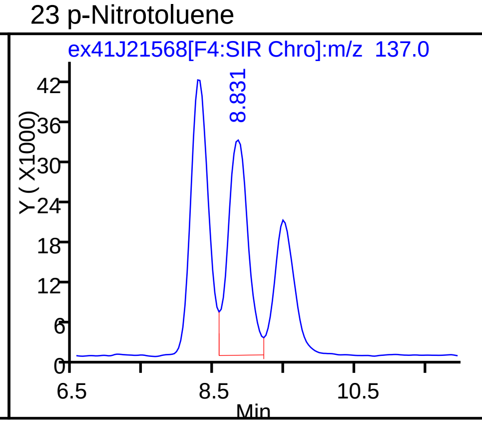
21 3,5-Dinitrotoluene



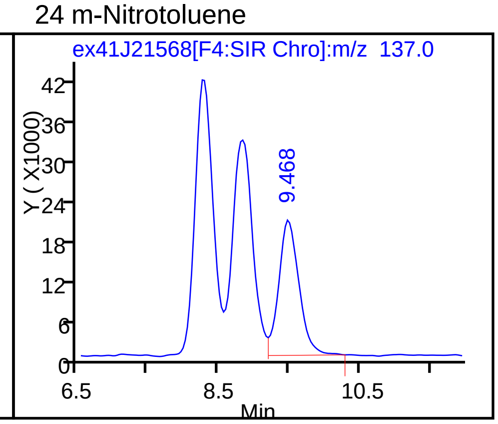
22 o-Nitrotoluene



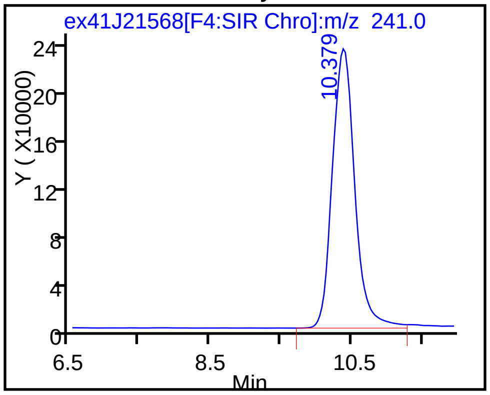
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver　　Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94192/101　　Calibration Date: 11/01/2011 15:08

Instrument ID: LC_LCMS4　　Calib Start Date: 10/21/2011 09:28

GC Column: IonPac　　ID: 2.00(mm)　　Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21577.d　　Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.136		48.0	50.0	-4.0	20.0
RDX	Lin1		1.021		52.8	49.4	7.0	20.0
1,3,5-Trinitrobenzene	Lin1		1.119		48.3	50.1	-3.5	20.0
Tetryl	Lin1		1.373		50.3	49.7	1.2	20.0
1,3-Dinitrobenzene	Lin1		1.128		51.1	50.7	0.8	20.0
Nitroglycerin	Lin1		6.891		51.9	50.0	3.8	30.0
2,4,6-Trinitrotoluene	Lin1		4.949		50.3	50.1	0.5	20.0
Nitrobenzene	Lin1		0.9523		46.9	50.0	-6.1	20.0
3,4-Dinitrotoluene	Lin1		2.022		43.7	50.0	-12.6	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.111		46.2	49.4	-6.4	20.0
2,3-Dinitrotoluene	Lin1		2.715		44.7	50.0	-10.6	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.516		51.6	50.1	3.1	20.0
2,6-Dinitrotoluene	Lin1		2.411		45.4	50.1	-9.3	20.0
2,4-Dinitrotoluene	Lin1		1.351		53.2	50.2	6.1	20.0
PETN	Lin1		2.155		53.9	49.9	8.0	30.0
3,5-Dinitrotoluene	Lin1		0.6890		53.6	50.0	7.2	30.0
2-Nitrotoluene	Lin1		0.5048		46.9	49.6	-5.3	20.0
4-Nitrotoluene	Lin1		0.4526		47.7	49.8	-4.1	20.0
3-Nitrotoluene	Lin1		0.2806		47.3	49.4	-4.3	20.0
2,4,6-Trinitro-3-xylene	Lin1		13.83		62.5	50.0	25.0	30.0
Nitrobenzene-d5	Lin1		1.221		47.6	50.0	-4.8	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21577.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	01-Nov-2011 15:08:49	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX4 CCV 50 ug/L 280-0002689-101		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94192	Lims Sample ID:	101
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:28	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	216649	48.0			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		507034	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1639821	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	330601	52.8			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	270124	48.3			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.895	329038	50.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1247639	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.034	0.000	1.008	275863	51.1			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	1661491	51.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.089	1194534	50.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	294588	47.6			
12 Nitrobenzene										
2	123.0	5.640	5.640	0.000	1.129	229388	46.9			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.786	1741365	43.7			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	943915	46.2			

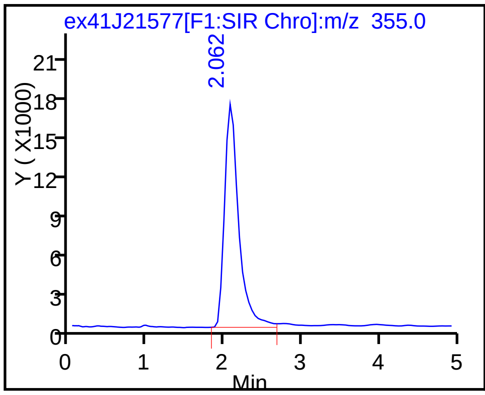
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.898	2336848	44.7			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.929	1306058	51.6			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.950	2077405	45.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4303881	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	1166382	53.2			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	1851624	53.9			
21 3,5-Dinitrotoluene										
3	182.0	7.899	7.899	0.000	1.092	593079	53.6			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	430623	46.9			
23 p-Nitrotoluene										
4	137.0	8.830	8.830	0.000	1.000	387632	47.7			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	238669	47.3			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.349	10.349	0.000	1.000	3334313	62.5			

Report Date: 02-Nov-2011 06:41:29 Chrom Revision: 1.2 13-Jul-2011 10:43:06

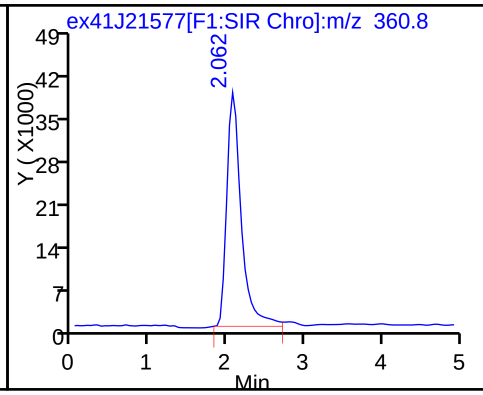
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21577.d

Injection Date:	01-Nov-2011 15:08:49	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	101
Operator ID:		Injection Vol:	40.00 ul

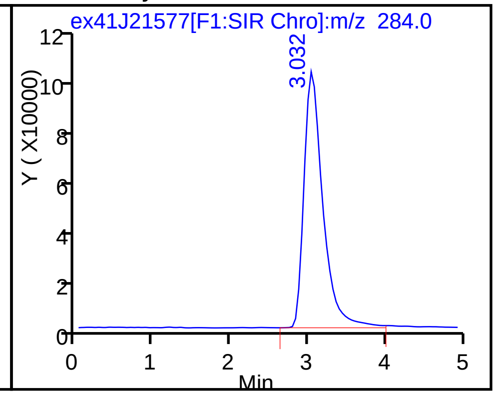
2 HMX



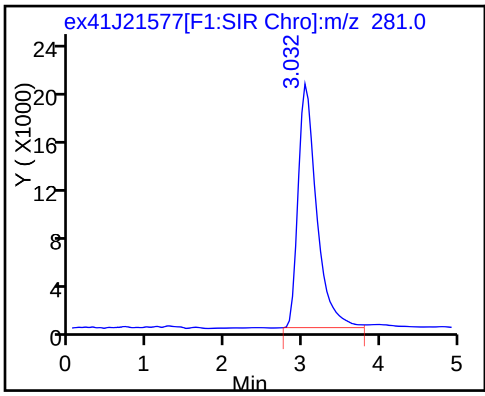
* 1 HMX-13C4



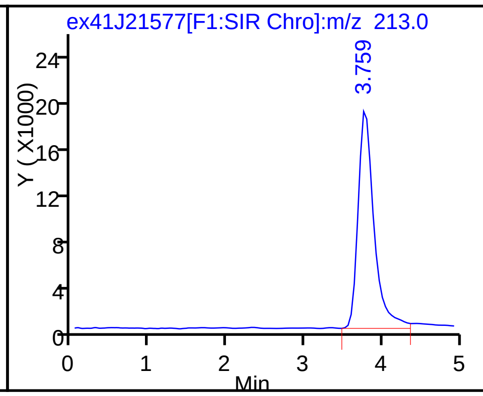
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



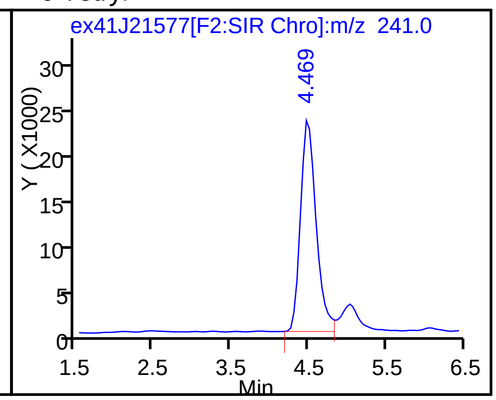
4 RDX



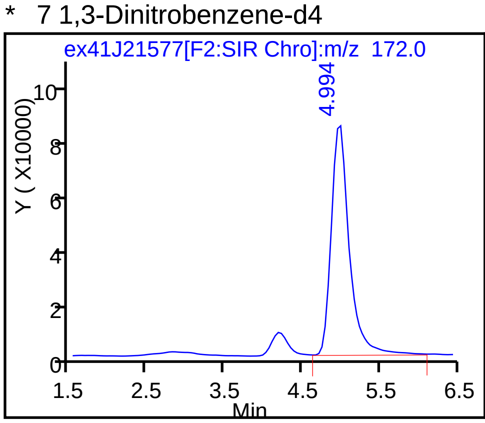
5 1,3,5-Trinitrobenzene



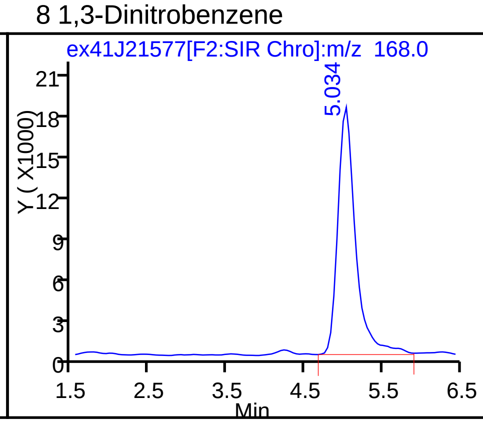
6 Tetryl



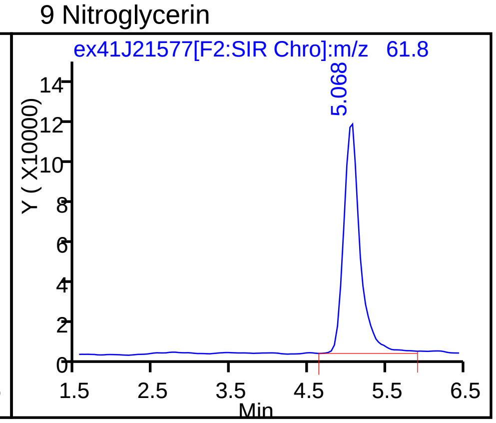
* 7 1,3-Dinitrobenzene-d4



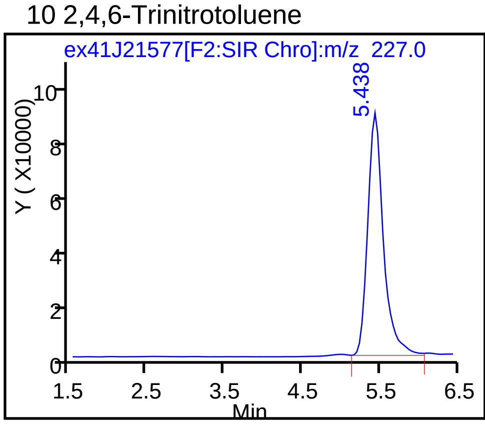
8 1,3-Dinitrobenzene



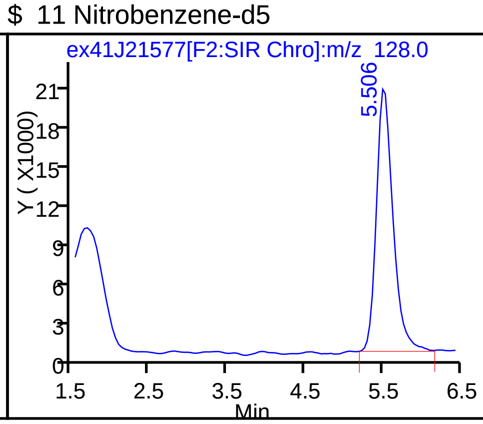
9 Nitroglycerin



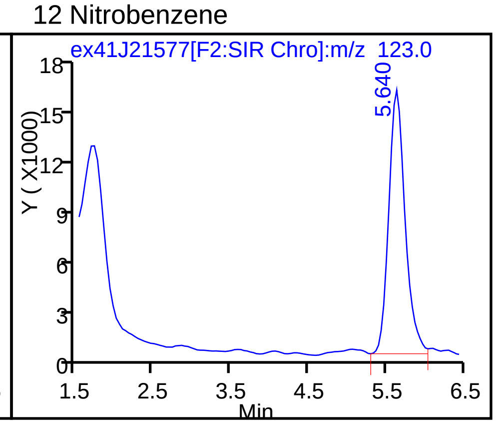
10 2,4,6-Trinitrotoluene



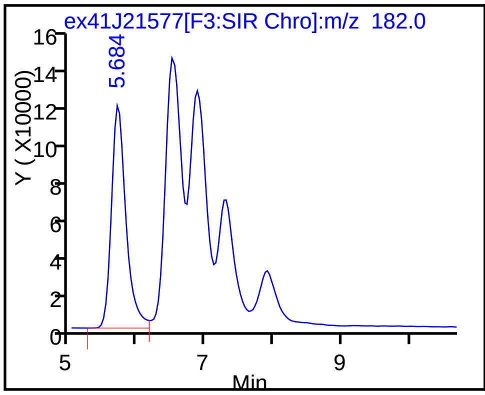
$ 11 Nitrobenzene-d5



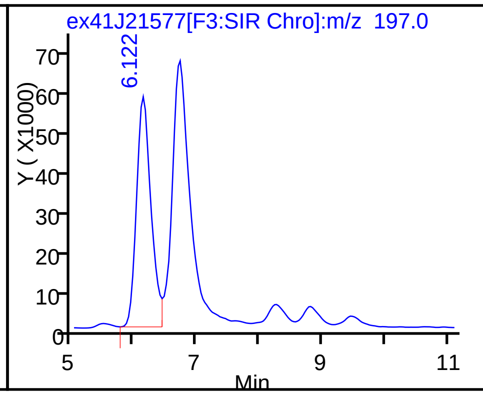
12 Nitrobenzene



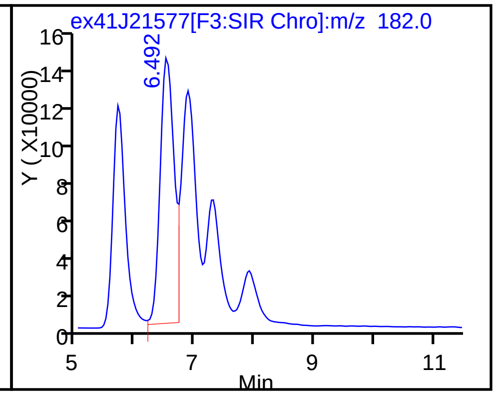
13 3,4-Dinitrotoluene



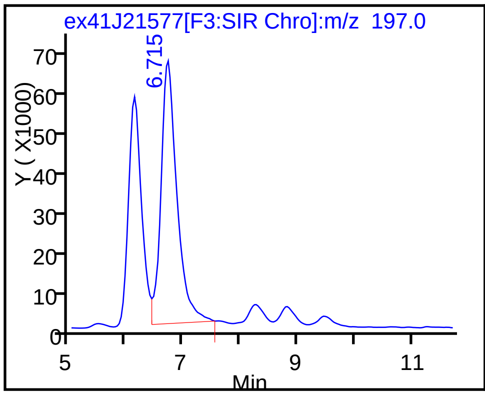
14 4-Amino-2,6-dinitrotoluene



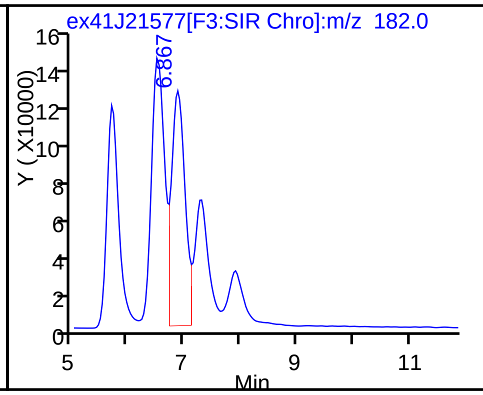
15 2,3-Dinitrotoluene



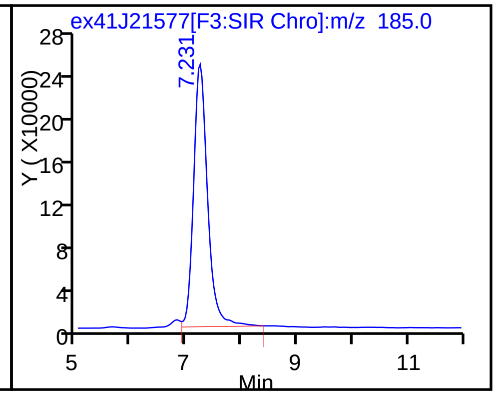
16 2-Amino-4,6-dinitrotoluene



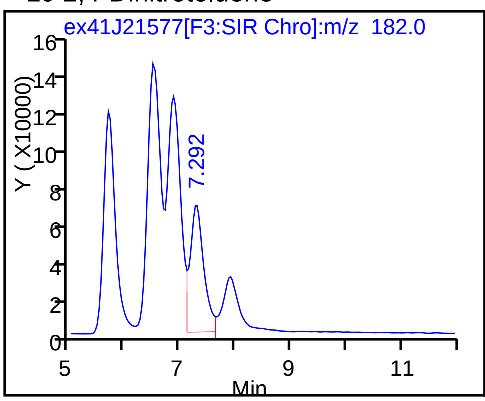
17 2,6-Dinitrotoluene



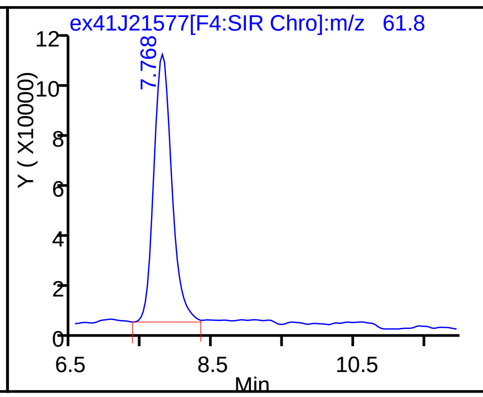
* 18 2,4-dinitrotoluene-d3



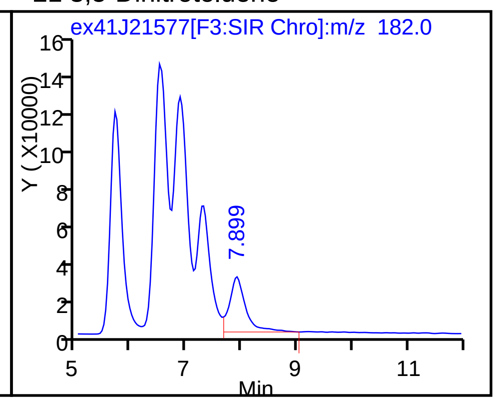
19 2,4-Dinitrotoluene



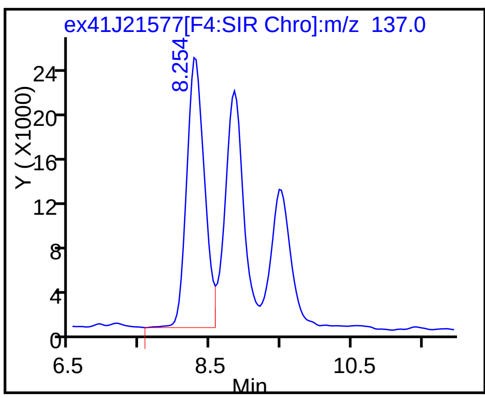
20 PETN



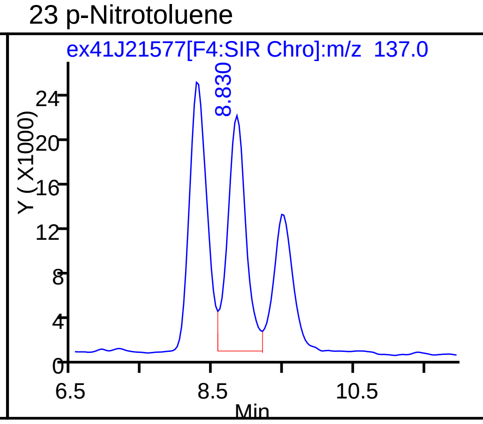
21 3,5-Dinitrotoluene



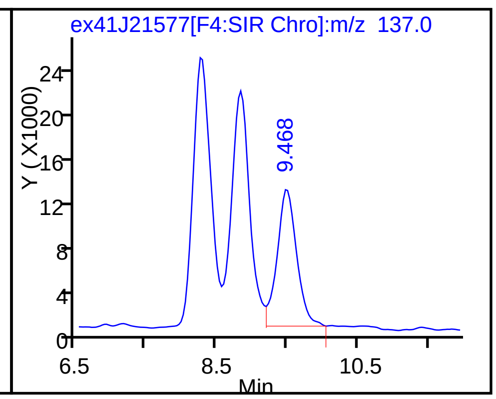
22 o-Nitrotoluene



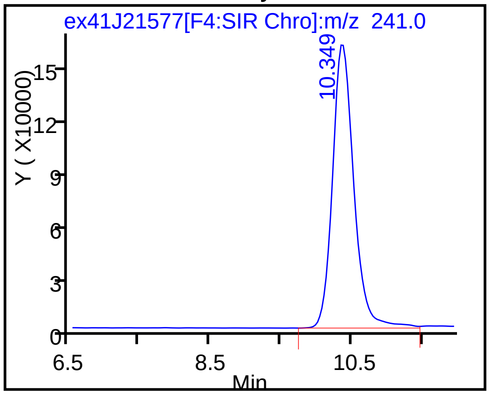
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94192/110   Calibration Date: 11/01/2011 17:11

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21586.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.374		106	100	5.8	20.0
RDX	Lin1		1.053		109	98.7	10.6	20.0
1,3,5-Trinitrobenzene	Lin1		1.177		99.1	100	-1.0	20.0
Tetryl	Lin1		1.493		107	99.4	7.7	20.0
1,3-Dinitrobenzene	Lin1		1.214		109	101	7.9	20.0
Nitroglycerin	Lin1		6.869		102	100	2.2	30.0
2,4,6-Trinitrotoluene	Lin1		5.199		105	100	4.9	20.0
Nitrobenzene	Lin1		1.008		99.1	99.9	-0.8	20.0
3,4-Dinitrotoluene	Lin1		2.334		101	100	1.3	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.240		103	98.7	4.3	20.0
2,3-Dinitrotoluene	Lin1		3.022		99.8	100	-0.2	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.849		126	100	26.1*	20.0
2,6-Dinitrotoluene	Lin1		2.681		101	100	0.8	20.0
2,4-Dinitrotoluene	Lin1		1.260		99.1	100	-1.2	20.0
PETN	Lin1		2.325		119	99.8	18.8	30.0
3,5-Dinitrotoluene	Lin1		0.5913		91.0	100	-9.0	30.0
2-Nitrotoluene	Lin1		0.5362		99.9	99.1	0.8	20.0
4-Nitrotoluene	Lin1		0.4898		103	99.5	3.3	20.0
3-Nitrotoluene	Lin1		0.3377		114	98.8	15.3	20.0
2,4,6-Trinitro-3-xylene	Lin1		13.49		122	100	21.8	30.0
Nitrobenzene-d5	Lin1		1.268		99.4	100	-0.6	20.0

FORM VII 8321B

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94193/110   Calibration Date: 11/01/2011 17:11

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21586.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.374		106	100	5.8	20.0
RDX	Lin1		1.053		109	98.7	10.6	20.0
1,3,5-Trinitrobenzene	Lin1		1.177		99.1	100	-1.0	20.0
Tetryl	Lin1		1.493		107	99.4	7.7	20.0
1,3-Dinitrobenzene	Lin1		1.214		109	101	7.9	20.0
Nitroglycerin	Lin1		6.869		102	100	2.2	30.0
2,4,6-Trinitrotoluene	Lin1		5.199		105	100	4.9	20.0
Nitrobenzene	Lin1		1.008		99.1	99.9	-0.8	20.0
3,4-Dinitrotoluene	Lin1		2.334		101	100	1.3	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.240		103	98.7	4.3	20.0
2,3-Dinitrotoluene	Lin1		3.022		99.8	100	-0.2	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.849		126	100	26.1*	20.0
2,6-Dinitrotoluene	Lin1		2.681		101	100	0.8	20.0
2,4-Dinitrotoluene	Lin1		1.260		99.1	100	-1.2	20.0
PETN	Lin1		2.325		119	99.8	18.8	30.0
3,5-Dinitrotoluene	Lin1		0.5913		91.0	100	-9.0	30.0
2-Nitrotoluene	Lin1		0.5362		99.9	99.1	0.8	20.0
4-Nitrotoluene	Lin1		0.4898		103	99.5	3.3	20.0
3-Nitrotoluene	Lin1		0.3377		114	98.8	15.3	20.0
2,4,6-Trinitro-3-xylene	Lin1		13.49		122	100	21.8	30.0
Nitrobenzene-d5	Lin1		1.268		99.4	100	-0.6	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21586.d
Lims ID: CCV Client ID:
Inject. Date: 01-Nov-2011 17:11:43 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 11/01/11EX5 CCV 100 ug/L 280-0002689-110
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 6
Lims Batch ID: 94192 Lims Sample ID: 110
Sublist: chrom-8321exp4-25*sub3
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m
Last Update: 02-Nov-2011 06:41:38 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	386966	105.8			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		407574	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1506077	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	626348	109.2			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	504024	99.1			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	634770	107.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1106629	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	526617	109.4			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	2937927	102.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.439	0.000	1.098	2226081	105.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	542625	99.4			
12 Nitrobenzene										
2	123.0	5.641	5.641	0.000	1.139	430558	99.1			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.786	3334771	101.3			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1747537	102.9			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.898	4314889	99.8			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.924	2643429	126.2			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.950	3832857	100.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3570500	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.262	0.000	1.004	1805590	99.1			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3314629	118.6			
21 3,5-Dinitrotoluene										
3	182.0	7.899	7.899	0.000	1.092	844502	91.0			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	758949	99.9			
23 p-Nitrotoluene										
4	137.0	8.830	8.830	0.000	1.000	695965	102.8			
24 m-Nitrotoluene										
4	137.0	9.499	9.499	0.000	1.000	476442	113.9			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.379	10.379	0.000	1.000	5772162	121.8			

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21586.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	01-Nov-2011 17:11:43	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX5 CCV 100 ug/L 280-0002689-110		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	94193	Lims Sample ID:	110
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:38	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

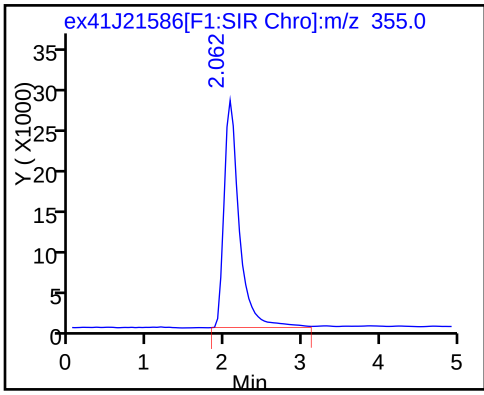
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	386966	105.8			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		407574	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1506077	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	626348	109.2			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	504024	99.1			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	634770	107.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1106629	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	526617	109.4			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	2937927	102.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.439	0.000	1.098	2226081	105.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	542625	99.4			
12 Nitrobenzene										
2	123.0	5.641	5.641	0.000	1.139	430558	99.1			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.786	3334771	101.3			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1747537	102.9			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.898	4314889	99.8			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.924	2643429	126.2			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.950	3832857	100.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3570500	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.262	0.000	1.004	1805590	99.1			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3314629	118.6			
21 3,5-Dinitrotoluene										
3	182.0	7.899	7.899	0.000	1.092	844502	91.0			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	758949	99.9			
23 p-Nitrotoluene										
4	137.0	8.830	8.830	0.000	1.000	695965	102.8			
24 m-Nitrotoluene										
4	137.0	9.499	9.499	0.000	1.000	476442	113.9			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.379	10.379	0.000	1.000	5772162	121.8			

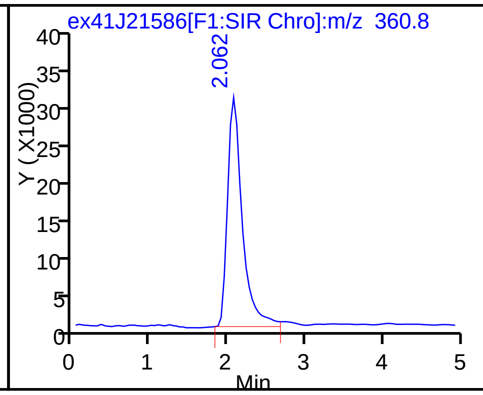
Report Date: 02-Nov-2011 06:41:38 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21586.d

Injection Date:	01-Nov-2011 17:11:43	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	110
Operator ID:		Injection Vol:	40.00 ul

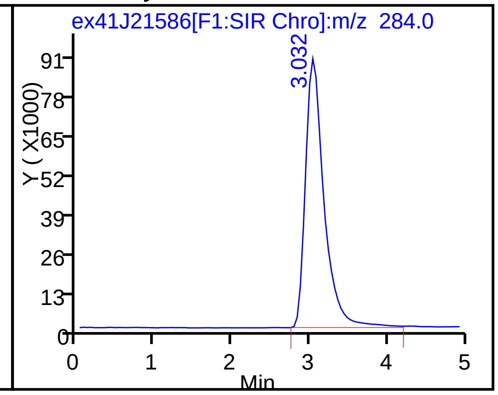
2 HMX



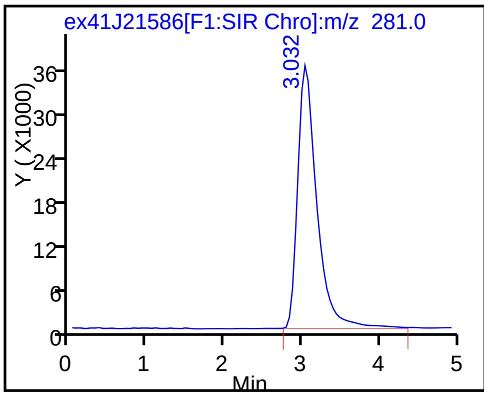
* 1 HMX-13C4



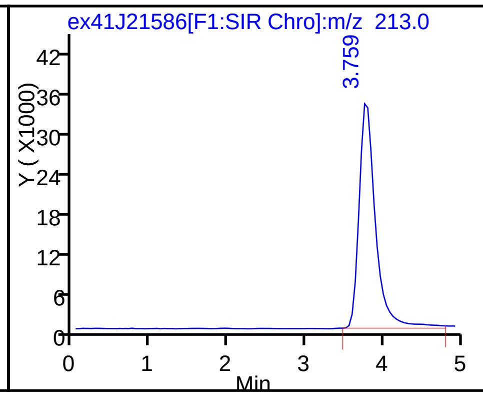
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



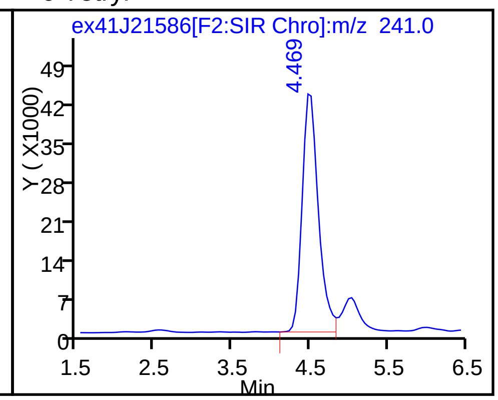
4 RDX



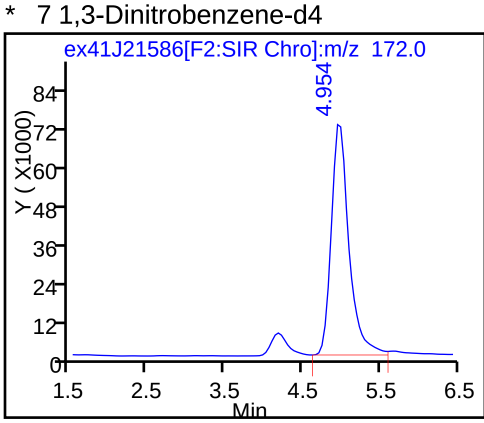
5 1,3,5-Trinitrobenzene



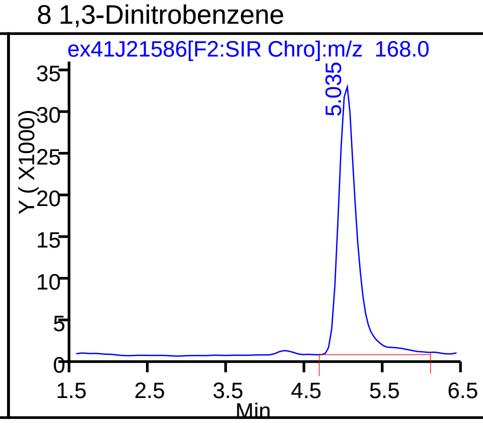
6 Tetryl



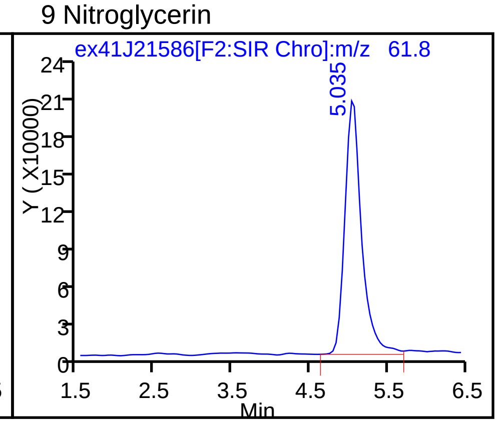
* 7 1,3-Dinitrobenzene-d4



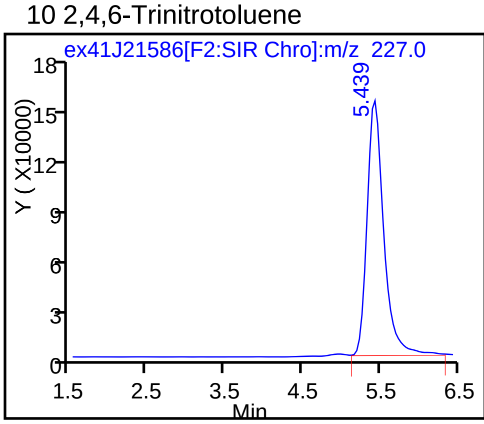
8 1,3-Dinitrobenzene



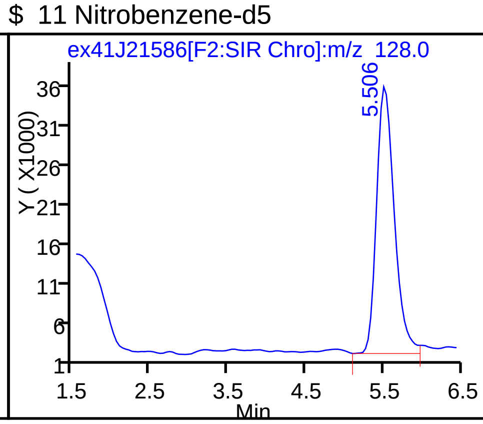
9 Nitroglycerin



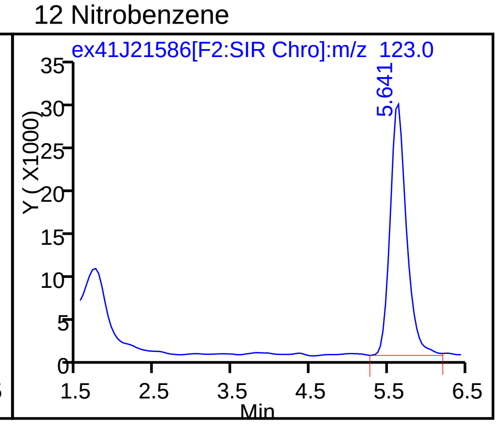
10 2,4,6-Trinitrotoluene



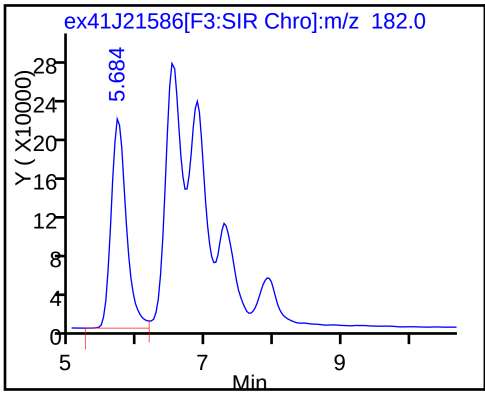
$ 11 Nitrobenzene-d5



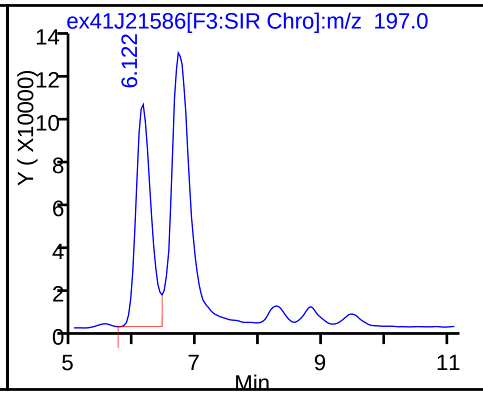
12 Nitrobenzene



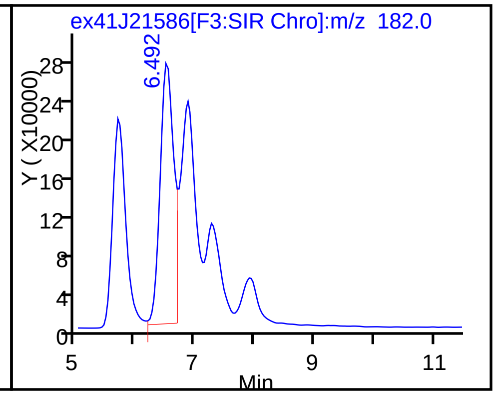
13 3,4-Dinitrotoluene



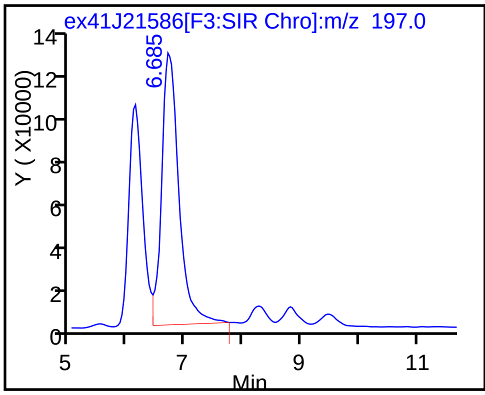
14 4-Amino-2,6-dinitrotoluene



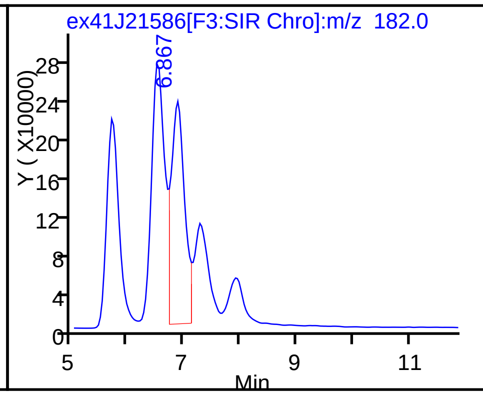
15 2,3-Dinitrotoluene



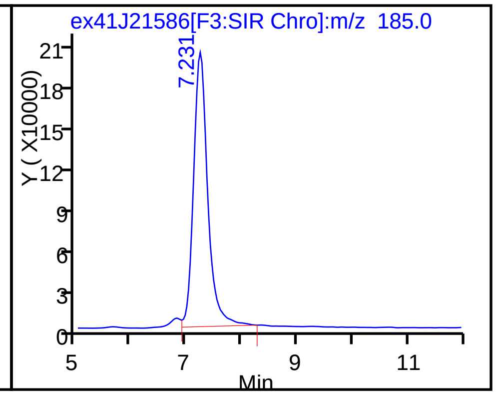
16 2-Amino-4,6-dinitrotoluene



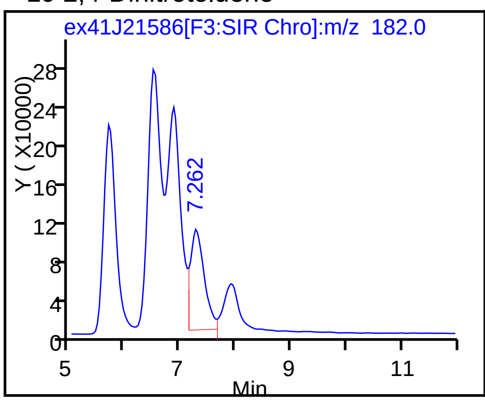
17 2,6-Dinitrotoluene



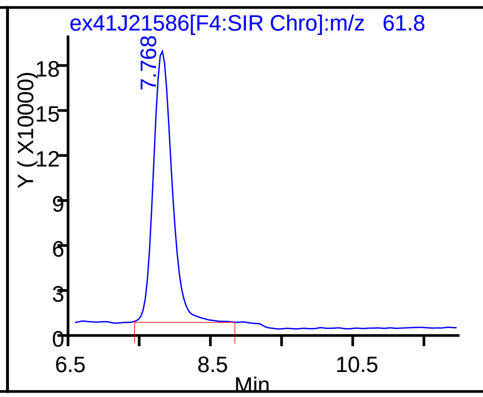
* 18 2,4-dinitrotoluene-d3



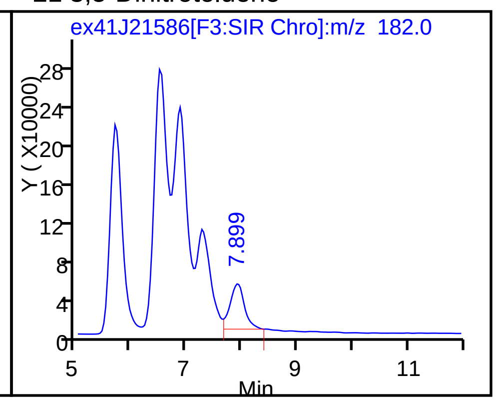
19 2,4-Dinitrotoluene



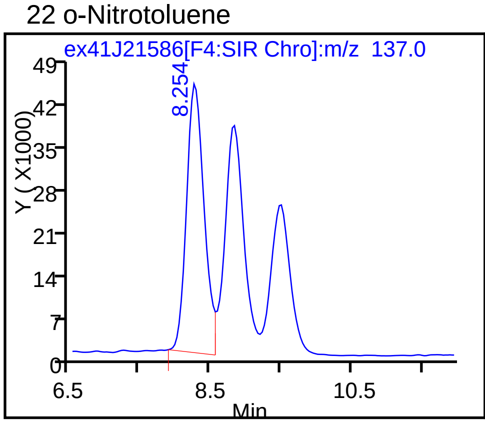
20 PETN



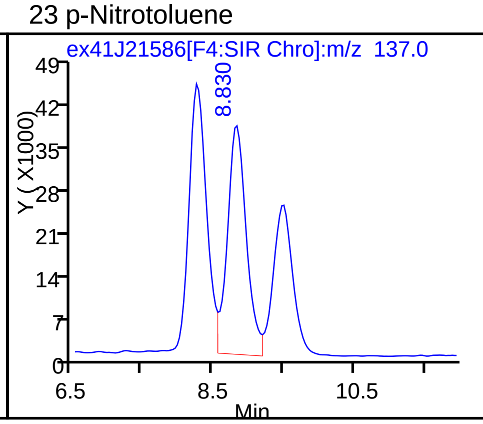
21 3,5-Dinitrotoluene



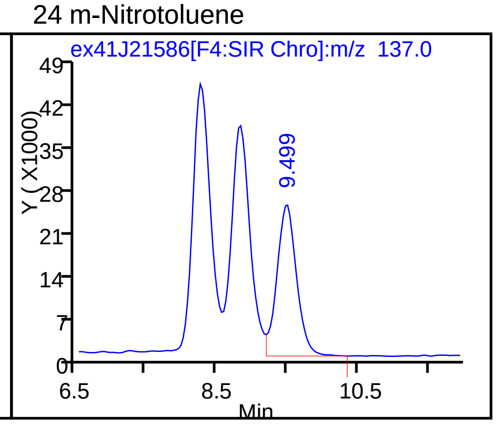
22 o-Nitrotoluene



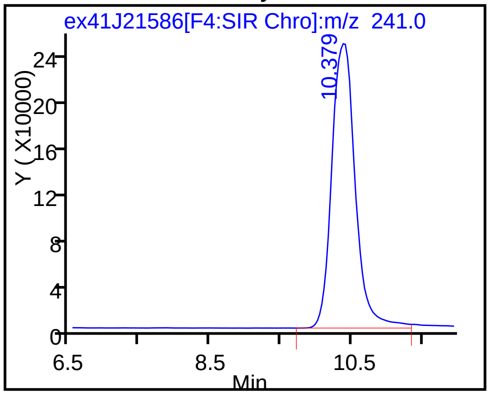
23 p-Nitrotoluene



24 m-Nitrotoluene



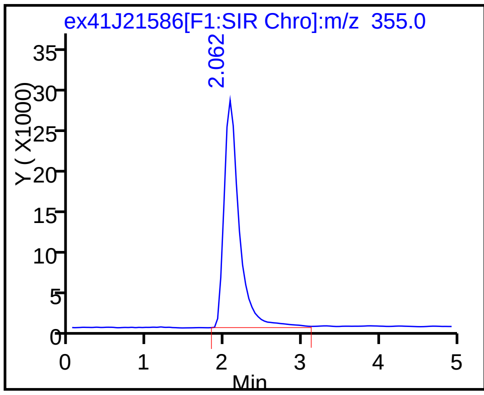
25 2,4,6-Trinitro-3-xylene



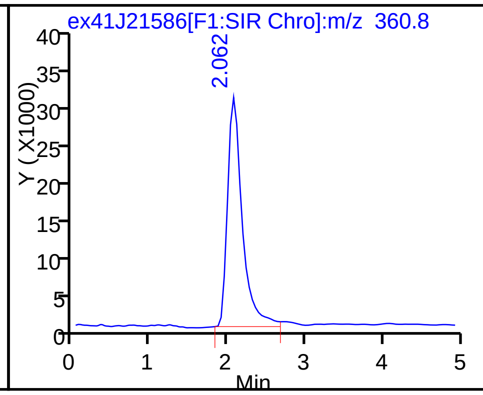
Report Date: 02-Nov-2011 06:41:38 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21586.d

Injection Date:	01-Nov-2011 17:11:43	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	110
Operator ID:		Injection Vol:	40.00 ul

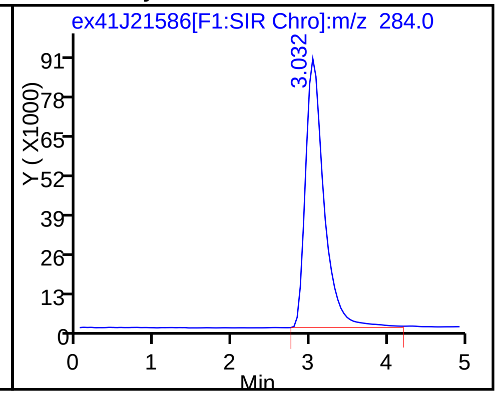
2 HMX



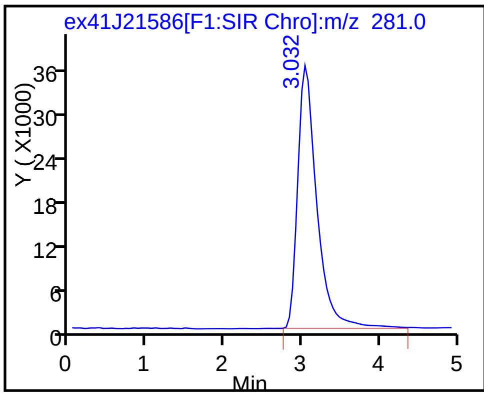
* 1 HMX-13C4



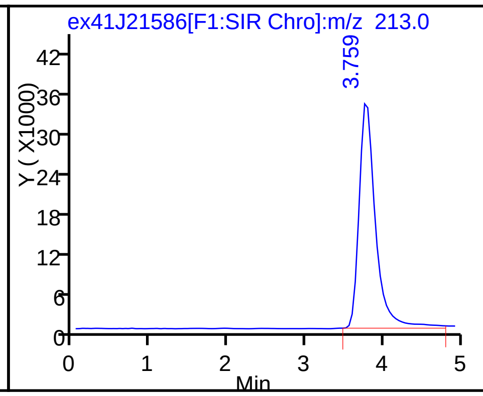
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



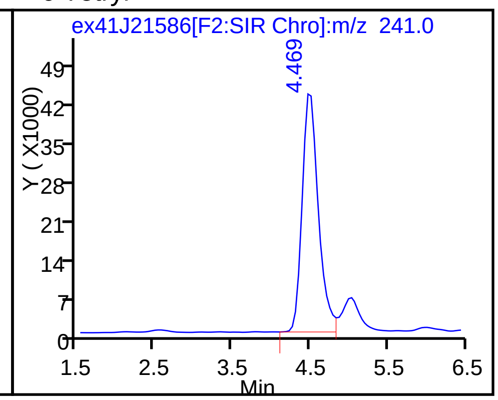
4 RDX



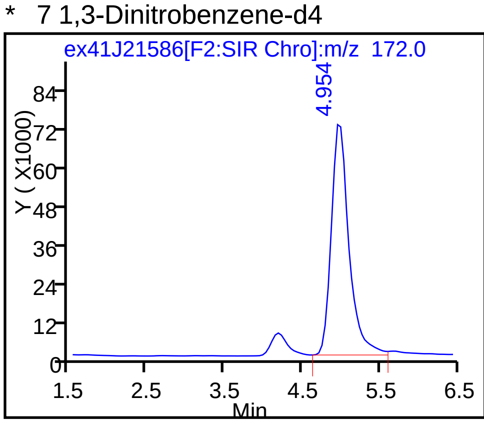
5 1,3,5-Trinitrobenzene



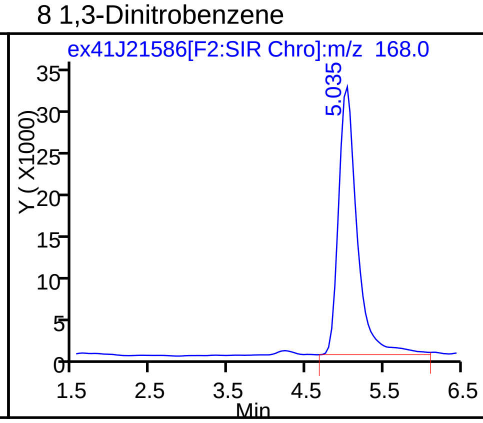
6 Tetryl



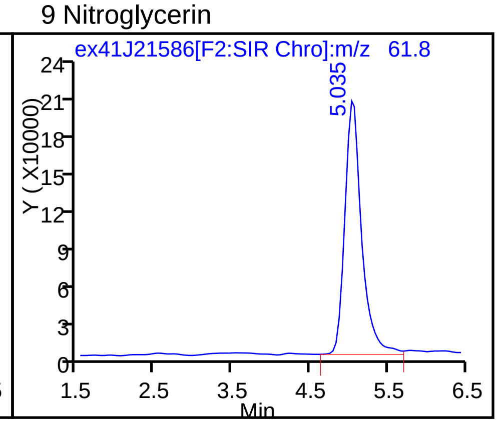
* 7 1,3-Dinitrobenzene-d4



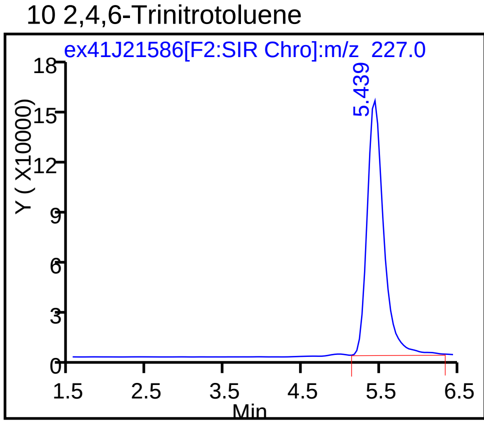
8 1,3-Dinitrobenzene



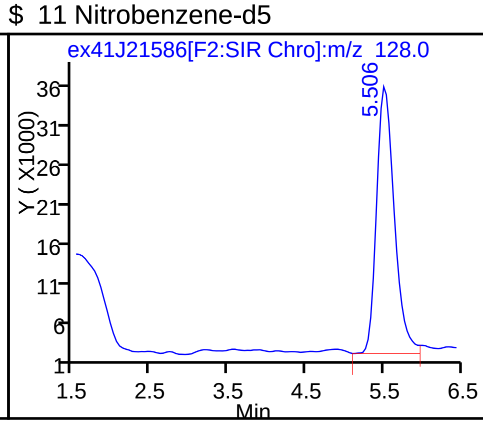
9 Nitroglycerin



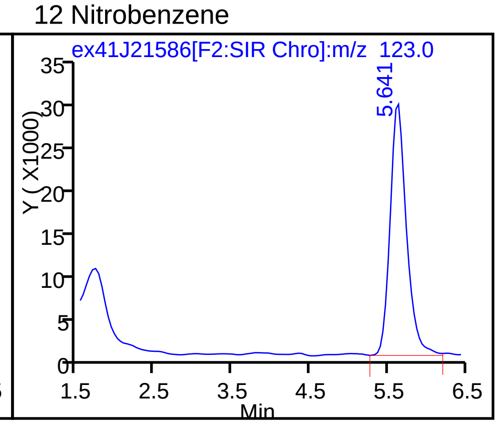
10 2,4,6-Trinitrotoluene



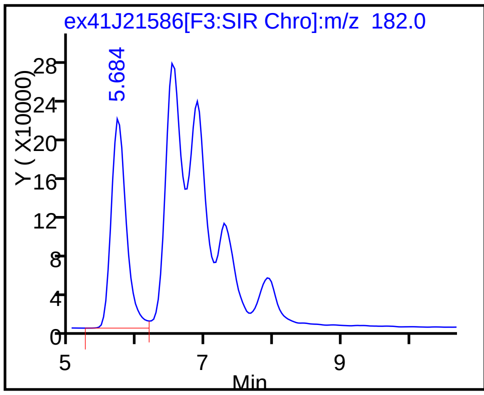
$ 11 Nitrobenzene-d5



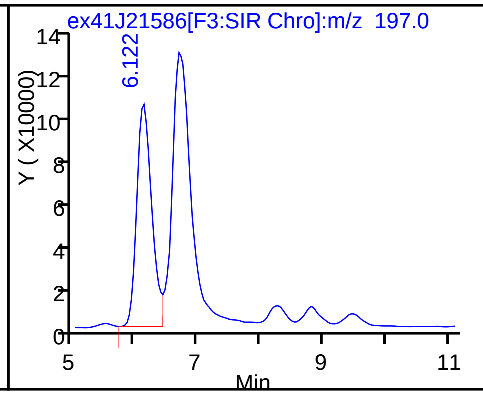
12 Nitrobenzene



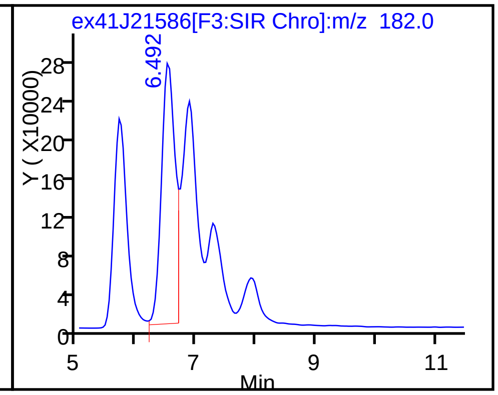
13 3,4-Dinitrotoluene



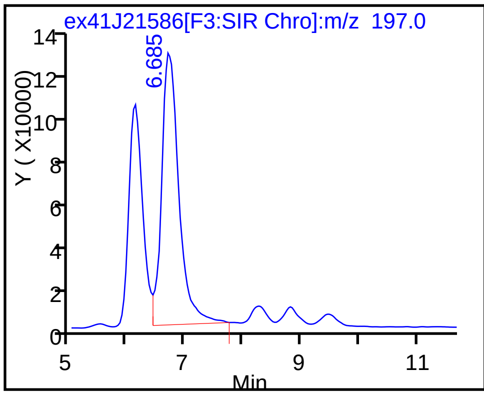
14 4-Amino-2,6-dinitrotoluene



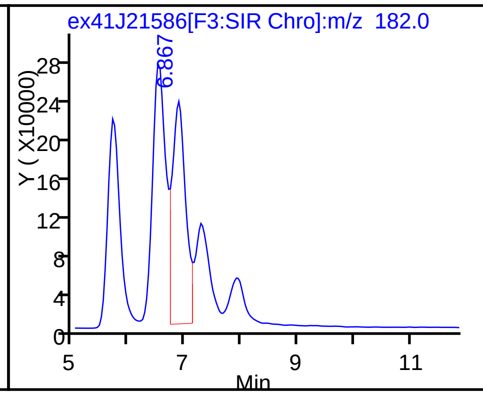
15 2,3-Dinitrotoluene



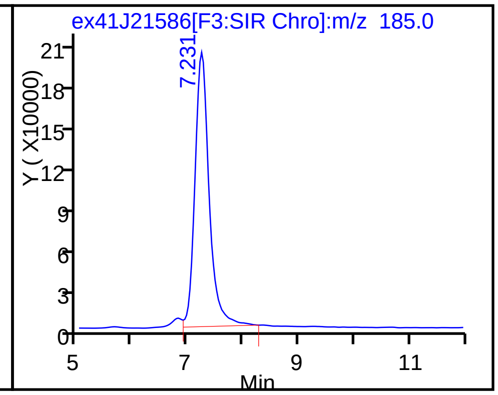
16 2-Amino-4,6-dinitrotoluene



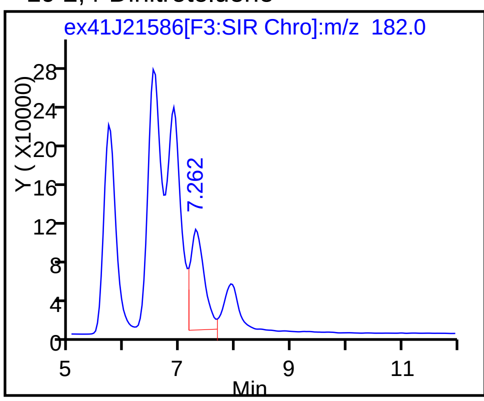
17 2,6-Dinitrotoluene



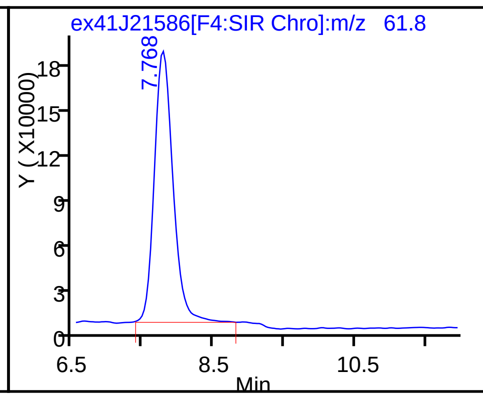
* 18 2,4-dinitrotoluene-d3



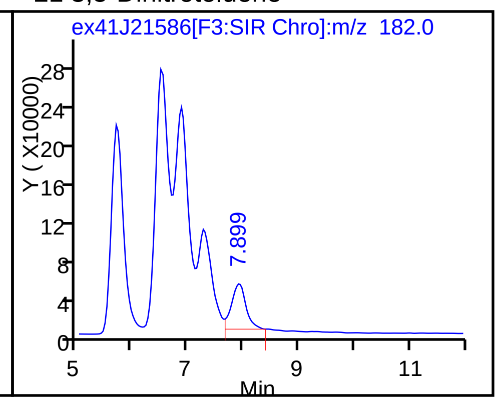
19 2,4-Dinitrotoluene



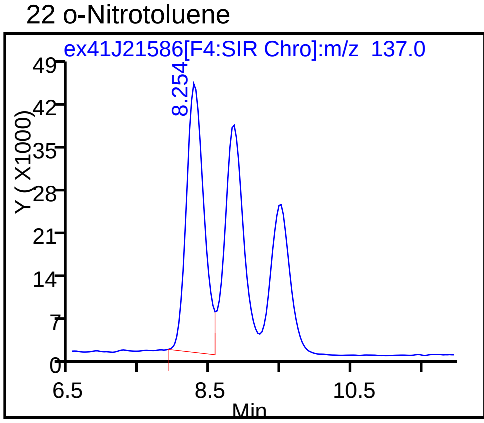
20 PETN



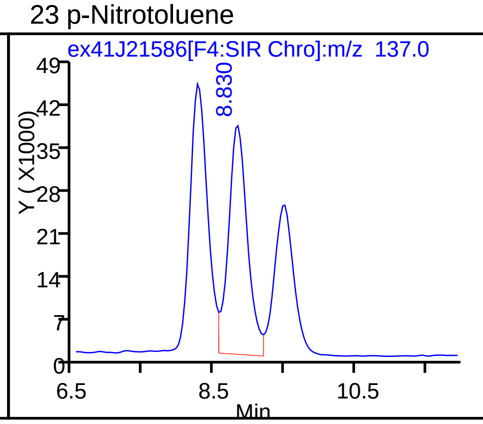
21 3,5-Dinitrotoluene



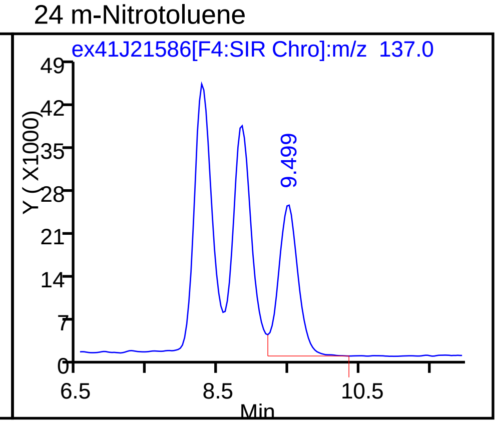
22 o-Nitrotoluene



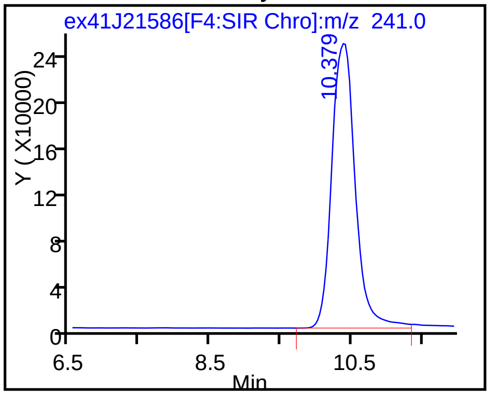
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94193/119   Calibration Date: 11/01/2011 19:14

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21595.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.053		46.2	50.0	-7.6	20.0
RDX	Lin1		0.9753		50.4	49.4	2.1	20.0
1,3,5-Trinitrobenzene	Lin1		1.059		45.9	50.1	-8.3	20.0
Tetryl	Lin1		1.287		47.3	49.7	-4.8	20.0
1,3-Dinitrobenzene	Lin1		1.069		48.4	50.7	-4.5	20.0
Nitroglycerin	Lin1		7.059		53.1	50.0	6.2	30.0
2,4,6-Trinitrotoluene	Lin1		5.049		51.3	50.1	2.5	20.0
Nitrobenzene	Lin1		0.9167		45.2	50.0	-9.5	20.0
3,4-Dinitrotoluene	Lin1		2.342		50.7	50.0	1.4	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.170		48.6	49.4	-1.5	20.0
2,3-Dinitrotoluene	Lin1		2.982		49.1	50.0	-1.8	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.742		59.3	50.1	18.5	20.0
2,6-Dinitrotoluene	Lin1		2.596		48.8	50.1	-2.5	20.0
2,4-Dinitrotoluene	Lin1		1.167		46.0	50.2	-8.3	20.0
PETN	Lin1		2.335		58.6	49.9	17.4	30.0
3,5-Dinitrotoluene	Lin1		0.5826		45.5	50.0	-9.0	30.0
2-Nitrotoluene	Lin1		0.5004		46.5	49.6	-6.2	20.0
4-Nitrotoluene	Lin1		0.4315		45.4	49.8	-8.7	20.0
3-Nitrotoluene	Lin1		0.2648		44.6	49.4	-9.7	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.18		46.0	50.0	-8.0	30.0
Nitrobenzene-d5	Lin1		1.172		45.6	50.0	-8.8	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21595.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	01-Nov-2011 19:14:25	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX4 CCV 50 ug/L 280-0002689-119		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94193	Lims Sample ID:	119
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:53	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

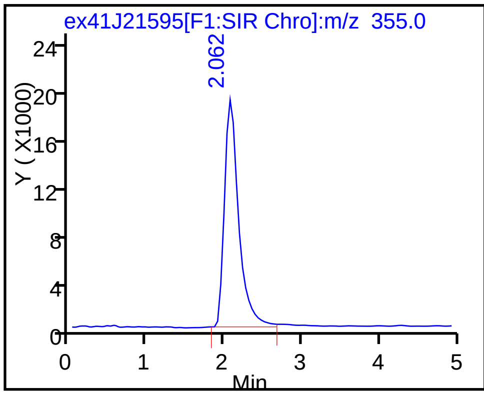
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	247624	46.2			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		603141	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2089401	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	402277	50.4			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	288129	45.9			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.910	347696	47.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1405828	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.034	0.000	1.016	294634	48.4			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.023	1917843	53.1			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.098	1373206	51.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	318461	45.6			
12 Nitrobenzene										
2	123.0	5.640	5.640	0.000	1.139	248817	45.2			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.789	1945361	50.7			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.850	958812	48.6			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.902	2475426	49.1			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.932	1447755	59.3			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	2157274	48.8			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4151383	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.013	972135	46.0			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	1934612	58.6			
21 3,5-Dinitrotoluene										
3	182.0	7.899	7.899	0.000	1.097	483707	45.5			
22 o-Nitrotoluene										
4	137.0	8.284	8.284	0.000	1.000	411722	46.5			
23 p-Nitrotoluene										
4	137.0	8.830	8.830	0.000	1.000	356449	45.4			
24 m-Nitrotoluene										
4	137.0	9.499	9.499	0.000	1.000	217202	44.6			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.379	10.379	0.000	1.000	2766474	46.0			

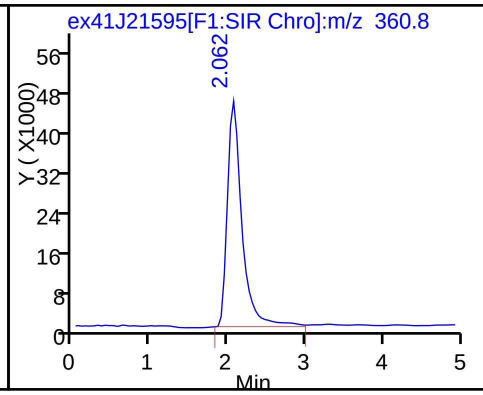
Report Date: 02-Nov-2011 06:47:53 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21595.d

Injection Date:	01-Nov-2011 19:14:25	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	119
Operator ID:		Injection Vol:	40.00 ul

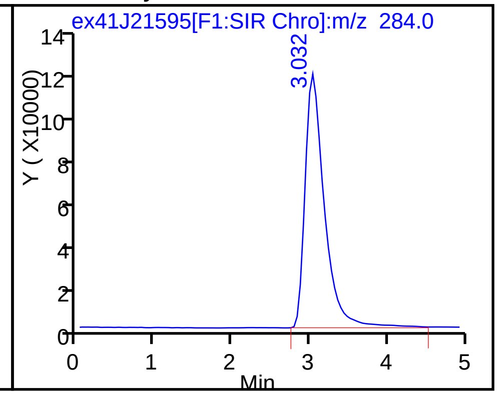
2 HMX



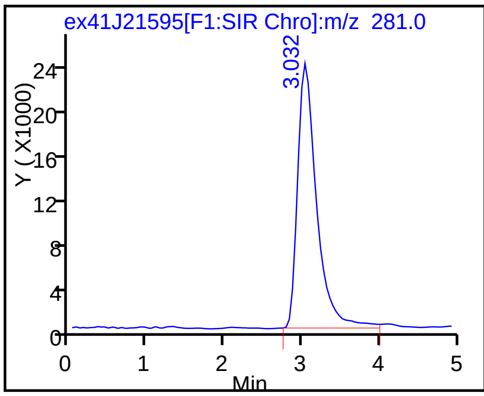
* 1 HMX-13C4



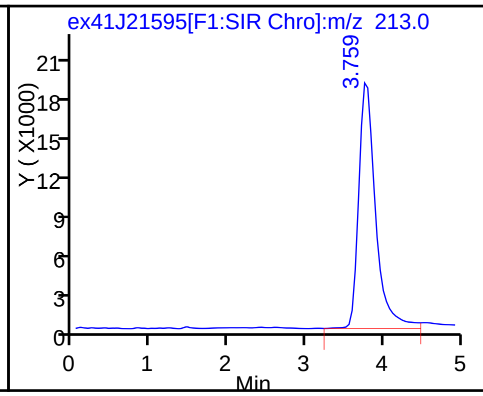
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



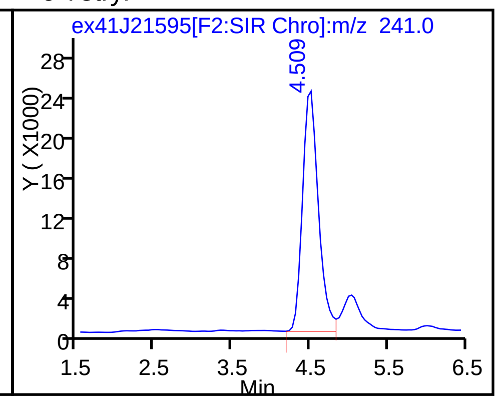
4 RDX



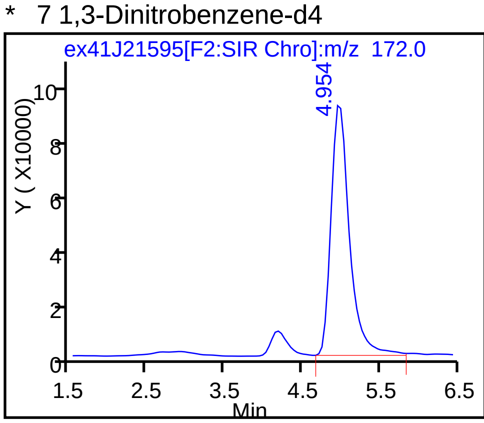
5 1,3,5-Trinitrobenzene



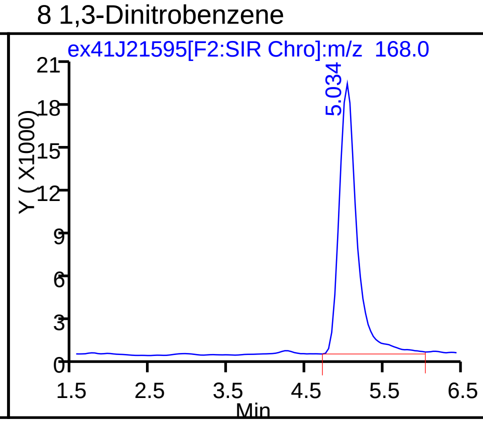
6 Tetryl



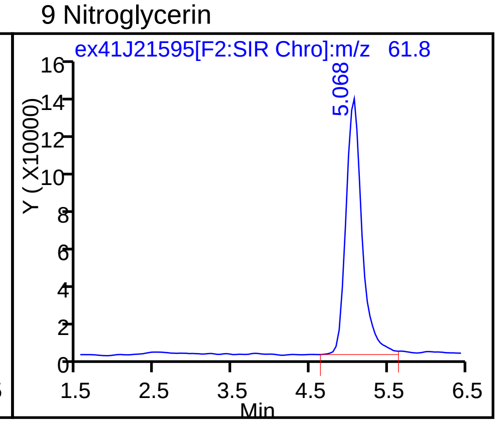
* 7 1,3-Dinitrobenzene-d4



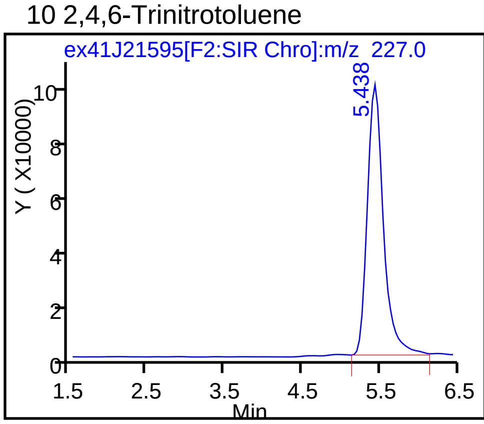
8 1,3-Dinitrobenzene



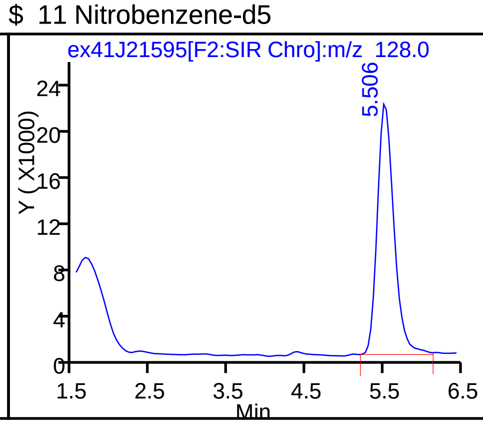
9 Nitroglycerin



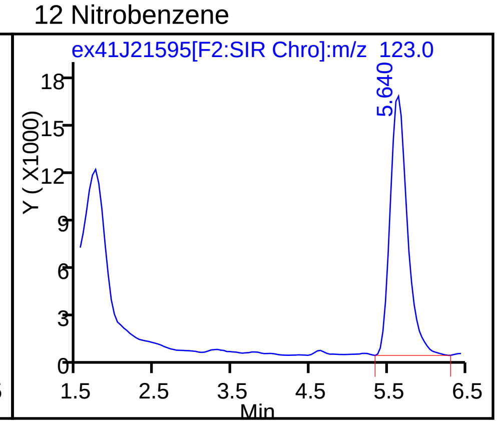
10 2,4,6-Trinitrotoluene



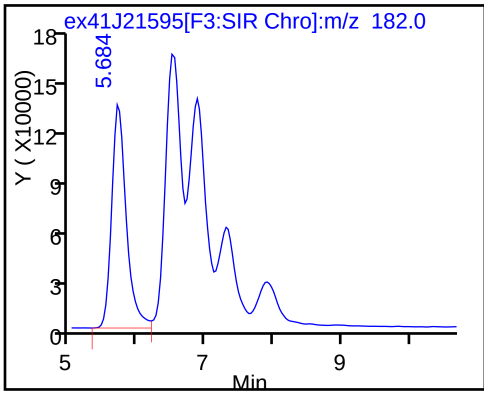
$ 11 Nitrobenzene-d5



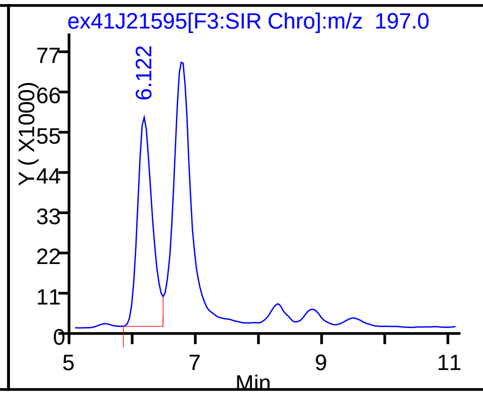
12 Nitrobenzene



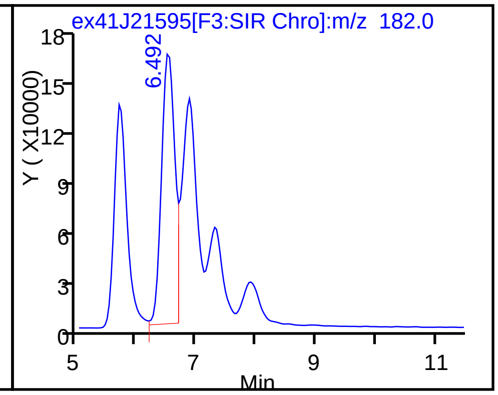
13 3,4-Dinitrotoluene



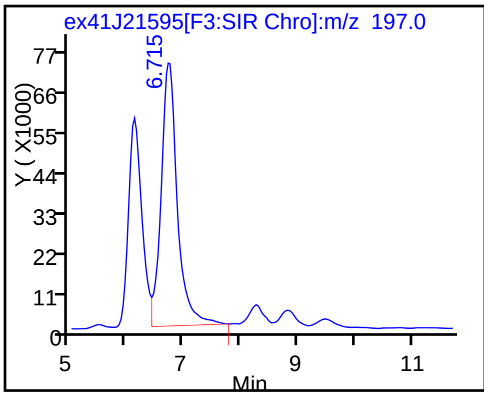
14 4-Amino-2,6-dinitrotoluene



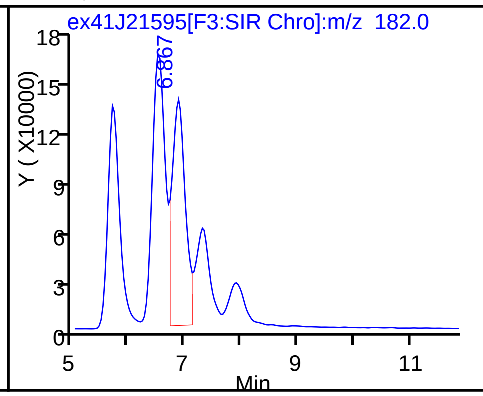
15 2,3-Dinitrotoluene



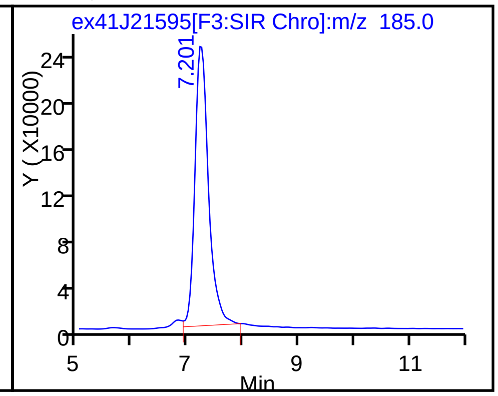
16 2-Amino-4,6-dinitrotoluene



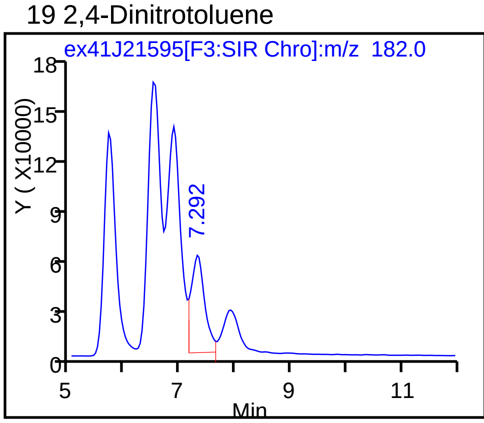
17 2,6-Dinitrotoluene



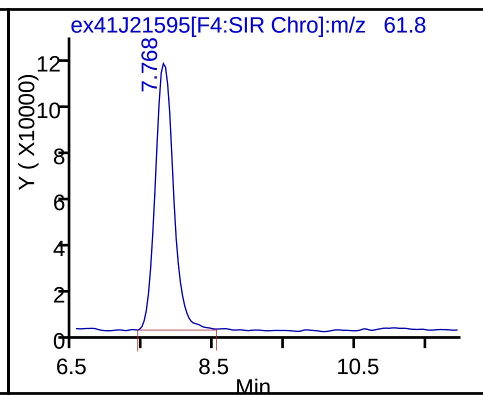
* 18 2,4-dinitrotoluene-d3



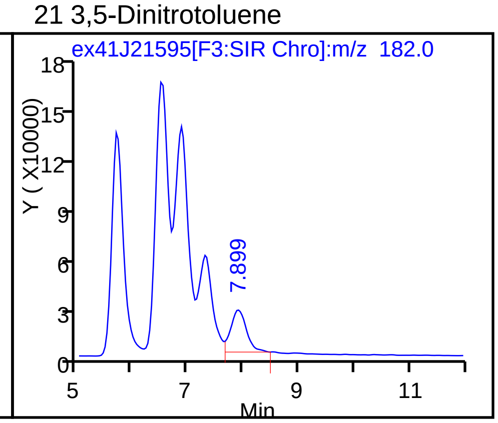
19 2,4-Dinitrotoluene



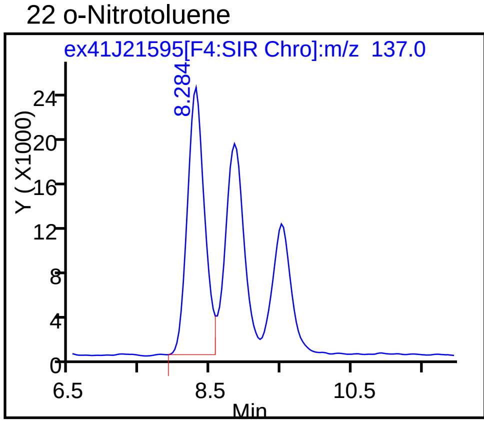
20 PETN



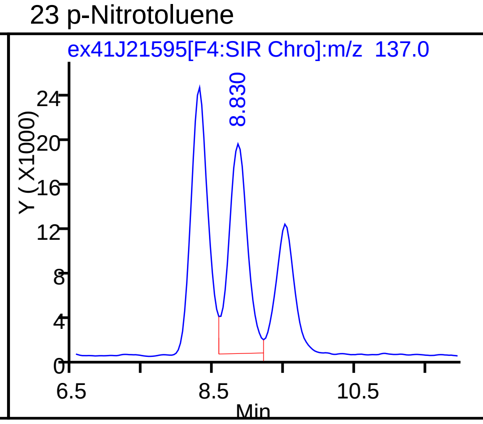
21 3,5-Dinitrotoluene



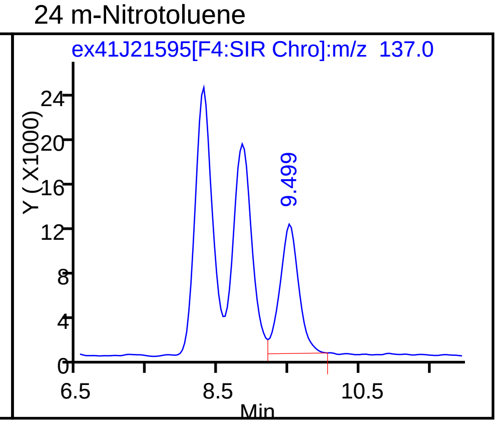
22 o-Nitrotoluene



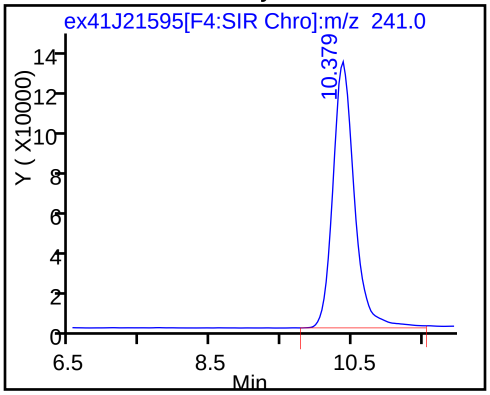
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94193/128 Calibration Date: 11/01/2011 21:17

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21604.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.296		102	100	2.4	20.0
RDX	Lin1		1.082		112	98.7	13.6	20.0
1,3,5-Trinitrobenzene	Lin1		1.222		103	100	2.7	20.0
Tetryl	Lin1		1.522		109	99.4	9.9	20.0
1,3-Dinitrobenzene	Lin1		1.176		106	101	4.5	20.0
Nitroglycerin	Lin1		7.305		109	100	8.7	30.0
2,4,6-Trinitrotoluene	Lin1		5.241		106	100	5.7	20.0
Nitrobenzene	Lin1		1.014		99.7	99.9	-0.2	20.0
3,4-Dinitrotoluene	Lin1		2.404		104	100	4.3	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.192		98.9	98.7	0.2	20.0
2,3-Dinitrotoluene	Lin1		3.193		105	100	5.4	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.537		105	100	4.8	20.0
2,6-Dinitrotoluene	Lin1		2.689		101	100	1.1	20.0
2,4-Dinitrotoluene	Lin1		1.376		108	100	7.8	20.0
PETN	Lin1		2.535		129	99.8	29.7	30.0
3,5-Dinitrotoluene	Lin1		0.6611		102	100	1.6	30.0
2-Nitrotoluene	Lin1		0.5403		101	99.1	1.6	20.0
4-Nitrotoluene	Lin1		0.4785		100	99.5	0.9	20.0
3-Nitrotoluene	Lin1		0.3047		103	98.8	4.0	20.0
2,4,6-Trinitro-3-xylene	Lin1		12.33		111	100	11.3	30.0
Nitrobenzene-d5	Lin1		1.308		103	100	2.5	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21604.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	01-Nov-2011 21:17:03	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX5 CCV 100 ug/L 280-0002689-128		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	94193	Lims Sample ID:	128
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:48:00	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

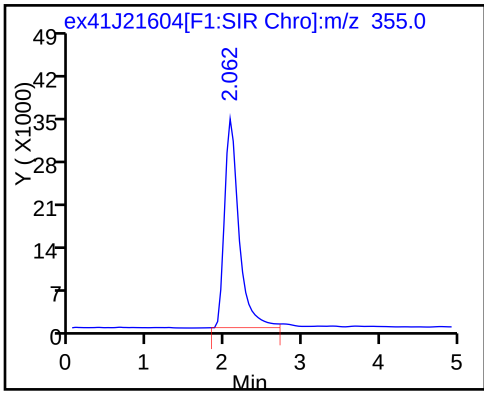
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	453301	102.4			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		493631	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1767112	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	754762	112.1			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	516712	102.8			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.895	639190	109.2			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1092873	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.008	503512	106.0			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	3085532	108.7			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.439	0.000	1.089	2216154	105.8			
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.540	0.000	1.109	552711	102.5			
12 Nitrobenzene										
2	123.0	5.641	5.641	0.000	1.129	428101	99.7			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.786	3231974	104.3			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1580713	98.9			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.898	4289835	105.4			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.929	2068009	104.9			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.945	3617360	101.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3359494	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	1854401	108.1			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3399382	129.4			
21 3,5-Dinitrotoluene										
3	182.0	7.899	7.899	0.000	1.092	888331	101.6			
22 o-Nitrotoluene										
4	137.0	8.284	8.284	0.000	1.000	719570	100.7			
23 p-Nitrotoluene										
4	137.0	8.830	8.830	0.000	1.000	639807	100.4			
24 m-Nitrotoluene										
4	137.0	9.499	9.499	0.000	1.000	404510	102.8			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.379	10.379	0.000	1.000	5206721	111.3			

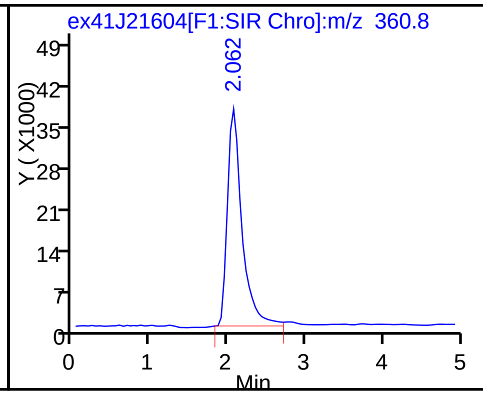
Report Date: 02-Nov-2011 06:48:01 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21604.d		
Injection Date:	01-Nov-2011 21:17:03	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	128
Operator ID:		Injection Vol:	40.00 ul

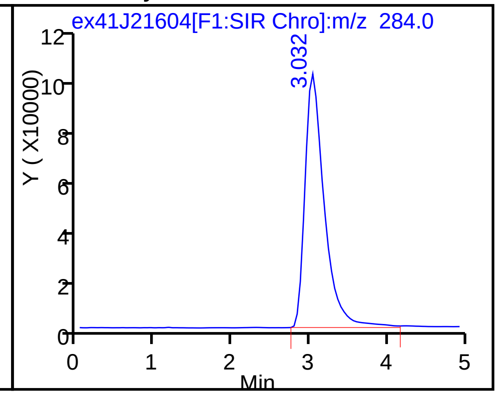
2 HMX



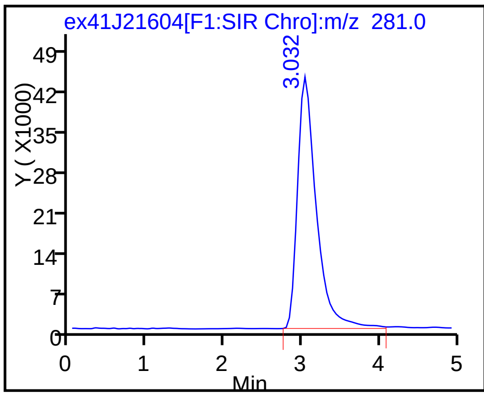
* 1 HMX-13C4



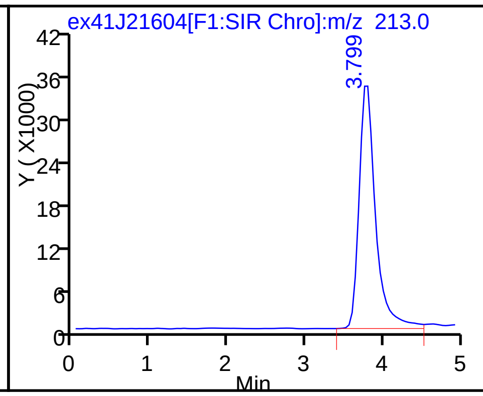
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



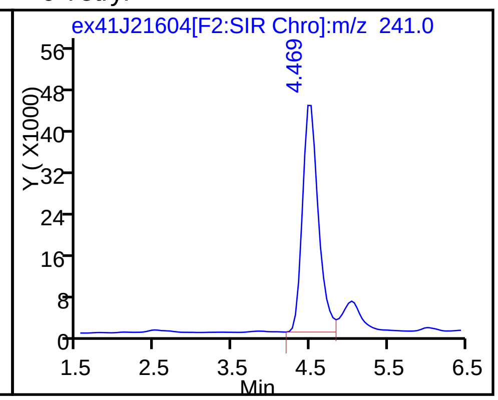
4 RDX



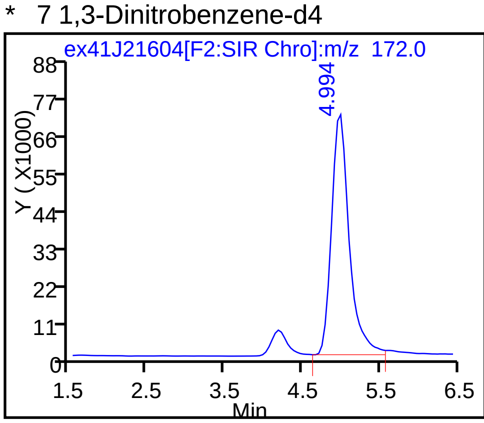
5 1,3,5-Trinitrobenzene



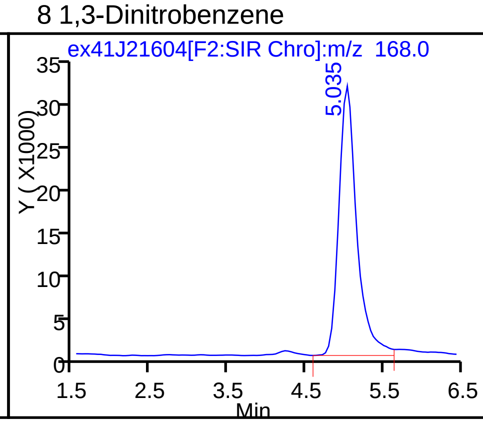
6 Tetryl



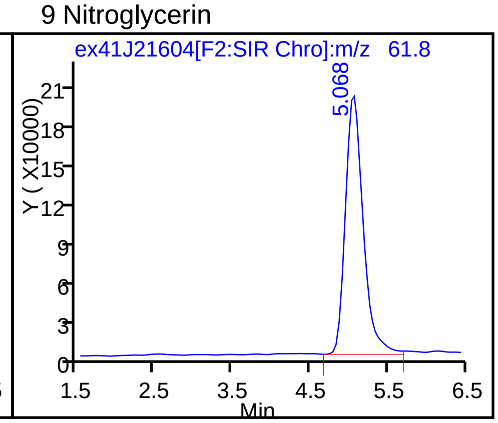
* 7 1,3-Dinitrobenzene-d4



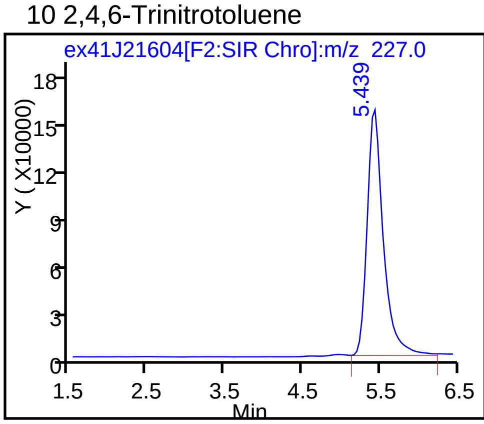
8 1,3-Dinitrobenzene



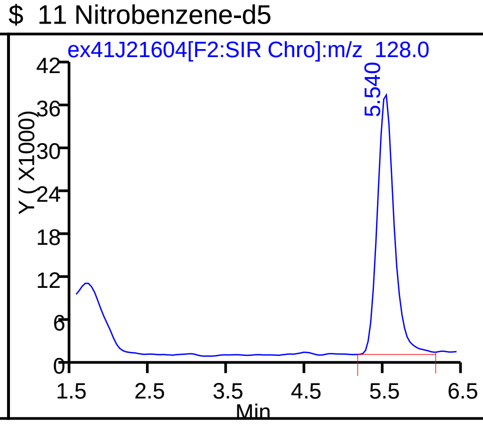
9 Nitroglycerin



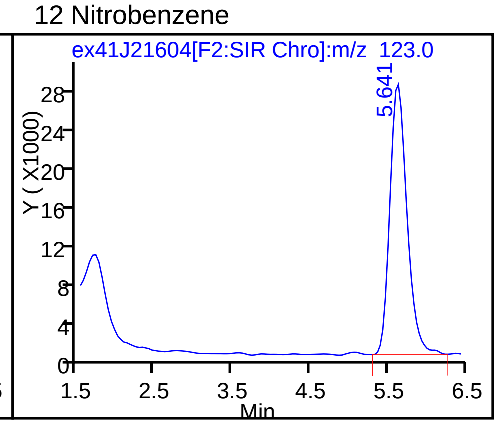
10 2,4,6-Trinitrotoluene



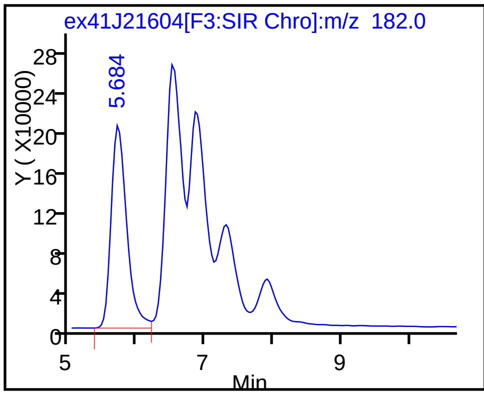
$ 11 Nitrobenzene-d5



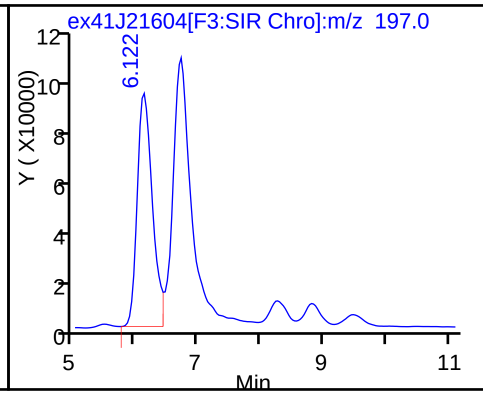
12 Nitrobenzene



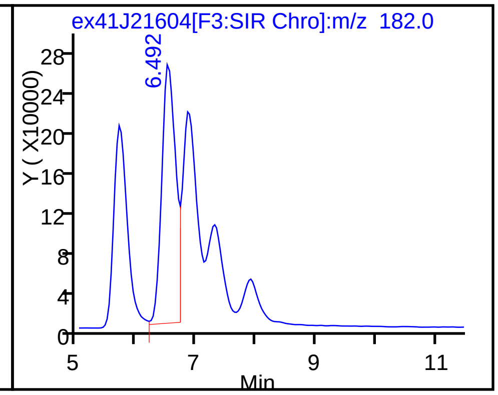
13 3,4-Dinitrotoluene



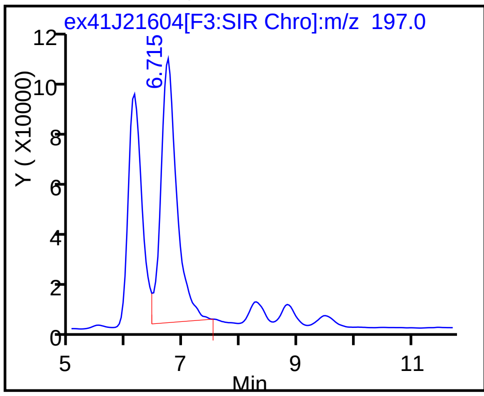
14 4-Amino-2,6-dinitrotoluene



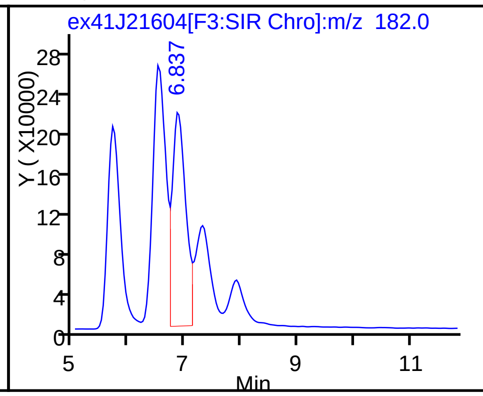
15 2,3-Dinitrotoluene



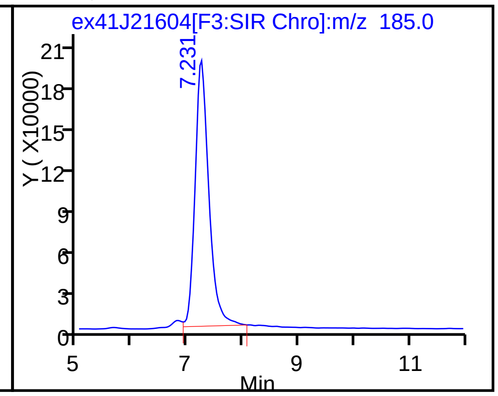
16 2-Amino-4,6-dinitrotoluene



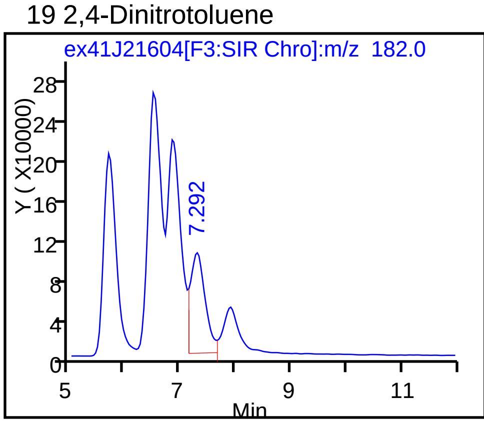
17 2,6-Dinitrotoluene



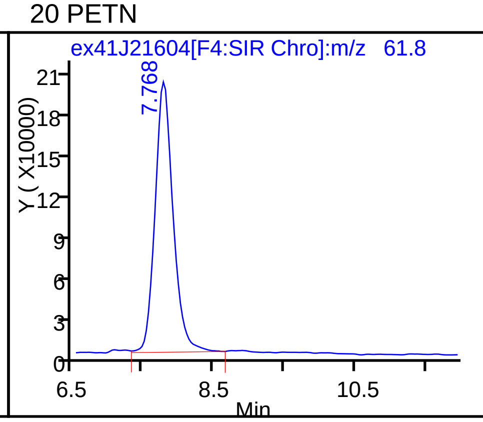
* 18 2,4-dinitrotoluene-d3



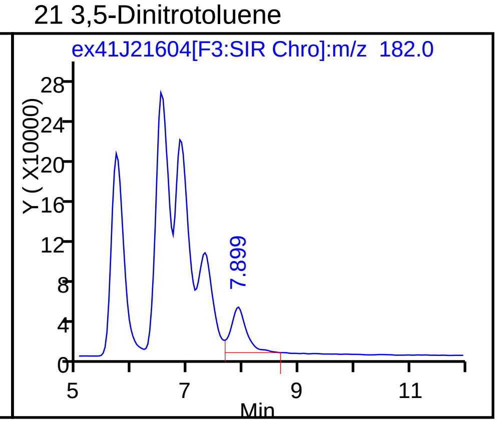
19 2,4-Dinitrotoluene



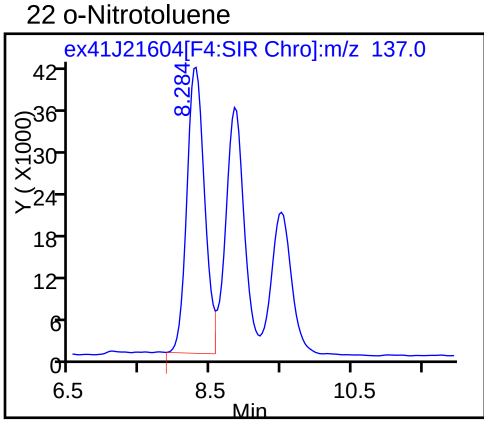
20 PETN



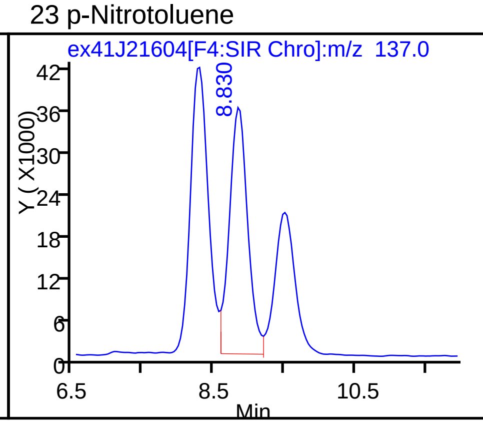
21 3,5-Dinitrotoluene



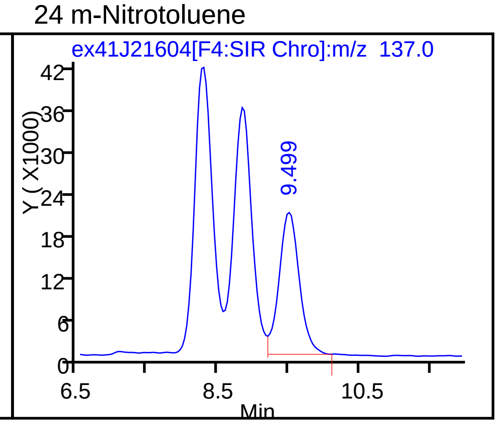
22 o-Nitrotoluene



23 p-Nitrotoluene

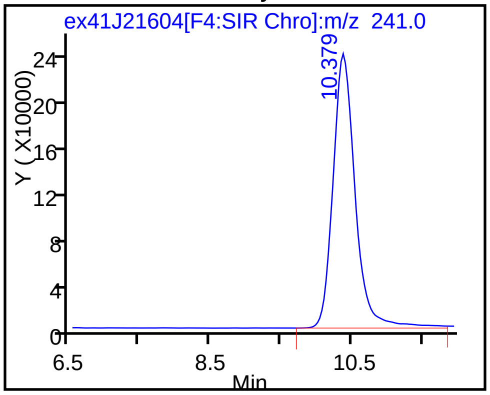


24 m-Nitrotoluene



Report Date: 02-Nov-2011 06:48:01 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21604.d

25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94193/137 Calibration Date: 11/01/2011 23:19

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21613.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.107		47.4	50.0	-5.2	20.0
RDX	Lin1		1.023		52.9	49.4	7.2	20.0
1,3,5-Trinitrobenzene	Lin1		0.9405		41.0	50.1	-18.1	20.0
Tetryl	Lin1		1.160		42.8	49.7	-13.9	20.0
1,3-Dinitrobenzene	Lin1		1.069		48.4	50.7	-4.5	20.0
Nitroglycerin	Lin1		6.780		51.0	50.0	2.0	30.0
2,4,6-Trinitrotoluene	Lin1		4.525		46.0	50.1	-8.1	20.0
Nitrobenzene	Lin1		0.8491		41.8	50.0	-16.3	20.0
3,4-Dinitrotoluene	Lin1		1.873		40.5	50.0	-19.0	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.125		46.8	49.4	-5.2	20.0
2,3-Dinitrotoluene	Lin1		3.172		52.3	50.0	4.6	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.722		58.6	50.1	17.1	20.0
2,6-Dinitrotoluene	Lin1		2.555		48.1	50.1	-3.9	20.0
2,4-Dinitrotoluene	Lin1		1.205		47.4	50.2	-5.5	20.0
PETN	Lin1		2.153		53.8	49.9	7.8	30.0
3,5-Dinitrotoluene	Lin1		0.6339		49.4	50.0	-1.2	30.0
2-Nitrotoluene	Lin1		0.4910		45.6	49.6	-8.0	20.0
4-Nitrotoluene	Lin1		0.4246		44.7	49.8	-10.2	20.0
3-Nitrotoluene	Lin1		0.2338		39.3	49.4	-20.4*	20.0
2,4,6-Trinitro-3-xylene	Lin1		9.703		43.9	50.0	-12.2	30.0
Nitrobenzene-d5	Lin1		1.131		44.0	50.0	-12.0	20.0

FORM VII 8321B

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94194/137 Calibration Date: 11/01/2011 23:19

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21613.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.107		47.4	50.0	-5.2	20.0
RDX	Lin1		1.023		52.9	49.4	7.2	20.0
1,3,5-Trinitrobenzene	Lin1		0.9405		41.0	50.1	-18.1	20.0
Tetryl	Lin1		1.160		42.8	49.7	-13.9	20.0
1,3-Dinitrobenzene	Lin1		1.069		48.4	50.7	-4.5	20.0
Nitroglycerin	Lin1		6.780		51.0	50.0	2.0	30.0
2,4,6-Trinitrotoluene	Lin1		4.525		46.0	50.1	-8.1	20.0
Nitrobenzene	Lin1		0.8491		41.8	50.0	-16.3	20.0
3,4-Dinitrotoluene	Lin1		1.873		40.5	50.0	-19.0	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.125		46.8	49.4	-5.2	20.0
2,3-Dinitrotoluene	Lin1		3.172		52.3	50.0	4.6	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.722		58.6	50.1	17.1	20.0
2,6-Dinitrotoluene	Lin1		2.555		48.1	50.1	-3.9	20.0
2,4-Dinitrotoluene	Lin1		1.205		47.4	50.2	-5.5	20.0
PETN	Lin1		2.153		53.8	49.9	7.8	30.0
3,5-Dinitrotoluene	Lin1		0.6339		49.4	50.0	-1.2	30.0
2-Nitrotoluene	Lin1		0.4910		45.6	49.6	-8.0	20.0
4-Nitrotoluene	Lin1		0.4246		44.7	49.8	-10.2	20.0
3-Nitrotoluene	Lin1		0.2338		39.3	49.4	-20.4*	20.0
2,4,6-Trinitro-3-xylene	Lin1		9.703		43.9	50.0	-12.2	30.0
Nitrobenzene-d5	Lin1		1.131		44.0	50.0	-12.0	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21613.d
Lims ID: CCV Client ID:
Inject. Date: 01-Nov-2011 23:19:56 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 11/01/11EX4 CCV 50 ug/L 280-0002689-137
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 5
Lims Batch ID: 94193 Lims Sample ID: 137
Sublist: chrom-8321exp4-25*sub3
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m
Last Update: 02-Nov-2011 06:59:05 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

First Level Reviewer: meyera Date: 02-Nov-2011 06:59:05

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	249219	47.4			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		591285	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2013215	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	406622	52.9			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	248829	41.0			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	304705	42.8			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1367657	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.008	286470	48.4			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	1791993	51.0			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.439	0.000	1.089	1197178	46.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	298901	44.0			
12 Nitrobenzene										
2	123.0	5.641	5.641	0.000	1.129	224202	41.8			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.786	1628873	40.5			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.156	0.000	0.851	965288	46.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.533	6.533	0.000	0.903	2756513	52.3			
16 2-Amino-4,6-dinitrotoluene										M
3	197.0	6.715	6.715	0.000	0.929	1497970	58.6			M
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.950	2223010	48.1			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4345645	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	1050107	47.4			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	1867627	53.8			
21 3,5-Dinitrotoluene										
3	182.0	7.899	7.899	0.000	1.092	550911	49.4			
22 o-Nitrotoluene										
4	137.0	8.284	8.284	0.000	1.000	422879	45.6			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	367162	44.7			
24 m-Nitrotoluene										
4	137.0	9.499	9.499	0.000	1.000	200745	39.3			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.349	10.349	0.000	1.000	2564592	43.9			

QC Flag Legend

Review Flags
M - Manually Integrated

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21613.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	01-Nov-2011 23:19:56	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX4 CCV 50 ug/L 280-0002689-137		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94194	Lims Sample ID:	137
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:59:05	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 02-Nov-2011 06:59:05

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	249219	47.4			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		591285	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2013215	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	406622	52.9			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	248829	41.0			
	6 Tetryl									
2	241.0	4.509	4.509	0.000	0.903	304705	42.8			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.994	4.994	0.000		1367657	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	5.035	5.035	0.000	1.008	286470	48.4			
	9 Nitroglycerin									
2	61.8	5.068	5.068	0.000	1.015	1791993	51.0			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.439	5.439	0.000	1.089	1197178	46.0			
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.102	298901	44.0			
	12 Nitrobenzene									
2	123.0	5.641	5.641	0.000	1.129	224202	41.8			
	13 3,4-Dinitrotoluene									
3	182.0	5.684	5.684	0.000	0.786	1628873	40.5			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.156	6.156	0.000	0.851	965288	46.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.533	6.533	0.000	0.903	2756513	52.3			
16 2-Amino-4,6-dinitrotoluene										M
3	197.0	6.715	6.715	0.000	0.929	1497970	58.6			M
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.950	2223010	48.1			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4345645	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	1050107	47.4			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	1867627	53.8			
21 3,5-Dinitrotoluene										
3	182.0	7.899	7.899	0.000	1.092	550911	49.4			
22 o-Nitrotoluene										
4	137.0	8.284	8.284	0.000	1.000	422879	45.6			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	367162	44.7			
24 m-Nitrotoluene										
4	137.0	9.499	9.499	0.000	1.000	200745	39.3			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.349	10.349	0.000	1.000	2564592	43.9			

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 02-Nov-2011 06:59:05   Chrom Revision: 1.2 13-Jul-2011 10:43:06
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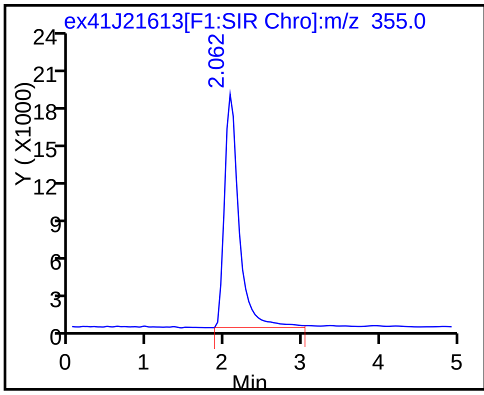
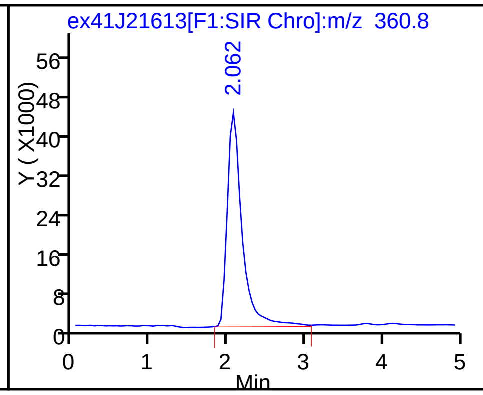
Injection Date:	01-Nov-2011 23:19:56	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	137
Operator ID:		Injection Vol:	40.00 ul

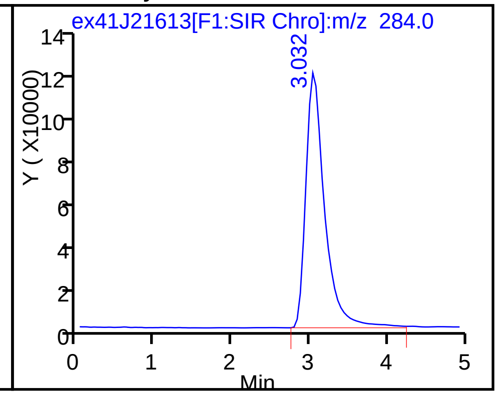
2 HMX



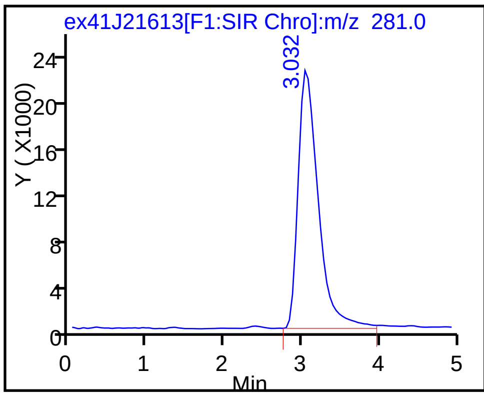
* 1 HMX-13C4



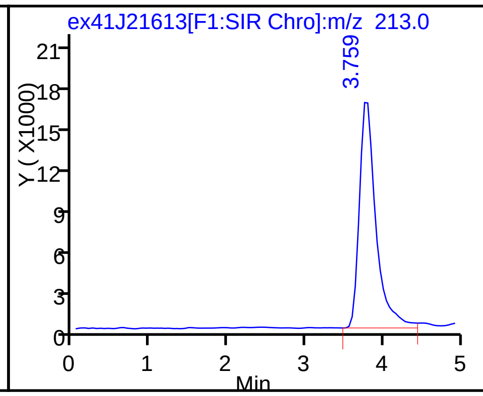
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



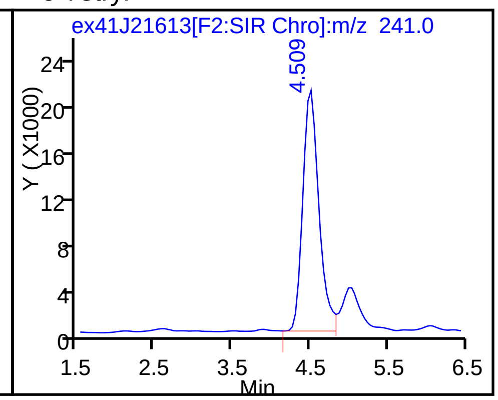
4 RDX



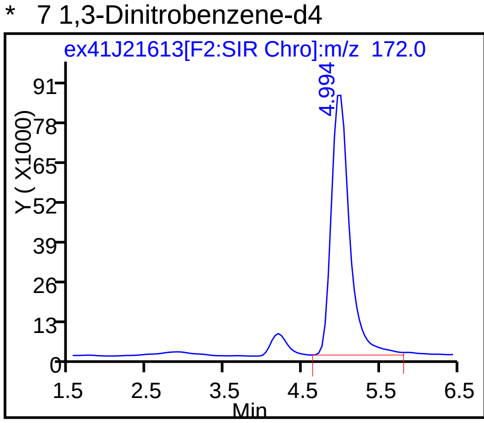
5 1,3,5-Trinitrobenzene



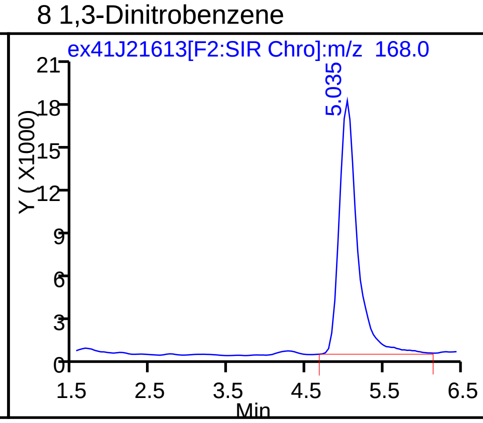
6 Tetryl



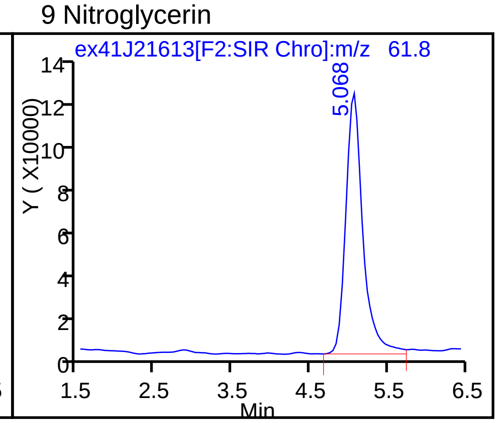
* 7 1,3-Dinitrobenzene-d4



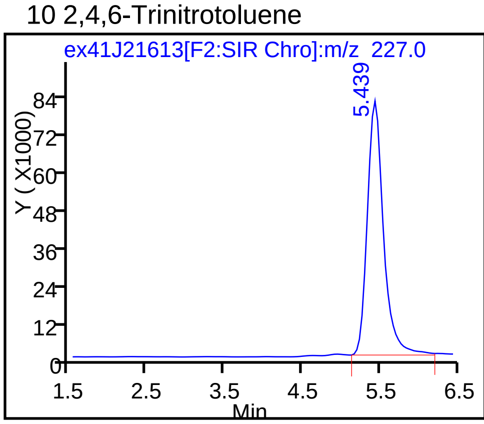
8 1,3-Dinitrobenzene



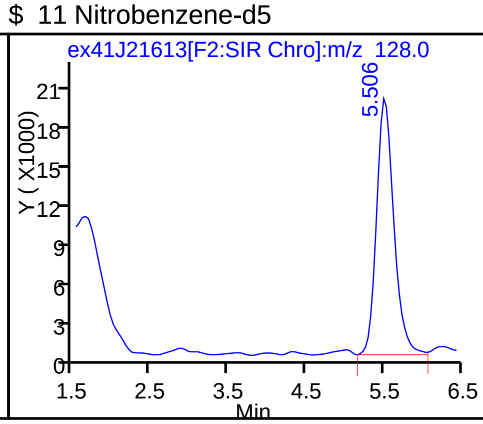
9 Nitroglycerin



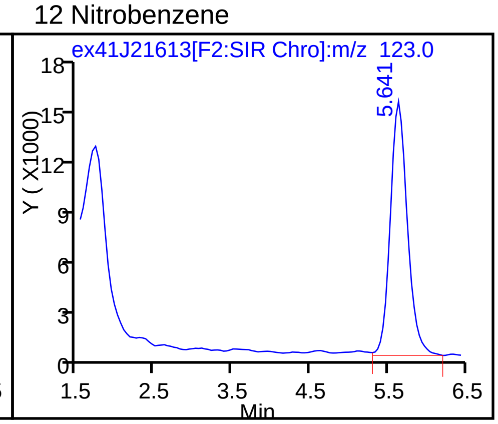
10 2,4,6-Trinitrotoluene



$ 11 Nitrobenzene-d5



12 Nitrobenzene



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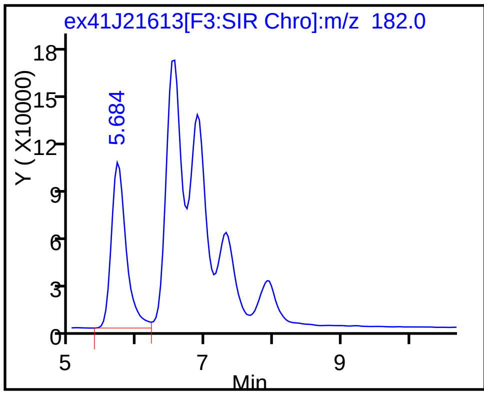
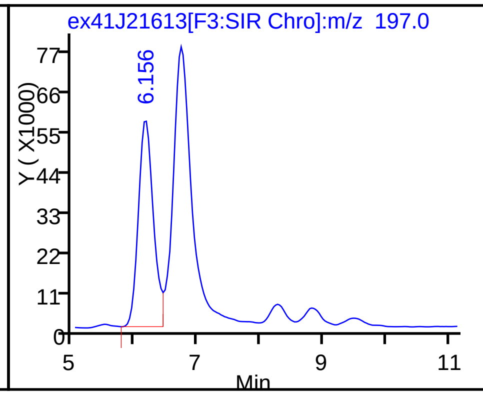
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21613.d

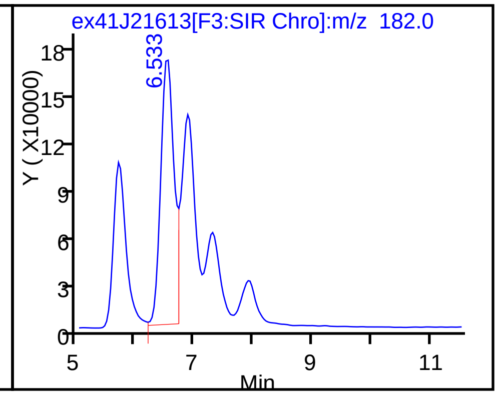
13 3,4-Dinitrotoluene



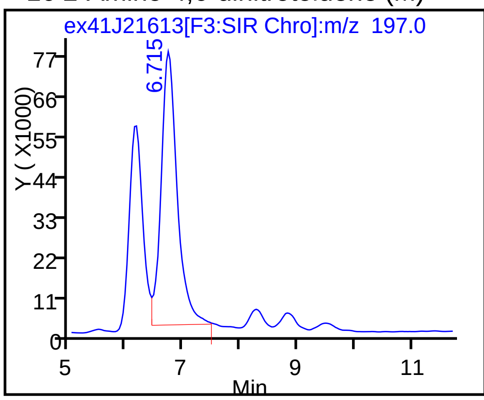
14 4-Amino-2,6-dinitrotoluene



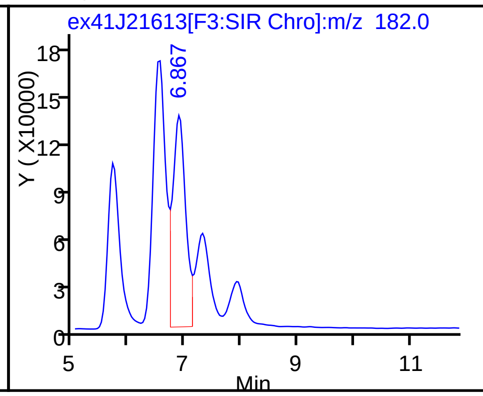
15 2,3-Dinitrotoluene



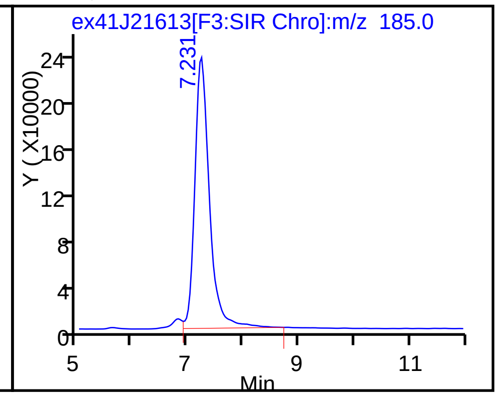
16 2-Amino-4,6-dinitrotoluene (M)



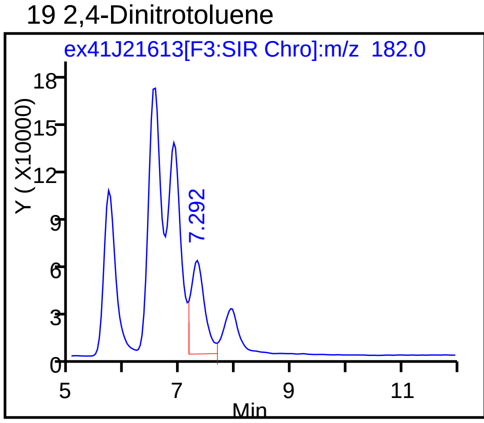
17 2,6-Dinitrotoluene



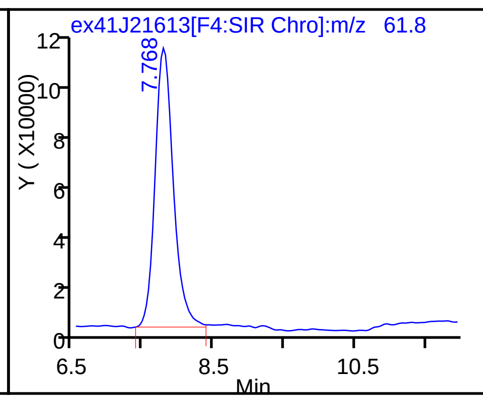
* 18 2,4-dinitrotoluene-d3



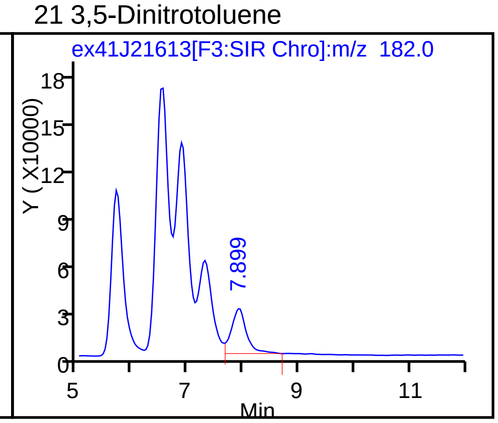
19 2,4-Dinitrotoluene



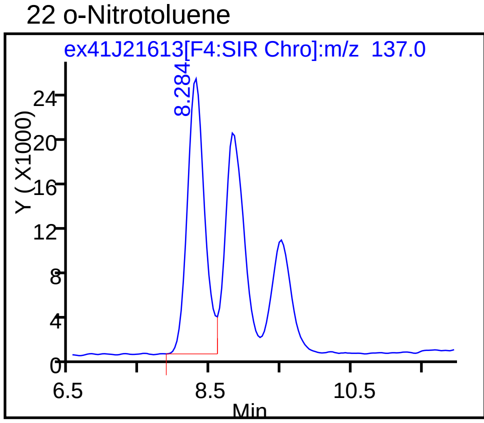
20 PETN



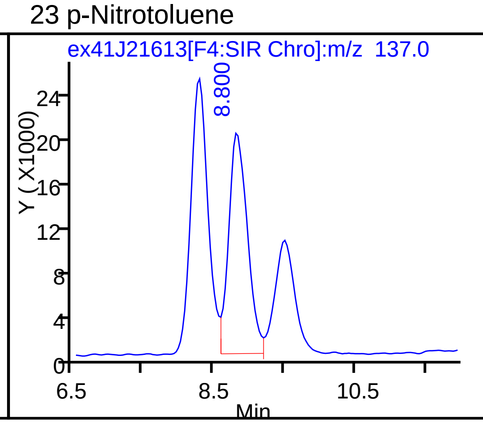
21 3,5-Dinitrotoluene



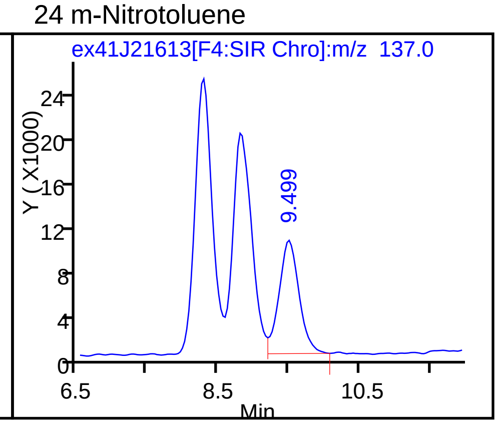
22 o-Nitrotoluene



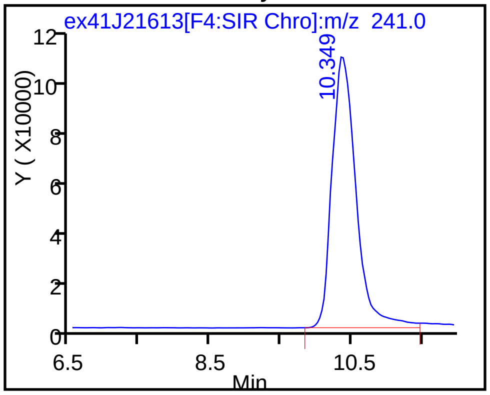
23 p-Nitrotoluene



24 m-Nitrotoluene

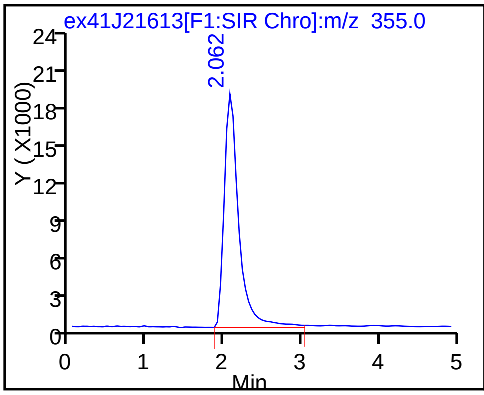


25 2,4,6-Trinitro-3-xylene

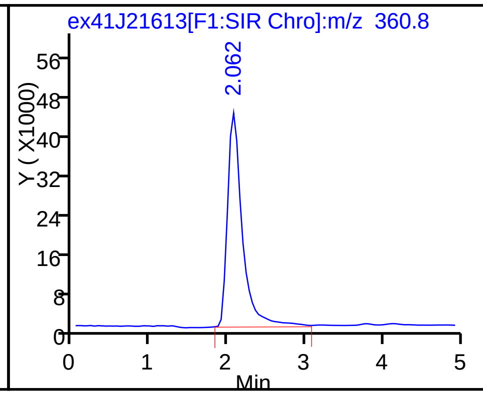


Report Date: 02-Nov-2011 06:59:06 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21613.d
Injection Date: 01-Nov-2011 23:19:56 Limit Group: LC - 8321A Expl
Client ID: Instrument ID: LC_LCMS4
Lims Batch ID: 94194 Lims Sample ID: 137
Operator ID: Injection Vol: 40.00 ul

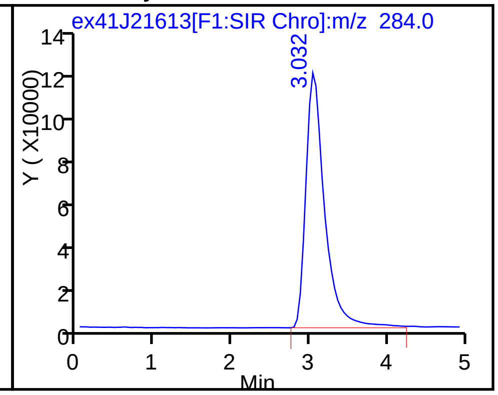
2 HMX



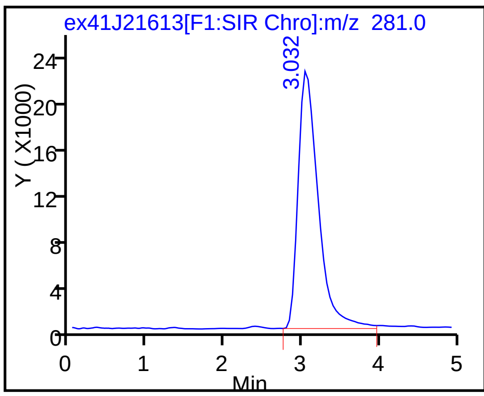
* 1 HMX-13C4



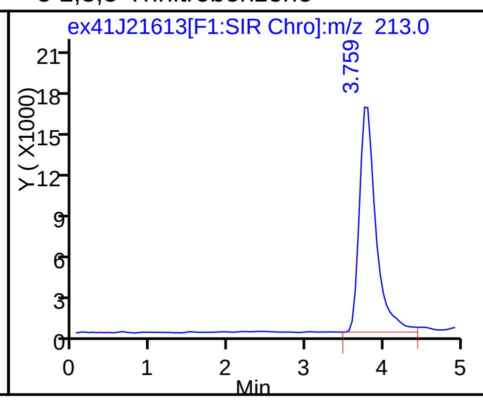
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



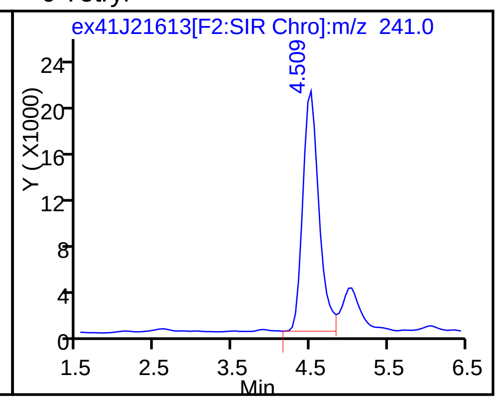
4 RDX



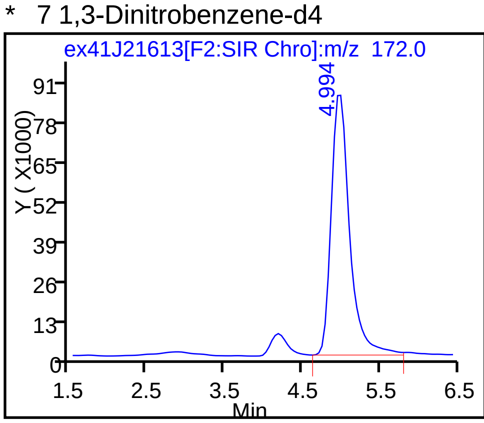
5 1,3,5-Trinitrobenzene



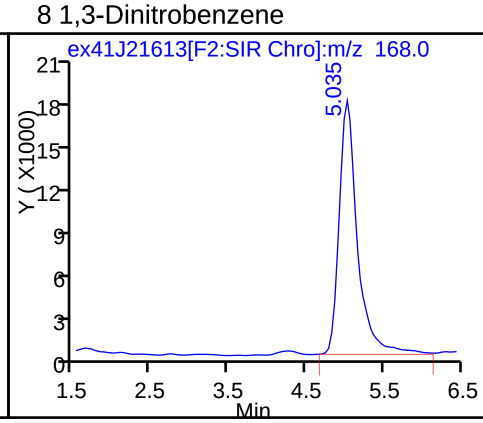
6 Tetryl



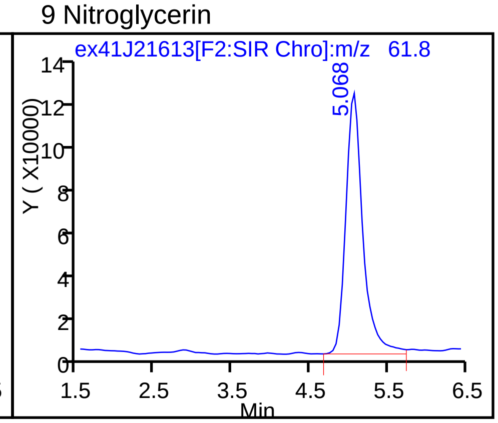
* 7 1,3-Dinitrobenzene-d4



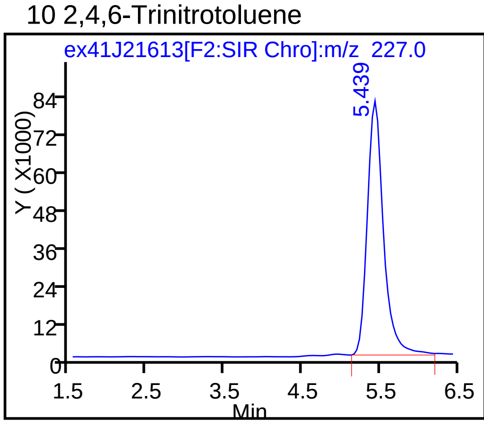
8 1,3-Dinitrobenzene



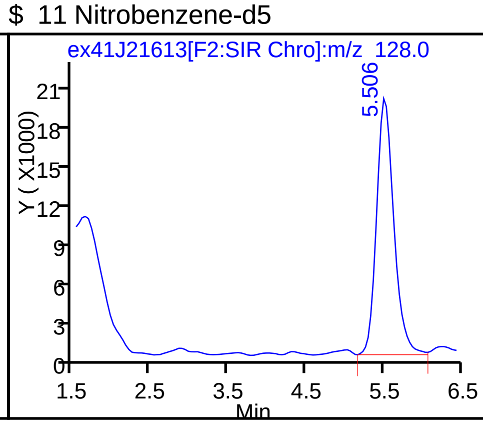
9 Nitroglycerin



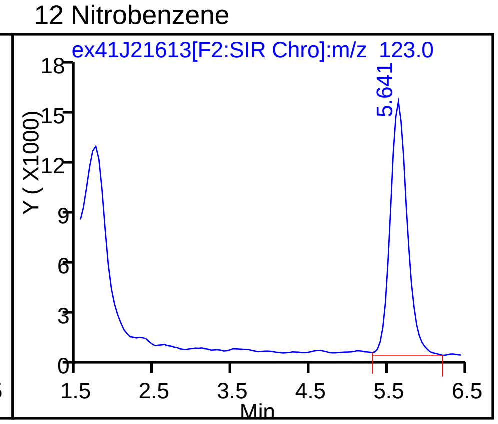
10 2,4,6-Trinitrotoluene



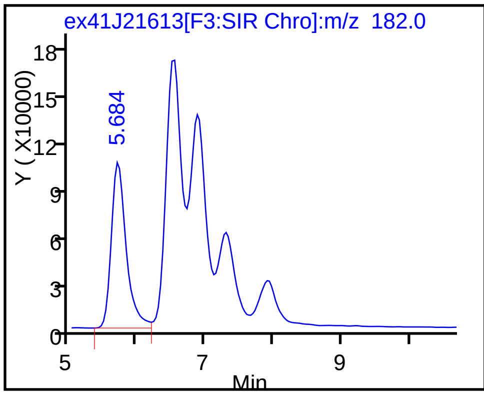
$ 11 Nitrobenzene-d5



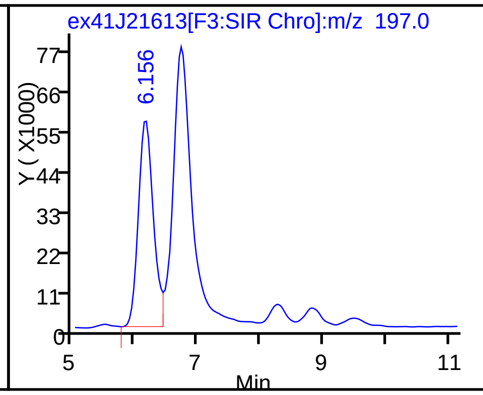
12 Nitrobenzene



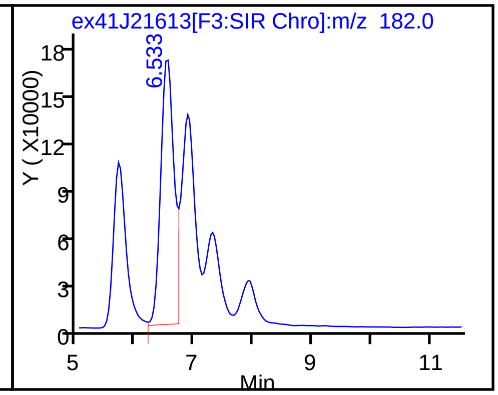
13 3,4-Dinitrotoluene



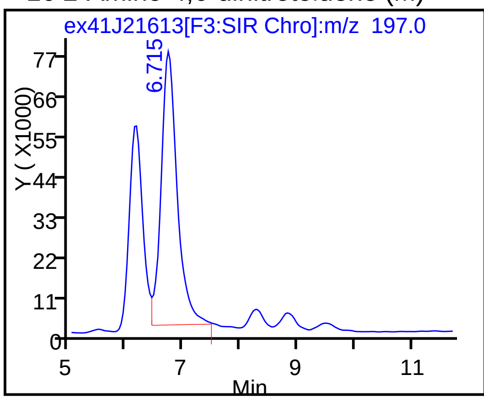
14 4-Amino-2,6-dinitrotoluene



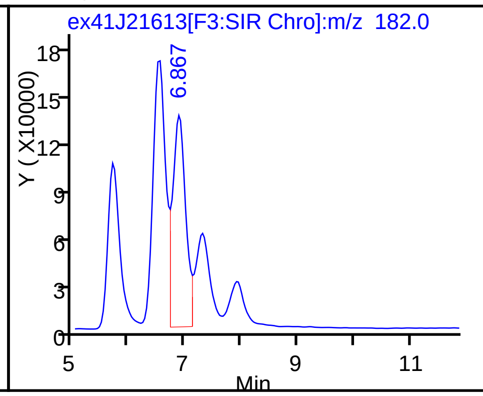
15 2,3-Dinitrotoluene



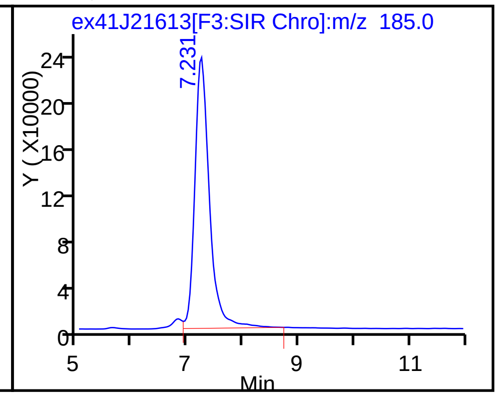
16 2-Amino-4,6-dinitrotoluene (M)



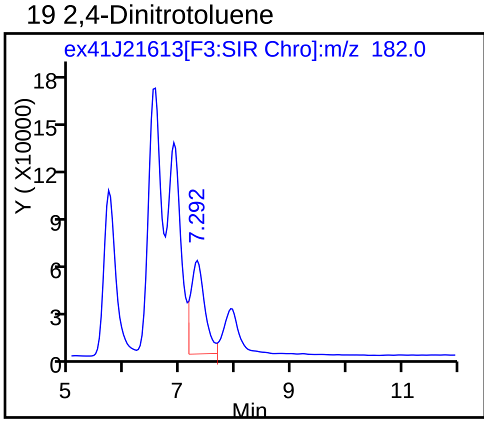
17 2,6-Dinitrotoluene



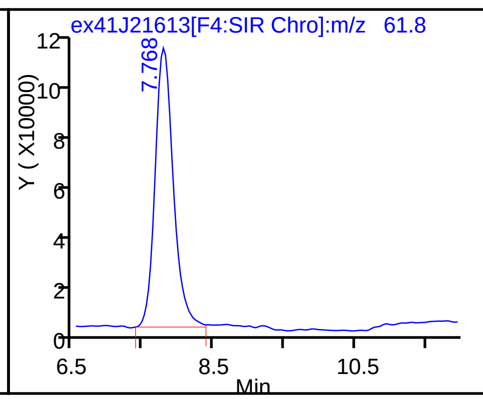
* 18 2,4-dinitrotoluene-d3



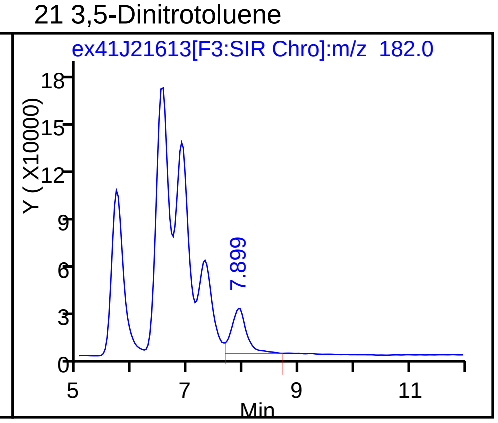
19 2,4-Dinitrotoluene



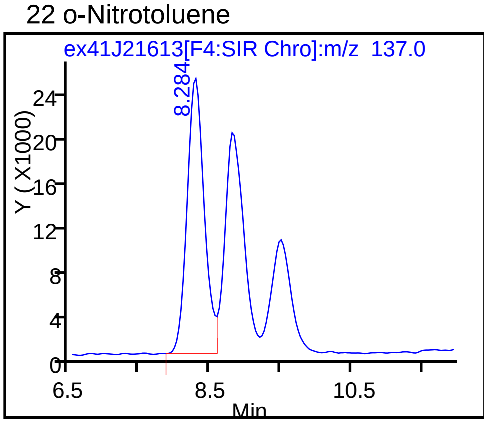
20 PETN



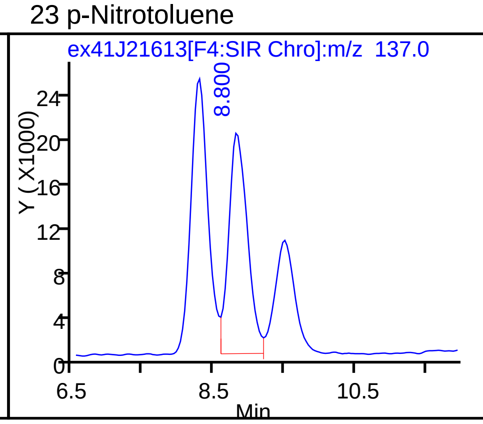
21 3,5-Dinitrotoluene



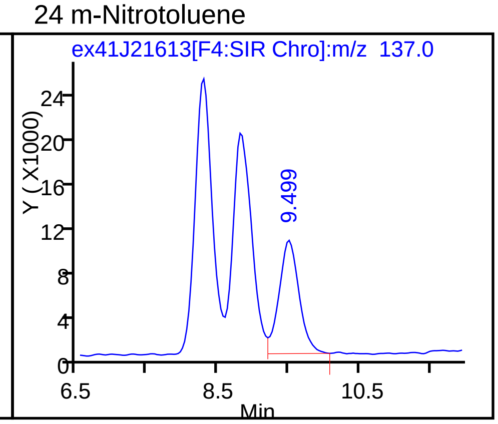
22 o-Nitrotoluene



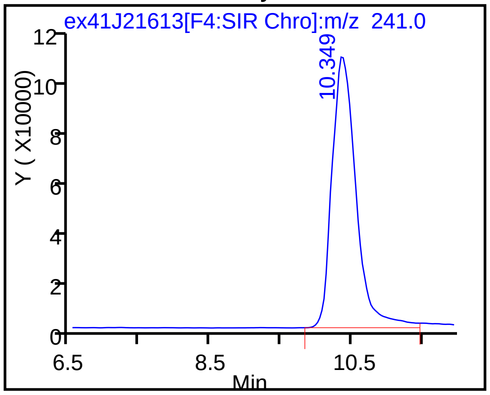
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



Report Date: 02-Nov-2011 06:59:05 | Chrom Revision: 1.2 13-Jul-2011 10:43:06

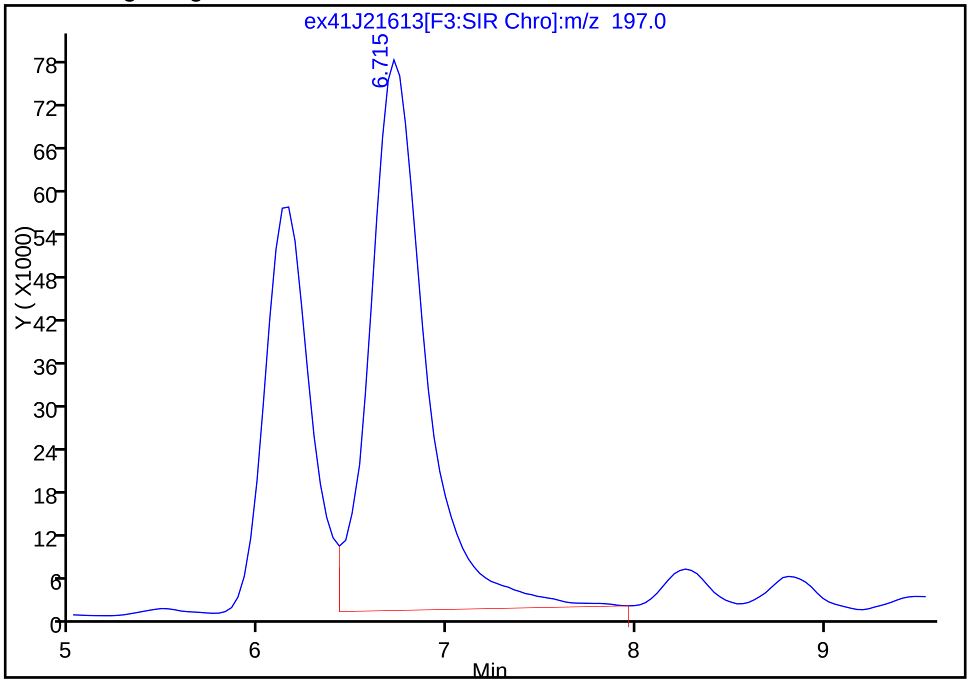
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21613.d		
Injection Date:	01-Nov-2011 23:19:56	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	137
Operator ID:		Injection Vol:	40.00 ul

16 2-Amino-4,6-dinitrotoluene, Signal: 1, m/z: 197.0 Type: quant, RT: 6.71, Det: F3:SIR

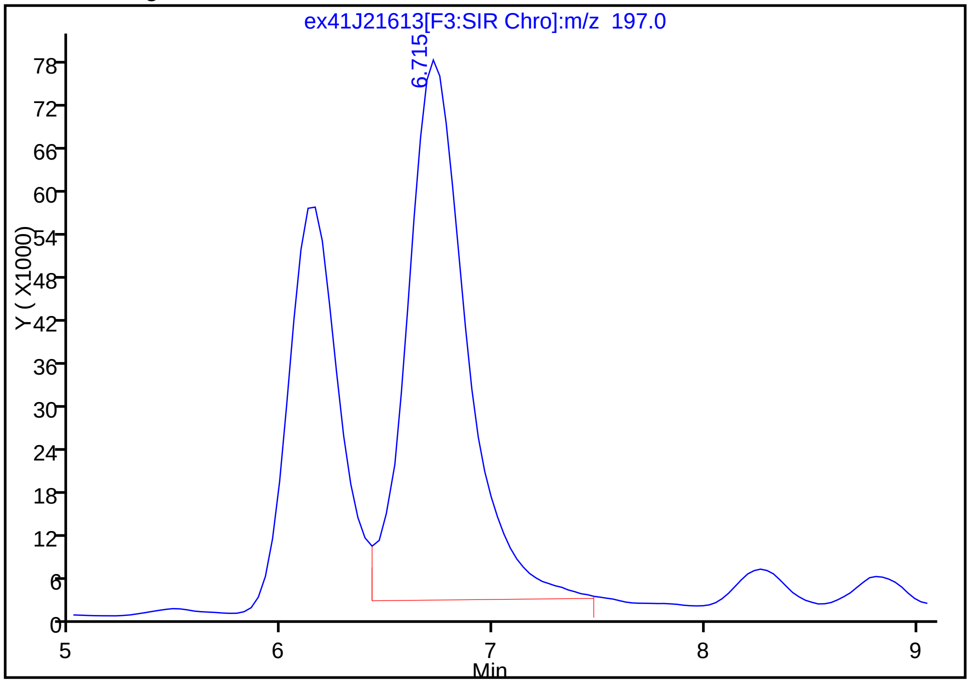
Processing Integration Results

RT: 6.71
Response: 1598861
Amount: 62.571068



Manual Integration Results

RT: 6.71
Response: 1497970
Amount: 58.602816



Reviewer: meyera, 02-Nov-2011 06:58:55
Audit Action: Manually Integrated
Audit Reason: Baseline

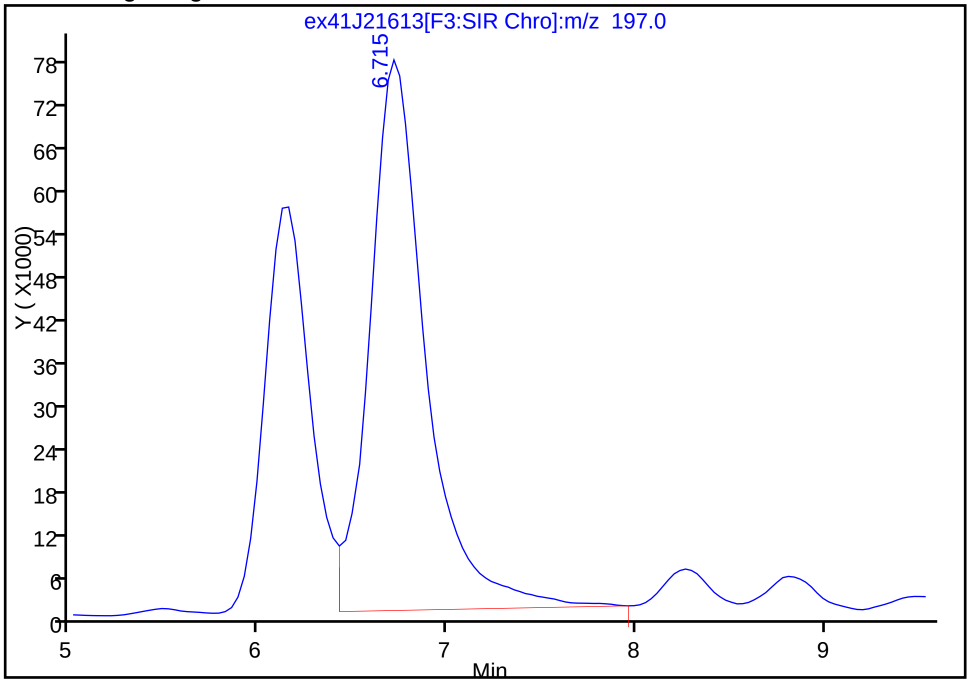
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21613.d		
Injection Date:	01-Nov-2011 23:19:56	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	137
Operator ID:		Injection Vol:	40.00 ul

16 2-Amino-4,6-dinitrotoluene, Signal: 1, m/z: 197.0 Type: quant, RT: 6.71, Det: F3:SIR

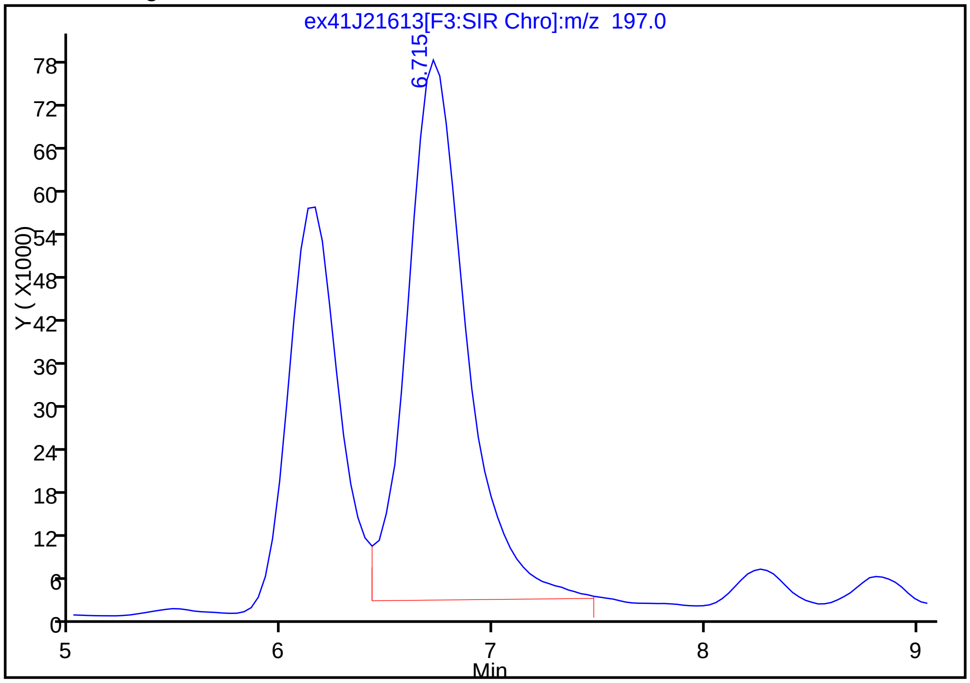
Processing Integration Results

RT: 6.71
Response: 1598861
Amount: 62.571068



Manual Integration Results

RT: 6.71
Response: 1497970
Amount: 58.602816



Reviewer: meyera, 02-Nov-2011 06:58:55
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94194/147 Calibration Date: 11/02/2011 01:36

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21623.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.309		103	100	2.9	20.0
RDX	Lin1		1.052		109	98.7	10.4	20.0
1,3,5-Trinitrobenzene	Lin1		1.203		101	100	1.1	20.0
Tetryl	Lin1		1.510		108	99.4	9.0	20.0
1,3-Dinitrobenzene	Lin1		1.206		109	101	7.2	20.0
Nitroglycerin	Lin1		7.826		116	100	16.3	30.0
2,4,6-Trinitrotoluene	Lin1		5.683		115	100	14.6	20.0
Nitrobenzene	Lin1		1.010		99.3	99.9	-0.6	20.0
3,4-Dinitrotoluene	Lin1		2.517		109	100	9.2	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.380		115	98.7	16.0	20.0
2,3-Dinitrotoluene	Lin1		3.207		106	100	5.9	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.737		119	100	18.4	20.0
2,6-Dinitrotoluene	Lin1		2.843		107	100	6.9	20.0
2,4-Dinitrotoluene	Lin1		1.391		109	100	9.0	20.0
PETN	Lin1		2.521		129	99.8	29.0	30.0
3,5-Dinitrotoluene	Lin1		0.6310		97.1	100	-2.9	30.0
2-Nitrotoluene	Lin1		0.5564		104	99.1	4.5	20.0
4-Nitrotoluene	Lin1		0.4776		100	99.5	0.7	20.0
3-Nitrotoluene	Lin1		0.3047		103	98.8	4.0	20.0
2,4,6-Trinitro-3-xylene	Lin1		11.37		103	100	2.6	30.0
Nitrobenzene-d5	Lin1		1.283		101	100	0.5	20.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21623.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	02-Nov-2011 01:36:12	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX5 CCV 100 ug/L 280-0002689-147		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	94194	Lims Sample ID:	147
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:24	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	488384	102.9			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		528775	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1882015	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	781637	109.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	561344	101.2			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	699267	108.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1205708	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.034	0.000	1.008	569993	108.7			
9 Nitroglycerin										
2	61.8	5.034	5.034	0.000	1.008	3646978	116.3			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.089	2650914	114.7			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	597958	100.5			
12 Nitrobenzene										
2	123.0	5.640	5.640	0.000	1.129	470443	99.3			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.791	3623469	109.2			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1959587	114.5			

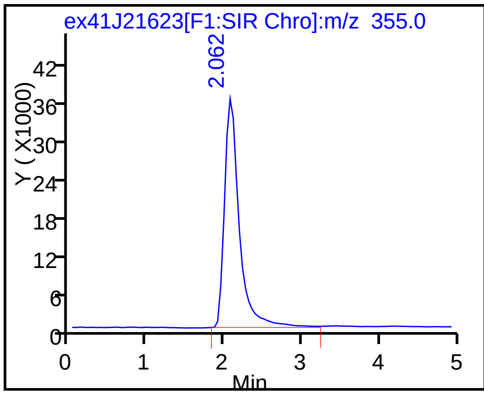
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.898	4614639	105.9			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.924	2501737	118.5			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.950	4095934	107.0			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3597600	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	2007912	109.3			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3620794	128.7			
21 3,5-Dinitrotoluene										
3	182.0	7.899	7.899	0.000	1.092	908029	97.1			
22 o-Nitrotoluene										
4	137.0	8.284	8.284	0.000	1.000	793424	103.6			
23 p-Nitrotoluene										
4	137.0	8.830	8.830	0.000	1.000	683850	100.2			
24 m-Nitrotoluene										
4	137.0	9.499	9.499	0.000	1.000	433230	102.8			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.379	10.379	0.000	1.000	5299093	102.6			

Report Date: 02-Nov-2011 06:54:25 | Chrom Revision: 1.2 13-Jul-2011 10:43:06

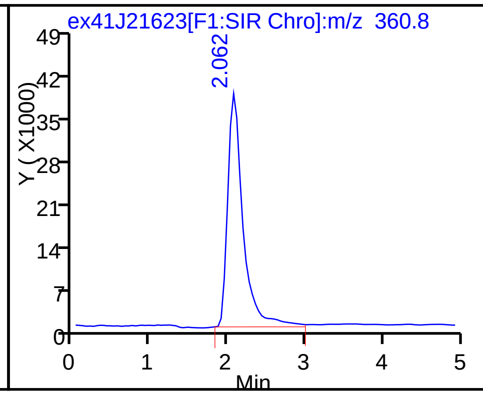
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21623.d

Injection Date:	02-Nov-2011 01:36:12	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	147
Operator ID:		Injection Vol:	40.00 ul

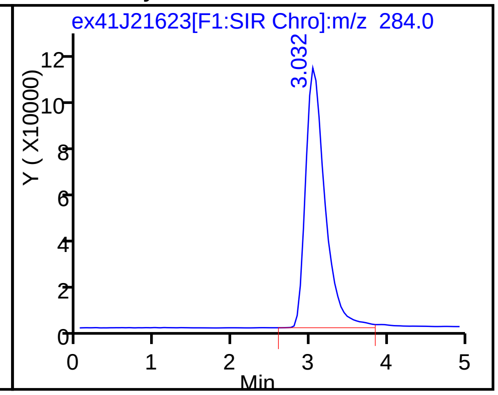
2 HMX



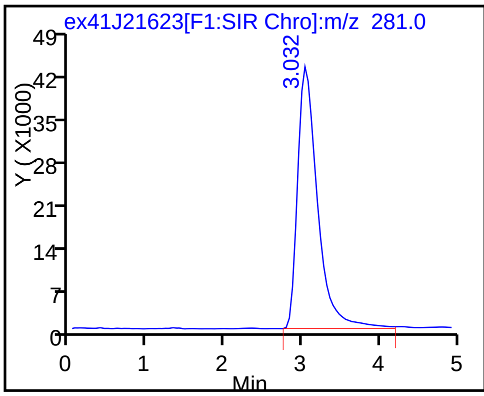
* 1 HMX-13C4



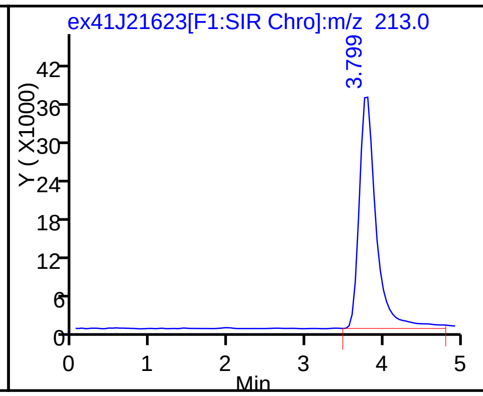
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



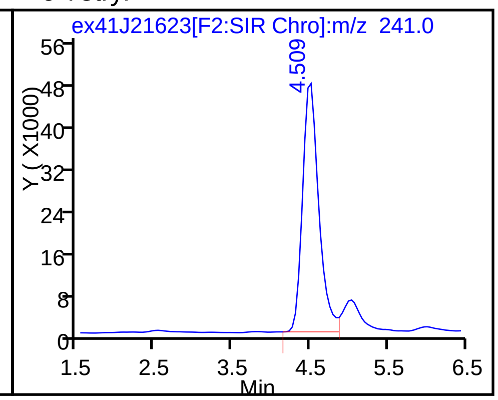
4 RDX



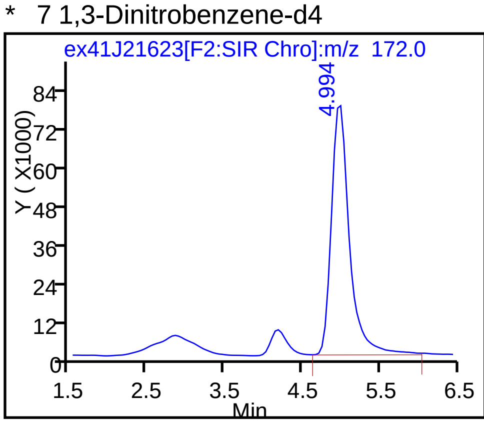
5 1,3,5-Trinitrobenzene



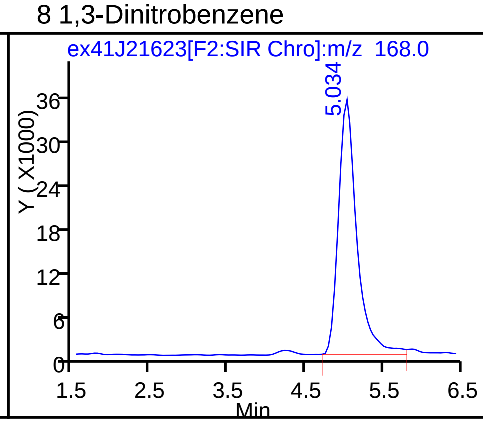
6 Tetryl



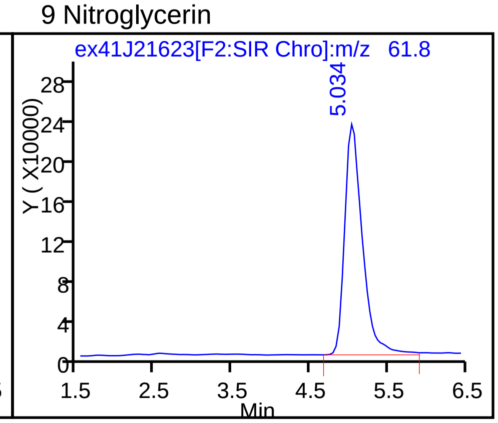
* 7 1,3-Dinitrobenzene-d4



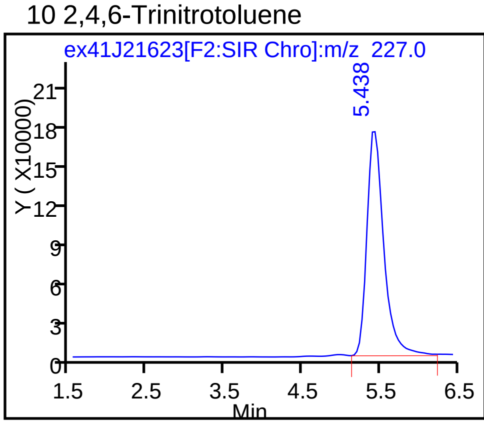
8 1,3-Dinitrobenzene



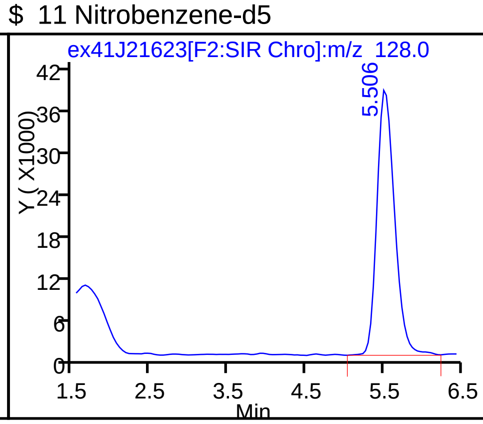
9 Nitroglycerin



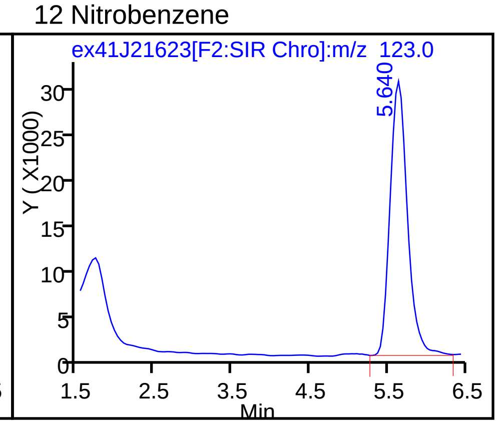
10 2,4,6-Trinitrotoluene



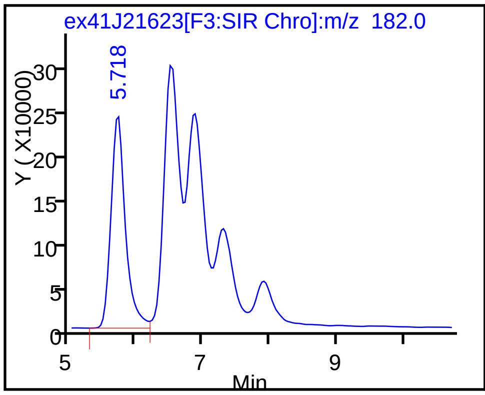
$ 11 Nitrobenzene-d5



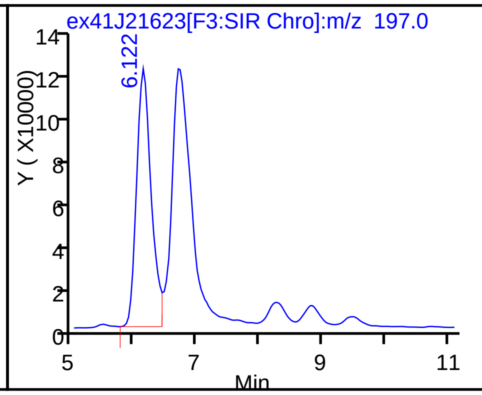
12 Nitrobenzene



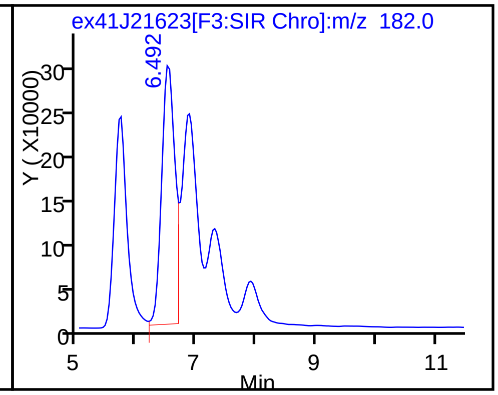
13 3,4-Dinitrotoluene



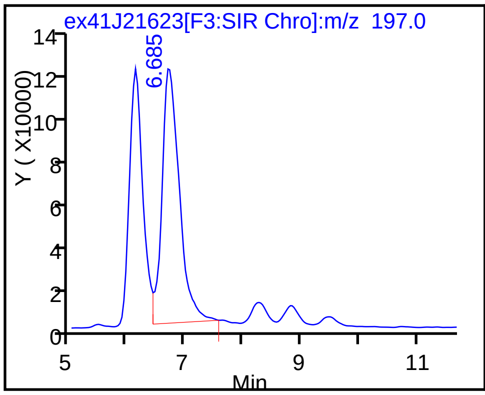
14 4-Amino-2,6-dinitrotoluene



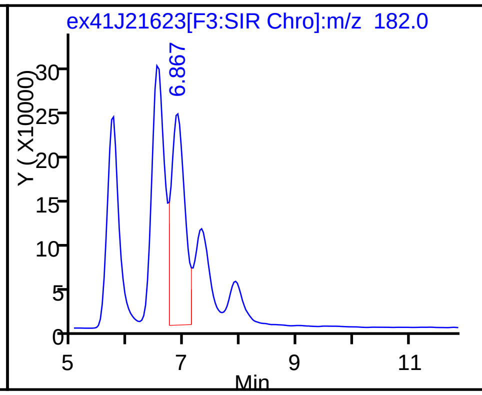
15 2,3-Dinitrotoluene



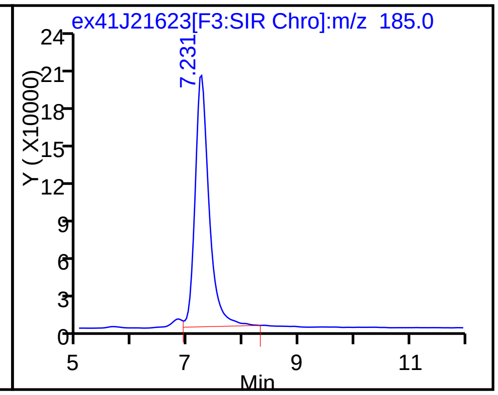
16 2-Amino-4,6-dinitrotoluene



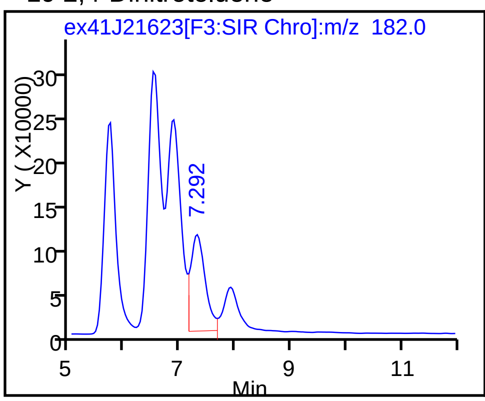
17 2,6-Dinitrotoluene



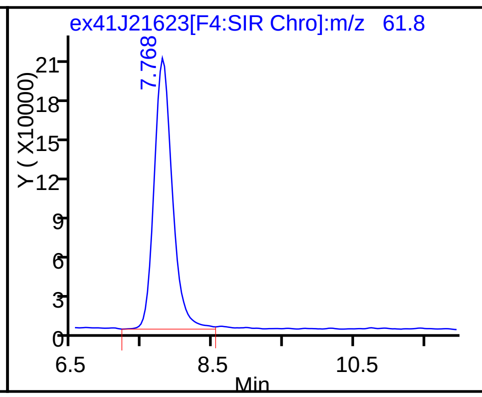
* 18 2,4-dinitrotoluene-d3



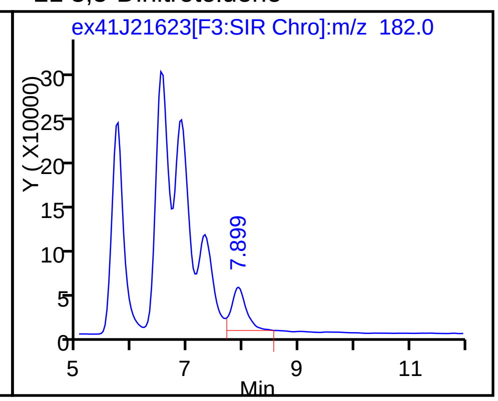
19 2,4-Dinitrotoluene



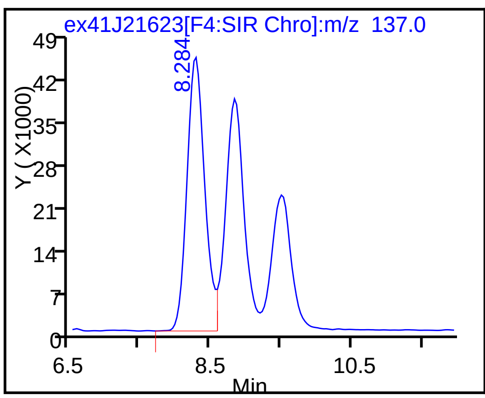
20 PETN



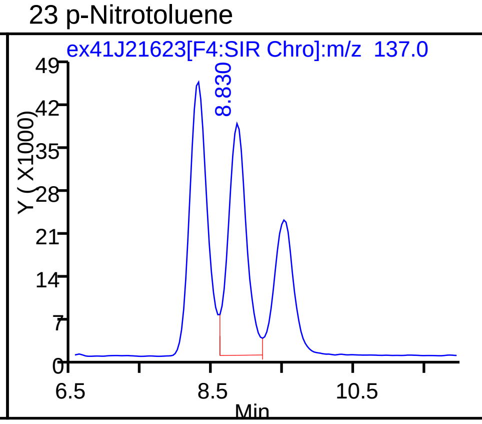
21 3,5-Dinitrotoluene



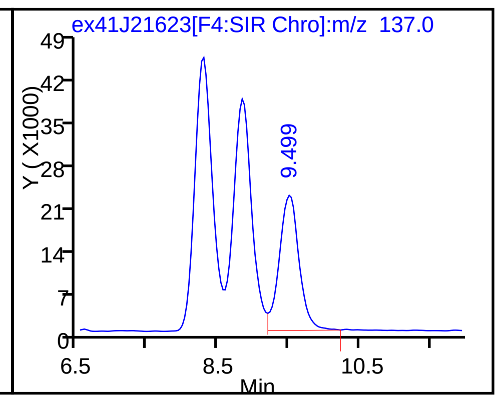
22 o-Nitrotoluene



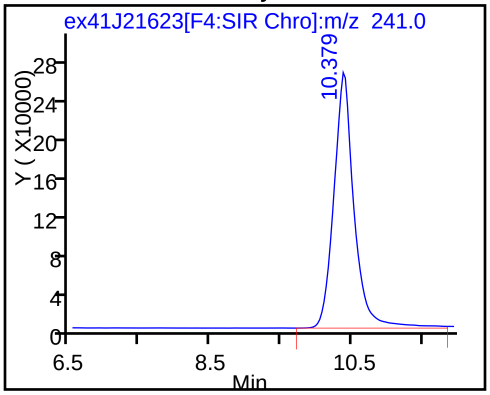
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94194/156   Calibration Date: 11/02/2011 03:38

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21632.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.152		48.4	50.0	-3.2	20.0
RDX	Lin1		0.9814		50.7	49.4	2.7	20.0
1,3,5-Trinitrobenzene	Lin1		1.137		49.1	50.1	-1.9	20.0
Tetryl	Lin1		1.433		52.4	49.7	5.4	20.0
1,3-Dinitrobenzene	Lin1		1.189		53.8	50.7	6.1	20.0
Nitroglycerin	Lin1		7.277		54.7	50.0	9.4	30.0
2,4,6-Trinitrotoluene	Lin1		4.919		50.0	50.1	-0.1	20.0
Nitrobenzene	Lin1		1.011		49.8	50.0	-0.3	20.0
3,4-Dinitrotoluene	Lin1		2.248		48.7	50.0	-2.6	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.143		47.5	49.4	-3.7	20.0
2,3-Dinitrotoluene	Lin1		2.838		46.7	50.0	-6.6	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.505		51.2	50.1	2.3	20.0
2,6-Dinitrotoluene	Lin1		2.720		51.2	50.1	2.3	20.0
2,4-Dinitrotoluene	Lin1		1.210		47.6	50.2	-5.1	20.0
PETN	Lin1		2.273		56.9	49.9	14.0	30.0
3,5-Dinitrotoluene	Lin1		0.5847		45.6	50.0	-8.8	30.0
2-Nitrotoluene	Lin1		0.4943		45.9	49.6	-7.4	20.0
4-Nitrotoluene	Lin1		0.4054		42.7	49.8	-14.2	20.0
3-Nitrotoluene	Lin1		0.2604		43.8	49.4	-11.3	20.0
2,4,6-Trinitro-3-xylene	Lin1		11.08		50.0	50.0	0.0	30.0
Nitrobenzene-d5	Lin1		1.285		50.1	50.0	0.2	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21632.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	02-Nov-2011 03:38:50	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX4 CCV 50 ug/L 280-0002689-156		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94194	Lims Sample ID:	156
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:31	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	282251	48.4			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		655711	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2033989	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	394053	50.7			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	265462	49.1			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	332256	52.4			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1206795	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	281078	53.8			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	1697139	54.7			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	1148293	50.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	299841	50.1			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	235496	49.8			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.789	1751841	48.7			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.850	878745	47.5			

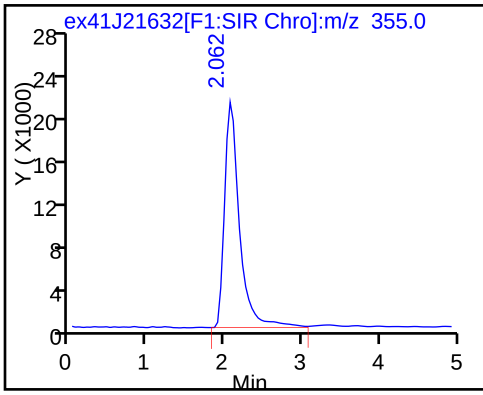
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.902	2210254	46.7			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.932	1173236	51.2			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	2120975	51.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		3895156	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.013	945144	47.6			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	1766881	56.9			
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.869	0.000	1.093	455515	45.6			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	381619	45.9			
23 p-Nitrotoluene										
4	137.0	8.831	8.831	0.000	1.000	314246	42.7			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	200406	43.8			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.379	10.379	0.000	1.000	2582979	50.0			

Report Date: 02-Nov-2011 06:54:31 | Chrom Revision: 1.2 13-Jul-2011 10:43:06

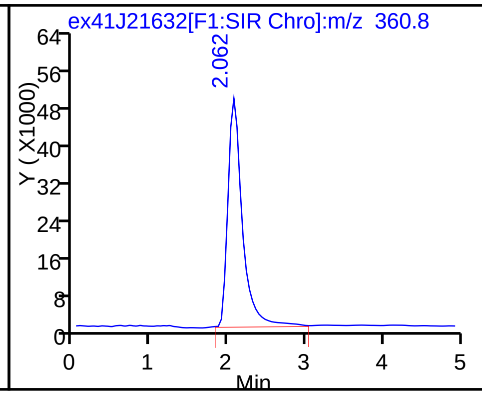
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21632.d

Injection Date:	02-Nov-2011 03:38:50	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	156
Operator ID:		Injection Vol:	40.00 ul

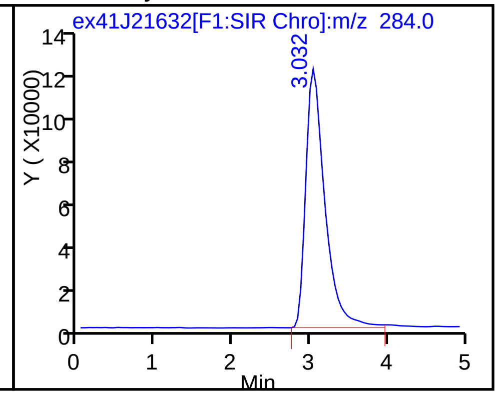
2 HMX



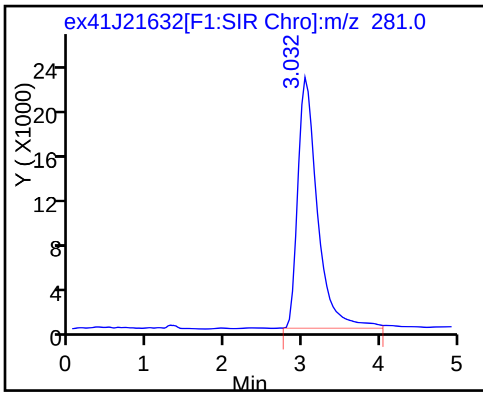
* 1 HMX-13C4



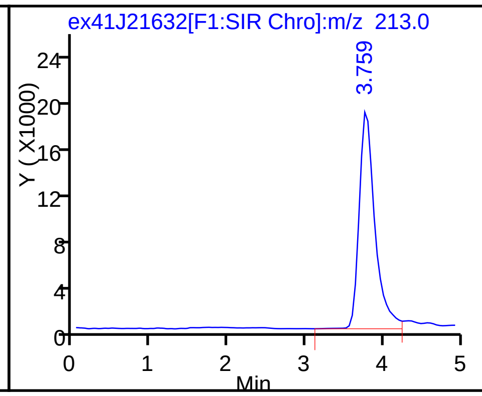
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



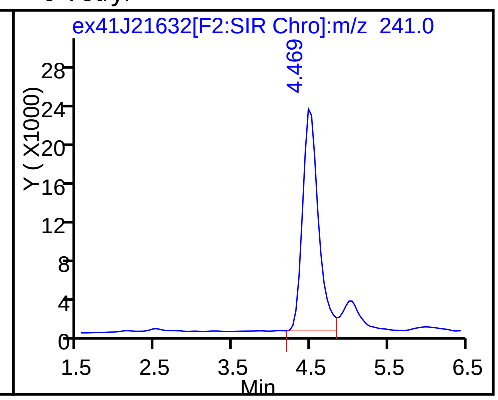
4 RDX



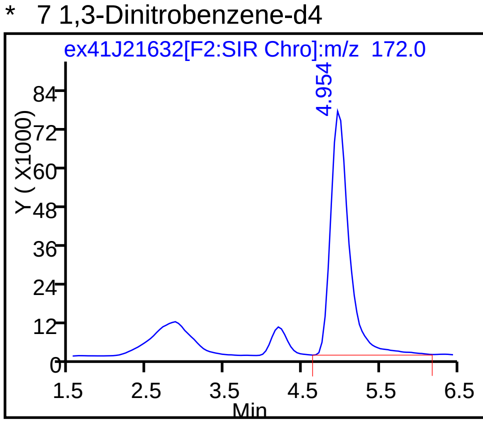
5 1,3,5-Trinitrobenzene



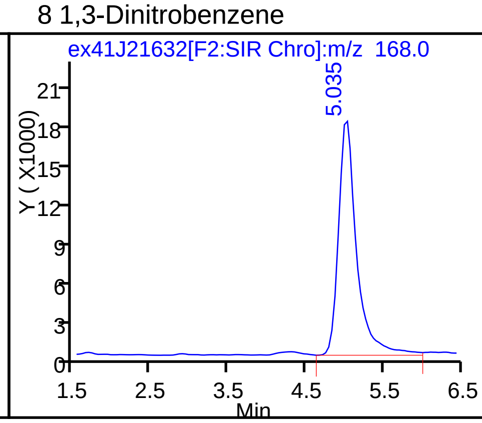
6 Tetryl



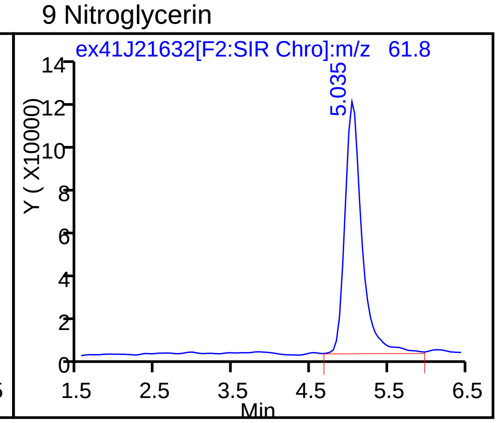
* 7 1,3-Dinitrobenzene-d4



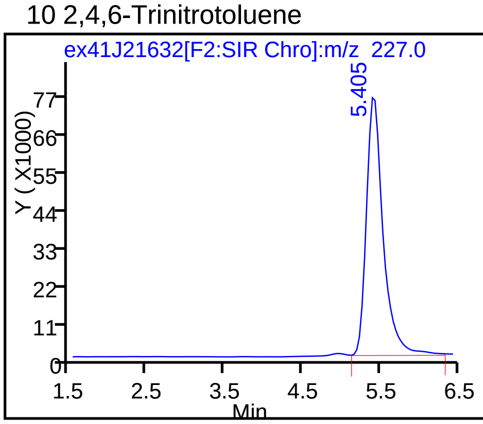
8 1,3-Dinitrobenzene



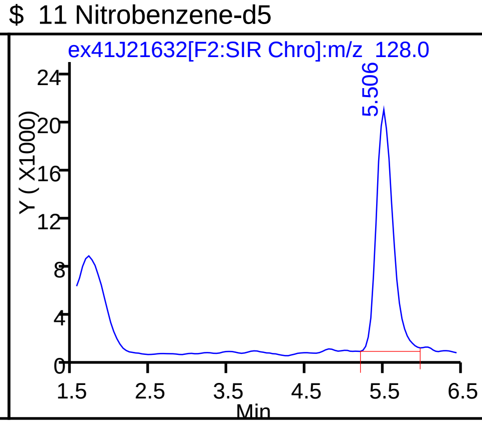
9 Nitroglycerin



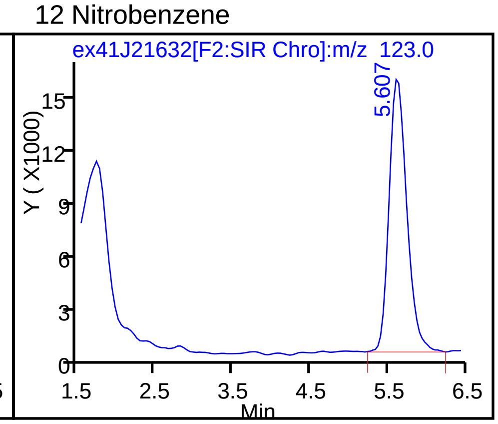
10 2,4,6-Trinitrotoluene



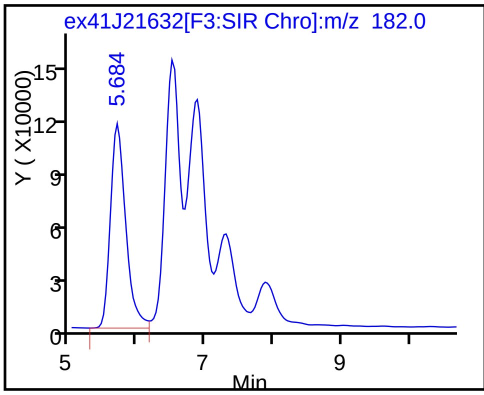
$ 11 Nitrobenzene-d5



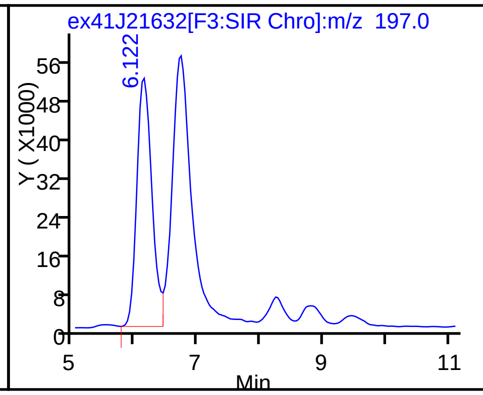
12 Nitrobenzene



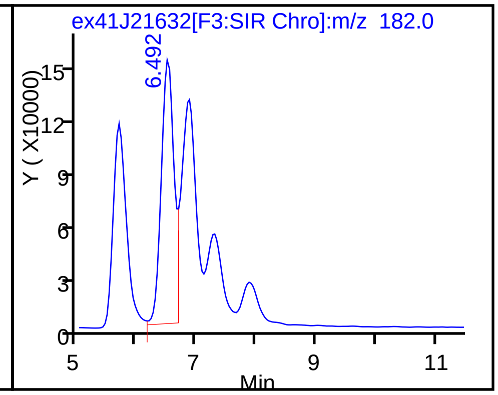
13 3,4-Dinitrotoluene



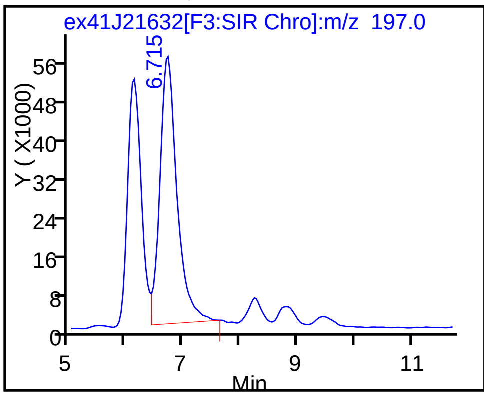
14 4-Amino-2,6-dinitrotoluene



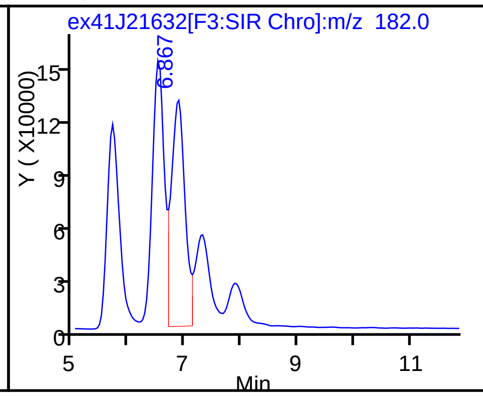
15 2,3-Dinitrotoluene



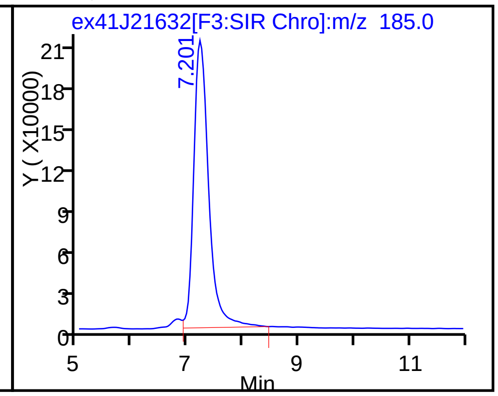
16 2-Amino-4,6-dinitrotoluene



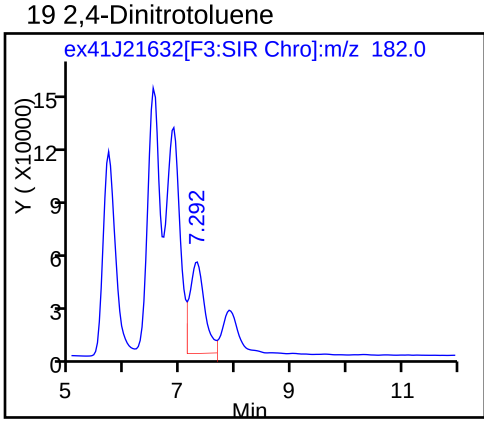
17 2,6-Dinitrotoluene



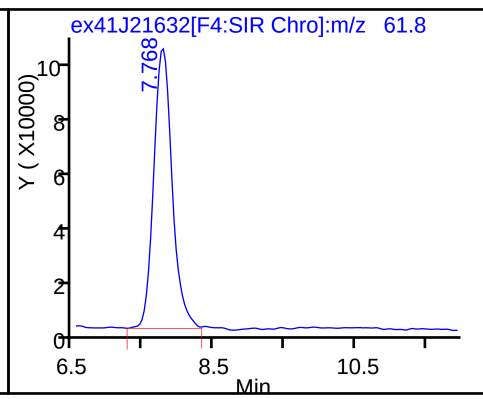
* 18 2,4-dinitrotoluene-d3



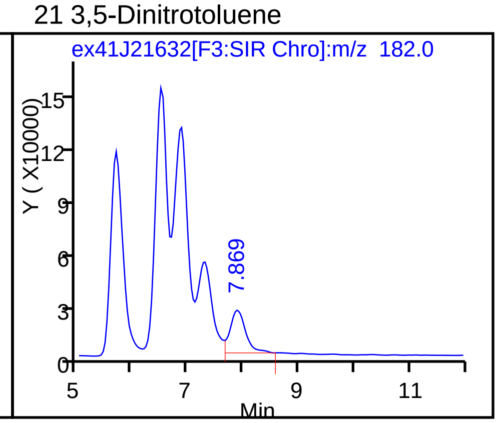
19 2,4-Dinitrotoluene



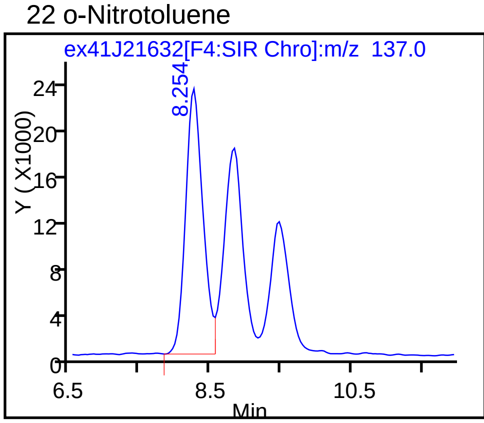
20 PETN



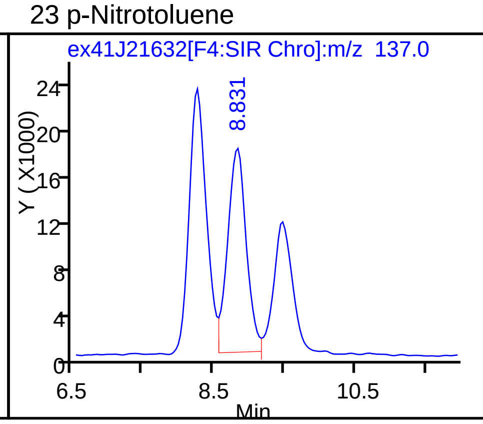
21 3,5-Dinitrotoluene



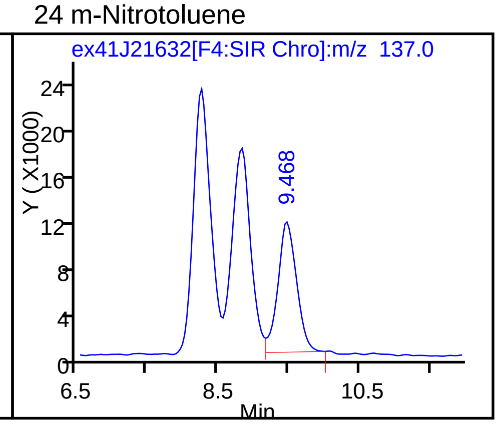
22 o-Nitrotoluene



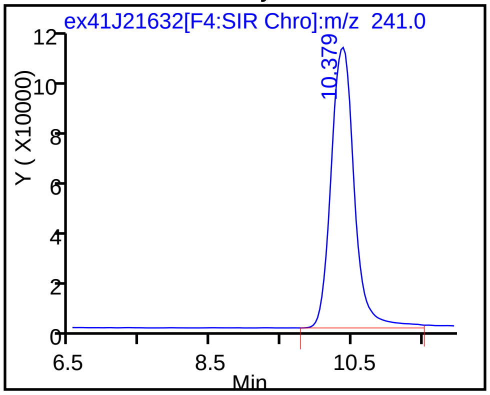
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94194/164   Calibration Date: 11/02/2011 05:28

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21640.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.396		107	100	6.8	20.0
RDX	Lin1		1.067		111	98.7	12.1	20.0
1,3,5-Trinitrobenzene	Lin1		1.276		107	100	7.1	20.0
Tetryl	Lin1		1.454		104	99.4	5.0	20.0
1,3-Dinitrobenzene	Lin1		1.286		116	101	14.3	20.0
Nitroglycerin	Lin1		7.155		107	100	6.5	30.0
2,4,6-Trinitrotoluene	Lin1		5.140		104	100	3.7	20.0
Nitrobenzene	Lin1		0.9486		93.3	99.9	-6.6	20.0
3,4-Dinitrotoluene	Lin1		2.486		108	100	7.9	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.306		108	98.7	9.8	20.0
2,3-Dinitrotoluene	Lin1		3.315		110	100	9.5	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.746		119	100	19.1	20.0
2,6-Dinitrotoluene	Lin1		2.616		98.4	100	-1.7	20.0
2,4-Dinitrotoluene	Lin1		1.420		112	100	11.3	20.0
PETN	Lin1		2.319		118	99.8	18.5	30.0
3,5-Dinitrotoluene	Lin1		0.7411		114	100	13.8	30.0
2-Nitrotoluene	Lin1		0.6299		117	99.1	18.5	20.0
4-Nitrotoluene	Lin1		0.4994		105	99.5	5.3	20.0
3-Nitrotoluene	Lin1		0.3192		108	98.8	9.0	20.0
2,4,6-Trinitro-3-xylene	Lin1		11.22		101	100	1.3	30.0
Nitrobenzene-d5	Lin1		1.244		97.5	100	-2.5	20.0

FORM VII 8321B

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94252/164   Calibration Date: 11/02/2011 05:28

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21640.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.396		107	100	6.8	20.0
RDX	Lin1		1.067		111	98.7	12.1	20.0
1,3,5-Trinitrobenzene	Lin1		1.276		107	100	7.1	20.0
Tetryl	Lin1		1.454		104	99.4	5.0	20.0
1,3-Dinitrobenzene	Lin1		1.286		116	101	14.3	20.0
Nitroglycerin	Lin1		7.155		107	100	6.5	30.0
2,4,6-Trinitrotoluene	Lin1		5.140		104	100	3.7	20.0
Nitrobenzene	Lin1		0.9486		93.3	99.9	-6.6	20.0
3,4-Dinitrotoluene	Lin1		2.486		108	100	7.9	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.306		108	98.7	9.8	20.0
2,3-Dinitrotoluene	Lin1		3.315		110	100	9.5	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.746		119	100	19.1	20.0
2,6-Dinitrotoluene	Lin1		2.616		98.4	100	-1.7	20.0
2,4-Dinitrotoluene	Lin1		1.420		112	100	11.3	20.0
PETN	Lin1		2.319		118	99.8	18.5	30.0
3,5-Dinitrotoluene	Lin1		0.7411		114	100	13.8	30.0
2-Nitrotoluene	Lin1		0.6299		117	99.1	18.5	20.0
4-Nitrotoluene	Lin1		0.4994		105	99.5	5.3	20.0
3-Nitrotoluene	Lin1		0.3192		108	98.8	9.0	20.0
2,4,6-Trinitro-3-xylene	Lin1		11.22		101	100	1.3	30.0
Nitrobenzene-d5	Lin1		1.244		97.5	100	-2.5	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21640.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	02-Nov-2011 05:28:09	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX5 CCV 100 ug/L 280-0002689-164		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	94194	Lims Sample ID:	164
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:55:57	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:55:57

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	478048	106.8			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		498886	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1859604	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	783641	110.6			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	608338	107.2			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	688432	104.4			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1232467	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.034	0.000	1.016	621383	115.9			
9 Nitroglycerin										
2	61.8	5.034	5.034	0.000	1.016	3408637	106.5			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.098	2451004	103.8			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	592821	97.5			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	451415	93.3			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.786	3445443	107.9			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1786313	108.4			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.898	4592573	109.5			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.924	2422079	119.2			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.945	3628501	98.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3464165	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.004	1974235	111.6			
20 PETN										M
4	61.8	7.737	7.737	0.000	1.000	3207570	118.3			M
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.869	0.000	1.088	1026929	113.8			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	864938	117.4			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	688579	104.8			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	436951	107.7			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.349	10.349	0.000	1.000	5346686	101.3			

QC Flag Legend

Review Flags
M - Manually Integrated

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21640.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	02-Nov-2011 05:28:09	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX5 CCV 100 ug/L 280-0002689-164		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	94252	Lims Sample ID:	164
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:55:57	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 02-Nov-2011 06:55:57

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	478048	106.8			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		498886	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1859604	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	783641	110.6			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	608338	107.2			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	688432	104.4			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1232467	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.034	0.000	1.016	621383	115.9			
9 Nitroglycerin										
2	61.8	5.034	5.034	0.000	1.016	3408637	106.5			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.098	2451004	103.8			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	592821	97.5			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	451415	93.3			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.786	3445443	107.9			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1786313	108.4			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.898	4592573	109.5			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.924	2422079	119.2			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.945	3628501	98.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3464165	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.004	1974235	111.6			
20 PETN										M
4	61.8	7.737	7.737	0.000	1.000	3207570	118.3			M
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.869	0.000	1.088	1026929	113.8			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	864938	117.4			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	688579	104.8			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	436951	107.7			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.349	10.349	0.000	1.000	5346686	101.3			

QC Flag Legend

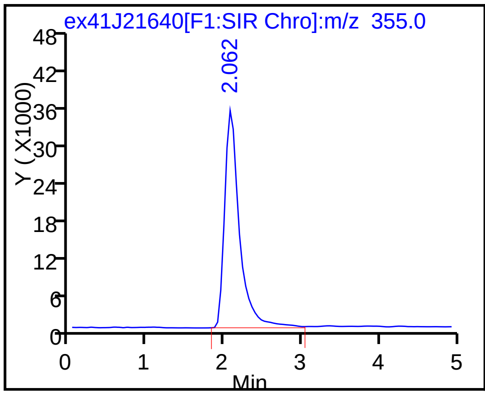
Review Flags
M - Manually Integrated

Report Date: 02-Nov-2011 06:55:58 Chrom Revision: 1.2 13-Jul-2011 10:43:06

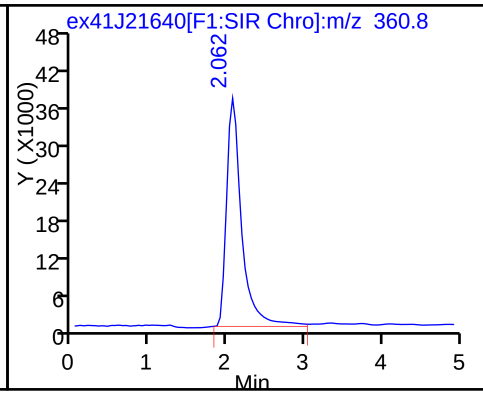
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21640.d

Injection Date:	02-Nov-2011 05:28:09	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	164
Operator ID:		Injection Vol:	40.00 ul

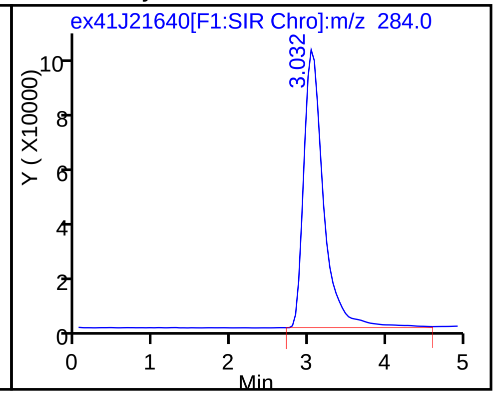
2 HMX



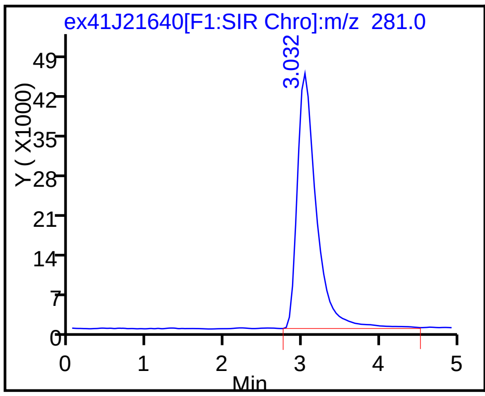
* 1 HMX-13C4



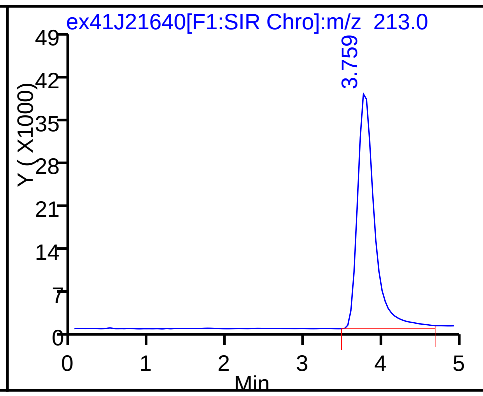
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



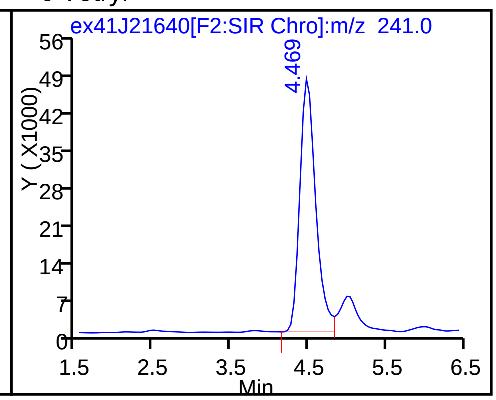
4 RDX



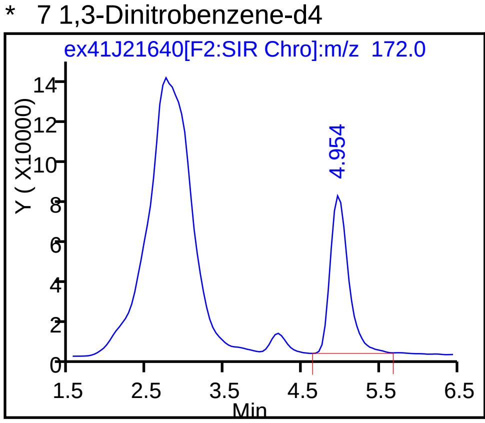
5 1,3,5-Trinitrobenzene



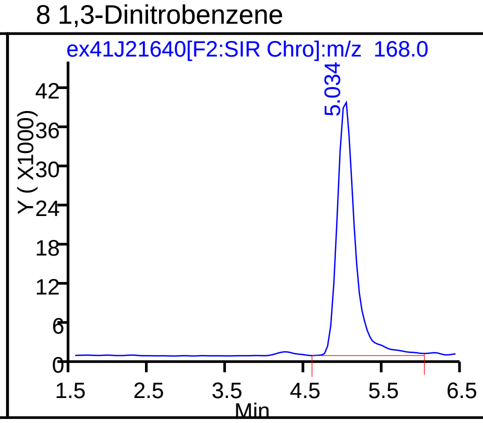
6 Tetryl



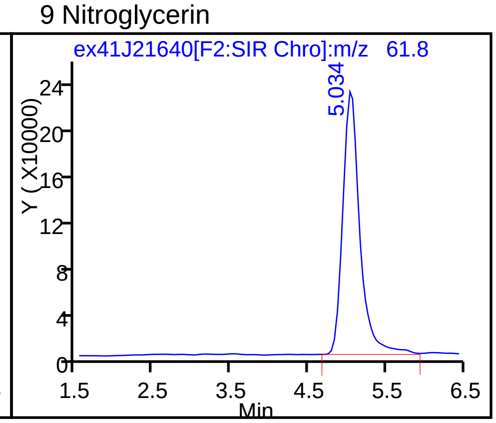
* 7 1,3-Dinitrobenzene-d4



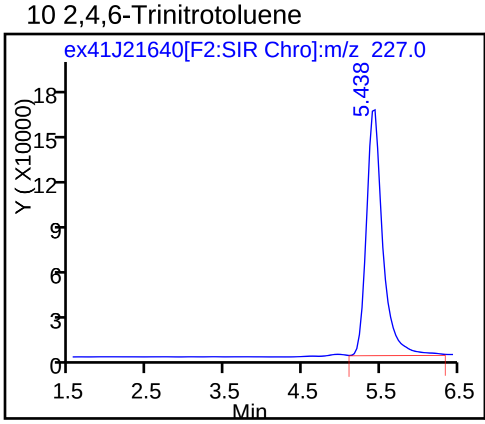
8 1,3-Dinitrobenzene



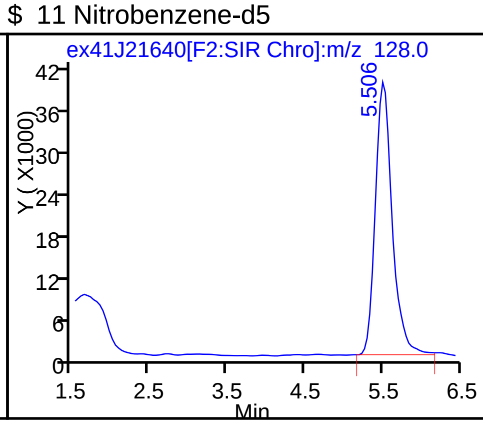
9 Nitroglycerin



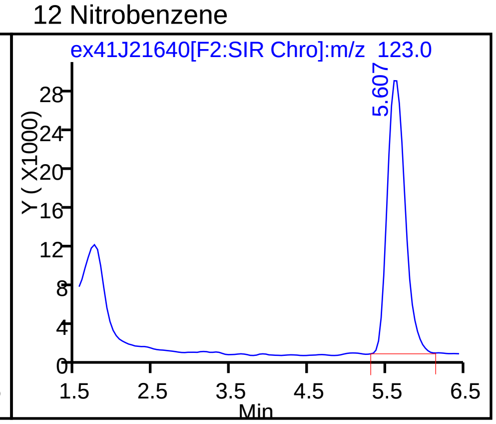
10 2,4,6-Trinitrotoluene



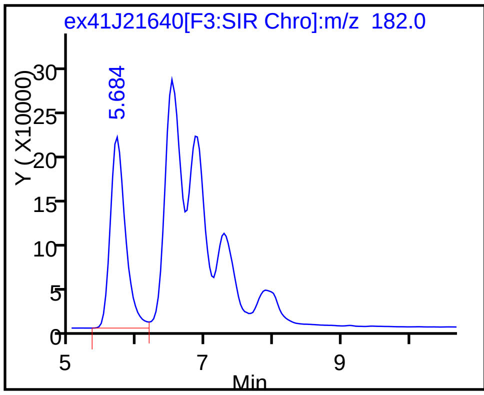
$ 11 Nitrobenzene-d5



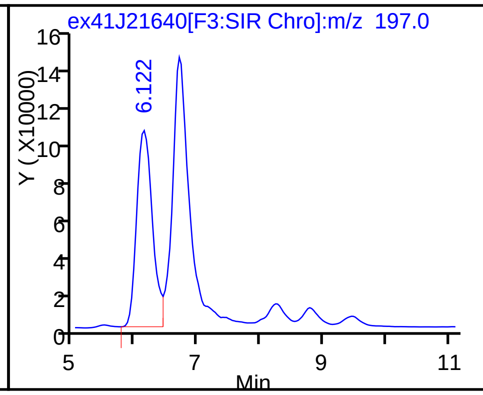
12 Nitrobenzene



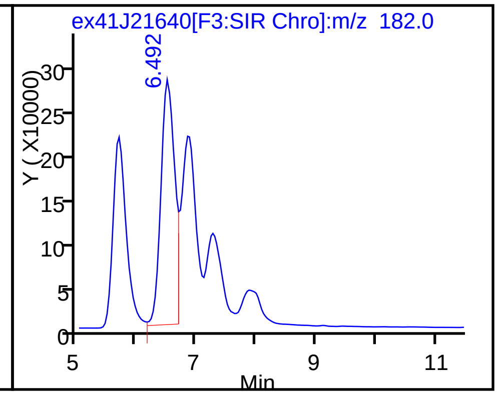
13 3,4-Dinitrotoluene



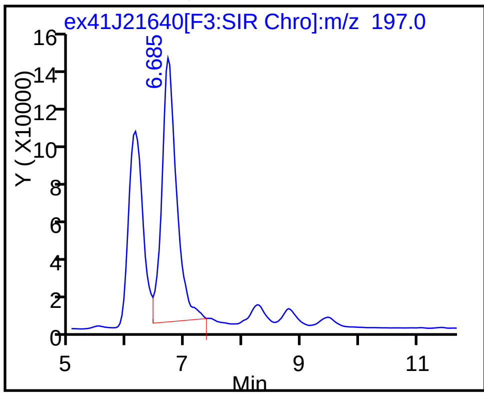
14 4-Amino-2,6-dinitrotoluene



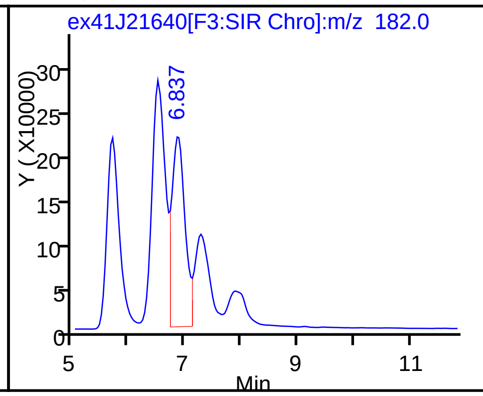
15 2,3-Dinitrotoluene



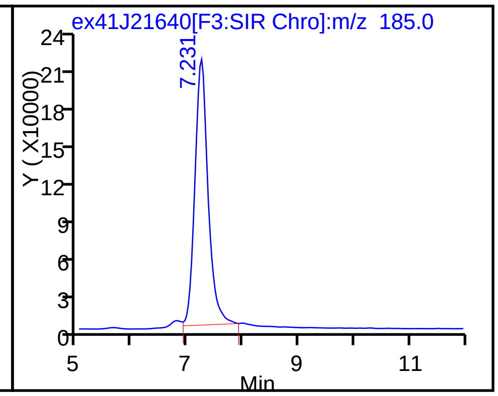
16 2-Amino-4,6-dinitrotoluene



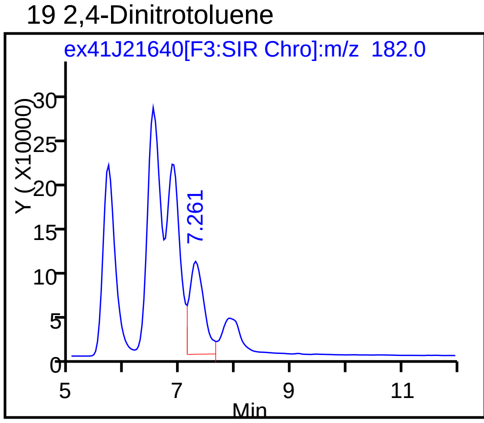
17 2,6-Dinitrotoluene



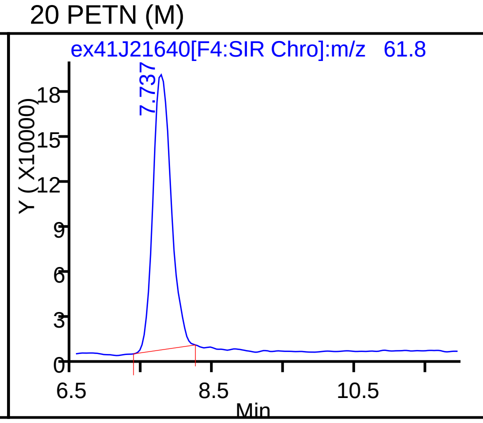
* 18 2,4-dinitrotoluene-d3



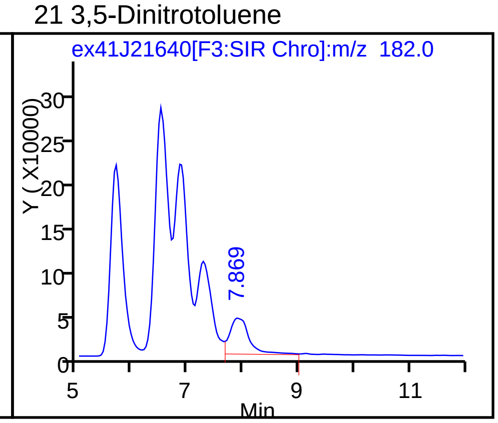
19 2,4-Dinitrotoluene



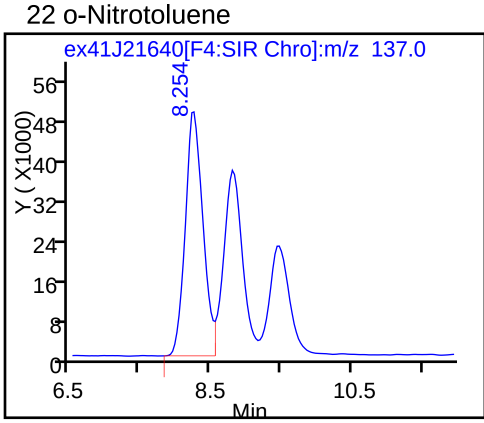
20 PETN (M)



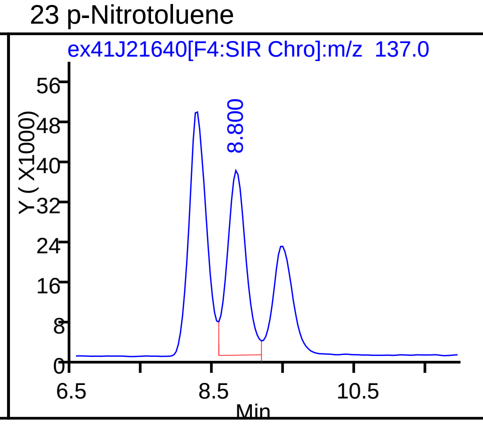
21 3,5-Dinitrotoluene



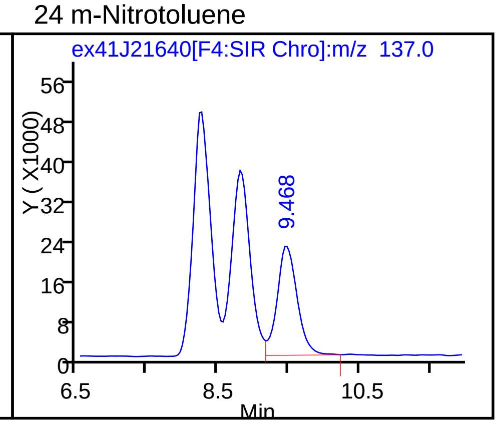
22 o-Nitrotoluene



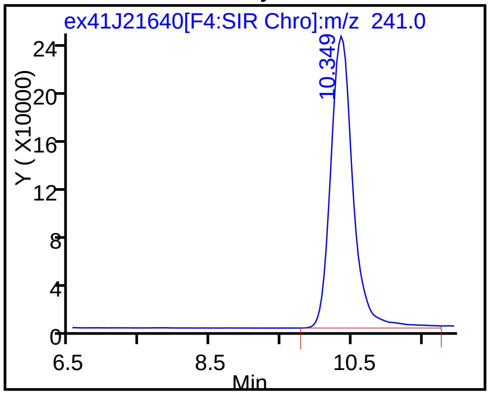
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene

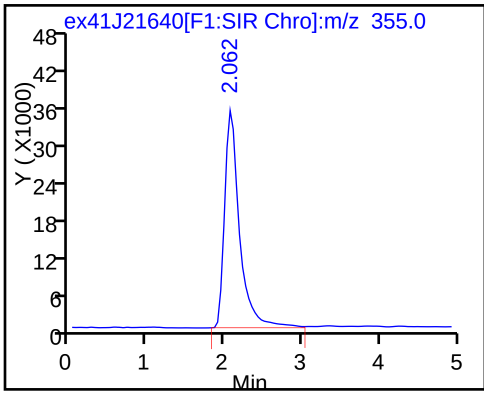


Report Date: 02-Nov-2011 06:55:58 Chrom Revision: 1.2 13-Jul-2011 10:43:06

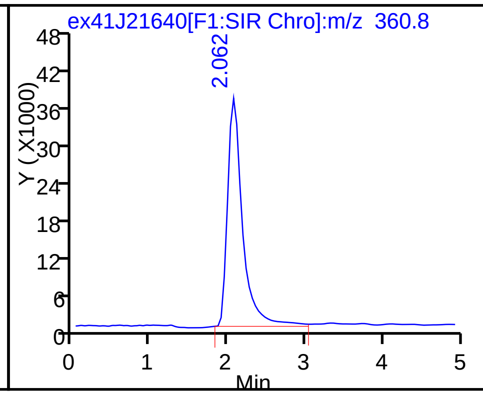
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21640.d

Injection Date:	02-Nov-2011 05:28:09	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	164
Operator ID:		Injection Vol:	40.00 ul

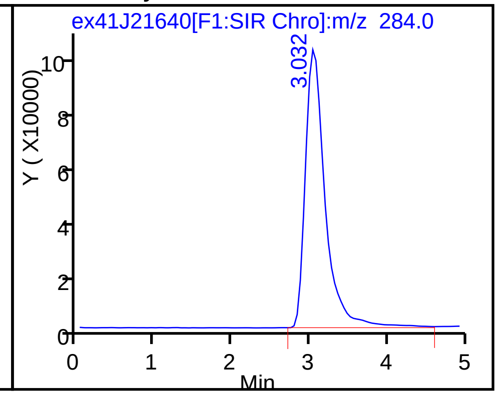
2 HMX



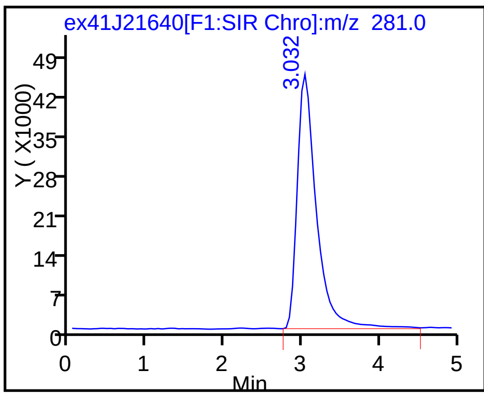
* 1 HMX-13C4



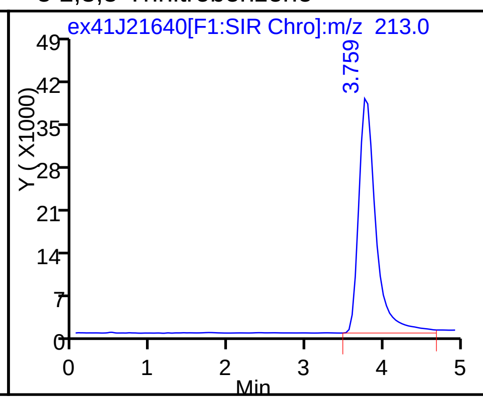
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



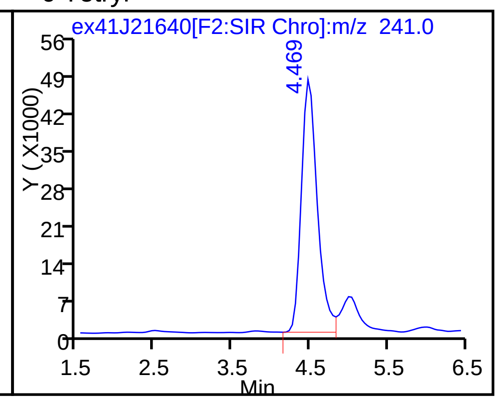
4 RDX



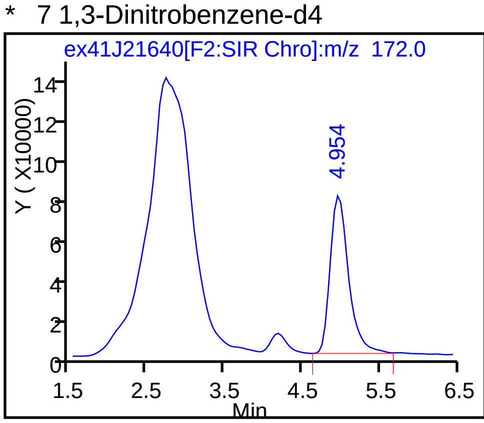
5 1,3,5-Trinitrobenzene



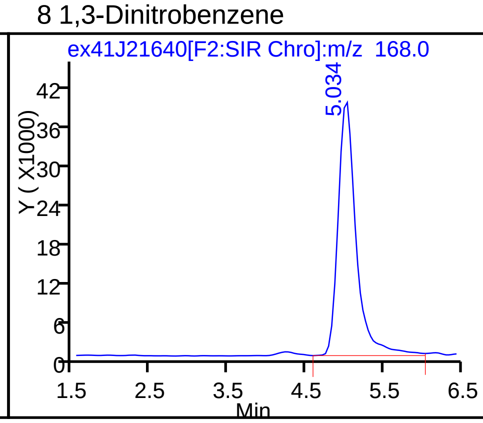
6 Tetryl



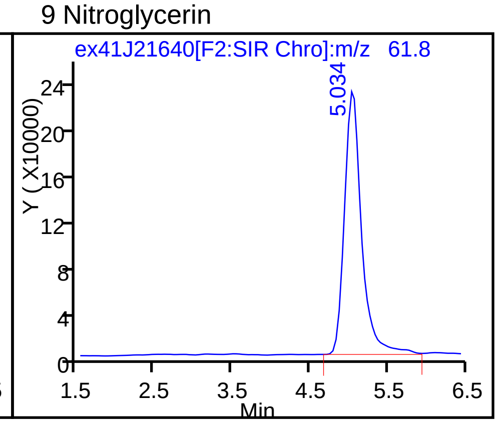
* 7 1,3-Dinitrobenzene-d4



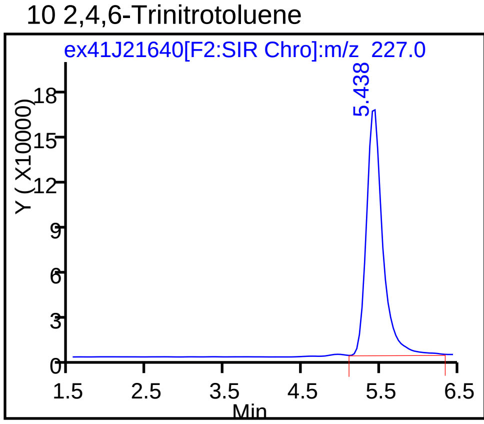
8 1,3-Dinitrobenzene



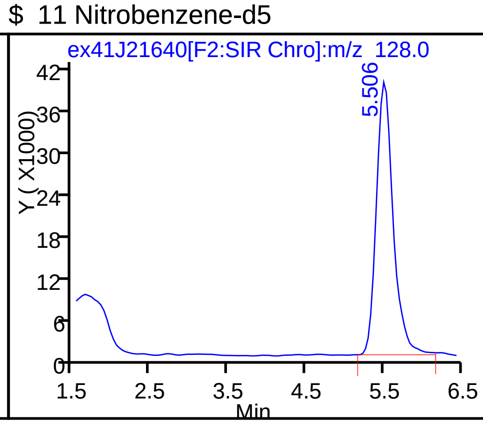
9 Nitroglycerin



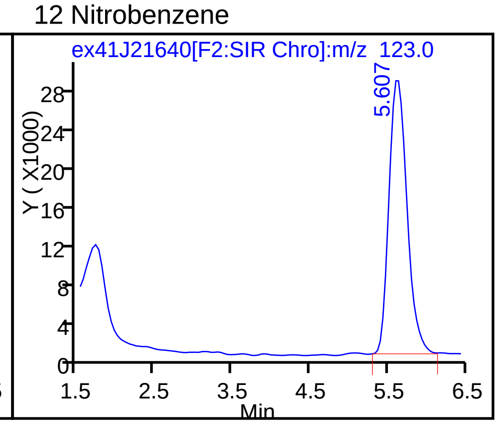
10 2,4,6-Trinitrotoluene



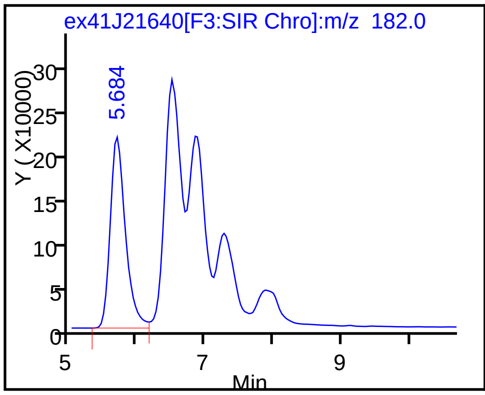
$ 11 Nitrobenzene-d5



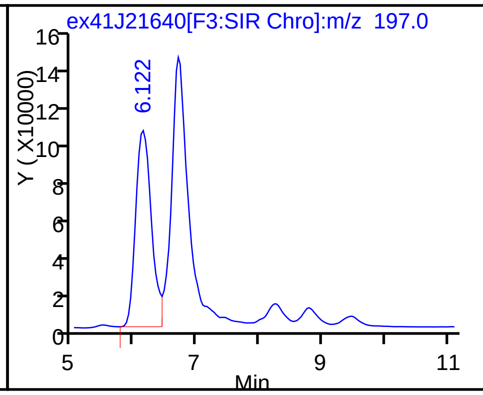
12 Nitrobenzene



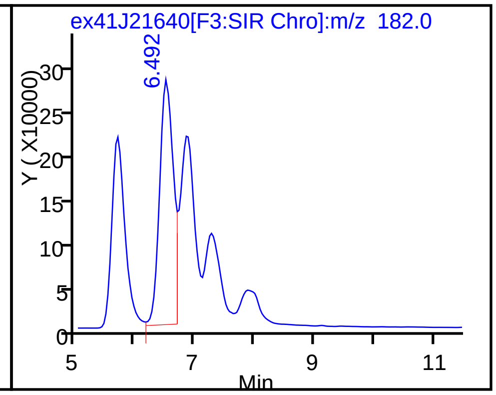
13 3,4-Dinitrotoluene



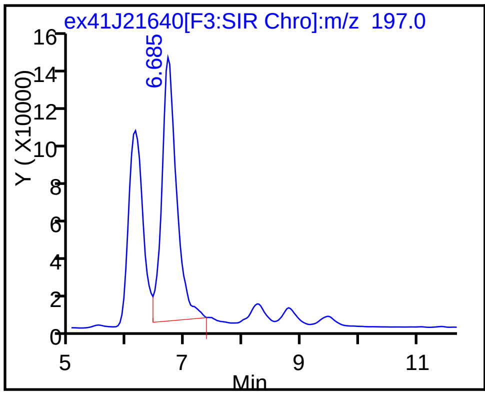
14 4-Amino-2,6-dinitrotoluene



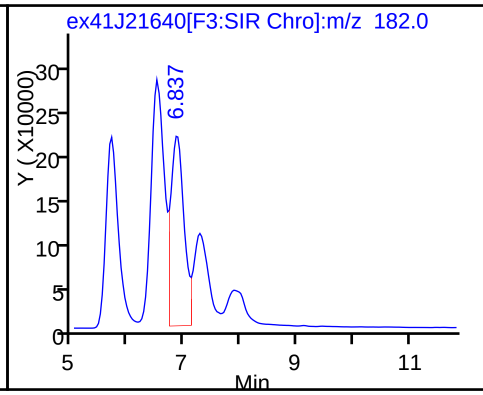
15 2,3-Dinitrotoluene



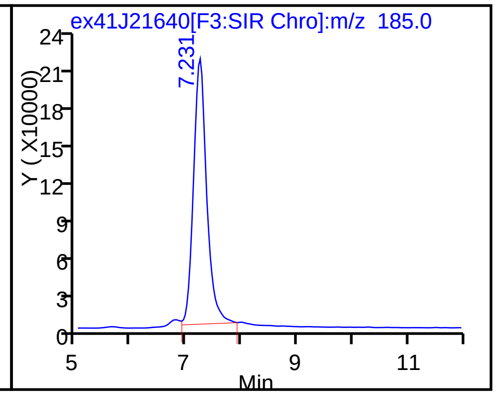
16 2-Amino-4,6-dinitrotoluene



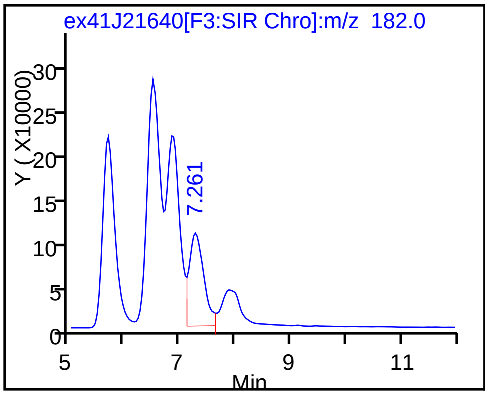
17 2,6-Dinitrotoluene



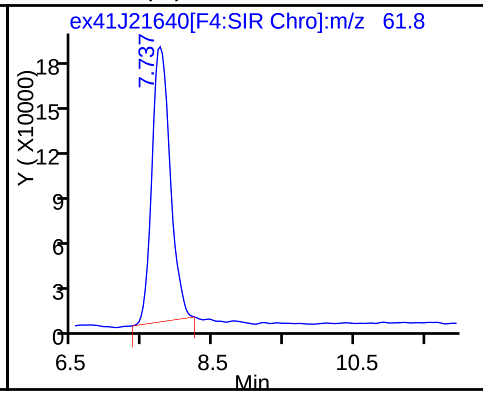
* 18 2,4-dinitrotoluene-d3



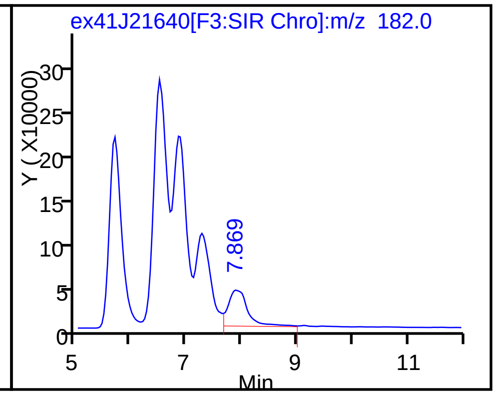
19 2,4-Dinitrotoluene



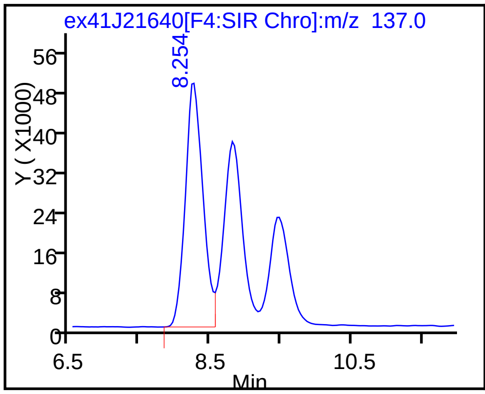
20 PETN (M)



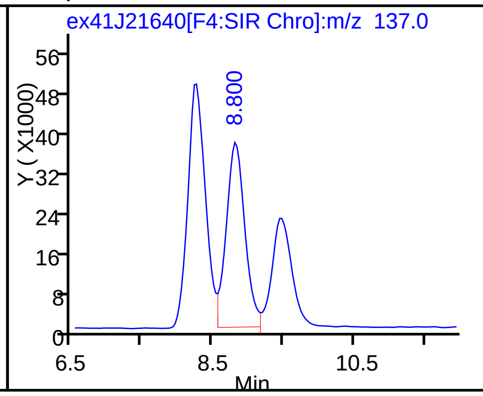
21 3,5-Dinitrotoluene



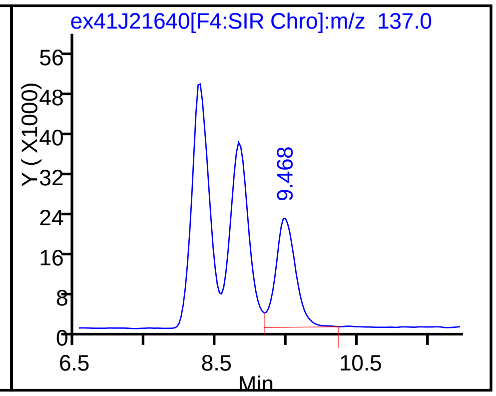
22 o-Nitrotoluene



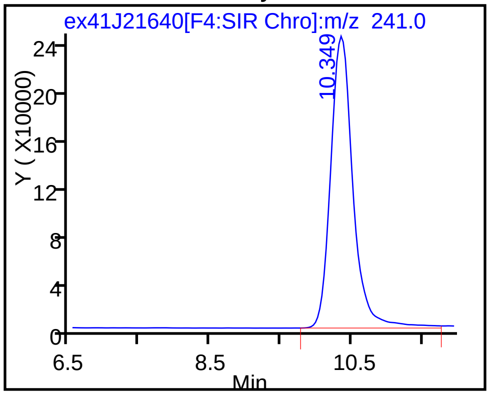
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



Report Date: 02-Nov-2011 06:55:58 Chrom Revision: 1.2 13-Jul-2011 10:43:06

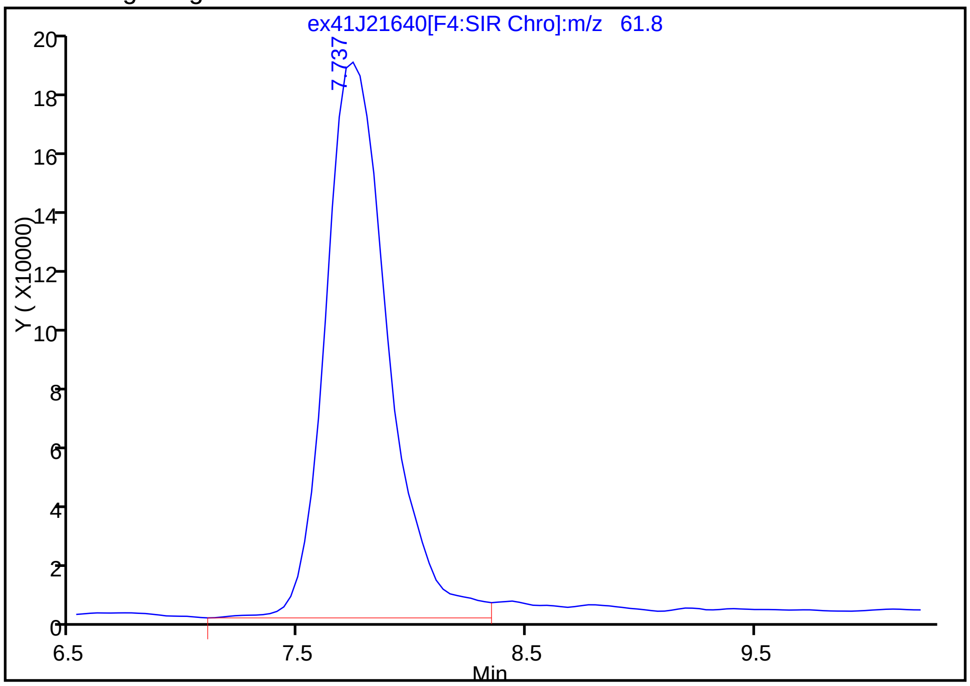
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21640.d		
Injection Date:	02-Nov-2011 05:28:09	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	164
Operator ID:		Injection Vol:	40.00 ul

20 PETN, Signal: 1, m/z: 61.8 Type: quant, RT: 7.74, Det: F4:SIR

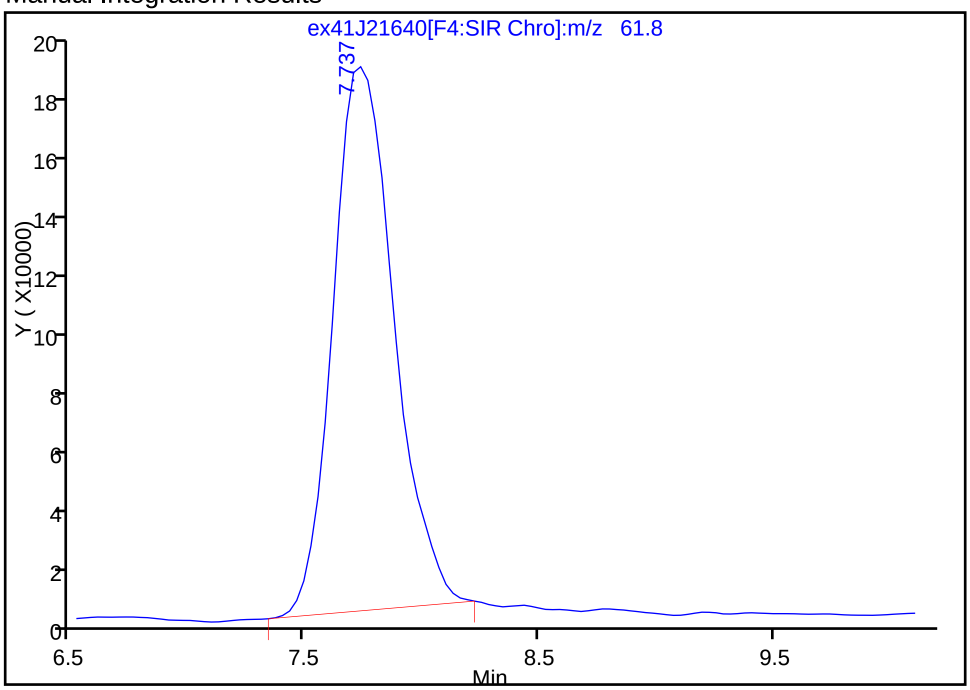
Processing Integration Results

RT: 7.74
Response: 3470640
Amount: 128.1379



Manual Integration Results

RT: 7.74
Response: 3207570
Amount: 118.2767



Reviewer: meyera, 02-Nov-2011 06:55:48

Audit Action: Manually Integrated

Audit Reason: Baseline

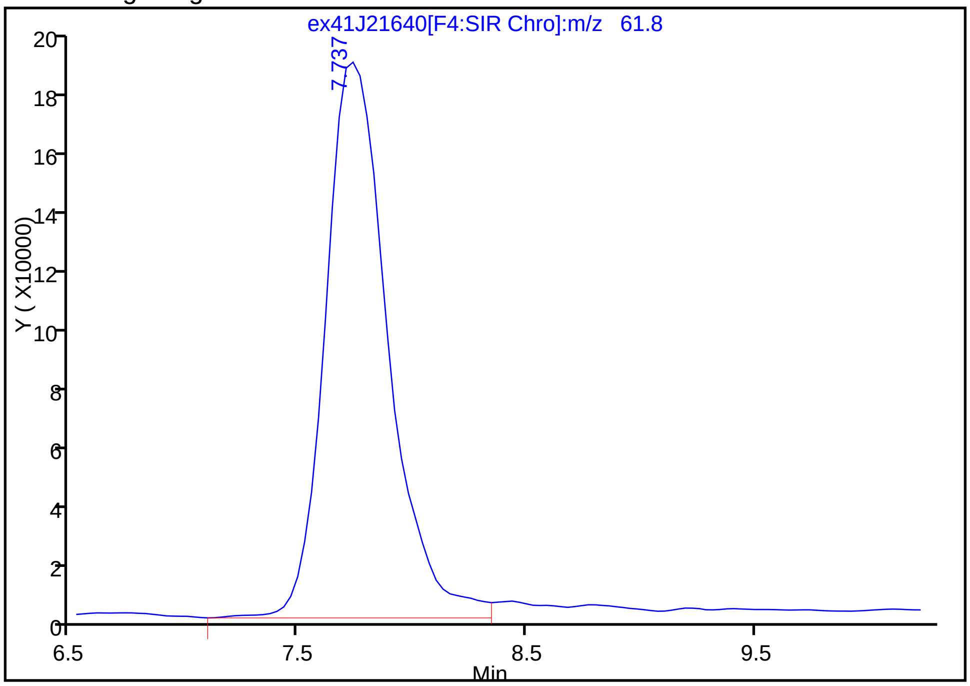
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21640.d		
Injection Date:	02-Nov-2011 05:28:09	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	164
Operator ID:		Injection Vol:	40.00 ul

20 PETN, Signal: 1, m/z: 61.8 Type: quant, RT: 7.74, Det: F4:SIR

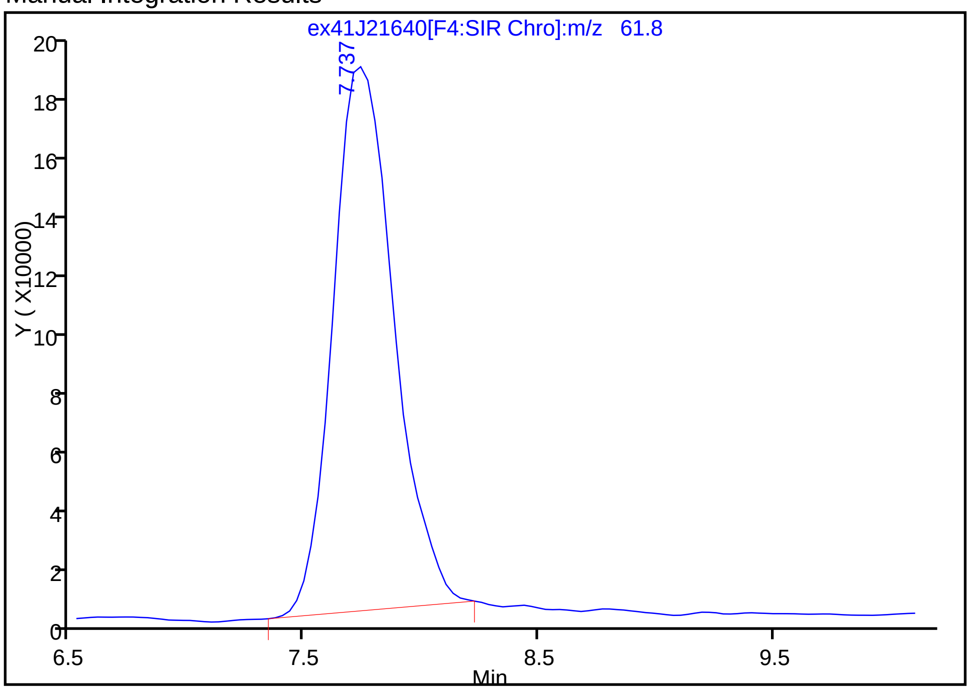
Processing Integration Results

RT: 7.74
Response: 3470640
Amount: 128.1379



Manual Integration Results

RT: 7.74
Response: 3207570
Amount: 118.2767



Reviewer: meyera, 02-Nov-2011 06:55:48
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94252/175   Calibration Date: 11/02/2011 07:57

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21651.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.094		47.1	50.0	-5.8	20.0
RDX	Lin1		1.003		51.9	49.4	5.2	20.0
1,3,5-Trinitrobenzene	Lin1		0.9753		42.4	50.1	-15.3	20.0
Tetryl	Lin1		1.283		47.1	49.7	-5.2	20.0
1,3-Dinitrobenzene	Lin1		1.095		49.6	50.7	-2.2	20.0
Nitroglycerin	Lin1		6.175		46.6	50.0	-6.8	30.0
2,4,6-Trinitrotoluene	Lin1		4.734		48.1	50.1	-3.9	20.0
Nitrobenzene	Lin1		0.9027		44.5	50.0	-10.9	20.0
3,4-Dinitrotoluene	Lin1		2.343		50.7	50.0	1.4	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.239		51.5	49.4	4.4	20.0
2,3-Dinitrotoluene	Lin1		2.893		47.6	50.0	-4.8	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.525		51.9	50.1	3.7	20.0
2,6-Dinitrotoluene	Lin1		2.489		46.8	50.1	-6.5	20.0
2,4-Dinitrotoluene	Lin1		1.173		46.2	50.2	-7.9	20.0
PETN	Lin1		2.458		61.8	49.9	23.8	30.0
3,5-Dinitrotoluene	Lin1		0.6249		48.7	50.0	-2.6	30.0
2-Nitrotoluene	Lin1		0.5231		48.6	49.6	-1.9	20.0
4-Nitrotoluene	Lin1		0.4408		46.4	49.8	-6.7	20.0
3-Nitrotoluene	Lin1		0.2639		44.4	49.4	-10.1	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.32		46.6	50.0	-6.8	30.0
Nitrobenzene-d5	Lin1		1.209		47.1	50.0	-5.8	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21651.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	02-Nov-2011 07:57:59	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX4 CCV 50 ug/L 280-0002689-175		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94252	Lims Sample ID:	175
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:30	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	226496	47.1			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		540942	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1770166	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	350604	51.9			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	253908	42.4			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.910	331672	47.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1345773	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.034	0.000	1.016	288774	49.6			
9 Nitroglycerin										
2	61.8	5.034	5.034	0.000	1.016	1605892	46.6			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.098	1232463	48.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	314643	47.1			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	234544	44.5			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.789	1815407	50.7			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.850	947322	51.5			

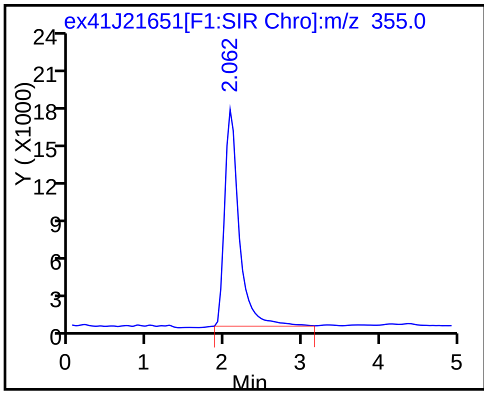
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.902	2240856	47.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	1182724	51.9			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	1929745	46.8			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		3873083	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.013	911202	46.2			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	1900430	61.8			
21 3,5-Dinitrotoluene										
3	182.0	7.899	7.899	0.000	1.097	484085	48.7			
22 o-Nitrotoluene										
4	137.0	8.284	8.284	0.000	1.000	401525	48.6			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	339777	46.4			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	201993	44.4			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.349	10.349	0.000	1.000	2684369	46.6			

Report Date: 02-Nov-2011 10:22:31 Chrom Revision: 1.2 13-Jul-2011 10:43:06

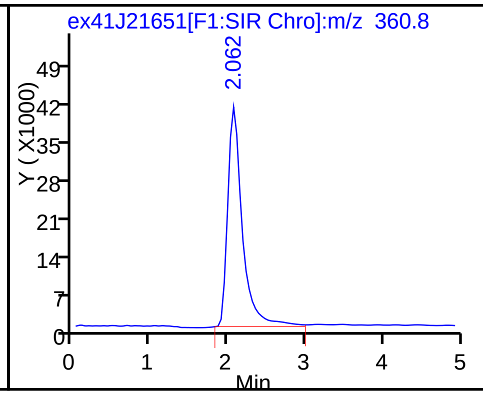
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21651.d

Injection Date:	02-Nov-2011 07:57:59	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	175
Operator ID:		Injection Vol:	40.00 ul

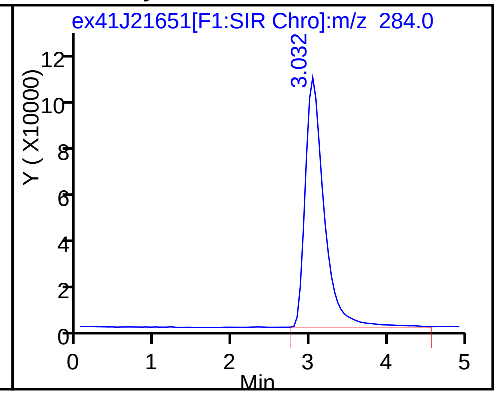
2 HMX



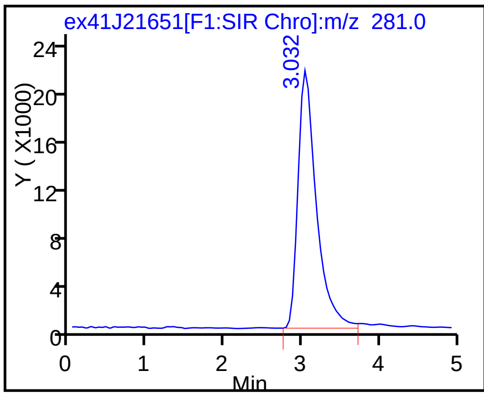
* 1 HMX-13C4



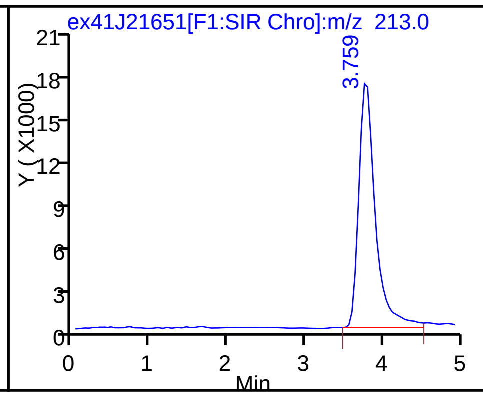
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



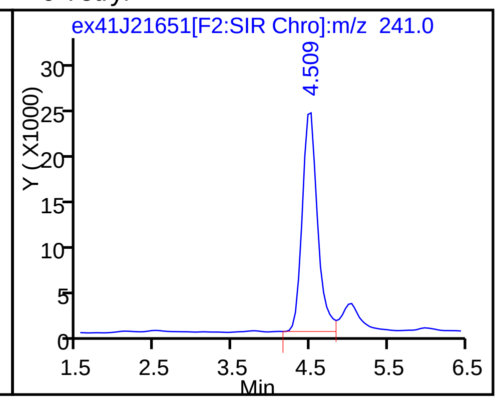
4 RDX



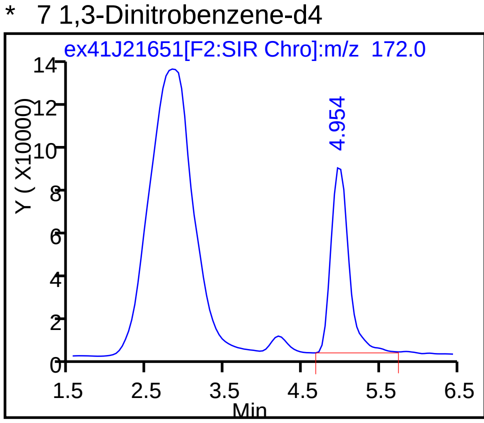
5 1,3,5-Trinitrobenzene



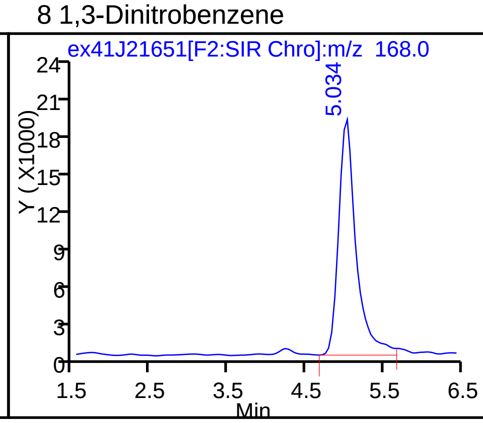
6 Tetryl



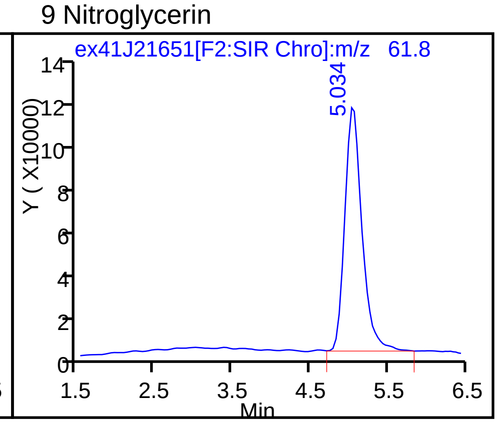
* 7 1,3-Dinitrobenzene-d4



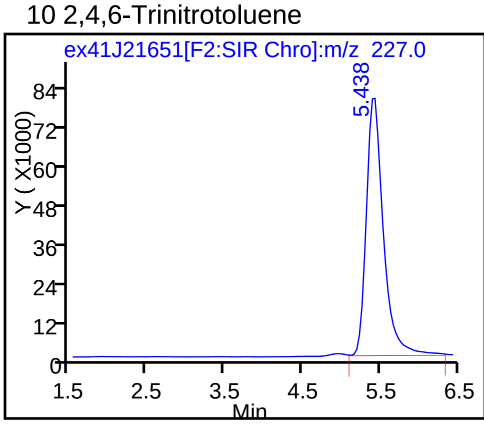
8 1,3-Dinitrobenzene



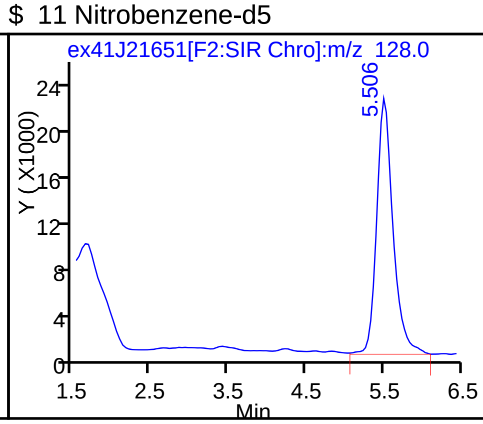
9 Nitroglycerin



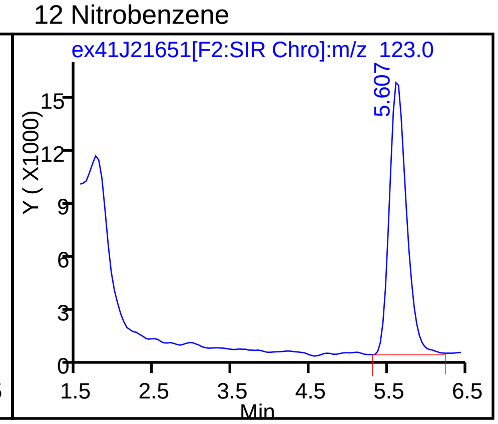
10 2,4,6-Trinitrotoluene



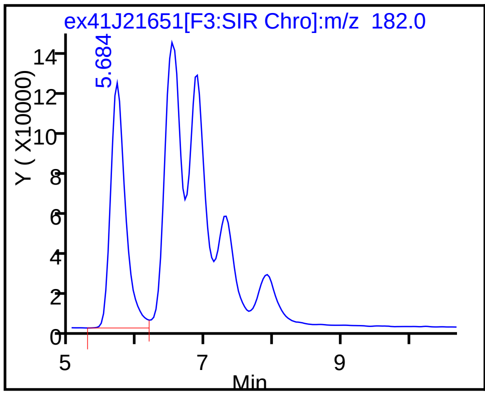
$ 11 Nitrobenzene-d5



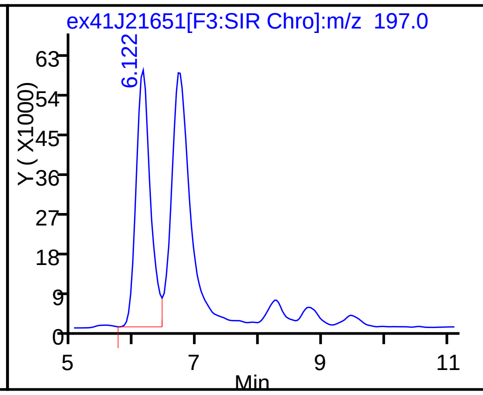
12 Nitrobenzene



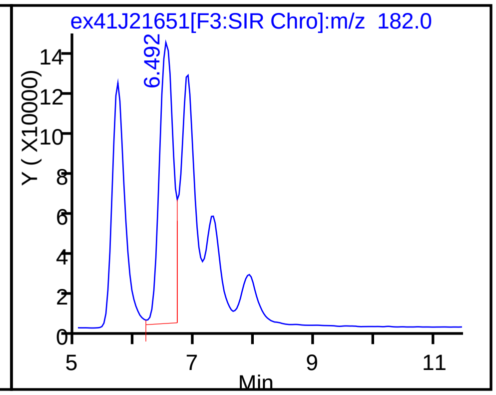
13 3,4-Dinitrotoluene



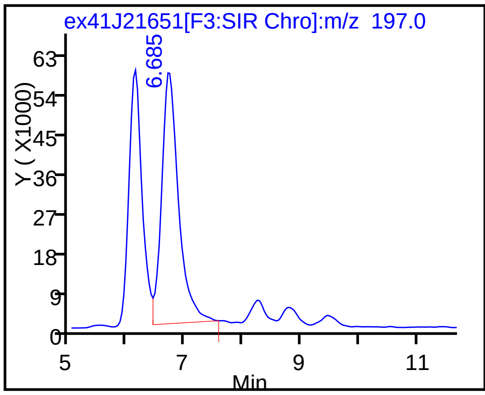
14 4-Amino-2,6-dinitrotoluene



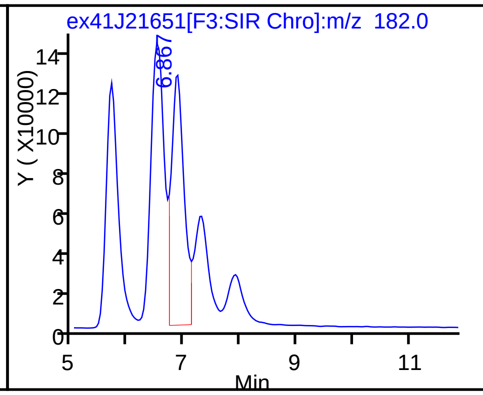
15 2,3-Dinitrotoluene



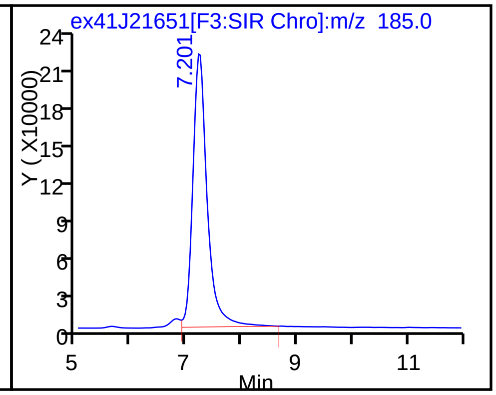
16 2-Amino-4,6-dinitrotoluene



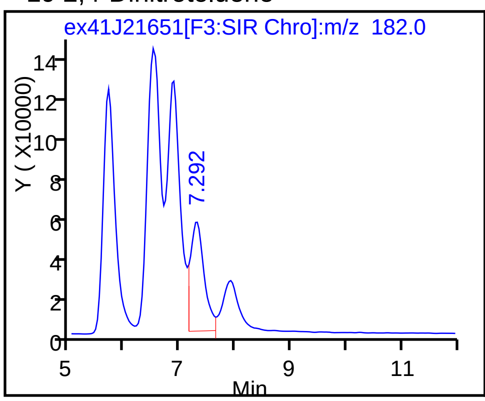
17 2,6-Dinitrotoluene



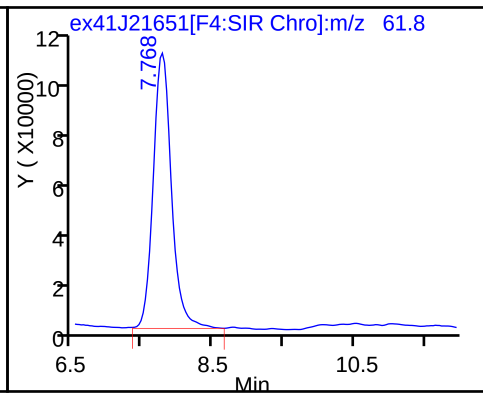
* 18 2,4-dinitrotoluene-d3



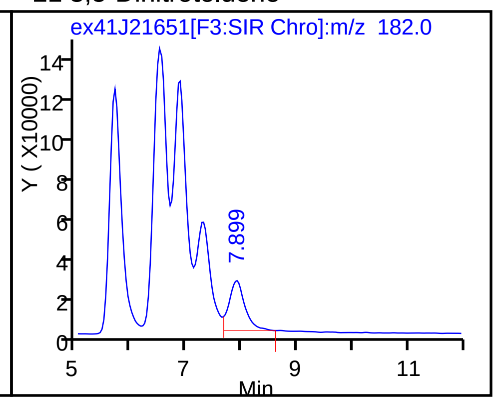
19 2,4-Dinitrotoluene



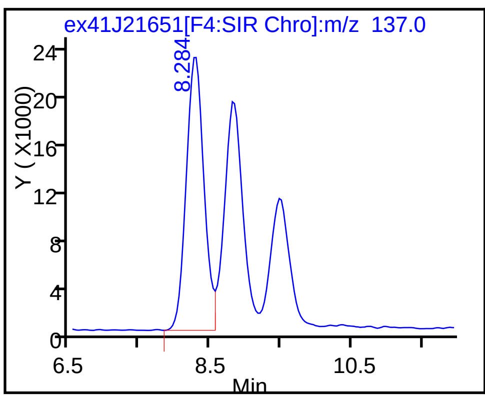
20 PETN



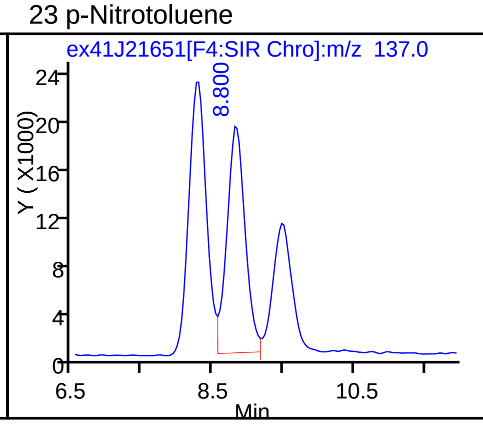
21 3,5-Dinitrotoluene



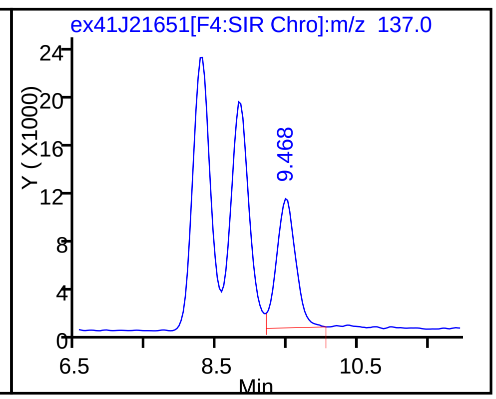
22 o-Nitrotoluene



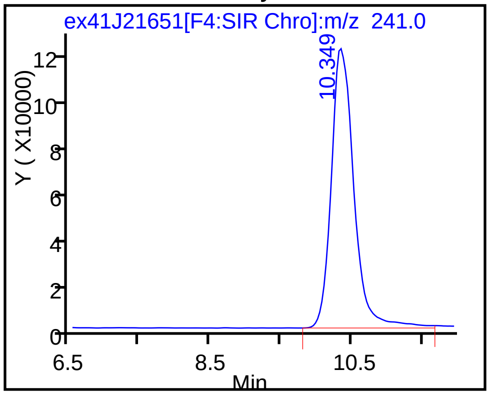
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Lab Sample ID: CCV 280-94252/184 Calibration Date: 11/02/2011 10:01

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21660.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.398		107	100	6.9	20.0
RDX	Lin1		1.070		111	98.7	12.4	20.0
1,3,5-Trinitrobenzene	Lin1		1.192		100	100	0.2	20.0
Tetryl	Lin1		1.307		94.0	99.4	-5.4	20.0
1,3-Dinitrobenzene	Lin1		1.174		106	101	4.3	20.0
Nitroglycerin	Lin1		6.981		104	100	3.9	30.0
2,4,6-Trinitrotoluene	Lin1		5.508		111	100	11.1	20.0
Nitrobenzene	Lin1		0.9809		96.4	99.9	-3.5	20.0
3,4-Dinitrotoluene	Lin1		2.889		125	100	25.4	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.454		121	98.7	22.2*	20.0
2,3-Dinitrotoluene	Lin1		3.297		109	100	8.9	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.822		124	100	24.3*	20.0
2,6-Dinitrotoluene	Lin1		3.231		122	100	21.5*	20.0
2,4-Dinitrotoluene	Lin1		1.438		113	100	12.7	20.0
PETN	Lin1		2.244		114	99.8	14.6	30.0
3,5-Dinitrotoluene	Lin1		0.7114		109	100	9.3	30.0
2-Nitrotoluene	Lin1		0.5581		104	99.1	4.9	20.0
4-Nitrotoluene	Lin1		0.4850		102	99.5	2.3	20.0
3-Nitrotoluene	Lin1		0.3014		102	98.8	2.9	20.0
2,4,6-Trinitro-3-xylene	Lin1		11.12		100	100	0.4	30.0
Nitrobenzene-d5	Lin1		1.268		99.3	100	-0.7	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21660.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	02-Nov-2011 10:01:01	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX5 CCV 100 ug/L 280-0002689-184		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	94252	Lims Sample ID:	184
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:39	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 02-Nov-2011 10:21:37

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	365172	106.9			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		380675	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1409235	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	595494	110.9			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	582606	100.3			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	634514	94.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1263585	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	581344	105.8			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	3409515	103.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.439	0.000	1.098	2692887	111.2			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	619209	99.3			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	478603	96.4			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.789	4096207	125.4			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.850	2033861	120.6			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.902	4673076	108.9			
16 2-Amino-4,6-dinitrotoluene										M
3	197.0	6.685	6.685	0.000	0.928	2585014	124.4			M
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	4584952	121.6			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		3543875	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.262	0.000	1.008	2044498	113.0			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3174357	114.4			
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.869	0.000	1.093	1008464	109.3			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	783950	104.0			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	684013	101.8			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	422119	101.7			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.349	10.349	0.000	1.000	5430435	100.4			

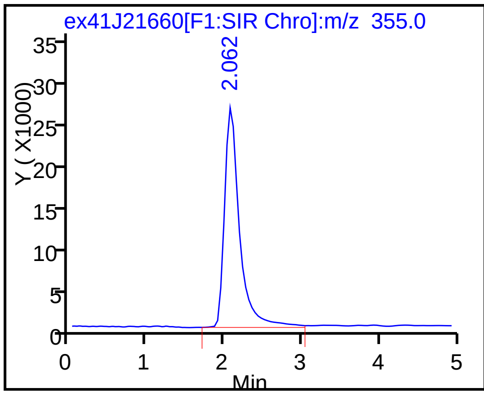
QC Flag Legend

Review Flags
M - Manually Integrated

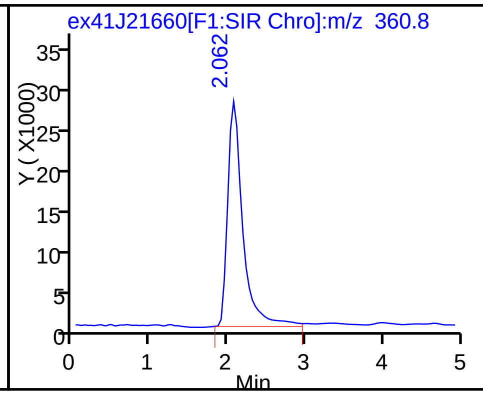
Report Date: 02-Nov-2011 10:22:40 | Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21660.d

Injection Date:	02-Nov-2011 10:01:01	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	184
Operator ID:		Injection Vol:	40.00 ul

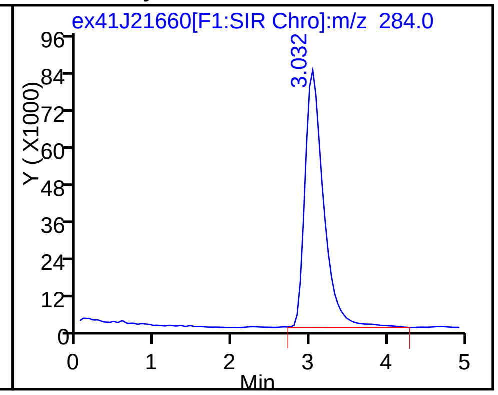
2 HMX



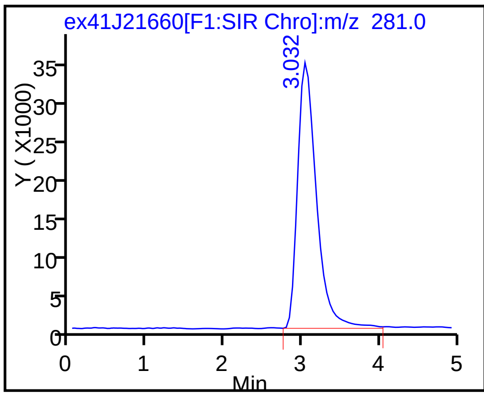
* 1 HMX-13C4



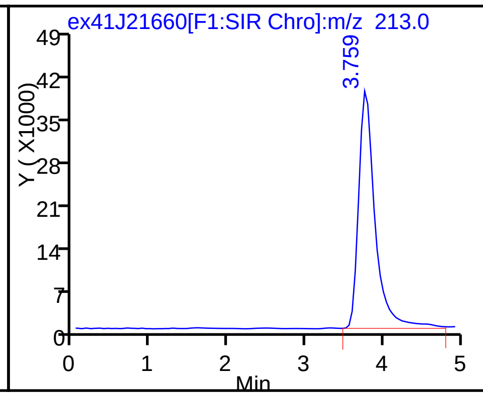
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



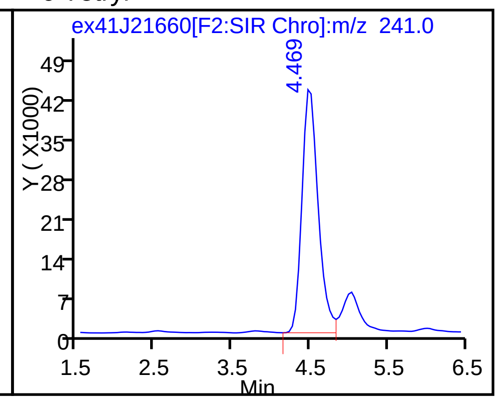
4 RDX



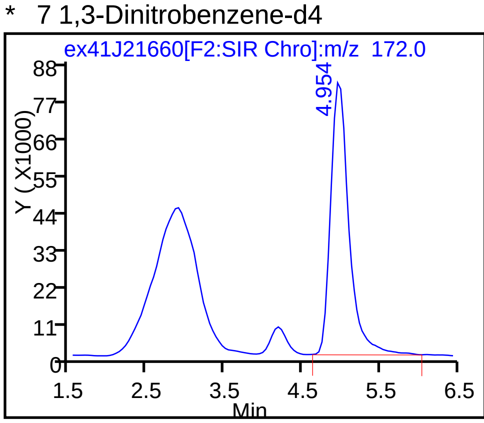
5 1,3,5-Trinitrobenzene



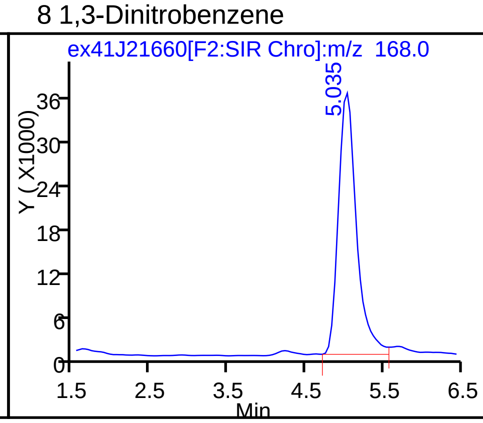
6 Tetryl



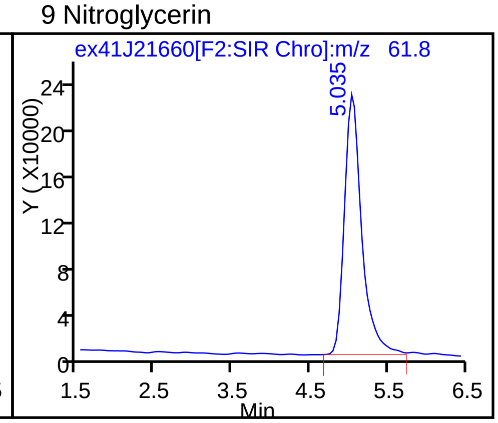
* 7 1,3-Dinitrobenzene-d4



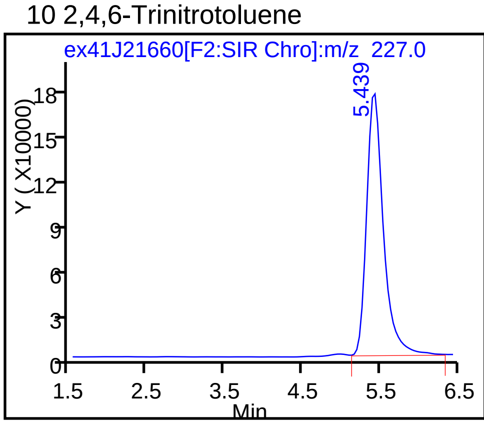
8 1,3-Dinitrobenzene



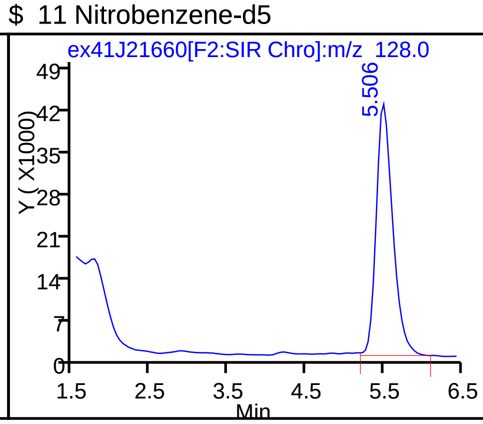
9 Nitroglycerin



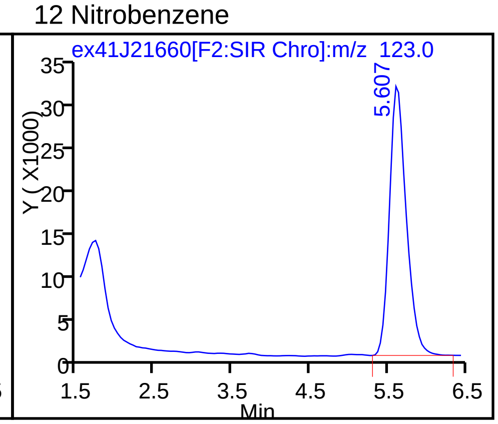
10 2,4,6-Trinitrotoluene



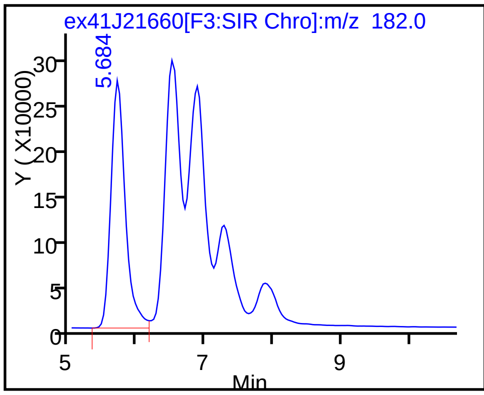
$ 11 Nitrobenzene-d5



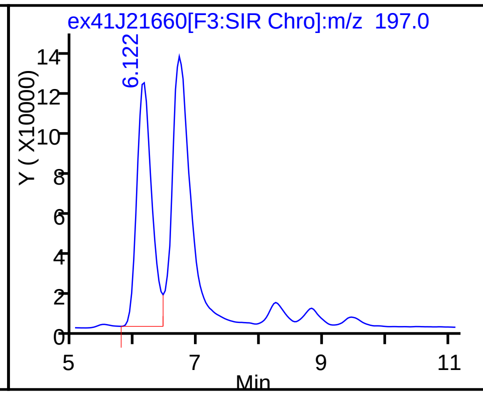
12 Nitrobenzene



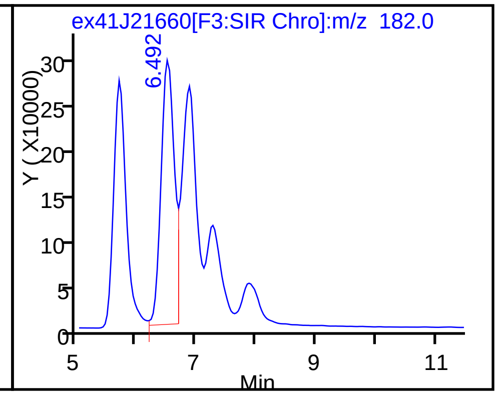
13 3,4-Dinitrotoluene



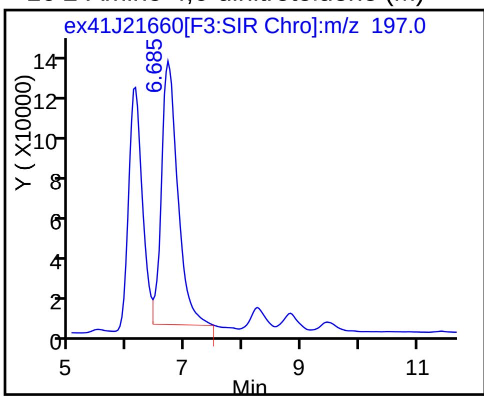
14 4-Amino-2,6-dinitrotoluene



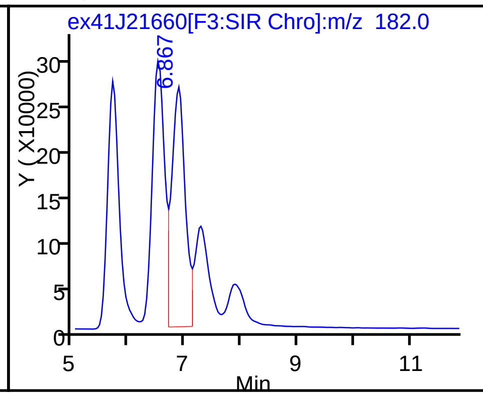
15 2,3-Dinitrotoluene



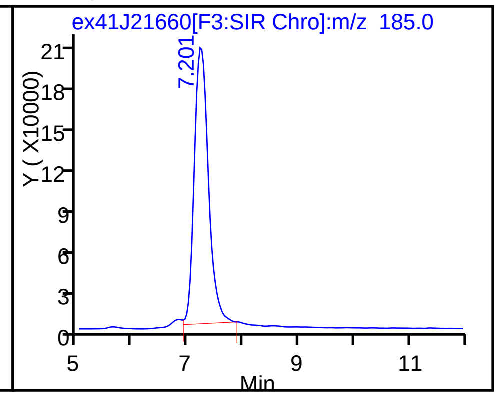
16 2-Amino-4,6-dinitrotoluene (M)



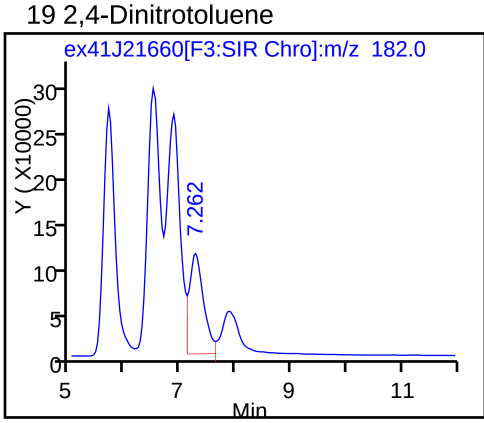
17 2,6-Dinitrotoluene



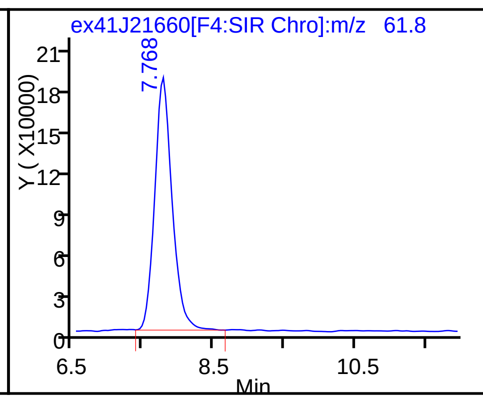
* 18 2,4-dinitrotoluene-d3



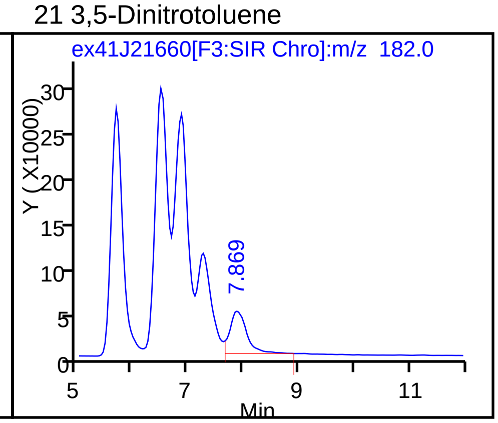
19 2,4-Dinitrotoluene



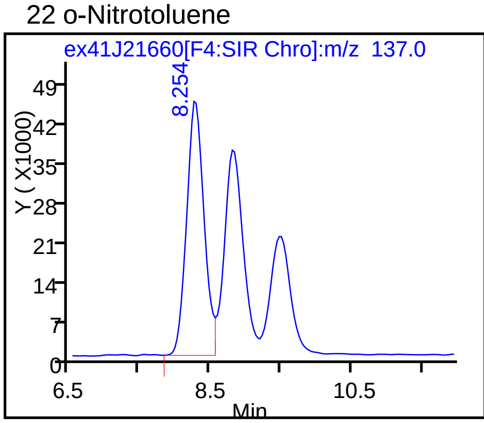
20 PETN



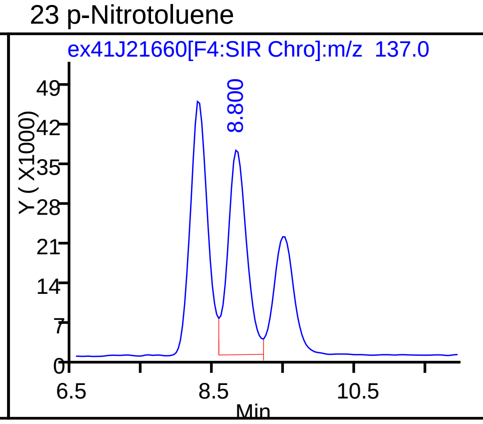
21 3,5-Dinitrotoluene



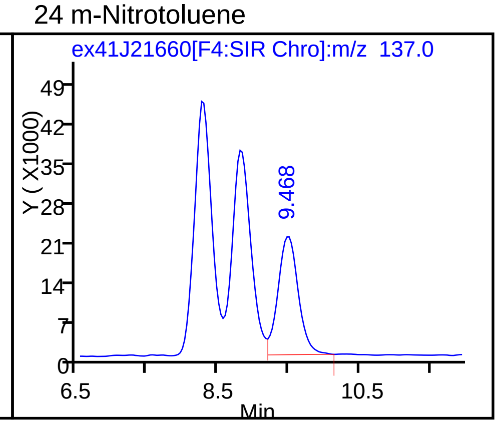
22 o-Nitrotoluene



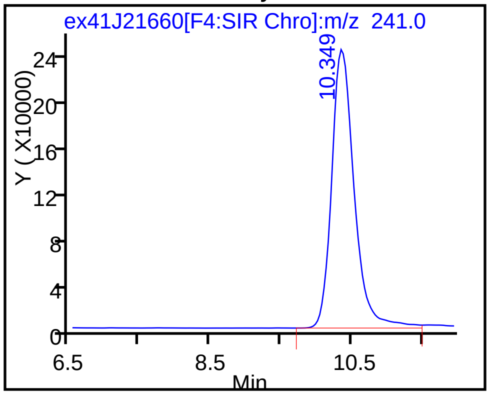
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



Report Date: 02-Nov-2011 10:22:40 Chrom Revision: 1.2 13-Jul-2011 10:43:06

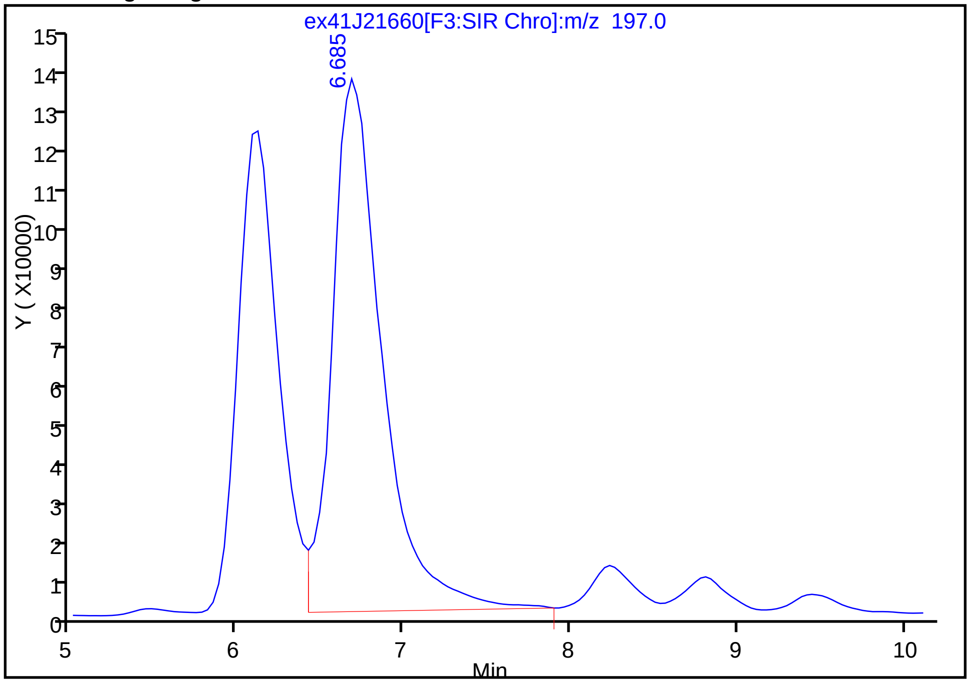
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21660.d		
Injection Date:	02-Nov-2011 10:01:01	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	184
Operator ID:		Injection Vol:	40.00 ul

16 2-Amino-4,6-dinitrotoluene, Signal: 1, m/z: 197.0 Type: quant, RT: 6.68, Det: F3:SIR

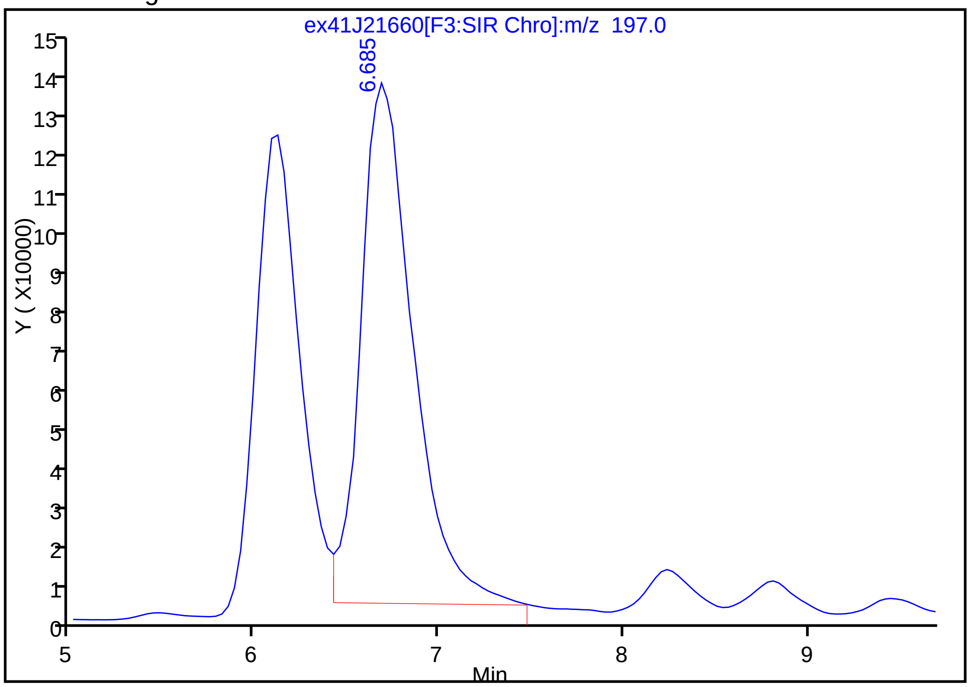
Processing Integration Results

RT: 6.68
Response: 2773660
Amount: 133.4598



Manual Integration Results

RT: 6.68
Response: 2585014
Amount: 124.3613



Reviewer: meyera, 02-Nov-2011 10:21:37

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-92097/1-A

Matrix: Solid | Lab File ID: ex41J21587.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 8330B | Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.26(g) | Date Analyzed: 11/01/2011 17:25

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	86		68-140

Report Date: 02-Nov-2011 06:47:48 Chrom Revision: 1.2 13-Jul-2011 10:43:06

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21587.d		
Lims ID:	MB 280-92097/1-A	Client ID:	
Inject. Date:	01-Nov-2011 17:25:37	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 280-92097/1-A 280-0002689-111		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	51
Lims Batch ID:	94193	Lims Sample ID:	111
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:47	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:42:09

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		532190	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1805352	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1114200	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.118	469722	85.4			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3502665	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

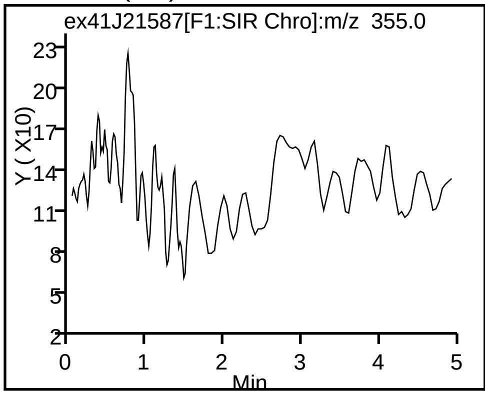
QC Flag Legend

Processing Flags
1 - Missing Peaks

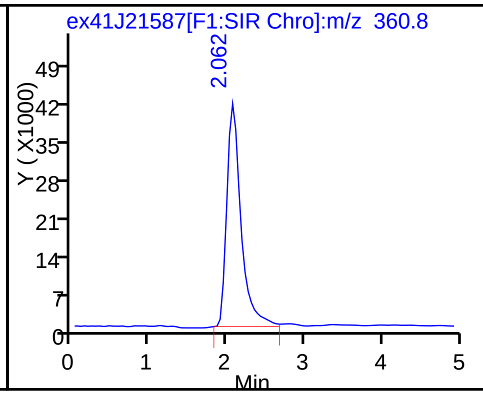
Report Date: 02-Nov-2011 06:47:48 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21587.d

Injection Date:	01-Nov-2011 17:25:37	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	111
Operator ID:		Injection Vol:	40.00 ul

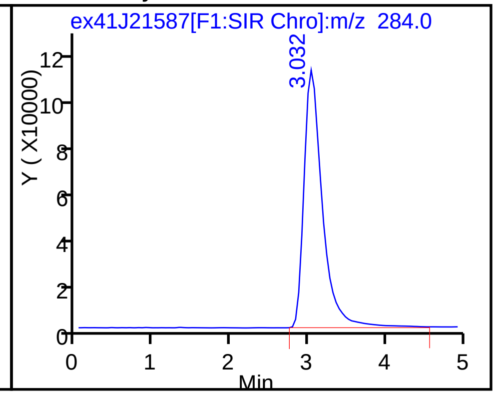
2 HMX (ND)



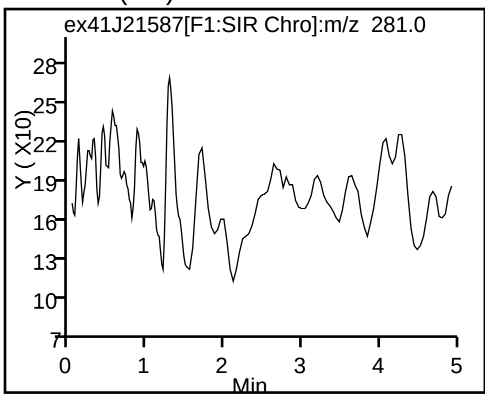
* 1 HMX-13C4



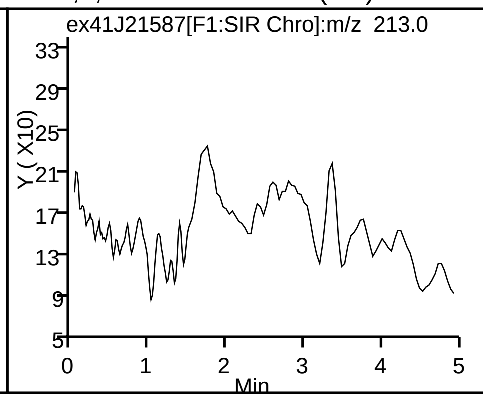
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



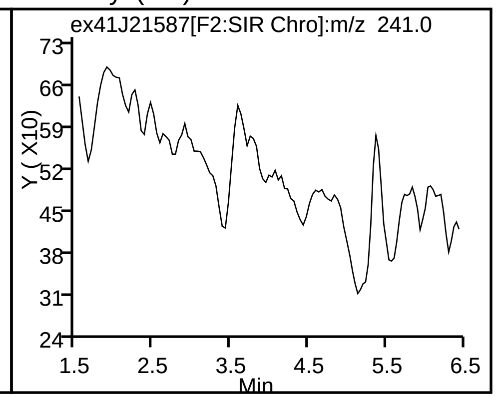
4 RDX (ND)



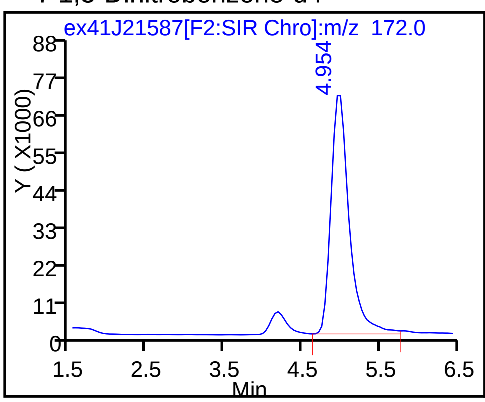
5 1,3,5-Trinitrobenzene (ND)



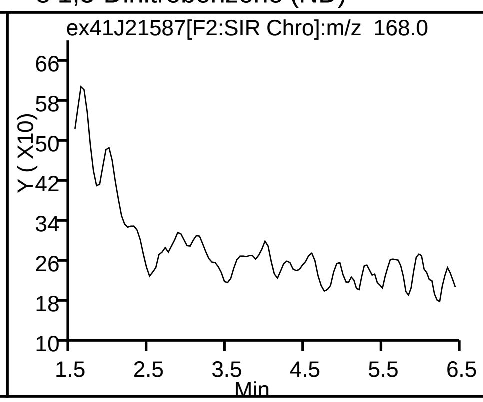
6 Tetryl (ND)



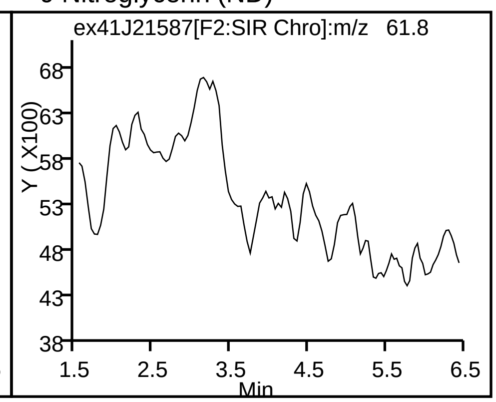
* 7 1,3-Dinitrobenzene-d4



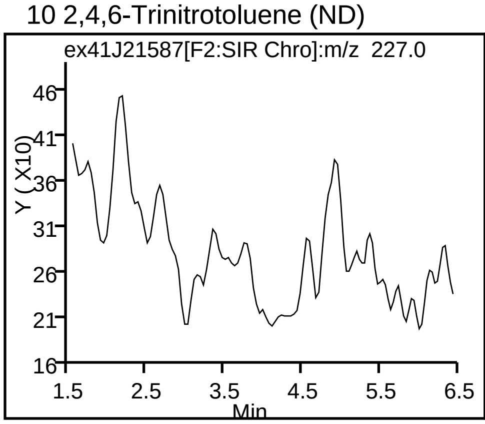
8 1,3-Dinitrobenzene (ND)



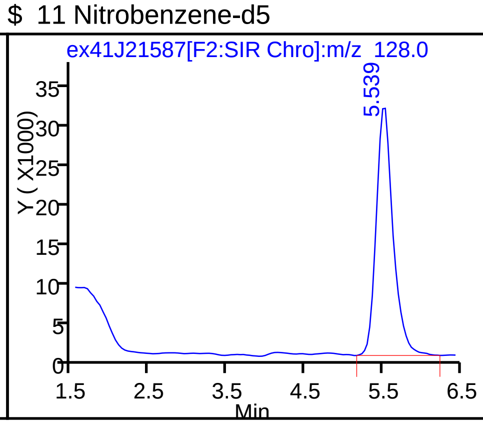
9 Nitroglycerin (ND)



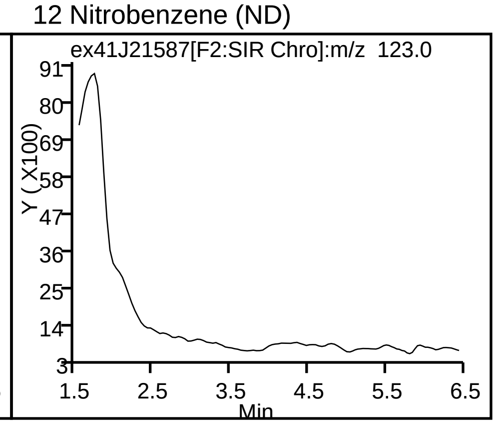
10 2,4,6-Trinitrotoluene (ND)



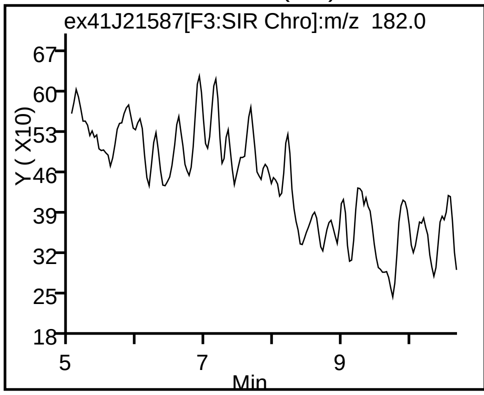
$ 11 Nitrobenzene-d5



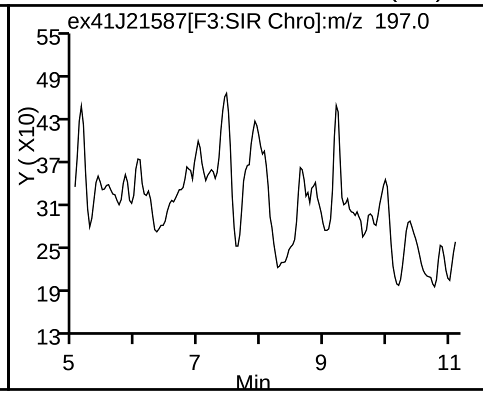
12 Nitrobenzene (ND)



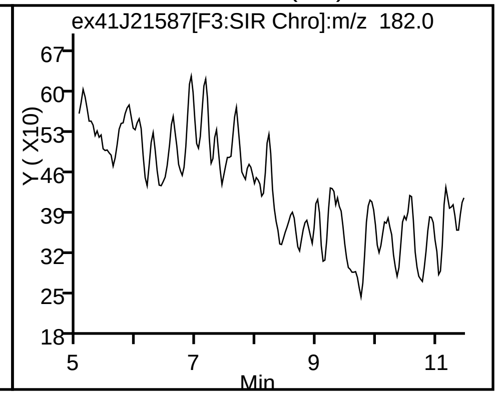
13 3,4-Dinitrotoluene (ND)



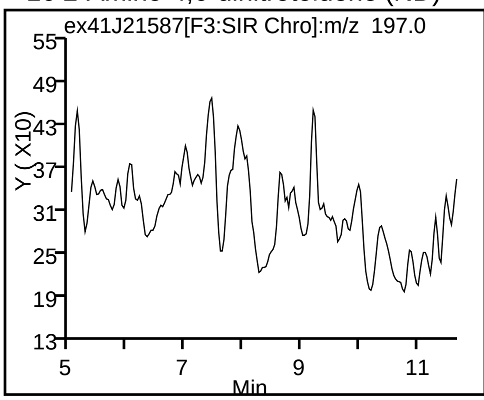
14 4-Amino-2,6-dinitrotoluene (ND)



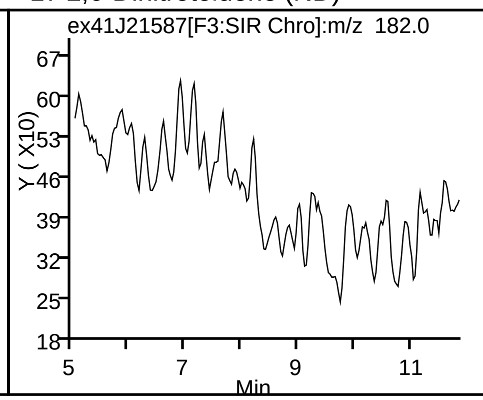
15 2,3-Dinitrotoluene (ND)



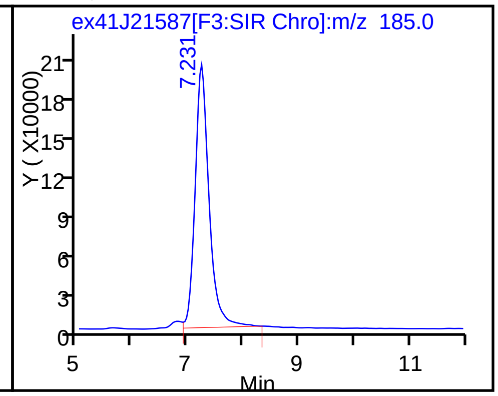
16 2-Amino-4,6-dinitrotoluene (ND)



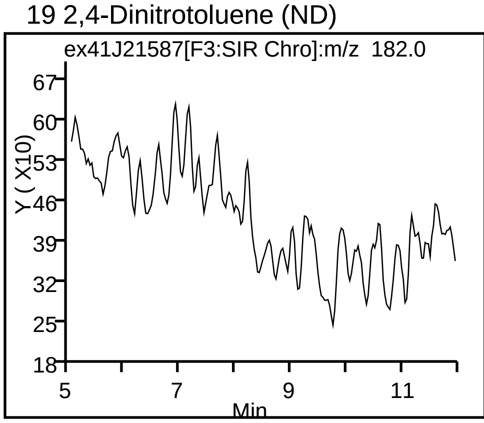
17 2,6-Dinitrotoluene (ND)



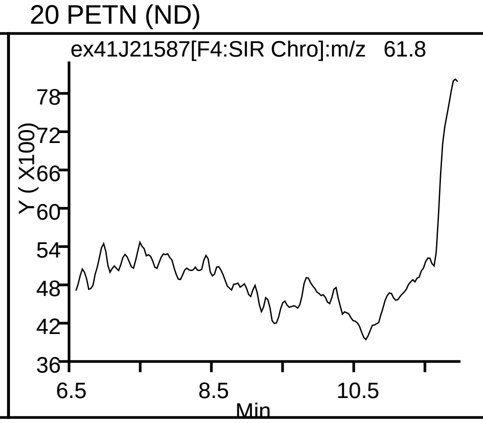
* 18 2,4-dinitrotoluene-d3



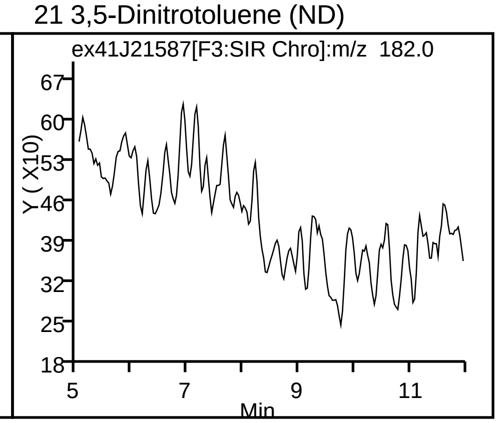
19 2,4-Dinitrotoluene (ND)



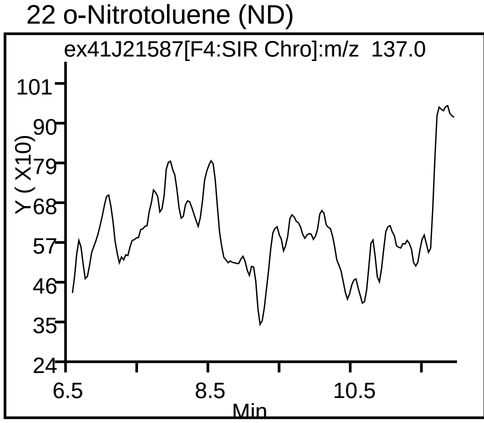
20 PETN (ND)



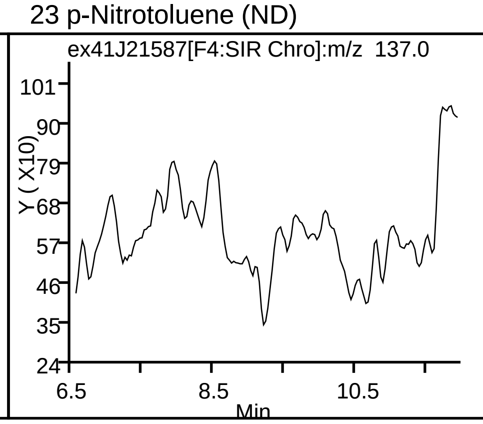
21 3,5-Dinitrotoluene (ND)



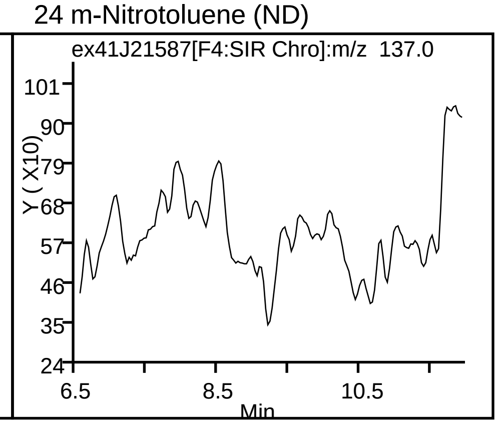
22 o-Nitrotoluene (ND)



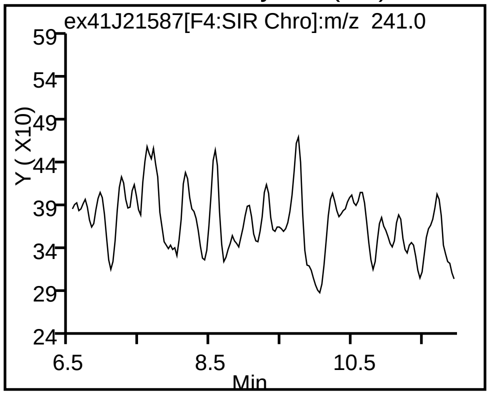
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-92102/1-A

Matrix: Solid   Lab File ID: ex41J21614.d

Analysis Method: 8321B   Date Collected:

Extraction Method: 8330B   Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.33(g)   Date Analyzed: 11/01/2011 23:33

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21614.d		
Lims ID:	MB 280-92102/1-A	Client ID:	
Inject. Date:	01-Nov-2011 23:33:50	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 280-92102/1-A 280-0002689-138		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	75
Lims Batch ID:	94194	Lims Sample ID:	138
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:18	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 06:49:16

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		579920	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1989483	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1162066	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.540	-0.001	1.118	490525	85.5			
12 Nitrobenzene										1
2	123.0		5.641							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3656455	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.830							
24 m-Nitrotoluene										
4	137.0		9.499							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

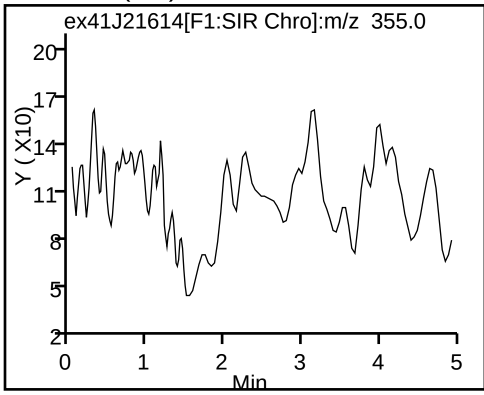
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:54:19 Chrom Revision: 1.2 13-Jul-2011 10:43:06

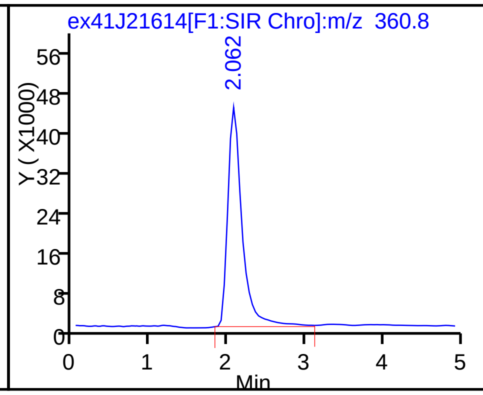
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21614.d

Injection Date:	01-Nov-2011 23:33:50	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	138
Operator ID:		Injection Vol:	40.00 ul

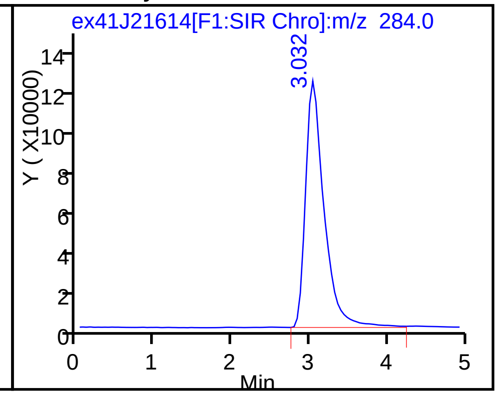
2 HMX (ND)



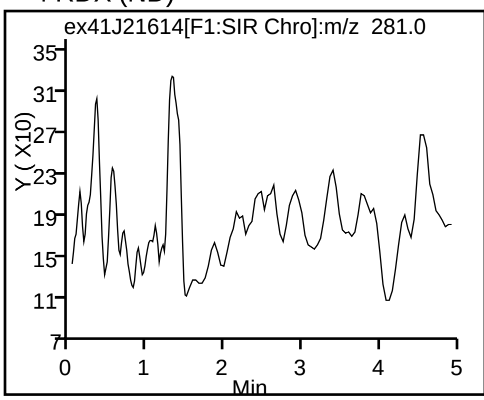
* 1 HMX-13C4



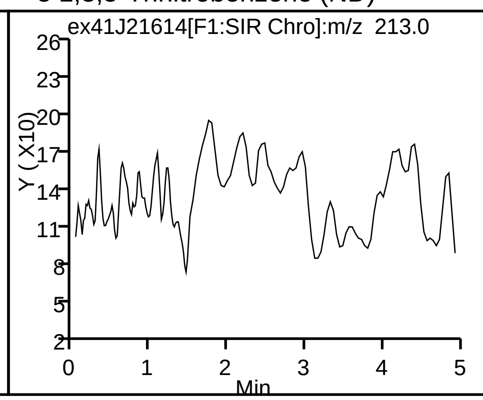
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



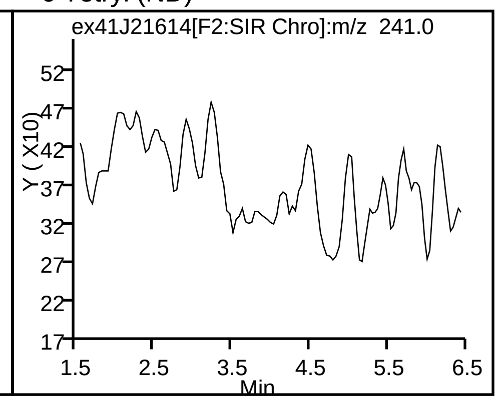
4 RDX (ND)



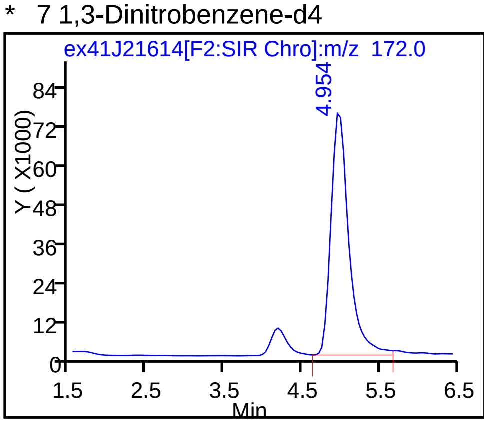
5 1,3,5-Trinitrobenzene (ND)



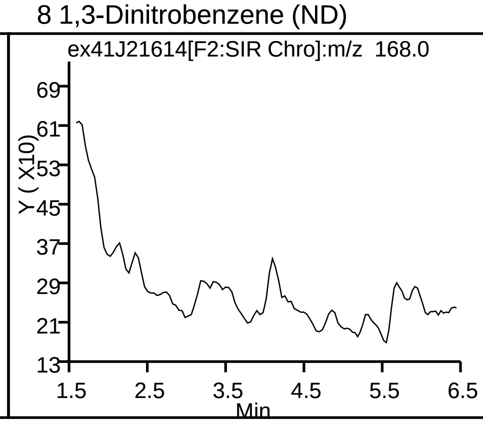
6 Tetryl (ND)



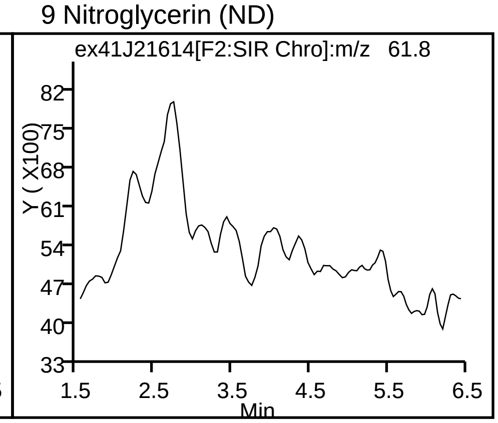
* 7 1,3-Dinitrobenzene-d4



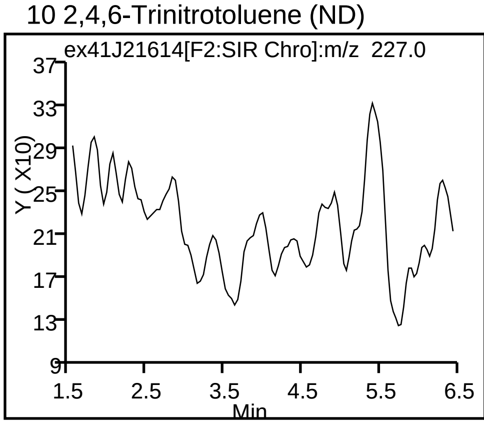
8 1,3-Dinitrobenzene (ND)



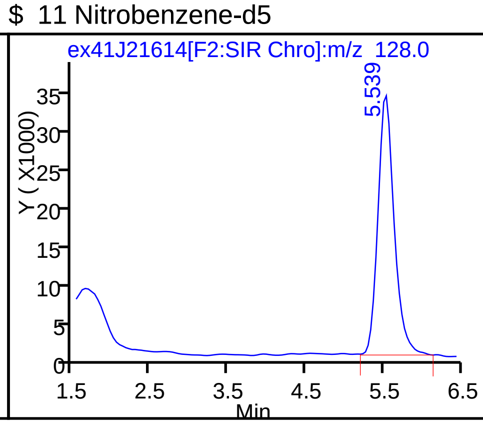
9 Nitroglycerin (ND)



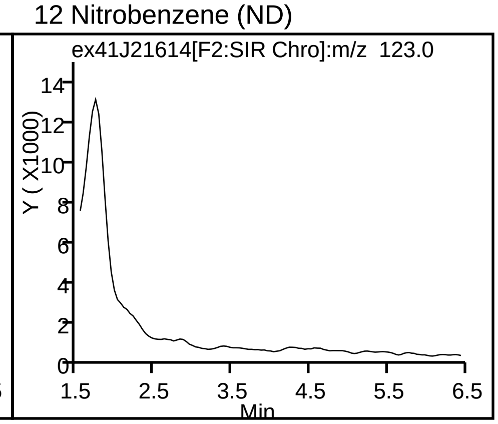
10 2,4,6-Trinitrotoluene (ND)



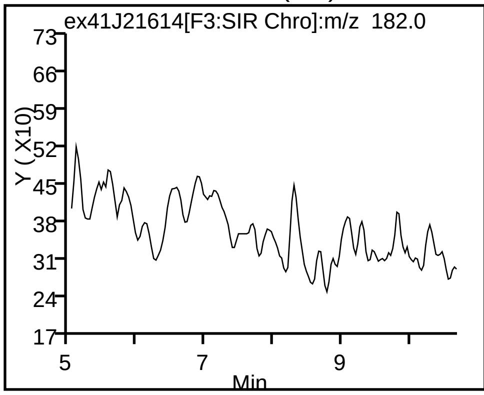
$ 11 Nitrobenzene-d5



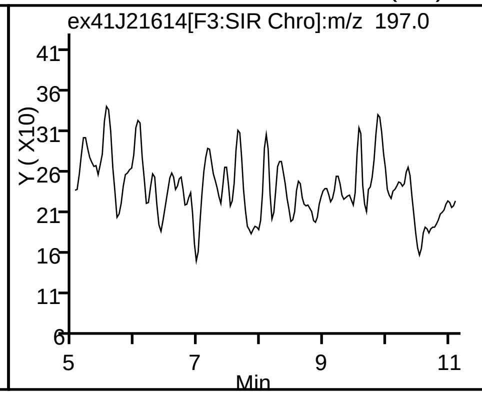
12 Nitrobenzene (ND)



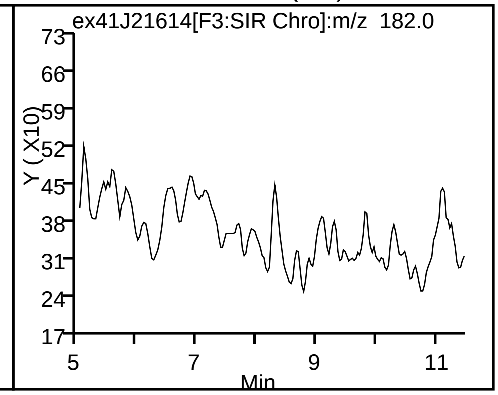
13 3,4-Dinitrotoluene (ND)



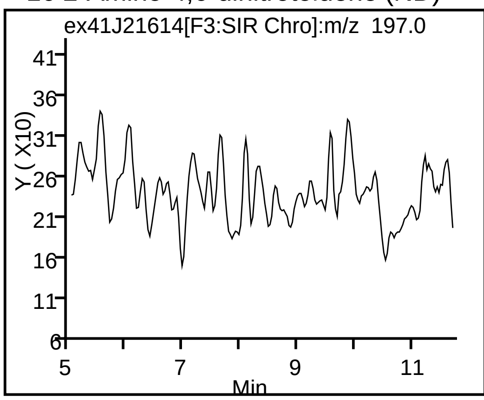
14 4-Amino-2,6-dinitrotoluene (ND)



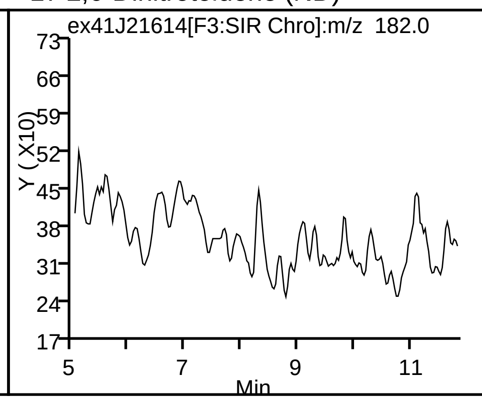
15 2,3-Dinitrotoluene (ND)



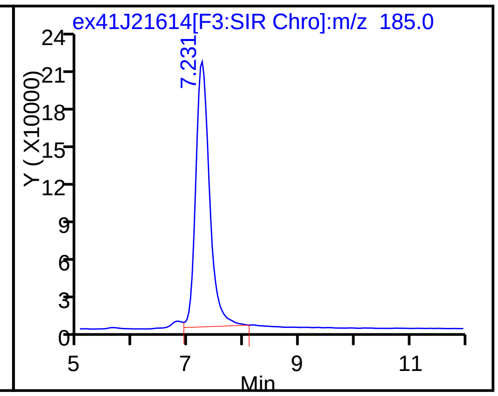
16 2-Amino-4,6-dinitrotoluene (ND)



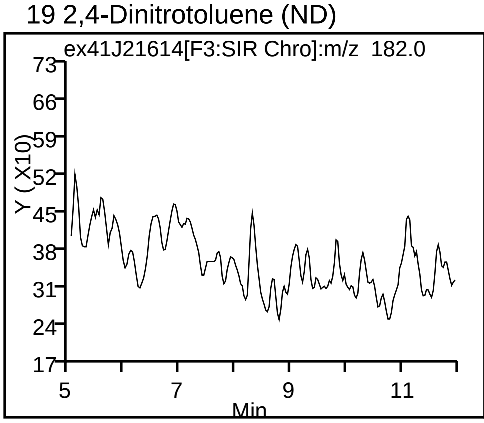
17 2,6-Dinitrotoluene (ND)



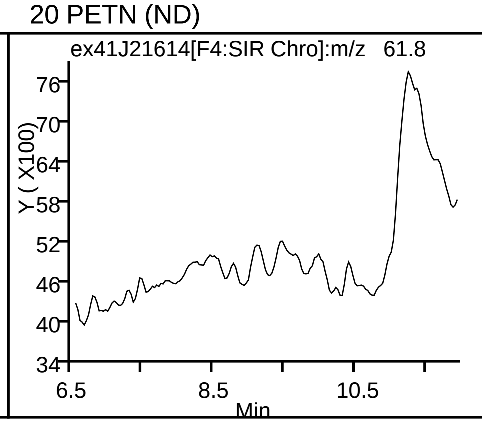
* 18 2,4-dinitrotoluene-d3



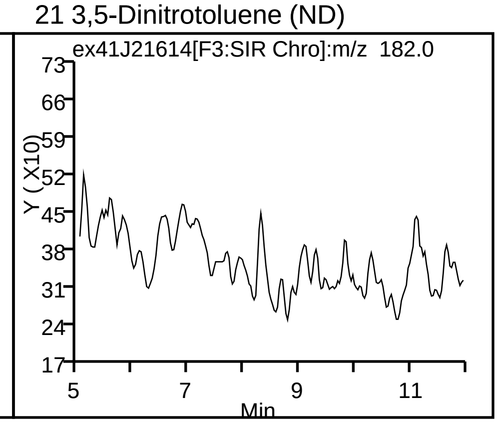
19 2,4-Dinitrotoluene (ND)



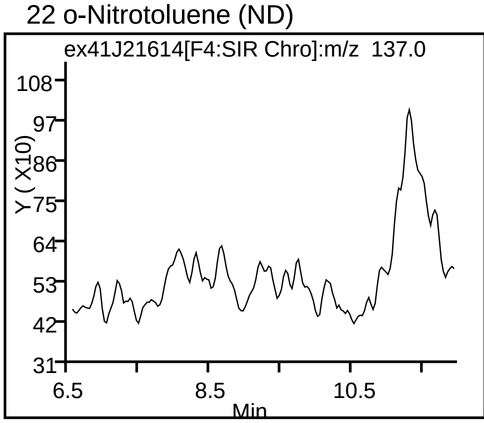
20 PETN (ND)



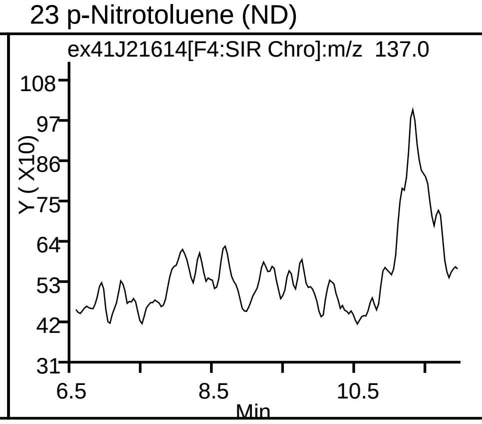
21 3,5-Dinitrotoluene (ND)



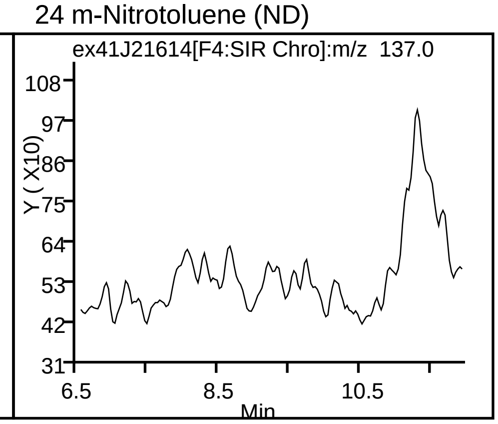
22 o-Nitrotoluene (ND)



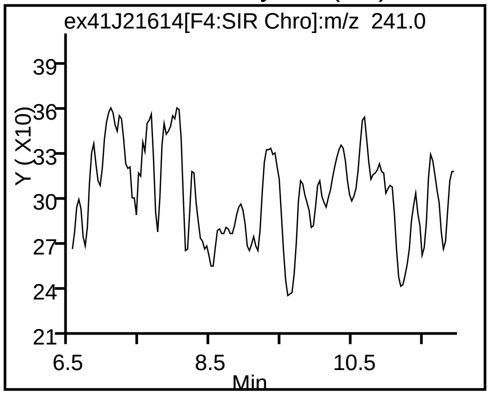
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-92311/1-A

Matrix: Solid Lab File ID: ex41J21560.d

Analysis Method: 8321B Date Collected:

Extraction Method: 8330B Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.21(g) Date Analyzed: 11/01/2011 11:14

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.098	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.098	0.024	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.098	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.098	0.024	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.098	0.024	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0050
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	88		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21560.d		
Lims ID:	MB 280-92311/1-A	Client ID:	
Inject. Date:	01-Nov-2011 11:14:45	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 280-92311/1-A 280-0002689-084		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	27
Lims Batch ID:	94192	Lims Sample ID:	84
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:15	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		677946	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2157242	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1324486	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	566620	86.6			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.837							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.231	0.000		4024668	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									
4	61.8		7.737							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									1
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

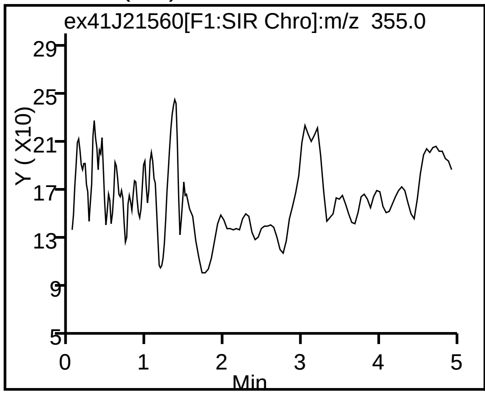
QC Flag Legend

Processing Flags
1 - Missing Peaks

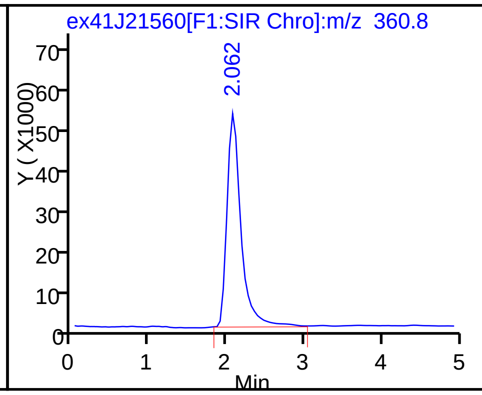
Report Date: 02-Nov-2011 06:41:16 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21560.d

Injection Date:	01-Nov-2011 11:14:45	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	84
Operator ID:		Injection Vol:	40.00 ul

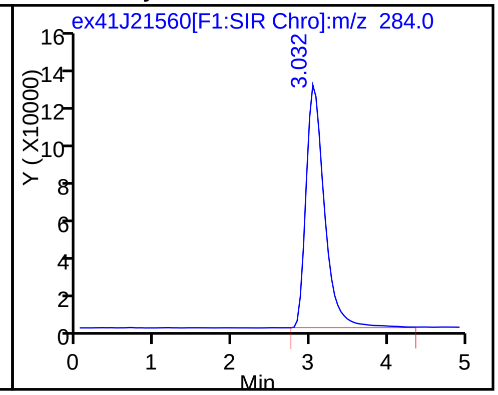
2 HMX (ND)



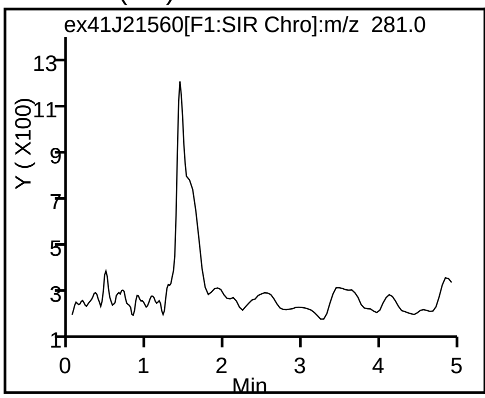
* 1 HMX-13C4



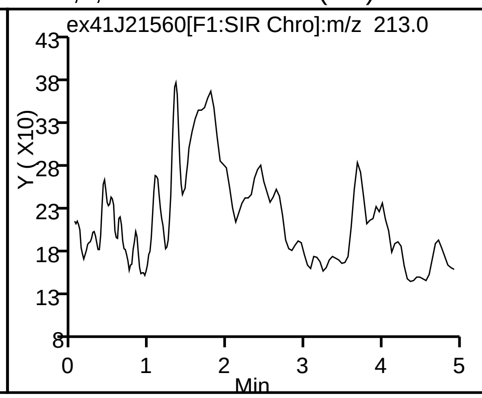
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



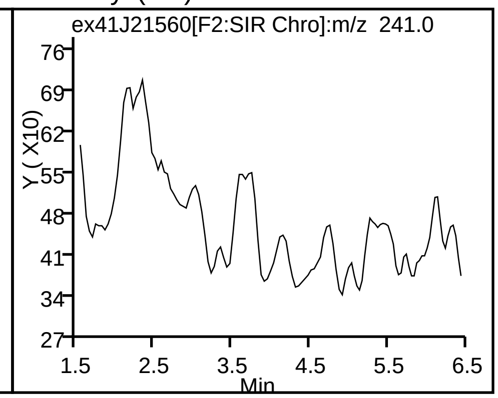
4 RDX (ND)



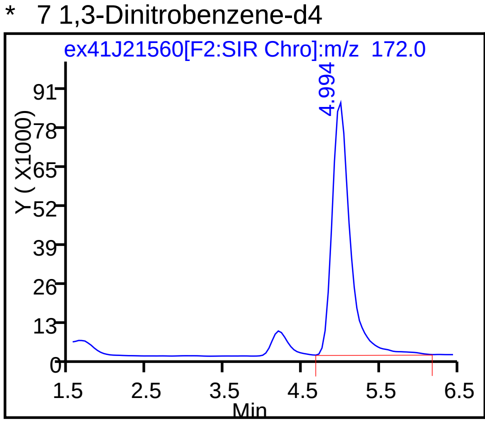
5 1,3,5-Trinitrobenzene (ND)



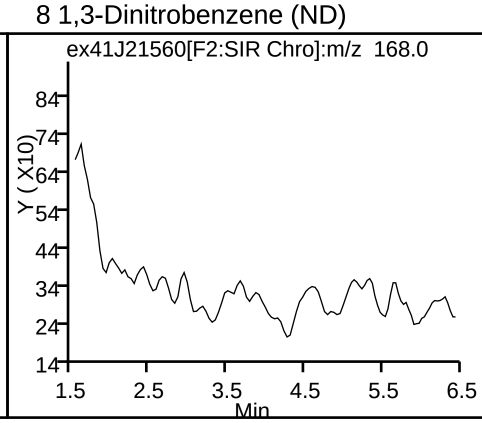
6 Tetryl (ND)



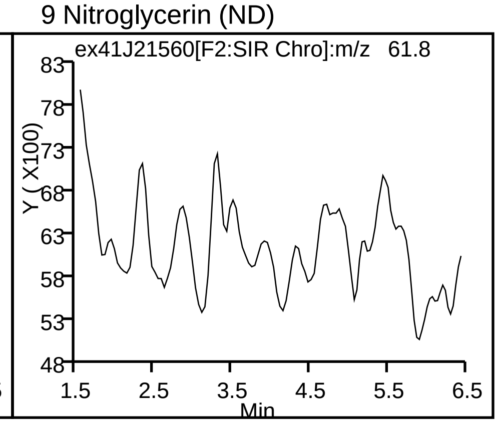
* 7 1,3-Dinitrobenzene-d4



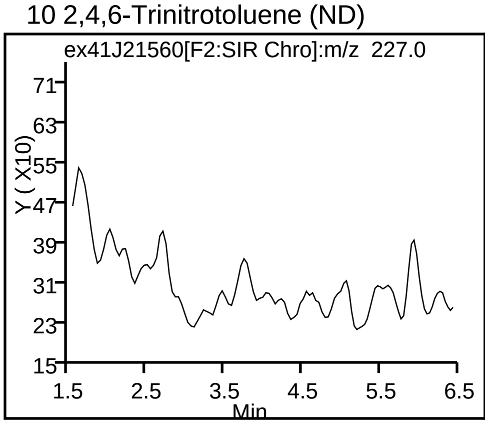
8 1,3-Dinitrobenzene (ND)



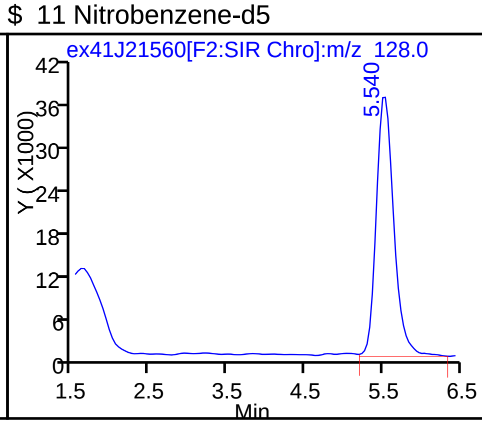
9 Nitroglycerin (ND)



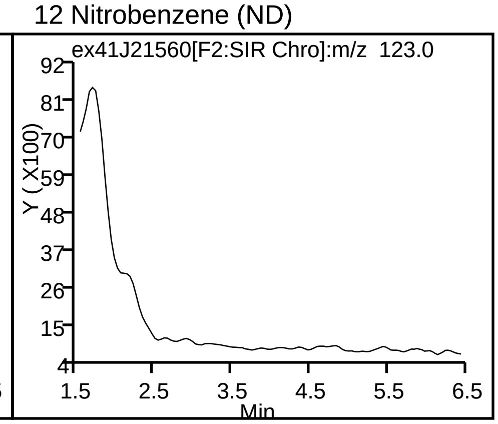
10 2,4,6-Trinitrotoluene (ND)



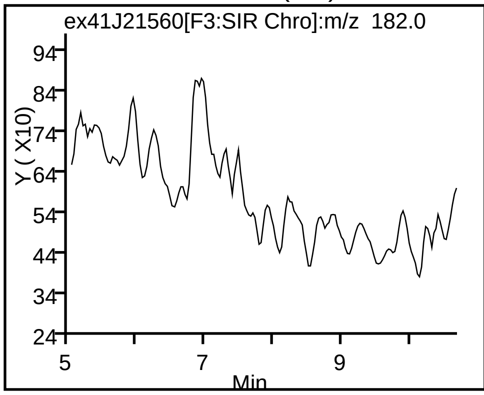
$ 11 Nitrobenzene-d5



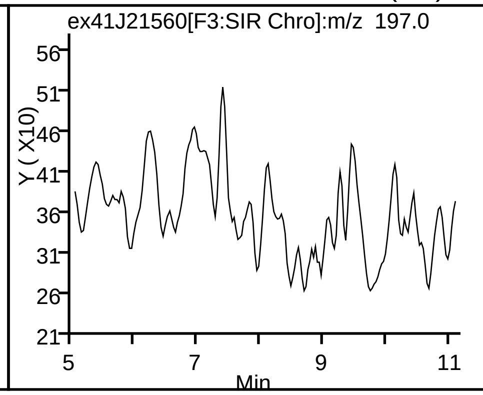
12 Nitrobenzene (ND)



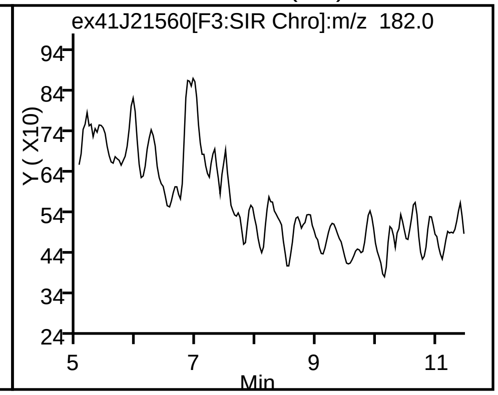
13 3,4-Dinitrotoluene (ND)



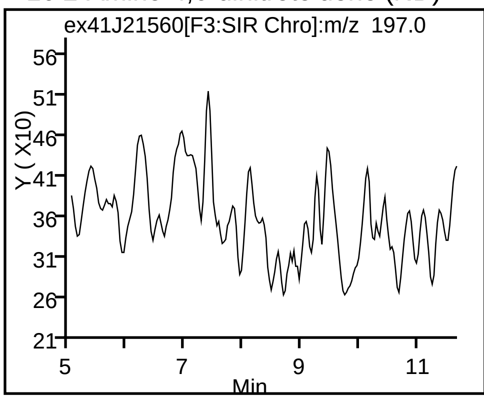
14 4-Amino-2,6-dinitrotoluene (ND)



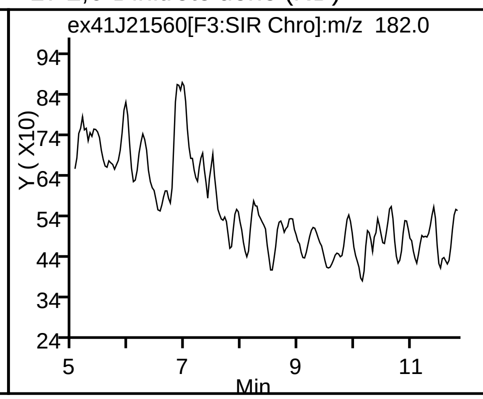
15 2,3-Dinitrotoluene (ND)



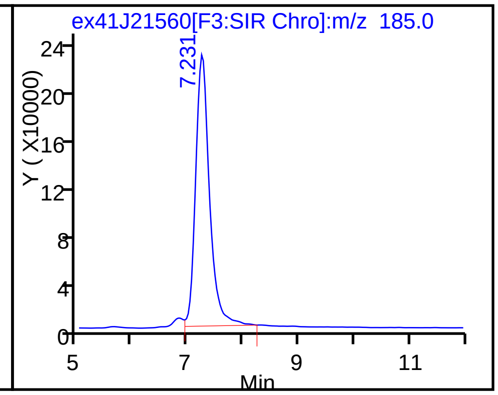
16 2-Amino-4,6-dinitrotoluene (ND)



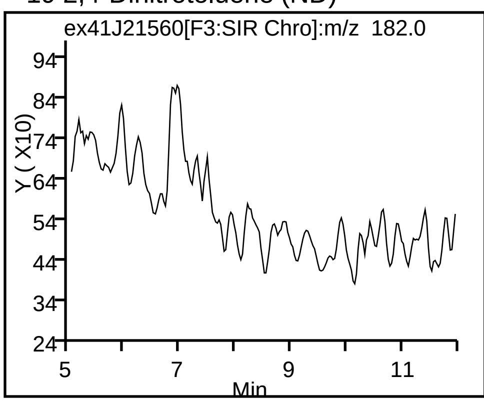
17 2,6-Dinitrotoluene (ND)



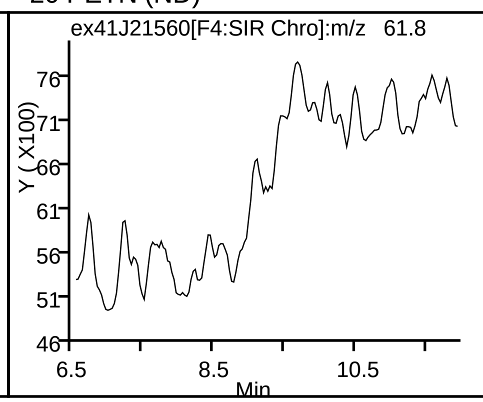
* 18 2,4-dinitrotoluene-d3



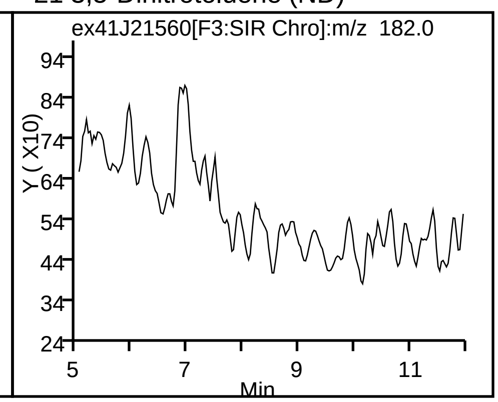
19 2,4-Dinitrotoluene (ND)



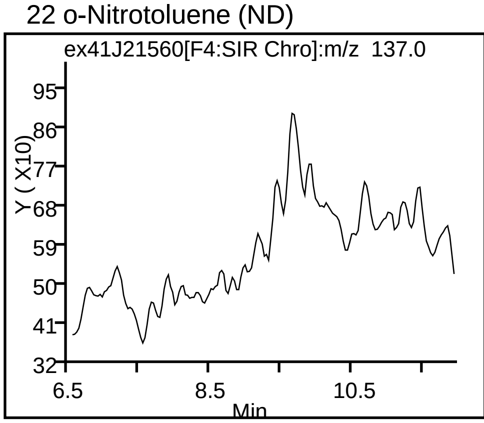
20 PETN (ND)



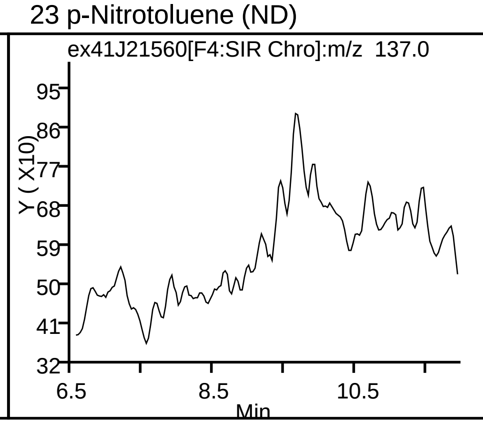
21 3,5-Dinitrotoluene (ND)



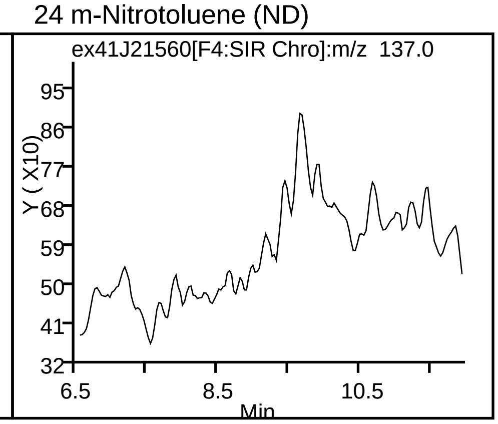
22 o-Nitrotoluene (ND)



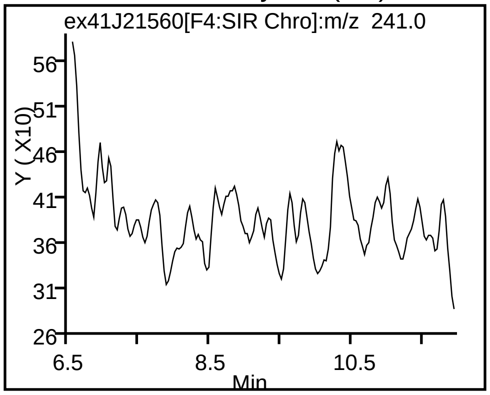
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver　　Job No.: 280-21683-1

SDG No.:

Client Sample ID:　　Lab Sample ID: MB 280-92314/1-A

Matrix: Solid　　Lab File ID: ex41J21154.d

Analysis Method: 8321B　　Date Collected:

Extraction Method: 8330B　　Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.05(g)　　Date Analyzed: 10/25/2011 13:47

Con. Extract Vol.: 40(mL)　　Dilution Factor: 1

Injection Volume: 40(uL)　　GC Column: IonPac　　ID: 2(mm)

% Moisture:　　GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961　　Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21154.d		
Lims ID:	MB 280-92314/1-A	Client ID:	
Inject. Date:	25-Oct-2011 13:47:07	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 280-92314/1-A 280-0002644-149		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	21
Lims Batch ID:	92961	Lims Sample ID:	149
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:27:03	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 26-Oct-2011 06:08:46

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		1003518	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3323475	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1858754	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.506	-0.034	1.105	691242	75.2			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.201	-0.031		5373114	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

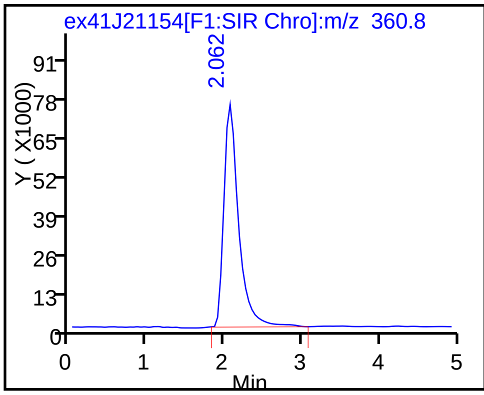
QC Flag Legend

Processing Flags
1 - Missing Peaks

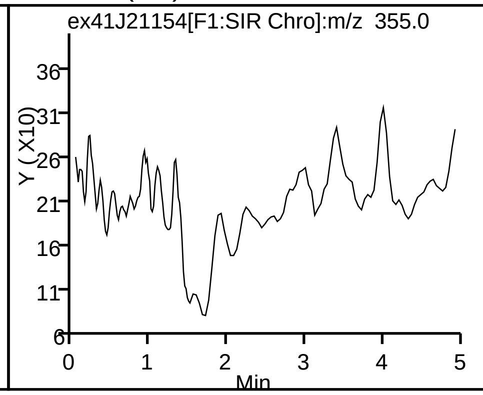
Report Date: 26-Oct-2011 06:24:06 | Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21154.d

Injection Date:	25-Oct-2011 13:47:07	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	149
Operator ID:		Injection Vol:	40.00 ul

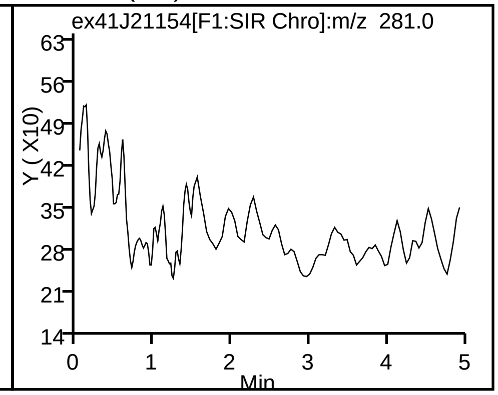
* 1 HMX-13C4



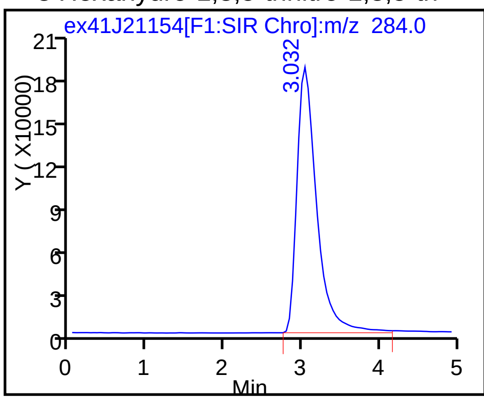
2 HMX (ND)



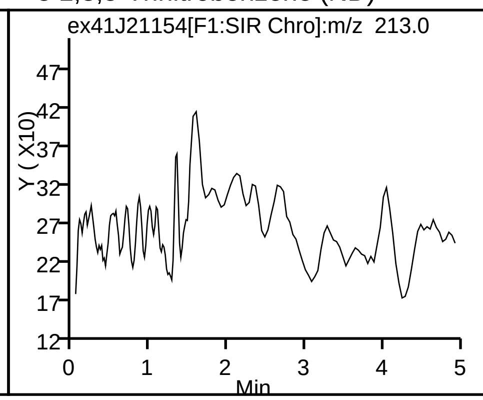
4 RDX (ND)



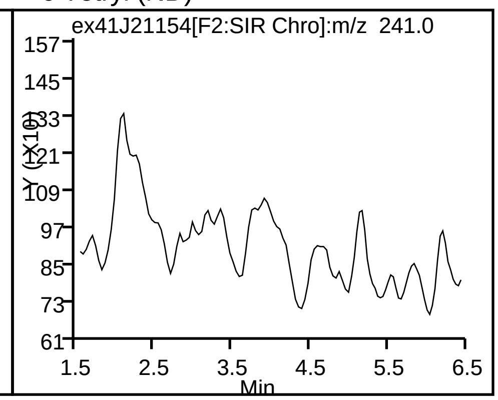
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



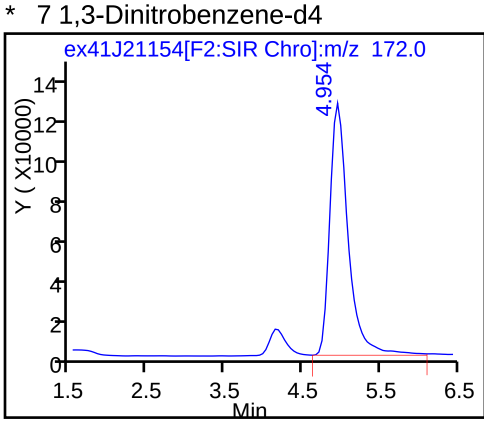
5 1,3,5-Trinitrobenzene (ND)



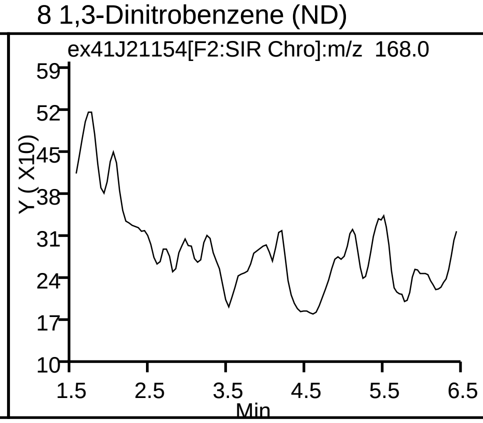
6 Tetryl (ND)



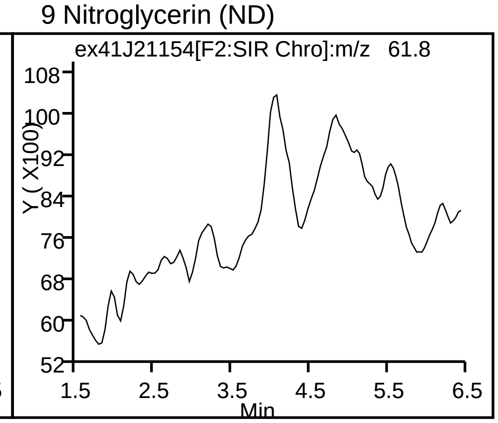
* 7 1,3-Dinitrobenzene-d4



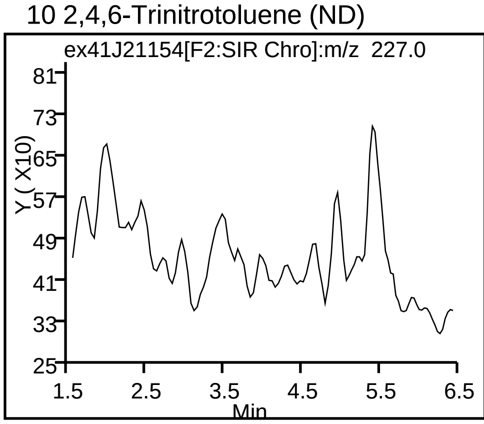
8 1,3-Dinitrobenzene (ND)



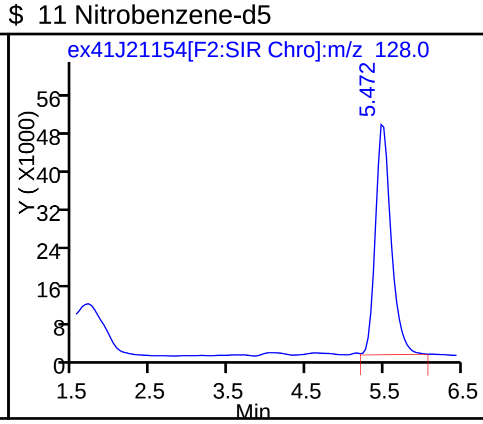
9 Nitroglycerin (ND)



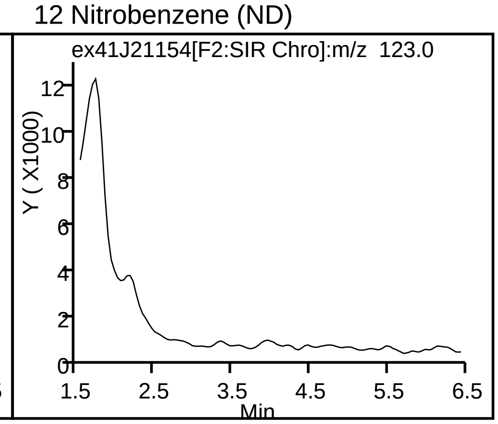
10 2,4,6-Trinitrotoluene (ND)



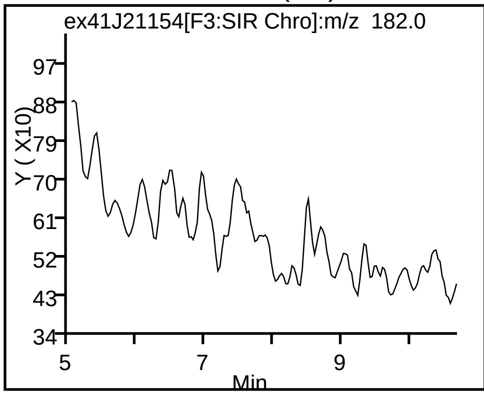
$ 11 Nitrobenzene-d5



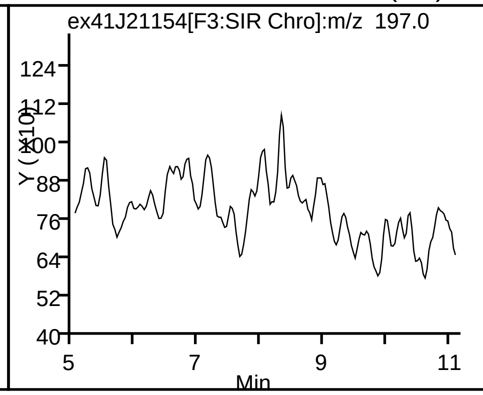
12 Nitrobenzene (ND)



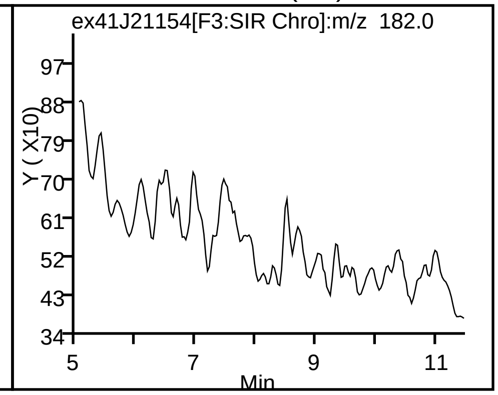
13 3,4-Dinitrotoluene (ND)



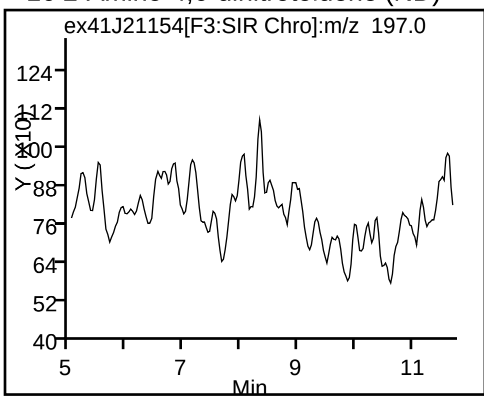
14 4-Amino-2,6-dinitrotoluene (ND)



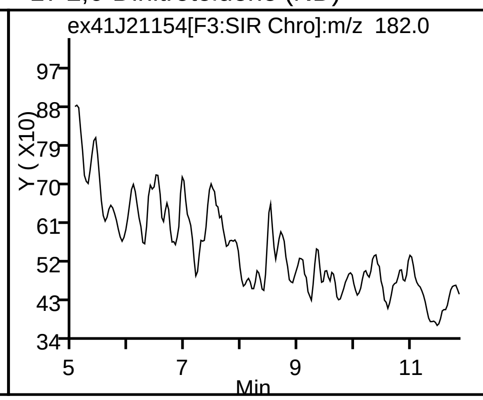
15 2,3-Dinitrotoluene (ND)



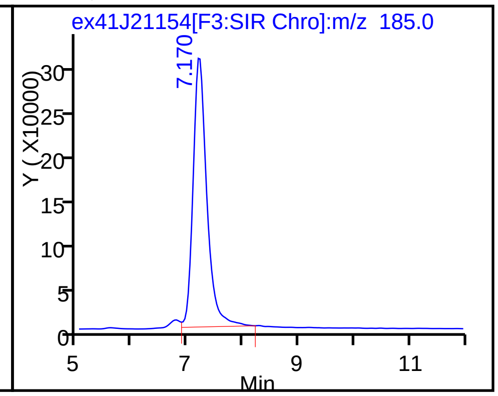
16 2-Amino-4,6-dinitrotoluene (ND)



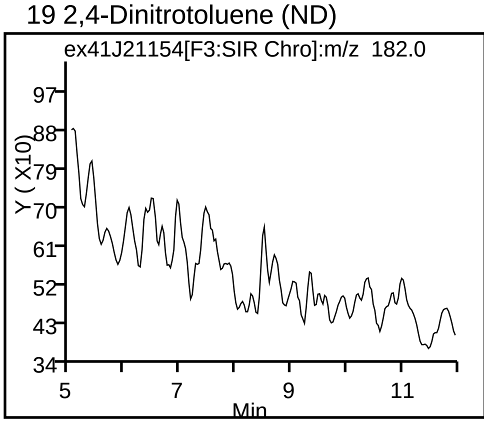
17 2,6-Dinitrotoluene (ND)



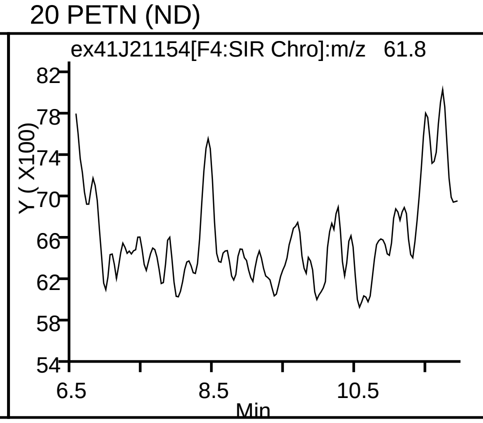
* 18 2,4-dinitrotoluene-d3



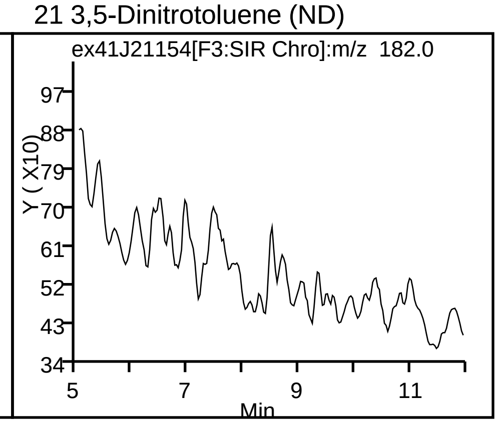
19 2,4-Dinitrotoluene (ND)



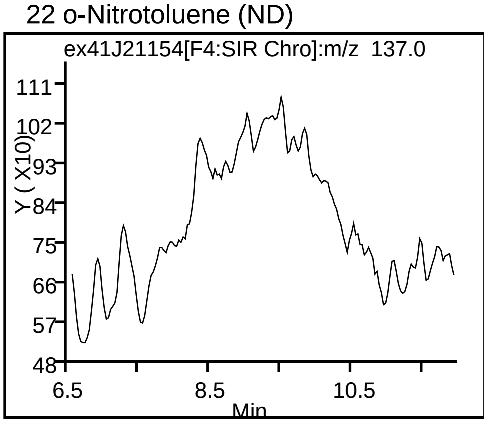
20 PETN (ND)



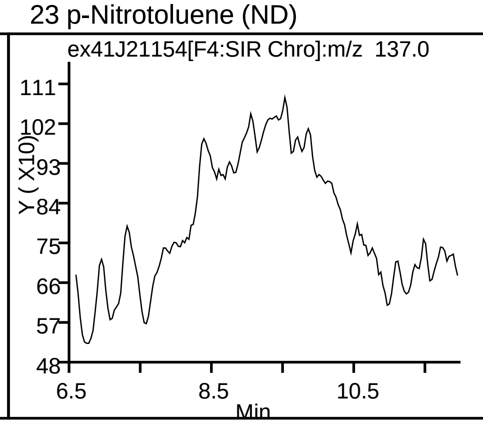
21 3,5-Dinitrotoluene (ND)



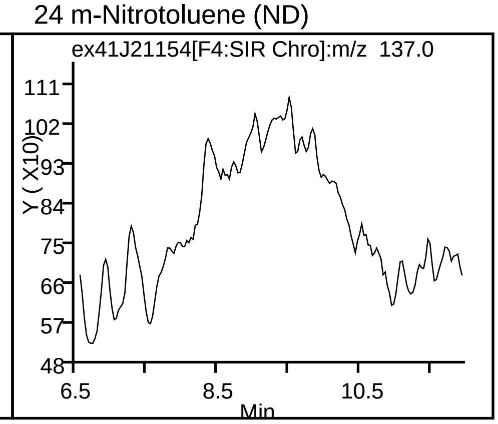
22 o-Nitrotoluene (ND)



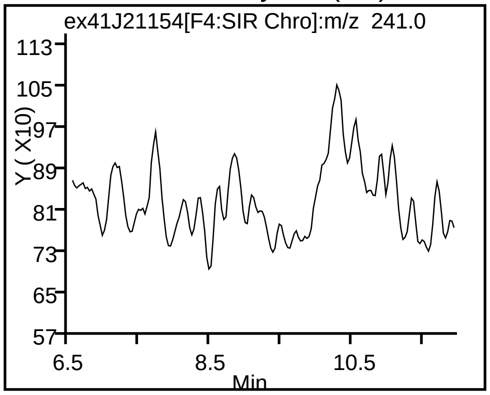
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-92315/1-A

Matrix: Solid   Lab File ID: ex41J21181.d

Analysis Method: 8321B   Date Collected:

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:15

Sample wt/vol: 10.81(g)   Date Analyzed: 10/25/2011 19:55

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92964   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.093	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0097
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21181.d		
Lims ID:	MB 280-92315/1-A	Client ID:	
Inject. Date:	25-Oct-2011 19:55:50	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 280-92315/1-A 280-0002644-176		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	45
Lims Batch ID:	92964	Lims Sample ID:	176
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:06	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		1012303	250.0			
2 HMX										1
1	355.0		2.062							
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3227721	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1717593	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.068							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.540	-0.034	1.111	693238	81.7			
12 Nitrobenzene										1
2	123.0		5.674							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							
15 2,3-Dinitrotoluene										1
3	182.0		6.563							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.745							
17 2,6-Dinitrotoluene										1
3	182.0		6.897							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.262	-0.061		4936321	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.322							
20 PETN										
4	61.8		7.828							
21 3,5-Dinitrotoluene										1
3	182.0		7.960							
22 o-Nitrotoluene										1
4	137.0		8.345							
23 p-Nitrotoluene										1
4	137.0		8.891							
24 m-Nitrotoluene										1
4	137.0		9.559							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.440							

QC Flag Legend

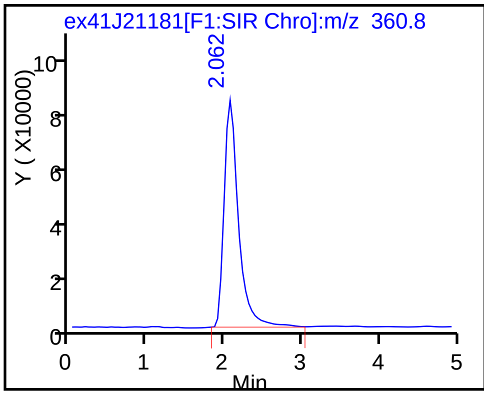
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 09:44:08 Chrom Revision: 1.2 13-Jul-2011 10:43:06

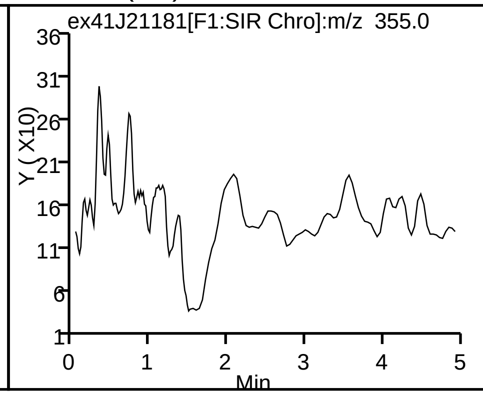
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21181.d

Injection Date:	25-Oct-2011 19:55:50	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	176
Operator ID:		Injection Vol:	40.00 ul

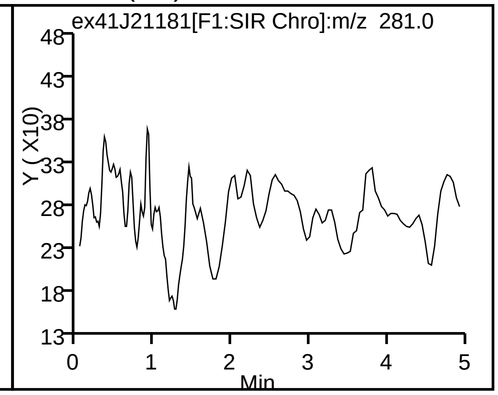
* 1 HMX-13C4



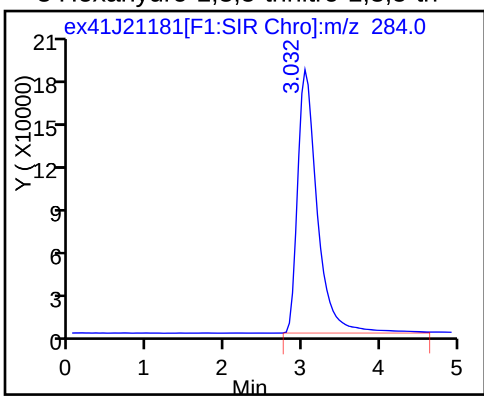
2 HMX (ND)



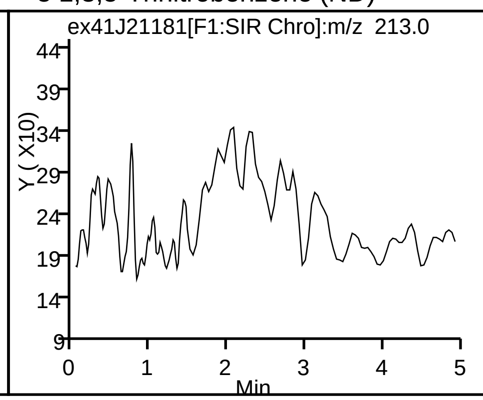
4 RDX (ND)



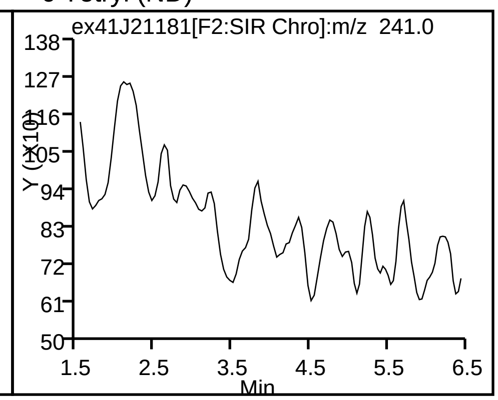
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



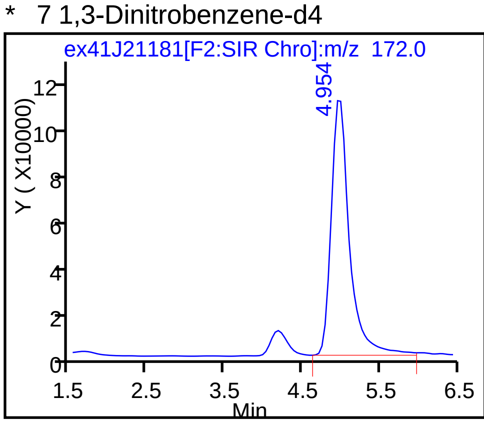
5 1,3,5-Trinitrobenzene (ND)



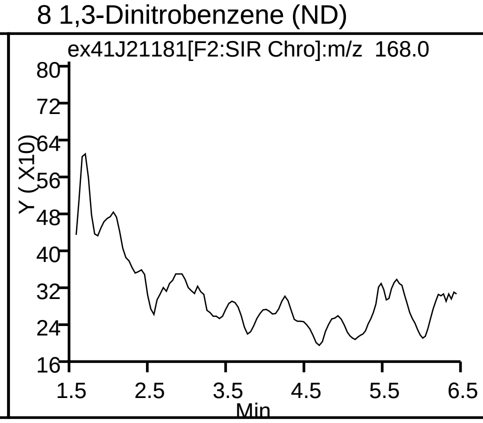
6 Tetryl (ND)



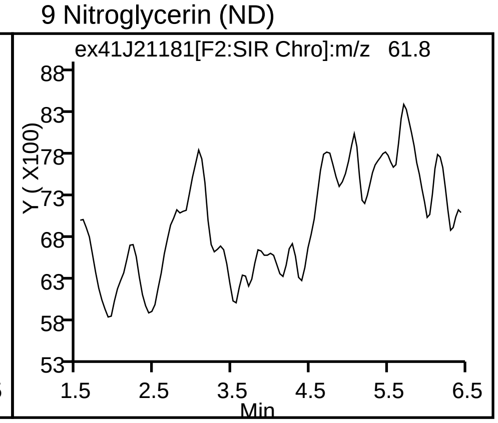
* 7 1,3-Dinitrobenzene-d4



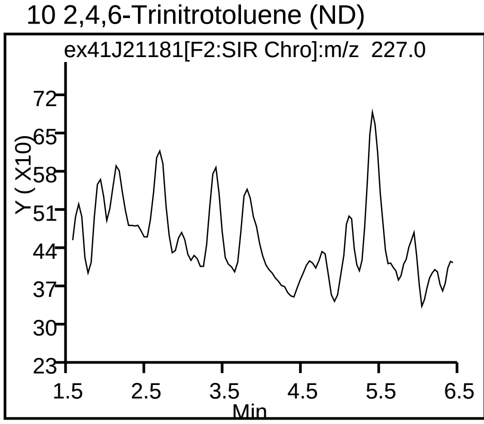
8 1,3-Dinitrobenzene (ND)



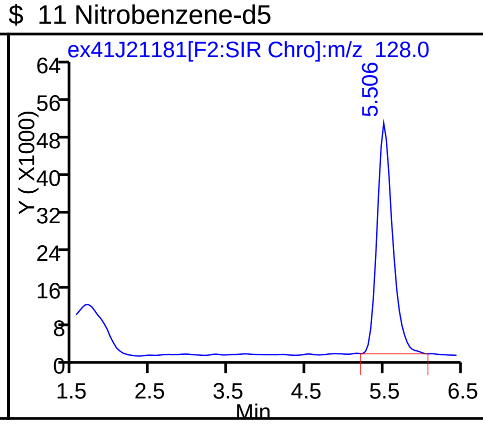
9 Nitroglycerin (ND)



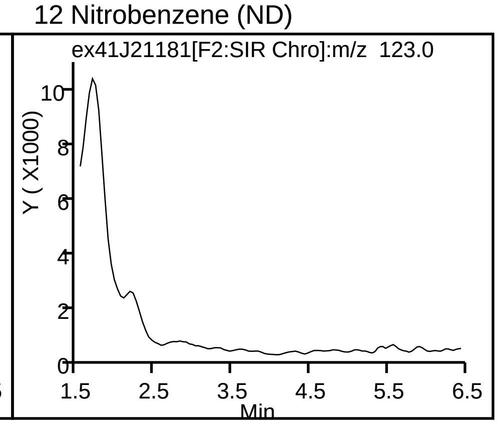
10 2,4,6-Trinitrotoluene (ND)



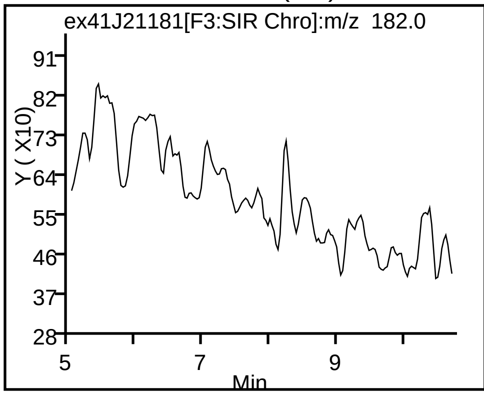
$ 11 Nitrobenzene-d5



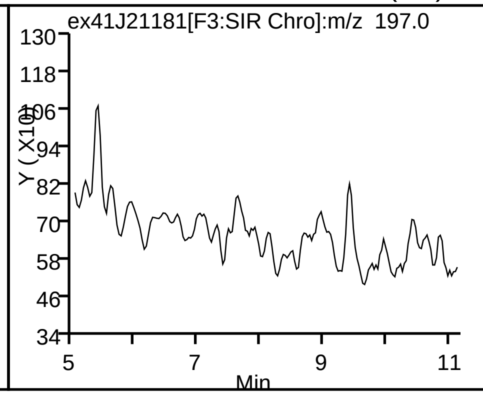
12 Nitrobenzene (ND)



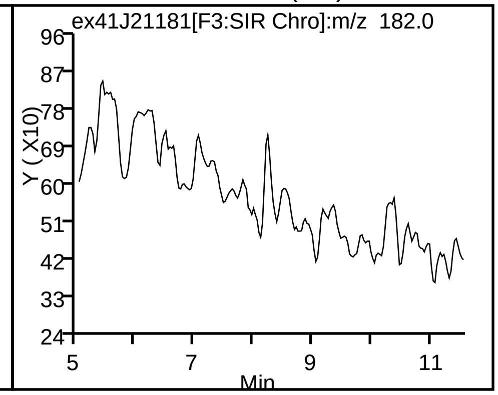
13 3,4-Dinitrotoluene (ND)



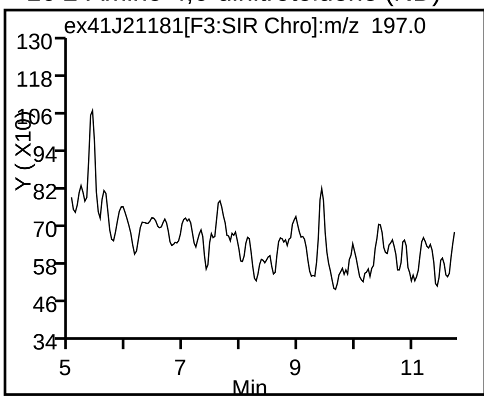
14 4-Amino-2,6-dinitrotoluene (ND)



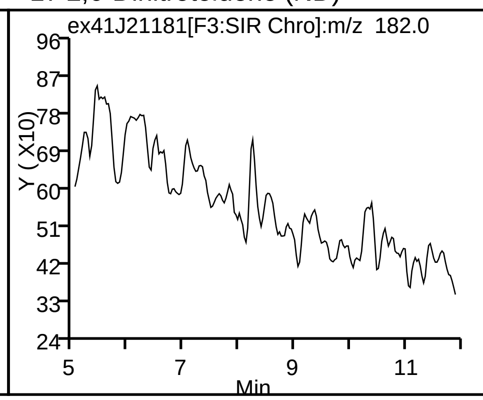
15 2,3-Dinitrotoluene (ND)



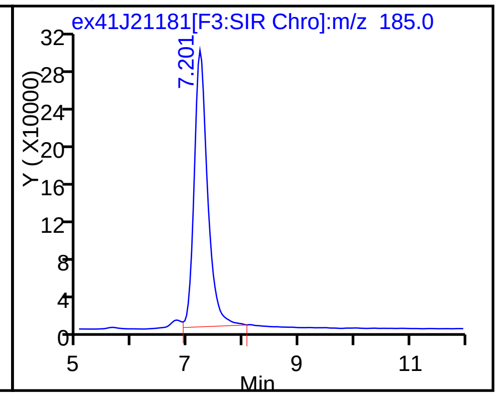
16 2-Amino-4,6-dinitrotoluene (ND)



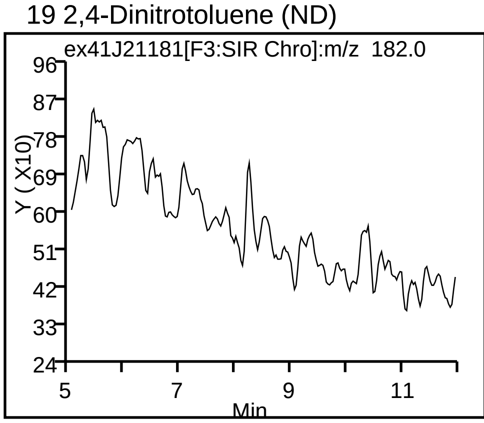
17 2,6-Dinitrotoluene (ND)



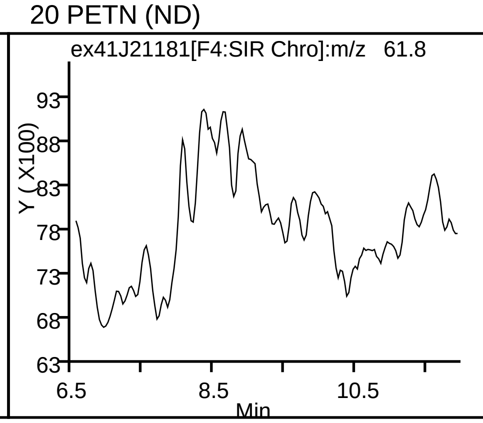
* 18 2,4-dinitrotoluene-d3



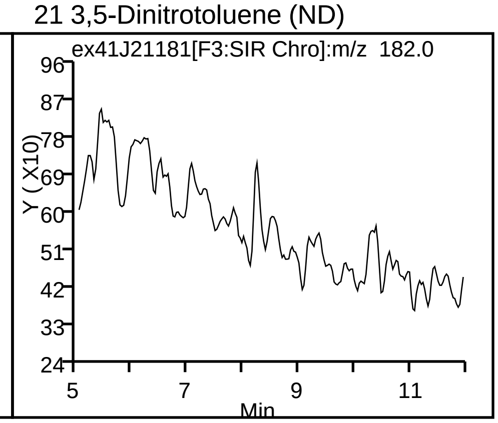
19 2,4-Dinitrotoluene (ND)



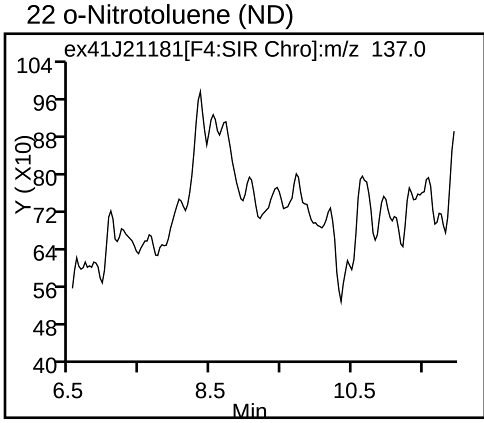
20 PETN (ND)



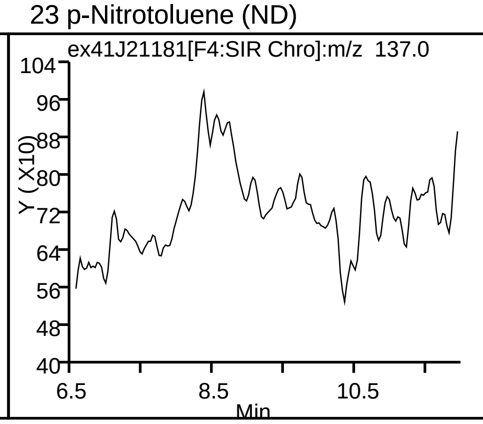
21 3,5-Dinitrotoluene (ND)



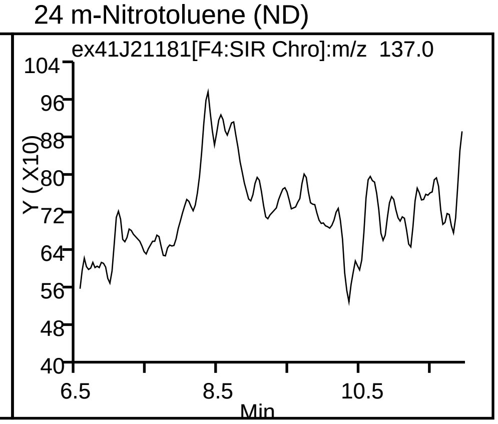
22 o-Nitrotoluene (ND)



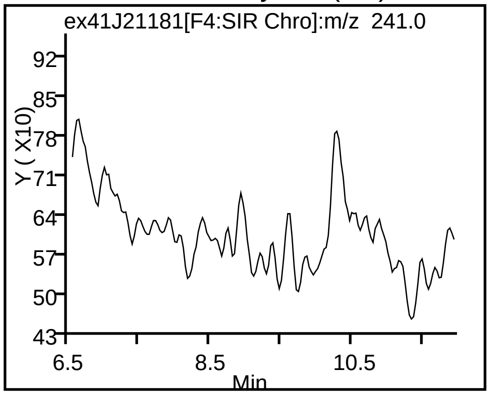
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-93548/1-A

Matrix: Solid | Lab File ID: ex41J21641.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 8330B | Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.28(g) | Date Analyzed: 11/02/2011 05:42

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac | ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21641.d		
Lims ID:	MB 280-93548/1-A	Client ID:	
Inject. Date:	02-Nov-2011 05:42:03	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 280-93548/1-A 280-0002689-165		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	99
Lims Batch ID:	94252	Lims Sample ID:	165
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		618471	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1915623	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1391829	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	558376	81.2			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		3171776	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

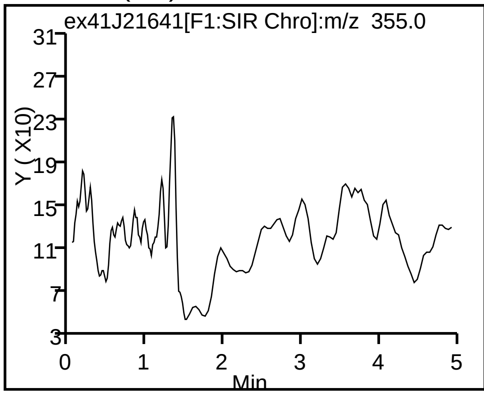
QC Flag Legend

Processing Flags
1 - Missing Peaks

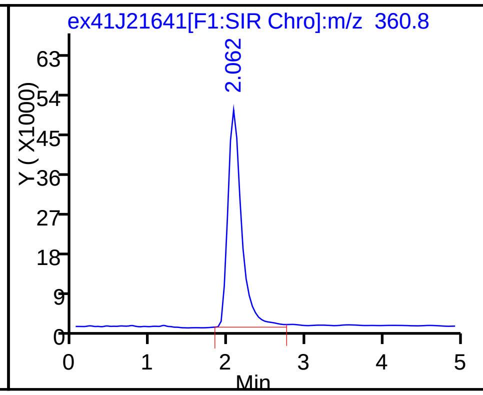
Report Date: 02-Nov-2011 10:22:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21641.d

Injection Date:	02-Nov-2011 05:42:03	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	165
Operator ID:		Injection Vol:	40.00 ul

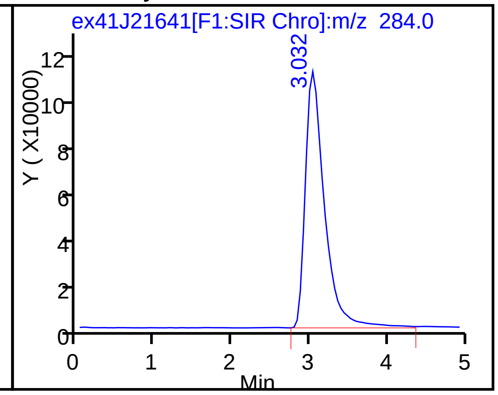
2 HMX (ND)



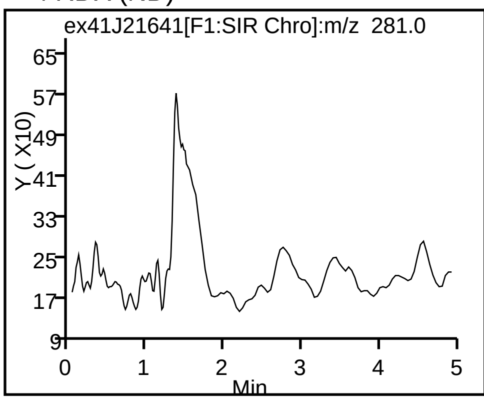
* 1 HMX-13C4



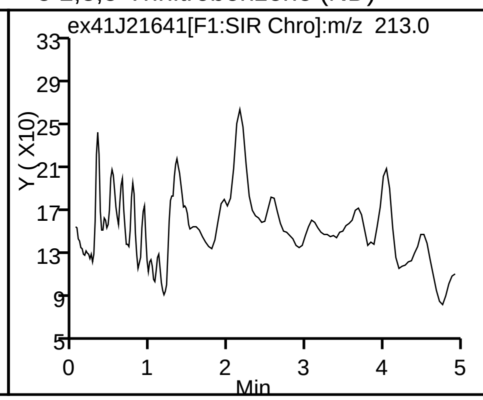
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



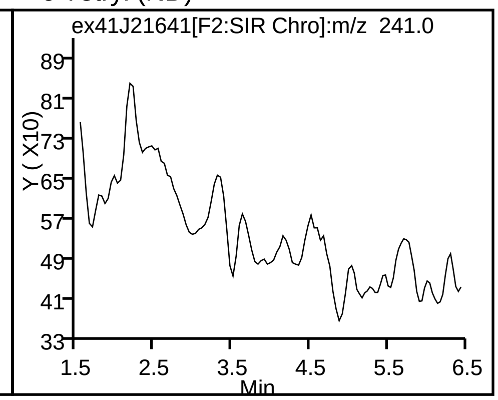
4 RDX (ND)



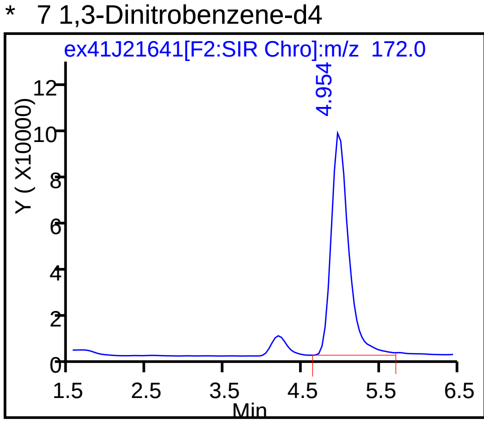
5 1,3,5-Trinitrobenzene (ND)



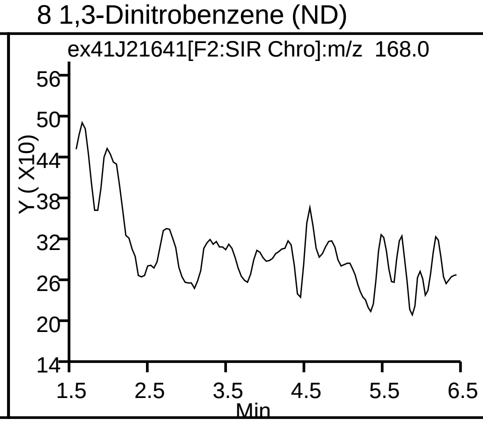
6 Tetryl (ND)



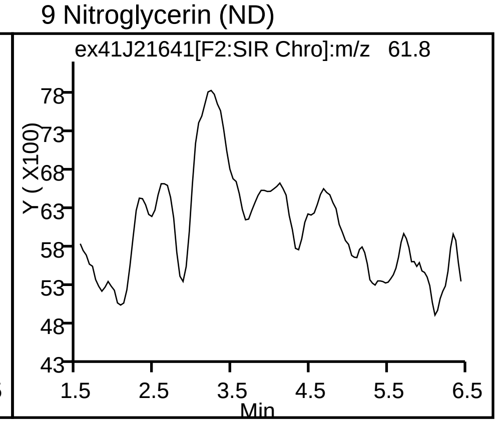
* 7 1,3-Dinitrobenzene-d4



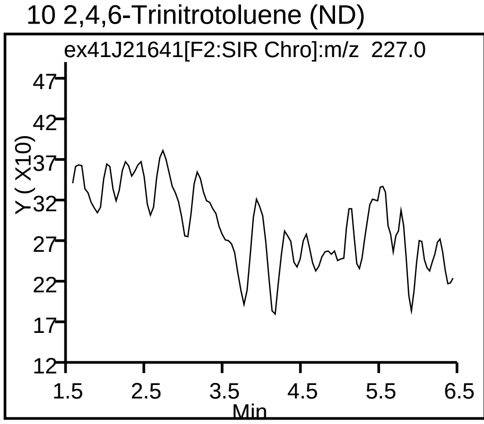
8 1,3-Dinitrobenzene (ND)



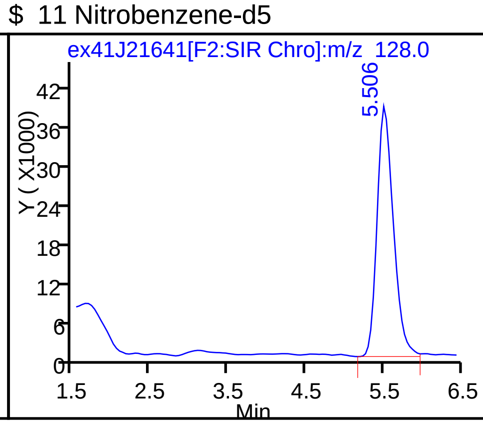
9 Nitroglycerin (ND)



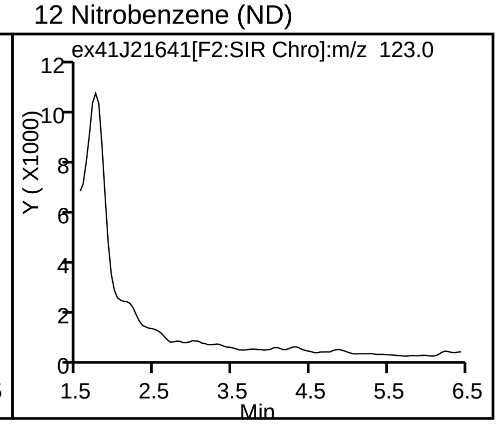
10 2,4,6-Trinitrotoluene (ND)



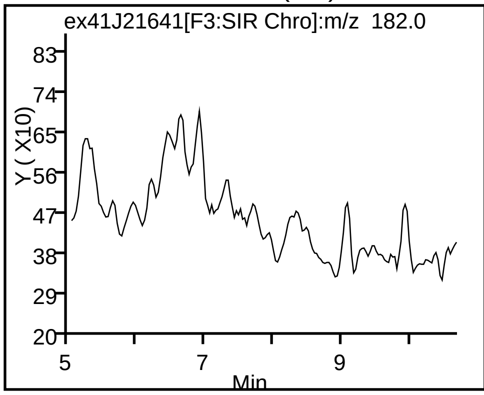
$ 11 Nitrobenzene-d5



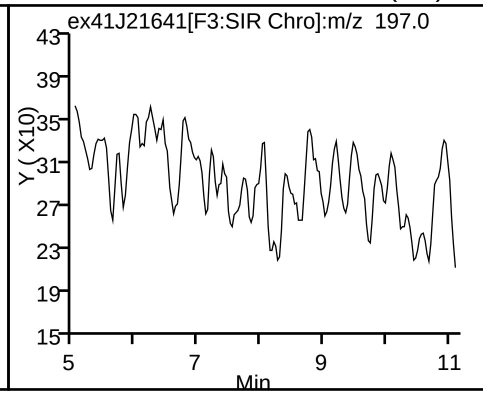
12 Nitrobenzene (ND)



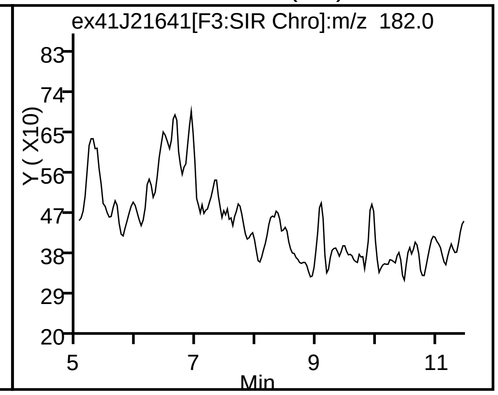
13 3,4-Dinitrotoluene (ND)



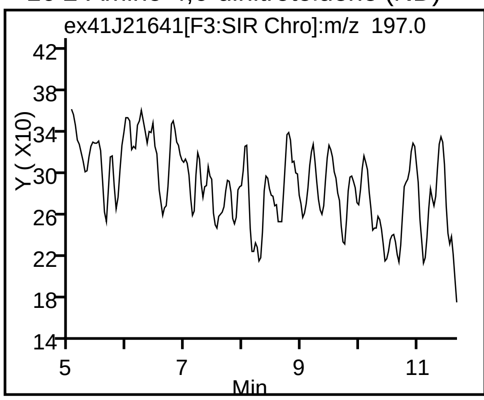
14 4-Amino-2,6-dinitrotoluene (ND)



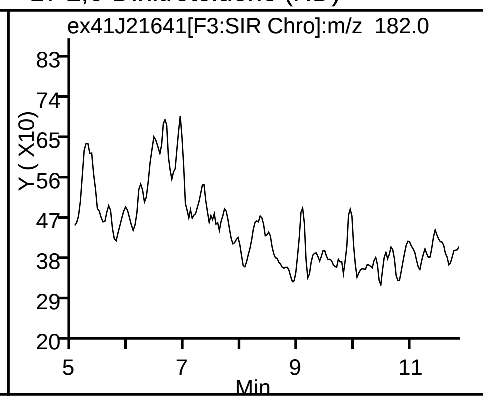
15 2,3-Dinitrotoluene (ND)



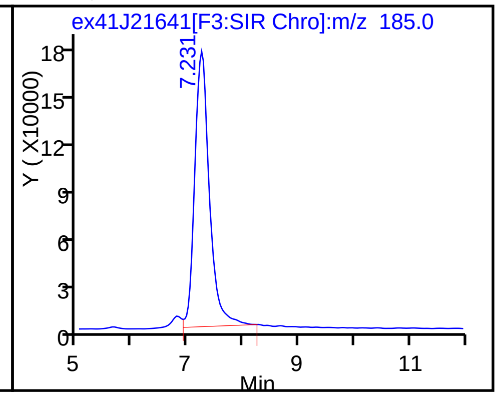
16 2-Amino-4,6-dinitrotoluene (ND)



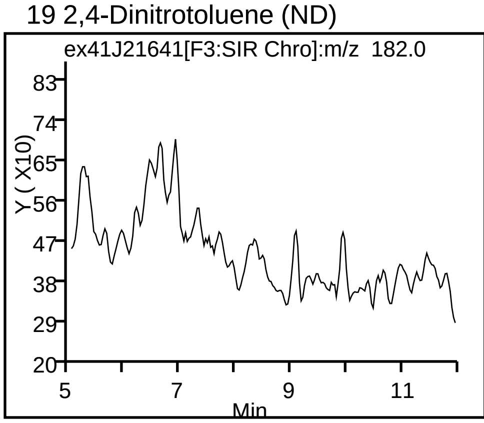
17 2,6-Dinitrotoluene (ND)



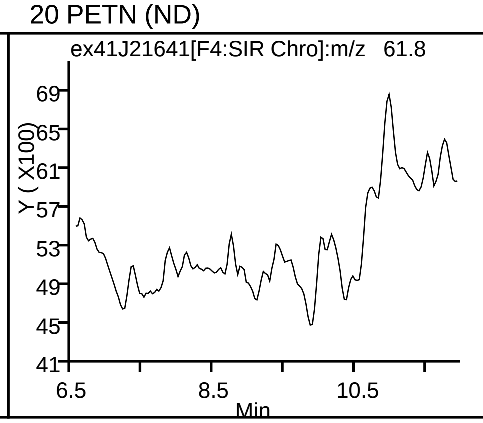
* 18 2,4-dinitrotoluene-d3



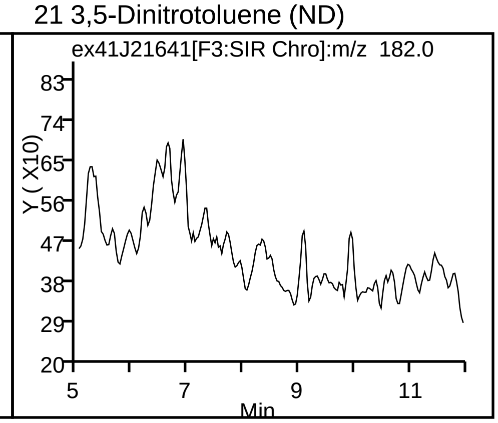
19 2,4-Dinitrotoluene (ND)



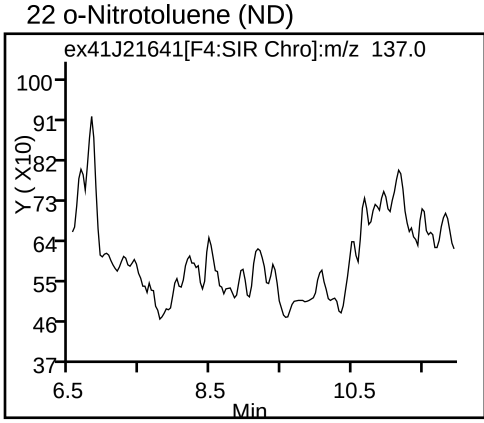
20 PETN (ND)



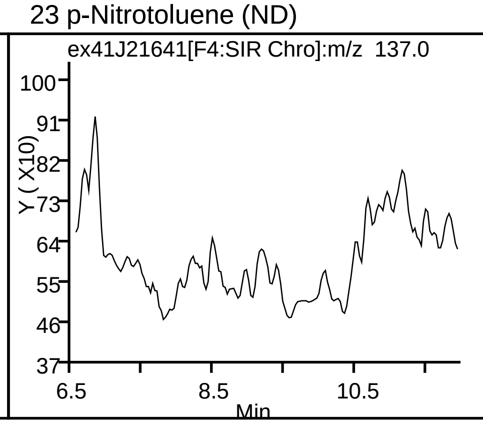
21 3,5-Dinitrotoluene (ND)



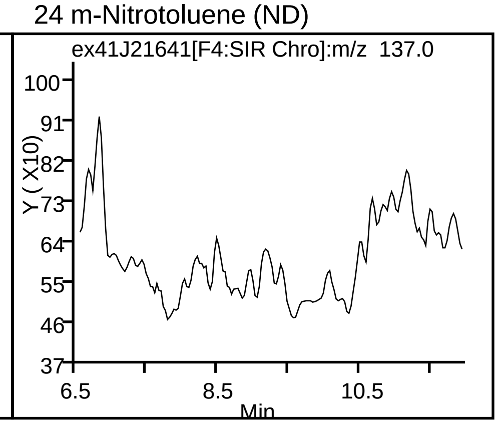
22 o-Nitrotoluene (ND)



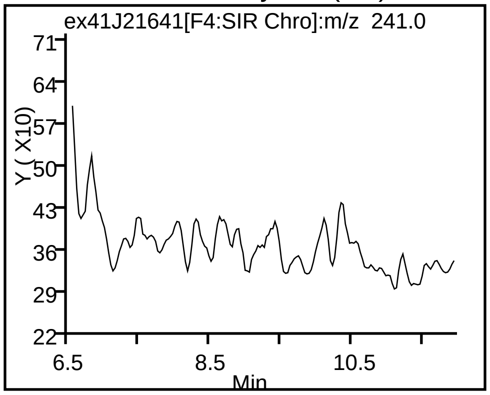
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: | Lab Sample ID: GB 280-92116/1-B

Matrix: Solid | Lab File ID: ex41J21643.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 8330B | Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.82(g) | Date Analyzed: 11/02/2011 06:09

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac | ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.092	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.092	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.0998		0.092	0.012	0.0046
121-14-2	2,4-Dinitrotoluene	0.012	U	0.092	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.092	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.092	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.092	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.092	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.092	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.092	0.023	0.010
2691-41-0	HMX	0.012	U	0.092	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.092	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.092	0.012	0.0097
78-11-5	PETN	0.012	U	0.092	0.012	0.0048
121-82-4	RDX	0.012	U	0.092	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.092	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	86		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21643.d		
Lims ID:	GB 280-92116/1-B	Client ID:	
Inject. Date:	02-Nov-2011 06:09:27	Dil. Factor:	1.0000
Sample Type:	GB		
Sample ID:	GB 280-92116/1-B 280-0002689-167		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	101
Lims Batch ID:	94252	Lims Sample ID:	167
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		617110	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2012248	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1191533	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.439	-0.034	1.091	606418	27.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	496977	84.5			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		3705461	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

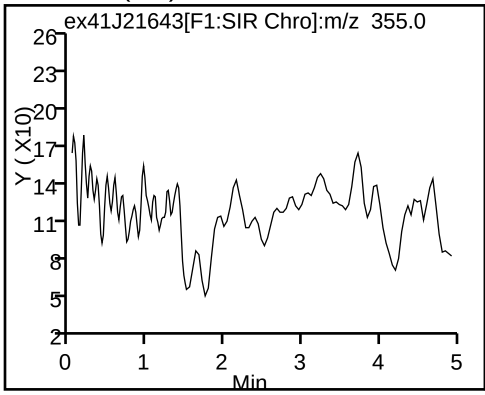
QC Flag Legend

Processing Flags
1 - Missing Peaks

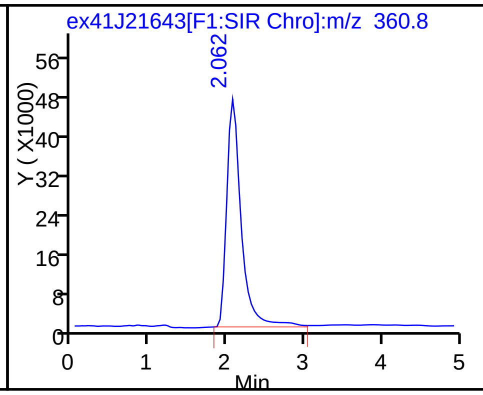
Report Date: 02-Nov-2011 10:22:25 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21643.d

Injection Date:	02-Nov-2011 06:09:27	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	167
Operator ID:		Injection Vol:	40.00 ul

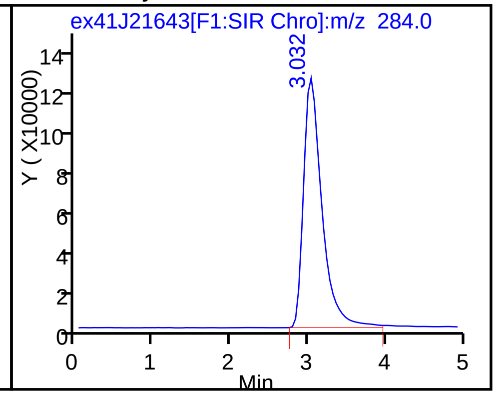
2 HMX (ND)



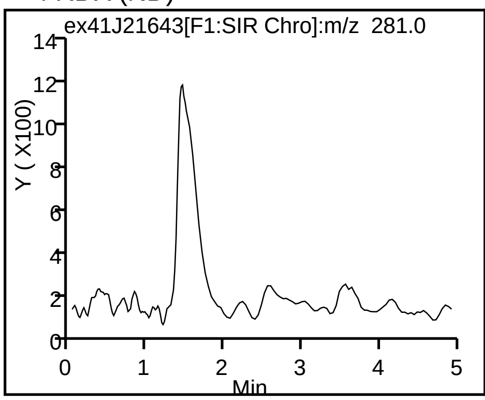
* 1 HMX-13C4



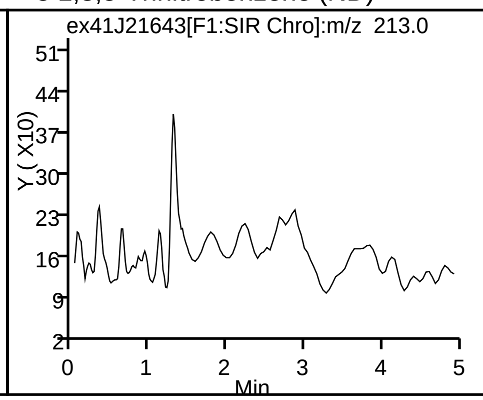
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



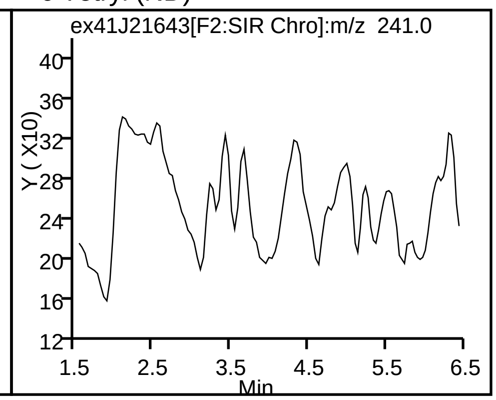
4 RDX (ND)



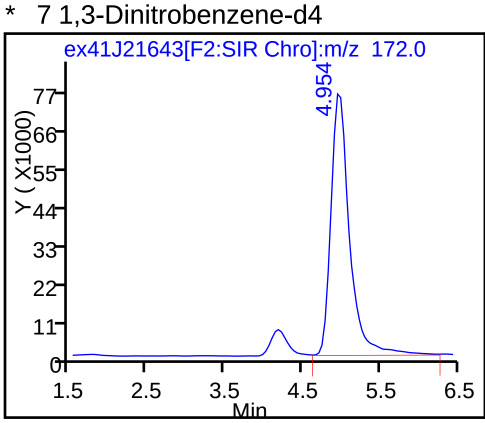
5 1,3,5-Trinitrobenzene (ND)



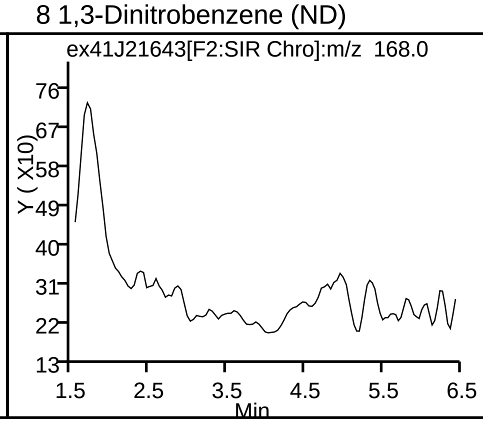
6 Tetryl (ND)



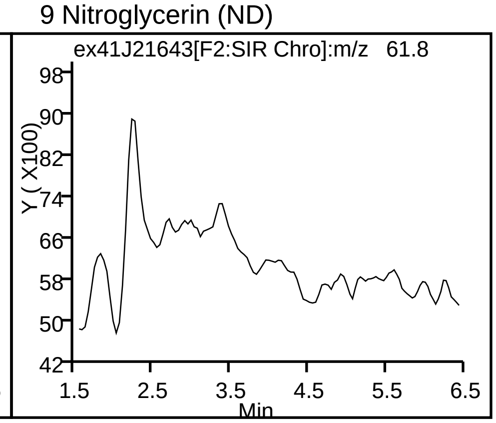
* 7 1,3-Dinitrobenzene-d4



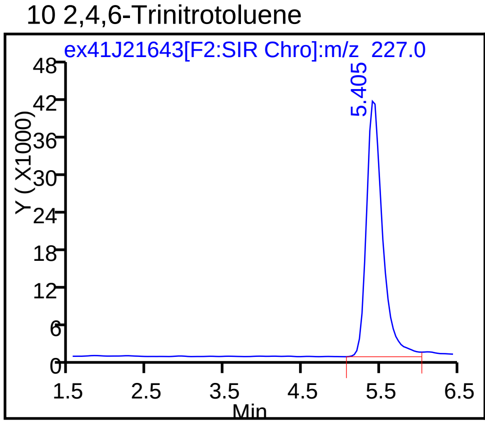
8 1,3-Dinitrobenzene (ND)



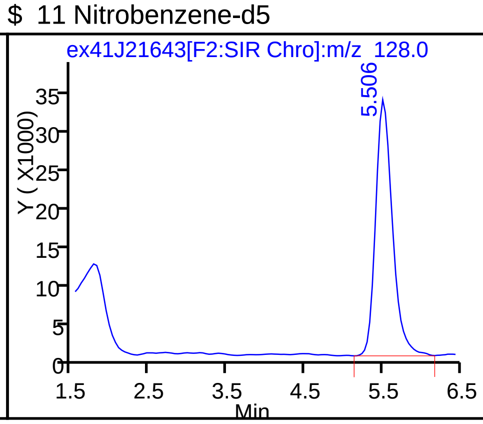
9 Nitroglycerin (ND)



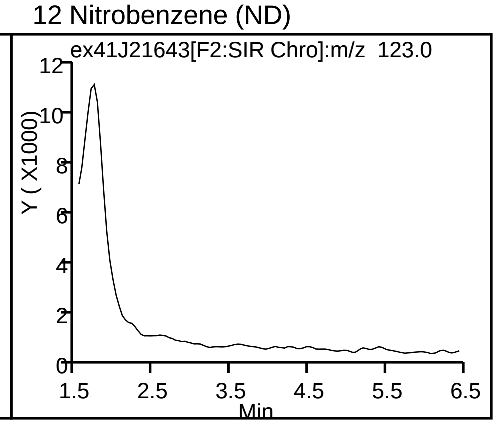
10 2,4,6-Trinitrotoluene



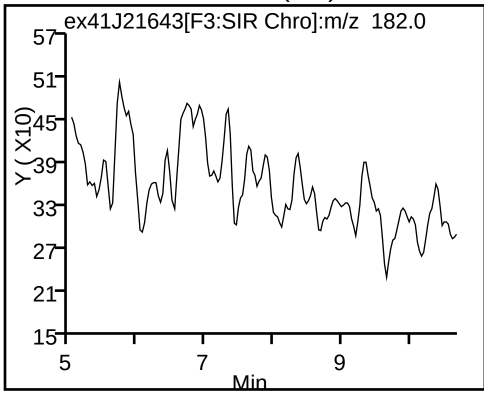
$ 11 Nitrobenzene-d5



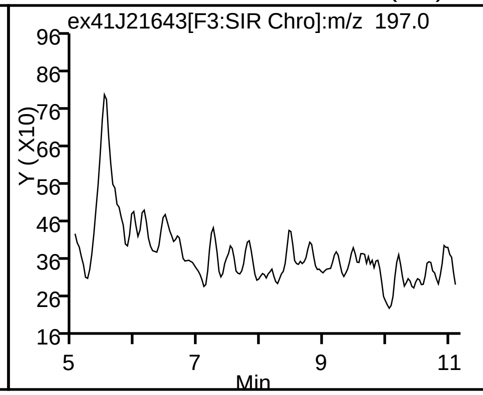
12 Nitrobenzene (ND)



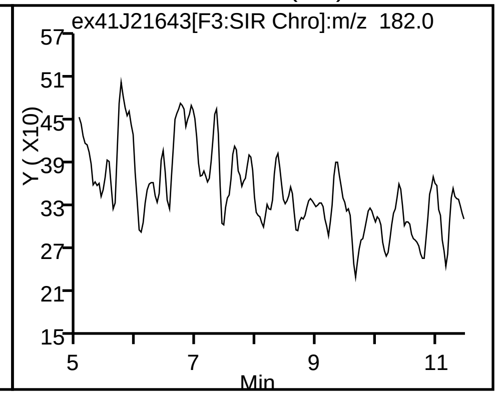
13 3,4-Dinitrotoluene (ND)



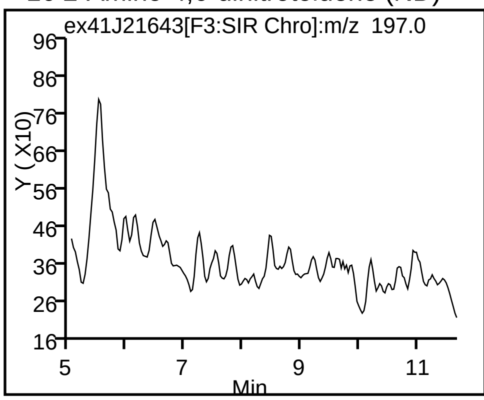
14 4-Amino-2,6-dinitrotoluene (ND)



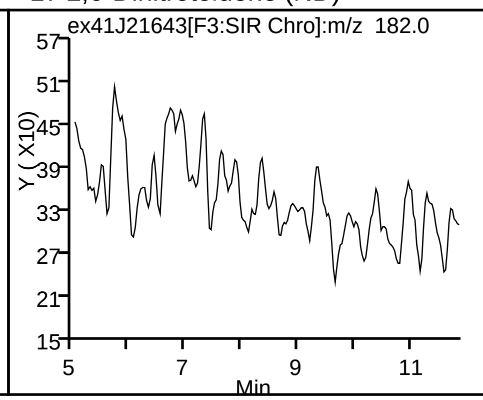
15 2,3-Dinitrotoluene (ND)



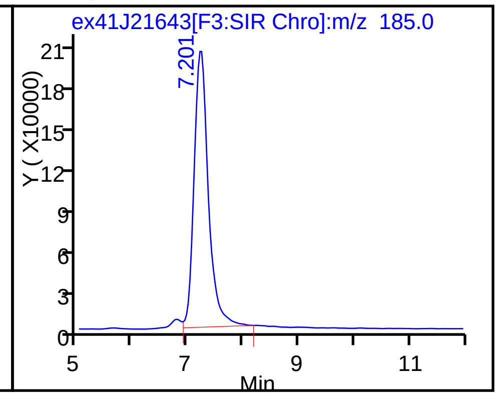
16 2-Amino-4,6-dinitrotoluene (ND)



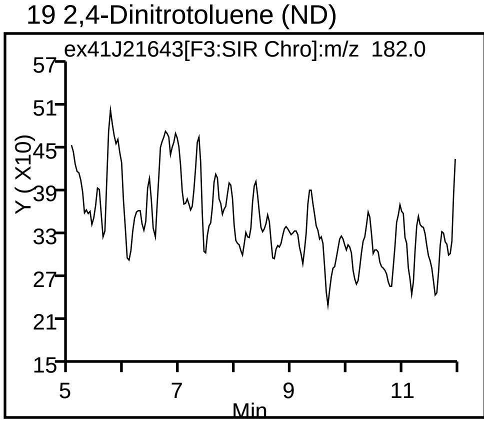
17 2,6-Dinitrotoluene (ND)



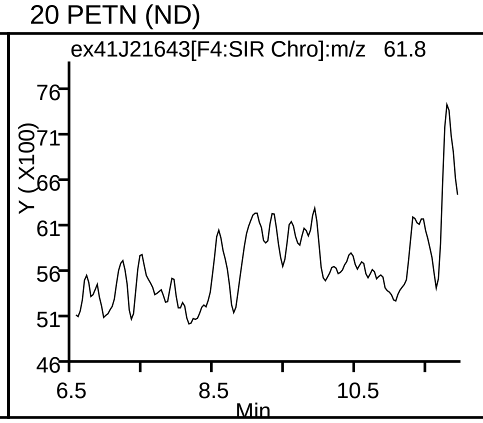
* 18 2,4-dinitrotoluene-d3



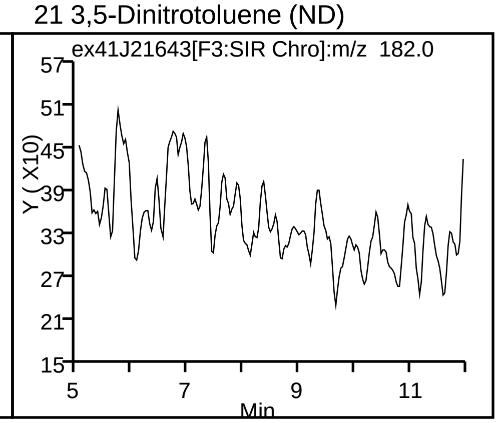
19 2,4-Dinitrotoluene (ND)



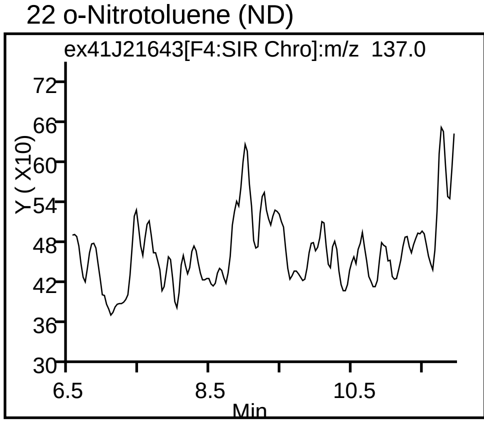
20 PETN (ND)



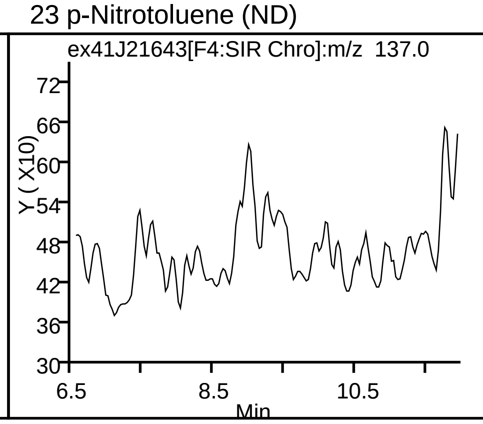
21 3,5-Dinitrotoluene (ND)



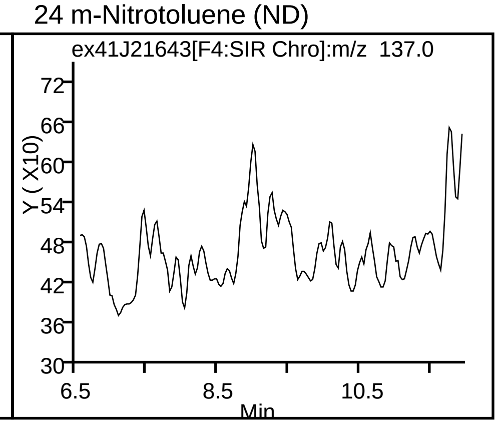
22 o-Nitrotoluene (ND)



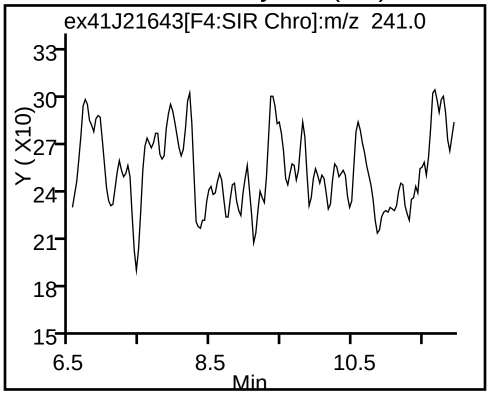
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 280-92354/8

Matrix: Solid Lab File ID: ex41J21010.d

Analysis Method: 8321B Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 10/21/2011 11:04

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92354 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.050	U	10	0.050	1.7
99-65-0	1,3-Dinitrobenzene	0.050	U	10	0.050	1.4
118-96-7	2,4,6-Trinitrotoluene	0.050	U	10	0.050	2.2
121-14-2	2,4-Dinitrotoluene	0.050	U	10	0.050	1.9
606-20-2	2,6-Dinitrotoluene	0.050	U	10	0.050	2.2
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	10	0.050	2.1
88-72-2	2-Nitrotoluene	0.050	U	10	0.050	2.2
99-08-1	3-Nitrotoluene	0.050	U	10	0.050	2.5
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	10	0.050	1.9
99-99-0	4-Nitrotoluene	0.050	U	10	0.050	2.6
2691-41-0	HMX	0.050	U	10	0.050	1.9
98-95-3	Nitrobenzene	0.050	U	10	0.050	3.3
55-63-0	Nitroglycerin	0.050	U	14	0.050	4.5
78-11-5	PETN	0.050	U	10	0.050	1.8
121-82-4	RDX	0.050	U	10	0.050	2.1
479-45-8	Tetryl	0.050	U	10	0.050	2.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	96		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21010.d		
Lims ID:	ICB	Client ID:	
Inject. Date:	21-Oct-2011 11:04:21	Dil. Factor:	1.0000
Sample Type:	ICB		
Sample ID:	10/21/11BLK ICB 280-0002644-008		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	1
Lims Batch ID:	92354	Lims Sample ID:	8
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:46	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 21-Oct-2011 12:19:57

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		590369	250.0			
2 HMX										1
1	355.0		2.062							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2376310	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1449500	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.068							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.540	0.000	1.109	344594	47.9			
12 Nitrobenzene										1
2	123.0		5.674							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15	2,3-Dinitrotoluene									1
3	182.0		6.563							
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.745							
17	2,6-Dinitrotoluene									1
3	182.0		6.897							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.262	7.261	0.001		4206276	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.353							
20	PETN									1
4	61.8		7.828							
21	3,5-Dinitrotoluene									
3	182.0		7.960							
22	o-Nitrotoluene									1
4	137.0		8.345							
23	p-Nitrotoluene									1
4	137.0		8.891							
24	m-Nitrotoluene									
4	137.0		9.559							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.440							

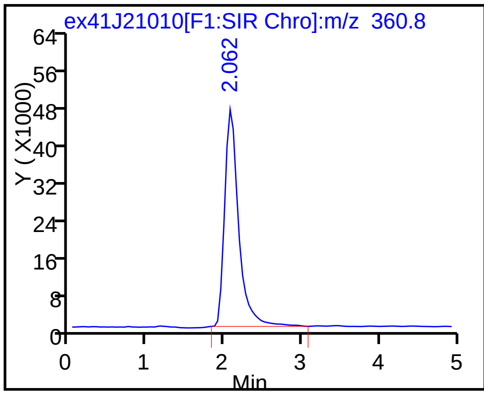
QC Flag Legend

Processing Flags
1 - Missing Peaks

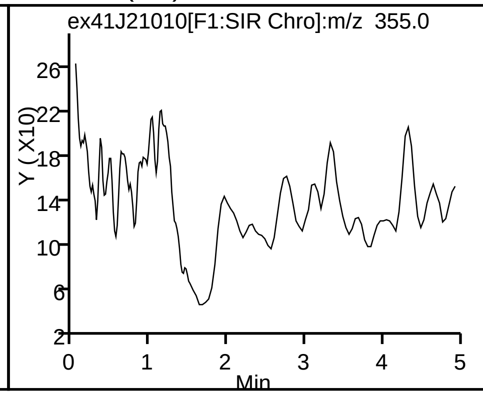
Report Date: 24-Oct-2011 07:32:48 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21010.d

Injection Date:	21-Oct-2011 11:04:21	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	8
Operator ID:		Injection Vol:	40.00 ul

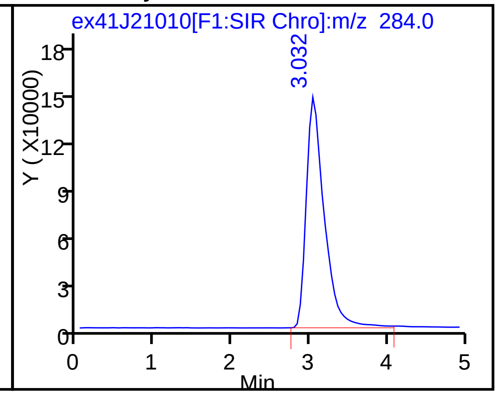
* 1 HMX-13C4



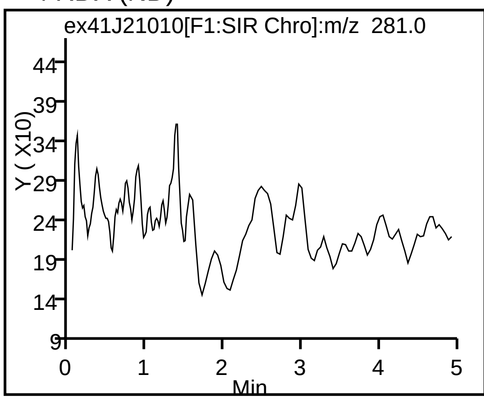
2 HMX (ND)



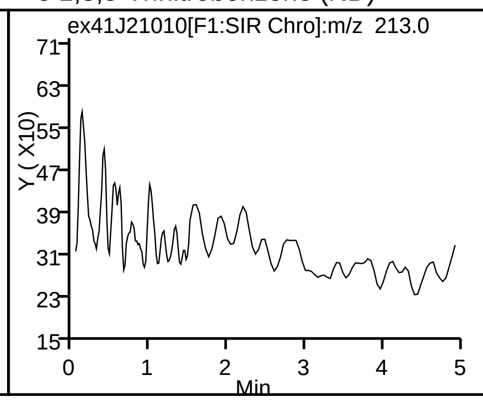
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



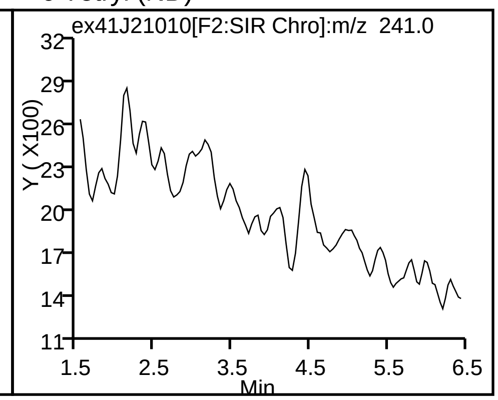
4 RDX (ND)



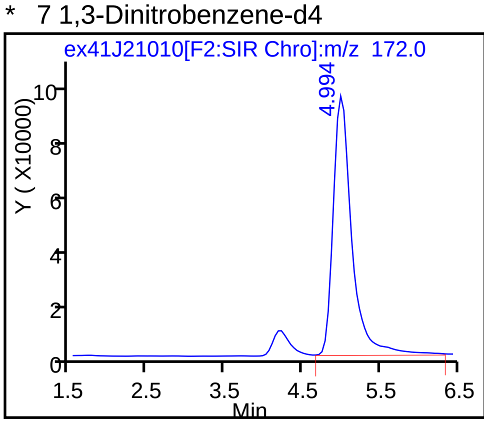
5 1,3,5-Trinitrobenzene (ND)



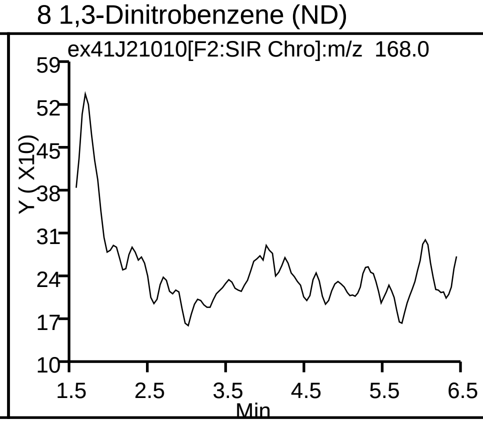
6 Tetryl (ND)



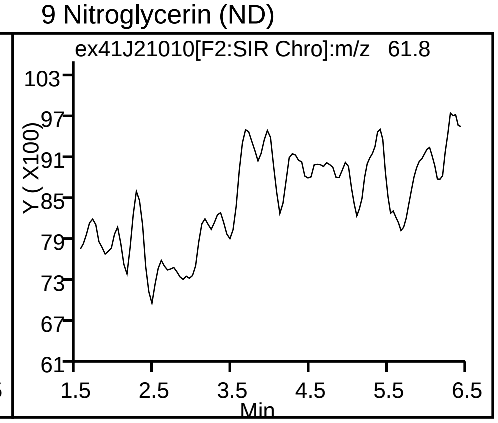
* 7 1,3-Dinitrobenzene-d4



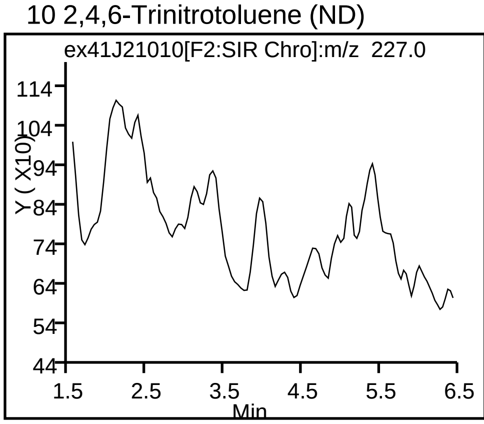
8 1,3-Dinitrobenzene (ND)



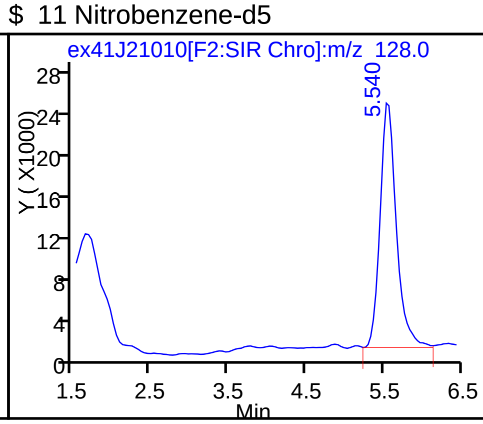
9 Nitroglycerin (ND)



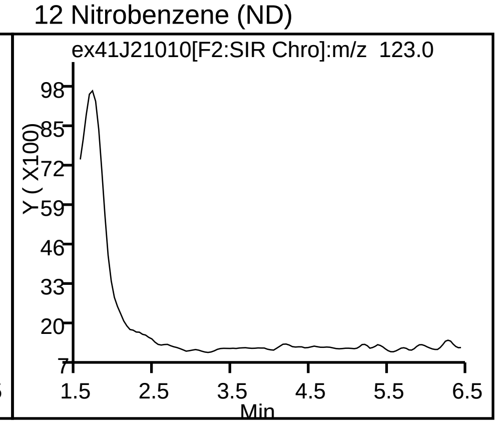
10 2,4,6-Trinitrotoluene (ND)



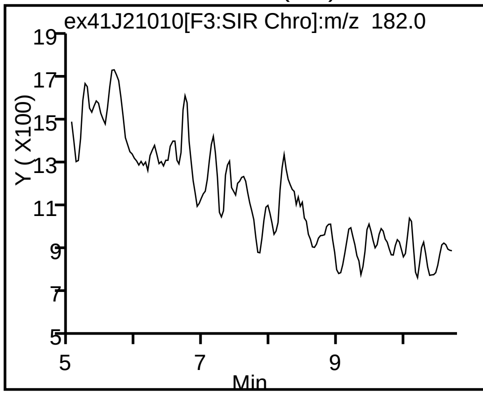
$ 11 Nitrobenzene-d5



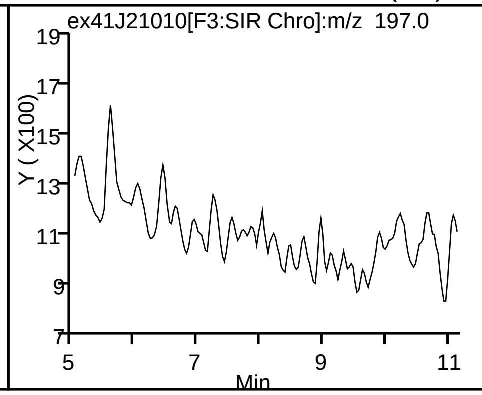
12 Nitrobenzene (ND)



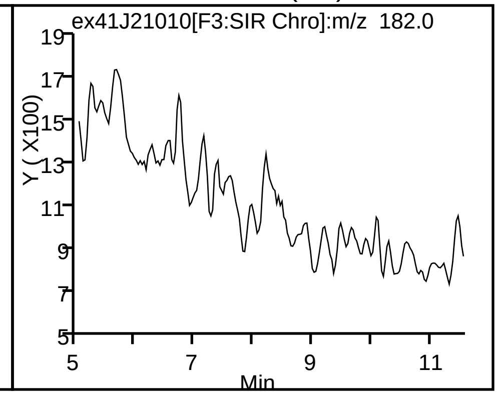
13 3,4-Dinitrotoluene (ND)



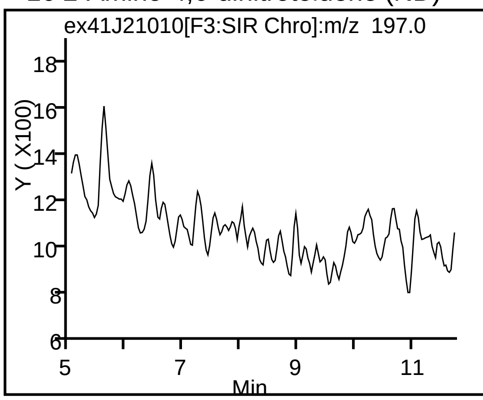
14 4-Amino-2,6-dinitrotoluene (ND)



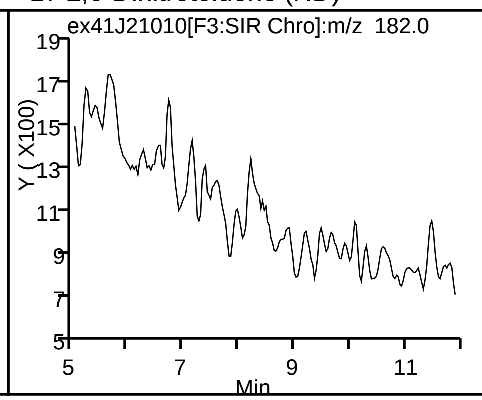
15 2,3-Dinitrotoluene (ND)



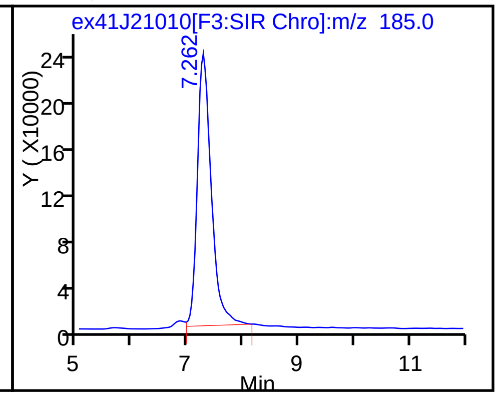
16 2-Amino-4,6-dinitrotoluene (ND)



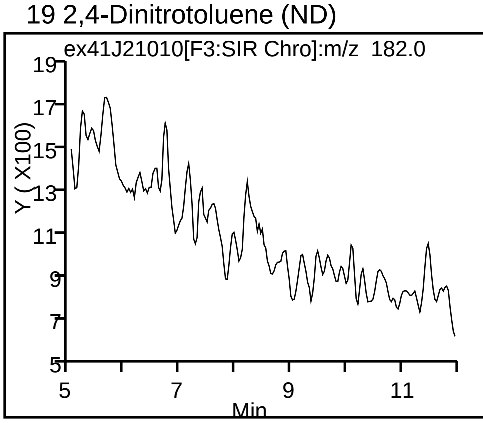
17 2,6-Dinitrotoluene (ND)



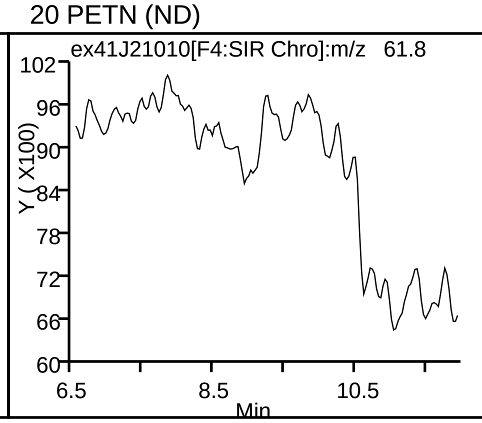
* 18 2,4-dinitrotoluene-d3



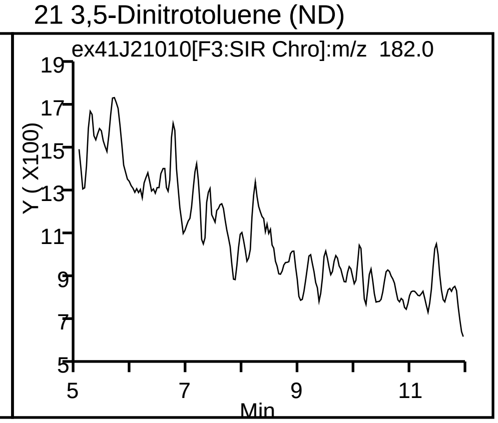
19 2,4-Dinitrotoluene (ND)



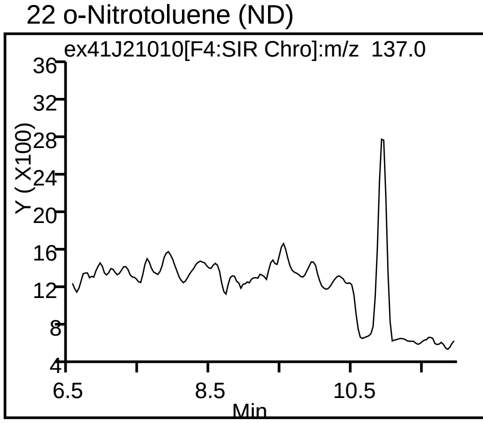
20 PETN (ND)



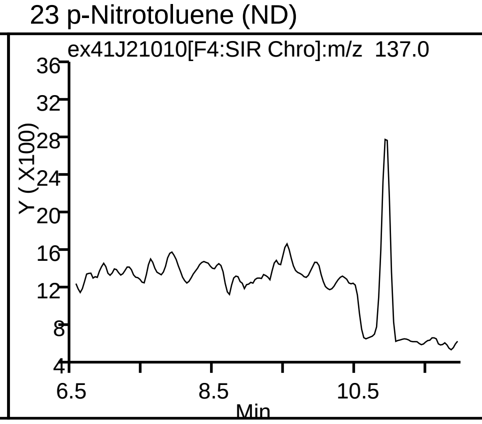
21 3,5-Dinitrotoluene (ND)



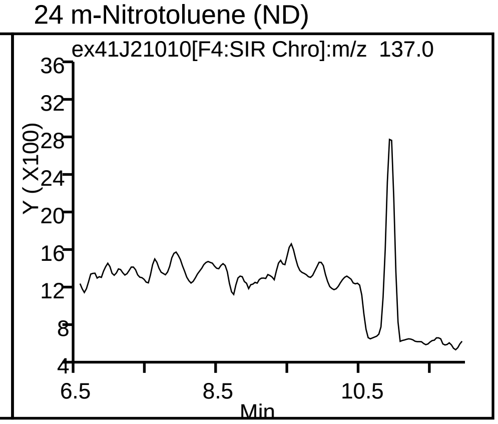
22 o-Nitrotoluene (ND)



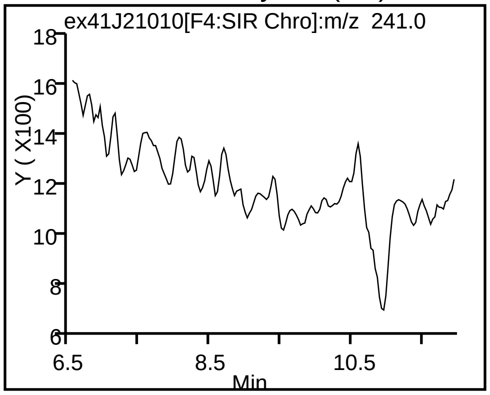
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-92097/2-A

Matrix: Solid | Lab File ID: ex41J21588.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 8330B | Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.35(g) | Date Analyzed: 11/01/2011 17:39

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.313		0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.379		0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.286		0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.362		0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.340		0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.435		0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.353		0.097	0.012	0.0055
99-08-1	3-Nitrotoluene	0.325		0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.388		0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.326		0.097	0.024	0.011
2691-41-0	HMX	0.353		0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.376		0.097	0.012	0.010
55-63-0	Nitroglycerin	0.364		0.097	0.012	0.010
78-11-5	PETN	0.421		0.097	0.012	0.0050
121-82-4	RDX	0.400		0.097	0.012	0.0042
479-45-8	Tetryl	0.307		0.097	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	96		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21588.d
Lims ID: LCS 280-92097/2-A Client ID:
Inject. Date: 01-Nov-2011 17:39:27 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: LCS 280-92097/2-A 280-0002689-112
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 52
Lims Batch ID: 94193 Lims Sample ID: 112
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m
Last Update: 02-Nov-2011 06:47:47 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	371954	91.4			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		453927	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1760626	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	695039	103.6			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	446541	81.1			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.910	508969	79.4			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1204843	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	513543	98.1			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	2947327	94.3			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.439	-0.001	1.098	1706993	74.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	562534	94.6			
12 Nitrobenzene										
2	123.0	5.641	5.641	0.000	1.139	460051	97.2			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.122	-0.034	0.842	1886735	100.5			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.685	0.030	0.929	2604713	112.5			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.950	3694355	88.0			

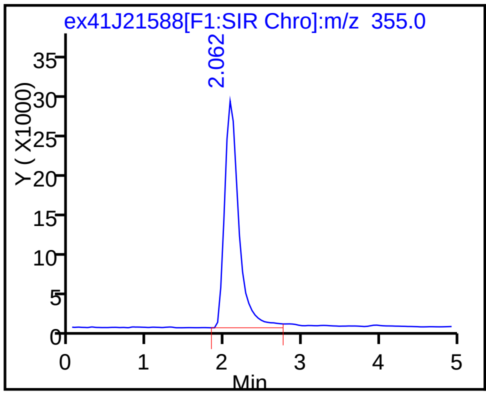
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3944882	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.322	7.262	0.060	1.013	1886448	93.7			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3369531	109.0			
22 o-Nitrotoluene										
4	137.0	8.284	8.254	0.030	1.000	767156	91.4			
23 p-Nitrotoluene										
4	137.0	8.831	8.830	0.001	1.000	630760	84.4			
24 m-Nitrotoluene										
4	137.0	9.468	9.499	-0.031	1.000	388225	84.0			

Report Date: 02-Nov-2011 06:47:49 Chrom Revision: 1.2 13-Jul-2011 10:43:06

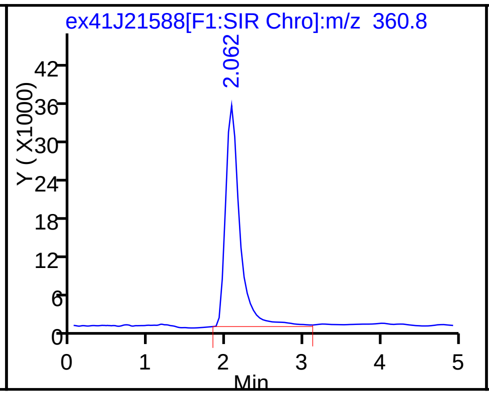
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21588.d

Injection Date:	01-Nov-2011 17:39:27	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	112
Operator ID:		Injection Vol:	40.00 ul

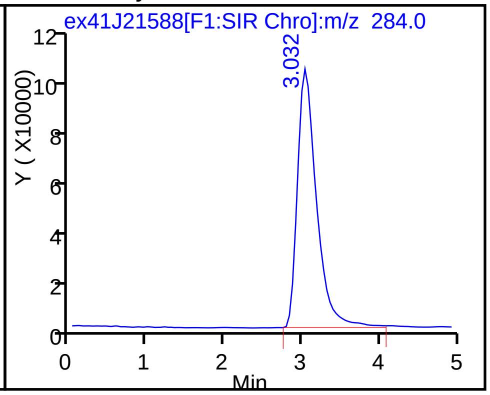
2 HMX



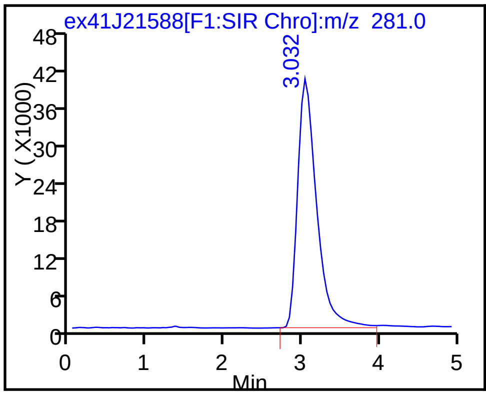
* 1 HMX-13C4



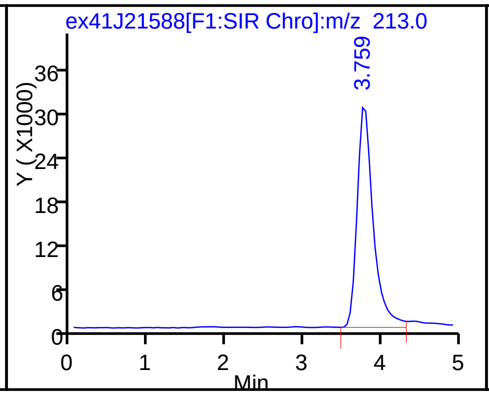
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



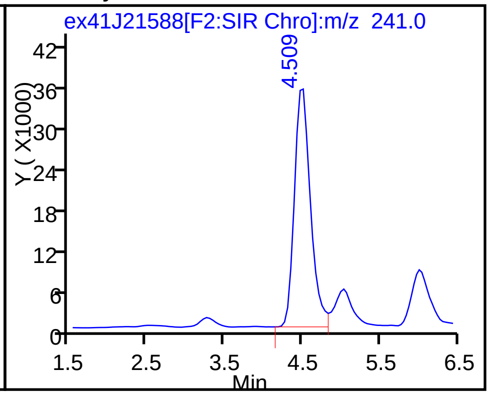
4 RDX



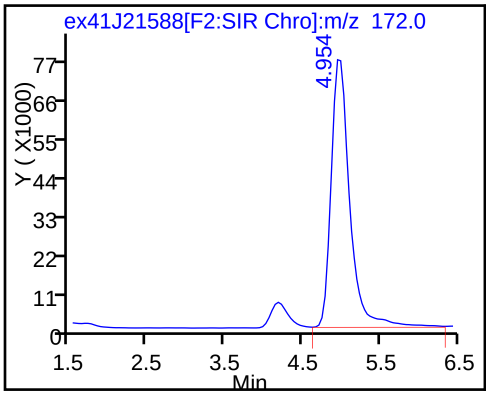
5 1,3,5-Trinitrobenzene



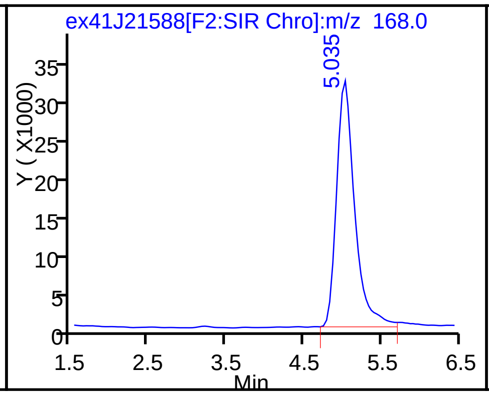
6 Tetryl



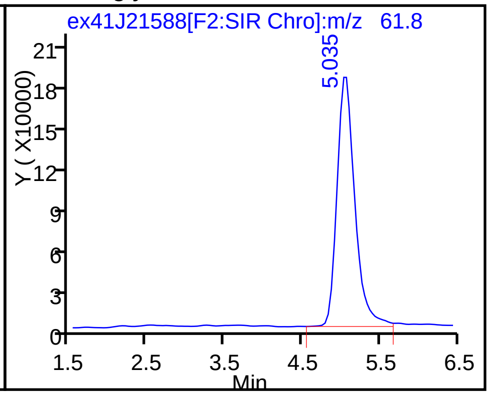
* 7 1,3-Dinitrobenzene-d4



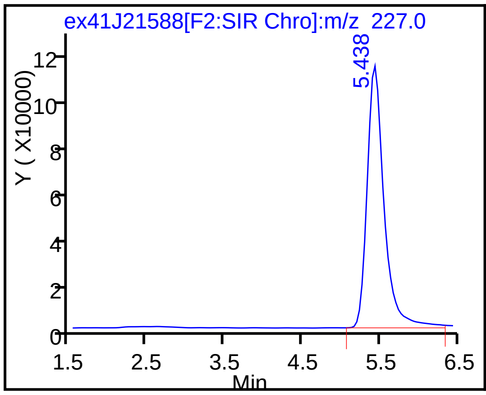
8 1,3-Dinitrobenzene



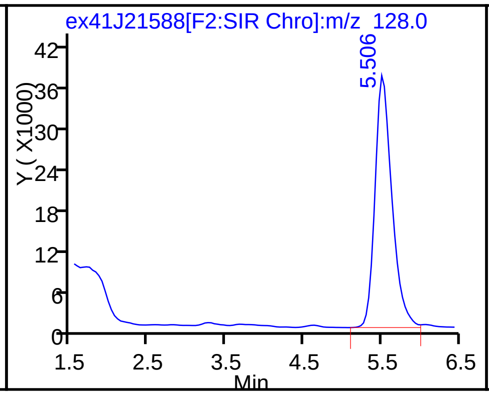
9 Nitroglycerin



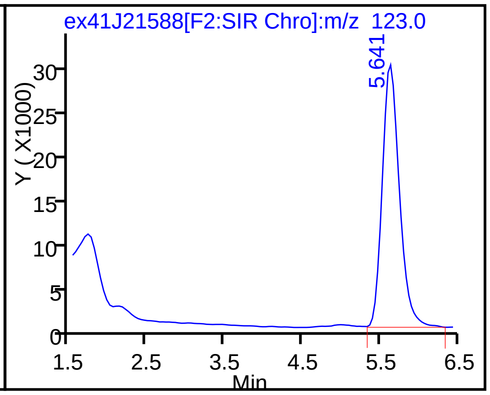
10 2,4,6-Trinitrotoluene



$ 11 Nitrobenzene-d5

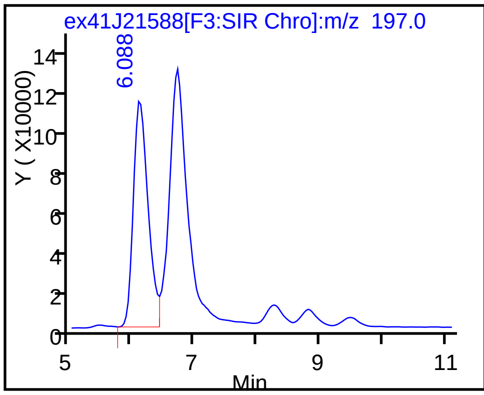


12 Nitrobenzene

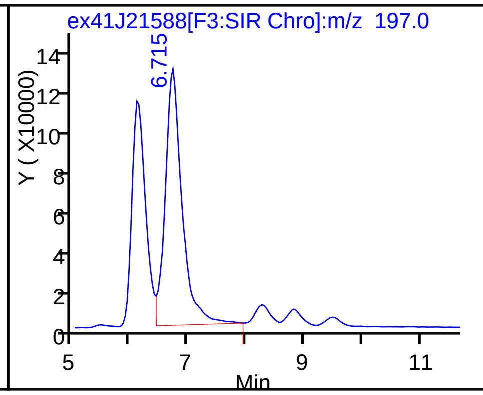


Report Date: 02-Nov-2011 06:47:49 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21588.d

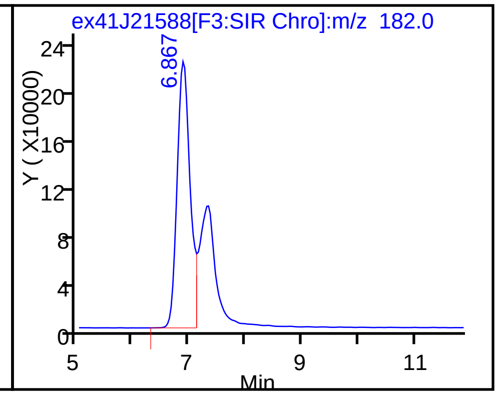
14 4-Amino-2,6-dinitrotoluene



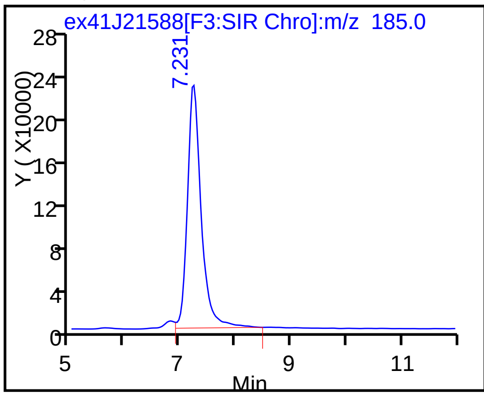
16 2-Amino-4,6-dinitrotoluene



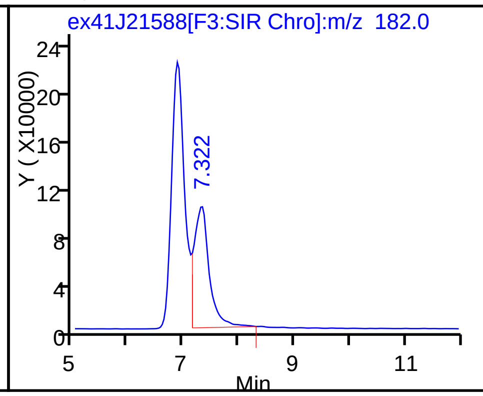
17 2,6-Dinitrotoluene



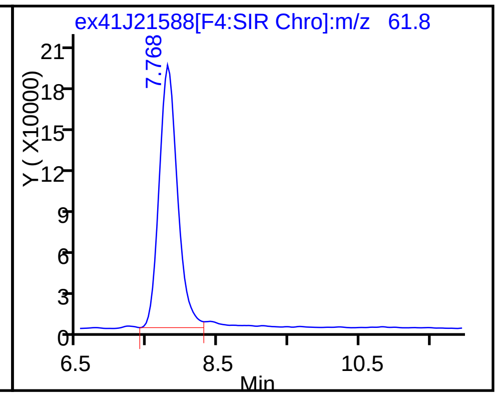
* 18 2,4-dinitrotoluene-d3



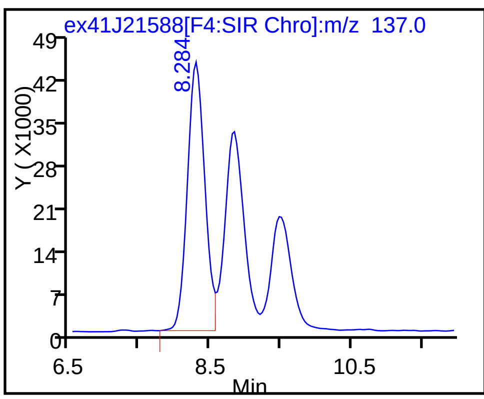
19 2,4-Dinitrotoluene



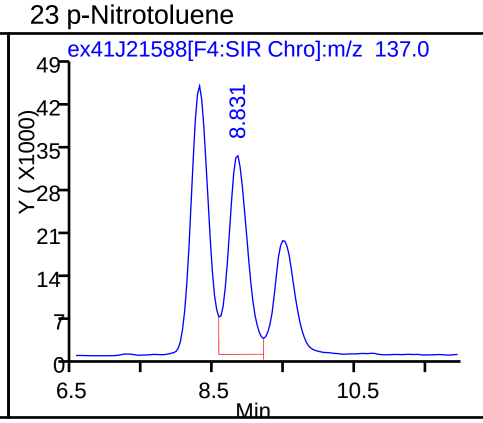
20 PETN



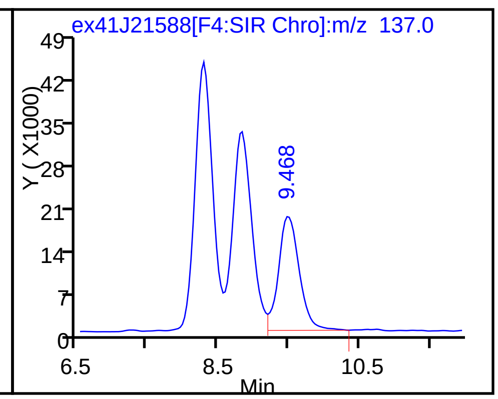
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-92102/2-A

Matrix: Solid   Lab File ID: ex41J21615.d

Analysis Method: 8321B   Date Collected:

Extraction Method: 8330B   Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.14(g)   Date Analyzed: 11/01/2011 23:47

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.313		0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.370		0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.289		0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.364		0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.358		0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.452		0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.375		0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.368		0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.376		0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.360		0.099	0.025	0.011
2691-41-0	HMX	0.330		0.099	0.012	0.0057
98-95-3	Nitrobenzene	0.353		0.099	0.012	0.011
55-63-0	Nitroglycerin	0.339		0.099	0.012	0.010
78-11-5	PETN	0.426		0.099	0.012	0.0051
121-82-4	RDX	0.363		0.099	0.012	0.0043
479-45-8	Tetryl	0.327		0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	86		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21615.d		
Lims ID:	LCS 280-92102/2-A	Client ID:	
Inject. Date:	01-Nov-2011 23:47:40	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS 280-92102/2-A 280-0002689-139		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	76
Lims Batch ID:	94194	Lims Sample ID:	139
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:18	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

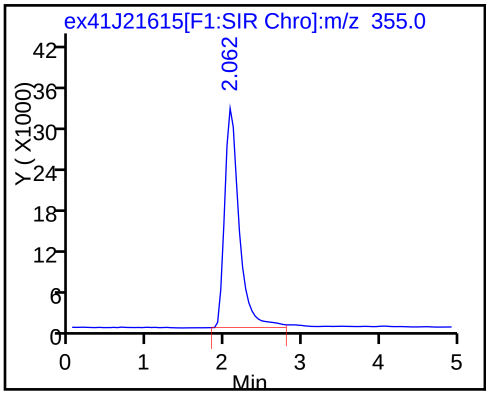
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	424047	83.6			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		566505	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2159346	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	756697	91.9			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.799	-0.040	1.000	484531	79.3			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.910	589675	82.8			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1337469	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.035	-0.001	1.016	545195	93.8			
9 Nitroglycerin										
2	61.8	5.034	5.068	-0.034	1.016	2979574	86.0			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.439	-0.001	1.098	1873618	73.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.540	-0.001	1.118	561289	85.0			
12 Nitrobenzene										
2	123.0	5.640	5.641	-0.001	1.139	470086	89.5			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1826641	95.4			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.929	2703880	114.5			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.837	0.060	0.954	3882414	90.7			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4024420	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	1894794	92.3			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3407545	108.0			
22 o-Nitrotoluene										
4	137.0	8.284	8.284	0.000	1.000	813530	95.0			
23 p-Nitrotoluene										
4	137.0	8.830	8.830	0.000	1.000	696241	91.2			
24 m-Nitrotoluene										
4	137.0	9.499	9.499	0.000	1.000	439348	93.2			

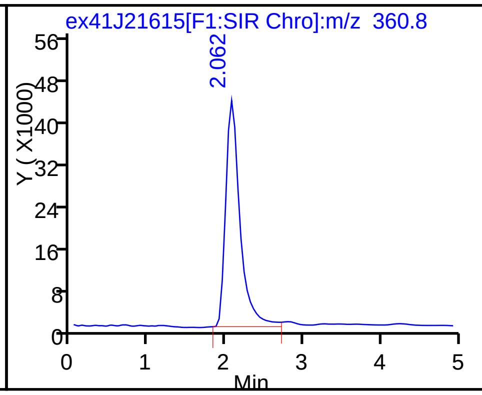
Report Date: 02-Nov-2011 06:54:20 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21615.d

Injection Date:	01-Nov-2011 23:47:40	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	139
Operator ID:		Injection Vol:	40.00 ul

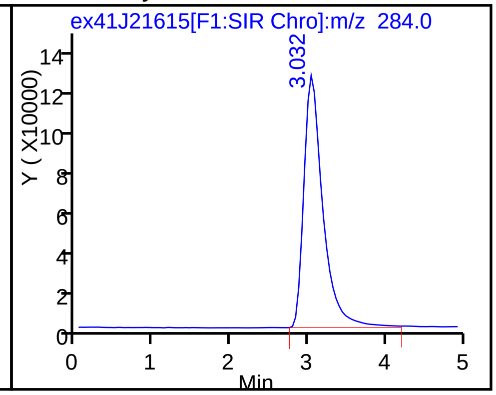
2 HMX



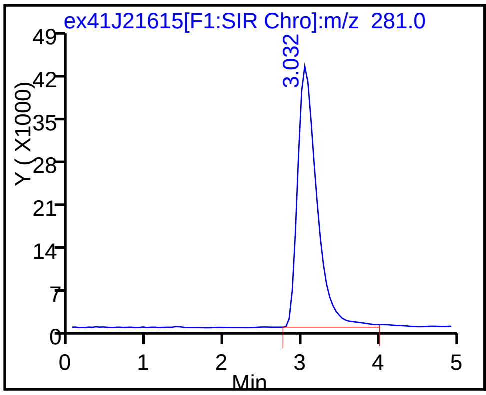
* 1 HMX-13C4



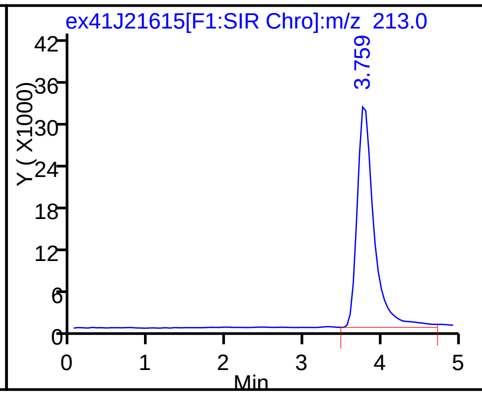
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



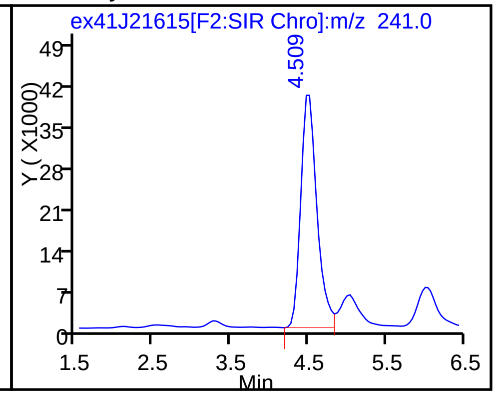
4 RDX



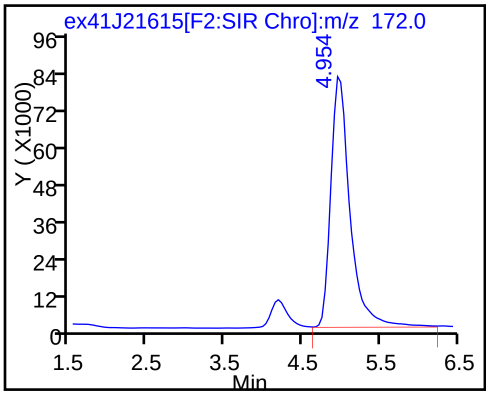
5 1,3,5-Trinitrobenzene



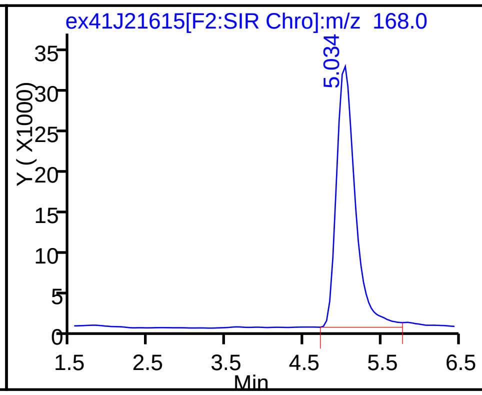
6 Tetryl



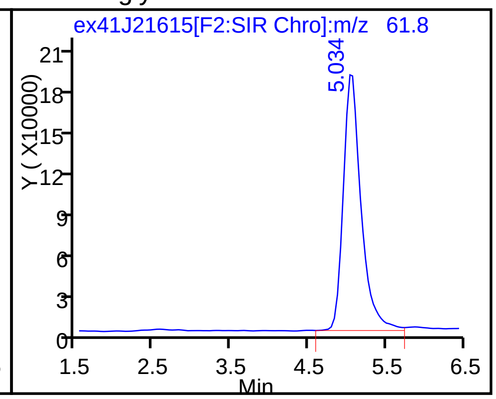
* 7 1,3-Dinitrobenzene-d4



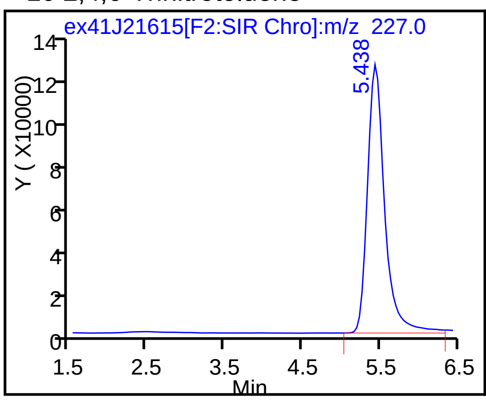
8 1,3-Dinitrobenzene



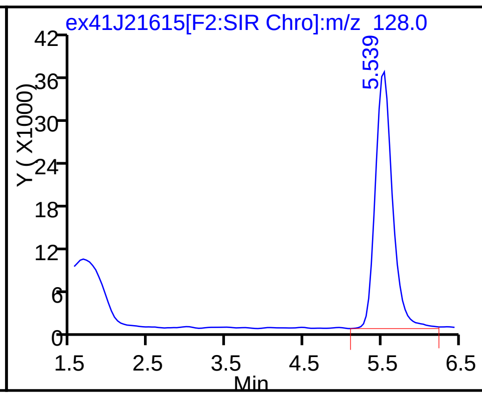
9 Nitroglycerin



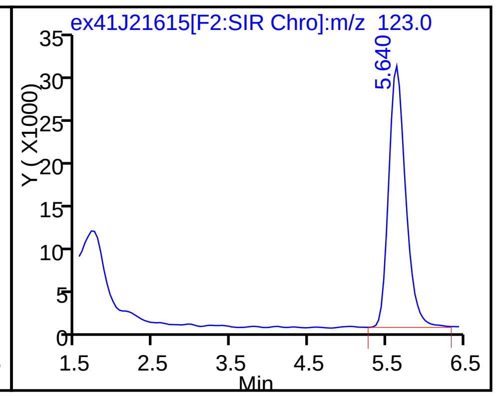
10 2,4,6-Trinitrotoluene



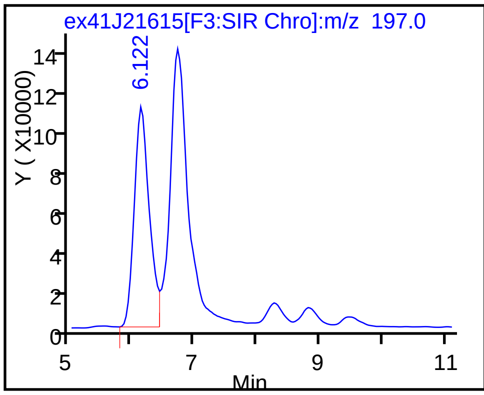
$ 11 Nitrobenzene-d5



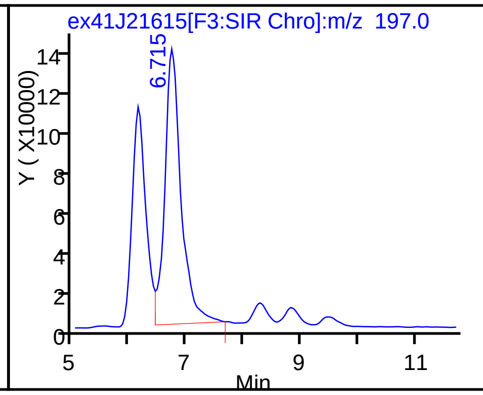
12 Nitrobenzene



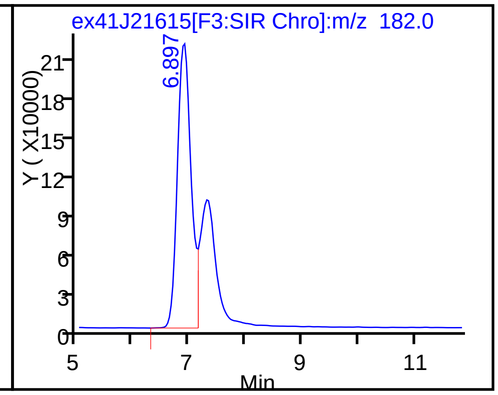
14 4-Amino-2,6-dinitrotoluene



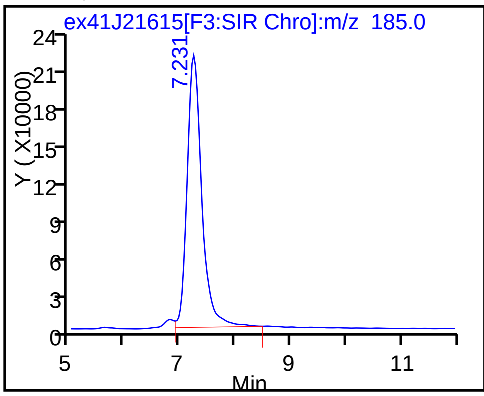
16 2-Amino-4,6-dinitrotoluene



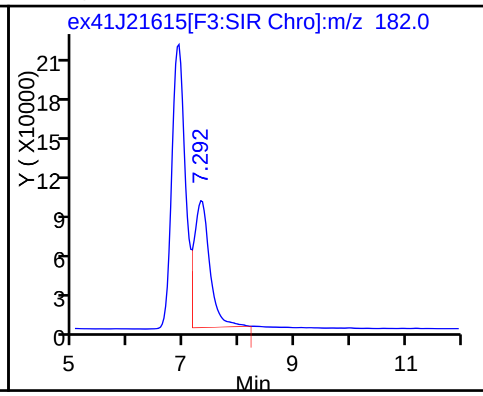
17 2,6-Dinitrotoluene



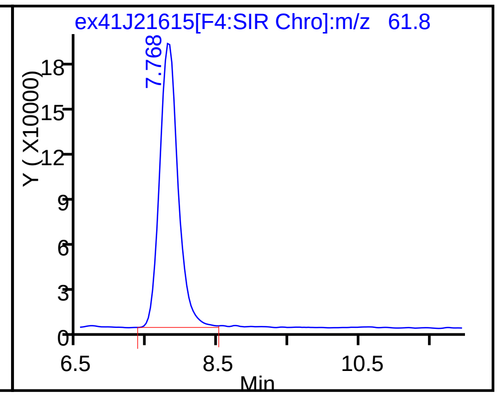
* 18 2,4-dinitrotoluene-d3



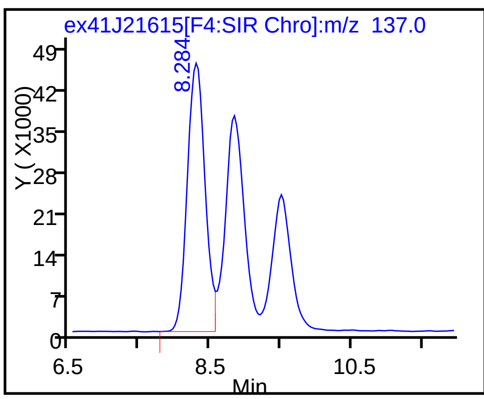
19 2,4-Dinitrotoluene



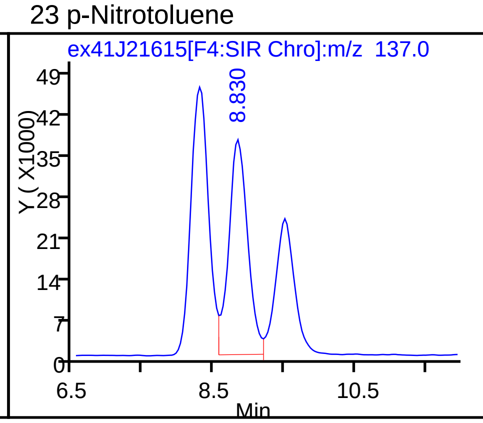
20 PETN



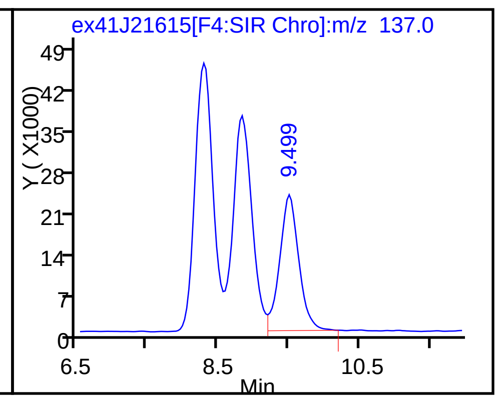
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-92311/2-A

Matrix: Solid   Lab File ID: ex41J21561.d

Analysis Method: 8321B   Date Collected:

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.10(g)   Date Analyzed: 11/01/2011 11:28

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.305		0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.377		0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.288		0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.377		0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.338		0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.411		0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.400		0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.368		0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.411		0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.383		0.099	0.025	0.011
2691-41-0	HMX	0.335		0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.379		0.099	0.012	0.011
55-63-0	Nitroglycerin	0.361		0.099	0.012	0.010
78-11-5	PETN	0.473		0.099	0.012	0.0051
121-82-4	RDX	0.381		0.099	0.012	0.0043
479-45-8	Tetryl	0.320		0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21561.d		
Lims ID:	LCS 280-92311/2-A	Client ID:	
Inject. Date:	01-Nov-2011 11:28:35	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS 280-92311/2-A 280-0002689-085		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	28
Lims Batch ID:	94192	Lims Sample ID:	85
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:15	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

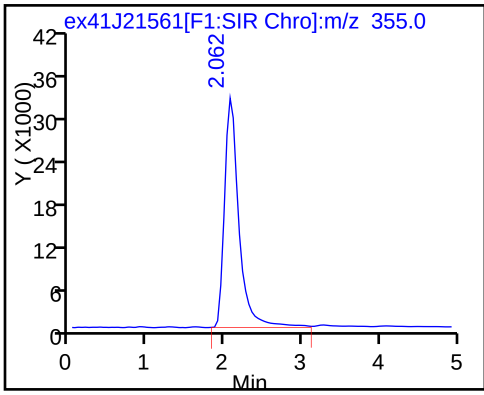
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	424284	84.5			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		560511	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1975824	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	725436	96.3			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.759	0.040	1.000	479800	76.9			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.903	586995	80.7			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1367068	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.034	0.001	1.008	565192	95.1			
9 Nitroglycerin										
2	61.8	5.068	5.034	0.034	1.015	3230232	91.1			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.438	0.001	1.089	1899729	72.7			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	542352	80.3			
12 Nitrobenzene										
2	123.0	5.641	5.607	0.034	1.129	514499	95.8			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1872715	103.8			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.685	0.030	0.929	2311824	103.9			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.837	0.030	0.950	3442211	85.3			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3792102	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.261	0.031	1.008	1843404	95.2			
20 PETN										
4	61.8	7.768	7.737	0.031	1.000	3547126	119.5			
22 o-Nitrotoluene										
4	137.0	8.284	8.254	0.030	1.000	815464	101.1			
23 p-Nitrotoluene										
4	137.0	8.831	8.800	0.031	1.000	694689	96.6			
24 m-Nitrotoluene										
4	137.0	9.499	9.468	0.031	1.000	412525	92.8			

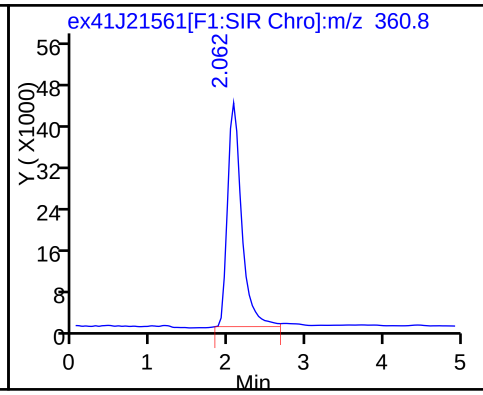
Report Date: 02-Nov-2011 06:41:17 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21561.d

Injection Date:	01-Nov-2011 11:28:35	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	85
Operator ID:		Injection Vol:	40.00 ul

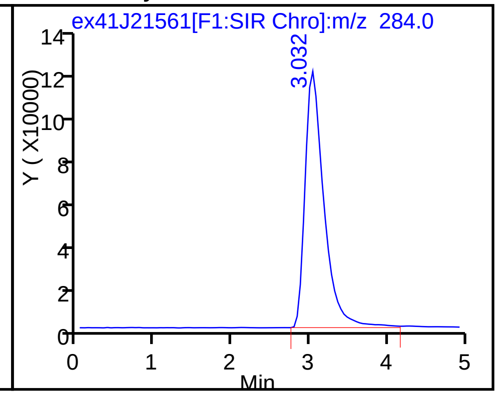
2 HMX



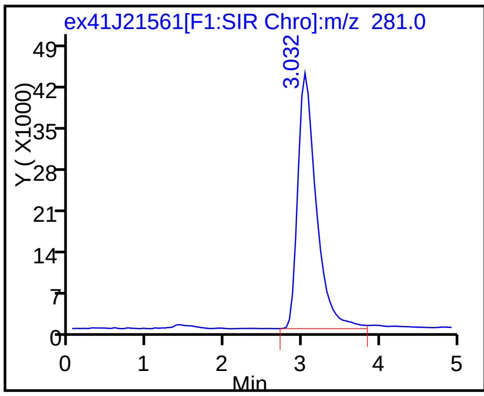
* 1 HMX-13C4



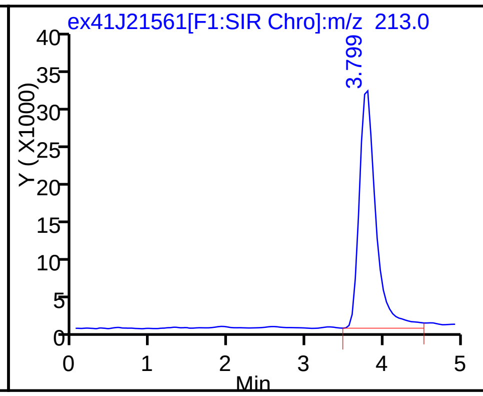
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



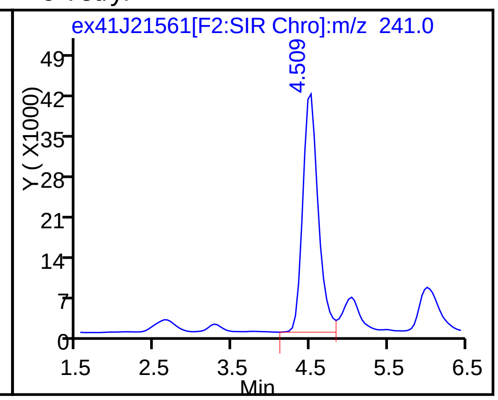
4 RDX



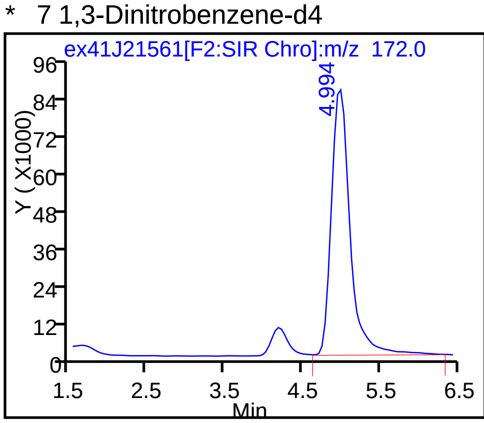
5 1,3,5-Trinitrobenzene



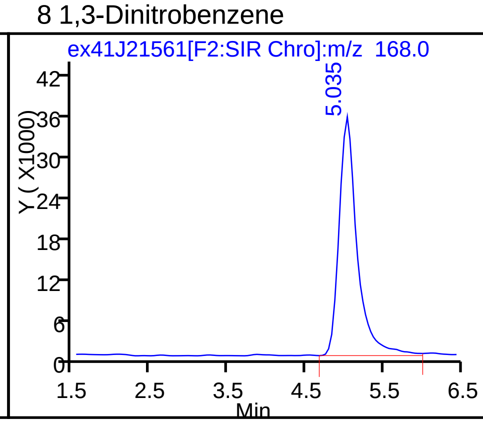
6 Tetryl



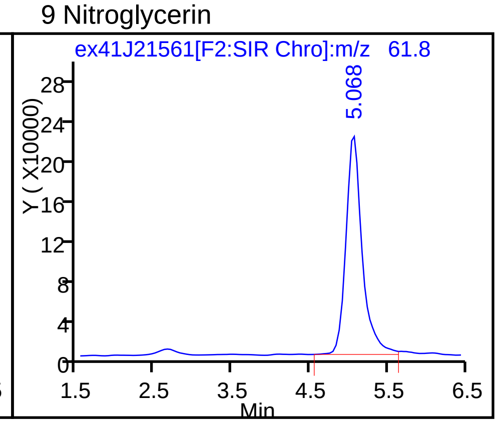
* 7 1,3-Dinitrobenzene-d4



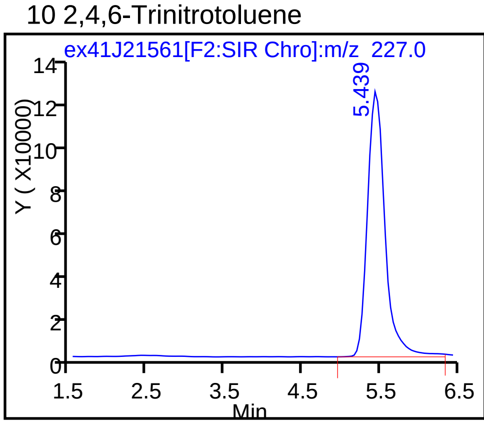
8 1,3-Dinitrobenzene



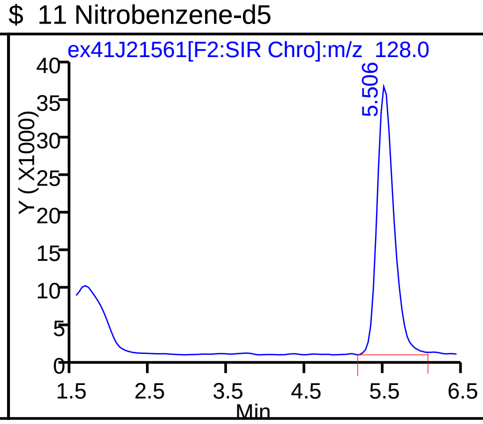
9 Nitroglycerin



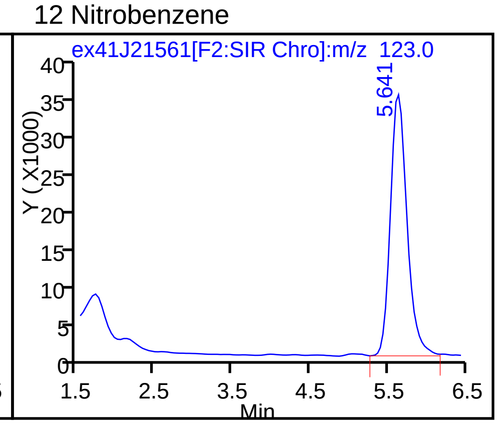
10 2,4,6-Trinitrotoluene



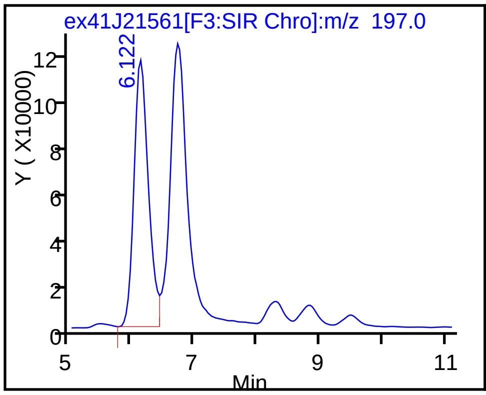
$ 11 Nitrobenzene-d5



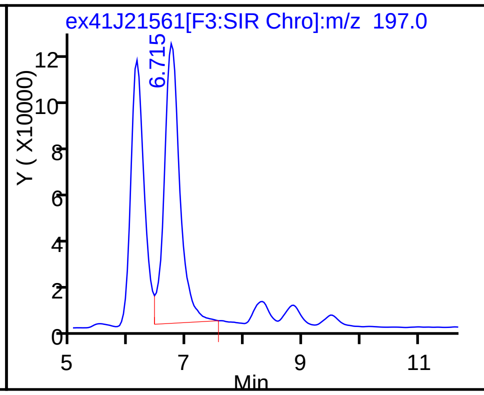
12 Nitrobenzene



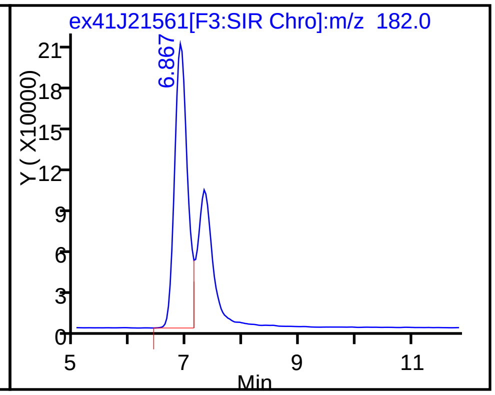
14 4-Amino-2,6-dinitrotoluene



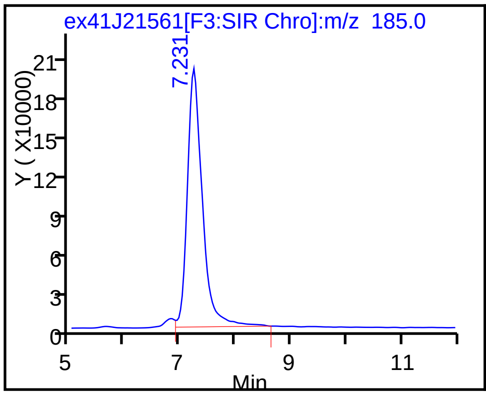
16 2-Amino-4,6-dinitrotoluene



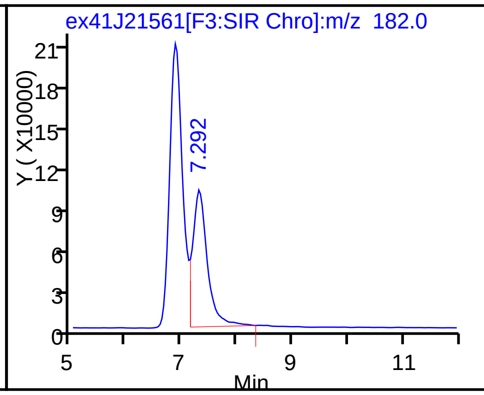
17 2,6-Dinitrotoluene



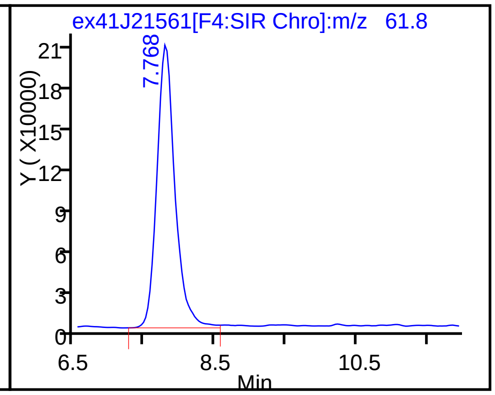
* 18 2,4-dinitrotoluene-d3



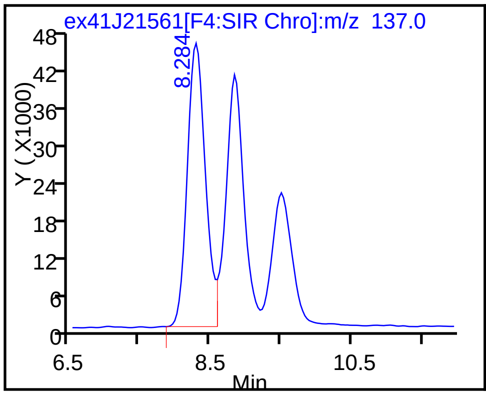
19 2,4-Dinitrotoluene



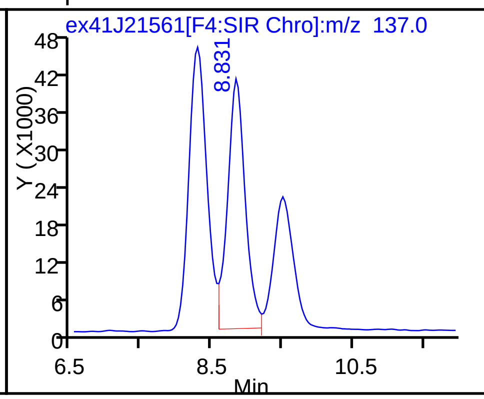
20 PETN



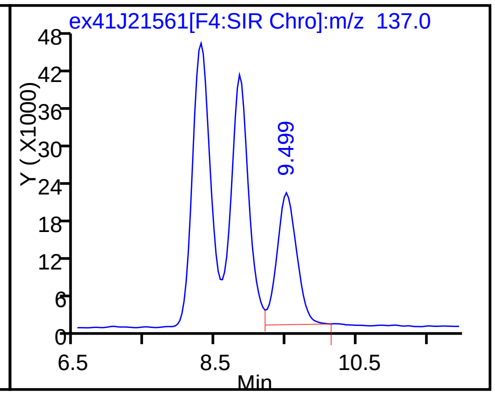
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 280-92314/2-A

Matrix: Solid

Lab File ID: ex41J21155.d

Analysis Method: 8321B

Date Collected:

Extraction Method: 8330B

Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.04(g)

Date Analyzed: 10/25/2011 14:00

Con. Extract Vol.: 40(mL)

Dilution Factor: 1

Injection Volume: 40(uL)

GC Column: IonPac ID: 2(mm)

% Moisture:

GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961

Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.310		0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.371		0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.302		0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.347		0.10	0.012	0.0082
606-20-2	2,6-Dinitrotoluene	0.321		0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.425		0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.336		0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.357		0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.380		0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.340		0.10	0.025	0.011
2691-41-0	HMX	0.312		0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.339		0.10	0.012	0.011
55-63-0	Nitroglycerin	0.345		0.10	0.012	0.010
78-11-5	PETN	0.414		0.10	0.012	0.0051
121-82-4	RDX	0.352		0.10	0.012	0.0043
479-45-8	Tetryl	0.287		0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	72		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21155.d		
Lims ID:	LCS 280-92314/2-A	Client ID:	
Inject. Date:	25-Oct-2011 14:00:41	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS 280-92314/2-A 280-0002644-150		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	22
Lims Batch ID:	92961	Lims Sample ID:	150
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:27:03	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

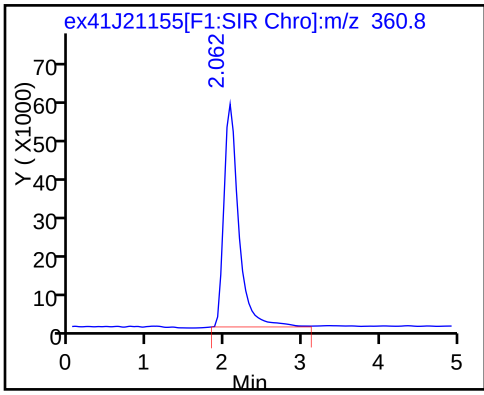
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		781021	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	547959	78.4			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1005323	88.3			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2986920	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	649496	77.9			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	697095	72.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1825252	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	738973	93.2			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	4092109	86.5			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	2645400	75.8			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	645937	71.6			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	609947	85.1			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.122	-0.034	0.845	2495634	95.5			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.715	-0.030	0.928	3437579	106.6			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.867	-0.030	0.949	4708145	80.5			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5495787	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.261	0.001	1.008	2444158	87.2			
20 PETN										
4	61.8	7.707	7.737	-0.030	1.000	4476762	103.8			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	987291	84.4			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	889925	85.4			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	577246	89.6			

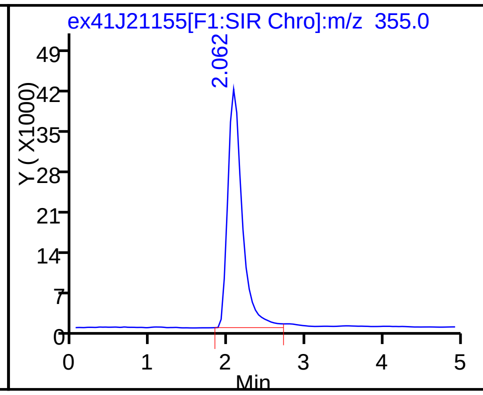
Report Date: 26-Oct-2011 06:24:07 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21155.d		
Injection Date:	25-Oct-2011 14:00:41	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	150
Operator ID:		Injection Vol:	40.00 ul

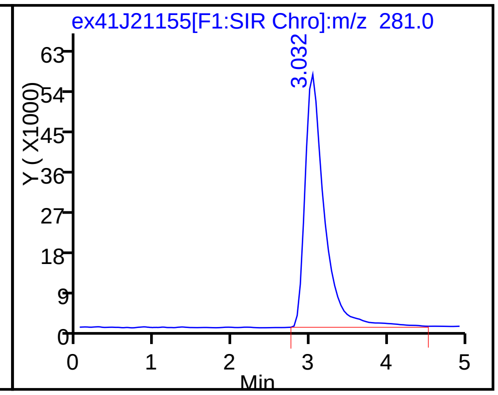
* 1 HMX-13C4



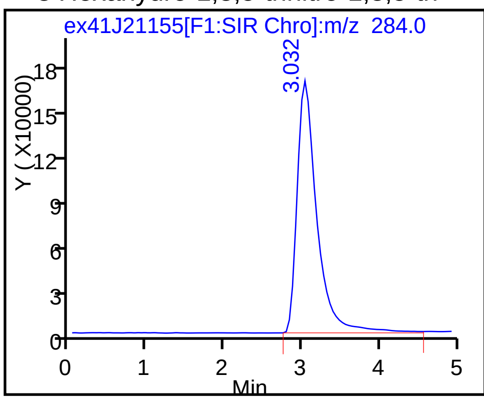
2 HMX



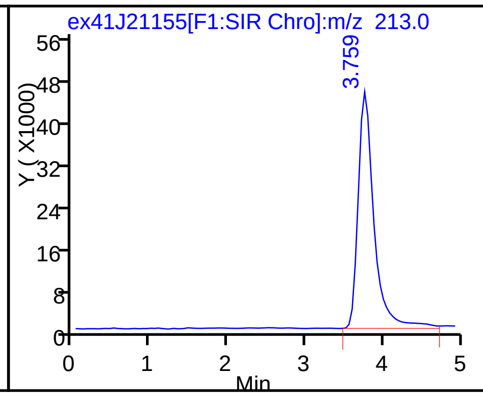
4 RDX



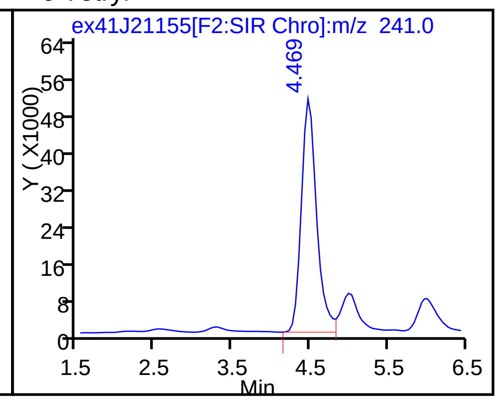
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



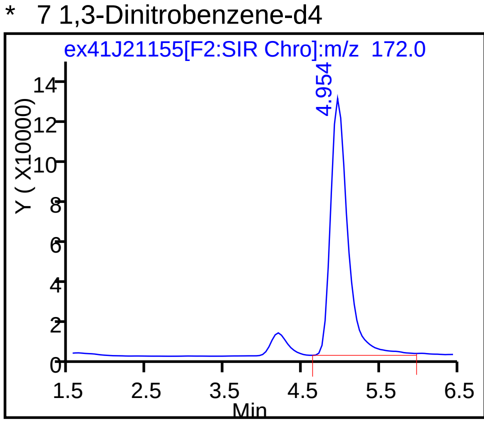
5 1,3,5-Trinitrobenzene



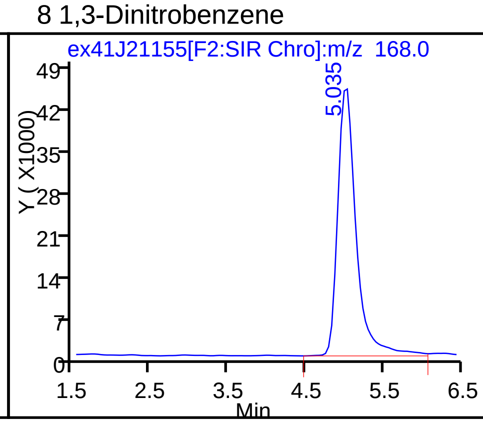
6 Tetryl



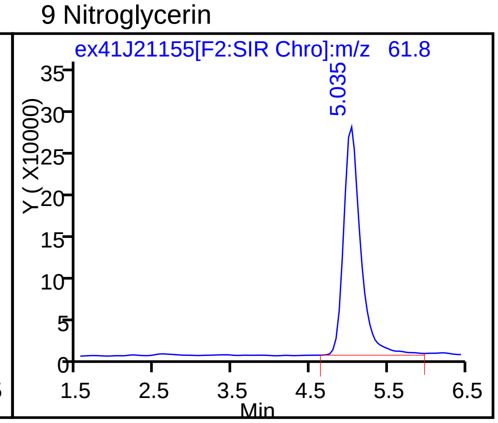
* 7 1,3-Dinitrobenzene-d4



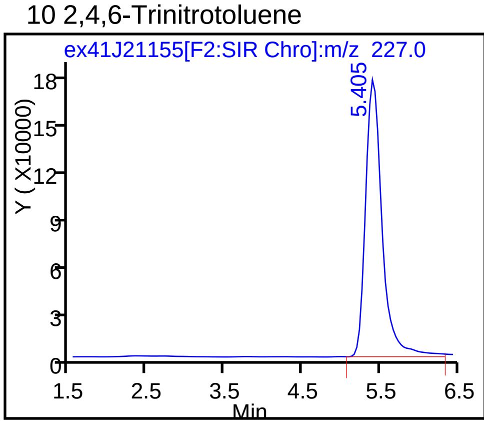
8 1,3-Dinitrobenzene



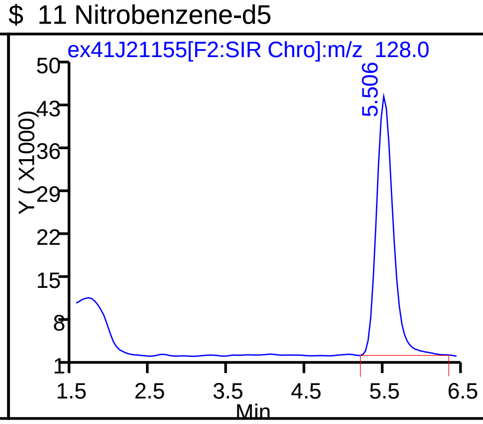
9 Nitroglycerin



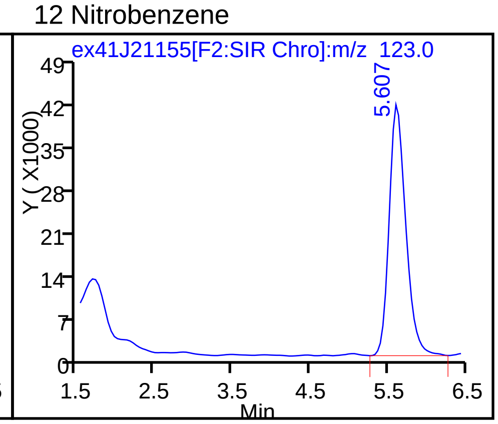
10 2,4,6-Trinitrotoluene



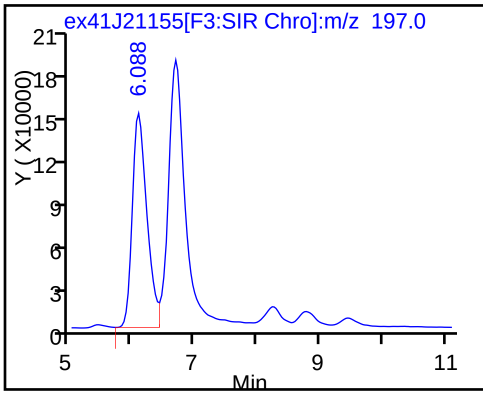
$ 11 Nitrobenzene-d5



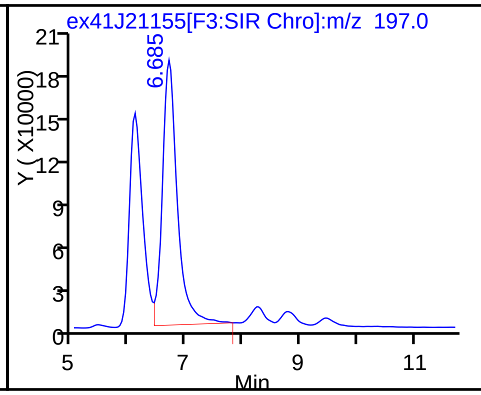
12 Nitrobenzene



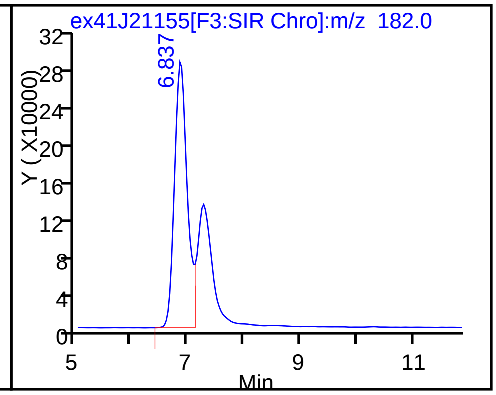
14 4-Amino-2,6-dinitrotoluene



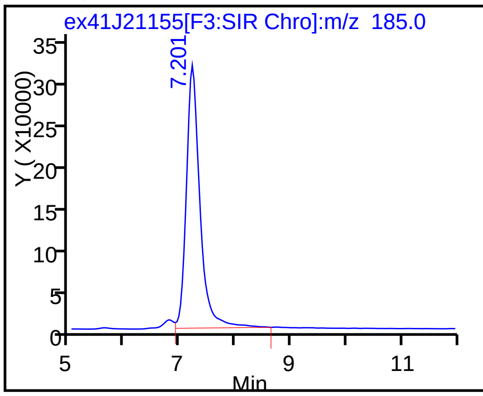
16 2-Amino-4,6-dinitrotoluene



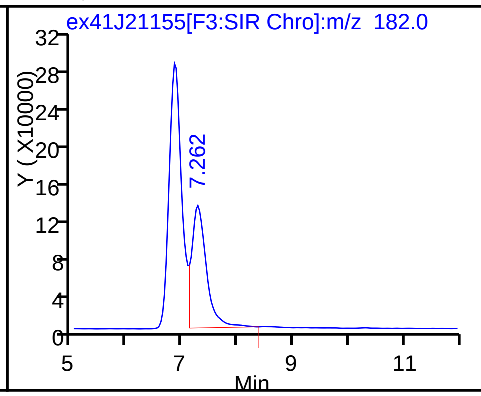
17 2,6-Dinitrotoluene



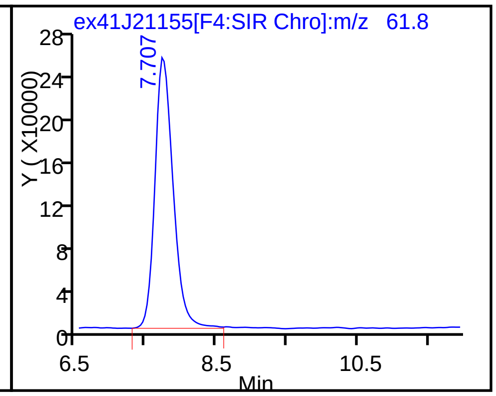
* 18 2,4-dinitrotoluene-d3



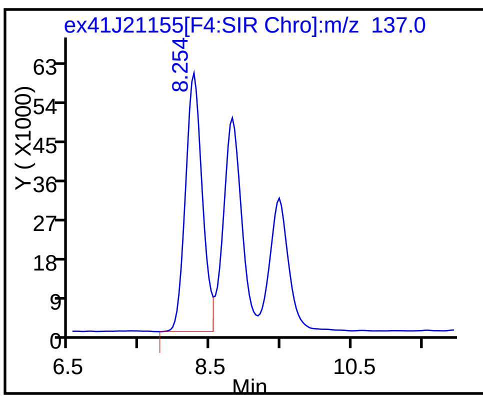
19 2,4-Dinitrotoluene



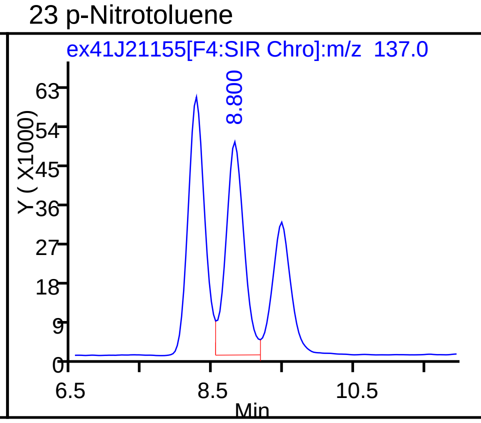
20 PETN



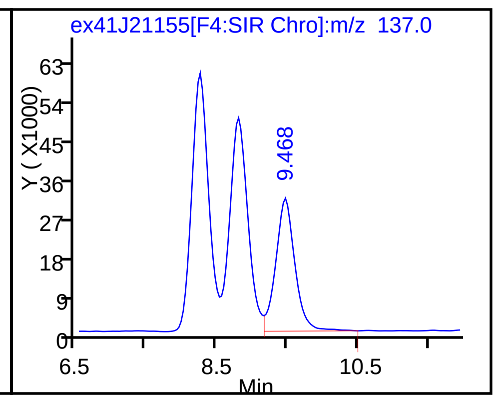
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-92315/2-A

Matrix: Solid   Lab File ID: ex41J21182.d

Analysis Method: 8321B   Date Collected:

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:15

Sample wt/vol: 10.17(g)   Date Analyzed: 10/25/2011 20:09

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92964   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.336		0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.414		0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.383		0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.395		0.098	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.387		0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.507		0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.381		0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.379		0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.434		0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.370		0.098	0.025	0.011
2691-41-0	HMX	0.354		0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.402		0.098	0.012	0.011
55-63-0	Nitroglycerin	0.384		0.098	0.012	0.010
78-11-5	PETN	0.474		0.098	0.012	0.0051
121-82-4	RDX	0.404		0.098	0.012	0.0042
479-45-8	Tetryl	0.374		0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	93		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21182.d		
Lims ID:	LCS 280-92315/2-A	Client ID:	
Inject. Date:	25-Oct-2011 20:09:40	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS 280-92315/2-A 280-0002644-177		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	46
Lims Batch ID:	92964	Lims Sample ID:	177
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:06	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		813114	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	655528	90.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1187771	102.8			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3033846	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.799	-0.040	1.000	634505	85.4			
6 Tetryl										
2	241.0	4.469	4.509	-0.040	0.902	823326	95.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1622080	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.068	-0.033	1.016	741629	105.2			
9 Nitroglycerin										
2	61.8	5.035	5.068	-0.033	1.016	4113845	97.7			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.438	-0.033	1.091	3026338	97.4			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.540	-0.034	1.111	734724	91.8			
12 Nitrobenzene										
2	123.0	5.607	5.674	-0.067	1.132	651550	102.3			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.156	-0.068	0.845	2669148	110.3			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.745	-0.060	0.928	3844607	128.9			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.897	-0.030	0.954	5331491	98.5			

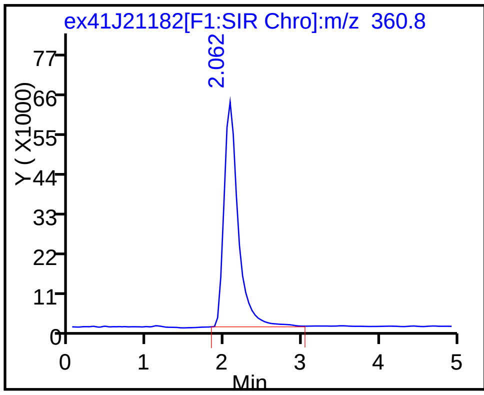
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.262	-0.061		5087380	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.322	-0.060	1.008	2606004	100.4			
20 PETN										
4	61.8	7.737	7.828	-0.091	1.000	4803038	120.6			
22 o-Nitrotoluene										
4	137.0	8.254	8.345	-0.091	1.000	1048209	96.8			
23 p-Nitrotoluene										
4	137.0	8.800	8.891	-0.091	1.000	907776	94.1			
24 m-Nitrotoluene										
4	137.0	9.468	9.559	-0.091	1.000	574582	96.4			

Report Date: 26-Oct-2011 09:44:09 Chrom Revision: 1.2 13-Jul-2011 10:43:06

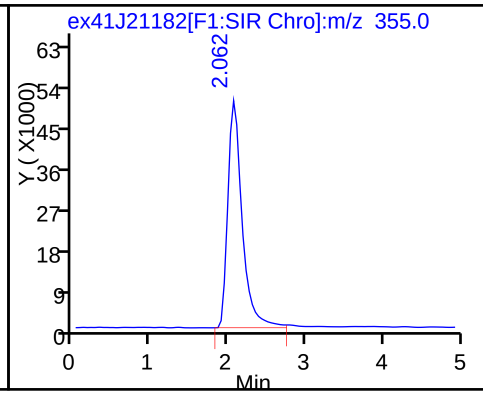
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21182.d

Injection Date:	25-Oct-2011 20:09:40	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	177
Operator ID:		Injection Vol:	40.00 ul

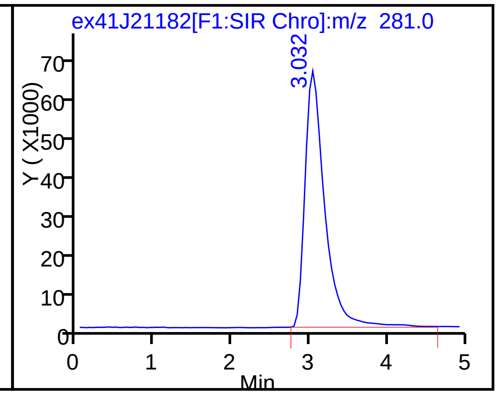
* 1 HMX-13C4



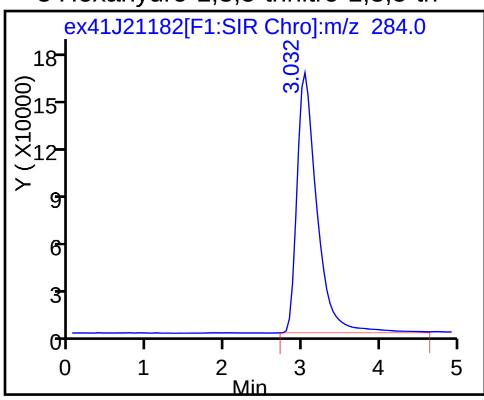
2 HMX



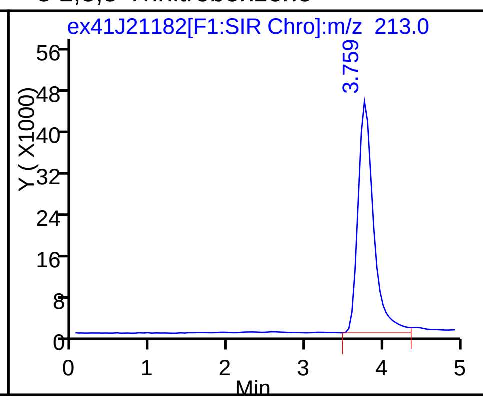
4 RDX



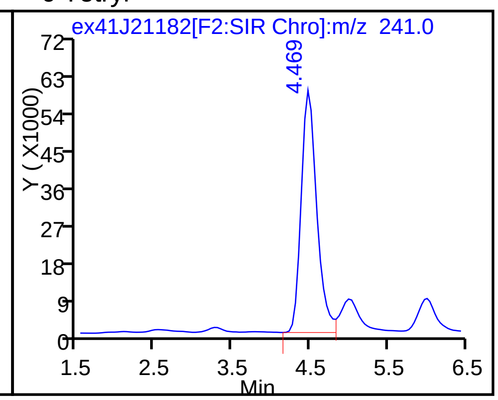
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



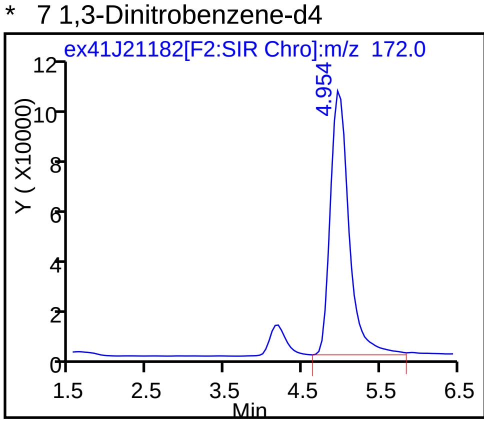
5 1,3,5-Trinitrobenzene



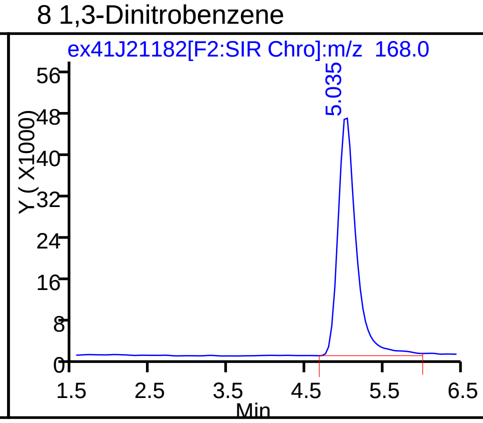
6 Tetryl



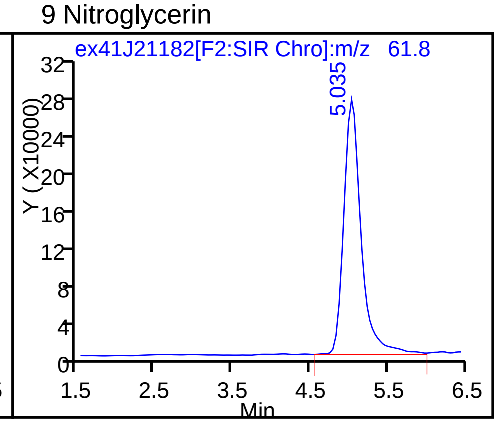
* 7 1,3-Dinitrobenzene-d4



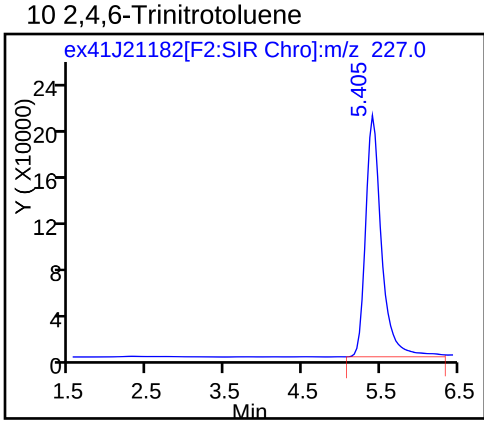
8 1,3-Dinitrobenzene



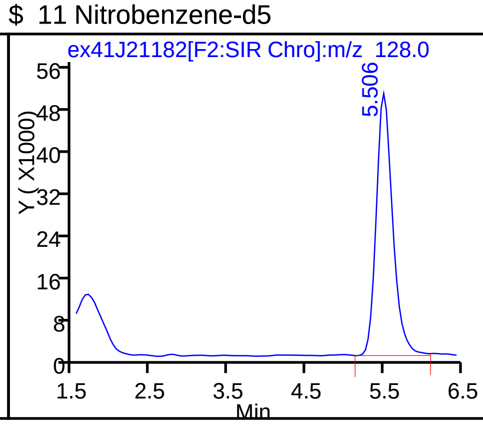
9 Nitroglycerin



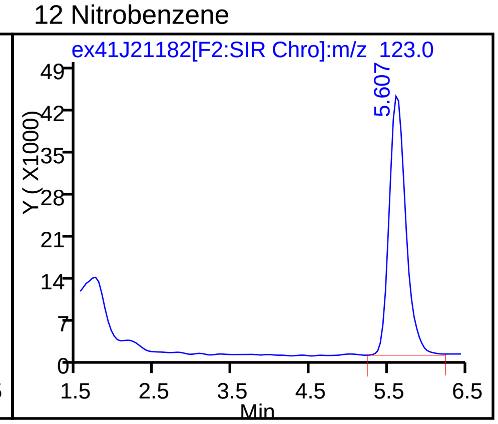
10 2,4,6-Trinitrotoluene



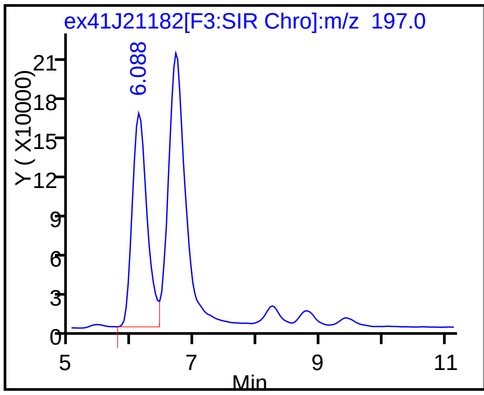
$ 11 Nitrobenzene-d5



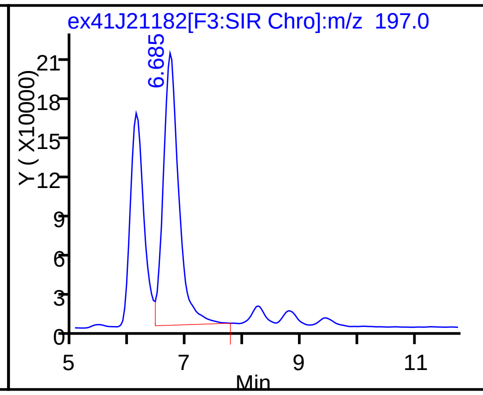
12 Nitrobenzene



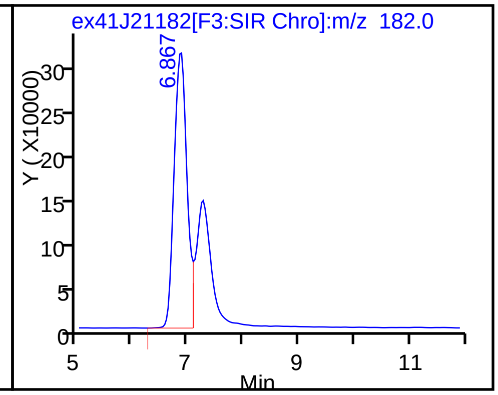
14 4-Amino-2,6-dinitrotoluene



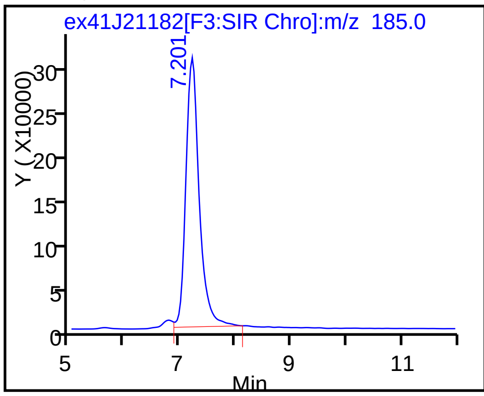
16 2-Amino-4,6-dinitrotoluene



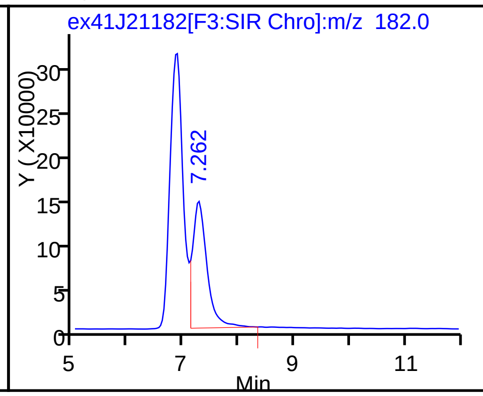
17 2,6-Dinitrotoluene



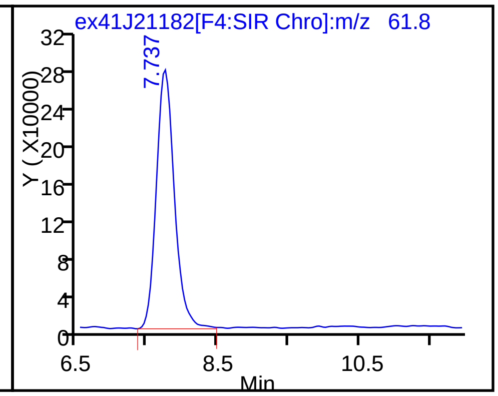
* 18 2,4-dinitrotoluene-d3



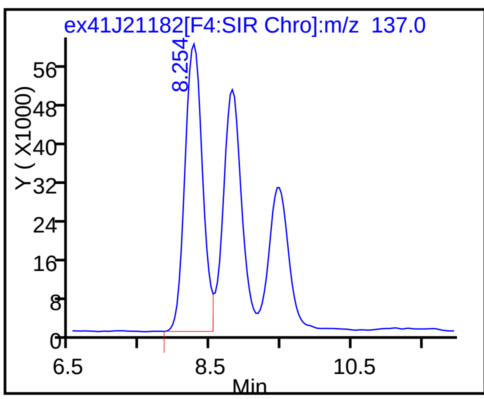
19 2,4-Dinitrotoluene



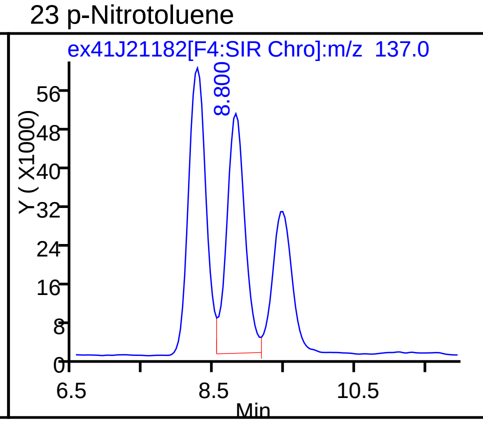
20 PETN



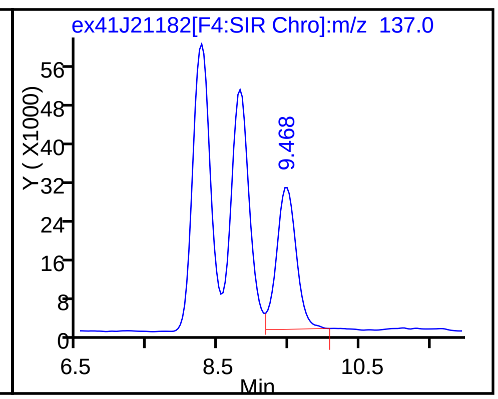
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-93548/2-A

Matrix: Solid | Lab File ID: ex41J21642.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 8330B | Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.07(g) | Date Analyzed: 11/02/2011 05:55

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.305		0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.425		0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.244		0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.416		0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.369		0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.485		0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.396		0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.392		0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.420		0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.385		0.099	0.025	0.011
2691-41-0	HMX	0.369		0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.378		0.099	0.012	0.011
55-63-0	Nitroglycerin	0.413		0.099	0.012	0.010
78-11-5	PETN	0.486		0.099	0.012	0.0051
121-82-4	RDX	0.417		0.099	0.012	0.0043
479-45-8	Tetryl	0.222		0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	90		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21642.d		
Lims ID:	LCS 280-93548/2-A	Client ID:	
Inject. Date:	02-Nov-2011 05:55:53	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS 280-93548/2-A 280-0002689-166		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	100
Lims Batch ID:	94252	Lims Sample ID:	166
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

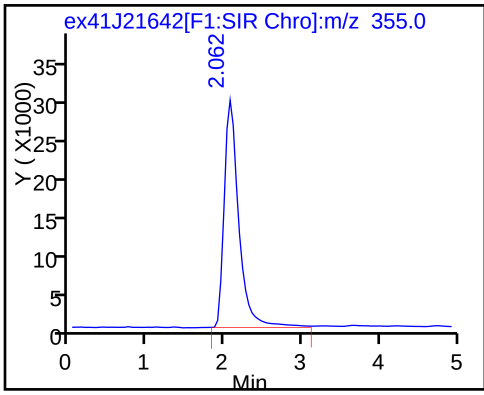
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	393442	92.8			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		472885	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1816603	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	726863	105.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	479609	76.7			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.910	403621	55.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1370999	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	638025	107.0			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	3700153	103.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.439	-0.034	1.091	1606461	61.4			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	605255	89.4			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	511975	95.1			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.122	-0.034	0.845	1886342	105.8			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	2682941	122.0			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.867	-0.030	0.949	3707225	92.9			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		3749162	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.262	-0.001	1.008	2003812	104.7			
20 PETN										
4	61.8	7.737	7.768	-0.031	1.000	3589034	122.3			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	796154	99.8			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	689357	97.0			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	433199	98.6			

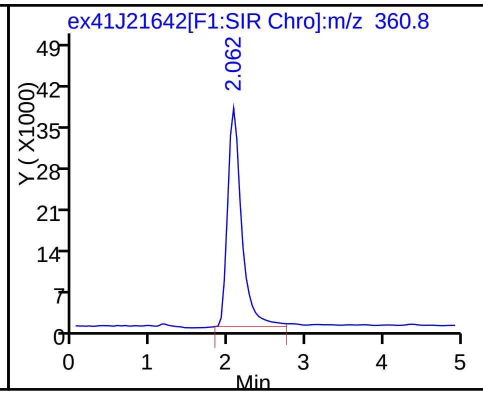
Report Date: 02-Nov-2011 10:22:25 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21642.d

Injection Date:	02-Nov-2011 05:55:53	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	166
Operator ID:		Injection Vol:	40.00 ul

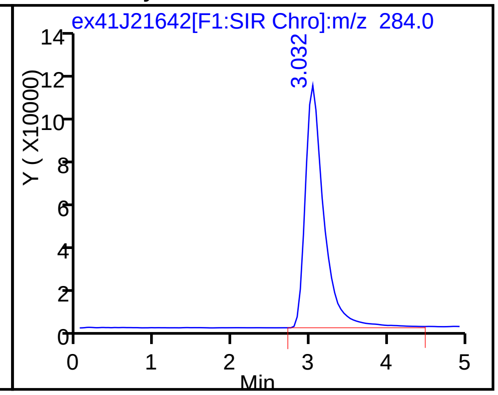
2 HMX



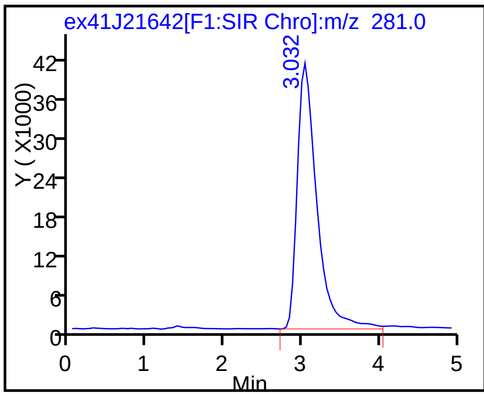
* 1 HMX-13C4



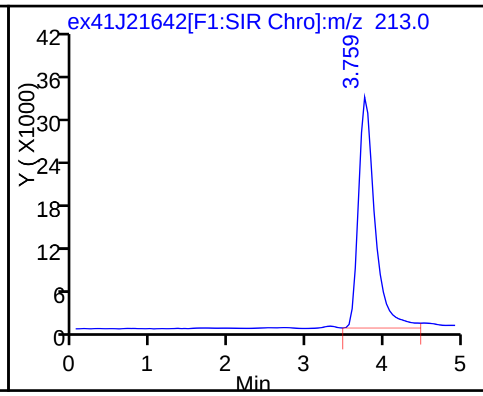
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



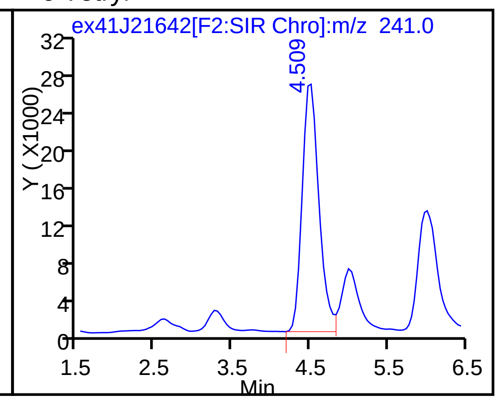
4 RDX



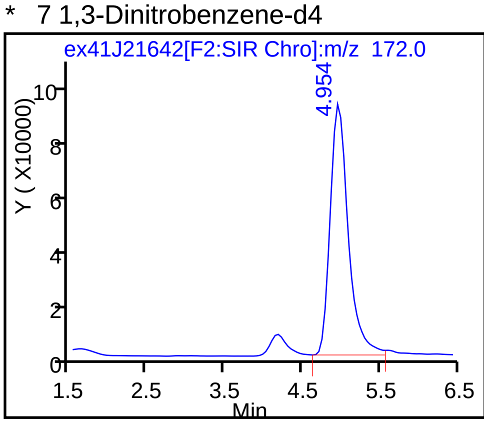
5 1,3,5-Trinitrobenzene



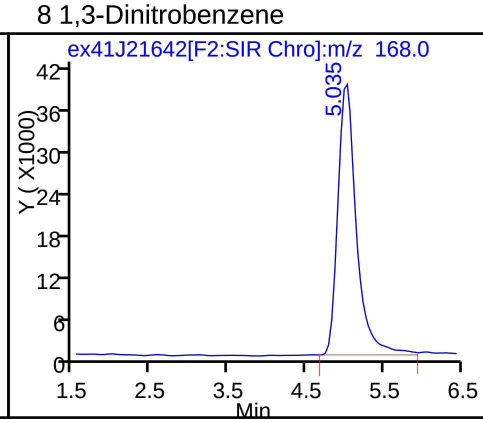
6 Tetryl



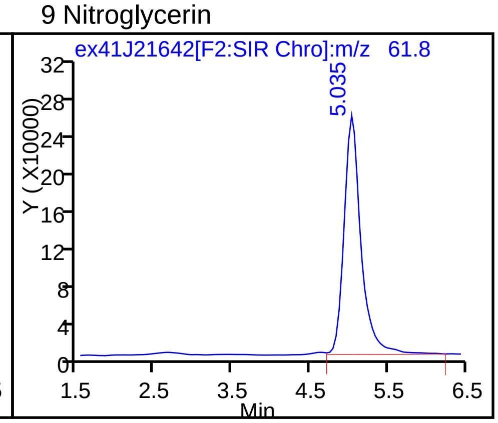
* 7 1,3-Dinitrobenzene-d4



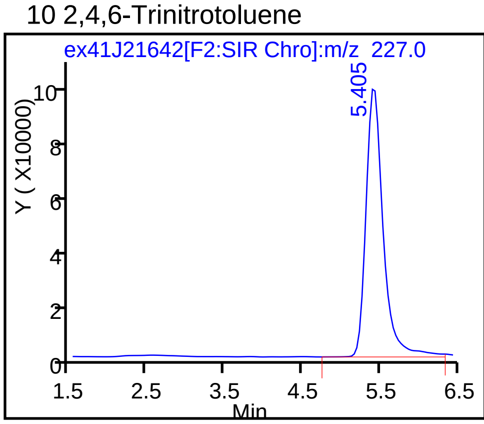
8 1,3-Dinitrobenzene



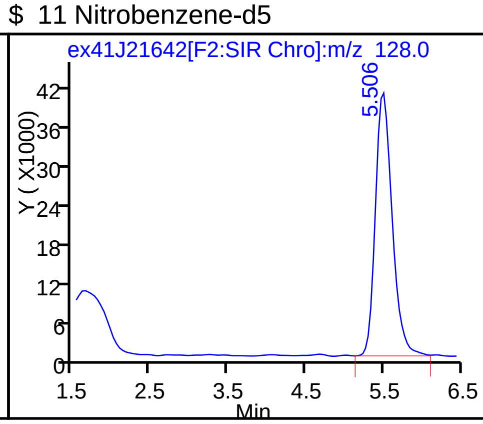
9 Nitroglycerin



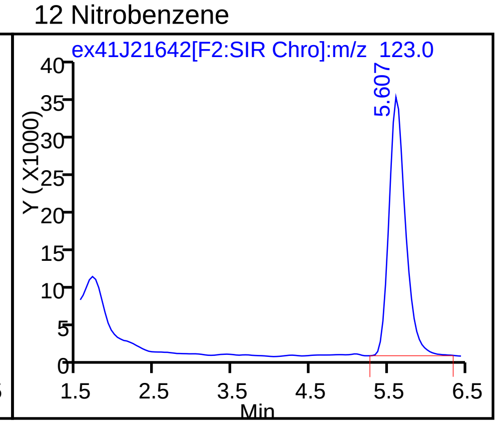
10 2,4,6-Trinitrotoluene



$ 11 Nitrobenzene-d5

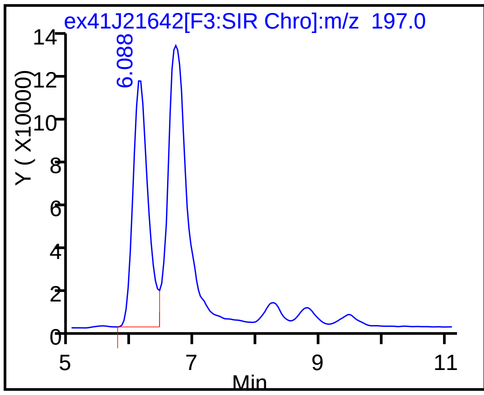


12 Nitrobenzene

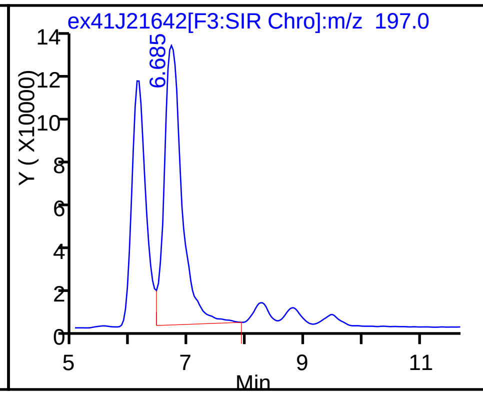


Report Date: 02-Nov-2011 10:22:25 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21642.d

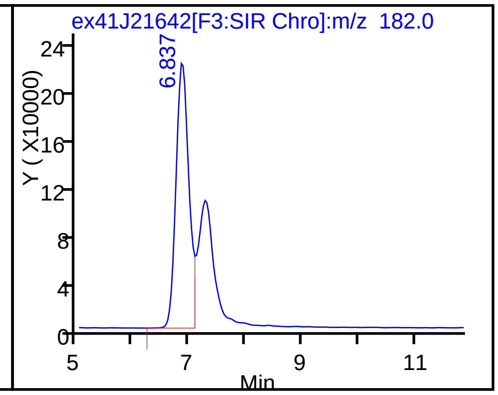
14 4-Amino-2,6-dinitrotoluene



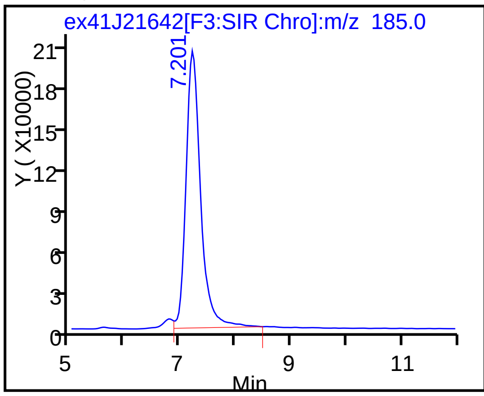
16 2-Amino-4,6-dinitrotoluene



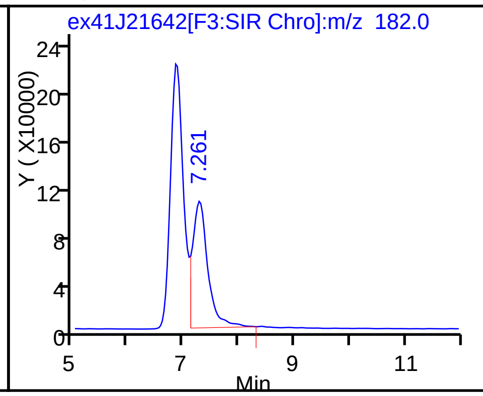
17 2,6-Dinitrotoluene



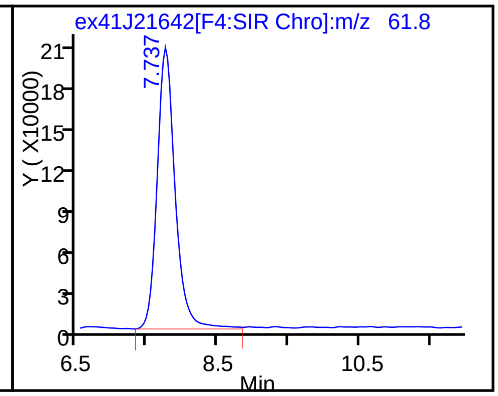
* 18 2,4-dinitrotoluene-d3



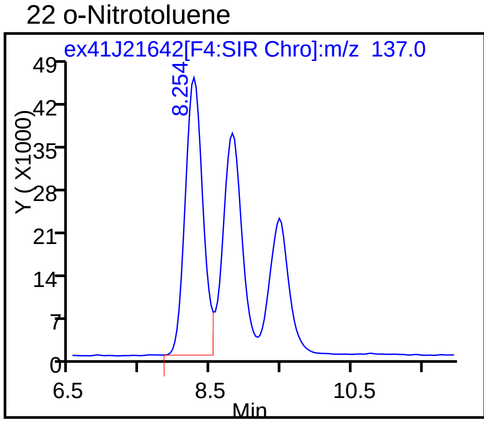
19 2,4-Dinitrotoluene



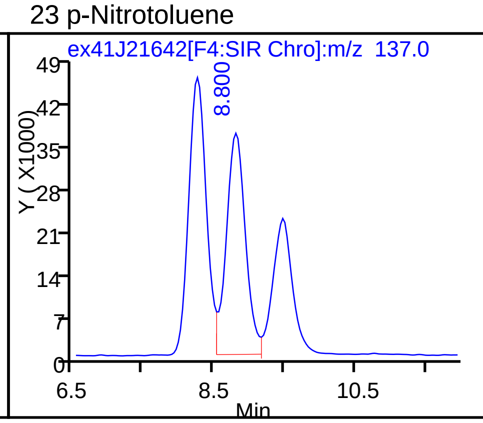
20 PETN



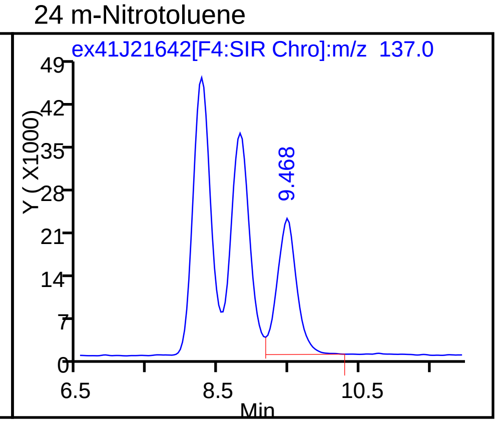
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSSRM 280-92116/2-B

Matrix: Solid   Lab File ID: ex41J21644.d

Analysis Method: 8321B   Date Collected:

Extraction Method: 8330B   Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.18(g)   Date Analyzed: 11/02/2011 06:23

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.578		0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.610		0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.610		0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.581		0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.536		0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.547		0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.563		0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.512		0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.518		0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.530		0.098	0.025	0.011
2691-41-0	HMX	0.568		0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.496		0.098	0.012	0.011
55-63-0	Nitroglycerin	0.549		0.098	0.012	0.010
78-11-5	PETN	0.634		0.098	0.012	0.0051
121-82-4	RDX	0.517		0.098	0.012	0.0042

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21644.d		
Lims ID:	LCSSRM 280-92116/2-B	Client ID:	
Inject. Date:	02-Nov-2011 06:23:01	Dil. Factor:	1.0000
Sample Type:	LCSSRM		
Sample ID:	LCSSRM 280-92116/2-B 280-0002689-168		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	102
Lims Batch ID:	94252	Lims Sample ID:	168
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

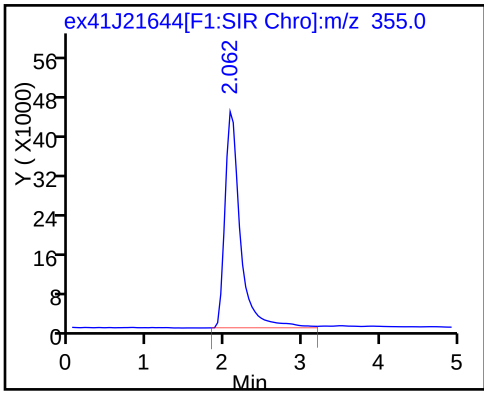
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	615423	144.6			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		473445	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1912642	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	957586	131.5			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	855892	147.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1256065	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	5.035	-0.041	1.008	848596	155.2			
9 Nitroglycerin										
2	61.8	5.034	5.035	-0.001	1.016	4570168	139.7			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.439	-0.034	1.091	3744970	155.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	522592	84.2			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	623202	126.3			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.850	2540844	131.8			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	3304921	139.1			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	5884815	136.5			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4051097	250.0			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.262	-0.001	1.008	3060001	147.9			
20 PETN										
4	61.8	7.737	7.768	-0.031	1.000	5092309	161.3			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	1235633	143.4			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	1037021	134.9			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	618341	130.3			

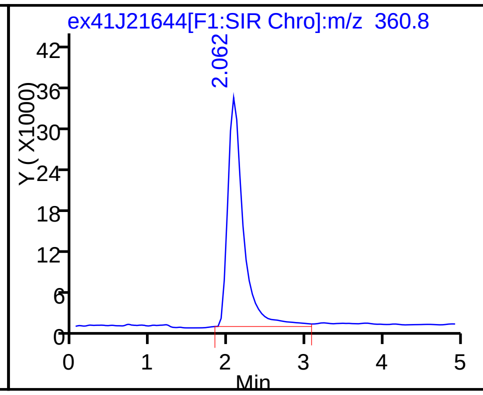
Report Date: 02-Nov-2011 10:22:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21644.d

Injection Date:	02-Nov-2011 06:23:01	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	168
Operator ID:		Injection Vol:	40.00 ul

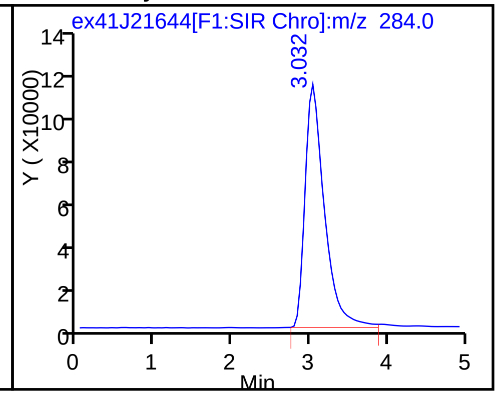
2 HMX



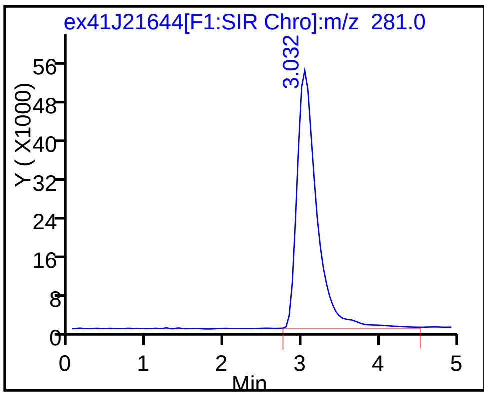
* 1 HMX-13C4



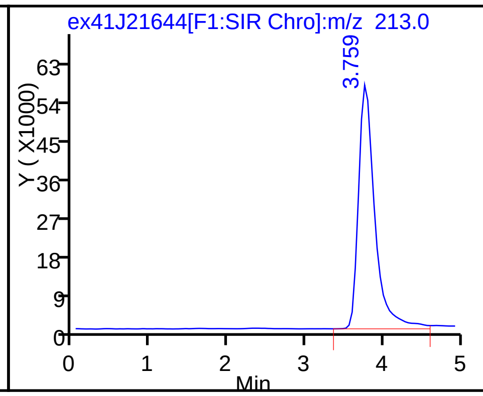
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



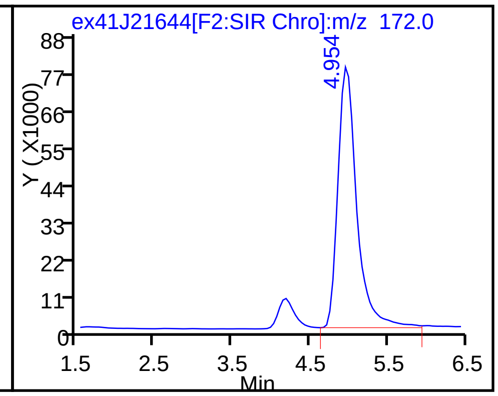
4 RDX



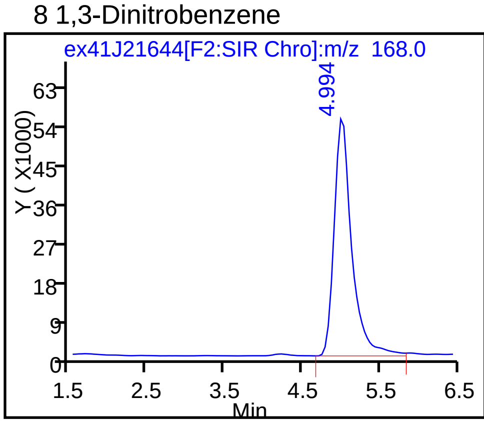
5 1,3,5-Trinitrobenzene



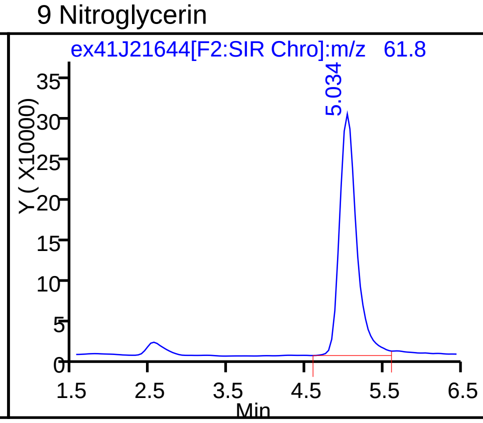
* 7 1,3-Dinitrobenzene-d4



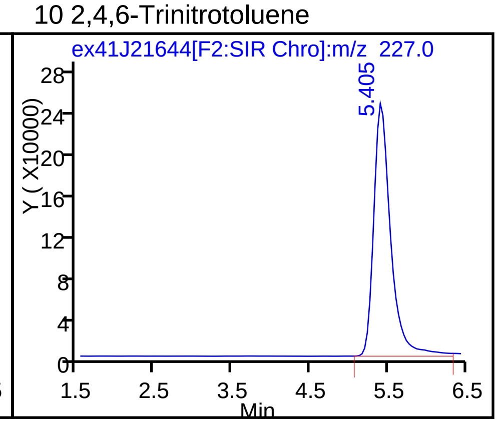
8 1,3-Dinitrobenzene



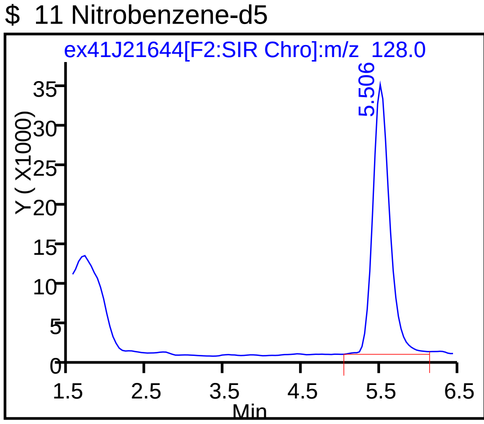
9 Nitroglycerin



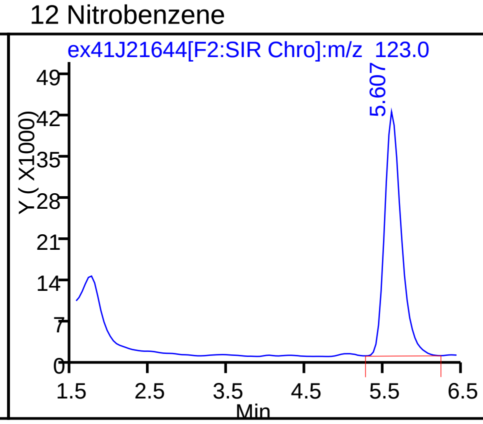
10 2,4,6-Trinitrotoluene



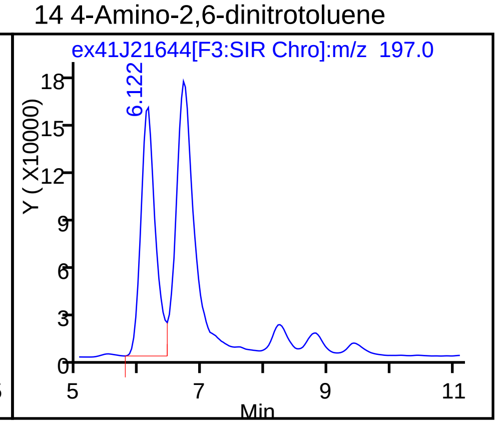
$ 11 Nitrobenzene-d5



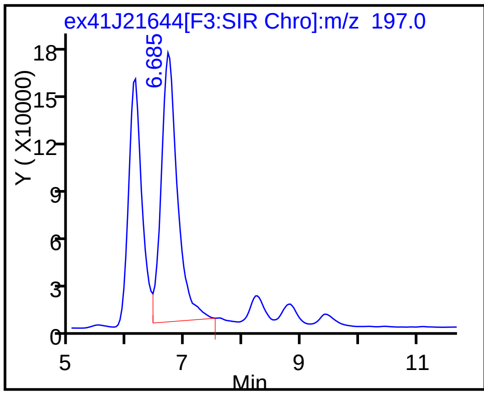
12 Nitrobenzene



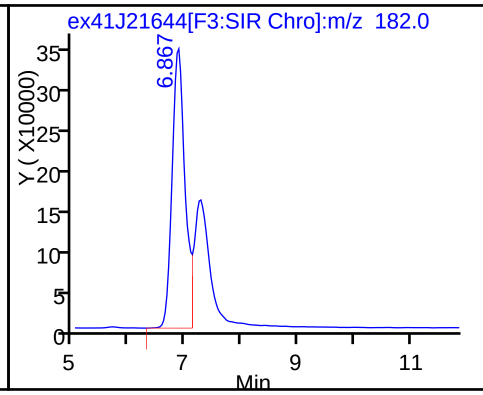
14 4-Amino-2,6-dinitrotoluene



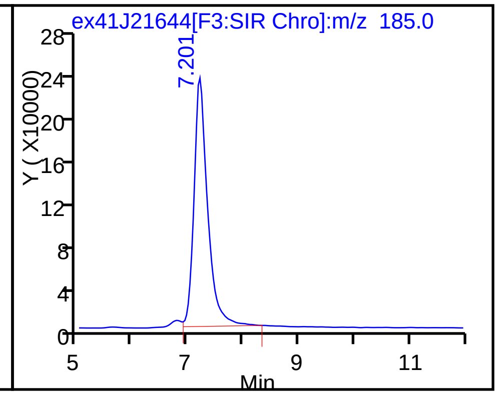
16 2-Amino-4,6-dinitrotoluene



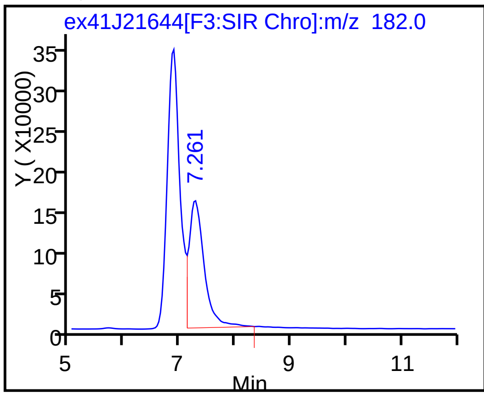
17 2,6-Dinitrotoluene



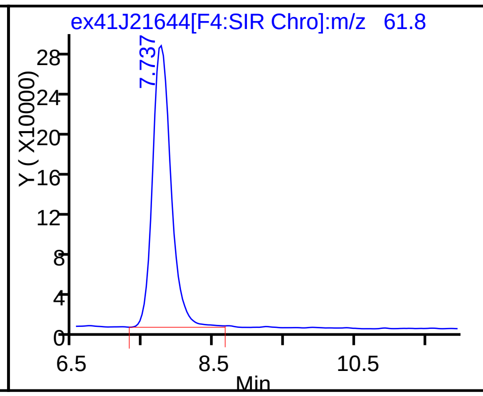
* 18 2,4-dinitrotoluene-d3



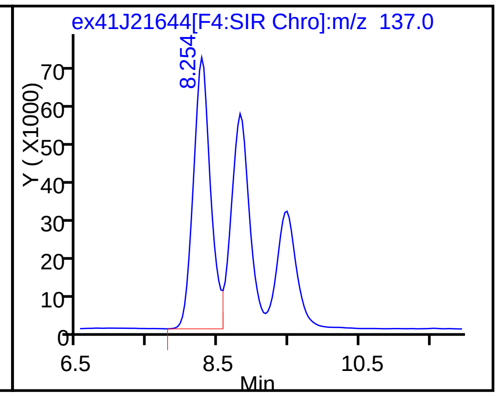
19 2,4-Dinitrotoluene



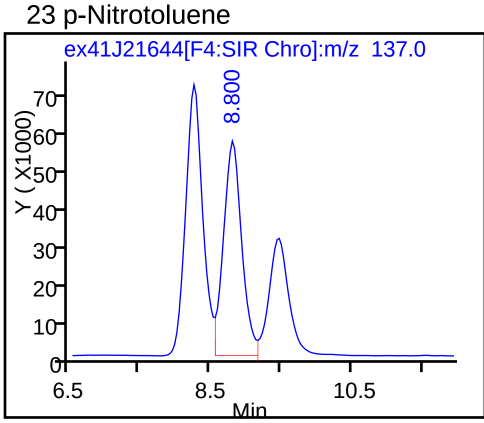
20 PETN



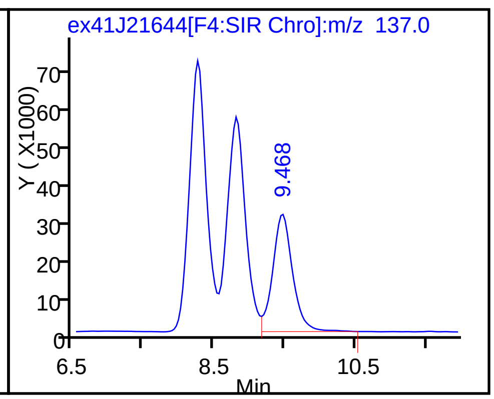
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG27 SB106 MS | Lab Sample ID: 280-21683-11 MS

Matrix: Solid | Lab File ID: ex41J21202.d

Analysis Method: 8321B | Date Collected: 10/14/2011 10:09

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:15

Sample wt/vol: 10.32(g) | Date Analyzed: 10/26/2011 08:37

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92964 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.282		0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.357		0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.298		0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.359		0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.327		0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.386		0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.370		0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.379		0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.329		0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.346		0.097	0.024	0.011
2691-41-0	HMX	0.296		0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.337		0.097	0.012	0.010
55-63-0	Nitroglycerin	0.323		0.097	0.012	0.010
78-11-5	PETN	0.415		0.097	0.012	0.0050
121-82-4	RDX	0.342		0.097	0.012	0.0042
479-45-8	Tetryl	0.293		0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21202.d		
Lims ID:	280-21683-A-11-D MS	Client ID:	
Inject. Date:	26-Oct-2011 08:37:45	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	280-21683-A-11-D MS 280-0002644-195		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	55
Lims Batch ID:	92964	Lims Sample ID:	195
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 09:44:20	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		814661	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	556832	76.4			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	953509	88.3			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2831902	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.759	0.040	1.000	562012	72.7			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.903	681602	75.6			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1697630	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.035	0.033	1.015	678307	92.0			
9 Nitroglycerin										
2	61.8	5.068	5.035	0.033	1.015	3662226	83.3			
10 2,4,6-Trinitrotoluene										
2	227.0	5.472	5.405	0.067	1.096	2494935	76.9			
$ 11 Nitrobenzene-d5										
2	128.0	5.573	5.506	0.067	1.116	637840	76.0			
12 Nitrobenzene										
2	123.0	5.674	5.607	0.067	1.136	579100	86.9			
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.122	0.034	0.848	1999888	84.8			
15 2,3-Dinitrotoluene										
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.776	6.715	0.061	0.933	2896423	99.5			
17 2,6-Dinitrotoluene										
3	182.0	6.928	6.867	0.061	0.954	4445903	84.3			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.261	7.201	0.060		4959096	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.353	7.261	0.092	1.013	2340525	92.5			
20 PETN										
4	61.8	7.798	7.737	0.061	1.000	4163473	107.1			
21 3,5-Dinitrotoluene										
3	182.0		7.869							
22 o-Nitrotoluene										
4	137.0	8.345	8.254	0.091	1.000	1007960	95.5			
23 p-Nitrotoluene										
4	137.0	8.891	8.800	0.091	1.000	839828	89.3			
24 m-Nitrotoluene										
4	137.0	9.559	9.468	0.091	1.000	567944	97.8			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

QC Flag Legend

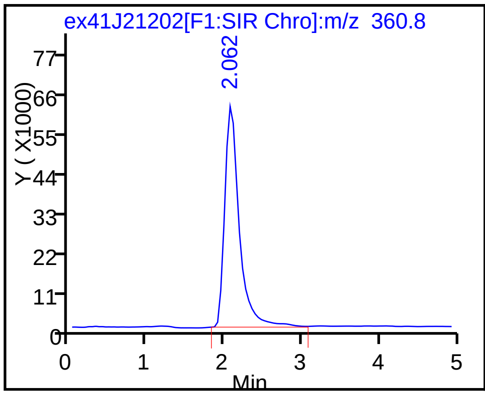
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 09:44:23 Chrom Revision: 1.2 13-Jul-2011 10:43:06

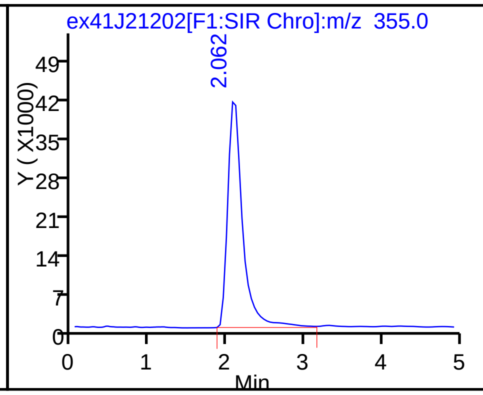
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21202.d

Injection Date:	26-Oct-2011 08:37:45	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	195
Operator ID:		Injection Vol:	40.00 ul

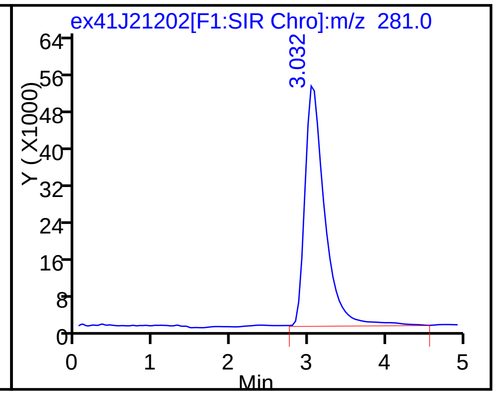
* 1 HMX-13C4



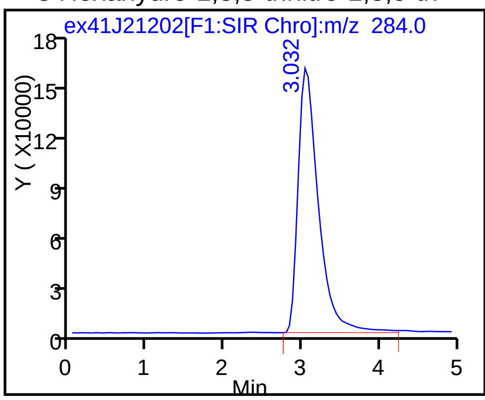
2 HMX



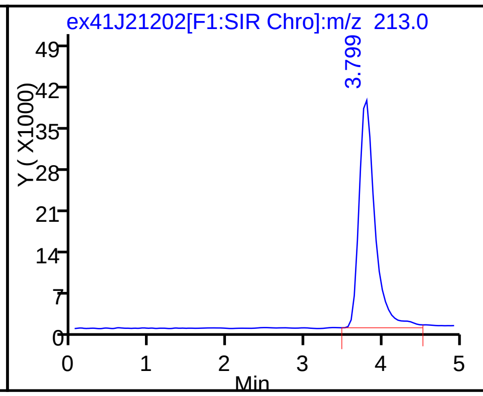
4 RDX



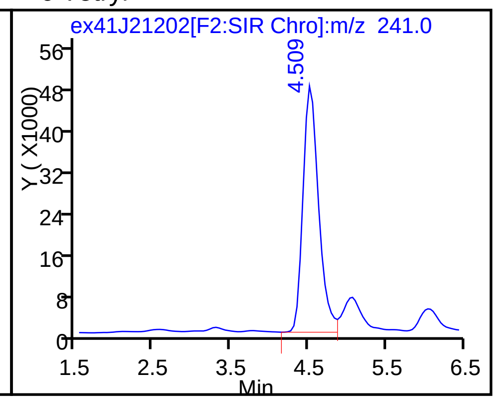
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



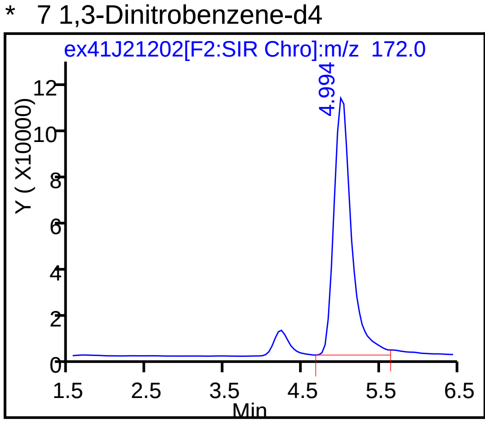
5 1,3,5-Trinitrobenzene



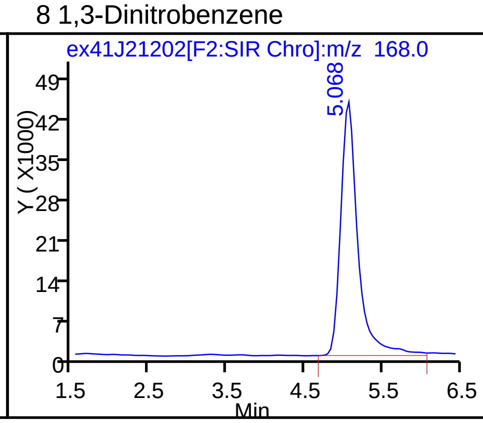
6 Tetryl



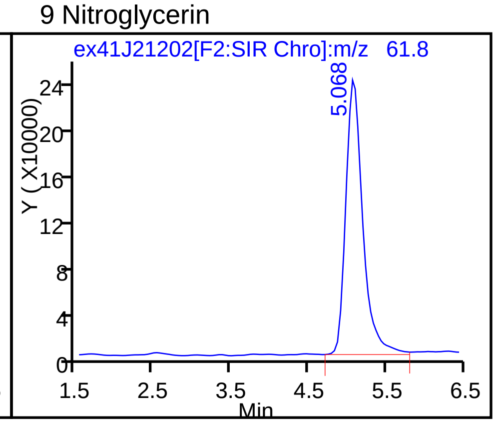
* 7 1,3-Dinitrobenzene-d4



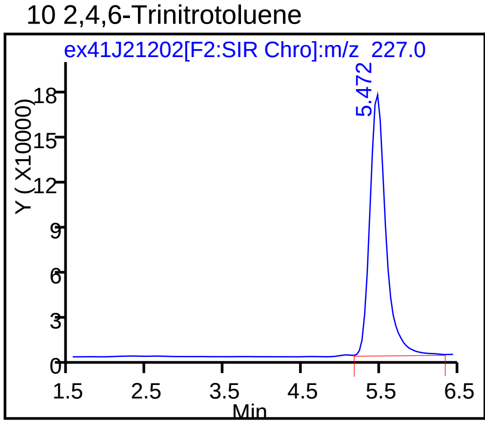
8 1,3-Dinitrobenzene



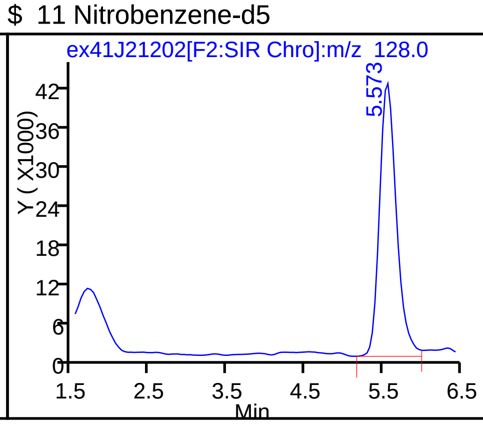
9 Nitroglycerin



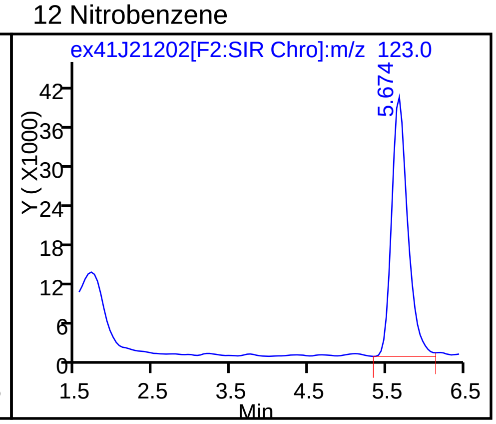
10 2,4,6-Trinitrotoluene



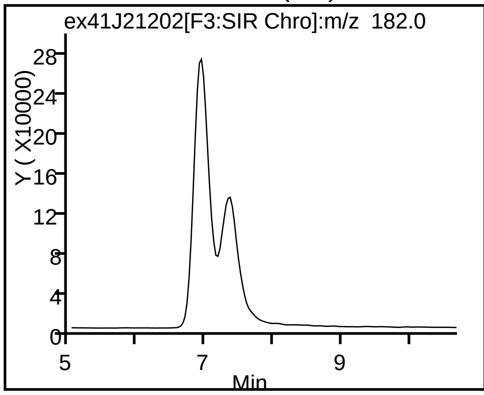
$ 11 Nitrobenzene-d5



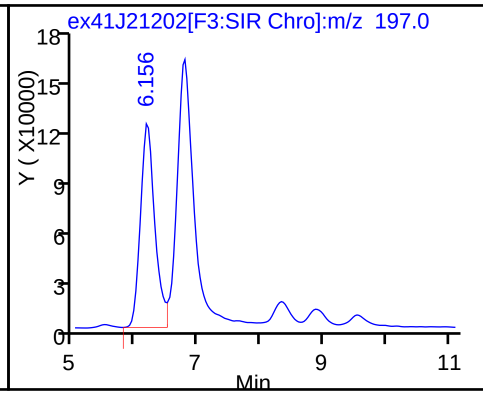
12 Nitrobenzene



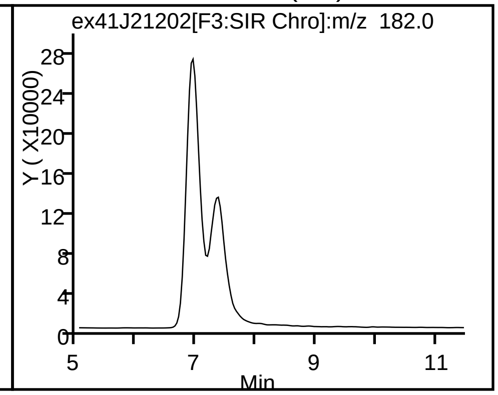
13 3,4-Dinitrotoluene (ND)



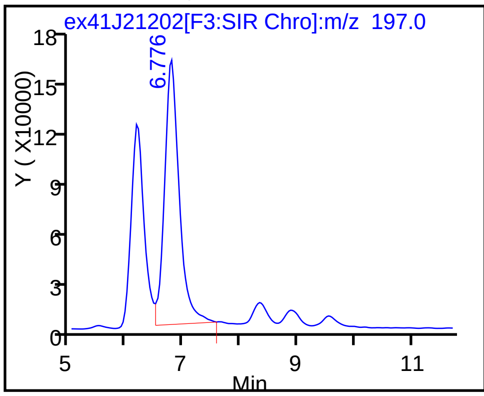
14 4-Amino-2,6-dinitrotoluene



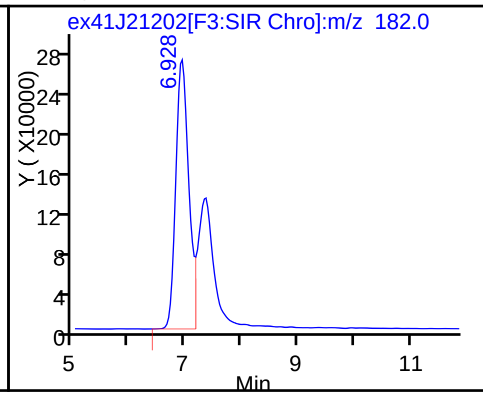
15 2,3-Dinitrotoluene (ND)



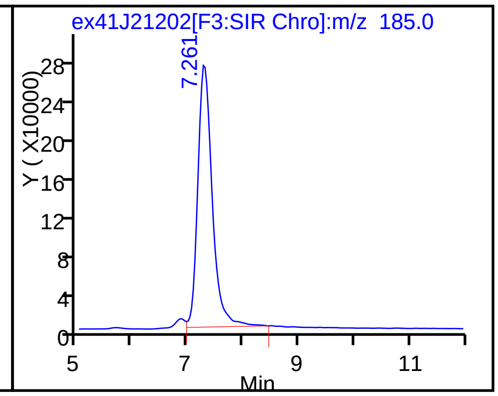
16 2-Amino-4,6-dinitrotoluene



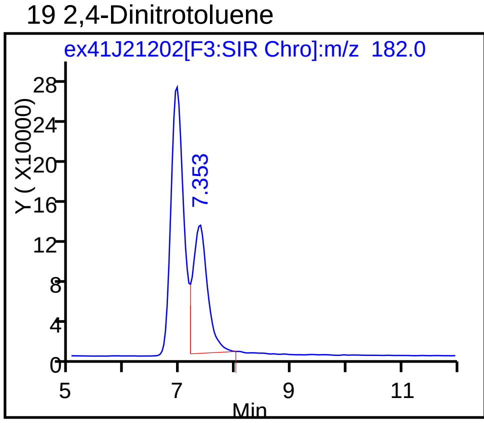
17 2,6-Dinitrotoluene



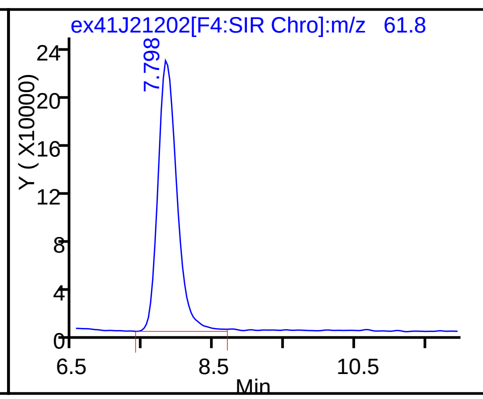
* 18 2,4-dinitrotoluene-d3



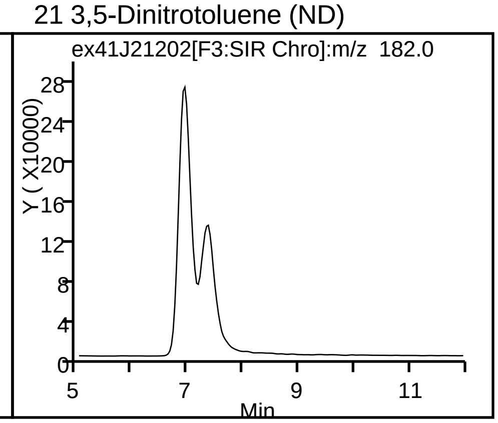
19 2,4-Dinitrotoluene



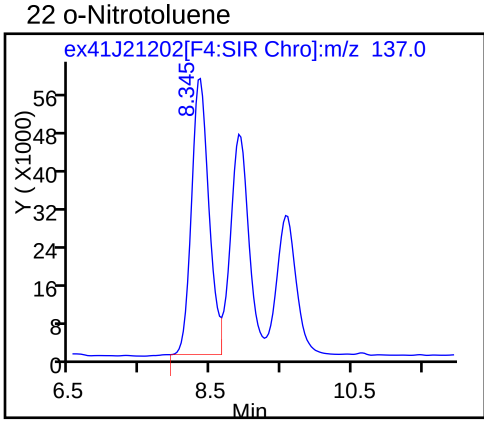
20 PETN



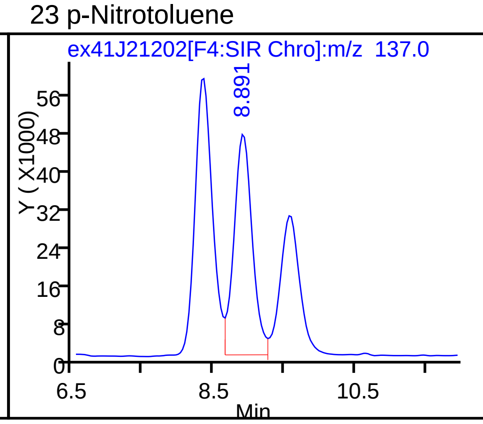
21 3,5-Dinitrotoluene (ND)



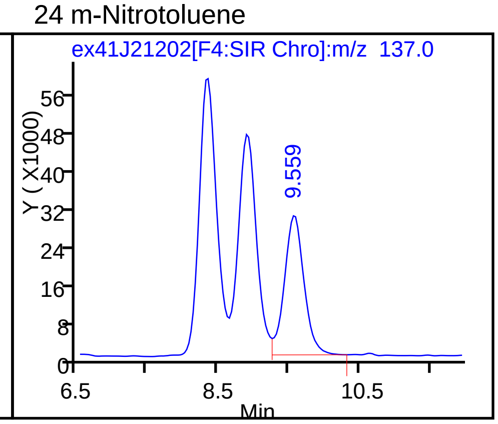
22 o-Nitrotoluene



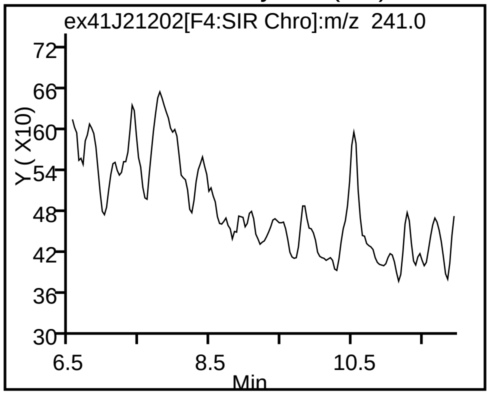
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG21 SB092 MS | Lab Sample ID: 280-21683-18 MS

Matrix: Solid | Lab File ID: ex41J21162.d

Analysis Method: 8321B | Date Collected: 10/14/2011 09:05

Extraction Method: 8330B | Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.16(g) | Date Analyzed: 10/25/2011 15:36

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.305		0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.350		0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.315		0.098	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.360		0.098	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.336		0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.469		0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.363		0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.348		0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.359		0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.343		0.098	0.025	0.011
2691-41-0	HMX	0.327		0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.324		0.098	0.012	0.011
55-63-0	Nitroglycerin	0.318		0.098	0.012	0.010
78-11-5	PETN	0.419		0.098	0.012	0.0051
121-82-4	RDX	0.352		0.098	0.012	0.0043
479-45-8	Tetryl	0.286		0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21162.d		
Lims ID:	280-21683-A-18-D MS	Client ID:	
Inject. Date:	25-Oct-2011 15:36:28	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	280-21683-A-18-D MS 280-0002644-157		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	29
Lims Batch ID:	92961	Lims Sample ID:	157
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:27:03	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		785695	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	584189	83.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	960411	89.3			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2822576	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	612185	77.4			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	669039	72.7			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1733488	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	669886	89.0			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	3623956	80.8			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	2652245	80.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	630878	73.6			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	559354	82.2			
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.122	-0.034	0.845	2429300	91.2			
15 2,3-Dinitrotoluene										
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.932	3911778	119.0			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.867	-0.030	0.949	5085331	85.3			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5601560	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.261	0.031	1.013	2615637	91.5			
20 PETN										
4	61.8	7.737	7.737	0.000	1.000	4676700	106.5			
21 3,5-Dinitrotoluene										
3	182.0		7.869							
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	1098137	92.1			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	923701	87.0			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	579984	88.4			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

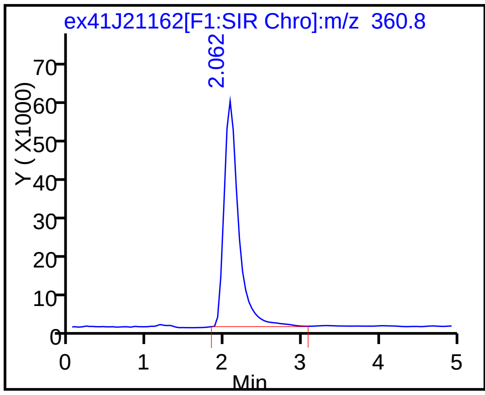
QC Flag Legend

Processing Flags
1 - Missing Peaks

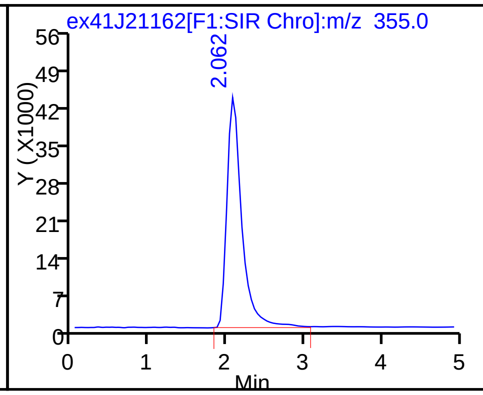
Report Date: 26-Oct-2011 06:24:12 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21162.d

Injection Date:	25-Oct-2011 15:36:28	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	157
Operator ID:		Injection Vol:	40.00 ul

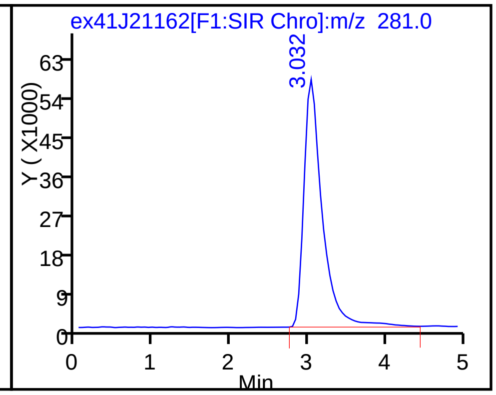
* 1 HMX-13C4



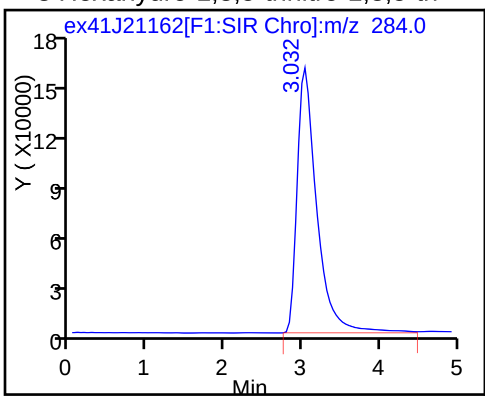
2 HMX



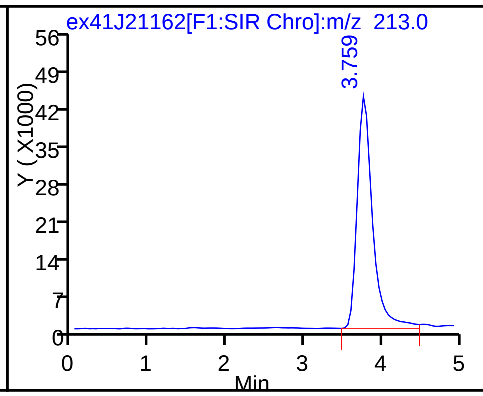
4 RDX



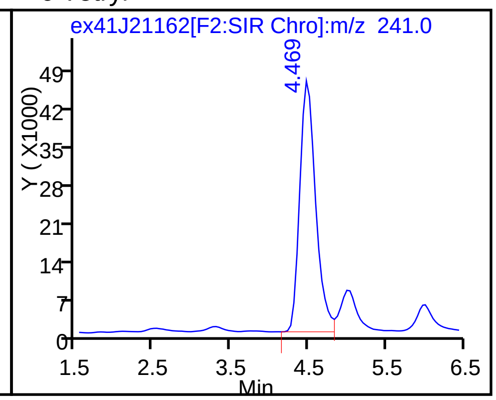
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



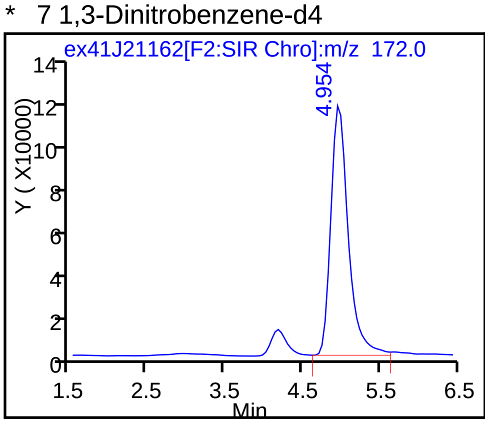
5 1,3,5-Trinitrobenzene



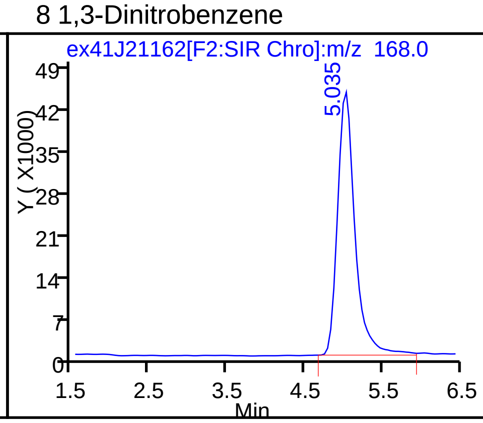
6 Tetryl



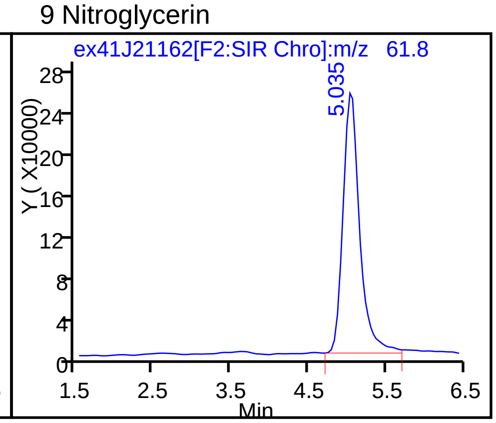
* 7 1,3-Dinitrobenzene-d4



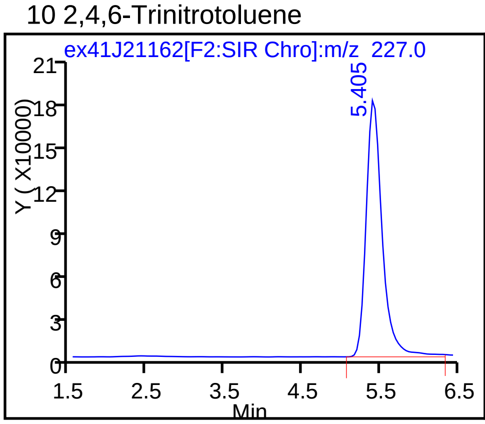
8 1,3-Dinitrobenzene



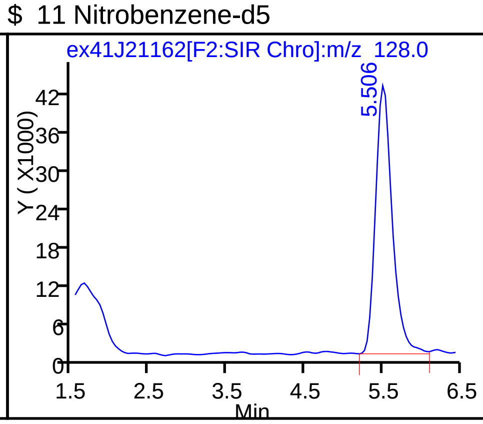
9 Nitroglycerin



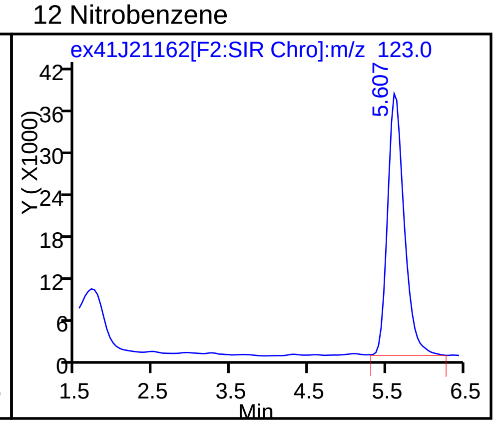
10 2,4,6-Trinitrotoluene



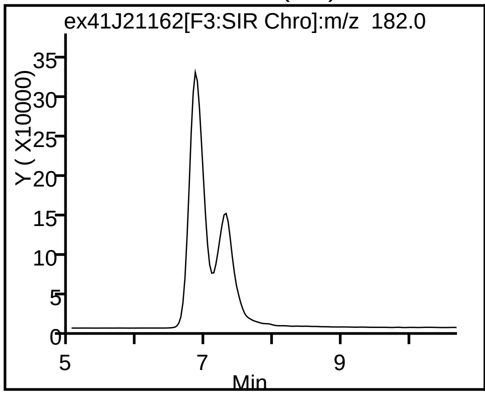
$ 11 Nitrobenzene-d5



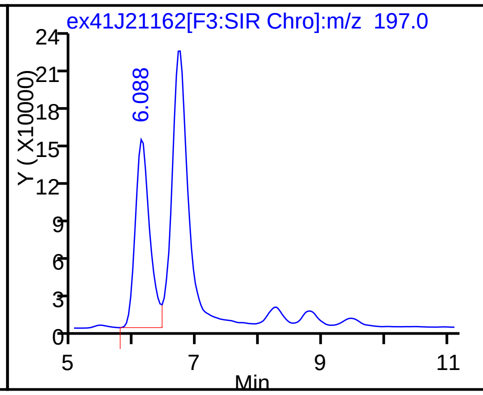
12 Nitrobenzene



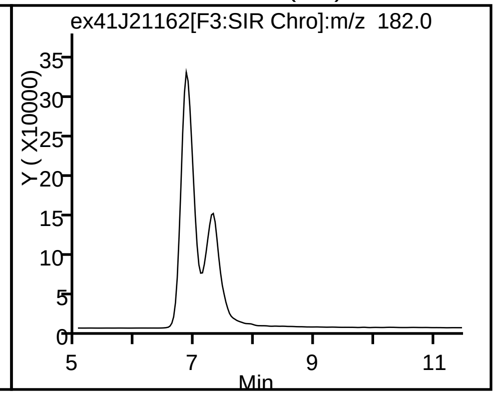
13 3,4-Dinitrotoluene (ND)



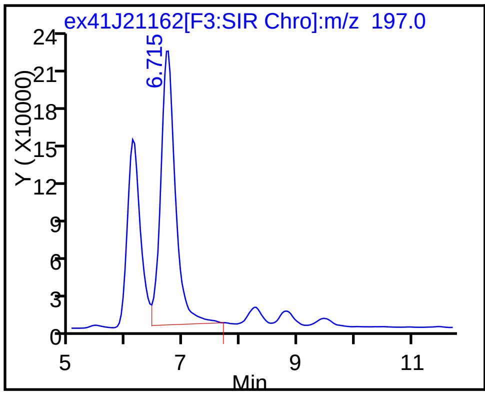
14 4-Amino-2,6-dinitrotoluene



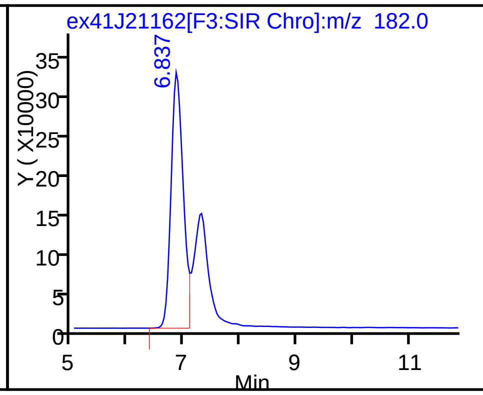
15 2,3-Dinitrotoluene (ND)



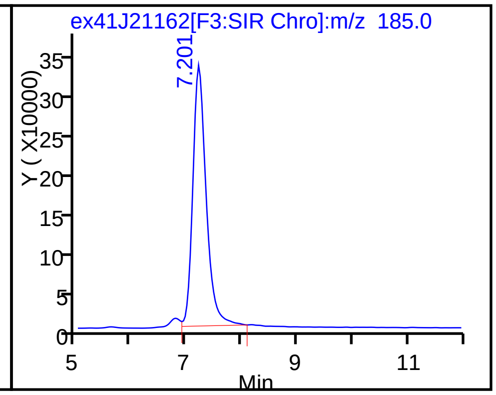
16 2-Amino-4,6-dinitrotoluene



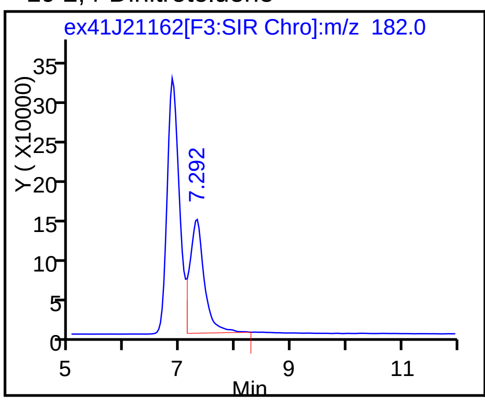
17 2,6-Dinitrotoluene



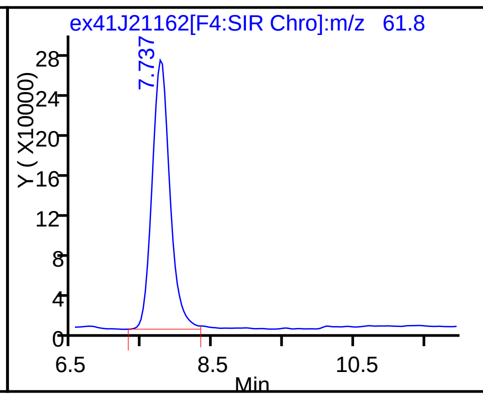
* 18 2,4-dinitrotoluene-d3



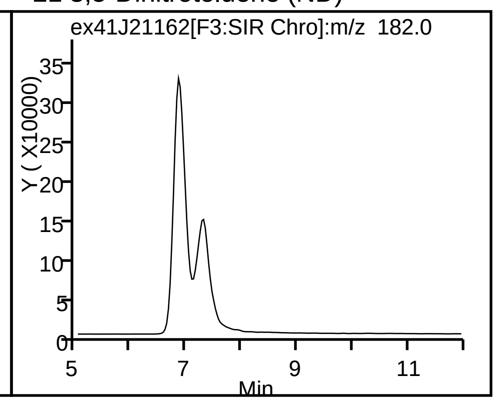
19 2,4-Dinitrotoluene



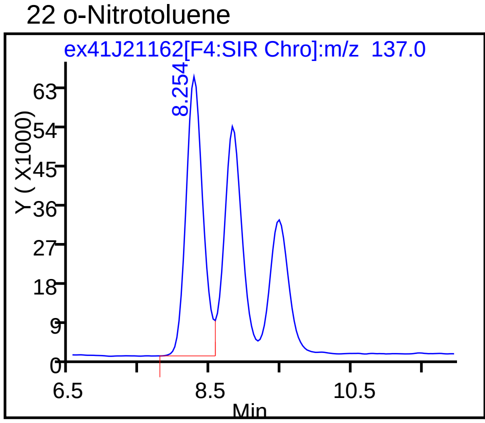
20 PETN



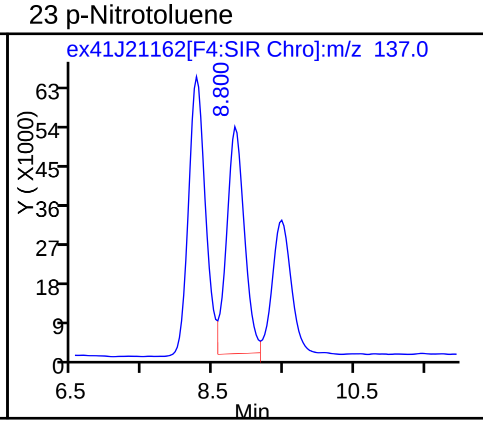
21 3,5-Dinitrotoluene (ND)



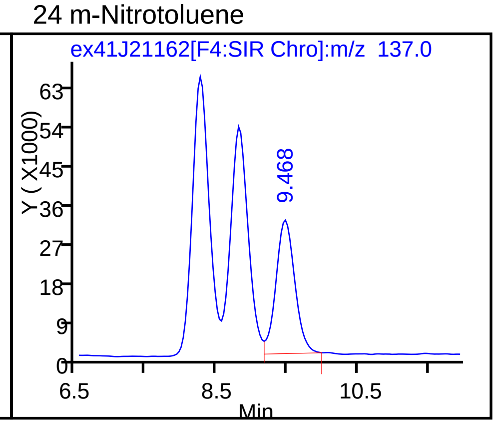
22 o-Nitrotoluene



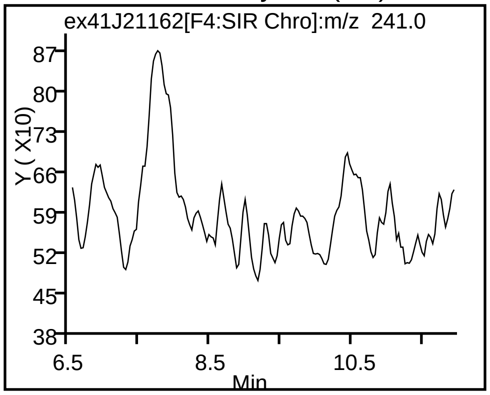
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver	Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG03 SB057 MS	Lab Sample ID: 280-21683-47 MS

Matrix: Solid	Lab File ID: ex41J21579.d

Analysis Method: 8321B	Date Collected: 10/15/2011 13:53

Extraction Method: 8330B	Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.07(g)	Date Analyzed: 11/01/2011 15:36

Con. Extract Vol.: 40(mL)	Dilution Factor: 1

Injection Volume: 40(uL)	GC Column: IonPac	ID: 2(mm)

% Moisture:	GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192	Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.301		0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.375		0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.265		0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.345		0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.350		0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.411		0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.346		0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.351		0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.388		0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.325		0.099	0.025	0.011
2691-41-0	HMX	0.330		0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.344		0.099	0.012	0.011
55-63-0	Nitroglycerin	0.357		0.099	0.012	0.010
78-11-5	PETN	0.411		0.099	0.012	0.0051
121-82-4	RDX	0.356		0.099	0.012	0.0043
479-45-8	Tetryl	0.274		0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21579.d		
Lims ID:	280-21683-B-47-C MS	Client ID:	
Inject. Date:	01-Nov-2011 15:36:29	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	280-21683-B-47-C MS 280-0002689-103		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	44
Lims Batch ID:	94192	Lims Sample ID:	103
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:28	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	443666	83.2			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		595147	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1675857	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	571669	89.5			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	533567	75.7			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	565408	69.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1544103	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	633774	94.5			
9 Nitroglycerin										
2	61.8	5.035	5.068	-0.033	1.016	3595579	89.8			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.439	0.000	1.098	1969964	66.8			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	582360	76.3			
12 Nitrobenzene										
2	123.0	5.641	5.607	0.034	1.139	524643	86.5			
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.122	-0.034	0.845	1960080	97.7			
15 2,3-Dinitrotoluene										
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.932	2559032	103.4			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	3957816	88.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4216648	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.322	7.292	0.030	1.017	1866644	86.8			
20 PETN										
4	61.8	7.737	7.768	-0.031	1.000	3422687	103.4			
21 3,5-Dinitrotoluene										
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	782503	87.2			
23 p-Nitrotoluene										
4	137.0	8.831	8.831	0.000	1.000	653397	81.8			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	436839	88.4			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

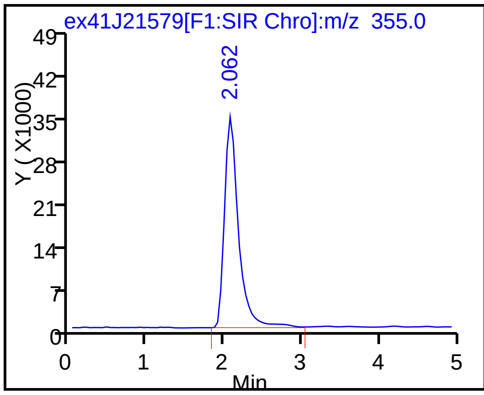
QC Flag Legend

Processing Flags
1 - Missing Peaks

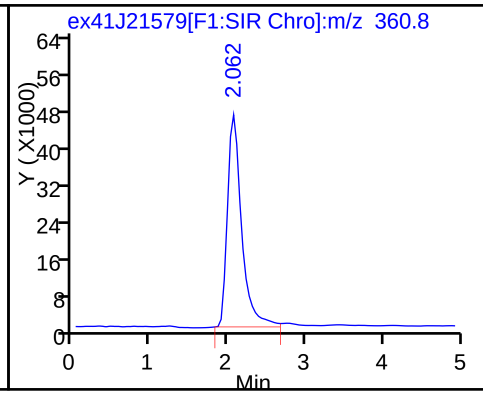
Report Date: 02-Nov-2011 06:41:30 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21579.d

Injection Date:	01-Nov-2011 15:36:29	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	103
Operator ID:		Injection Vol:	40.00 ul

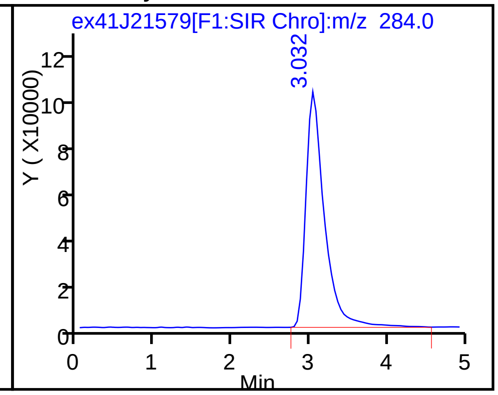
2 HMX



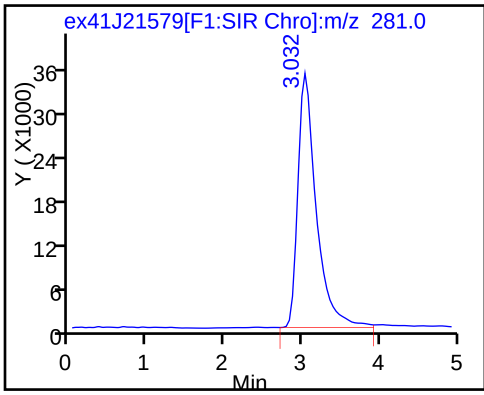
* 1 HMX-13C4



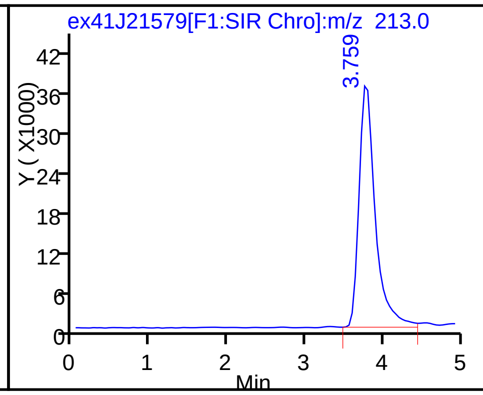
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



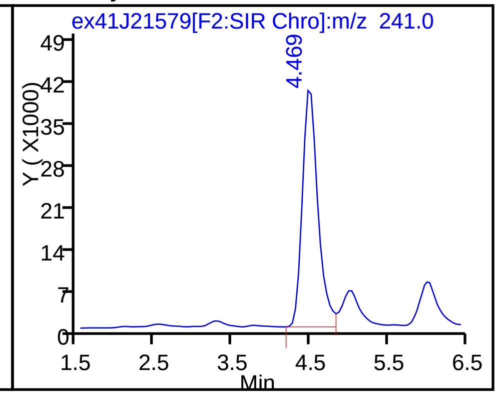
4 RDX



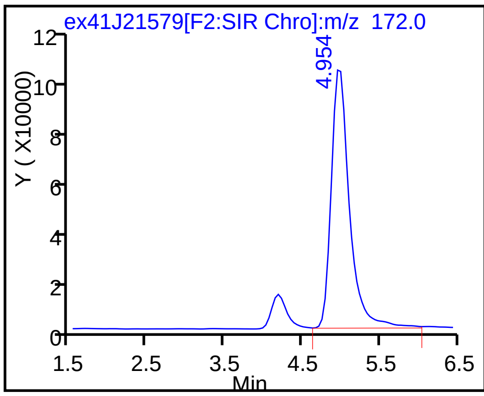
5 1,3,5-Trinitrobenzene



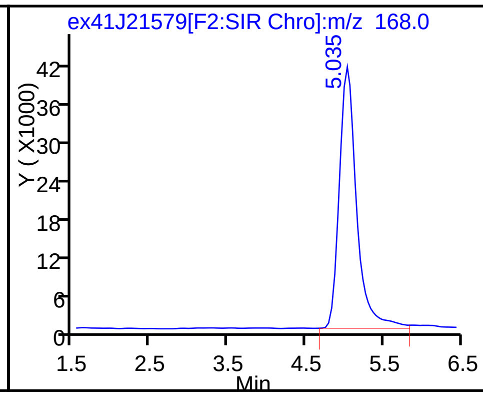
6 Tetryl



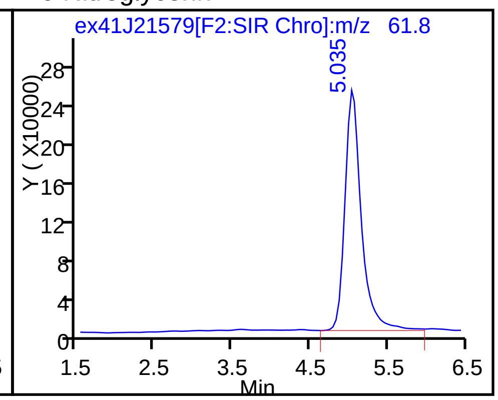
* 7 1,3-Dinitrobenzene-d4



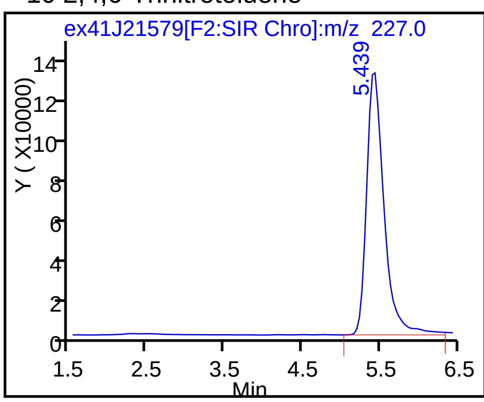
8 1,3-Dinitrobenzene



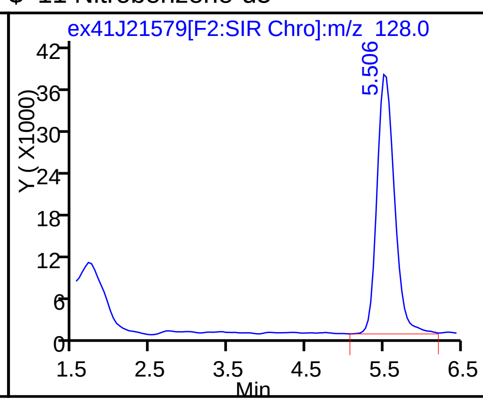
9 Nitroglycerin



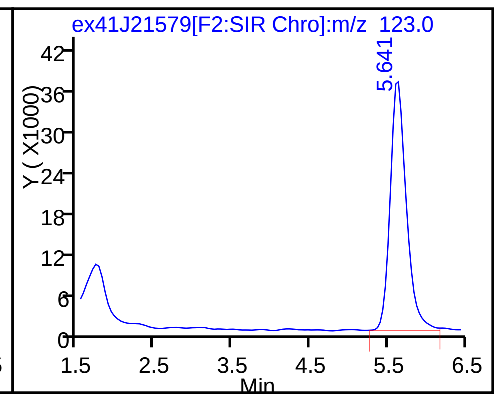
10 2,4,6-Trinitrotoluene



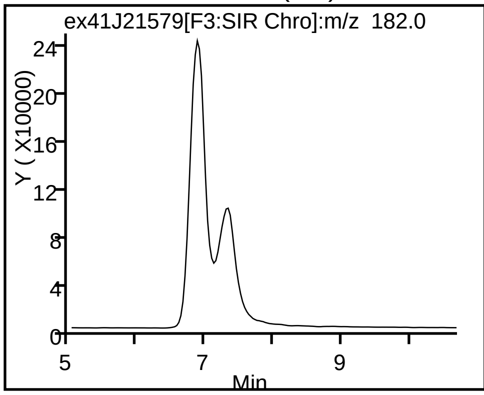
$ 11 Nitrobenzene-d5



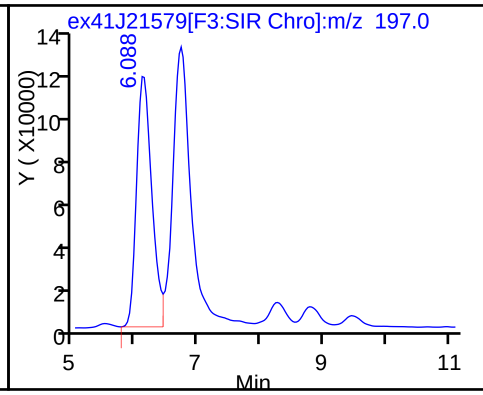
12 Nitrobenzene



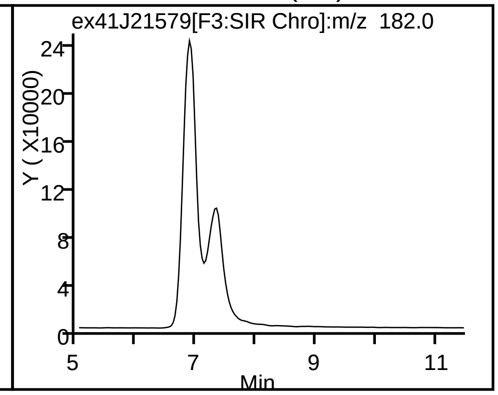
13 3,4-Dinitrotoluene (ND)



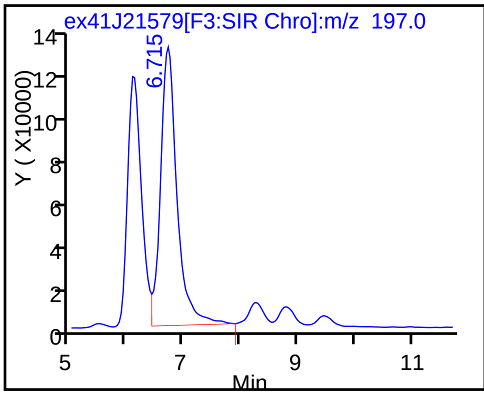
14 4-Amino-2,6-dinitrotoluene



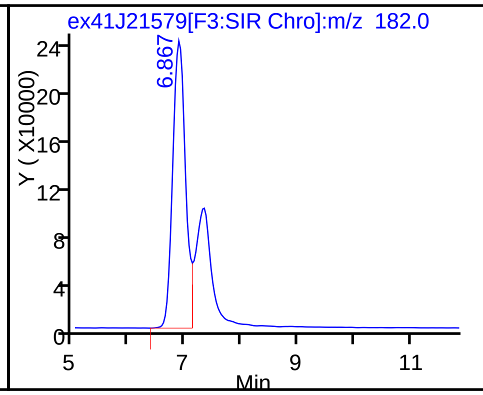
15 2,3-Dinitrotoluene (ND)



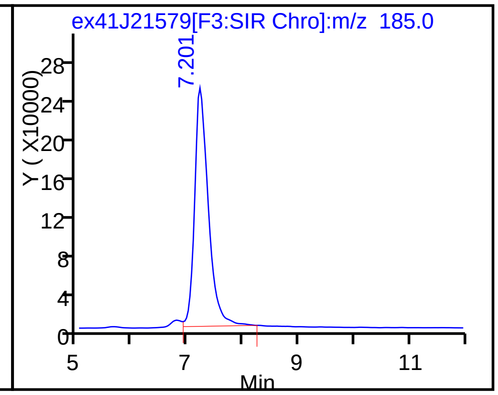
16 2-Amino-4,6-dinitrotoluene



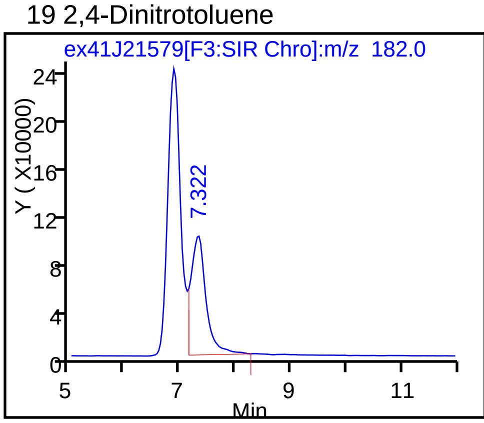
17 2,6-Dinitrotoluene



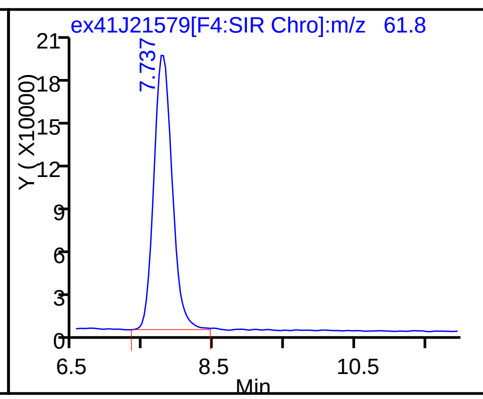
* 18 2,4-dinitrotoluene-d3



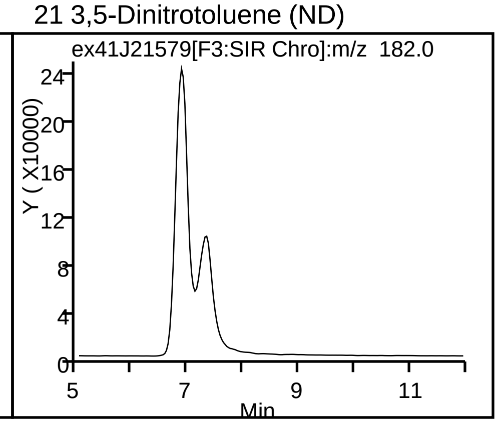
19 2,4-Dinitrotoluene



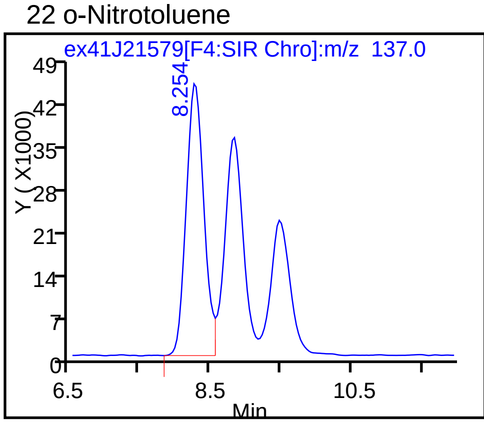
20 PETN



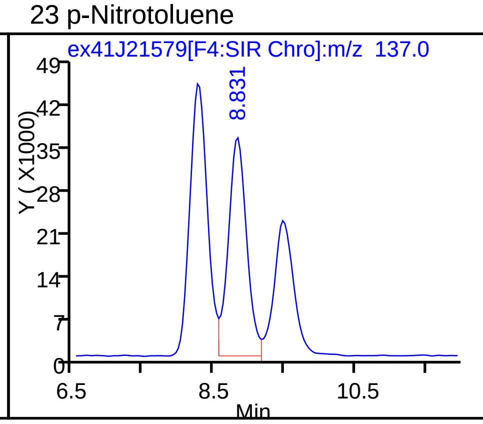
21 3,5-Dinitrotoluene (ND)



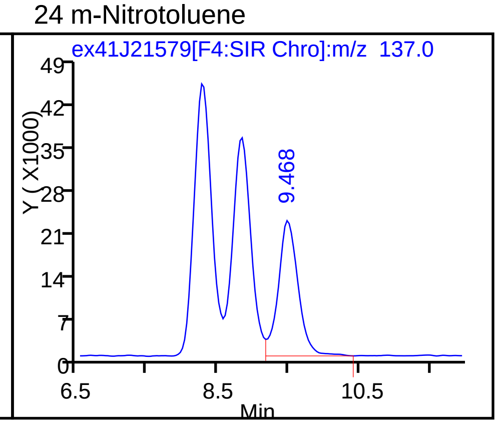
22 o-Nitrotoluene



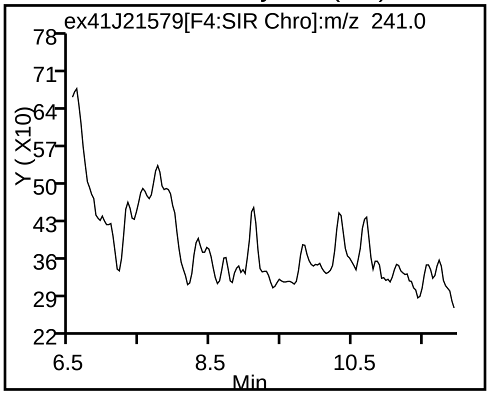
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG12 SB074 MS   Lab Sample ID: 280-21683-54 MS

Matrix: Solid   Lab File ID: ex41J21591.d

Analysis Method: 8321B   Date Collected: 10/15/2011 14:43

Extraction Method: 8330B   Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.13(g)   Date Analyzed: 11/01/2011 18:20

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.293		0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.426		0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.245		0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.397		0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.348		0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.413		0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.369		0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.346		0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.376		0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.342		0.099	0.025	0.011
2691-41-0	HMX	0.338		0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.349		0.099	0.012	0.011
55-63-0	Nitroglycerin	0.378		0.099	0.012	0.010
78-11-5	PETN	0.410		0.099	0.012	0.0051
121-82-4	RDX	0.370		0.099	0.012	0.0043
479-45-8	Tetryl	0.259		0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21591.d		
Lims ID:	280-21683-A-54-D MS	Client ID:	
Inject. Date:	01-Nov-2011 18:20:09	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	280-21683-A-54-D MS 280-0002689-115		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	55
Lims Batch ID:	94193	Lims Sample ID:	115
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:47	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	304132	85.6			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		396435	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1770581	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	631395	93.6			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.759	0.040	1.000	423796	74.1			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.895	436613	65.7			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1254665	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.008	589186	108.0			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.008	3117491	95.8			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.439	0.000	1.089	1484956	62.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	500943	80.8			
12 Nitrobenzene										
2	123.0	5.641	5.641	0.000	1.129	435806	88.5			
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1669680	95.1			
15 2,3-Dinitrotoluene										
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.924	2267015	104.7			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.950	3457486	88.1			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3689651	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.262	0.030	1.008	1895159	100.6			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3008705	103.9			
21 3,5-Dinitrotoluene										
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	733611	93.4			
23 p-Nitrotoluene										
4	137.0	8.831	8.830	0.001	1.000	606534	86.7			
24 m-Nitrotoluene										
4	137.0	9.499	9.499	0.000	1.000	378636	87.6			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

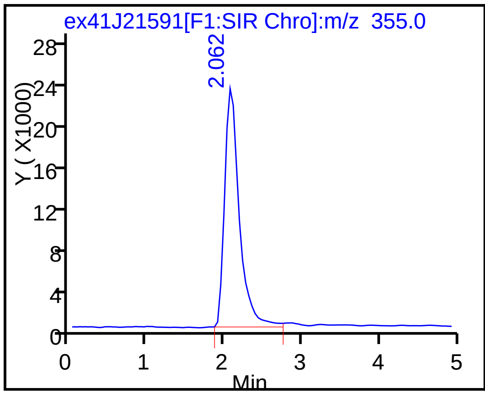
QC Flag Legend

Processing Flags
1 - Missing Peaks

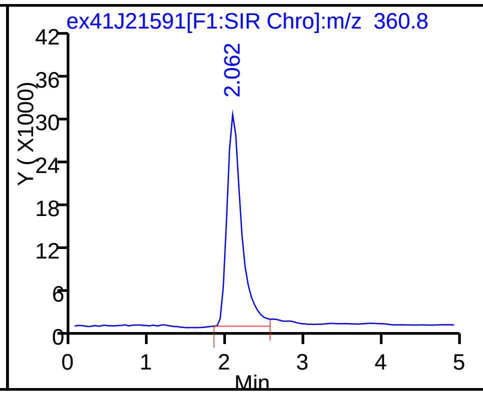
Report Date: 02-Nov-2011 06:47:50 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21591.d		
Injection Date:	01-Nov-2011 18:20:09	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	115
Operator ID:		Injection Vol:	40.00 ul

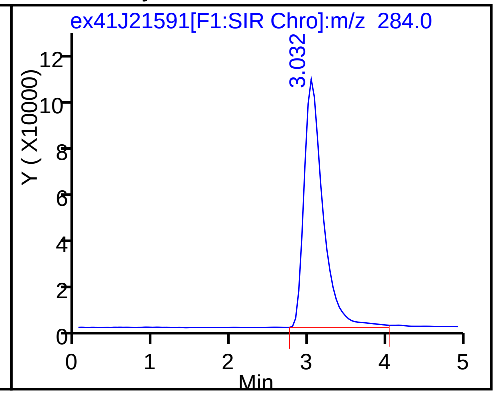
2 HMX



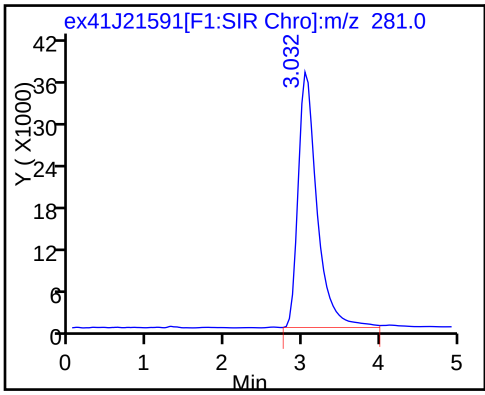
* 1 HMX-13C4



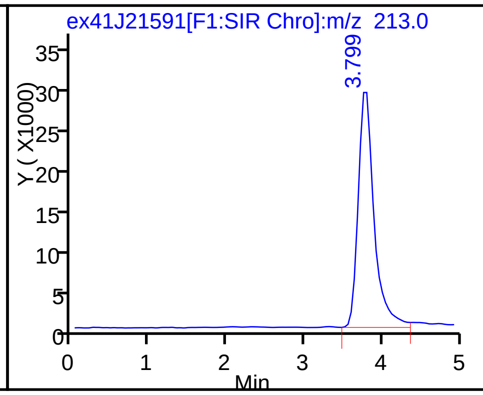
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



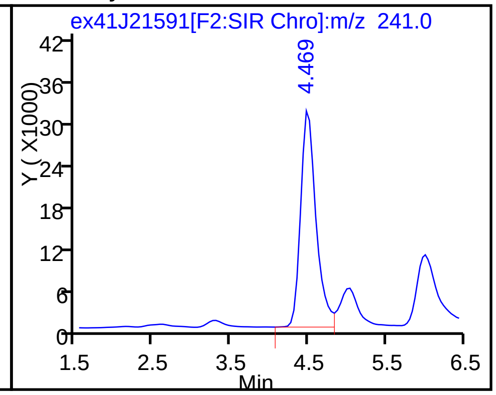
4 RDX



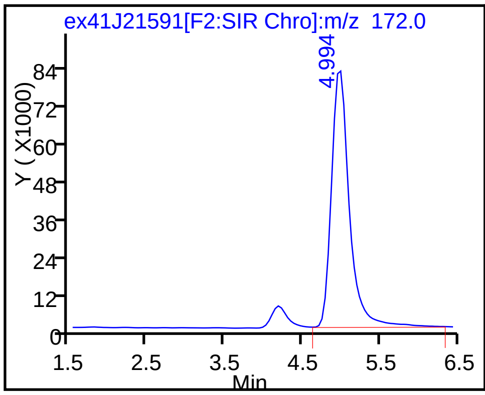
5 1,3,5-Trinitrobenzene



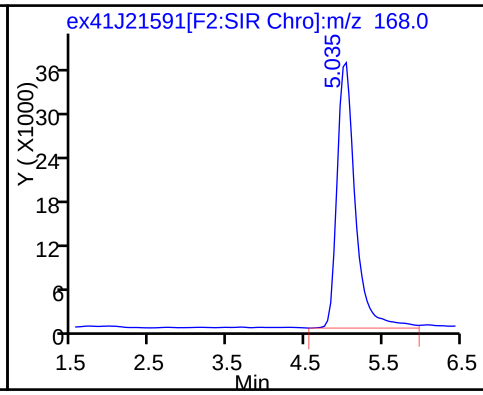
6 Tetryl



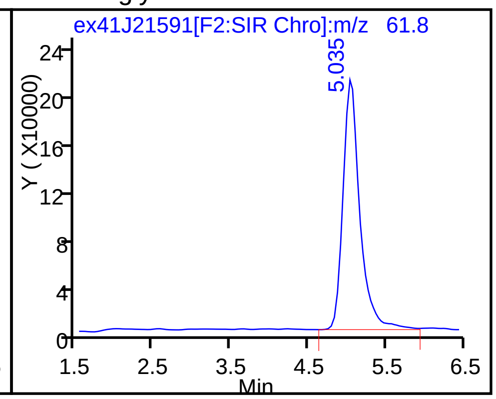
* 7 1,3-Dinitrobenzene-d4



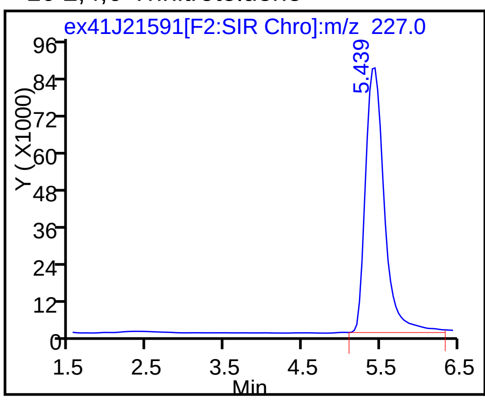
8 1,3-Dinitrobenzene



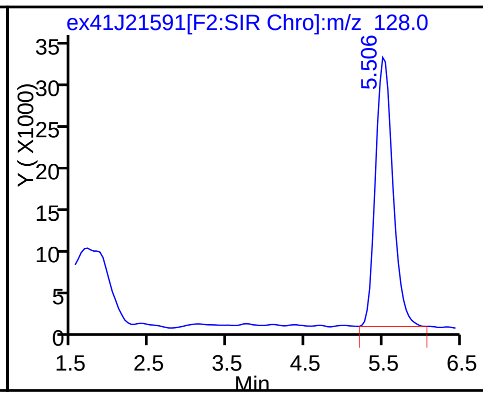
9 Nitroglycerin



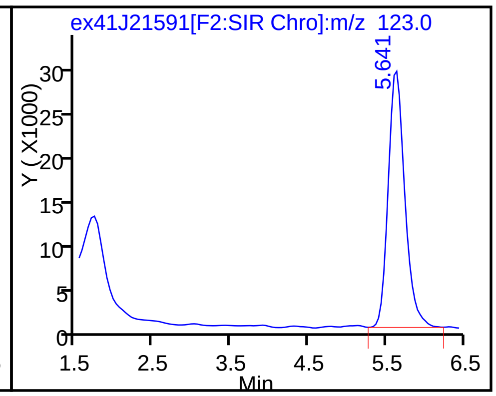
10 2,4,6-Trinitrotoluene



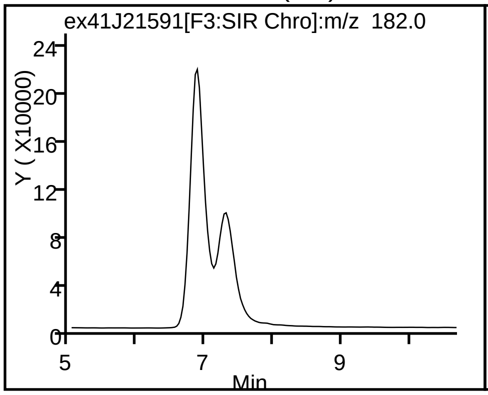
$ 11 Nitrobenzene-d5



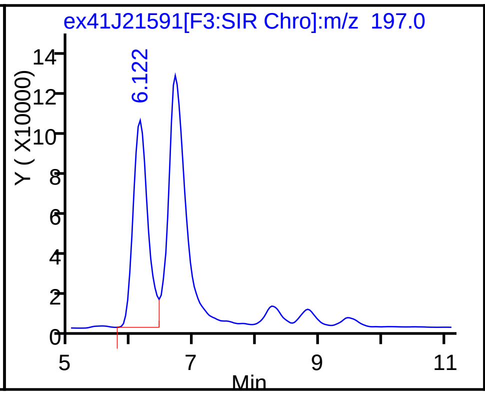
12 Nitrobenzene



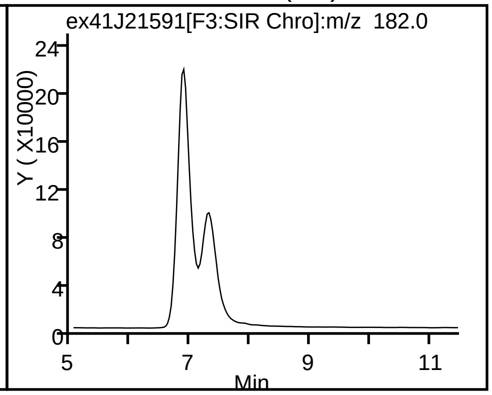
13 3,4-Dinitrotoluene (ND)



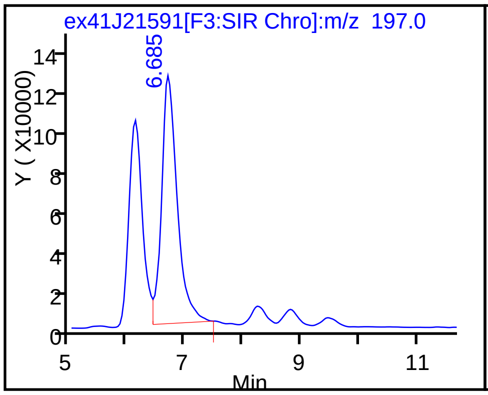
14 4-Amino-2,6-dinitrotoluene



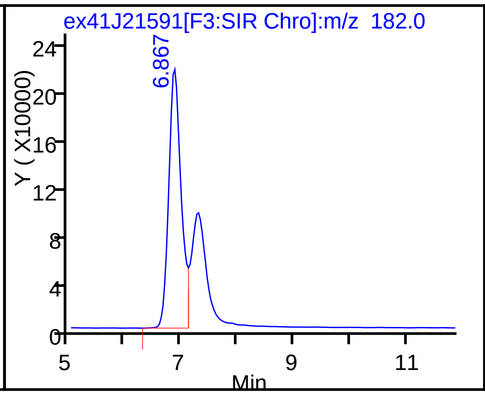
15 2,3-Dinitrotoluene (ND)



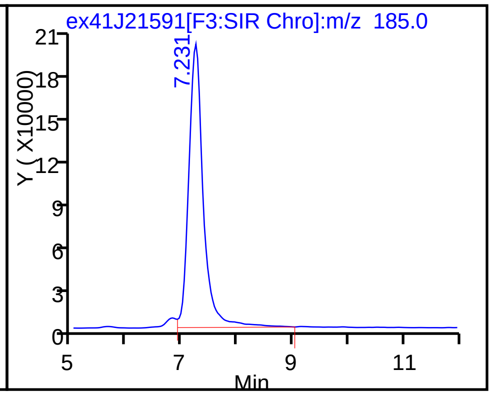
16 2-Amino-4,6-dinitrotoluene



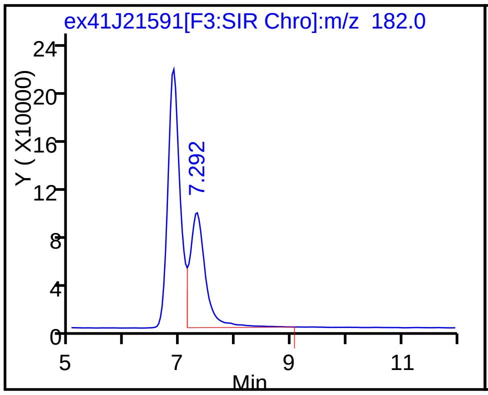
17 2,6-Dinitrotoluene



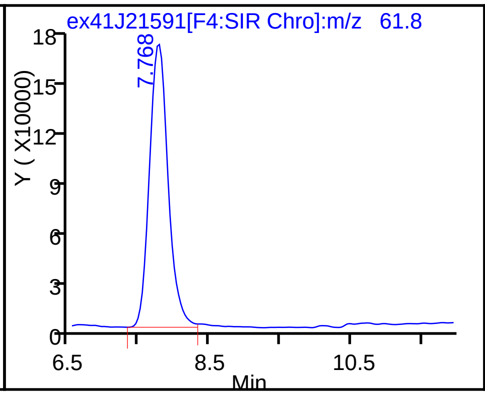
* 18 2,4-dinitrotoluene-d3



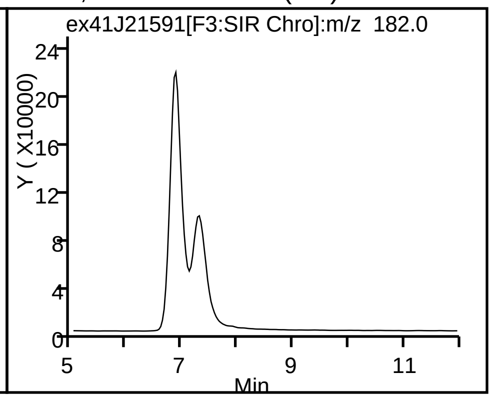
19 2,4-Dinitrotoluene



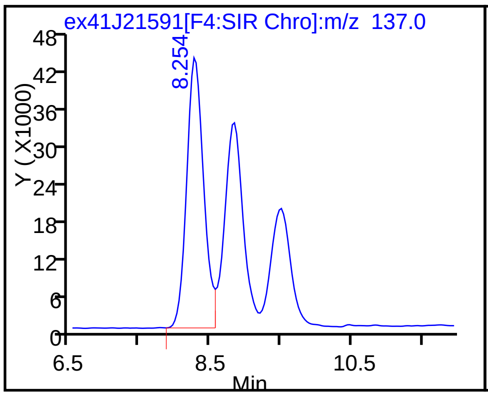
20 PETN



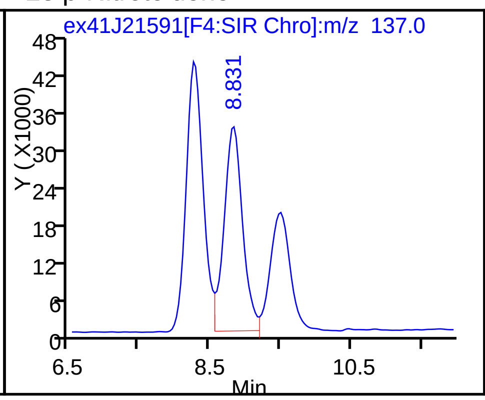
21 3,5-Dinitrotoluene (ND)



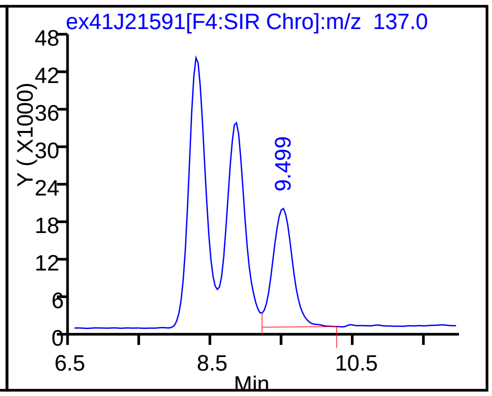
22 o-Nitrotoluene



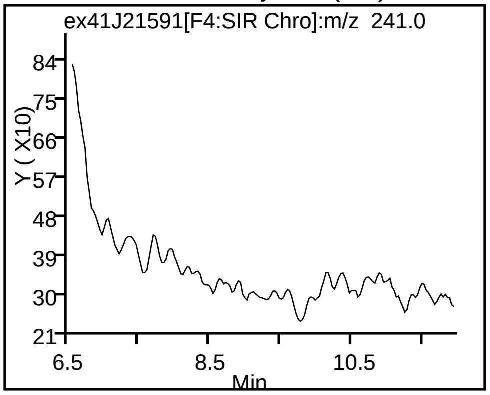
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP09 SB013 MS | Lab Sample ID: 280-21683-80 MS

Matrix: Solid | Lab File ID: ex41J21621.d

Analysis Method: 8321B | Date Collected: 10/16/2011 11:42

Extraction Method: 8330B | Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.15(g) | Date Analyzed: 11/02/2011 01:09

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.321		0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.372		0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.294		0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.369		0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.363		0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.422		0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.379		0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.391		0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.360		0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.362		0.099	0.025	0.011
2691-41-0	HMX	0.312		0.099	0.012	0.0057
98-95-3	Nitrobenzene	0.354		0.099	0.012	0.011
55-63-0	Nitroglycerin	0.351		0.099	0.012	0.010
78-11-5	PETN	0.443		0.099	0.012	0.0051
121-82-4	RDX	0.385		0.099	0.012	0.0043
479-45-8	Tetryl	0.320		0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21621.d		
Lims ID:	280-21683-B-80-C MS	Client ID:	
Inject. Date:	02-Nov-2011 01:09:04	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	280-21683-B-80-C MS 280-0002689-145		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	82
Lims Batch ID:	94194	Lims Sample ID:	145
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:54:18	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	336711	79.1			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		475618	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1774250	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	660027	97.6			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	467543	81.5			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.903	541977	81.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1254852	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.035	-0.001	1.008	514664	94.4			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	2897059	89.1			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.439	-0.001	1.089	1792160	74.7			
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.540	-0.001	1.109	511563	82.5			
12 Nitrobenzene										
2	123.0	5.640	5.641	-0.001	1.129	443006	89.9			
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1582687	91.3			
15 2,3-Dinitrotoluene										
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.745	6.715	0.030	0.933	2289350	107.1			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.837	0.060	0.954	3576297	92.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3643849	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	1741958	93.7			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3206883	112.3			
21 3,5-Dinitrotoluene										
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0	8.284	8.284	0.000	1.000	744947	96.1			
23 p-Nitrotoluene										
4	137.0	8.830	8.830	0.000	1.000	635086	91.9			
24 m-Nitrotoluene										
4	137.0	9.499	9.499	0.000	1.000	423301	99.2			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

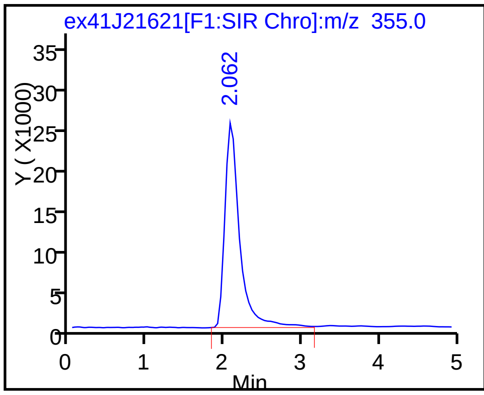
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:54:23 Chrom Revision: 1.2 13-Jul-2011 10:43:06

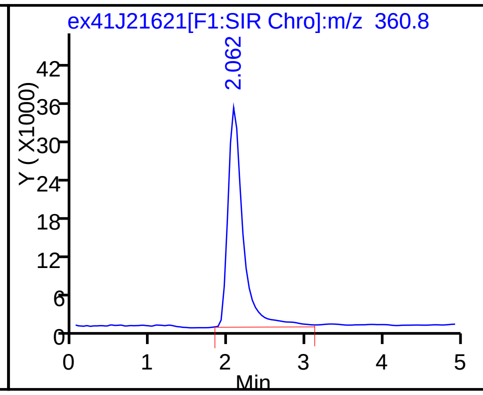
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21621.d

Injection Date:	02-Nov-2011 01:09:04	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	145
Operator ID:		Injection Vol:	40.00 ul

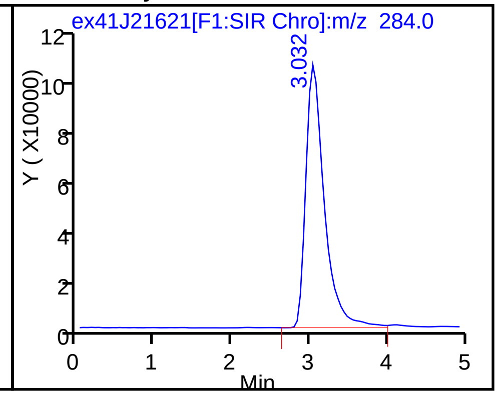
2 HMX



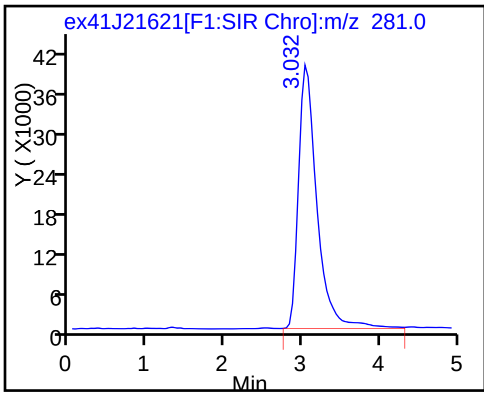
* 1 HMX-13C4



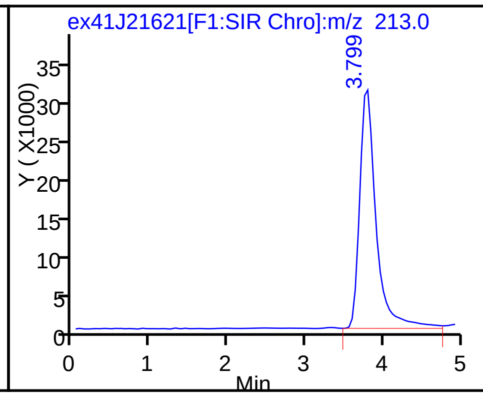
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



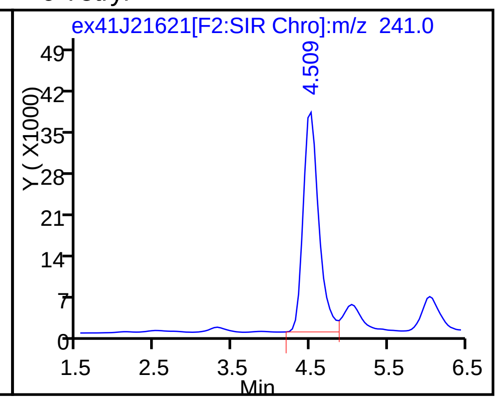
4 RDX



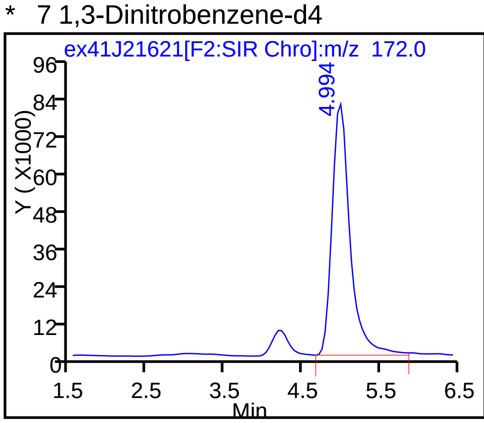
5 1,3,5-Trinitrobenzene



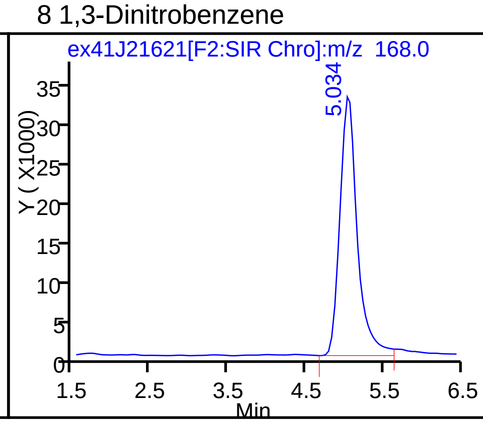
6 Tetryl



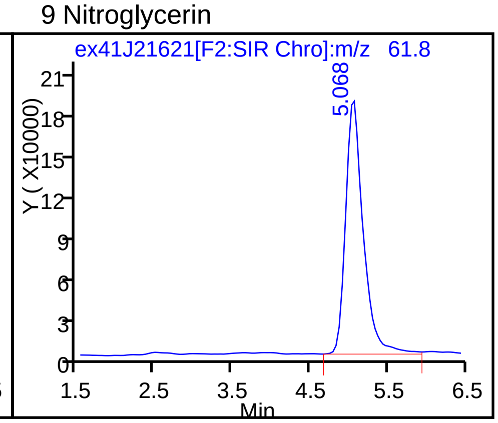
* 7 1,3-Dinitrobenzene-d4



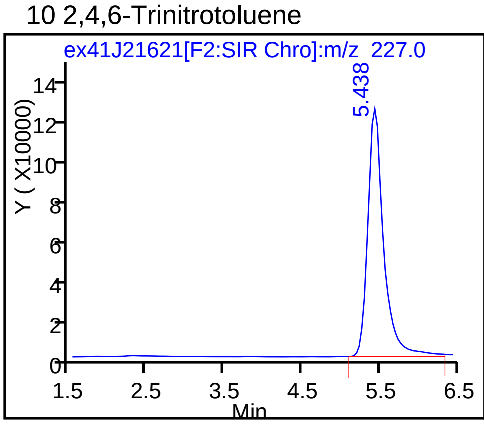
8 1,3-Dinitrobenzene



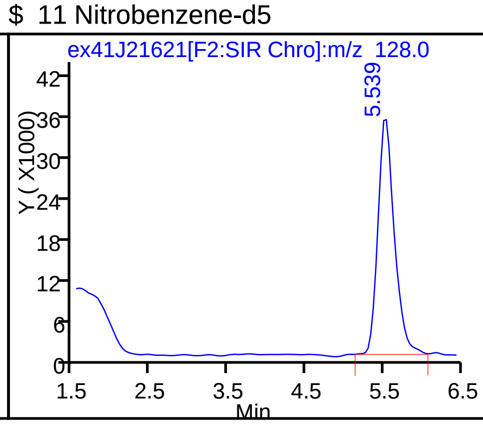
9 Nitroglycerin



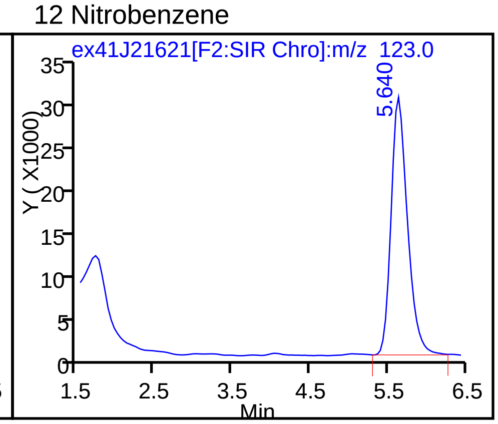
10 2,4,6-Trinitrotoluene



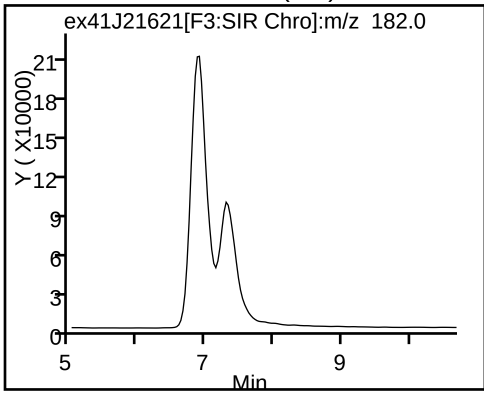
$ 11 Nitrobenzene-d5



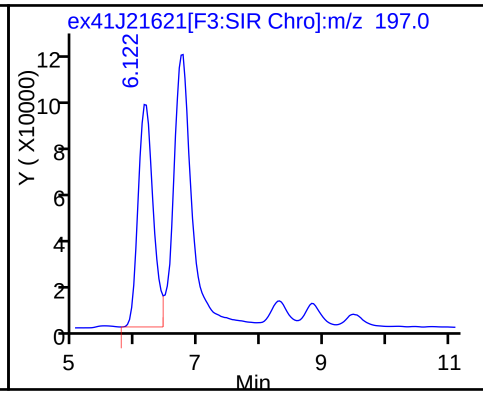
12 Nitrobenzene



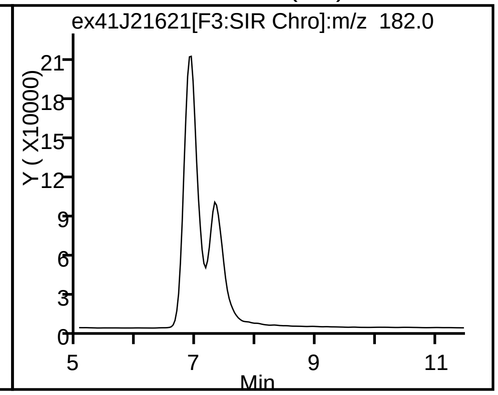
13 3,4-Dinitrotoluene (ND)



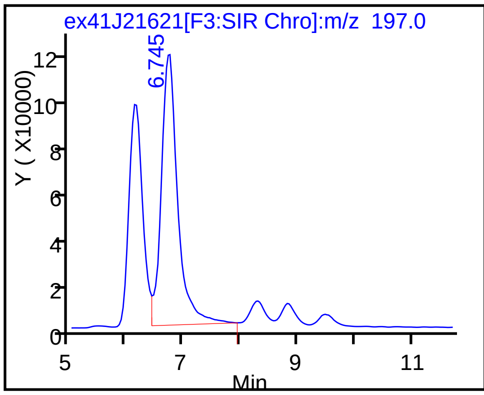
14 4-Amino-2,6-dinitrotoluene



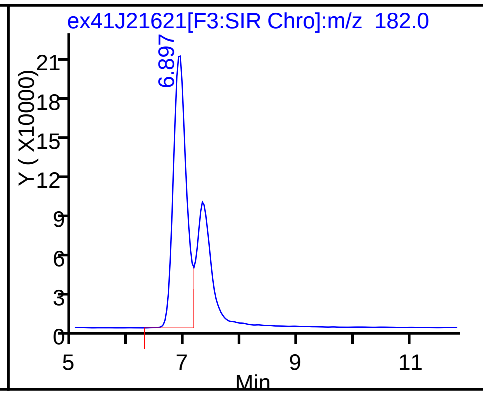
15 2,3-Dinitrotoluene (ND)



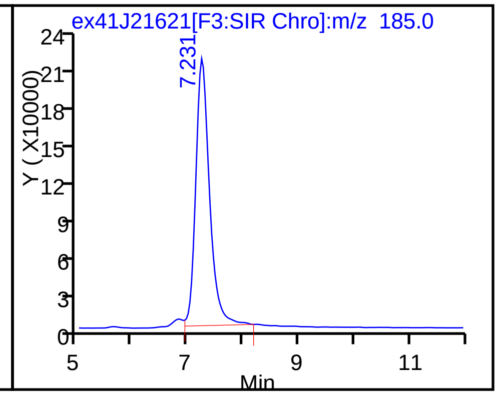
16 2-Amino-4,6-dinitrotoluene



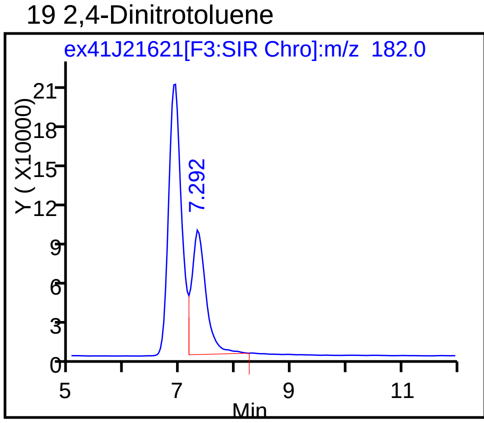
17 2,6-Dinitrotoluene



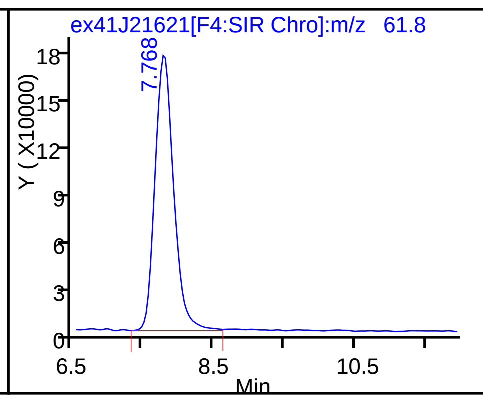
* 18 2,4-dinitrotoluene-d3



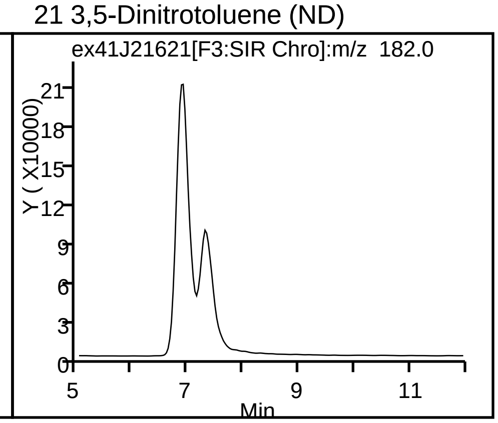
19 2,4-Dinitrotoluene



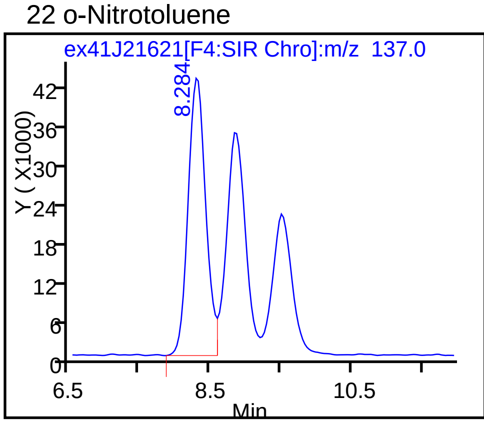
20 PETN



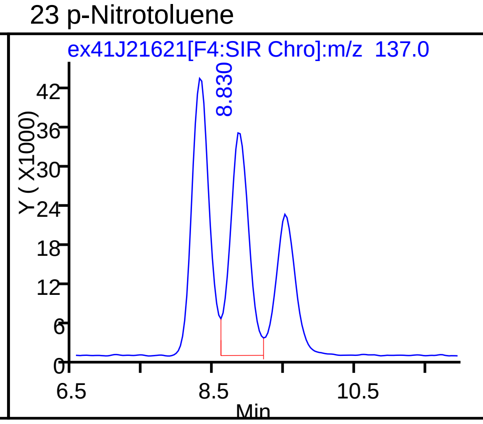
21 3,5-Dinitrotoluene (ND)



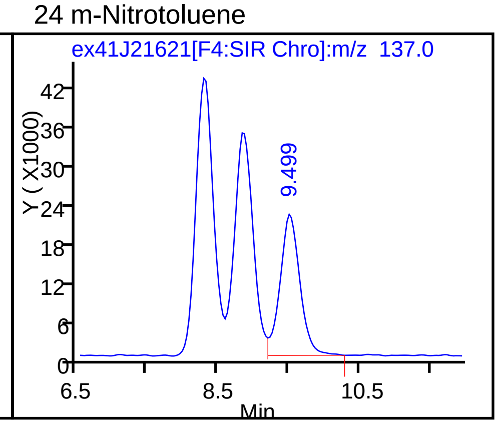
22 o-Nitrotoluene



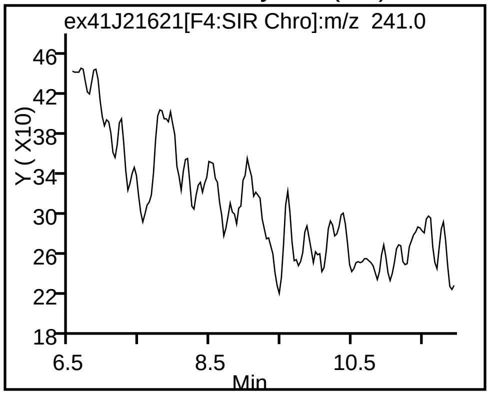
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG27 SB106 MSD   Lab Sample ID: 280-21683-11 MSD

Matrix: Solid   Lab File ID: ex41J21203.d

Analysis Method: 8321B   Date Collected: 10/14/2011 10:09

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:15

Sample wt/vol: 10.21(g)   Date Analyzed: 10/26/2011 08:51

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92964   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.301		0.098	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.364		0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.320		0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.370		0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.334		0.098	0.024	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.452		0.098	0.024	0.012
88-72-2	2-Nitrotoluene	0.363		0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.370		0.098	0.024	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.369		0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.347		0.098	0.024	0.011
2691-41-0	HMX	0.298		0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.337		0.098	0.012	0.011
55-63-0	Nitroglycerin	0.363		0.098	0.012	0.010
78-11-5	PETN	0.421		0.098	0.012	0.0050
121-82-4	RDX	0.345		0.098	0.012	0.0042
479-45-8	Tetryl	0.314		0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21203.d
Lims ID: 280-21683-A-11-E MSD Client ID:
Inject. Date: 26-Oct-2011 08:51:35 Dil. Factor: 1.0000
Sample Type: MSD
Sample ID: 280-21683-A-11-E MSD 280-0002644-196
Misc. Info.: ex41J21
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 56
Lims Batch ID: 92964 Lims Sample ID: 196
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m
Last Update: 26-Oct-2011 09:44:20 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		815887	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	555487	76.1			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	918596	88.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2737029	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.759	0.040	1.000	650000	76.9			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.903	790336	80.2			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1850676	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.035	0.033	1.015	746435	92.8			
9 Nitroglycerin										
2	61.8	5.068	5.035	0.033	1.015	4450488	92.7			
10 2,4,6-Trinitrotoluene										
2	227.0	5.472	5.405	0.067	1.096	2891743	81.7			
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	702253	76.8			
12 Nitrobenzene										
2	123.0	5.674	5.607	0.067	1.136	625401	86.1			
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.122	0.034	0.848	2423793	94.3			
15 2,3-Dinitrotoluene										
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.776	6.715	0.061	0.933	3660258	115.5			
17 2,6-Dinitrotoluene										
3	182.0	6.928	6.867	0.061	0.954	4897398	85.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.201	0.061		5403949	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.322	7.261	0.061	1.008	2603746	94.4			
20 PETN										
4	61.8	7.828	7.737	0.091	1.000	4555591	107.5			
21 3,5-Dinitrotoluene										
3	182.0		7.869							
22 o-Nitrotoluene										
4	137.0	8.345	8.254	0.091	1.000	1065323	92.6			
23 p-Nitrotoluene										
4	137.0	8.891	8.800	0.091	1.000	908108	88.6			
24 m-Nitrotoluene										
4	137.0	9.590	9.468	0.122	1.000	597375	94.4			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

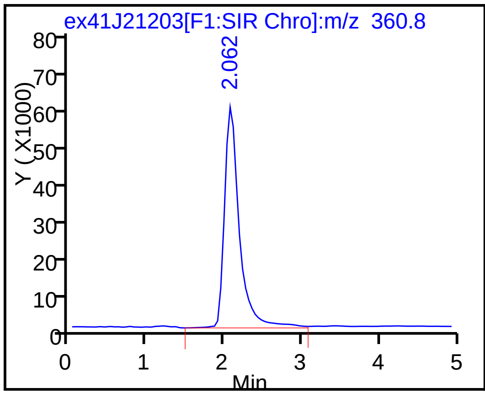
QC Flag Legend

Processing Flags
1 - Missing Peaks

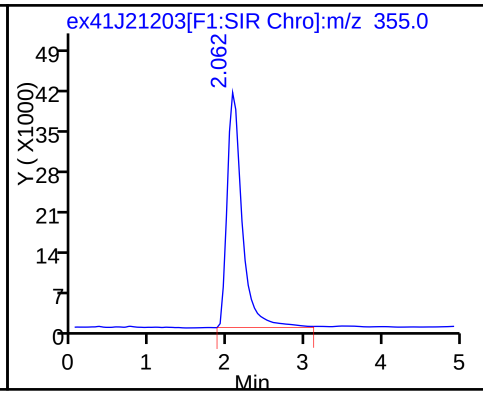
Report Date: 26-Oct-2011 09:44:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21203.d

Injection Date:	26-Oct-2011 08:51:35	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92964	Lims Sample ID:	196
Operator ID:		Injection Vol:	40.00 ul

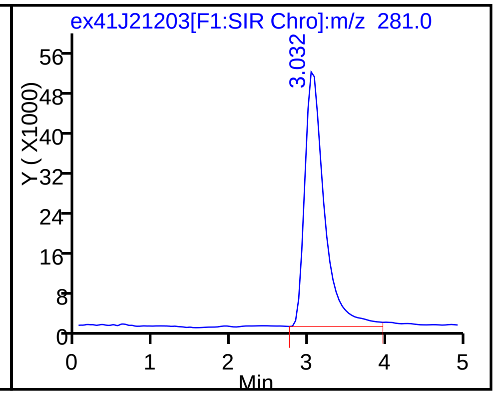
* 1 HMX-13C4



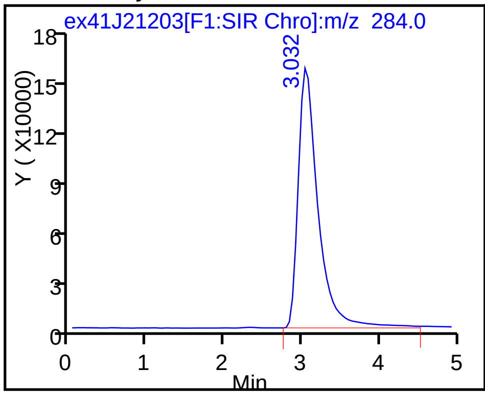
2 HMX



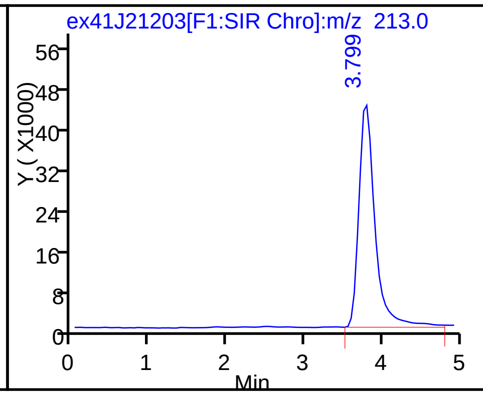
4 RDX



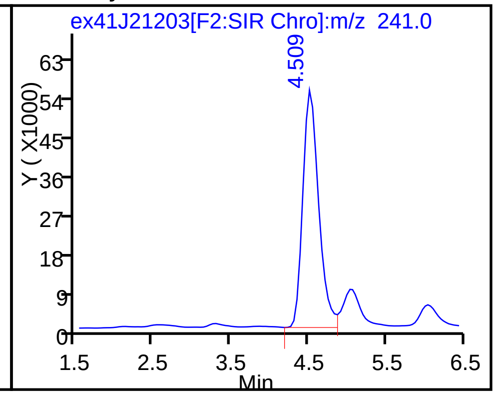
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



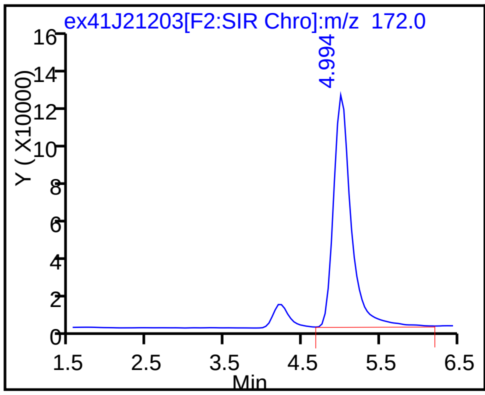
5 1,3,5-Trinitrobenzene



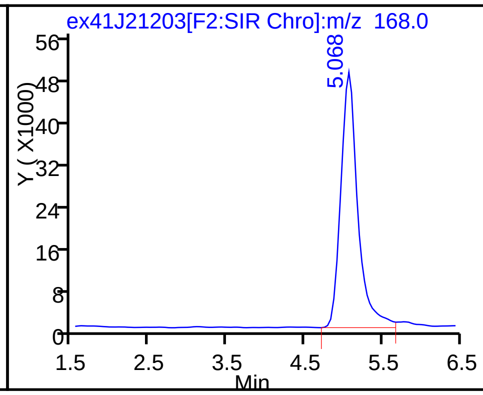
6 Tetryl



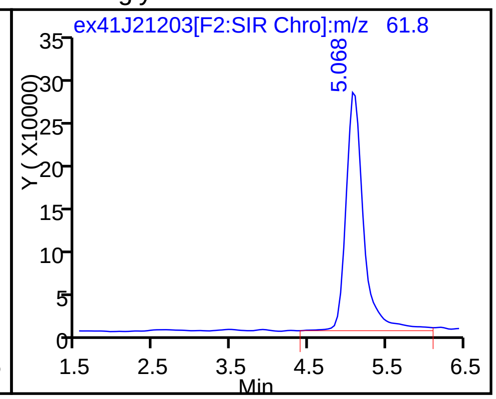
* 7 1,3-Dinitrobenzene-d4



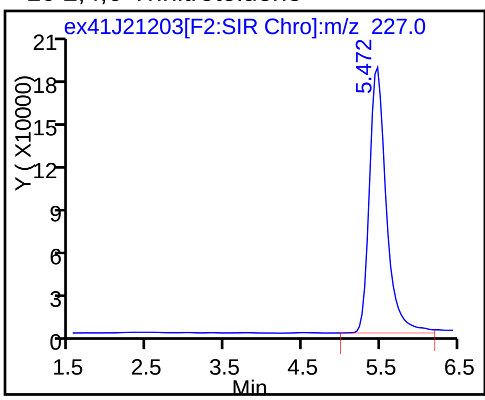
8 1,3-Dinitrobenzene



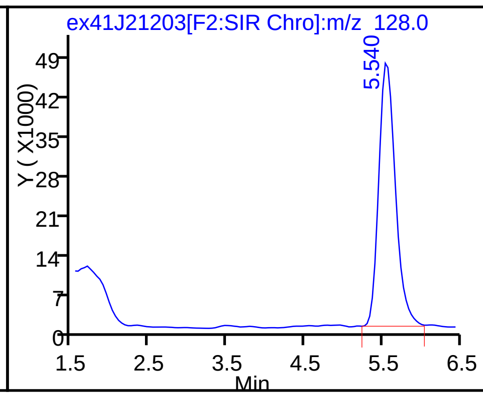
9 Nitroglycerin



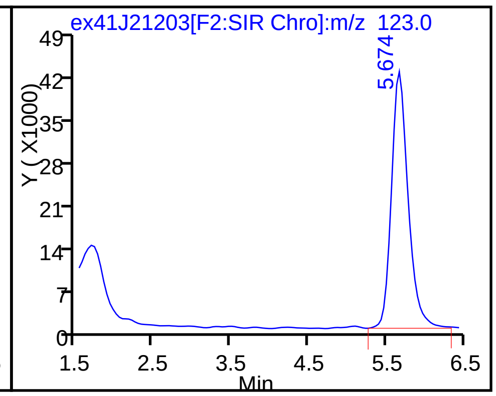
10 2,4,6-Trinitrotoluene



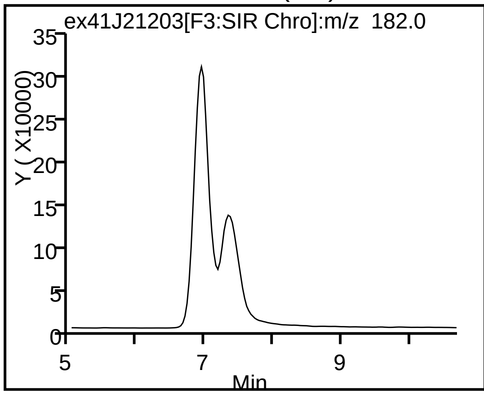
$ 11 Nitrobenzene-d5



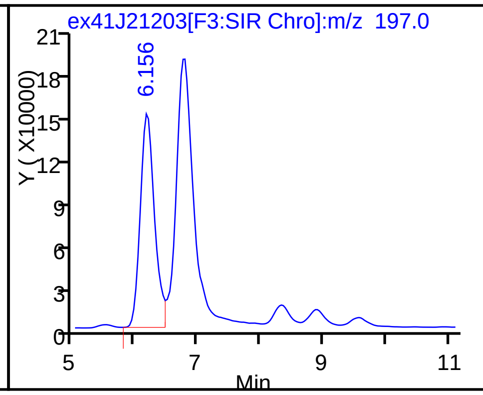
12 Nitrobenzene



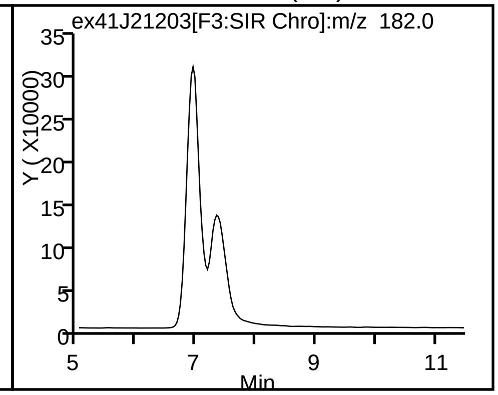
13 3,4-Dinitrotoluene (ND)



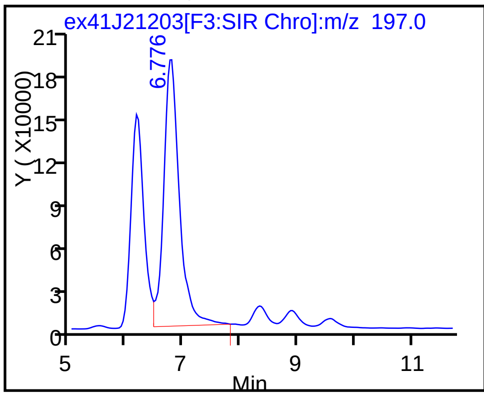
14 4-Amino-2,6-dinitrotoluene



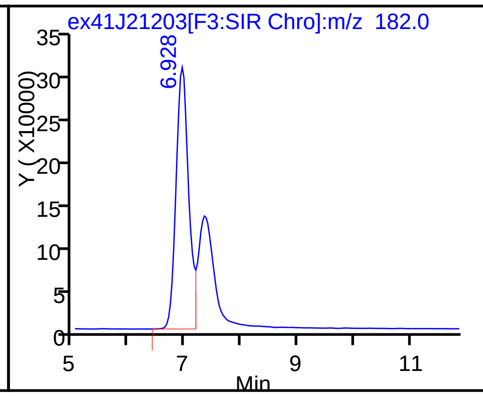
15 2,3-Dinitrotoluene (ND)



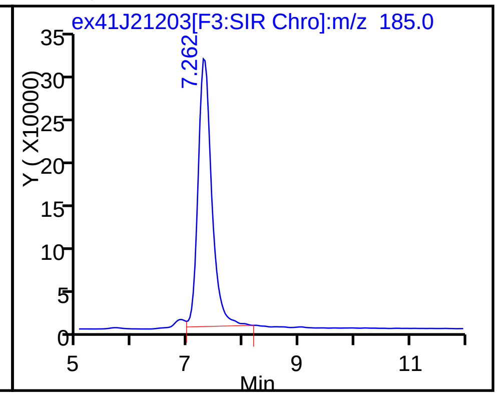
16 2-Amino-4,6-dinitrotoluene



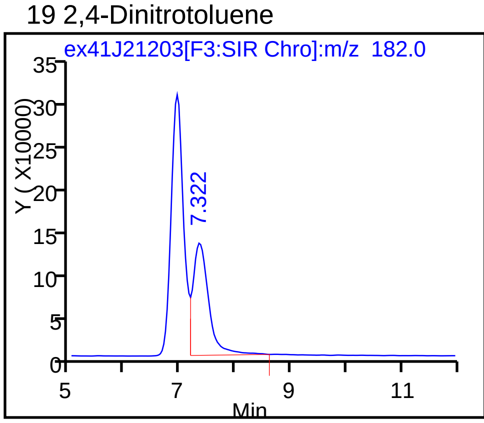
17 2,6-Dinitrotoluene



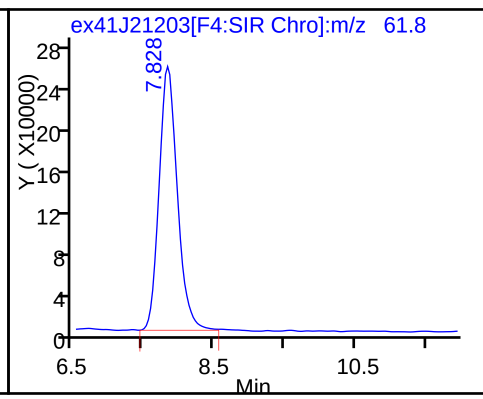
* 18 2,4-dinitrotoluene-d3



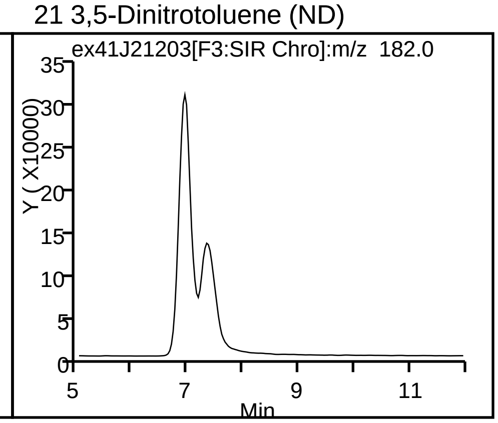
19 2,4-Dinitrotoluene



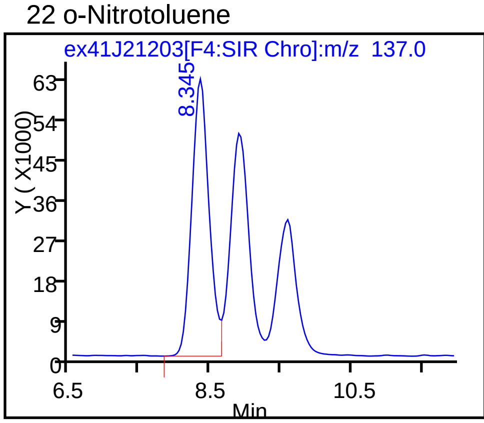
20 PETN



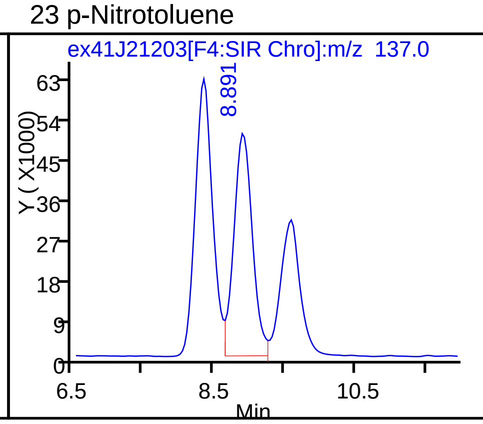
21 3,5-Dinitrotoluene (ND)



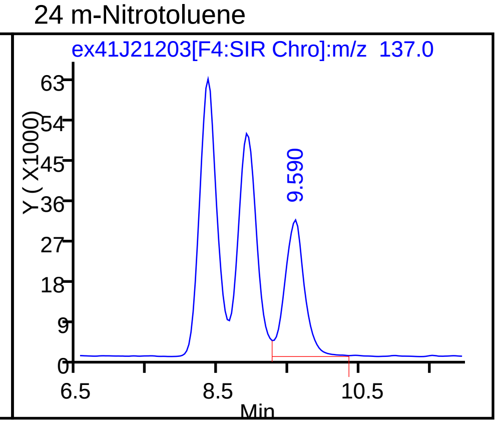
22 o-Nitrotoluene



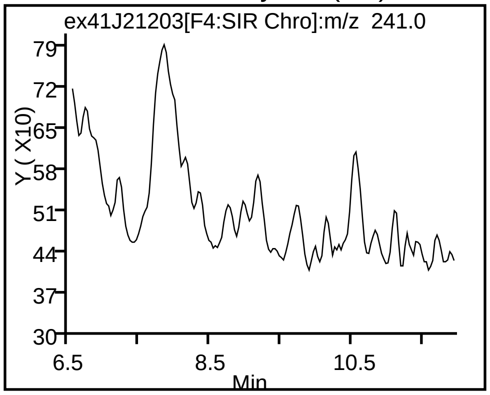
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG21 SB092 MSD   Lab Sample ID: 280-21683-18 MSD

Matrix: Solid   Lab File ID: ex41J21163.d

Analysis Method: 8321B   Date Collected: 10/14/2011 09:05

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:17

Sample wt/vol: 10.32(g)   Date Analyzed: 10/25/2011 15:50

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92961   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.278		0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.353		0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.297		0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.359		0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.348		0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.454		0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.380		0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.353		0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.378		0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.342		0.097	0.024	0.011
2691-41-0	HMX	0.311		0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.335		0.097	0.012	0.010
55-63-0	Nitroglycerin	0.337		0.097	0.012	0.010
78-11-5	PETN	0.445		0.097	0.012	0.0050
121-82-4	RDX	0.333		0.097	0.012	0.0042
479-45-8	Tetryl	0.292		0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21163.d		
Lims ID:	280-21683-A-18-E MSD	Client ID:	
Inject. Date:	25-Oct-2011 15:50:02	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	280-21683-A-18-E MSD 280-0002644-158		
Misc. Info.:	ex41J21		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	30
Lims Batch ID:	92961	Lims Sample ID:	158
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	26-Oct-2011 06:27:03	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		845969	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	607706	80.2			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1055058	85.8			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3224393	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	624941	71.7			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	766496	75.4			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1914369	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	757444	91.1			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	4312934	86.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	2806623	76.7			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	707129	74.7			
12 Nitrobenzene										
2	123.0	5.641	5.607	0.034	1.139	650073	86.5			
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.122	-0.034	0.845	2325981	97.5			
15 2,3-Dinitrotoluene										
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.715	-0.030	0.928	3444163	117.1			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.867	-0.030	0.949	4792699	89.8			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5014572	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.261	0.001	1.008	2366437	92.5			
20 PETN										
4	61.8	7.707	7.737	-0.030	1.000	4511146	114.9			
21 3,5-Dinitrotoluene										
3	182.0		7.869							
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	1047347	98.1			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	838020	88.2			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	535450	91.1			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

QC Flag Legend

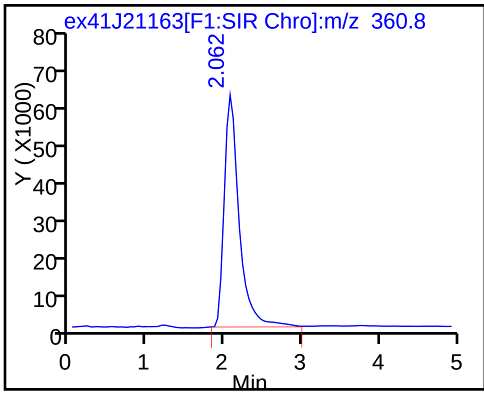
Processing Flags
1 - Missing Peaks

Report Date: 26-Oct-2011 06:24:12 Chrom Revision: 1.2 13-Jul-2011 10:43:06

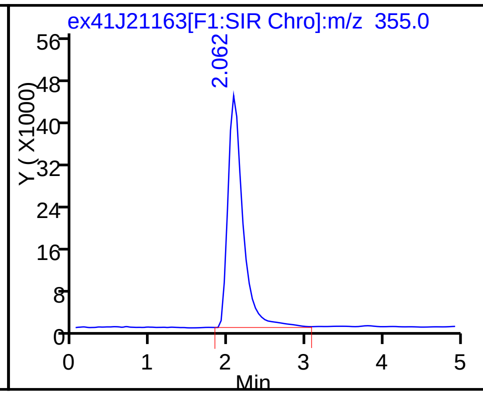
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21163.d

Injection Date:	25-Oct-2011 15:50:02	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92961	Lims Sample ID:	158
Operator ID:		Injection Vol:	40.00 ul

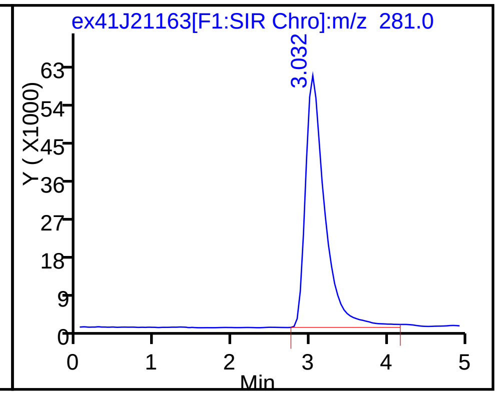
* 1 HMX-13C4



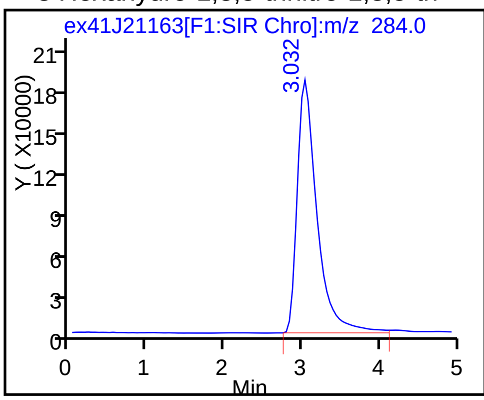
2 HMX



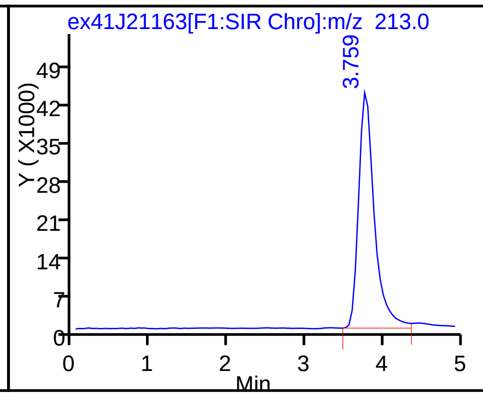
4 RDX



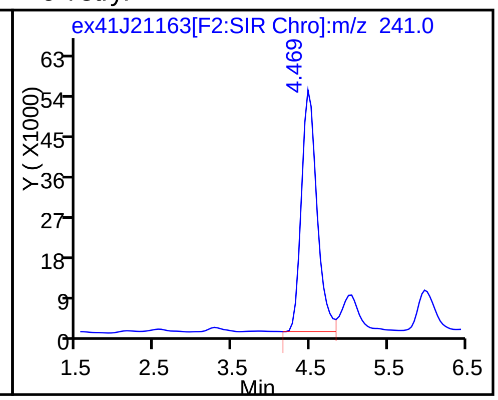
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



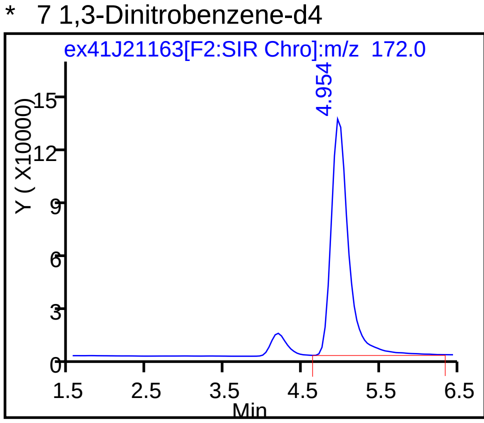
5 1,3,5-Trinitrobenzene



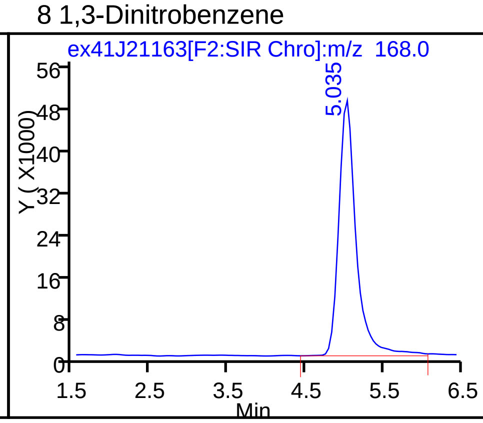
6 Tetryl



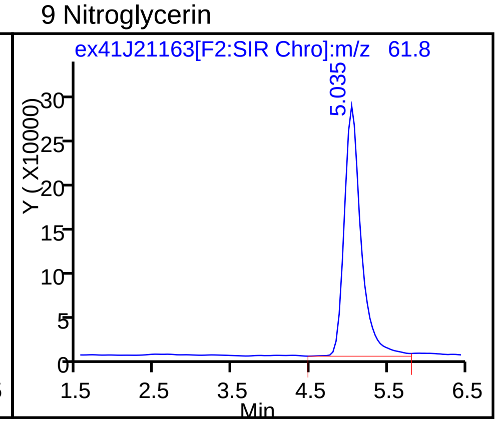
* 7 1,3-Dinitrobenzene-d4



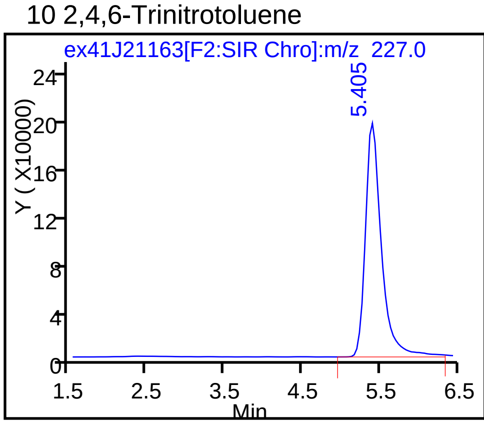
8 1,3-Dinitrobenzene



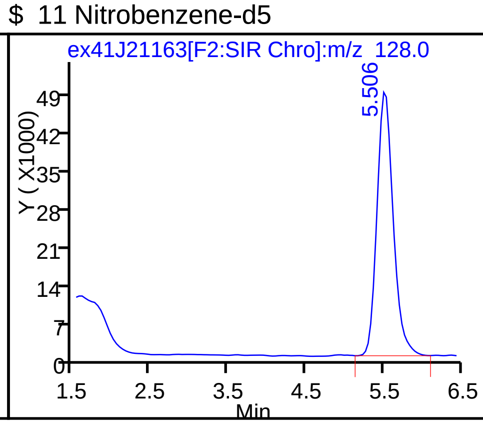
9 Nitroglycerin



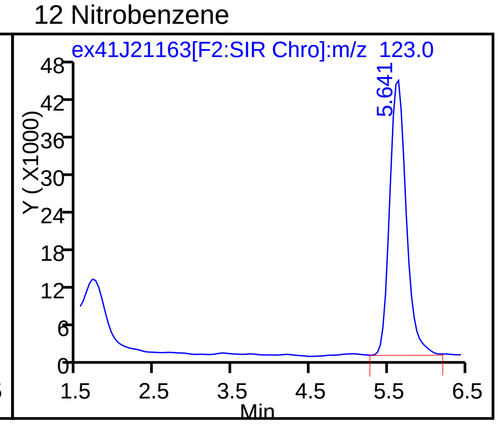
10 2,4,6-Trinitrotoluene



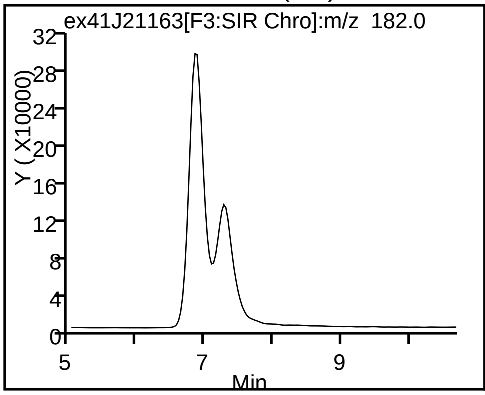
$ 11 Nitrobenzene-d5



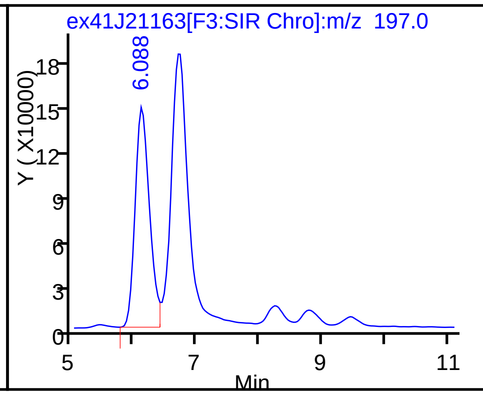
12 Nitrobenzene



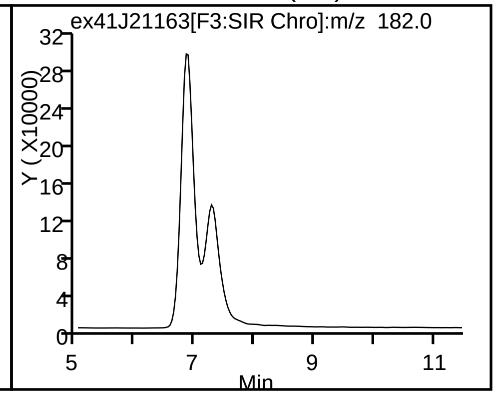
13 3,4-Dinitrotoluene (ND)



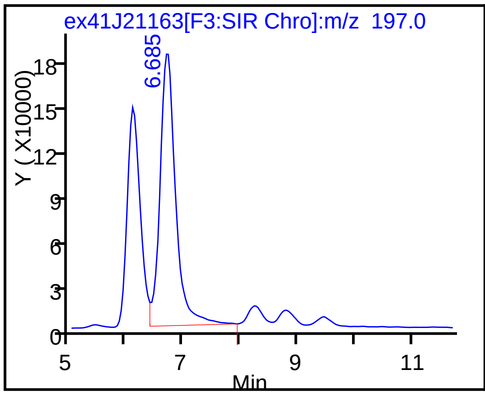
14 4-Amino-2,6-dinitrotoluene



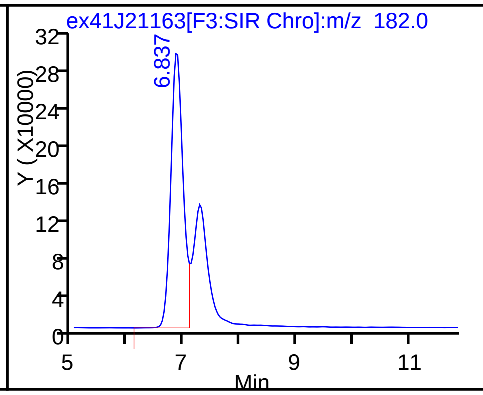
15 2,3-Dinitrotoluene (ND)



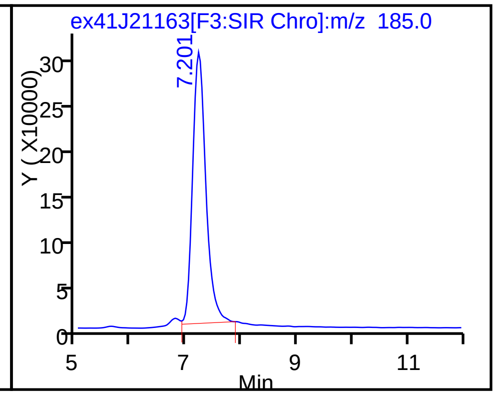
16 2-Amino-4,6-dinitrotoluene



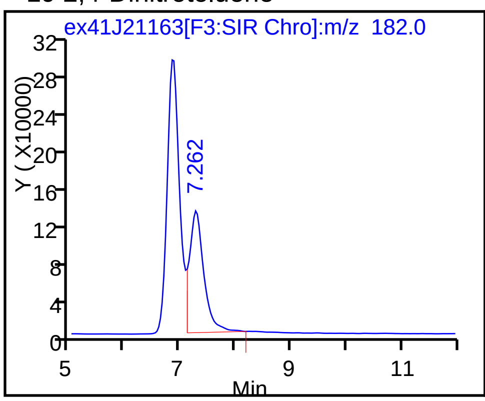
17 2,6-Dinitrotoluene



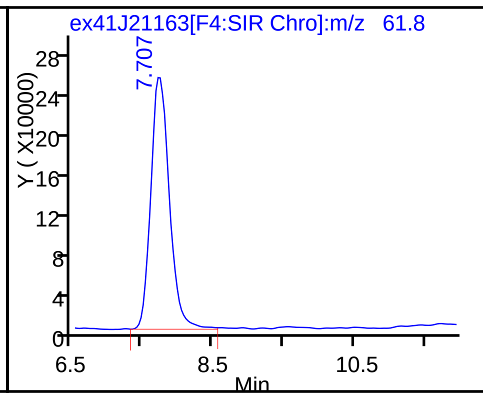
* 18 2,4-dinitrotoluene-d3



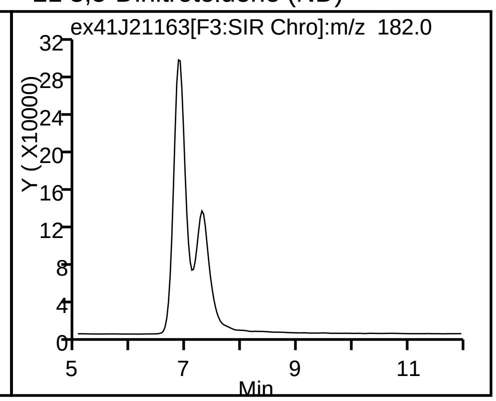
19 2,4-Dinitrotoluene



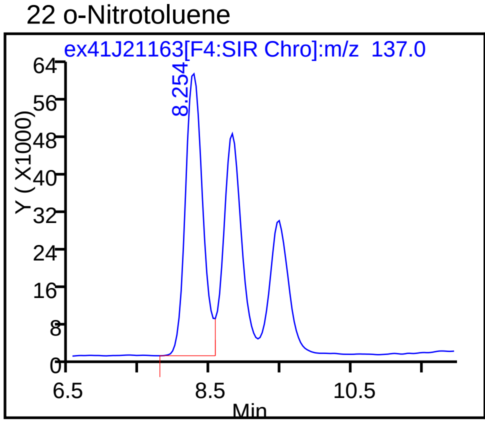
20 PETN



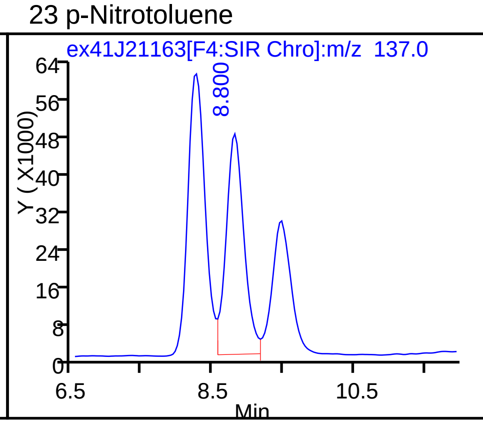
21 3,5-Dinitrotoluene (ND)



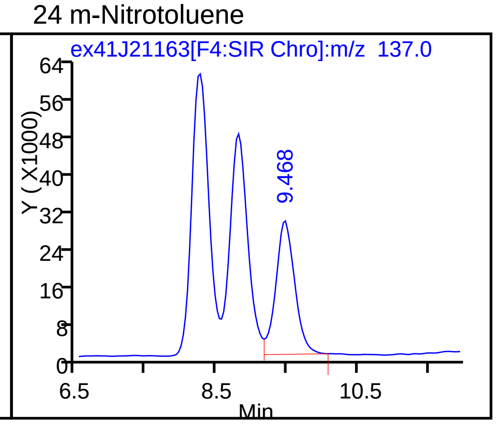
22 o-Nitrotoluene



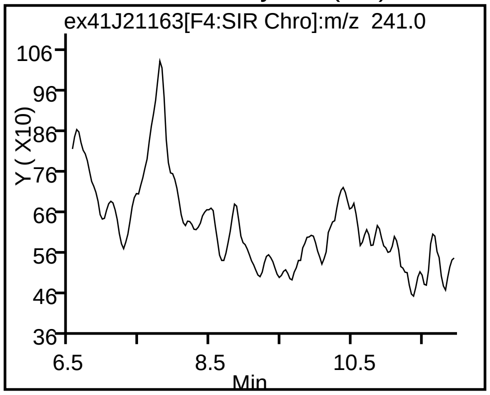
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG03 SB057 MSD   Lab Sample ID: 280-21683-47 MSD

Matrix: Solid   Lab File ID: ex41J21580.d

Analysis Method: 8321B   Date Collected: 10/15/2011 13:53

Extraction Method: 8330B   Date Extracted: 10/20/2011 19:23

Sample wt/vol: 10.13(g)   Date Analyzed: 11/01/2011 15:50

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94192   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.329		0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.370		0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.291		0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.347		0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.329		0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.415		0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.361		0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.375		0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.361		0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.338		0.099	0.025	0.011
2691-41-0	HMX	0.327		0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.352		0.099	0.012	0.011
55-63-0	Nitroglycerin	0.327		0.099	0.012	0.010
78-11-5	PETN	0.428		0.099	0.012	0.0051
121-82-4	RDX	0.374		0.099	0.012	0.0043
479-45-8	Tetryl	0.292		0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21580.d		
Lims ID:	280-21683-B-47-D MSD	Client ID:	
Inject. Date:	01-Nov-2011 15:50:04	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	280-21683-B-47-D MSD 280-0002689-104		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	45
Lims Batch ID:	94192	Lims Sample ID:	104
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:41:28	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	364531	82.7			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		492111	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1803077	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	650545	94.7			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	497967	83.2			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.903	514356	74.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1308032	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.035	-0.001	1.008	532938	93.8			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	2809187	82.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.439	-0.001	1.089	1841634	73.7			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	522596	80.9			
12 Nitrobenzene										
2	123.0	5.640	5.607	0.033	1.129	457902	89.1			
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.122	-0.034	0.842	1732662	91.4			
15 2,3-Dinitrotoluene										
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.929	2456873	105.1			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.950	3532802	83.3			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		3985110	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	1786246	87.8			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3387221	108.4			
21 3,5-Dinitrotoluene										
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0	8.284	8.254	0.030	1.000	774317	91.3			
23 p-Nitrotoluene										
4	137.0	8.830	8.831	-0.001	1.000	645495	85.5			
24 m-Nitrotoluene										
4	137.0	9.499	9.468	0.031	1.000	443539	95.0			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

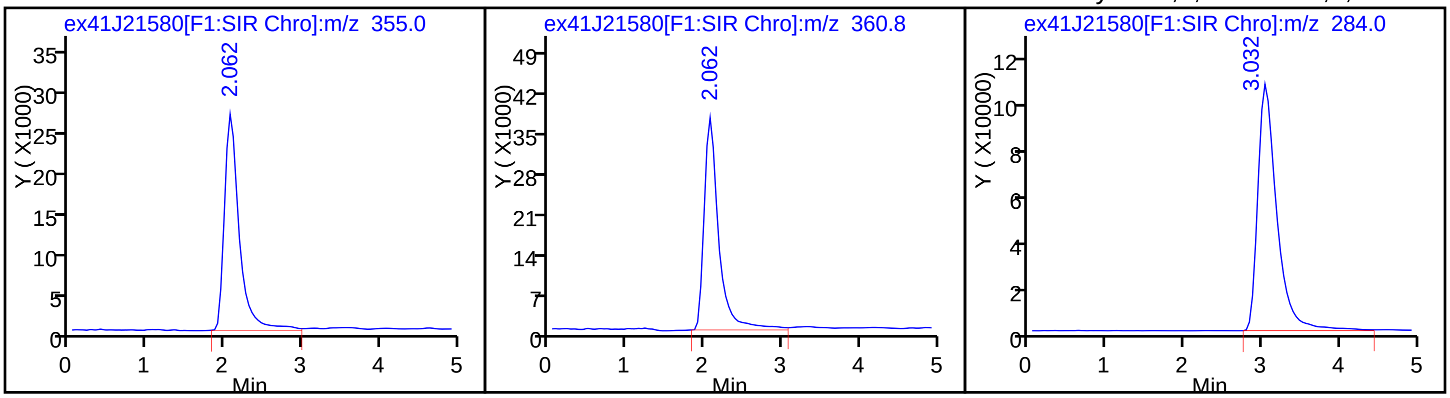
QC Flag Legend

Processing Flags
1 - Missing Peaks

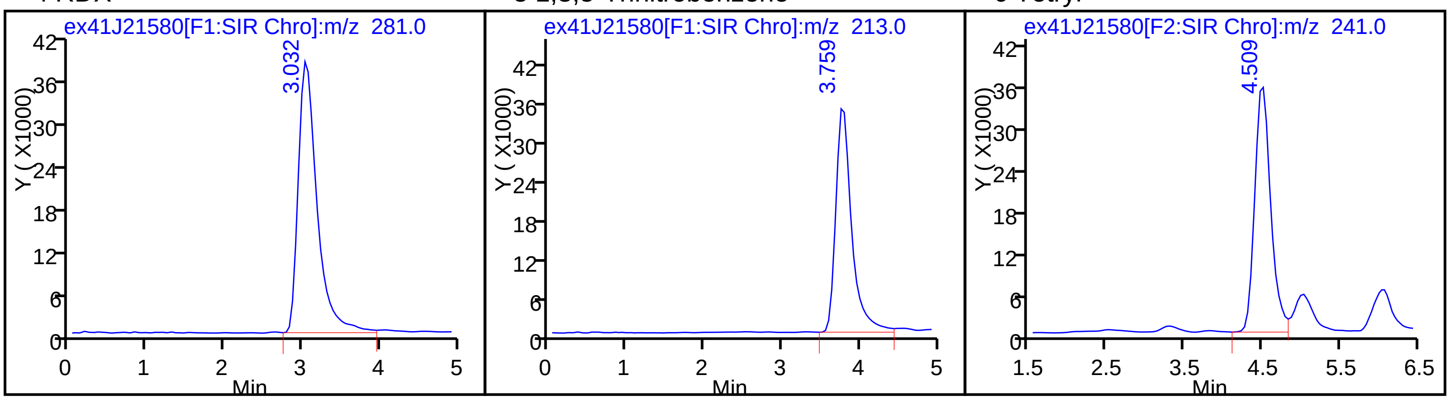
Report Date: 02-Nov-2011 06:41:31 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21580.d

Injection Date:	01-Nov-2011 15:50:04	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94192	Lims Sample ID:	104
Operator ID:		Injection Vol:	40.00 ul

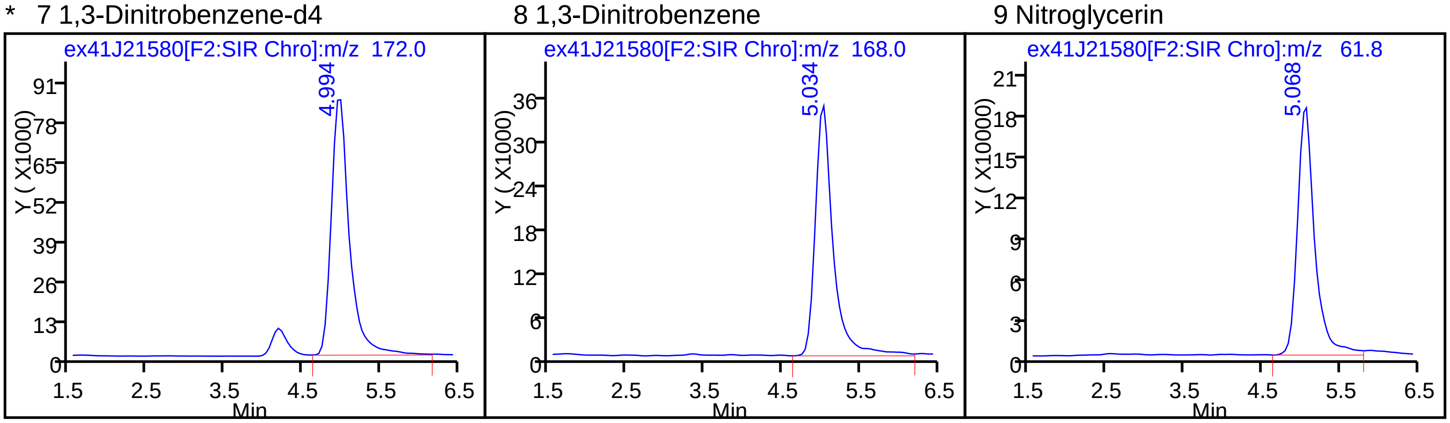
2 HMX | * 1 HMX-13C4 | * 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



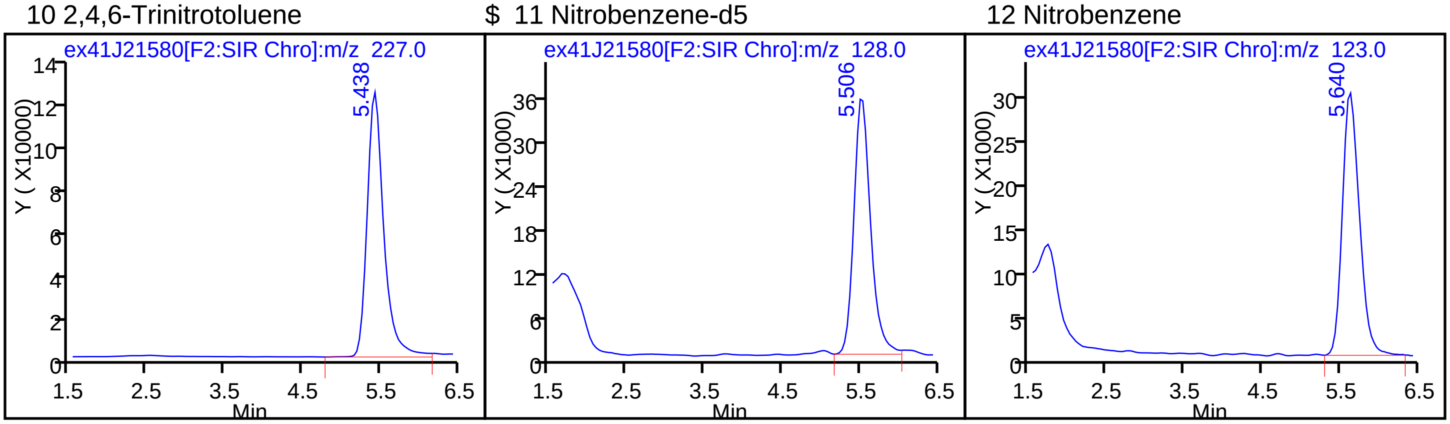
4 RDX | 5 1,3,5-Trinitrobenzene | 6 Tetryl



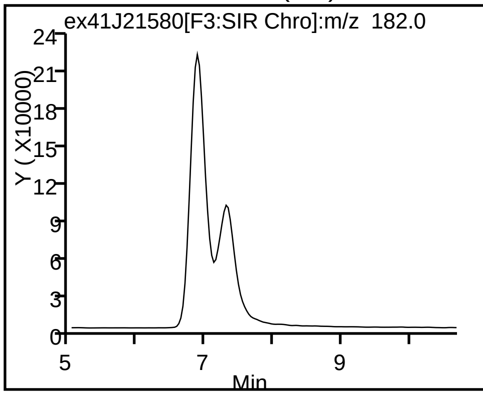
* 7 1,3-Dinitrobenzene-d4 | 8 1,3-Dinitrobenzene | 9 Nitroglycerin



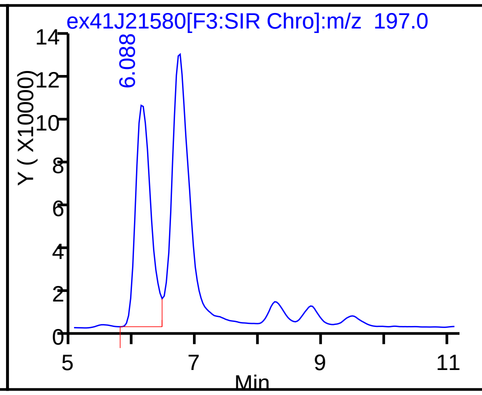
10 2,4,6-Trinitrotoluene | $ 11 Nitrobenzene-d5 | 12 Nitrobenzene



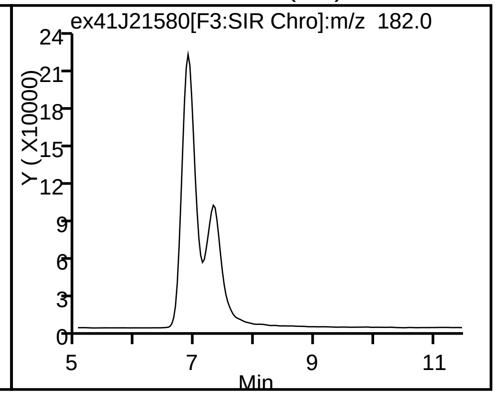
13 3,4-Dinitrotoluene (ND)



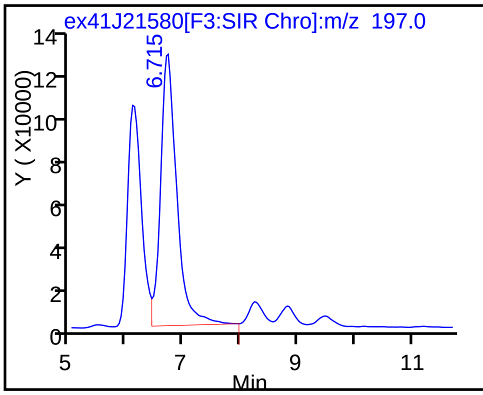
14 4-Amino-2,6-dinitrotoluene



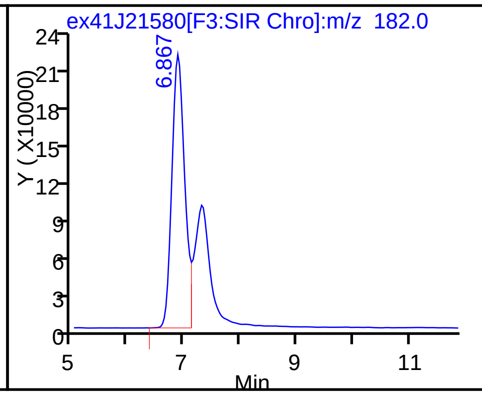
15 2,3-Dinitrotoluene (ND)



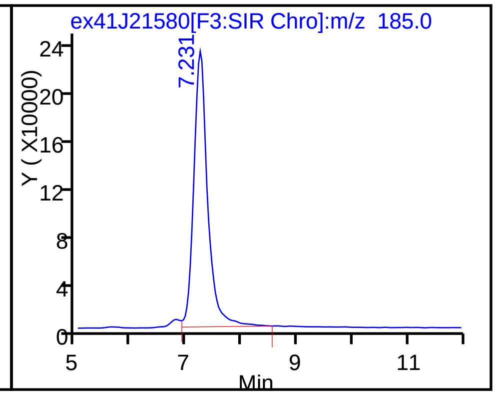
16 2-Amino-4,6-dinitrotoluene



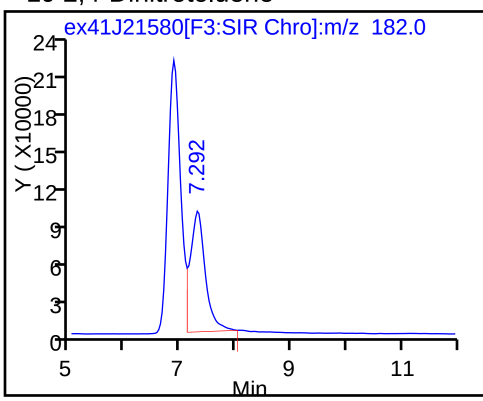
17 2,6-Dinitrotoluene



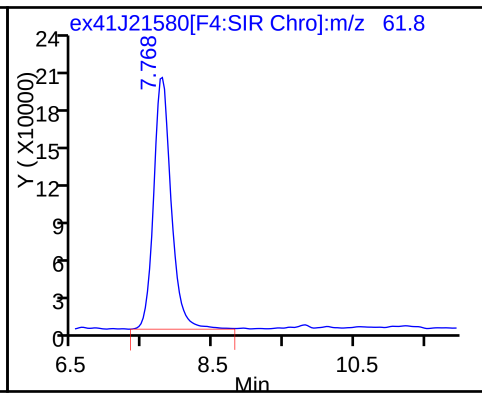
* 18 2,4-dinitrotoluene-d3



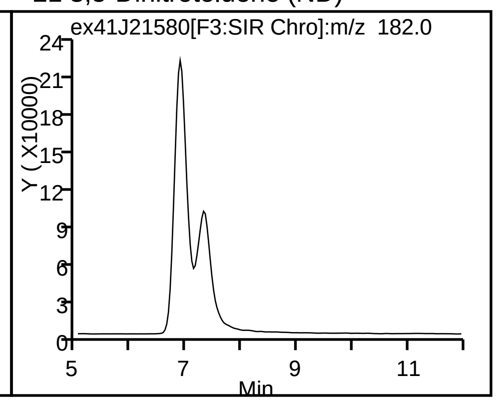
19 2,4-Dinitrotoluene



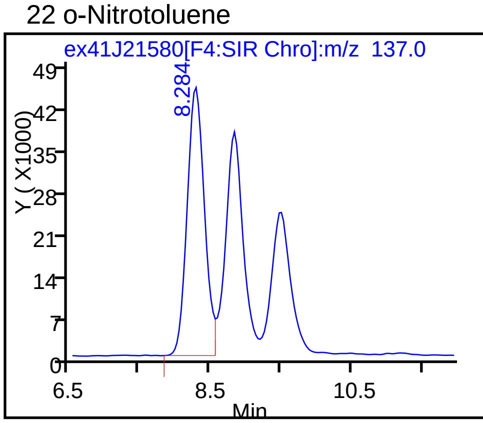
20 PETN



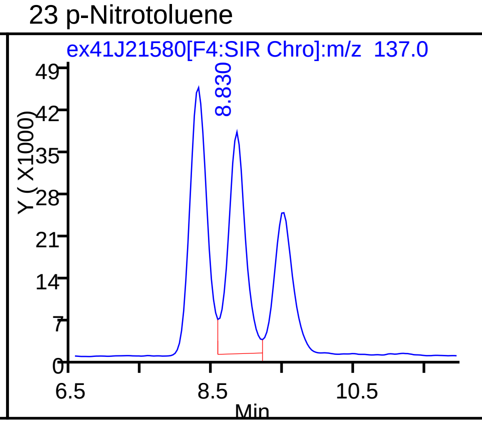
21 3,5-Dinitrotoluene (ND)



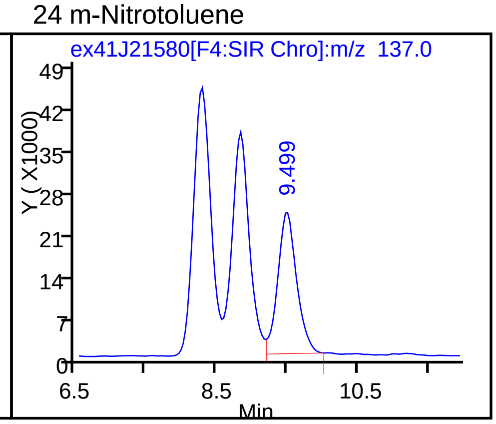
22 o-Nitrotoluene



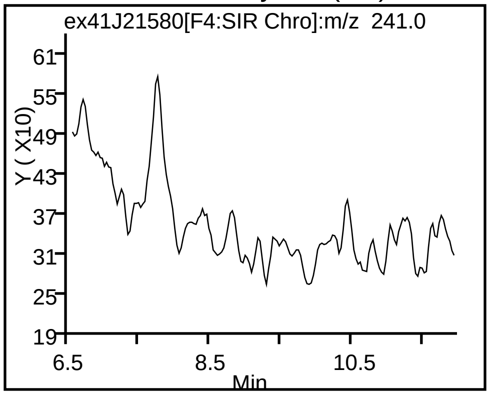
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Client Sample ID: MG12 SB074 MSD   Lab Sample ID: 280-21683-54 MSD

Matrix: Solid   Lab File ID: ex41J21592.d

Analysis Method: 8321B   Date Collected: 10/15/2011 14:43

Extraction Method: 8330B   Date Extracted: 10/19/2011 19:21

Sample wt/vol: 10.16(g)   Date Analyzed: 11/01/2011 18:33

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94193   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.307		0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.349		0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.250		0.098	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.390		0.098	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.368		0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.448		0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.375		0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.364		0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.415		0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.348		0.098	0.025	0.011
2691-41-0	HMX	0.334		0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.353		0.098	0.012	0.011
55-63-0	Nitroglycerin	0.332		0.098	0.012	0.010
78-11-5	PETN	0.434		0.098	0.012	0.0051
121-82-4	RDX	0.371		0.098	0.012	0.0043
479-45-8	Tetryl	0.257		0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21592.d		
Lims ID:	280-21683-A-54-E MSD	Client ID:	
Inject. Date:	01-Nov-2011 18:33:43	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	280-21683-A-54-E MSD 280-0002689-116		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	56
Lims Batch ID:	94193	Lims Sample ID:	116
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 06:47:47	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	379870	84.8			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		500090	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1806898	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	649384	94.3			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	453318	78.0			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.895	439021	65.2			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1272016	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.008	489622	88.6			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.008	2782328	84.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.439	0.000	1.089	1539489	63.4			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	495674	78.9			
12 Nitrobenzene										
2	123.0	5.641	5.641	0.000	1.129	448119	89.7			
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1842469	105.4			
15 2,3-Dinitrotoluene										
3	182.0		6.492							

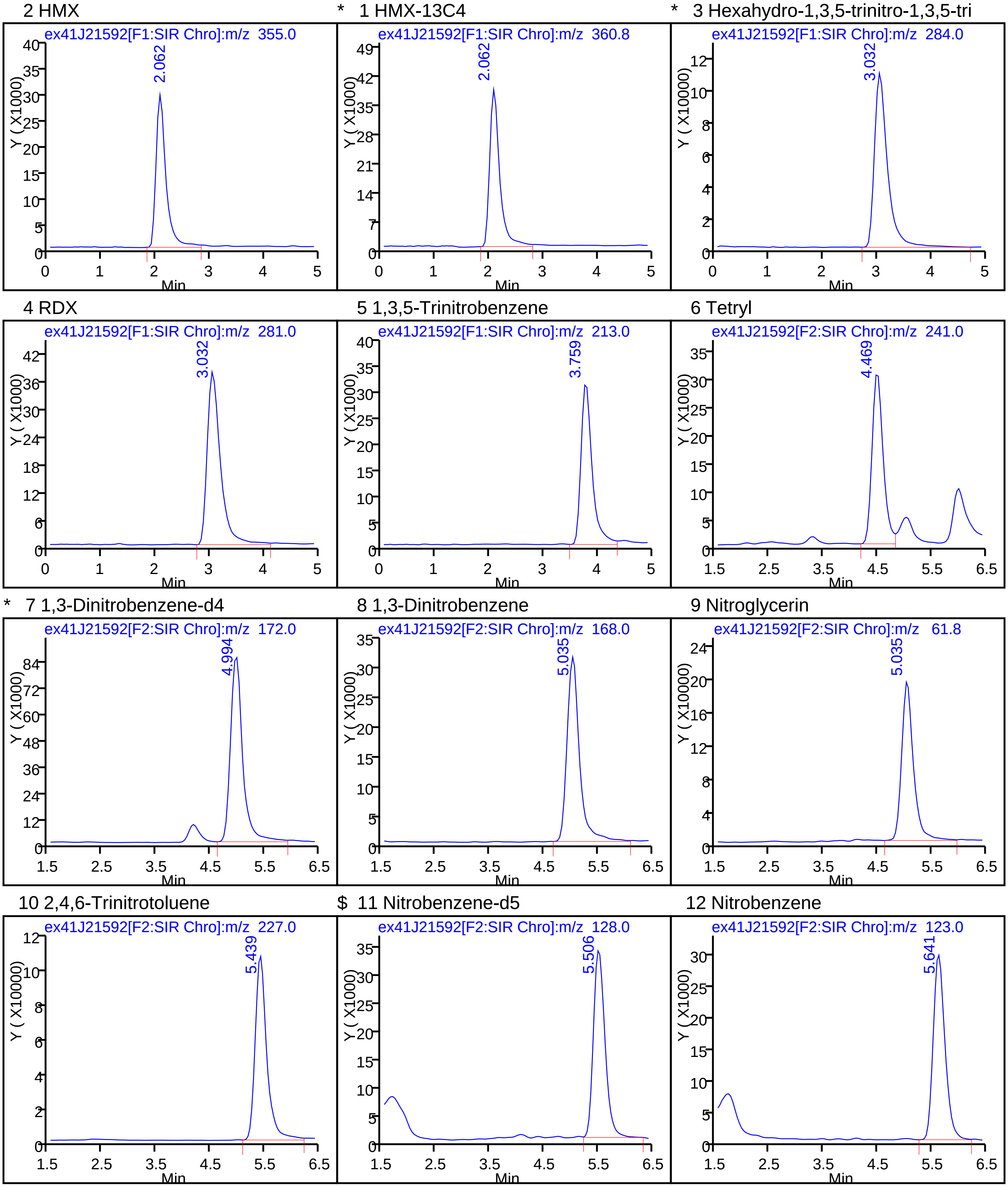
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.924	2451258	113.7			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.950	3651336	93.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3673940	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.262	0.030	1.008	1859188	99.1			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3174672	110.2			
21 3,5-Dinitrotoluene										
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	745503	95.3			
23 p-Nitrotoluene										
4	137.0	8.830	8.830	0.000	1.000	616427	88.5			
24 m-Nitrotoluene										
4	137.0	9.499	9.499	0.000	1.000	398303	92.5			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

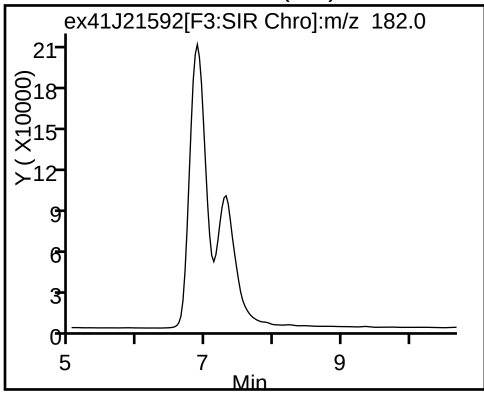
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:47:51 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21592.d

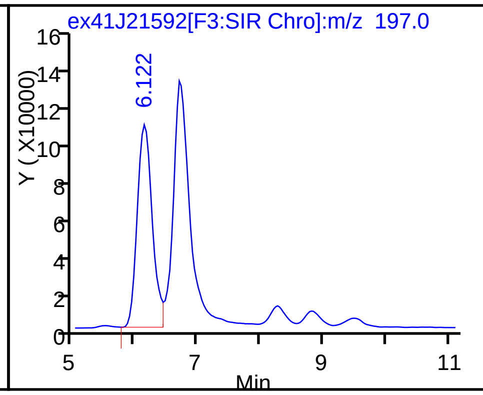
Injection Date:	01-Nov-2011 18:33:43	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94193	Lims Sample ID:	116
Operator ID:		Injection Vol:	40.00 ul



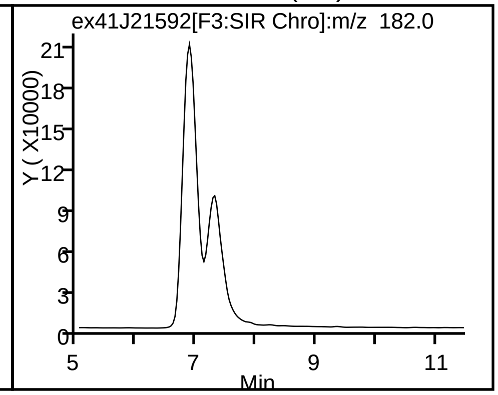
13 3,4-Dinitrotoluene (ND)



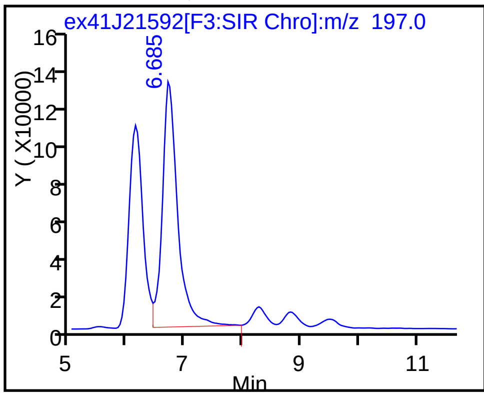
14 4-Amino-2,6-dinitrotoluene



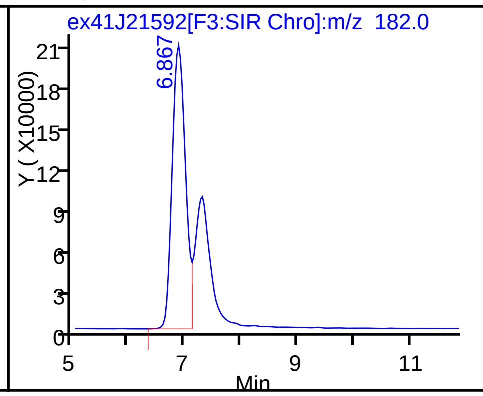
15 2,3-Dinitrotoluene (ND)



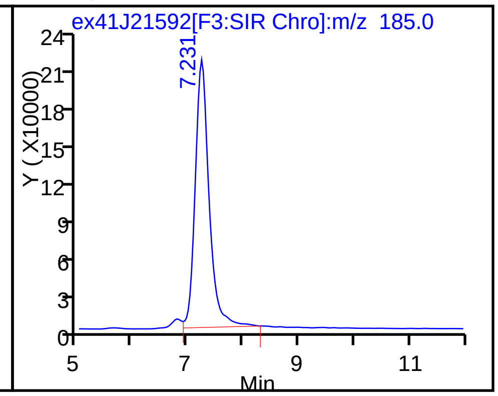
16 2-Amino-4,6-dinitrotoluene



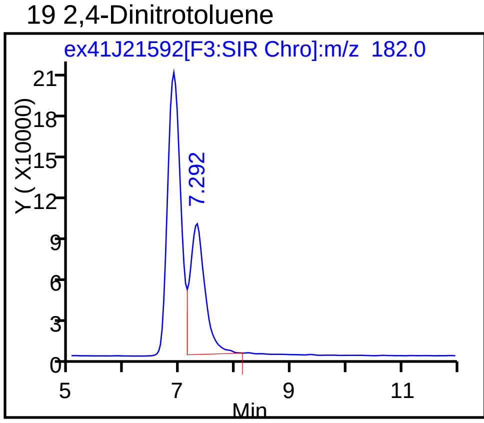
17 2,6-Dinitrotoluene



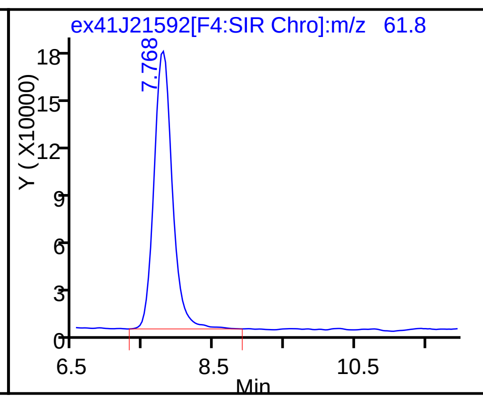
* 18 2,4-dinitrotoluene-d3



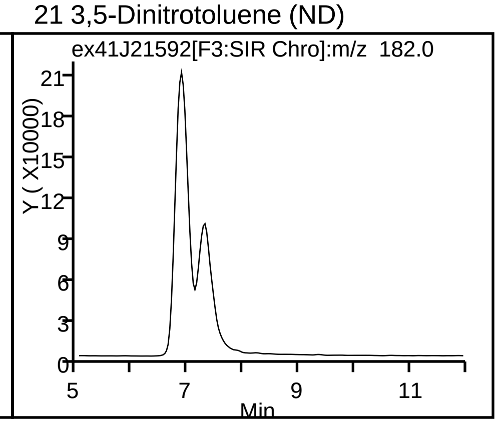
19 2,4-Dinitrotoluene



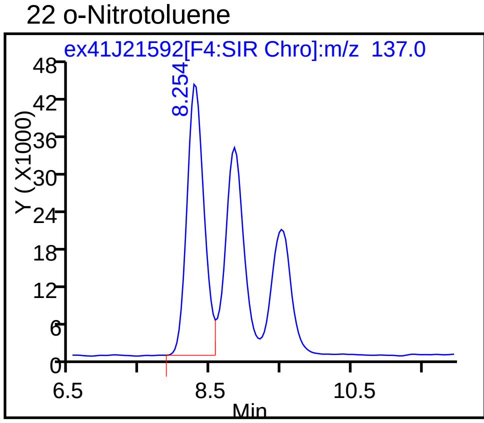
20 PETN



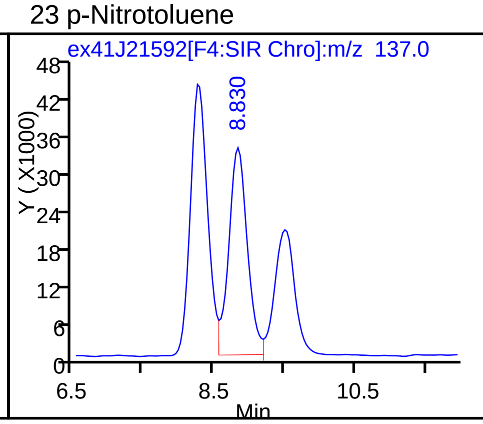
21 3,5-Dinitrotoluene (ND)



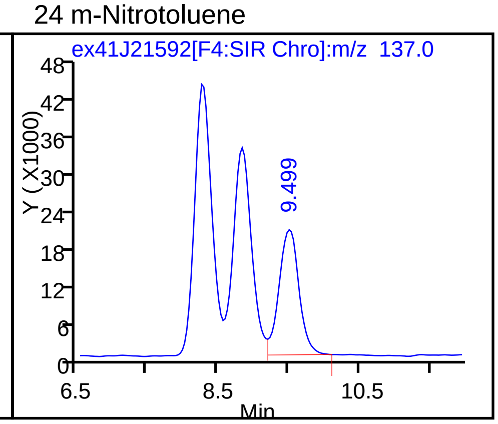
22 o-Nitrotoluene



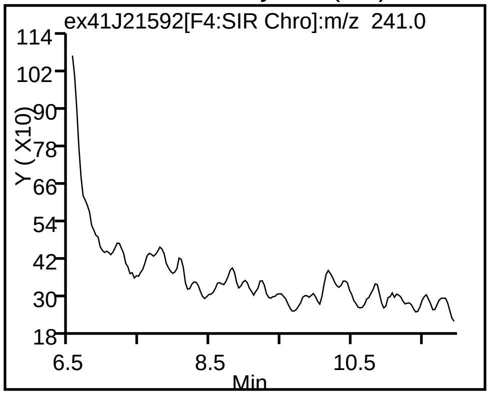
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Client Sample ID: CP09 SB013 MSD | Lab Sample ID: 280-21683-80 MSD

Matrix: Solid | Lab File ID: ex41J21622.d

Analysis Method: 8321B | Date Collected: 10/16/2011 11:42

Extraction Method: 8330B | Date Extracted: 10/19/2011 20:50

Sample wt/vol: 10.08(g) | Date Analyzed: 11/02/2011 01:22

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94194 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.342		0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.384		0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.299		0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.379		0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.346		0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.451		0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.384		0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.409		0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.383		0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.394		0.099	0.025	0.011
2691-41-0	HMX	0.336		0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.385		0.099	0.012	0.011
55-63-0	Nitroglycerin	0.355		0.099	0.012	0.010
78-11-5	PETN	0.434		0.099	0.012	0.0051
121-82-4	RDX	0.363		0.099	0.012	0.0043
479-45-8	Tetryl	0.308		0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	88		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21622.d
Lims ID: 280-21683-B-80-D MSD Client ID:
Inject. Date: 02-Nov-2011 01:22:37 Dil. Factor: 1.0000
Sample Type: MSD
Sample ID: 280-21683-B-80-D MSD 280-0002689-146
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 83
Lims Batch ID: 94194 Lims Sample ID: 146
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m
Last Update: 02-Nov-2011 06:54:18 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	302834	84.7			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		399116	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1440943	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	502640	91.5			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	460385	86.3			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.903	480659	77.6			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1164373	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.035	-0.001	1.008	489593	96.8			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	2701666	89.5			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.439	-0.001	1.089	1677509	75.4			
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.540	-0.001	1.109	499076	86.8			
12 Nitrobenzene										
2	123.0	5.640	5.641	-0.001	1.129	443289	96.9			
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1672318	96.4			
15 2,3-Dinitrotoluene										
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.929	2433360	113.7			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.837	0.030	0.950	3382784	87.1			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3648195	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	1775794	95.4			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3126739	109.3			
21 3,5-Dinitrotoluene										
3	182.0		7.899							
22 o-Nitrotoluene										
4	137.0	8.284	8.284	0.000	1.000	751919	96.8			
23 p-Nitrotoluene										
4	137.0	8.830	8.830	0.000	1.000	687090	99.3			
24 m-Nitrotoluene										
4	137.0	9.499	9.499	0.000	1.000	440456	103.1			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.379							

QC Flag Legend

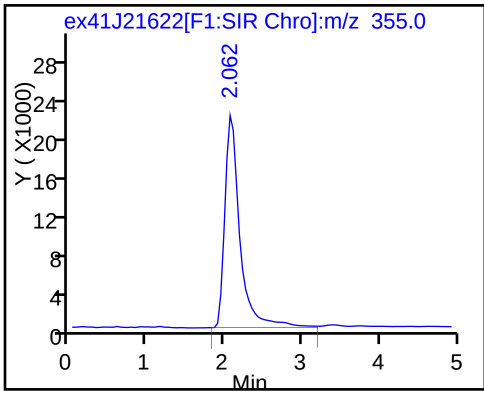
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 06:54:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06

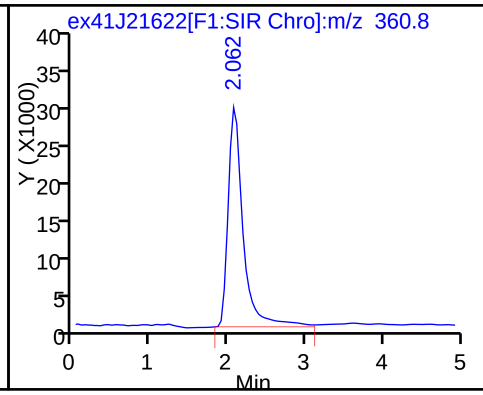
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21622.d

Injection Date:	02-Nov-2011 01:22:37	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94194	Lims Sample ID:	146
Operator ID:		Injection Vol:	40.00 ul

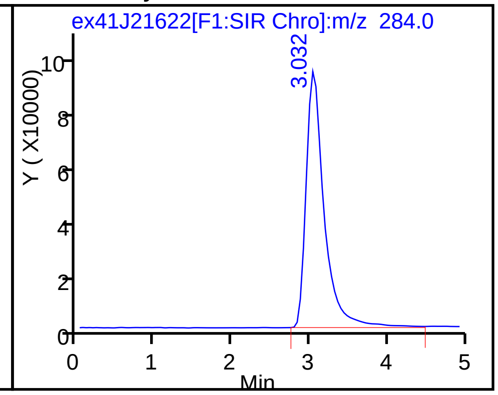
2 HMX



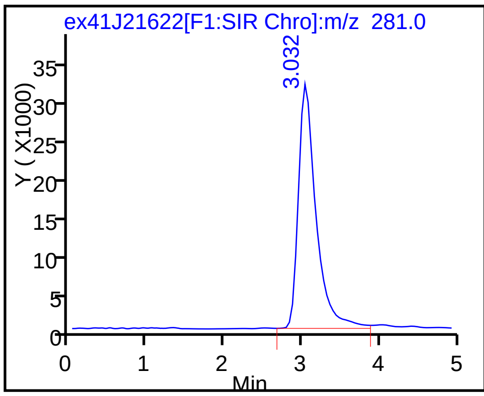
* 1 HMX-13C4



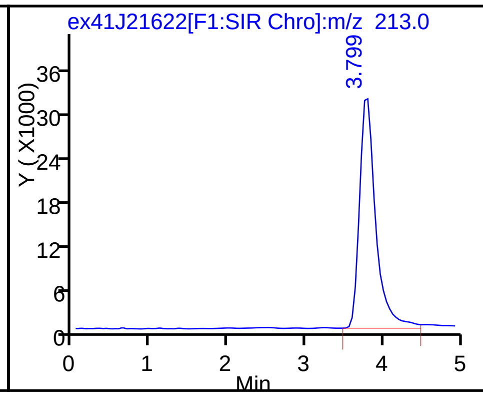
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



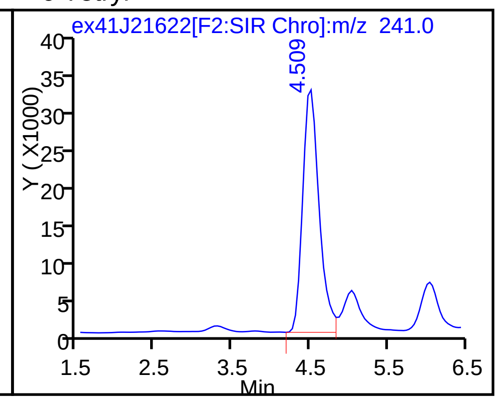
4 RDX



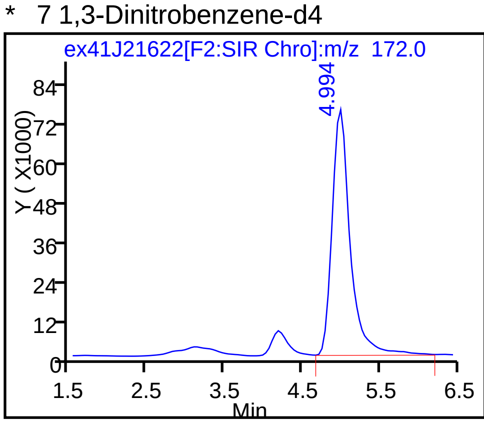
5 1,3,5-Trinitrobenzene



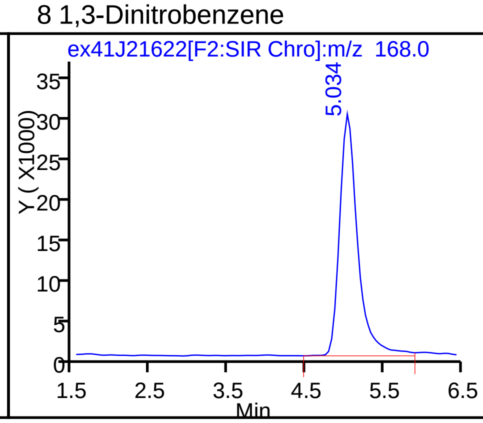
6 Tetryl



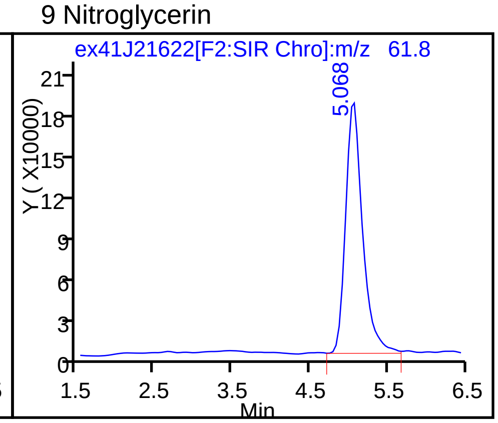
* 7 1,3-Dinitrobenzene-d4



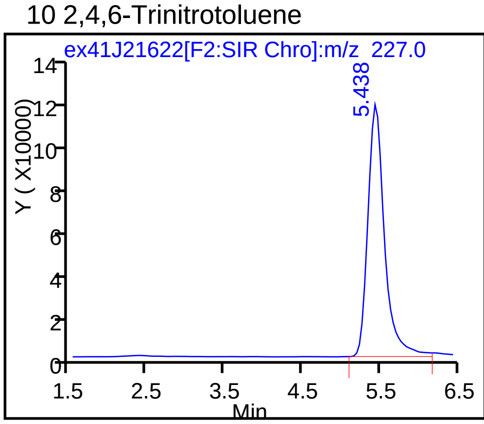
8 1,3-Dinitrobenzene



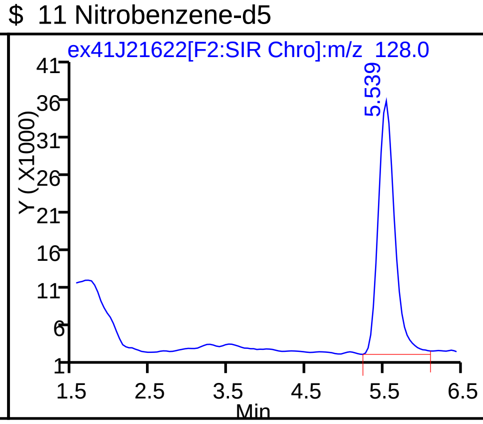
9 Nitroglycerin



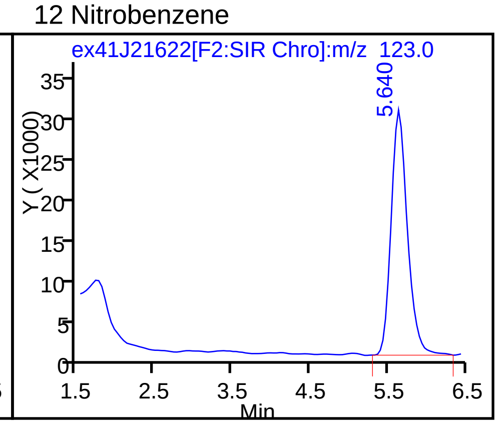
10 2,4,6-Trinitrotoluene



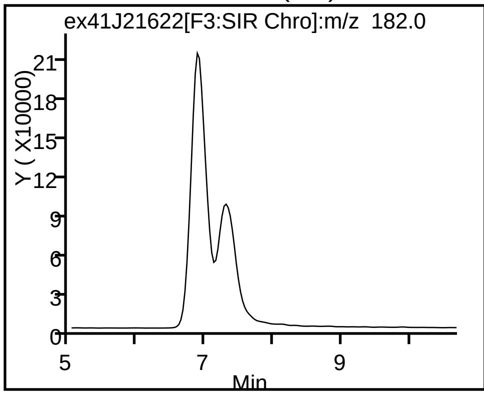
$ 11 Nitrobenzene-d5



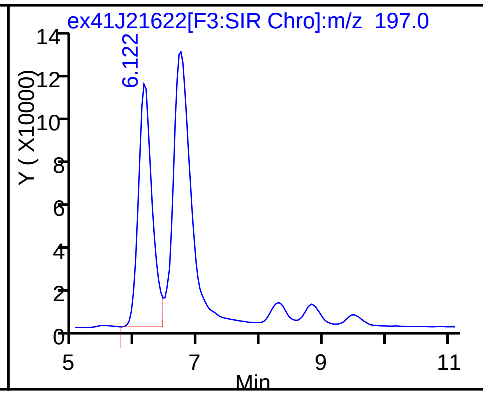
12 Nitrobenzene



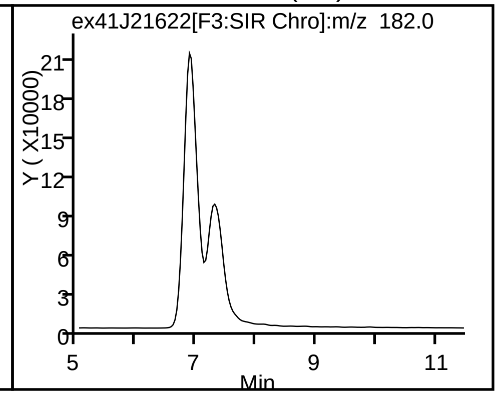
13 3,4-Dinitrotoluene (ND)



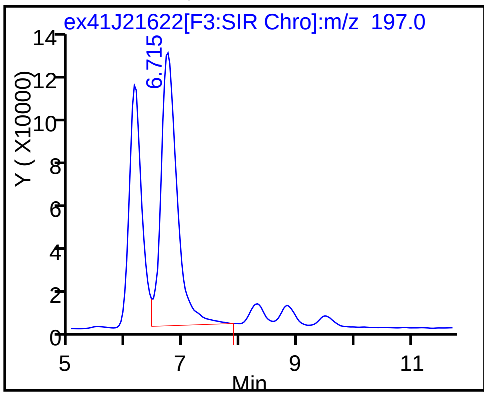
14 4-Amino-2,6-dinitrotoluene



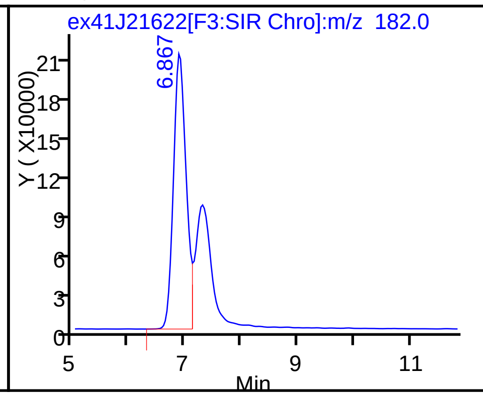
15 2,3-Dinitrotoluene (ND)



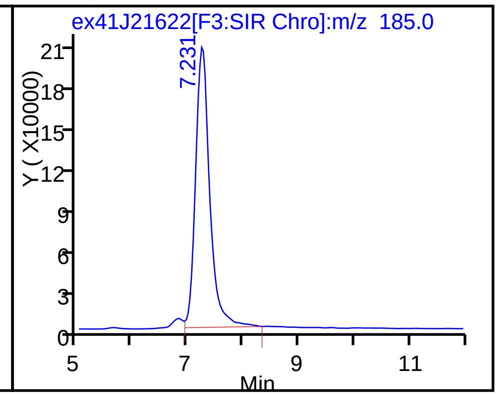
16 2-Amino-4,6-dinitrotoluene



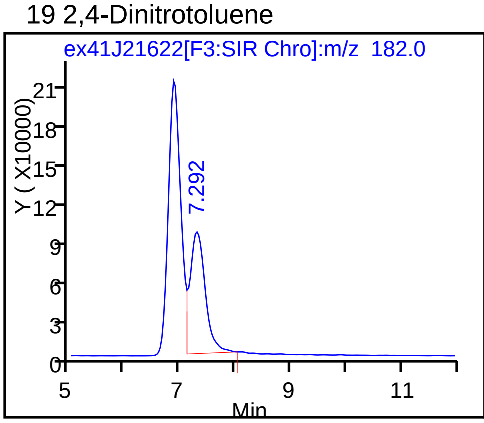
17 2,6-Dinitrotoluene



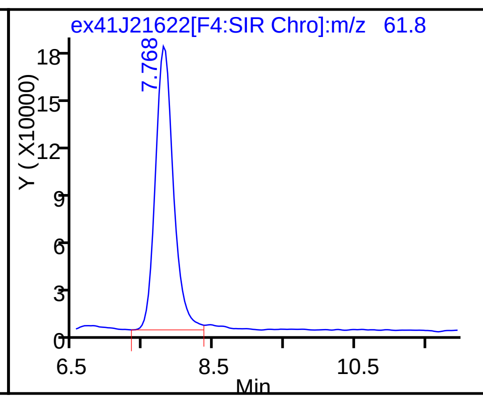
* 18 2,4-dinitrotoluene-d3



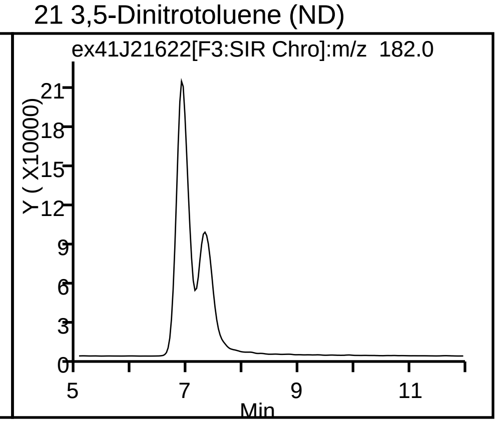
19 2,4-Dinitrotoluene



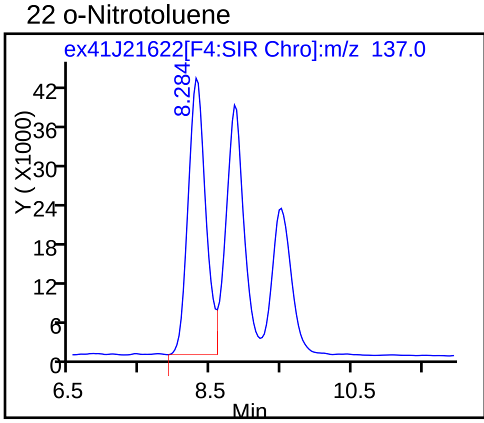
20 PETN



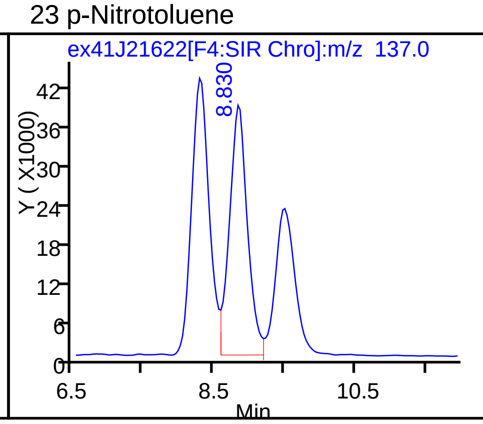
21 3,5-Dinitrotoluene (ND)



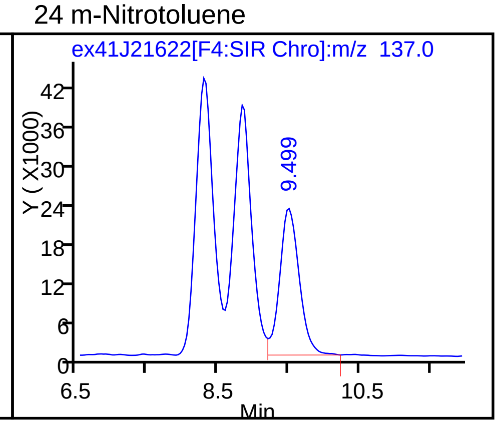
22 o-Nitrotoluene



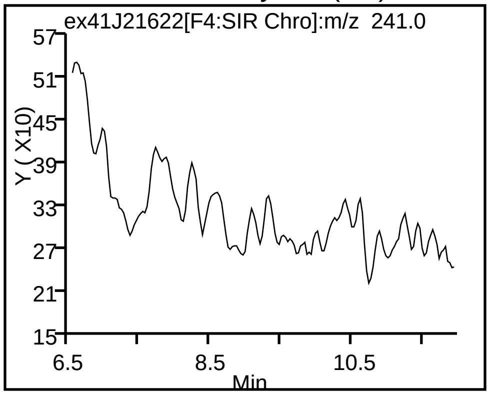
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4 Start Date: 10/21/2011 09:28

Analysis Batch Number: 92354 End Date: 10/21/2011 11:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 280-92354/1 IC		10/21/2011 09:28	1	ex41J21003.d	IonPac 2(mm)
STD010 280-92354/2 IC		10/21/2011 09:41	1	ex41J21004.d	IonPac 2(mm)
STD025 280-92354/3 IC		10/21/2011 09:55	1	ex41J21005.d	IonPac 2(mm)
STD050 280-92354/4 IC		10/21/2011 10:08	1	ex41J21006.d	IonPac 2(mm)
STD100 280-92354/5 ICISAV		10/21/2011 10:22	1	ex41J21007.d	IonPac 2(mm)
STD200 280-92354/6 IC		10/21/2011 10:36	1	ex41J21008.d	IonPac 2(mm)
STD300 280-92354/7 IC		10/21/2011 10:50	1	ex41J21009.d	IonPac 2(mm)
ICB 280-92354/8		10/21/2011 11:04	1	ex41J21010.d	IonPac 2(mm)
ZZZZZ		10/21/2011 11:17	1		IonPac 2(mm)
ICV 280-92354/10		10/21/2011 11:31	1	ex41J21012.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4 Start Date: 10/25/2011 13:33

Analysis Batch Number: 92961 End Date: 10/25/2011 19:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-92961/148		10/25/2011 13:33	1	ex41J21153.d	IonPac 2(mm)
MB 280-92314/1-A		10/25/2011 13:47	1	ex41J21154.d	IonPac 2(mm)
LCS 280-92314/2-A		10/25/2011 14:00	1	ex41J21155.d	IonPac 2(mm)
280-21683-13	MG23 SB099	10/25/2011 14:14	1	ex41J21156.d	IonPac 2(mm)
280-21683-14	MG25 SB103	10/25/2011 14:28	1	ex41J21157.d	IonPac 2(mm)
280-21683-15	MG23 SB098	10/25/2011 14:41	1	ex41J21158.d	IonPac 2(mm)
280-21683-16	MG21 SB093	10/25/2011 14:55	1	ex41J21159.d	IonPac 2(mm)
280-21683-17	MG24 SB100	10/25/2011 15:09	1	ex41J21160.d	IonPac 2(mm)
280-21683-18	MG21 SB092	10/25/2011 15:22	1	ex41J21161.d	IonPac 2(mm)
280-21683-18 MS	MG21 SB092 MS	10/25/2011 15:36	1	ex41J21162.d	IonPac 2(mm)
280-21683-18 MSD	MG21 SB092 MSD	10/25/2011 15:50	1	ex41J21163.d	IonPac 2(mm)
CCV 280-92961/159		10/25/2011 16:03	1	ex41J21164.d	IonPac 2(mm)
280-21683-19	MG35 SB123	10/25/2011 16:17	1	ex41J21165.d	IonPac 2(mm)
280-21683-20	MG26 SB105	10/25/2011 16:31	1	ex41J21166.d	IonPac 2(mm)
280-21683-21	MG24 SB101	10/25/2011 16:44	1	ex41J21167.d	IonPac 2(mm)
280-21683-22	MG35 SB124	10/25/2011 16:58	1	ex41J21168.d	IonPac 2(mm)
280-21683-23	MG35 SB125	10/25/2011 17:12	1	ex41J21169.d	IonPac 2(mm)
280-21683-24	MG36 SB126	10/25/2011 17:25	1	ex41J21170.d	IonPac 2(mm)
280-21683-25	MG36 SB127	10/25/2011 17:39	1	ex41J21171.d	IonPac 2(mm)
CCV 280-92961/167		10/25/2011 17:52	1	ex41J21172.d	IonPac 2(mm)
280-21683-26	MG32 SB115	10/25/2011 18:06	1	ex41J21173.d	IonPac 2(mm)
280-21683-27	MG32 SB116	10/25/2011 18:20	1	ex41J21174.d	IonPac 2(mm)
280-21683-28	MG33 SB117	10/25/2011 18:33	1	ex41J21175.d	IonPac 2(mm)
280-21683-29	MG33 SB119	10/25/2011 18:47	1	ex41J21176.d	IonPac 2(mm)
280-21683-30	MG33 SB118	10/25/2011 19:01	1	ex41J21177.d	IonPac 2(mm)
280-21683-31	MG34 SB121	10/25/2011 19:14	1	ex41J21178.d	IonPac 2(mm)
280-21683-32	MG34 SB122	10/25/2011 19:28	1	ex41J21179.d	IonPac 2(mm)
CCV 280-92961/175		10/25/2011 19:41	1	ex41J21180.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver　　Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4　　Start Date: 10/25/2011 19:41

Analysis Batch Number: 92964　　End Date: 10/26/2011 09:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-92964/175		10/25/2011 19:41	1	ex41J21180.d	IonPac 2(mm)
MB 280-92315/1-A		10/25/2011 19:55	1	ex41J21181.d	IonPac 2(mm)
LCS 280-92315/2-A		10/25/2011 20:09	1	ex41J21182.d	IonPac 2(mm)
280-21683-1	MG26 SB104	10/25/2011 20:23	1	ex41J21183.d	IonPac 2(mm)
280-21683-5	MG20 SB090	10/25/2011 20:36	1	ex41J21184.d	IonPac 2(mm)
280-21683-6	MG20 SB091	10/25/2011 20:50	1	ex41J21185.d	IonPac 2(mm)
280-21683-7	MG22 SB094	10/25/2011 21:04	1	ex41J21186.d	IonPac 2(mm)
280-21683-8	MG22 SB095	10/25/2011 21:17	1	ex41J21187.d	IonPac 2(mm)
CCV 280-92964/183		10/25/2011 21:31	1	ex41J21188.d	IonPac 2(mm)
CCV 280-92964/191		10/26/2011 06:58	1	ex41J21197.d	IonPac 2(mm)
280-21683-9	MG22 SB096	10/26/2011 07:12	1	ex41J21198.d	IonPac 2(mm)
280-21683-10	MG27 SB107	10/26/2011 07:26	1	ex41J21199.d	IonPac 2(mm)
280-21683-11	MG27 SB106	10/26/2011 07:39	1	ex41J21200.d	IonPac 2(mm)
280-21683-11 MS	MG27 SB106 MS	10/26/2011 08:37	1	ex41J21202.d	IonPac 2(mm)
280-21683-11 MSD	MG27 SB106 MSD	10/26/2011 08:51	1	ex41J21203.d	IonPac 2(mm)
280-21683-12	MG25 SB102	10/26/2011 09:05	1	ex41J21204.d	IonPac 2(mm)
CCV 280-92964/198		10/26/2011 09:18	1	ex41J21205.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4 Start Date: 11/01/2011 11:00

Analysis Batch Number: 94192 End Date: 11/01/2011 17:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-94192/83		11/01/2011 11:00	1	ex41J21559.d	IonPac 2(mm)
MB 280-92311/1-A		11/01/2011 11:14	1	ex41J21560.d	IonPac 2(mm)
LCS 280-92311/2-A		11/01/2011 11:28	1	ex41J21561.d	IonPac 2(mm)
280-21683-33	MG31 SB113	11/01/2011 11:42	1	ex41J21562.d	IonPac 2(mm)
280-21683-34	MG31 SB114	11/01/2011 11:55	1	ex41J21563.d	IonPac 2(mm)
280-21683-35	MG30 SB111	11/01/2011 12:09	1	ex41J21564.d	IonPac 2(mm)
280-21683-36	MG30 SB112	11/01/2011 12:22	1	ex41J21565.d	IonPac 2(mm)
280-21683-37	MG29 SB109	11/01/2011 12:38	1	ex41J21566.d	IonPac 2(mm)
280-21683-38	MG29 SB110	11/01/2011 12:51	1	ex41J21567.d	IonPac 2(mm)
CCV 280-94192/92		11/01/2011 13:05	1	ex41J21568.d	IonPac 2(mm)
280-21683-39	MG06 SB062	11/01/2011 13:19	1	ex41J21569.d	IonPac 2(mm)
280-21683-40	MG06 SB063	11/01/2011 13:33	1	ex41J21570.d	IonPac 2(mm)
280-21683-41	MG06 SB064	11/01/2011 13:46	1	ex41J21571.d	IonPac 2(mm)
280-21683-42	MG05 SB060	11/01/2011 14:00	1	ex41J21572.d	IonPac 2(mm)
280-21683-43	MG05 SB061	11/01/2011 14:14	1	ex41J21573.d	IonPac 2(mm)
280-21683-44	MG04 SB058	11/01/2011 14:27	1	ex41J21574.d	IonPac 2(mm)
280-21683-45	MG04 SB059	11/01/2011 14:41	1	ex41J21575.d	IonPac 2(mm)
280-21683-46	MG03 SB056	11/01/2011 14:54	1	ex41J21576.d	IonPac 2(mm)
CCV 280-94192/101		11/01/2011 15:08	1	ex41J21577.d	IonPac 2(mm)
280-21683-47	MG03 SB057	11/01/2011 15:22	1	ex41J21578.d	IonPac 2(mm)
280-21683-47 MS	MG03 SB057 MS	11/01/2011 15:36	1	ex41J21579.d	IonPac 2(mm)
280-21683-47 MSD	MG03 SB057 MSD	11/01/2011 15:50	1	ex41J21580.d	IonPac 2(mm)
280-21683-48	MG02 SB054	11/01/2011 16:03	1	ex41J21581.d	IonPac 2(mm)
280-21683-49	MG02 SB055	11/01/2011 16:17	1	ex41J21582.d	IonPac 2(mm)
280-21683-50	MG15 SB081	11/01/2011 16:30	1	ex41J21583.d	IonPac 2(mm)
280-21683-51	MG15 SB082	11/01/2011 16:44	1	ex41J21584.d	IonPac 2(mm)
280-21683-52	MG12 SB073	11/01/2011 16:58	1	ex41J21585.d	IonPac 2(mm)
CCV 280-94192/110		11/01/2011 17:11	1	ex41J21586.d	IonPac 2(mm)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4 Start Date: 11/01/2011 17:11

Analysis Batch Number: 94193 End Date: 11/01/2011 23:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-94193/110		11/01/2011 17:11	1	ex41J21586.d	IonPac 2(mm)
MB 280-92097/1-A		11/01/2011 17:25	1	ex41J21587.d	IonPac 2(mm)
LCS 280-92097/2-A		11/01/2011 17:39	1	ex41J21588.d	IonPac 2(mm)
280-21683-53	MG12 SB075	11/01/2011 17:53	1	ex41J21589.d	IonPac 2(mm)
280-21683-54	MG12 SB074	11/01/2011 18:06	1	ex41J21590.d	IonPac 2(mm)
280-21683-54 MS	MG12 SB074 MS	11/01/2011 18:20	1	ex41J21591.d	IonPac 2(mm)
280-21683-54 MSD	MG12 SB074 MSD	11/01/2011 18:33	1	ex41J21592.d	IonPac 2(mm)
280-21683-55	MG11 SB071	11/01/2011 18:47	1	ex41J21593.d	IonPac 2(mm)
280-21683-56	MG11 SB072	11/01/2011 19:00	1	ex41J21594.d	IonPac 2(mm)
CCV 280-94193/119		11/01/2011 19:14	1	ex41J21595.d	IonPac 2(mm)
280-21683-57	MG14 SB079	11/01/2011 19:28	1	ex41J21596.d	IonPac 2(mm)
280-21683-58	MG14 SB080	11/01/2011 19:42	1	ex41J21597.d	IonPac 2(mm)
280-21683-59	MG13 SB077	11/01/2011 19:55	1	ex41J21598.d	IonPac 2(mm)
280-21683-60	MG13 SB078	11/01/2011 20:09	1	ex41J21599.d	IonPac 2(mm)
280-21683-61	MG16 SB083	11/01/2011 20:22	1	ex41J21600.d	IonPac 2(mm)
280-21683-62	MG16 SB084	11/01/2011 20:36	1	ex41J21601.d	IonPac 2(mm)
280-21683-63	MG09 SB069	11/01/2011 20:49	1	ex41J21602.d	IonPac 2(mm)
280-21683-64	MG09 SB070	11/01/2011 21:03	1	ex41J21603.d	IonPac 2(mm)
CCV 280-94193/128		11/01/2011 21:17	1	ex41J21604.d	IonPac 2(mm)
280-21683-65	MG08 SB067	11/01/2011 21:30	1	ex41J21605.d	IonPac 2(mm)
280-21683-66	MG08 SB068	11/01/2011 21:44	1	ex41J21606.d	IonPac 2(mm)
280-21683-67	MG07 SB065	11/01/2011 21:58	1	ex41J21607.d	IonPac 2(mm)
280-21683-68	MG07 SB066	11/01/2011 22:11	1	ex41J21608.d	IonPac 2(mm)
280-21683-69	MG17 SB085	11/01/2011 22:25	1	ex41J21609.d	IonPac 2(mm)
280-21683-70	MG17 SB086	11/01/2011 22:38	1	ex41J21610.d	IonPac 2(mm)
280-21683-71	MG17 SB087	11/01/2011 22:52	1	ex41J21611.d	IonPac 2(mm)
280-21683-72	MG18 SB088	11/01/2011 23:06	1	ex41J21612.d	IonPac 2(mm)
CCV 280-94193/137		11/01/2011 23:19	1	ex41J21613.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4 Start Date: 11/01/2011 23:19

Analysis Batch Number: 94194 End Date: 11/02/2011 05:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-94194/137		11/01/2011 23:19	1	ex41J21613.d	IonPac 2(mm)
MB 280-92102/1-A		11/01/2011 23:33	1	ex41J21614.d	IonPac 2(mm)
LCS 280-92102/2-A		11/01/2011 23:47	1	ex41J21615.d	IonPac 2(mm)
280-21683-73	MG18 SB089	11/02/2011 00:01	1	ex41J21616.d	IonPac 2(mm)
280-21683-77	CP10 SB014	11/02/2011 00:14	1	ex41J21617.d	IonPac 2(mm)
280-21683-78	CP10 SB015	11/02/2011 00:28	1	ex41J21618.d	IonPac 2(mm)
280-21683-79	CP09 SB012	11/02/2011 00:41	1	ex41J21619.d	IonPac 2(mm)
280-21683-80	CP09 SB013	11/02/2011 00:55	1	ex41J21620.d	IonPac 2(mm)
280-21683-80 MS	CP09 SB013 MS	11/02/2011 01:09	1	ex41J21621.d	IonPac 2(mm)
280-21683-80 MSD	CP09 SB013 MSD	11/02/2011 01:22	1	ex41J21622.d	IonPac 2(mm)
CCV 280-94194/147		11/02/2011 01:36	1	ex41J21623.d	IonPac 2(mm)
280-21683-81	CP08 SB009	11/02/2011 01:50	1	ex41J21624.d	IonPac 2(mm)
280-21683-82	CP08 SB010	11/02/2011 02:03	1	ex41J21625.d	IonPac 2(mm)
280-21683-83	CP08 SB011	11/02/2011 02:17	1	ex41J21626.d	IonPac 2(mm)
280-21683-84	CP11 SB16A	11/02/2011 02:30	1	ex41J21627.d	IonPac 2(mm)
280-21683-85	CP11 SB16B	11/02/2011 02:44	1	ex41J21628.d	IonPac 2(mm)
280-21683-86	CP07 SB007	11/02/2011 02:58	1	ex41J21629.d	IonPac 2(mm)
280-21683-87	CP07 SB008	11/02/2011 03:11	1	ex41J21630.d	IonPac 2(mm)
280-21683-88	CP04 SB001	11/02/2011 03:25	1	ex41J21631.d	IonPac 2(mm)
CCV 280-94194/156		11/02/2011 03:38	1	ex41J21632.d	IonPac 2(mm)
280-21683-89	CP04 SB002	11/02/2011 03:52	1	ex41J21633.d	IonPac 2(mm)
280-21683-90	CP06 SB005	11/02/2011 04:06	1	ex41J21634.d	IonPac 2(mm)
280-21683-91	CP06 SB006	11/02/2011 04:20	1	ex41J21635.d	IonPac 2(mm)
280-21683-92	CP05 SB003	11/02/2011 04:33	1	ex41J21636.d	IonPac 2(mm)
280-21683-93	CP05 SB004	11/02/2011 04:47	1	ex41J21637.d	IonPac 2(mm)
280-21683-94	CP12 SB017	11/02/2011 05:00	1	ex41J21638.d	IonPac 2(mm)
280-21683-95	CP12 SB018	11/02/2011 05:14	1	ex41J21639.d	IonPac 2(mm)
CCV 280-94194/164		11/02/2011 05:28	1	ex41J21640.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: LC_LCMS4 Start Date: 11/02/2011 05:28

Analysis Batch Number: 94252 End Date: 11/02/2011 10:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-94252/164		11/02/2011 05:28	1	ex41J21640.d	IonPac 2(mm)
MB 280-93548/1-A		11/02/2011 05:42	1	ex41J21641.d	IonPac 2(mm)
LCS 280-93548/2-A		11/02/2011 05:55	1	ex41J21642.d	IonPac 2(mm)
GB 280-92116/1-B		11/02/2011 06:09	1	ex41J21643.d	IonPac 2(mm)
LCSSRM 280-92116/2-B		11/02/2011 06:23	1	ex41J21644.d	IonPac 2(mm)
280-21683-2	MG19 IS016	11/02/2011 06:36	1	ex41J21645.d	IonPac 2(mm)
280-21683-3	MG19 IS017	11/02/2011 06:50	1	ex41J21646.d	IonPac 2(mm)
280-21683-4	MG19 IS018	11/02/2011 07:03	1	ex41J21647.d	IonPac 2(mm)
280-21683-74	CP01 IS01	11/02/2011 07:17	1	ex41J21648.d	IonPac 2(mm)
280-21683-75	CP01 IS02	11/02/2011 07:30	1	ex41J21649.d	IonPac 2(mm)
280-21683-76	CP01 IS03	11/02/2011 07:44	1	ex41J21650.d	IonPac 2(mm)
CCV 280-94252/175		11/02/2011 07:57	1	ex41J21651.d	IonPac 2(mm)
ZZZZZ		11/02/2011 08:11	1		IonPac 2(mm)
ZZZZZ		11/02/2011 08:25	1		IonPac 2(mm)
ZZZZZ		11/02/2011 08:39	1		IonPac 2(mm)
ZZZZZ		11/02/2011 08:52	1		IonPac 2(mm)
ZZZZZ		11/02/2011 09:06	1		IonPac 2(mm)
ZZZZZ		11/02/2011 09:20	1		IonPac 2(mm)
ZZZZZ		11/02/2011 09:33	1		IonPac 2(mm)
ZZZZZ		11/02/2011 09:47	1		IonPac 2(mm)
CCV 280-94252/184		11/02/2011 10:01	1	ex41J21660.d	IonPac 2(mm)

8321B

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 92097 Batch Start Date: 10/19/11 19:21 Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B Batch End Date: 10/20/11 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00015		
MB 280-92097/1		8330B, 8321B		10.26 g	40 mL		1 mL		
LCS 280-92097/2		8330B, 8321B		10.35 g	40 mL	1 mL	1 mL		
280-21683-B-53-A	MG12 SB075	8330B, 8321B	T	10.70 g	40 mL		1 mL		
280-21683-A-54-A	MG12 SB074	8330B, 8321B	T	10.18 g	40 mL		1 mL		
280-21683-A-54-A MS	MG12 SB074	8330B, 8321B	T	10.13 g	40 mL	1 mL	1 mL		
280-21683-A-54-A MSD	MG12 SB074	8330B, 8321B	T	10.16 g	40 mL	1 mL	1 mL		
280-21683-A-55-A	MG11 SB071	8330B, 8321B	T	10.32 g	40 mL		1 mL		
280-21683-A-56-A	MG11 SB072	8330B, 8321B	T	10.52 g	40 mL		1 mL		
280-21683-B-57-A	MG14 SB079	8330B, 8321B	T	10.05 g	40 mL		1 mL		
280-21683-B-58-A	MG14 SB080	8330B, 8321B	T	10.06 g	40 mL		1 mL		
280-21683-A-59-A	MG13 SB077	8330B, 8321B	T	10.55 g	40 mL		1 mL		
280-21683-B-60-A	MG13 SB078	8330B, 8321B	T	10.55 g	40 mL		1 mL		
280-21683-B-61-A	MG16 SB083	8330B, 8321B	T	10.18 g	40 mL		1 mL		
280-21683-A-62-A	MG16 SB084	8330B, 8321B	T	10.08 g	40 mL		1 mL		
280-21683-A-63-A	MG09 SB069	8330B, 8321B	T	10.04 g	40 mL		1 mL		
280-21683-A-64-A	MG09 SB070	8330B, 8321B	T	10.33 g	40 mL		1 mL		
280-21683-B-65-A	MG08 SB067	8330B, 8321B	T	10.41 g	40 mL		1 mL		
280-21683-B-66-A	MG08 SB068	8330B, 8321B	T	10.04 g	40 mL		1 mL		
280-21683-A-67-A	MG07 SB065	8330B, 8321B	T	10.12 g	40 mL		1 mL		
280-21683-A-68-A	MG07 SB066	8330B, 8321B	T	10.53 g	40 mL		1 mL		
280-21683-A-69-A	MG17 SB085	8330B, 8321B	T	10.58 g	40 mL		1 mL		
280-21683-A-70-A	MG17 SB086	8330B, 8321B	T	10.88 g	40 mL		1 mL		
280-21683-A-71-A	MG17 SB087	8330B, 8321B	T	10.22 g	40 mL		1 mL		

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 92097 Batch Start Date: 10/19/11 19:21 Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B Batch End Date: 10/20/11 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00015		
280-21683-A-72-A	MG18 SB088	8330B, 8321B	T	10.06 g	40 mL		1 mL		

Batch Notes	
Balance ID	24750836
Person's name who did the concentration	Filtered by:CokleyC
Filter Lot #	00127894
Filter Type	0.2 um
Pipette ID	F
Pipette ID for Solvent	Exp-1
Prep Solvent Volume Used	20 mL
Person's name who witnessed reagent drop	Reviewer:PottruffE
Blank Sand Lot #	2AB0606
Solvent Lot #	0.1%AAinACN_00007
Solvent Name	A.ACN
Sonication Start Time	Shaker table start: 10.19.11@1936
Sonication Stop Time	Shaker table stop: 10.20.11@1428
SOP Number	DV-OP-0018

Basis	Basis Description
T	Total/NA

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 92102 Batch Start Date: 10/19/11 20:50 Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B Batch End Date: 10/20/11 16:11

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00015		
MB 280-92102/1		8330B, 8321B		10.33 g	40 mL		1 mL		
LCS 280-92102/2		8330B, 8321B		10.14 g	40 mL	1 mL	1 mL		
280-21683-A-73-A	MG18 SB089	8330B, 8321B	T	10.43 g	40 mL		1 mL		
280-21683-B-77-A	CP10 SB014	8330B, 8321B	T	10.48 g	40 mL		1 mL		
280-21683-B-78-A	CP10 SB015	8330B, 8321B	T	10.06 g	40 mL		1 mL		
280-21683-A-79-A	CP09 SB012	8330B, 8321B	T	10.18 g	40 mL		1 mL		
280-21683-B-80-A	CP09 SB013	8330B, 8321B	T	10.79 g	40 mL		1 mL		
280-21683-B-80-A MS	CP09 SB013	8330B, 8321B	T	10.15 g	40 mL	1 mL	1 mL		
280-21683-B-80-A MSD	CP09 SB013	8330B, 8321B	T	10.08 g	40 mL	1 mL	1 mL		
280-21683-A-81-A	CP08 SB009	8330B, 8321B	T	10.48 g	40 mL		1 mL		
280-21683-A-82-A	CP08 SB010	8330B, 8321B	T	10.40 g	40 mL		1 mL		
280-21683-A-83-A	CP08 SB011	8330B, 8321B	T	10.44 g	40 mL		1 mL		
280-21683-B-84-A	CP11 SB16A	8330B, 8321B	T	10.32 g	40 mL		1 mL		
280-21683-A-85-A	CP11 SB16B	8330B, 8321B	T	10.48 g	40 mL		1 mL		
280-21683-A-86-A	CP07 SB007	8330B, 8321B	T	10.30 g	40 mL		1 mL		
280-21683-A-87-A	CP07 SB008	8330B, 8321B	T	10.68 g	40 mL		1 mL		
280-21683-A-88-A	CP04 SB001	8330B, 8321B	T	10.59 g	40 mL		1 mL		
280-21683-A-89-A	CP04 SB002	8330B, 8321B	T	10.18 g	40 mL		1 mL		
280-21683-B-90-A	CP06 SB005	8330B, 8321B	T	10.85 g	40 mL		1 mL		
280-21683-A-91-A	CP06 SB006	8330B, 8321B	T	10.13 g	40 mL		1 mL		
280-21683-B-92-A	CP05 SB003	8330B, 8321B	T	10.13 g	40 mL		1 mL		
280-21683-A-93-A	CP05 SB004	8330B, 8321B	T	10.14 g	40 mL		1 mL		
280-21683-B-94-A	CP12 SB017	8330B, 8321B	T	10.12 g	40 mL		1 mL		

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 92102   Batch Start Date: 10/19/11 20:50   Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B   Batch End Date: 10/20/11 16:11

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00015		
280-21683-B-95-A	CP12 SB018	8330B, 8321B	T	10.22 g	40 mL		1 mL		

Batch Notes	
Balance ID	24750836
Person's name who did the concentration	Filtered by:cokleyC
Filter Lot #	00127894
Filter Type	0.2 um
Pipette ID	F
Pipette ID for Solvent	Exp-1
Prep Solvent Volume Used	20 mL
Person's name who witnessed reagent drop	Reviewer:WigginsJ
Blank Sand Lot #	2AB0606
Solvent Lot #	0.1%AAinACN_00007
Solvent Name	A.ACN
Sonication Start Time	Shaker table start: 10.19.11@2110
Sonication Stop Time	Shaker table stop: 10.20.11@1540
SOP Number	DV-OP-0018

Basis	Basis Description
T	Total/NA

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 92116   Batch Start Date: 10/19/11 23:22   Batch Analyst: Cokley, Cheyana D

Batch Method: 8330   Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
GB 280-92116/1		8330, 8330B, 8321B		21683, 21902					

Batch Notes	
Date and Time laid out to Dry	10.19.11@2322 (21683); 10.22.11 @ 1615 (21902)10.26.11@1700(22003)
Date and Time When Seived	10.20.11 @ 1500 (21683); 10.26.11 @0830 (21902); 10.28.11 @ 0845 (22003)
Initials for Seiving	SB (21683); BMS (21902/22003)
Initials for Ring and Puck Grinding	cdc(21683 2-4); AF (21683 74-76, 21902); EG (22003)
Initials for Drying	CDC 921683); BMS (21902/22003)
Initials for Label Check	CDC (21683); DV (21902); CDC (22003)
Laid out on Parchment or Foil	Parchment
Lot # of Sand for Grinding Blank (PM)	2AB0606
Mesh Size of Seive	10
Reagent ID of SRM Grinding LCS (LCSSRM)	8330GrindLCS_00067 Ground 10.27.11@1600
Ring and Puck	cdc 10.26.11@1500(21683-2-4); 10.27.11@1130(21683 74-76, 21902); 10.28.11 @ 1100 (22003)
SOP Number	DV-OP-0018

Basis	Basis Description

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 92311   Batch Start Date: 10/20/11 19:23   Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B   Batch End Date: 10/21/11 15:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00016		
MB 280-92311/1		8330B, 8321B		10.21 g	40 mL		1 mL		
LCS 280-92311/2		8330B, 8321B		10.10 g	40 mL	1 mL	1 mL		
280-21683-B-33-A	MG31 SB113	8330B, 8321B	T	10.15 g	40 mL		1 mL		
280-21683-A-34-A	MG31 SB114	8330B, 8321B	T	10.30 g	40 mL		1 mL		
280-21683-A-35-A	MG30 SB111	8330B, 8321B	T	10.45 g	40 mL		1 mL		
280-21683-B-36-A	MG30 SB112	8330B, 8321B	T	10.19 g	40 mL		1 mL		
280-21683-B-37-A	MG29 SB109	8330B, 8321B	T	10.40 g	40 mL		1 mL		
280-21683-A-38-A	MG29 SB110	8330B, 8321B	T	10.27 g	40 mL		1 mL		
280-21683-B-39-A	MG06 SB062	8330B, 8321B	T	10.03 g	40 mL		1 mL		
280-21683-A-40-A	MG06 SB063	8330B, 8321B	T	10.05 g	40 mL		1 mL		
280-21683-A-41-A	MG06 SB064	8330B, 8321B	T	10.91 g	40 mL		1 mL		
280-21683-A-42-A	MG05 SB060	8330B, 8321B	T	10.30 g	40 mL		1 mL		
280-21683-A-43-A	MG05 SB061	8330B, 8321B	T	10.90 g	40 mL		1 mL		
280-21683-A-44-A	MG04 SB058	8330B, 8321B	T	10.50 g	40 mL		1 mL		
280-21683-B-45-A	MG04 SB059	8330B, 8321B	T	10.02 g	40 mL		1 mL		
280-21683-B-46-A	MG03 SB056	8330B, 8321B	T	10.13 g	40 mL		1 mL		
280-21683-B-47-A	MG03 SB057	8330B, 8321B	T	10.15 g	40 mL		1 mL		
280-21683-B-47-A MS	MG03 SB057	8330B, 8321B	T	10.07 g	40 mL	1 mL	1 mL		
280-21683-B-47-A MSD	MG03 SB057	8330B, 8321B	T	10.13 g	40 mL	1 mL	1 mL		
280-21683-A-48-A	MG02 SB054	8330B, 8321B	T	10.05 g	40 mL		1 mL		
280-21683-B-49-A	MG02 SB055	8330B, 8321B	T	10.34 g	40 mL		1 mL		
280-21683-B-50-A	MG15 SB081	8330B, 8321B	T	10.50 g	40 mL		1 mL		
280-21683-B-51-A	MG15 SB082	8330B, 8321B	T	10.08 g	40 mL		1 mL		

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 92311   Batch Start Date: 10/20/11 19:23   Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B   Batch End Date: 10/21/11 15:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00016		
280-21683-B-52-A	MG12 SB073	8330B, 8321B	T	10.03 g	40 mL		1 mL		

Batch Notes	
Balance ID	24750836
Person's name who did the concentration	Filtered by: Blythe, S.
Filter Lot #	00133971
Filter Type	.2um
Pipette ID	C
Pipette ID for Solvent	Exp-1
Prep Solvent Volume Used	20 mL
Person's name who witnessed reagent drop	Reviewer:WigginsJ
Blank Sand Lot #	2AB0606
Solvent Lot #	.1%AAinACN_00007
Solvent Name	A.Acn
Sonication Start Time	Shaker table start: 10.20.11@2000
Sonication Stop Time	shaker table stop: 10.21.11@ 1405
SOP Number	DV-OP-0018

Basis	Basis Description
T	Total/NA

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 92314 Batch Start Date: 10/20/11 19:17 Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B Batch End Date: 10/21/11 15:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00016		
MB 280-92314/1		8330B, 8321B		10.05 g	40 mL		1 mL		
LCS 280-92314/2		8330B, 8321B		10.04 g	40 mL	1 mL	1 mL		
280-21683-A-13-A	MG23 SB099	8330B, 8321B	T	10.20 g	40 mL		1 mL		
280-21683-B-14-A	MG25 SB103	8330B, 8321B	T	10.52 g	40 mL		1 mL		
280-21683-B-15-A	MG23 SB098	8330B, 8321B	T	10.84 g	40 mL		1 mL		
280-21683-A-16-A	MG21 SB093	8330B, 8321B	T	10.72 g	40 mL		1 mL		
280-21683-B-17-A	MG24 SB100	8330B, 8321B	T	10.37 g	40 mL		1 mL		
280-21683-A-18-A	MG21 SB092	8330B, 8321B	T	10.07 g	40 mL		1 mL		
280-21683-A-18-A MS	MG21 SB092	8330B, 8321B	T	10.16 g	40 mL	1 mL	1 mL		
280-21683-A-18-A MSD	MG21 SB092	8330B, 8321B	T	10.32 g	40 mL	1 mL	1 mL		
280-21683-A-19-A	MG35 SB123	8330B, 8321B	T	10.08 g	40 mL		1 mL		
280-21683-A-20-A	MG26 SB105	8330B, 8321B	T	10.18 g	40 mL		1 mL		
280-21683-B-21-A	MG24 SB101	8330B, 8321B	T	10.44 g	40 mL		1 mL		
280-21683-A-22-A	MG35 SB124	8330B, 8321B	T	10.48 g	40 mL		1 mL		
280-21683-B-23-A	MG35 SB125	8330B, 8321B	T	10.15 g	40 mL		1 mL		
280-21683-B-24-A	MG36 SB126	8330B, 8321B	T	10.58 g	40 mL		1 mL		
280-21683-A-25-A	MG36 SB127	8330B, 8321B	T	10.77 g	40 mL		1 mL		
280-21683-A-26-A	MG32 SB115	8330B, 8321B	T	10.12 g	40 mL		1 mL		
280-21683-B-27-A	MG32 SB116	8330B, 8321B	T	10.81 g	40 mL		1 mL		
280-21683-B-28-A	MG33 SB117	8330B, 8321B	T	10.45 g	40 mL		1 mL		
280-21683-B-29-A	MG33 SB119	8330B, 8321B	T	10.77 g	40 mL		1 mL		
280-21683-A-30-A	MG33 SB118	8330B, 8321B	T	10.06 g	40 mL		1 mL		
280-21683-A-31-A	MG34 SB121	8330B, 8321B	T	10.15 g	40 mL		1 mL		

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 92314   Batch Start Date: 10/20/11 19:17   Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B   Batch End Date: 10/21/11 15:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00016		
280-21683-B-32-A	MG34 SB122	8330B, 8321B	T	10.16 g	40 mL		1 mL		

Batch Notes	
Balance ID	24750836
Person's name who did the concentration	Filtered by: Blythe, S.
Filter Lot #	00133971
Filter Type	.2um
Pipette ID	C
Pipette ID for Solvent	Exp-1
Prep Solvent Volume Used	20 mL
Person's name who witnessed reagent drop	Reviewer:WigginsJ
Blank Sand Lot #	2AB0606
Solvent Lot #	.1%AAinACN_00007
Solvent Name	A.Acn
Sonication Start Time	Shaker table start: 10.20.11@2000
Sonication Stop Time	shaker table stop: 10.21.11@ 1405
SOP Number	DV-OP-0018

Basis	Basis Description
T	Total/NA

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 92315   Batch Start Date: 10/20/11 19:15   Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B   Batch End Date: 10/21/11 15:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00016		
MB 280-92315/1		8330B, 8321B		10.81 g	40 mL		1 mL		
LCS 280-92315/2		8330B, 8321B		10.17 g	40 mL	1 mL	1 mL		
280-21683-B-1-A	MG26 SB104	8330B, 8321B	T	10.24 g	40 mL		1 mL		
280-21683-B-5-A	MG20 SB090	8330B, 8321B	T	10.06 g	40 mL		1 mL		
280-21683-A-6-A	MG20 SB091	8330B, 8321B	T	10.60 g	40 mL		1 mL		
280-21683-A-7-A	MG22 SB094	8330B, 8321B	T	10.47 g	40 mL		1 mL		
280-21683-A-8-A	MG22 SB095	8330B, 8321B	T	10.63 g	40 mL		1 mL		
280-21683-A-9-A	MG22 SB096	8330B, 8321B	T	10.11 g	40 mL		1 mL		
280-21683-B-10-A	MG27 SB107	8330B, 8321B	T	10.28 g	40 mL		1 mL		
280-21683-A-11-A	MG27 SB106	8330B, 8321B	T	10.59 g	40 mL		1 mL		
280-21683-A-11-A MS	MG27 SB106	8330B, 8321B	T	10.32 g	40 mL	1 mL	1 mL		
280-21683-A-11-A MSD	MG27 SB106	8330B, 8321B	T	10.21 g	40 mL	1 mL	1 mL		
280-21683-A-12-A	MG25 SB102	8330B, 8321B	T	10.16 g	40 mL		1 mL		

Batch Notes	
Balance ID	24750836
Person's name who did the concentration	Filtered by: Blythe, S.
Filter Lot #	00133971
Filter Type	.2um
Pipette ID	C
Pipette ID for Solvent	Exp-1
Prep Solvent Volume Used	20 mL
Person's name who witnessed reagent drop	Reviewer:WigginsJ
Blank Sand Lot #	2AB0606
Solvent Lot #	.1%AAinACN_00007
Solvent Name	A.Acn
Sonication Start Time	Shaker table start: 10.20.11@2000
Sonication Stop Time	shaker table stop: 10.21.11@ 1405
SOP Number	DV-OP-0018

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 92315   Batch Start Date: 10/20/11 19:15   Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B   Batch End Date: 10/21/11 15:20

Basis	Basis Description
T	Total/NA

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 93548 Batch Start Date: 10/27/11 22:10 Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B Batch End Date: 10/28/11 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00017	8330 GrindLCS 00067	
MB 280-93548/1		8330B, 8321B		10.28 g	40 mL		1 mL		
LCS 280-93548/2		8330B, 8321B		10.07 g	40 mL	1 mL	1 mL		
GB 280-92116/1-A		8330B, 8321B		10.82 g	40 mL		1 mL		
LCSSRM 280-92116/2-A		8330B, 8321B		10.18 g	40 mL		1 mL	10.18 g	
280-21683-A-2-A	MG19 IS016	8330B, 8321B	T	10.57 g	40 mL		1 mL		
280-21683-A-3-A	MG19 IS017	8330B, 8321B	T	10.55 g	40 mL		1 mL		
280-21683-A-4-A	MG19 IS018	8330B, 8321B	T	10.19 g	40 mL		1 mL		
280-21683-A-74-A	CP01 IS01	8330B, 8321B	T	10.13 g	40 mL		1 mL		
280-21683-A-75-A	CP01 IS02	8330B, 8321B	T	10.27 g	40 mL		1 mL		
280-21683-A-76-A	CP01 IS03	8330B, 8321B	T	10.36 g	40 mL		1 mL		

Batch Notes	
Balance ID	24750836
Person's name who did the concentration	Filtered by:Guest, Erin
Filter Lot #	00133971
Filter Type	0.2um
Pipette ID	C
Pipette ID for Solvent	Exp-1
Prep Solvent Volume Used	20 mL
Person's name who witnessed reagent drop	Reviewer:PottruffE
Blank Sand Lot #	2AB0606
Solvent Lot #	0.1%AAinACN_00009
Solvent Name	A.ACN
Sonication Start Time	Shaker table start: 10.27.11@2228
Sonication Stop Time	shaker table stop: 10.28.11@1632
SOP Number	DV-OP-0018

Basis	Basis Description
T	Total/NA

METALS

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METALS

Lab Name: TestAmerica Denver Job Number: 280-21683-1

SDG No.:

Project: Martha's Vineyard RI

Client Sample ID	Lab Sample ID
MG26 SB104	280-21683-1
MG19 IS016	280-21683-2
MG19 IS017	280-21683-3
MG19 IS018	280-21683-4
MG20 SB090	280-21683-5
MG20 SB091	280-21683-6
MG22 SB094	280-21683-7
MG22 SB095	280-21683-8
MG22 SB096	280-21683-9
MG27 SB107	280-21683-10
MG27 SB106	280-21683-11
MG25 SB102	280-21683-12
MG23 SB099	280-21683-13
MG25 SB103	280-21683-14
MG23 SB098	280-21683-15
MG21 SB093	280-21683-16
MG24 SB100	280-21683-17
MG21 SB092	280-21683-18
MG35 SB123	280-21683-19
MG26 SB105	280-21683-20
MG24 SB101	280-21683-21
MG35 SB124	280-21683-22
MG35 SB125	280-21683-23
MG36 SB126	280-21683-24
MG36 SB127	280-21683-25
MG32 SB115	280-21683-26
MG32 SB116	280-21683-27
MG33 SB117	280-21683-28
MG33 SB119	280-21683-29
MG33 SB118	280-21683-30
MG34 SB121	280-21683-31
MG34 SB122	280-21683-32
MG31 SB113	280-21683-33
MG31 SB114	280-21683-34
MG30 SB111	280-21683-35
MG30 SB112	280-21683-36
MG29 SB109	280-21683-37
MG29 SB110	280-21683-38
MG06 SB062	280-21683-39
MG06 SB063	280-21683-40
MG06 SB064	280-21683-41
MG05 SB060	280-21683-42
MG05 SB061	280-21683-43
MG04 SB058	280-21683-44
MG04 SB059	280-21683-45

Comments:

COVER PAGE
METALS

Lab Name: TestAmerica Denver   Job Number: 280-21683-1

SDG No.:

Project: Martha's Vineyard RI

Client Sample ID	Lab Sample ID
MG03 SB056	280-21683-46
MG03 SB057	280-21683-47
MG02 SB054	280-21683-48
MG02 SB055	280-21683-49
MG15 SB081	280-21683-50
MG15 SB082	280-21683-51
MG12 SB073	280-21683-52
MG12 SB075	280-21683-53
MG12 SB074	280-21683-54
MG11 SB071	280-21683-55
MG11 SB072	280-21683-56
MG14 SB079	280-21683-57
MG14 SB080	280-21683-58
MG13 SB077	280-21683-59
MG13 SB078	280-21683-60
MG16 SB083	280-21683-61
MG16 SB084	280-21683-62
MG09 SB069	280-21683-63
MG09 SB070	280-21683-64
MG08 SB067	280-21683-65
MG08 SB068	280-21683-66
MG07 SB065	280-21683-67
MG07 SB066	280-21683-68
MG17 SB085	280-21683-69
MG17 SB086	280-21683-70
MG17 SB087	280-21683-71
MG18 SB088	280-21683-72
MG18 SB089	280-21683-73
CP01 IS01	280-21683-74
CP01 IS02	280-21683-75
CP01 IS03	280-21683-76
CP10 SB014	280-21683-77
CP10 SB015	280-21683-78
CP09 SB012	280-21683-79
CP09 SB013	280-21683-80
CP08 SB009	280-21683-81
CP08 SB010	280-21683-82
CP08 SB011	280-21683-83
CP11 SB16A	280-21683-84
CP11 SB16B	280-21683-85
CP07 SB007	280-21683-86
CP07 SB008	280-21683-87
CP04 SB001	280-21683-88
CP04 SB002	280-21683-89
CP06 SB005	280-21683-90

Comments:

COVER PAGE
METALS

Lab Name: TestAmerica Denver   Job Number: 280-21683-1

SDG No.:

Project: Martha's Vineyard RI

Client Sample ID	Lab Sample ID
CP06 SB006	280-21683-91
CP05 SB003	280-21683-92
CP05 SB004	280-21683-93
CP12 SB017	280-21683-94
CP12 SB018	280-21683-95

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG26 SB104

Lab Sample ID: 280-21683-1

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 09:46

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 85.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.027	0.22	0.044	0.015	mg/Kg	J	Q J	1	6020A
Copper	2.3	2.7	0.22	0.077	mg/Kg	J		1	6020A
Lead	6.1	0.11	0.054	0.020	mg/Kg			1	6020A
Nickel	2.5	0.38	0.082	0.028	mg/Kg			1	6020A
Zinc	9.3	2.7	0.98	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG19 IS016

Lab Sample ID: 280-21683-2

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/13/2011 13:15

Reporting Basis: WET

Date Received: 10/18/2011 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.040	0.19	0.038	0.0067	mg/Kg	J	Q	1	6020A
Copper	3.7	2.4	0.19	0.034	mg/Kg			1	6020A
Lead	14	0.095	0.048	0.0087	mg/Kg			1	6020A
Nickel	2.6	0.33	0.071	0.012	mg/Kg			1	6020A
Zinc	13	2.4	0.86	0.15	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG19 IS017

Lab Sample ID: 280-21683-3

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/13/2011 16:53

Reporting Basis: WET

Date Received: 10/18/2011 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.034	0.19	0.038	0.0066	mg/Kg	J	Q	1	6020A
Copper	3.4	2.4	0.19	0.034	mg/Kg			1	6020A
Lead	12	0.095	0.047	0.0086	mg/Kg			1	6020A
Nickel	2.5	0.33	0.071	0.012	mg/Kg			1	6020A
Zinc	12	2.4	0.85	0.15	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG19 IS018

Lab Sample ID: 280-21683-4

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 09:45

Reporting Basis: WET

Date Received: 10/18/2011 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.043	0.20	0.039	0.0068	mg/Kg	J	Q	1	6020A
Copper	3.9	2.4	0.20	0.035	mg/Kg			1	6020A
Lead	11	0.098	0.049	0.0089	mg/Kg			1	6020A
Nickel	2.6	0.34	0.073	0.012	mg/Kg			1	6020A
Zinc	15	2.4	0.88	0.15	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG20 SB090

Lab Sample ID: 280-21683-5

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/13/2011 15:55

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 81.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.025	0.23	0.047	0.016	mg/Kg	J	Q	1	6020A
Copper	2.3	2.9	0.23	0.083	mg/Kg	J		1	6020A
Lead	4.7	0.12	0.058	0.021	mg/Kg			1	6020A
Nickel	1.8	0.41	0.087	0.029	mg/Kg			1	6020A
Zinc	6.5	2.7	0.98	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG20 SB091

Lab Sample ID: 280-21683-6

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/13/2011 16:25

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 85.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.023	0.21	0.041	0.014	mg/Kg	J	Q	1	6020A
Copper	2.2	2.6	0.21	0.073	mg/Kg	J		1	6020A
Lead	4.5	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	2.9	0.36	0.077	0.026	mg/Kg			1	6020A
Zinc	8.0	2.6	0.92	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG22 SB094

Lab Sample ID: 280-21683-7

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/13/2011 16:46

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 91.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.022	0.20	0.041	0.014	mg/Kg	J	Q	1	6020A
Copper	2.1	2.5	0.20	0.072	mg/Kg	J		1	6020A
Lead	4.5	0.10	0.051	0.019	mg/Kg			1	6020A
Nickel	2.4	0.36	0.076	0.026	mg/Kg			1	6020A
Zinc	7.6	2.3	0.82	0.29	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG22 SB095

Lab Sample ID: 280-21683-8

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/13/2011 16:57

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 81.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.020	0.24	0.047	0.016	mg/Kg	J	Q	1	6020A
Copper	2.2	2.9	0.24	0.084	mg/Kg	J		1	6020A
Lead	4.0	0.12	0.059	0.021	mg/Kg			1	6020A
Nickel	3.1	0.41	0.088	0.030	mg/Kg			1	6020A
Zinc	6.4	2.6	0.95	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG22 SB096

Lab Sample ID: 280-21683-9

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/13/2011 16:46

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 91.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.023	0.21	0.043	0.015	mg/Kg	J	Q	1	6020A
Copper	2.1	2.7	0.21	0.076	mg/Kg	J		1	6020A
Lead	4.8	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	2.2	0.37	0.080	0.027	mg/Kg			1	6020A
Zinc	7.0	2.5	0.90	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG27 SB107

Lab Sample ID: 280-21683-10

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 10:17

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 87.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.023	0.23	0.046	0.016	mg/Kg	J	Q	1	6020A
Copper	1.2	2.9	0.23	0.081	mg/Kg	J		1	6020A
Lead	3.8	0.11	0.057	0.021	mg/Kg			1	6020A
Nickel	2.7	0.40	0.086	0.029	mg/Kg			1	6020A
Zinc	6.1	2.5	0.91	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG27 SB106

Lab Sample ID: 280-21683-11

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 10:09

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 81.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.025	0.22	0.043	0.015	mg/Kg	J	Q	1	6020A
Copper	1.5	2.7	0.22	0.077	mg/Kg	J		1	6020A
Lead	6.0	0.11	0.054	0.020	mg/Kg			1	6020A
Nickel	1.4	0.38	0.081	0.027	mg/Kg			1	6020A
Zinc	5.6	2.8	1.0	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG25 SB102

Lab Sample ID: 280-21683-12

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 10:29

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 90.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.031	0.20	0.040	0.014	mg/Kg	J	Q	1	6020A
Copper	3.3	2.5	0.20	0.071	mg/Kg			1	6020A
Lead	5.4	0.099	0.050	0.018	mg/Kg			1	6020A
Nickel	2.9	0.35	0.075	0.025	mg/Kg			1	6020A
Zinc	8.0	2.7	0.98	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG23 SB099

Lab Sample ID: 280-21683-13

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 08:58

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 93.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.020	0.21	0.043	0.015	mg/Kg	J	Q	1	6020A
Copper	1.9	2.7	0.21	0.076	mg/Kg	J		1	6020A
Lead	3.7	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	2.3	0.37	0.080	0.027	mg/Kg			1	6020A
Zinc	17	2.4	0.86	0.30	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG25 SB103

Lab Sample ID: 280-21683-14

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 10:33

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 85.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.023	0.20	0.040	0.014	mg/Kg	J	Q	1	6020A
Copper	2.0	2.5	0.20	0.072	mg/Kg	J		1	6020A
Lead	4.3	0.10	0.051	0.018	mg/Kg			1	6020A
Nickel	1.9	0.35	0.076	0.026	mg/Kg			1	6020A
Zinc	6.2	2.7	0.96	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG23 SB098

Lab Sample ID: 280-21683-15

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 08:45

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 95.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.023	0.20	0.041	0.014	mg/Kg	J	Q	1	6020A
Copper	2.3	2.5	0.20	0.072	mg/Kg	J		1	6020A
Lead	4.7	0.10	0.051	0.019	mg/Kg			1	6020A
Nickel	2.5	0.36	0.076	0.026	mg/Kg			1	6020A
Zinc	7.2	2.5	0.92	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG21 SB093

Lab Sample ID: 280-21683-16

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 09:11

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 95.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.022	0.21	0.042	0.015	mg/Kg	J	Q	1	6020A
Copper	2.5	2.6	0.21	0.074	mg/Kg	J		1	6020A
Lead	2.9	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	1.9	0.36	0.078	0.026	mg/Kg			1	6020A
Zinc	6.3	2.5	0.88	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG24 SB100

Lab Sample ID: 280-21683-17

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 09:27

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 96.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.026	0.19	0.037	0.013	mg/Kg	J	Q	1	6020A
Copper	3.2	2.3	0.19	0.067	mg/Kg			1	6020A
Lead	5.8	0.094	0.047	0.017	mg/Kg			1	6020A
Nickel	3.0	0.33	0.070	0.024	mg/Kg			1	6020A
Zinc	11	2.5	0.90	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG21 SB092

Lab Sample ID: 280-21683-18

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 09:05

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 93.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.023	0.21	0.041	0.015	mg/Kg	J	Q	1	6020A
Copper	2.4	2.6	0.21	0.074	mg/Kg	J		1	6020A
Lead	4.1	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	2.2	0.36	0.078	0.026	mg/Kg			1	6020A
Zinc	8.3	2.6	0.92	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG35 SB123

Lab Sample ID: 280-21683-19

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 10:29

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 88.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.026	0.22	0.043	0.015	mg/Kg	J	Q	1	6020A
Copper	3.8	2.7	0.22	0.076	mg/Kg			1	6020A
Lead	6.4	0.11	0.054	0.020	mg/Kg			1	6020A
Nickel	3.4	0.38	0.081	0.027	mg/Kg			1	6020A
Zinc	10	2.8	1.0	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG26 SB105

Lab Sample ID: 280-21683-20

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 09:52

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 88.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.024	0.22	0.043	0.015	mg/Kg	J	Q	1	6020A
Copper	1.4	2.7	0.22	0.077	mg/Kg	J		1	6020A
Lead	3.8	0.11	0.054	0.020	mg/Kg			1	6020A
Nickel	3.1	0.38	0.081	0.027	mg/Kg			1	6020A
Zinc	6.6	2.8	1.0	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG24 SB101

Lab Sample ID: 280-21683-21

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 09:33

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 94.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.018	0.20	0.039	0.014	mg/Kg	J	Q J	1	6020A
Copper	2.2	2.5	0.20	0.070	mg/Kg	J		1	6020A
Lead	3.3	0.099	0.049	0.018	mg/Kg			1	6020A
Nickel	3.4	0.35	0.074	0.025	mg/Kg			1	6020A
Zinc	9.2	2.5	0.89	0.31	mg/Kg		J	1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG35 SB124

Lab Sample ID: 280-21683-22

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 11:30

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 88.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.014	0.19	0.038	0.013	mg/Kg	J	Q	1	6020A
Copper	2.4	2.4	0.19	0.068	mg/Kg			1	6020A
Lead	3.5	0.096	0.048	0.017	mg/Kg			1	6020A
Nickel	3.8	0.33	0.072	0.024	mg/Kg			1	6020A
Zinc	9.1	2.4	0.86	0.30	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG35 SB125

Lab Sample ID: 280-21683-23

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 11:30

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 88.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.045	0.22	0.045	0.016	mg/Kg	U	Q	1	6020A
Copper	2.8	2.8	0.22	0.080	mg/Kg			1	6020A
Lead	4.0	0.11	0.056	0.020	mg/Kg			1	6020A
Nickel	3.8	0.39	0.084	0.028	mg/Kg			1	6020A
Zinc	9.7	2.8	1.0	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG36 SB126

Lab Sample ID: 280-21683-24

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 11:46

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 89.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.014	0.20	0.040	0.014	mg/Kg	J	Q	1	6020A
Copper	4.0	2.5	0.20	0.071	mg/Kg			1	6020A
Lead	4.1	0.10	0.050	0.018	mg/Kg			1	6020A
Nickel	4.4	0.35	0.075	0.025	mg/Kg			1	6020A
Zinc	14	2.5	0.90	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG36 SB127

Lab Sample ID: 280-21683-25

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 11:56

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 87.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.045	0.23	0.045	0.016	mg/Kg	U	Q	1	6020A
Copper	2.2	2.8	0.23	0.081	mg/Kg	J		1	6020A
Lead	3.8	0.11	0.057	0.021	mg/Kg			1	6020A
Nickel	2.8	0.40	0.085	0.029	mg/Kg			1	6020A
Zinc	8.5	2.8	1.0	0.36	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG32 SB115

Lab Sample ID: 280-21683-26

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 14:10

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 86.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.044	0.22	0.044	0.015	mg/Kg	U	Q	1	6020A
Copper	1.8	2.8	0.22	0.079	mg/Kg	J		1	6020A
Lead	16	0.11	0.055	0.020	mg/Kg			1	6020A
Nickel	2.2	0.39	0.083	0.028	mg/Kg			1	6020A
Zinc	7.8	2.8	1.0	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG32 SB116

Lab Sample ID: 280-21683-27

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/14/2011 14:20

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 82.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	1.7	2.6	0.21	0.075	mg/Kg	J		1	6020A
Lead	4.4	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	3.5	0.37	0.079	0.027	mg/Kg			1	6020A
Zinc	9.5	2.6	0.95	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG33 SB117

Lab Sample ID: 280-21683-28

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 08:41

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 85.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.015	0.22	0.044	0.015	mg/Kg	J	Q	1	6020A
Copper	3.6	2.7	0.22	0.078	mg/Kg			1	6020A
Lead	5.6	0.11	0.055	0.020	mg/Kg			1	6020A
Nickel	3.5	0.38	0.082	0.028	mg/Kg			1	6020A
Zinc	12	2.7	0.99	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG33 SB119

Lab Sample ID: 280-21683-29

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 08:41

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 86.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.014	0.20	0.041	0.014	mg/Kg	J	Q	1	6020A
Copper	3.7	2.5	0.20	0.072	mg/Kg			1	6020A
Lead	6.0	0.10	0.051	0.019	mg/Kg			1	6020A
Nickel	4.8	0.36	0.076	0.026	mg/Kg			1	6020A
Zinc	12	2.5	0.92	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG33 SB118

Lab Sample ID: 280-21683-30

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 08:53

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 89.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.039	0.20	0.039	0.014	mg/Kg	U	Q	1	6020A
Copper	2.1	2.5	0.20	0.070	mg/Kg	J		1	6020A
Lead	4.0	0.099	0.049	0.018	mg/Kg			1	6020A
Nickel	3.7	0.35	0.074	0.025	mg/Kg			1	6020A
Zinc	12	2.5	0.89	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG34 SB121 Lab Sample ID: 280-21683-31

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG ID.:

Matrix: Solid Date Sampled: 10/15/2011 09:06

Reporting Basis: DRY Date Received: 10/18/2011 09:00

% Solids: 91.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	4.3	2.7	0.21	0.075	mg/Kg			1	6020A
Lead	4.3	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	6.2	0.37	0.080	0.027	mg/Kg			1	6020A
Zinc	17	2.7	0.96	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG34 SB122

Lab Sample ID: 280-21683-32

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 09:15

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 92.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.015	0.19	0.037	0.013	mg/Kg	J	Q	1	6020A
Copper	4.3	2.3	0.19	0.067	mg/Kg			1	6020A
Lead	5.7	0.094	0.047	0.017	mg/Kg			1	6020A
Nickel	6.6	0.33	0.070	0.024	mg/Kg			1	6020A
Zinc	13	2.3	0.84	0.30	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG31 SB113

Lab Sample ID: 280-21683-33

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 09:26

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 90.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.040	0.20	0.040	0.014	mg/Kg	U	Q	1	6020A
Copper	3.5	2.5	0.20	0.070	mg/Kg			1	6020A
Lead	3.7	0.099	0.049	0.018	mg/Kg			1	6020A
Nickel	3.5	0.35	0.074	0.025	mg/Kg			1	6020A
Zinc	10	2.5	0.89	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG31 SB114

Lab Sample ID: 280-21683-34

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 09:33

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 91.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	3.3	2.7	0.21	0.075	mg/Kg			1	6020A
Lead	4.1	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	4.8	0.37	0.080	0.027	mg/Kg			1	6020A
Zinc	12	2.7	0.95	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG30 SB111

Lab Sample ID: 280-21683-35

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 09:45

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 89.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.015	0.20	0.040	0.014	mg/Kg	J	Q	1	6020A
Copper	4.0	2.5	0.20	0.070	mg/Kg			1	6020A
Lead	5.4	0.099	0.050	0.018	mg/Kg			1	6020A
Nickel	3.3	0.35	0.074	0.025	mg/Kg			1	6020A
Zinc	10	2.5	0.89	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG30 SB112

Lab Sample ID: 280-21683-36

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 09:51

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 92.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.014	0.21	0.041	0.014	mg/Kg	J	Q	1	6020A
Copper	4.3	2.6	0.21	0.073	mg/Kg			1	6020A
Lead	4.5	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	4.7	0.36	0.077	0.026	mg/Kg			1	6020A
Zinc	13	2.6	0.93	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG29 SB109

Lab Sample ID: 280-21683-37

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 10:00

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 89.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.018	0.20	0.041	0.014	mg/Kg	J	Q	1	6020A
Copper	3.6	2.5	0.20	0.072	mg/Kg			1	6020A
Lead	5.4	0.10	0.051	0.018	mg/Kg			1	6020A
Nickel	2.9	0.36	0.076	0.026	mg/Kg			1	6020A
Zinc	13	2.5	0.91	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG29 SB110

Lab Sample ID: 280-21683-38

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 10:05

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 88.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.014	0.20	0.039	0.014	mg/Kg	J	Q	1	6020A
Copper	2.5	2.4	0.20	0.070	mg/Kg			1	6020A
Lead	4.0	0.098	0.049	0.018	mg/Kg			1	6020A
Nickel	3.3	0.34	0.073	0.025	mg/Kg			1	6020A
Zinc	9.0	2.4	0.88	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG06 SB062

Lab Sample ID: 280-21683-39

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 13:11

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 88.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.015	0.19	0.038	0.013	mg/Kg	J	Q	1	6020A
Copper	2.1	2.4	0.19	0.068	mg/Kg	J		1	6020A
Lead	7.0	0.095	0.048	0.017	mg/Kg			1	6020A
Nickel	2.5	0.33	0.072	0.024	mg/Kg			1	6020A
Zinc	9.3	2.4	0.86	0.30	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG06 SB063 | Lab Sample ID: 280-21683-40

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG ID.:

Matrix: Solid | Date Sampled: 10/15/2011 13:16

Reporting Basis: DRY | Date Received: 10/18/2011 09:00

% Solids: 91.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.015	0.21	0.042	0.015	mg/Kg	J	Q	1	6020A
Copper	3.3	2.6	0.21	0.075	mg/Kg			1	6020A
Lead	4.6	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	3.2	0.37	0.079	0.027	mg/Kg			1	6020A
Zinc	12	2.6	0.95	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG06 SB064

Lab Sample ID: 280-21683-41

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 13:16

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 91.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.024	0.20	0.040	0.014	mg/Kg	J	Q J	1	6020A
Copper	3.2	2.5	0.20	0.071	mg/Kg			1	6020A
Lead	4.9	0.099	0.050	0.018	mg/Kg			1	6020A
Nickel	3.0	0.35	0.075	0.025	mg/Kg			1	6020A
Zinc	10	2.5	0.89	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG05 SB060

Lab Sample ID: 280-21683-42

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 13:28

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 88.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.022	0.21	0.043	0.015	mg/Kg	J	Q	1	6020A
Copper	3.1	2.7	0.21	0.076	mg/Kg			1	6020A
Lead	6.0	0.11	0.054	0.020	mg/Kg			1	6020A
Nickel	2.3	0.38	0.080	0.027	mg/Kg			1	6020A
Zinc	14	2.7	0.97	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG05 SB061

Lab Sample ID: 280-21683-43

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 13:30

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 94.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.016	0.20	0.040	0.014	mg/Kg	J	Q	1	6020A
Copper	2.6	2.5	0.20	0.072	mg/Kg			1	6020A
Lead	2.6	0.10	0.050	0.018	mg/Kg			1	6020A
Nickel	1.8	0.35	0.076	0.026	mg/Kg			1	6020A
Zinc	7.1	2.5	0.91	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG04 SB058

Lab Sample ID: 280-21683-44

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 13:39

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 89.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.017	0.19	0.038	0.013	mg/Kg	J	Q	1	6020A
Copper	1.6	2.4	0.19	0.068	mg/Kg	J		1	6020A
Lead	5.2	0.095	0.048	0.017	mg/Kg			1	6020A
Nickel	1.2	0.33	0.071	0.024	mg/Kg			1	6020A
Zinc	5.0	2.4	0.86	0.30	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG04 SB059

Lab Sample ID: 280-21683-45

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 13:41

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 94.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.013	0.18	0.035	0.012	mg/Kg	J	Q	1	6020A
Copper	3.1	2.2	0.18	0.062	mg/Kg			1	6020A
Lead	3.0	0.088	0.044	0.016	mg/Kg			1	6020A
Nickel	3.1	0.31	0.066	0.022	mg/Kg			1	6020A
Zinc	10	2.2	0.79	0.28	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG03 SB056

Lab Sample ID: 280-21683-46

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 13:51

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 90.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.015	0.19	0.038	0.013	mg/Kg	J	Q	1	6020A
Copper	2.9	2.4	0.19	0.068	mg/Kg			1	6020A
Lead	6.8	0.096	0.048	0.017	mg/Kg			1	6020A
Nickel	2.5	0.34	0.072	0.024	mg/Kg			1	6020A
Zinc	9.5	2.4	0.86	0.30	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG03 SB057

Lab Sample ID: 280-21683-47

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 13:53

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 95.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.040	0.20	0.040	0.014	mg/Kg	U	Q	1	6020A
Copper	3.2	2.5	0.20	0.072	mg/Kg			1	6020A
Lead	3.0	0.10	0.051	0.018	mg/Kg			1	6020A
Nickel	2.8	0.35	0.076	0.026	mg/Kg			1	6020A
Zinc	9.5	2.5	0.91	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG02 SB054

Lab Sample ID: 280-21683-48

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 14:04

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 92.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.041	0.21	0.041	0.014	mg/Kg	U	Q	1	6020A
Copper	2.5	2.6	0.21	0.073	mg/Kg	J		1	6020A
Lead	3.8	0.10	0.051	0.019	mg/Kg			1	6020A
Nickel	2.4	0.36	0.077	0.026	mg/Kg			1	6020A
Zinc	8.6	2.6	0.93	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG02 SB055

Lab Sample ID: 280-21683-49

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 14:06

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 94.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.038	0.19	0.038	0.013	mg/Kg	U	Q	1	6020A
Copper	4.1	2.4	0.19	0.068	mg/Kg			1	6020A
Lead	2.5	0.095	0.048	0.017	mg/Kg			1	6020A
Nickel	3.9	0.33	0.072	0.024	mg/Kg			1	6020A
Zinc	18	2.4	0.86	0.30	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG15 SB081

Lab Sample ID: 280-21683-50

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 14:19

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 93.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.013	0.18	0.036	0.013	mg/Kg	J	Q	1	6020A
Copper	2.5	2.2	0.18	0.064	mg/Kg			1	6020A
Lead	7.9	0.090	0.045	0.016	mg/Kg			1	6020A
Nickel	2.2	0.31	0.067	0.023	mg/Kg			1	6020A
Zinc	9.1	2.2	0.81	0.28	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG15 SB082

Lab Sample ID: 280-21683-51

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 14:22

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 89.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.015	0.21	0.042	0.015	mg/Kg	J	Q	1	6020A
Copper	2.2	2.6	0.21	0.075	mg/Kg	J		1	6020A
Lead	9.8	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	2.3	0.37	0.079	0.027	mg/Kg			1	6020A
Zinc	7.1	2.6	0.94	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG12 SB073

Lab Sample ID: 280-21683-52

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 14:40

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 91.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.017	0.18	0.036	0.013	mg/Kg	J	Q	1	6020A
Copper	1.8	2.3	0.18	0.065	mg/Kg	J		1	6020A
Lead	8.4	0.091	0.046	0.017	mg/Kg			1	6020A
Nickel	2.3	0.32	0.068	0.023	mg/Kg			1	6020A
Zinc	8.1	2.3	0.82	0.29	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG12 SB075

Lab Sample ID: 280-21683-53

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 14:40

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 92.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.017	0.20	0.039	0.014	mg/Kg	J	Q	1	6020A
Copper	1.7	2.5	0.20	0.070	mg/Kg	J		1	6020A
Lead	7.9	0.098	0.049	0.018	mg/Kg			1	6020A
Nickel	2.0	0.34	0.074	0.025	mg/Kg			1	6020A
Zinc	7.9	2.5	0.88	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG12 SB074

Lab Sample ID: 280-21683-54

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 14:43

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 93.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	2.1	2.6	0.21	0.074	mg/Kg	J		1	6020A
Lead	3.8	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	3.9	0.37	0.078	0.026	mg/Kg			1	6020A
Zinc	10	2.6	0.94	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG11 SB071

Lab Sample ID: 280-21683-55

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 14:55

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 90.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.015	0.20	0.041	0.014	mg/Kg	J	Q	1	6020A
Copper	2.6	2.5	0.20	0.073	mg/Kg			1	6020A
Lead	4.2	0.10	0.051	0.019	mg/Kg			1	6020A
Nickel	3.0	0.36	0.076	0.026	mg/Kg			1	6020A
Zinc	11	2.5	0.92	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG11 SB072

Lab Sample ID: 280-21683-56

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 14:57

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 91.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.040	0.20	0.040	0.014	mg/Kg	U	Q	1	6020A
Copper	2.0	2.5	0.20	0.072	mg/Kg	J		1	6020A
Lead	3.7	0.10	0.050	0.018	mg/Kg			1	6020A
Nickel	3.4	0.35	0.075	0.025	mg/Kg			1	6020A
Zinc	8.7	2.5	0.91	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG14 SB079

Lab Sample ID: 280-21683-57

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 15:12

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 87.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.015	0.22	0.044	0.015	mg/Kg	J	Q	1	6020A
Copper	2.2	2.8	0.22	0.079	mg/Kg	J		1	6020A
Lead	7.2	0.11	0.055	0.020	mg/Kg			1	6020A
Nickel	1.8	0.39	0.083	0.028	mg/Kg			1	6020A
Zinc	7.4	2.8	1.0	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG14 SB080

Lab Sample ID: 280-21683-58

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 15:15

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 88.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.043	0.22	0.043	0.015	mg/Kg	U	Q	1	6020A
Copper	2.3	2.7	0.22	0.077	mg/Kg	J		1	6020A
Lead	5.5	0.11	0.054	0.020	mg/Kg			1	6020A
Nickel	3.0	0.38	0.081	0.027	mg/Kg			1	6020A
Zinc	14	2.7	0.98	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG13 SB077

Lab Sample ID: 280-21683-59

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 15:24

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 90.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.016	0.21	0.042	0.015	mg/Kg	J	Q	1	6020A
Copper	2.8	2.6	0.21	0.075	mg/Kg			1	6020A
Lead	4.8	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	3.0	0.37	0.079	0.027	mg/Kg			1	6020A
Zinc	11	2.6	0.94	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG13 SB078

Lab Sample ID: 280-21683-60

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 15:26

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 91.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	2.7	2.6	0.21	0.075	mg/Kg			1	6020A
Lead	4.4	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	3.0	0.37	0.079	0.027	mg/Kg			1	6020A
Zinc	9.8	2.6	0.95	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG16 SB083

Lab Sample ID: 280-21683-61

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 15:37

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 87.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.025	0.20	0.041	0.014	mg/Kg	J	Q J	1	6020A
Copper	2.1	2.5	0.20	0.072	mg/Kg	J		1	6020A
Lead	8.3	0.10	0.051	0.019	mg/Kg			1	6020A
Nickel	2.1	0.36	0.076	0.026	mg/Kg			1	6020A
Zinc	6.2	2.5	0.92	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG16 SB084

Lab Sample ID: 280-21683-62

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 15:40

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 89.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.040	0.20	0.040	0.014	mg/Kg	U	Q	1	6020A
Copper	1.2	2.5	0.20	0.070	mg/Kg	J		1	6020A
Lead	3.0	0.099	0.049	0.018	mg/Kg			1	6020A
Nickel	1.6	0.35	0.074	0.025	mg/Kg			1	6020A
Zinc	4.7	2.5	0.89	0.31	mg/Kg			1	6020A

INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG09 SB069

Lab Sample ID: 280-21683-63

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 16:01

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 91.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.018	0.21	0.042	0.015	mg/Kg	J	Q	1	6020A
Copper	2.6	2.6	0.21	0.074	mg/Kg			1	6020A
Lead	4.3	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	2.2	0.36	0.078	0.026	mg/Kg			1	6020A
Zinc	8.0	2.6	0.93	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG09 SB070

Lab Sample ID: 280-21683-64

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 16:03

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 92.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.040	0.20	0.040	0.014	mg/Kg	U	Q	1	6020A
Copper	2.5	2.5	0.20	0.072	mg/Kg			1	6020A
Lead	3.6	0.10	0.050	0.018	mg/Kg			1	6020A
Nickel	2.5	0.35	0.075	0.025	mg/Kg			1	6020A
Zinc	7.5	2.5	0.91	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG08 SB067

Lab Sample ID: 280-21683-65

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 16:14

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 94.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.019	0.20	0.039	0.014	mg/Kg	J	Q	1	6020A
Copper	5.4	2.5	0.20	0.070	mg/Kg			1	6020A
Lead	8.1	0.099	0.049	0.018	mg/Kg			1	6020A
Nickel	4.0	0.35	0.074	0.025	mg/Kg			1	6020A
Zinc	13	2.5	0.89	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG08 SB068

Lab Sample ID: 280-21683-66

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 16:17

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 94.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.014	0.18	0.037	0.013	mg/Kg	J	Q	1	6020A
Copper	3.7	2.3	0.18	0.065	mg/Kg			1	6020A
Lead	3.0	0.092	0.046	0.017	mg/Kg			1	6020A
Nickel	3.4	0.32	0.069	0.023	mg/Kg			1	6020A
Zinc	9.5	2.3	0.83	0.29	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG07 SB065 | Lab Sample ID: 280-21683-67

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG ID.:

Matrix: Solid | Date Sampled: 10/15/2011 16:28

Reporting Basis: DRY | Date Received: 10/18/2011 09:00

% Solids: 91.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.016	0.20	0.040	0.014	mg/Kg	J	Q	1	6020A
Copper	2.2	2.5	0.20	0.071	mg/Kg	J		1	6020A
Lead	6.3	0.099	0.050	0.018	mg/Kg			1	6020A
Nickel	1.7	0.35	0.074	0.025	mg/Kg			1	6020A
Zinc	6.8	2.5	0.89	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG07 SB066

Lab Sample ID: 280-21683-68

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 16:29

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 95.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.013	0.18	0.037	0.013	mg/Kg	J	Q	1	6020A
Copper	2.5	2.3	0.18	0.066	mg/Kg			1	6020A
Lead	3.5	0.092	0.046	0.017	mg/Kg			1	6020A
Nickel	2.5	0.32	0.069	0.023	mg/Kg			1	6020A
Zinc	7.5	2.3	0.83	0.29	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG17 SB085

Lab Sample ID: 280-21683-69

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 16:41

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 95.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.013	0.18	0.036	0.013	mg/Kg	J	Q	1	6020A
Copper	2.7	2.3	0.18	0.065	mg/Kg			1	6020A
Lead	5.1	0.091	0.046	0.017	mg/Kg			1	6020A
Nickel	3.2	0.32	0.068	0.023	mg/Kg			1	6020A
Zinc	14	2.3	0.82	0.29	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG17 SB086

Lab Sample ID: 280-21683-70

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 16:43

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 94.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.040	0.20	0.040	0.014	mg/Kg	U	Q	1	6020A
Copper	1.9	2.5	0.20	0.071	mg/Kg	J		1	6020A
Lead	6.5	0.10	0.050	0.018	mg/Kg			1	6020A
Nickel	2.7	0.35	0.075	0.025	mg/Kg			1	6020A
Zinc	7.1	2.5	0.90	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG17 SB087

Lab Sample ID: 280-21683-71

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 16:43

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 94.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.039	0.20	0.039	0.014	mg/Kg	U	Q	1	6020A
Copper	2.2	2.5	0.20	0.070	mg/Kg	J		1	6020A
Lead	6.6	0.099	0.049	0.018	mg/Kg			1	6020A
Nickel	2.9	0.35	0.074	0.025	mg/Kg			1	6020A
Zinc	8.2	2.5	0.89	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG18 SB088

Lab Sample ID: 280-21683-72

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 16:56

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 89.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.015	0.21	0.042	0.015	mg/Kg	J	Q	1	6020A
Copper	2.4	2.6	0.21	0.075	mg/Kg	J		1	6020A
Lead	8.5	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	3.9	0.37	0.079	0.027	mg/Kg			1	6020A
Zinc	11	2.6	0.95	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG18 SB089

Lab Sample ID: 280-21683-73

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/15/2011 16:58

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 91.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.043	0.22	0.043	0.015	mg/Kg	U	Q	1	6020A
Copper	1.4	2.7	0.22	0.076	mg/Kg	J		1	6020A
Lead	3.9	0.11	0.054	0.020	mg/Kg			1	6020A
Nickel	3.5	0.38	0.081	0.027	mg/Kg			1	6020A
Zinc	7.8	2.7	0.97	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP01 IS01

Lab Sample ID: 280-21683-74

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 11:50

Reporting Basis: WET

Date Received: 10/18/2011 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.057	0.19	0.039	0.0068	mg/Kg	J	Q	1	6020A
Copper	2.7	2.4	0.19	0.034	mg/Kg			1	6020A
Lead	22	0.097	0.048	0.0088	mg/Kg			1	6020A
Nickel	1.5	0.34	0.073	0.012	mg/Kg			1	6020A
Zinc	11	2.4	0.87	0.15	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP01 IS02

Lab Sample ID: 280-21683-75

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 13:21

Reporting Basis: WET

Date Received: 10/18/2011 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.083	0.19	0.038	0.0066	mg/Kg	J	Q	1	6020A
Copper	2.3	2.3	0.19	0.033	mg/Kg			1	6020A
Lead	25	0.094	0.047	0.0086	mg/Kg			1	6020A
Nickel	1.6	0.33	0.070	0.012	mg/Kg			1	6020A
Zinc	13	2.3	0.85	0.15	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP01 IS03

Lab Sample ID: 280-21683-76

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 14:32

Reporting Basis: WET

Date Received: 10/18/2011 09:00

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.028	0.19	0.038	0.0067	mg/Kg	J	Q J	1	6020A
Copper	2.4	2.4	0.19	0.034	mg/Kg			1	6020A
Lead	14	0.096	0.048	0.0087	mg/Kg			1	6020A
Nickel	1.5	0.33	0.072	0.012	mg/Kg			1	6020A
Zinc	10	2.4	0.86	0.15	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP10 SB014

Lab Sample ID: 280-21683-77

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 11:20

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 87.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.020	0.20	0.040	0.014	mg/Kg	J	Q	1	6020A
Copper	1.4	2.5	0.20	0.071	mg/Kg	J		1	6020A
Lead	7.5	0.10	0.050	0.018	mg/Kg			1	6020A
Nickel	1.8	0.35	0.075	0.025	mg/Kg			1	6020A
Zinc	9.7	2.5	0.90	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP10 SB015

Lab Sample ID: 280-21683-78

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 11:24

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 88.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.016	0.22	0.043	0.015	mg/Kg	J	Q	1	6020A
Copper	1.3	2.7	0.22	0.077	mg/Kg	J		1	6020A
Lead	4.9	0.11	0.054	0.020	mg/Kg			1	6020A
Nickel	2.2	0.38	0.081	0.027	mg/Kg			1	6020A
Zinc	10	2.7	0.97	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP09 SB012

Lab Sample ID: 280-21683-79

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 11:40

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 85.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.040	0.20	0.040	0.014	mg/Kg	U	Q	1	6020A
Copper	0.98	2.5	0.20	0.071	mg/Kg	J		1	6020A
Lead	14	0.10	0.050	0.018	mg/Kg			1	6020A
Nickel	1.3	0.35	0.075	0.025	mg/Kg			1	6020A
Zinc	7.3	2.5	0.90	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP09 SB013

Lab Sample ID: 280-21683-80

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 11:42

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 88.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.039	0.19	0.039	0.014	mg/Kg	U	Q	1	6020A
Copper	0.85	2.4	0.19	0.069	mg/Kg	J		1	6020A
Lead	4.7	0.097	0.049	0.018	mg/Kg			1	6020A
Nickel	1.8	0.34	0.073	0.025	mg/Kg			1	6020A
Zinc	7.5	2.4	0.87	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP08 SB009

Lab Sample ID: 280-21683-81

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 11:55

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 87.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.018	0.20	0.039	0.014	mg/Kg	J	Q J	1	6020A
Copper	1.2	2.4	0.20	0.069	mg/Kg	J		1	6020A
Lead	7.8	0.098	0.049	0.018	mg/Kg			1	6020A
Nickel	1.7	0.34	0.073	0.025	mg/Kg			1	6020A
Zinc	8.1	2.4	0.88	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP08 SB010

Lab Sample ID: 280-21683-82

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 11:59

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 89.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.015	0.19	0.038	0.013	mg/Kg	J	Q	1	6020A
Copper	1.4	2.3	0.19	0.067	mg/Kg	J		1	6020A
Lead	7.0	0.094	0.047	0.017	mg/Kg			1	6020A
Nickel	2.2	0.33	0.070	0.024	mg/Kg			1	6020A
Zinc	11	2.3	0.85	0.30	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP08 SB011

Lab Sample ID: 280-21683-83

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 11:59

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 89.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.044	0.22	0.044	0.015	mg/Kg	U	Q	1	6020A
Copper	1.4	2.7	0.22	0.078	mg/Kg	J		1	6020A
Lead	6.8	0.11	0.055	0.020	mg/Kg			1	6020A
Nickel	2.1	0.38	0.082	0.028	mg/Kg			1	6020A
Zinc	11	2.7	0.98	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP11 SB16A

Lab Sample ID: 280-21683-84

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 12:41

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 87.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.39	0.23	0.045	0.016	mg/Kg		Q	1	6020A
Copper	2.1	2.8	0.23	0.080	mg/Kg	J		1	6020A
Lead	82	0.11	0.056	0.020	mg/Kg			1	6020A
Nickel	2.5	0.39	0.084	0.028	mg/Kg			1	6020A
Zinc	19	2.8	1.0	0.36	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP11 SB16B

Lab Sample ID: 280-21683-85

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 12:43

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 90.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.072	0.20	0.040	0.014	mg/Kg	J	Q	1	6020A
Copper	1.3	2.5	0.20	0.072	mg/Kg	J		1	6020A
Lead	17	0.10	0.051	0.018	mg/Kg			1	6020A
Nickel	2.8	0.35	0.076	0.026	mg/Kg			1	6020A
Zinc	11	2.5	0.91	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP07 SB007

Lab Sample ID: 280-21683-86

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 13:00

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 90.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	1.1	2.6	0.21	0.074	mg/Kg	J		1	6020A
Lead	6.5	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	1.4	0.37	0.079	0.027	mg/Kg			1	6020A
Zinc	7.8	2.6	0.94	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP07 SB008

Lab Sample ID: 280-21683-87

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 13:03

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 91.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	0.78	2.6	0.21	0.075	mg/Kg	J		1	6020A
Lead	2.9	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	1.6	0.37	0.079	0.027	mg/Kg			1	6020A
Zinc	7.3	2.6	0.95	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP04 SB001

Lab Sample ID: 280-21683-88

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 13:20

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 91.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.041	0.20	0.041	0.014	mg/Kg	U	Q	1	6020A
Copper	1.1	2.5	0.20	0.072	mg/Kg	J		1	6020A
Lead	6.1	0.10	0.051	0.018	mg/Kg			1	6020A
Nickel	0.83	0.36	0.076	0.026	mg/Kg			1	6020A
Zinc	5.1	2.5	0.91	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP04 SB002 | Lab Sample ID: 280-21683-89

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG ID.:

Matrix: Solid | Date Sampled: 10/16/2011 13:25

Reporting Basis: DRY | Date Received: 10/18/2011 09:00

% Solids: 93.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.036	0.18	0.036	0.013	mg/Kg	U	Q	1	6020A
Copper	0.66	2.2	0.18	0.064	mg/Kg	J		1	6020A
Lead	2.5	0.090	0.045	0.016	mg/Kg			1	6020A
Nickel	0.97	0.31	0.067	0.023	mg/Kg			1	6020A
Zinc	4.4	2.2	0.81	0.28	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP06 SB005

Lab Sample ID: 280-21683-90

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 13:40

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 90.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	1.2	2.6	0.21	0.075	mg/Kg	J		1	6020A
Lead	4.5	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	1.0	0.37	0.079	0.027	mg/Kg			1	6020A
Zinc	5.8	2.6	0.95	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP06 SB006

Lab Sample ID: 280-21683-91

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 13:43

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 92.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	0.75	2.6	0.21	0.074	mg/Kg	J		1	6020A
Lead	2.5	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	1.3	0.36	0.078	0.026	mg/Kg			1	6020A
Zinc	5.9	2.6	0.94	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP05 SB003 | Lab Sample ID: 280-21683-92

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG ID.:

Matrix: Solid | Date Sampled: 10/16/2011 14:01

Reporting Basis: DRY | Date Received: 10/18/2011 09:00

% Solids: 92.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.041	0.21	0.041	0.014	mg/Kg	U	Q	1	6020A
Copper	1.1	2.6	0.21	0.073	mg/Kg	J		1	6020A
Lead	5.2	0.10	0.051	0.019	mg/Kg			1	6020A
Nickel	0.84	0.36	0.077	0.026	mg/Kg			1	6020A
Zinc	7.0	2.6	0.92	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP05 SB004

Lab Sample ID: 280-21683-93

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 14:04

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 93.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	0.85	2.6	0.21	0.075	mg/Kg	J		1	6020A
Lead	2.4	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	0.94	0.37	0.079	0.027	mg/Kg			1	6020A
Zinc	5.7	2.6	0.95	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP12 SB017

Lab Sample ID: 280-21683-94

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 15:22

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 89.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.037	0.19	0.037	0.013	mg/Kg	U	Q	1	6020A
Copper	1.2	2.3	0.19	0.067	mg/Kg	J		1	6020A
Lead	21	0.094	0.047	0.017	mg/Kg			1	6020A
Nickel	1.6	0.33	0.070	0.024	mg/Kg			1	6020A
Zinc	6.0	2.3	0.84	0.30	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP12 SB018

Lab Sample ID: 280-21683-95

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/16/2011 15:25

Reporting Basis: DRY

Date Received: 10/18/2011 09:00

% Solids: 90.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.038	0.19	0.038	0.013	mg/Kg	U	Q	1	6020A
Copper	1.7	2.4	0.19	0.067	mg/Kg	J		1	6020A
Lead	6.6	0.095	0.047	0.017	mg/Kg			1	6020A
Nickel	4.4	0.33	0.071	0.024	mg/Kg			1	6020A
Zinc	9.9	2.4	0.85	0.30	mg/Kg			1	6020A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICV Source: MS ICV_00448   Concentration Units: ug/L

CCV Source: MS CCV_00449

Analyte	ICV 280-94332/4 11/01/2011 18:11				CCV 280-94332/14 11/01/2011 18:40				CCV 280-94332/17 11/01/2011 19:32			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	39.2		40.0	98	49.2		50.0	98	48.9		50.0	98
Copper	40.0		40.0	100	51.1		50.0	102	50.3		50.0	101
Lead	40.5		40.0	101	49.5		50.0	99	47.8		50.0	96
Nickel	40.6		40.0	101	49.6		50.0	99	49.0		50.0	98
Zinc	40.0		40.0	100	49.7		50.0	99	48.4		50.0	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICV Source: MS ICV_00448   Concentration Units: ug/L

CCV Source: MS CCV_00449

Analyte	CCV 280-94332/28 11/01/2011 20:04				CCV 280-94332/40 11/01/2011 20:39				CCV 280-94332/50 11/01/2011 21:08			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	51.6		50.0	103	51.9		50.0	104	52.5		50.0	105
Copper	50.2		50.0	100	49.2		50.0	98	50.2		50.0	100
Lead	47.7		50.0	95	47.4		50.0	95	48.1		50.0	96
Nickel	48.1		50.0	96	47.6		50.0	95	48.6		50.0	97
Zinc	51.0		50.0	102	50.7		50.0	101	51.5		50.0	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

ICV Source: MS ICV_00448 Concentration Units: ug/L

CCV Source: MS CCV_00449

Analyte	CCV 280-94332/62 11/01/2011 21:43				CCV 280-94332/75 11/01/2011 22:21				CCV 280-94332/86 11/01/2011 22:53			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	52.0		50.0	104	51.4		50.0	103	51.0		50.0	102
Copper	49.6		50.0	99	49.7		50.0	99	49.1		50.0	98
Lead	47.9		50.0	96	47.7		50.0	95	47.7		50.0	95
Nickel	48.1		50.0	96	47.6		50.0	95	47.7		50.0	95
Zinc	51.2		50.0	102	50.6		50.0	101	50.9		50.0	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICV Source: MS ICV_00448   Concentration Units: ug/L

CCV Source: MS CCV_00449

Analyte	CCV 280-94332/98 11/01/2011 23:28				CCV 280-94332/110 11/02/2011 00:03				CCV 280-94332/121 11/02/2011 00:35			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	51.7		50.0	103	51.4		50.0	103	51.8		50.0	104
Copper	49.6		50.0	99	49.4		50.0	99	49.5		50.0	99
Lead	48.3		50.0	97	48.1		50.0	96	48.9		50.0	98
Nickel	47.9		50.0	96	47.8		50.0	96	47.6		50.0	95
Zinc	51.1		50.0	102	51.1		50.0	102	50.9		50.0	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

ICV Source: MS ICV_00448 Concentration Units: ug/L

CCV Source: MS CCV_00449

Analyte	CCV 280-94332/132 11/02/2011 01:07				CCV 280-94332/143 11/02/2011 01:39				CCV 280-94332/153 11/02/2011 02:08			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	48.8		50.0	98	48.7		50.0	97	48.3		50.0	97
Copper	48.3		50.0	97	48.8		50.0	98	48.4		50.0	97
Lead	48.3		50.0	97	48.8		50.0	98	48.4		50.0	97
Nickel	48.7		50.0	97	48.8		50.0	98	48.4		50.0	97
Zinc	48.3		50.0	97	48.8		50.0	98	48.3		50.0	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICV Source: MS LCCV dly_00448   Concentration Units: ug/L

CCV Source: MS LCCV dly_00448

Analyte	ICVL 280-94332/5 11/01/2011 18:14				CCVL 280-94332/16 11/01/2011 18:46				CCVL 280-94332/19 11/01/2011 19:38			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.17		2.00	109	2.06		2.00	103	2.00		2.00	100
Copper	2.19		2.00	110	2.20		2.00	110	2.28		2.00	114
Lead	1.07		1.00	107	1.06		1.00	106	1.06		1.00	106
Nickel	2.16		2.00	108	2.13		2.00	106	2.04		2.00	102
Zinc	10.3		10.0	103	10.3		10.0	103	10.1		10.0	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

ICV Source: MS LCCV dly_00448 Concentration Units: ug/L

CCV Source: MS LCCV dly_00448

Analyte	CCVL 280-94332/30 11/01/2011 20:10				CCVL 280-94332/42 11/01/2011 20:45				CCVL 280-94332/52 11/01/2011 21:14			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.19		2.00	109	2.16		2.00	108	2.14		2.00	107
Copper	2.14		2.00	107	2.10		2.00	105	2.10		2.00	105
Lead	1.02		1.00	102	1.03		1.00	103	1.04		1.00	104
Nickel	2.02		2.00	101	2.03		2.00	102	2.03		2.00	102
Zinc	10.5		10.0	105	10.4		10.0	104	10.5		10.0	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICV Source: MS LCCV dly_00448   Concentration Units: ug/L

CCV Source: MS LCCV dly_00448

Analyte	CCVL 280-94332/64 11/01/2011 21:49				CCVL 280-94332/77 11/01/2011 22:27				CCVL 280-94332/88 11/01/2011 22:59			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.13		2.00	106	2.14		2.00	107	2.13		2.00	107
Copper	2.20		2.00	110	2.13		2.00	106	2.11		2.00	105
Lead	1.02		1.00	102	1.03		1.00	103	1.02		1.00	102
Nickel	2.04		2.00	102	2.09		2.00	104	2.06		2.00	103
Zinc	10.7		10.0	107	10.6		10.0	106	10.7		10.0	107

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

ICV Source: MS LCCV dly_00448 Concentration Units: ug/L

CCV Source: MS LCCV dly_00448

Analyte	CCVL 280-94332/100 11/01/2011 23:33				CCVL 280-94332/112 11/02/2011 00:08				CCVL 280-94332/123 11/02/2011 00:41			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.12		2.00	106	2.13		2.00	106	2.13		2.00	107
Copper	2.12		2.00	106	2.14		2.00	107	2.13		2.00	107
Lead	1.03		1.00	103	1.03		1.00	103	1.03		1.00	103
Nickel	2.07		2.00	104	2.06		2.00	103	2.08		2.00	104
Zinc	10.5		10.0	105	10.7		10.0	107	10.6		10.0	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICV Source: MS LCCV dly_00448   Concentration Units: ug/L

CCV Source: MS LCCV dly_00448

Analyte	CCVL 280-94332/134 11/02/2011 01:12				CCVL 280-94332/145 11/02/2011 01:45				CCVL 280-94332/155 11/02/2011 02:14			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.03		2.00	101	2.01		2.00	100	2.00		2.00	100
Copper	2.12		2.00	106	2.16		2.00	108	2.11		2.00	106
Lead	1.04		1.00	104	1.03		1.00	103	1.04		1.00	104
Nickel	2.03		2.00	101	2.08		2.00	104	2.05		2.00	103
Zinc	10.0		10.0	100	10.0		10.0	100	10.1		10.0	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICV Source: MS ICV_00449   Concentration Units: ug/L

CCV Source: MS CCV_00450

Analyte	ICV 280-94600/4 11/02/2011 22:05				CCV 280-94600/15 11/02/2011 22:38				CCV 280-94600/24 11/02/2011 23:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	38.0		40.0	95	48.1		50.0	96	48.0		50.0	96
Copper	39.4		40.0	99	49.1		50.0	98	50.9		50.0	102
Lead	40.7		40.0	102	50.5		50.0	101	49.7		50.0	99
Nickel	41.5		40.0	104	50.4		50.0	101	51.4		50.0	103
Zinc	39.8		40.0	99	49.7		50.0	99	49.9		50.0	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICV Source: MS ICV_00449   Concentration Units: ug/L

CCV Source: MS CCV_00450

Analyte	CCV 280-94600/33 11/02/2011 23:29				CCV 280-94600/45 11/03/2011 00:03				CCV 280-94600/56 11/03/2011 00:35			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	47.7		50.0	95	47.9		50.0	96	47.3		50.0	95
Copper	50.6		50.0	101	51.6		50.0	103	51.8		50.0	104
Lead	50.1		50.0	100	50.0		50.0	100	49.9		50.0	100
Nickel	51.0		50.0	102	51.8		50.0	104	51.6		50.0	103
Zinc	49.6		50.0	99	50.1		50.0	100	49.9		50.0	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICV Source: MS ICV_00449   Concentration Units: ug/L

CCV Source: MS CCV_00450

Analyte	CCV 280-94600/66 11/03/2011 01:05				CCV 280-94600/77 11/03/2011 01:37				CCV 280-94600/88 11/03/2011 02:08			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	47.6		50.0	95	47.5		50.0	95	48.0		50.0	96
Copper	51.6		50.0	103	52.4		50.0	105	51.8		50.0	104
Lead	49.0		50.0	98	49.0		50.0	98	49.6		50.0	99
Nickel	51.5		50.0	103	52.0		50.0	104	51.6		50.0	103
Zinc	49.7		50.0	99	50.5		50.0	101	50.1		50.0	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICV Source: MS ICV_00449   Concentration Units: ug/L

CCV Source: MS CCV_00450

Analyte	CCV 280-94600/98 11/03/2011 02:39				CCV 280-94600/107 11/03/2011 03:05							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	47.7		50.0	95	47.1		50.0	94				
Copper	52.0		50.0	104	51.9		50.0	104				
Lead	49.7		50.0	99	49.8		50.0	100				
Nickel	52.1		50.0	104	51.7		50.0	103				
Zinc	50.5		50.0	101	50.1		50.0	100				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

ICV Source: MS LCCV dly_00449 Concentration Units: ug/L

CCV Source: MS LCCV dly_00449

Analyte	ICVL 280-94600/5 11/02/2011 22:08				CCVL 280-94600/17 11/02/2011 22:43				CCVL 280-94600/26 11/02/2011 23:09			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.11		2.00	105	2.01		2.00	100	1.99	J	2.00	100
Copper	2.19		2.00	109	2.15		2.00	107	2.20		2.00	110
Lead	1.09		1.00	109	1.09		1.00	109	1.08		1.00	108
Nickel	2.28		2.00	114	2.29		2.00	114	2.33		2.00	116
Zinc	10.3		10.0	103	10.3		10.0	103	10.4		10.0	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICV Source: MS LCCV dly_00449   Concentration Units: ug/L

CCV Source: MS LCCV dly_00449

Analyte	CCVL 280-94600/35 11/02/2011 23:35				CCVL 280-94600/47 11/03/2011 00:09				CCVL 280-94600/58 11/03/2011 00:41			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	1.98	J	2.00	99	1.98	J	2.00	99	1.96	J	2.00	98
Copper	2.14		2.00	107	2.17		2.00	108	2.22		2.00	111
Lead	1.07		1.00	107	1.08		1.00	108	1.08		1.00	108
Nickel	2.28		2.00	114	2.32		2.00	116	2.32		2.00	116
Zinc	10.3		10.0	103	10.2		10.0	102	10.4		10.0	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICV Source: MS LCCV dly_00449   Concentration Units: ug/L

CCV Source: MS LCCV dly_00449

Analyte	CCVL 280-94600/68 11/03/2011 01:10				CCVL 280-94600/79 11/03/2011 01:42				CCVL 280-94600/90 11/03/2011 02:14			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	1.97	J	2.00	98	1.95	J	2.00	98	1.93	J	2.00	96
Copper	2.20		2.00	110	2.21		2.00	111	2.23		2.00	111
Lead	1.07		1.00	107	1.05		1.00	105	1.06		1.00	106
Nickel	2.33		2.00	117	2.34		2.00	117	2.33		2.00	117
Zinc	10.5		10.0	105	10.4		10.0	104	10.3		10.0	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICV Source: MS LCCV dly_00449   Concentration Units: ug/L

CCV Source: MS LCCV dly_00449

Analyte	CCVL 280-94600/100 11/03/2011 02:44				CCVL 280-94600/109 11/03/2011 03:11							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	1.95	J	2.00	97	1.96	J	2.00	98				
Copper	2.20		2.00	110	2.20		2.00	110				
Lead	1.07		1.00	107	1.07		1.00	107				
Nickel	2.35		2.00	118	2.32		2.00	116				
Zinc	10.4		10.0	104	10.4		10.0	104				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Method: 6020A   Instrument ID: MT_024

Lab Sample ID: CRI 280-94332/7   Concentration Units: ug/L

CRQL Check Standard Source: MS RL STD_00459

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	1.00	1.00	J	100	80-120
Copper	1.00	1.01	J	101	80-120
Lead	1.00	0.959	J	96	80-120
Nickel	1.00	0.941	J	94	80-120
Zinc	10.0	9.73	J	97	80-120

Lab Sample ID: CRI 280-94600/7   Concentration Units: ug/L

CRQL Check Standard Source: MS RL STD_00460

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	1.00	0.953	J	95	80-120
Copper	1.00	0.998	J	100	80-120
Lead	1.00	0.969	J	97	80-120
Nickel	1.00	1.05	J	105	80-120
Zinc	10.0	9.73	J	97	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 280-94332/6 11/01/2011 18:17		CCB 280-94332/15 11/01/2011 18:43		CCB 280-94332/18 11/01/2011 19:35		CCB 280-94332/29 11/01/2011 20:07	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 280-94332/41 11/01/2011 20:42		CCB 280-94332/51 11/01/2011 21:11		CCB 280-94332/63 11/01/2011 21:46		CCB 280-94332/76 11/01/2011 22:24	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 280-94332/87 11/01/2011 22:56		CCB 280-94332/99 11/01/2011 23:30		CCB 280-94332/111 11/02/2011 00:05		CCB 280-94332/122 11/02/2011 00:38	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 280-94332/133 11/02/2011 01:09		CCB 280-94332/144 11/02/2011 01:42		CCB 280-94332/154 11/02/2011 02:11			
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U		
Copper	2.0	1.5	U	1.5	U	1.5	U		
Lead	1.0	0.50	U	0.50	U	0.50	U		
Nickel	2.0	0.90	U	0.90	U	0.90	U		
Zinc	10	6.0	U	6.0	U	6.0	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 280-94600/6 11/02/2011 22:11		CCB 280-94600/16 11/02/2011 22:40		CCB 280-94600/25 11/02/2011 23:06		CCB 280-94600/34 11/02/2011 23:32	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 280-94600/46 11/03/2011 00:07		CCB 280-94600/57 11/03/2011 00:38		CCB 280-94600/67 11/03/2011 01:07		CCB 280-94600/78 11/03/2011 01:39	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 280-94600/89 11/03/2011 02:11		CCB 280-94600/99 11/03/2011 02:41		CCB 280-94600/108 11/03/2011 03:08			
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U		
Copper	2.0	1.5	U	1.5	U	1.5	U		
Lead	1.0	0.50	U	0.50	U	0.50	U		
Nickel	2.0	0.90	U	0.90	U	0.90	U		
Zinc	10	6.0	U	6.0	U	6.0	U		

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver　　Job No.: 280-21683-1

SDG No.:

Concentration Units: mg/Kg　　Lab Sample ID: MB 280-91954/1-A

Instrument Code: MT_024　　Batch No.: 94332

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.0140	J	Q	6020A
7440-50-8	Copper	0.213	J		6020A
7439-92-1	Lead	0.0259	J		6020A
7440-02-0	Nickel	0.074	U		6020A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Concentration Units: mg/Kg   Lab Sample ID: MB 280-91956/1-A

Instrument Code: MT_024   Batch No.: 94332

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.038	U	Q	6020A
7440-50-8	Copper	0.126	J		6020A
7439-92-1	Lead	0.047	U		6020A
7440-02-0	Nickel	0.071	U		6020A
7440-66-6	Zinc	0.461	J		6020A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 280-91958/1-A

Instrument Code: MT_024 Batch No.: 94332

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.038	U	Q	6020A
7440-50-8	Copper	0.19	U		6020A
7439-92-1	Lead	0.048	U		6020A
7440-02-0	Nickel	0.071	U		6020A
7440-66-6	Zinc	0.552	J		6020A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Concentration Units: mg/Kg   Lab Sample ID: MB 280-91960/1-A

Instrument Code: MT_024   Batch No.: 94332

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.038	U	Q	6020A
7440-50-8	Copper	0.19	U		6020A
7439-92-1	Lead	0.048	U		6020A
7440-02-0	Nickel	0.071	U		6020A
7440-66-6	Zinc	0.443	J		6020A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 280-94043/1-A

Instrument Code: MT_024 Batch No.: 94600

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.038	U	Q	6020A
7440-50-8	Copper	0.19	U		6020A
7439-92-1	Lead	0.0118	J		6020A
7440-02-0	Nickel	0.071	U		6020A
7440-66-6	Zinc	0.86	U		6020A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Concentration Units: mg/Kg   Lab Sample ID: MB 280-91961/1-A

Instrument Code: MT_024   Batch No.: 94600

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.036	U	Q	6020A
7440-50-8	Copper	0.18	U		6020A
7439-92-1	Lead	0.045	U		6020A
7440-02-0	Nickel	0.067	U		6020A
7440-66-6	Zinc	0.80	U		6020A

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 280-94294/1-A

Instrument Code: MT_024 Batch No.: 94600

CAS No.	Analyte	Concentration	C	Q	Method
7440-66-6	Zinc	0.83	U		6020A

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: ICSA 280-94332/9   Instrument ID: MT_024

Lab File ID: 010ICSA.D   ICS Source: MS ICSA_00447

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.293**	
Copper		**0.373**	
Lead		**0.135**	
Nickel		**0.687**	
Zinc		**2.66**	
Arsenic		*0.535*	
Barium		*0.181*	
Beryllium		*0.0006*	
Cadmium		*0.669*	
Chromium		*1.14*	
Co		*0.0484*	
Manganese		*0.341*	
Molybdenum	*2000*	*2092*	*105*
Selenium		*-0.0613*	
Silver		*0.0620*	
Thallium		*0.0436*	
Tin		*0.110*	
Uranium		*0.0011*	
Vanadium		*0.183*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: ICSAB 280-94332/10   Instrument ID: MT_024

Lab File ID: 011ICSB.D   ICS Source: MS ICSAB_00450

Concentration Units: ug/L

Analyte	True	Found	
	Solution AB	Solution AB	Percent Recovery
Antimony	**100**	**105**	**105**
Copper	**100**	**92.8**	**93**
Lead	**100**	**91.3**	**91**
Nickel	**100**	**94.0**	**94**
Zinc	**100**	**99.0**	**99**
Arsenic	*100*	*106*	*106*
Barium	*100*	*105*	*105*
Beryllium	*100*	*101*	*101*
Cadmium	*100*	*97.3*	*97*
Chromium	*100*	*101*	*101*
Co	*100*	*97.4*	*97*
Manganese	*100*	*99.4*	*99*
Molybdenum	*2100*	*2237*	*107*
Selenium	*100*	*110*	*110*
Silver	*100*	*89.2*	*89*
Thallium	*100*	*92.2*	*92*
Tin	*100*	*102*	*102*
Uranium	*100*	*98.2*	*98*
Vanadium	*100*	*106*	*106*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: ICSA 280-94600/9   Instrument ID: MT_024

Lab File ID: 010ICSA.D   ICS Source: MS ICSA_00448

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.283**	
Copper		**0.302**	
Lead		**0.139**	
Nickel		**0.844**	
Zinc		**2.41**	
Arsenic		*0.559*	
Barium		*0.188*	
Beryllium		*0.0007*	
Cadmium		*0.539*	
Chromium		*1.13*	
Co		*0.0581*	
Manganese		*0.501*	
Molybdenum	*2000*	*2101*	*105*
Selenium		*0.456*	
Silver		*0.0591*	
Thallium		*0.0466*	
Tin		*0.148*	
Uranium		*0.0014*	
Vanadium		*0.122*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Lab Sample ID: ICSAB 280-94600/10   Instrument ID: MT_024

Lab File ID: 011ICSB.D   ICS Source: MS ICSAB_00451

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Antimony	**100**	**104**	**104**
Copper	**100**	**91.7**	**92**
Lead	**100**	**94.1**	**94**
Nickel	**100**	**94.2**	**94**
Zinc	**100**	**97.6**	**98**
Arsenic	*100*	*104*	*104*
Barium	*100*	*105*	*105*
Beryllium	*100*	*101*	*101*
Cadmium	*100*	*95.9*	*96*
Chromium	*100*	*100*	*100*
Co	*100*	*99.0*	*99*
Manganese	*100*	*99.9*	*100*
Molybdenum	*2100*	*2226*	*106*
Selenium	*100*	*107*	*107*
Silver	*100*	*87.8*	*88*
Thallium	*100*	*95.9*	*96*
Tin	*100*	*98.6*	*99*
Uranium	*100*	*101*	*101*
Vanadium	*100*	*103*	*103*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MG26 SB104 MS

Lab ID: 280-21683-1 MS

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 85.8

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	3.25		0.027	J	21.6	15	82-110	Q J	6020A
Copper	22.6		2.3	J	21.6	94	87-125		6020A
Lead	26.3		6.1		21.6	94	81-125		6020A
Nickel	23.3		2.5		21.6	96	90-113		6020A
Zinc	28.0		9.3		21.2	88	85-119		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MG24 SB101 MS

Lab ID: 280-21683-21 MS

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 94.7

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	6.07		0.018	J	19.2	32	82-110	Q J	6020A
Copper	21.1		2.2	J	19.2	99	87-125		6020A
Lead	22.2		3.3		19.2	99	81-125		6020A
Nickel	21.1		3.4		19.2	92	90-113		6020A
Zinc	33.7		9.2		19.2	128	85-119	J	6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MG06 SB064 MS

Lab ID: 280-21683-41 MS

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 91.5

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	4.20		0.024	J	18.7	22	82-110	Q J	6020A
Copper	20.9		3.2		18.7	95	87-125		6020A
Lead	22.5		4.9		18.7	94	81-125		6020A
Nickel	21.2		3.0		18.7	97	90-113		6020A
Zinc	29.8		10		18.7	105	85-119		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MG16 SB083 MS Lab ID: 280-21683-61 MS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

% Solids: 87.6

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	3.21		0.025	J	19.0	17	82-110	Q J	6020A
Copper	21.5		2.1	J	19.0	102	87-125		6020A
Lead	28.3		8.3		19.0	105	81-125		6020A
Nickel	21.6		2.1		19.0	103	90-113		6020A
Zinc	25.3		6.2		19.0	101	85-119		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: CP01 IS03 MS | Lab ID: 280-21683-76 MS

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	1.31		0.028	J	9.53	13	82-110	Q J	6020A
Copper	11.2		2.4		9.53	92	87-125		6020A
Lead	22.6		14		9.53	92	81-125		6020A
Nickel	10.6		1.5		9.53	96	90-113		6020A
Zinc	18.3		10		9.53	87	85-119		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: CP08 SB009 MS   Lab ID: 280-21683-81 MS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Concentration Units: mg/Kg

% Solids: 87.4

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	3.83		0.018	J	22.4	17	82-110	Q J	6020A
Copper	24.2		1.2	J	22.4	102	87-125		6020A
Lead	29.1		7.8		22.4	95	81-125		6020A
Nickel	25.8		1.7		22.4	108	90-113		6020A
Zinc	32.8		8.1		22.4	110	85-119		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MG26 SB104 MSD   Lab ID: 280-21683-1 MSD

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Concentration Units: mg/Kg

% Solids: 85.8

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	3.31		21.6	15	82-110	2	20	Q J	6020A
Copper	22.9		21.6	95	87-125	1	20		6020A
Lead	26.4		21.6	94	81-125	0	20		6020A
Nickel	23.1		21.6	96	90-113	1	20		6020A
Zinc	30.7		21.8	98	85-119	9	20		6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MG24 SB101 MSD   Lab ID: 280-21683-21 MSD

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Concentration Units: mg/Kg

% Solids: 94.7

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	6.72		19.2	35	82-110	10	20	Q J	6020A
Copper	20.5		19.2	96	87-125	3	20		6020A
Lead	21.4		19.2	94	81-125	4	20		6020A
Nickel	24.6		19.2	110	90-113	15	20		6020A
Zinc	31.3		19.2	115	85-119	7	20		6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MG06 SB064 MSD

Lab ID: 280-21683-41 MSD

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 91.5

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	4.48		21.0	21	82-110	6	20	Q J	6020A
Copper	22.5		21.0	92	87-125	8	20		6020A
Lead	24.5		21.0	93	81-125	8	20		6020A
Nickel	22.3		21.0	92	90-113	5	20		6020A
Zinc	31.5		21.0	102	85-119	6	20		6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MG16 SB083 MSD

Lab ID: 280-21683-61 MSD

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 87.6

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	4.14		22.6	18	82-110	25	20	Q J	6020A
Copper	23.9		22.6	96	87-125	11	20		6020A
Lead	30.3		22.6	97	81-125	7	20		6020A
Nickel	23.8		22.6	96	90-113	10	20		6020A
Zinc	26.9		22.6	92	85-119	6	20		6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: CP01 IS03 MSD | Lab ID: 280-21683-76 MSD

Lab Name: TestAmerica Denver | Job No.: 280-21683-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	1.35		9.51	14	82-110	3	20	Q J	6020A
Copper	11.7		9.51	97	87-125	4	20		6020A
Lead	22.6		9.51	92	81-125	0	20		6020A
Nickel	10.8		9.51	98	90-113	1	20		6020A
Zinc	18.7		9.51	92	85-119	3	20		6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: CP08 SB009 MSD

Lab ID: 280-21683-81 MSD

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 87.4

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	3.11		20.6	15	82-110	21	20	Q J	6020A
Copper	21.5		20.6	98	87-125	12	20		6020A
Lead	26.3		20.6	90	81-125	10	20		6020A
Nickel	22.9		20.6	103	90-113	12	20		6020A
Zinc	28.2		20.6	97	85-119	15	20		6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: MG26 SB104 PDS　　Lab ID: 280-21683-1 PDS

Lab Name: TestAmerica Denver　　Job No.: 280-21683-1

SDG No.:

Matrix: Solid　　Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	109		0.027	J	109	100	75-125	Q	6020A
Copper	109		2.3	J	109	98	75-125		6020A
Lead	109		6.1		109	95	75-125		6020A
Nickel	114		2.5		109	102	75-125		6020A
Zinc	115		9.3		109	97	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: MG24 SB101 PDS　　Lab ID: 280-21683-21 PDS

Lab Name: TestAmerica Denver　　Job No.: 280-21683-1

SDG No.:

Matrix: Solid　　Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	102		0.018	J	98.7	103	75-125	Q	6020A
Copper	95.2		2.2	J	98.7	94	75-125		6020A
Lead	94.6		3.3		98.7	93	75-125		6020A
Nickel	98.2		3.4		98.7	96	75-125		6020A
Zinc	105		9.2		98.7	97	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: MG06 SB064 PDS   Lab ID: 280-21683-41 PDS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	101		0.024	J	99.4	102	75-125	Q	6020A
Copper	95.1		3.2		99.4	92	75-125		6020A
Lead	94.4		4.9		99.4	90	75-125		6020A
Nickel	96.7		3.0		99.4	94	75-125		6020A
Zinc	105		10		99.4	95	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: MG16 SB083 PDS   Lab ID: 280-21683-61 PDS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	99.0		0.025	J	102	97	75-125	Q	6020A
Copper	100		2.1	J	102	96	75-125		6020A
Lead	103		8.3		102	93	75-125		6020A
Nickel	103		2.1		102	99	75-125		6020A
Zinc	101		6.2		102	93	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: CP01 IS03 PDS

Lab ID: 280-21683-76 PDS

Lab Name: TestAmerica Denver

Job No.: 280-21683-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	46.1		0.028	J	47.8	96	75-125	Q	6020A
Copper	49.9		2.4		47.8	99	75-125		6020A
Lead	59.6		14		47.8	96	75-125		6020A
Nickel	52.0		1.5		47.8	106	75-125		6020A
Zinc	55.6		10		47.8	95	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: CP08 SB009 PDS   Lab ID: 280-21683-81 PDS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Matrix: Solid   Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	92.9		0.018	J	97.7	95	75-125	Q	6020A
Copper	96.6		1.2	J	97.7	98	75-125		6020A
Lead	99.5		7.8		97.7	94	75-125		6020A
Nickel	104		1.7		97.7	105	75-125		6020A
Zinc	99.3		8.1		97.7	93	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-91954/2-A

Lab Name: TestAmerica Denver Job No.: 280-21683-1

Sample Matrix: Solid LCS Source: MS CALSTD-2_00054

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	19.4	18.4		95	82	110	Q	6020A
Copper	19.4	19.1		98	87	125		6020A
Lead	19.4	18.9		97	81	125		6020A
Nickel	19.4	18.8		97	90	113		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-91956/2-A

Lab Name: TestAmerica Denver Job No.: 280-21683-1

Sample Matrix: Solid LCS Source: MS CALSTD-2_00054

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	19.4	20.6		106	82	110	Q	6020A
Copper	19.4	19.8		102	87	125		6020A
Lead	19.4	19.2		99	81	125		6020A
Nickel	19.4	19.3		99	90	113		6020A
Zinc	19.4	20.4		105	85	119		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-91958/2-A

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

Sample Matrix: Solid   LCS Source: MS CALSTD-2_00054

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	19.6	20.0		102	82	110	Q	6020A
Copper	19.6	19.4		99	87	125		6020A
Lead	19.6	18.8		96	81	125		6020A
Nickel	19.6	19.0		97	90	113		6020A
Zinc	19.6	19.8		101	85	119		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-91960/2-A

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

Sample Matrix: Solid   LCS Source: MS CALSTD-2_00054

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	19.0	20.3		107	82	110	Q	6020A
Copper	19.0	19.5		103	87	125		6020A
Lead	19.0	19.1		100	81	125		6020A
Nickel	19.0	19.1		100	90	113		6020A
Zinc	19.0	20.0		105	85	119		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-94043/2-A

Lab Name: TestAmerica Denver Job No.: 280-21683-1

Sample Matrix: Solid LCS Source: MS CALSTD-2_00054

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	9.83	9.26		94	82	110	Q	6020A
Copper	9.83	9.72		99	87	125		6020A
Lead	9.83	9.85		100	81	125		6020A
Nickel	9.83	9.84		100	90	113		6020A
Zinc	9.83	9.41		96	85	119		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-94294/2-A

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

Sample Matrix: Solid   LCS Source: MS CALSTD-1_00055

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Zinc	18.3	17.5		95	85	119		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-91961/2-A

Lab Name: TestAmerica Denver Job No.: 280-21683-1

Sample Matrix: Solid LCS Source: MS CALSTD-2_00054

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	18.9	17.5		93	82	110	Q	6020A
Copper	18.9	18.9		100	87	125		6020A
Lead	18.9	18.6		98	81	125		6020A
Nickel	18.9	19.5		104	90	113		6020A
Zinc	18.9	18.1		96	85	119		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-21683-1

SDG No:

Lab Name: TestAmerica Denver Job No: 280-21683-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.027	J	0.22	U	NC	Q	6020A
Copper	2.3	J	2.67	J	NC	D	6020A
Lead	6.1		6.16		1.8	D	6020A
Nickel	2.5		2.38		5.1	D	6020A
Zinc	9.3		9.40	J	NC	D	6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-21683-21

SDG No:

Lab Name: TestAmerica Denver

Job No: 280-21683-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.018	J	0.20	U	NC	Q	6020A
Copper	2.2	J	2.24	J	NC	D	6020A
Lead	3.3		3.28		0.23	D	6020A
Nickel	3.4		3.38		1.8	D	6020A
Zinc	9.2		9.41	J	NC	D	6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-21683-41

SDG No:

Lab Name: TestAmerica Denver   Job No: 280-21683-1

Matrix: Solid   Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.024	J	0.20	U	NC	Q	6020A
Copper	3.2		3.40	J	NC	D	6020A
Lead	4.9		5.08		4.4	D	6020A
Nickel	3.0		3.01		0.23	D	6020A
Zinc	10		10.9	J	NC	D	6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-21683-61

SDG No:

Lab Name: TestAmerica Denver　　Job No: 280-21683-1

Matrix: Solid　　Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.025	J	0.20	U	NC	Q	6020A
Copper	2.1	J	2.28	J	NC	D	6020A
Lead	8.3		8.51		2.9	D	6020A
Nickel	2.1		2.00		2.7	D	6020A
Zinc	6.2		6.43	J	NC	D	6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-21683-76

SDG No:

Lab Name: TestAmerica Denver Job No: 280-21683-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.028	J	0.19	U	NC	Q	6020A
Copper	2.4		2.43	J	1.1	D	6020A
Lead	14		13.8		0.83	D	6020A
Nickel	1.5		1.50	J	2.6	D	6020A
Zinc	10		10.3	J	2.9	D	6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-21683-81

SDG No:

Lab Name: TestAmerica Denver

Job No: 280-21683-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.018	J	0.20	U	NC	Q	6020A
Copper	1.2	J	1.22	J	NC	D	6020A
Lead	7.8		7.91		2.1	D	6020A
Nickel	1.7		1.69	J	1.7	D	6020A
Zinc	8.1		8.27	J	NC	D	6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-21683-1

SDG Number:

Matrix: Solid Instrument ID: MT_024

Method: 6020A DL Date: 06/20/2011 12:15

Prep Method: 3050B

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (ug/Kg)
Antimony	121	0.2	14
Copper	63	2.5	71.1
Lead	208	0.1	18.2
Nickel	60	0.35	25.3
Zinc	66	2.5	316

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-21683-1

SDG Number:

Matrix: Solid Instrument ID: MT_024

Method: 6020A XMDL Date: 06/20/2011 12:42

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony		2	0.07
Copper		2	0.56
Lead		1	0.18
Nickel		2	0.3
Zinc		10	2

FORM IX - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver   Job Number: 280-21683-1

SDG Number:

Matrix: Solid   Instrument ID: MT_024

Method: 6020A   DL Date: 06/20/2011 12:15

Prep Method: 3050B

Leach Method: Increm, Prep

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (ug/Kg)
Antimony	121	0.2	14
Copper	63	2.5	71.1
Lead	208	0.1	18.2
Nickel	60	0.35	25.3
Zinc	66	2.5	316

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver   Job Number: 280-21683-1

SDG Number:

Matrix: Solid   Instrument ID: MT_024

Method: 6020A   XMDL Date: 06/20/2011 12:42

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony		2	0.07
Copper		2	0.56
Lead		1	0.18
Nickel		2	0.3
Zinc		10	2

FORM IX - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Denver   Job No: 280-21683-1

SDG No.:

Instrument ID: MT_024   Date: 10/10/2011 16:29

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Antimony		4000	6020A
Copper		4000	6020A
Lead		4000	6020A
Nickel		4000	6020A
Zinc		4000	6020A

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-91954/1-A	10/31/2011 14:00	91954	1.02		100
LCS 280-91954/2-A	10/31/2011 14:00	91954	1.03		100
280-21683-1	10/31/2011 14:00	91954	1.07		100
280-21683-1 MS	10/31/2011 14:00	91954	1.08		100
280-21683-1 MSD	10/31/2011 14:00	91954	1.08		100
280-21683-5	10/31/2011 14:00	91954	1.06		100
280-21683-6	10/31/2011 14:00	91954	1.14		100
280-21683-7	10/31/2011 14:00	91954	1.07		100
280-21683-8	10/31/2011 14:00	91954	1.04		100
280-21683-9	10/31/2011 14:00	91954	1.02		100
280-21683-10	10/31/2011 14:00	91954	1.00		100
280-21683-11	10/31/2011 14:00	91954	1.13		100
280-21683-12	10/31/2011 14:00	91954	1.11		100
280-21683-13	10/31/2011 14:00	91954	1.00		100
280-21683-14	10/31/2011 14:00	91954	1.16		100
280-21683-15	10/31/2011 14:00	91954	1.03		100
280-21683-16	10/31/2011 14:00	91954	1.01		100
280-21683-17	10/31/2011 14:00	91954	1.11		100
280-21683-18	10/31/2011 14:00	91954	1.03		100
280-21683-19	10/31/2011 14:00	91954	1.05		100
280-21683-20	10/31/2011 14:00	91954	1.05		100

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-91956/1-A	11/01/2011 05:30	91956	1.06		100
LCS 280-91956/2-A	11/01/2011 05:30	91956	1.03		100
280-21683-21	11/01/2011 05:30	91956	1.07		100
280-21683-21 MS	11/01/2011 05:30	91956	1.10		100
280-21683-21 MSD	11/01/2011 05:30	91956	1.10		100
280-21683-22	11/01/2011 05:30	91956	1.18		100
280-21683-23	11/01/2011 05:30	91956	1.01		100
280-21683-24	11/01/2011 05:30	91956	1.11		100
280-21683-25	11/01/2011 05:30	91956	1.01		100
280-21683-26	11/01/2011 05:30	91956	1.05		100
280-21683-27	11/01/2011 05:30	91956	1.15		100
280-21683-28	11/01/2011 05:30	91956	1.07		100
280-21683-29	11/01/2011 05:30	91956	1.13		100
280-21683-30	11/01/2011 05:30	91956	1.13		100
280-21683-31	11/01/2011 05:30	91956	1.03		100
280-21683-32	11/01/2011 05:30	91956	1.15		100
280-21683-33	11/01/2011 05:30	91956	1.12		100
280-21683-34	11/01/2011 05:30	91956	1.03		100
280-21683-35	11/01/2011 05:30	91956	1.13		100
280-21683-36	11/01/2011 05:30	91956	1.05		100
280-21683-37	11/01/2011 05:30	91956	1.10		100
280-21683-38	11/01/2011 05:30	91956	1.16		100
280-21683-39	11/01/2011 05:30	91956	1.19		100
280-21683-40	11/01/2011 05:30	91956	1.04		100

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-91958/1-A	11/01/2011 05:30	91958	1.05		100
LCS 280-91958/2-A	11/01/2011 05:30	91958	1.02		100
280-21683-41	11/01/2011 05:30	91958	1.10		100
280-21683-41 MS	11/01/2011 05:30	91958	1.17		100
280-21683-41 MSD	11/01/2011 05:30	91958	1.04		100
280-21683-42	11/01/2011 05:30	91958	1.06		100
280-21683-43	11/01/2011 05:30	91958	1.05		100
280-21683-44	11/01/2011 05:30	91958	1.17		100
280-21683-45	11/01/2011 05:30	91958	1.20		100
280-21683-46	11/01/2011 05:30	91958	1.16		100
280-21683-47	11/01/2011 05:30	91958	1.04		100
280-21683-48	11/01/2011 05:30	91958	1.05		100
280-21683-49	11/01/2011 05:30	91958	1.11		100
280-21683-50	11/01/2011 05:30	91958	1.19		100
280-21683-51	11/01/2011 05:30	91958	1.07		100
280-21683-52	11/01/2011 05:30	91958	1.20		100
280-21683-53	11/01/2011 05:30	91958	1.10		100
280-21683-54	11/01/2011 05:30	91958	1.03		100
280-21683-55	11/01/2011 05:30	91958	1.08		100
280-21683-56	11/01/2011 05:30	91958	1.09		100
280-21683-57	11/01/2011 05:30	91958	1.03		100
280-21683-58	11/01/2011 05:30	91958	1.04		100
280-21683-59	11/01/2011 05:30	91958	1.06		100
280-21683-60	11/01/2011 05:30	91958	1.04		100

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-91960/1-A	11/01/2011 05:30	91960	1.05		100
LCS 280-91960/2-A	11/01/2011 05:30	91960	1.05		100
280-21683-61	11/01/2011 05:30	91960	1.12		100
280-21683-61 MS	11/01/2011 05:30	91960	1.20		100
280-21683-61 MSD	11/01/2011 05:30	91960	1.01		100
280-21683-62	11/01/2011 05:30	91960	1.13		100
280-21683-63	11/01/2011 05:30	91960	1.05		100
280-21683-64	11/01/2011 05:30	91960	1.07		100
280-21683-65	11/01/2011 05:30	91960	1.07		100
280-21683-66	11/01/2011 05:30	91960	1.15		100
280-21683-67	11/01/2011 05:30	91960	1.10		100
280-21683-68	11/01/2011 05:30	91960	1.14		100
280-21683-69	11/01/2011 05:30	91960	1.15		100
280-21683-70	11/01/2011 05:30	91960	1.06		100
280-21683-71	11/01/2011 05:30	91960	1.07		100
280-21683-72	11/01/2011 05:30	91960	1.06		100
280-21683-73	11/01/2011 05:30	91960	1.02		100
280-21683-77	11/01/2011 05:30	91960	1.15		100
280-21683-78	11/01/2011 05:30	91960	1.05		100
280-21683-79	11/01/2011 05:30	91960	1.17		100
280-21683-80	11/01/2011 05:30	91960	1.17		100

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-91961/1-A	11/02/2011 18:00	91961	1.12		100
LCS 280-91961/2-A	11/02/2011 18:00	91961	1.06		100
280-21683-81	11/02/2011 18:00	91961	1.17		100
280-21683-81 MS	11/02/2011 18:00	91961	1.02		100
280-21683-81 MSD	11/02/2011 18:00	91961	1.11		100
280-21683-82	11/02/2011 18:00	91961	1.19		100
280-21683-83	11/02/2011 18:00	91961	1.03		100
280-21683-84	11/02/2011 18:00	91961	1.01		100
280-21683-85	11/02/2011 18:00	91961	1.09		100
280-21683-86	11/02/2011 18:00	91961	1.06		100
280-21683-87	11/02/2011 18:00	91961	1.04		100
280-21683-88	11/02/2011 18:00	91961	1.08		100
280-21683-89	11/02/2011 18:00	91961	1.20		100
280-21683-90	11/02/2011 18:00	91961	1.04		100
280-21683-91	11/02/2011 18:00	91961	1.04		100
280-21683-92	11/02/2011 18:00	91961	1.06		100
280-21683-93	11/02/2011 18:00	91961	1.02		100
280-21683-94	11/02/2011 18:00	91961	1.20		100
280-21683-95	11/02/2011 18:00	91961	1.17		100

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-94043/1-A	11/02/2011 14:00	94043	10.52		500
LCS 280-94043/2-A	11/02/2011 14:00	94043	10.17		500
280-21683-2	11/02/2011 14:00	94043	10.49		500
280-21683-3	11/02/2011 14:00	94043	10.57		500
280-21683-4	11/02/2011 14:00	94043	10.25		500
280-21683-74	11/02/2011 14:00	94043	10.31		500
280-21683-75	11/02/2011 14:00	94043	10.64		500
280-21683-76	11/02/2011 14:00	94043	10.47		500
280-21683-76 MS	11/02/2011 14:00	94043	10.49		500
280-21683-76 MSD	11/02/2011 14:00	94043	10.51		500

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-94294/1-A	11/02/2011 18:00	94294	1.09		100
LCS 280-94294/2-A	11/02/2011 18:00	94294	1.09		100
280-21683-1	11/02/2011 18:00	94294	1.07		100
280-21683-1 MS	11/02/2011 18:00	94294	1.10		100
280-21683-1 MSD	11/02/2011 18:00	94294	1.07		100
280-21683-5	11/02/2011 18:00	94294	1.13		100
280-21683-6	11/02/2011 18:00	94294	1.15		100
280-21683-7	11/02/2011 18:00	94294	1.20		100
280-21683-8	11/02/2011 18:00	94294	1.16		100
280-21683-9	11/02/2011 18:00	94294	1.09		100
280-21683-10	11/02/2011 18:00	94294	1.13		100
280-21683-11	11/02/2011 18:00	94294	1.10		100
280-21683-12	11/02/2011 18:00	94294	1.01		100
280-21683-13	11/02/2011 18:00	94294	1.12		100
280-21683-14	11/02/2011 18:00	94294	1.10		100
280-21683-15	11/02/2011 18:00	94294	1.03		100
280-21683-16	11/02/2011 18:00	94294	1.07		100
280-21683-17	11/02/2011 18:00	94294	1.04		100
280-21683-18	11/02/2011 18:00	94294	1.04		100
280-21683-19	11/02/2011 18:00	94294	1.02		100
280-21683-20	11/02/2011 18:00	94294	1.01		100

FORM XII-IN

ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/01/2011 18:00 End Date: 11/02/2011 02:14

Lab Sample ID	D/F	Type	Time	Analytes Cu	Ni	Pb	Sb	Zn
ITUNE 280-94332/1			18:00					
IC 280-94332/2	1		18:06	X	X	X	X	X
IC 280-94332/3	1		18:09	X	X	X	X	X
ICV 280-94332/4	1		18:11	X	X	X	X	X
ICVL 280-94332/5	1		18:14	X	X	X	X	X
ICB 280-94332/6	1		18:17	X	X	X	X	X
CRI 280-94332/7	1		18:20	X	X	X	X	X
ZZZZZZ			18:23					
ICSA 280-94332/9	1		18:26	X	X	X	X	X
ICSAB 280-94332/10	1		18:29	X	X	X	X	X
RINSE 280-94332/11			18:32					
LRA 280-94332/12			18:35					
RINSE 280-94332/13			18:37					
CCV 280-94332/14	1		18:40	X	X	X	X	X
CCB 280-94332/15	1		18:43	X	X	X	X	X
CCVL 280-94332/16	1		18:46	X	X	X	X	X
CCV 280-94332/17	1		19:32	X	X	X	X	X
CCB 280-94332/18	1		19:35	X	X	X	X	X
CCVL 280-94332/19	1		19:38	X	X	X	X	X
MB 280-91954/1-A	1	T	19:41	X	X	X	X	
LCS 280-91954/2-A	1	T	19:44	X	X	X	X	
280-21683-1	1	T	19:47	X	X	X	X	
280-21683-1 SD	5	T	19:50	X	X	X	X	
280-21683-1 PDS	1	T	19:53	X	X	X	X	
280-21683-1 MS	1	T	19:55	X	X	X	X	
280-21683-1 MSD	1	T	19:58	X	X	X	X	
280-21683-5	1	T	20:01	X	X	X	X	
CCV 280-94332/28	1		20:04	X	X	X	X	X
CCB 280-94332/29	1		20:07	X	X	X	X	X
CCVL 280-94332/30	1		20:10	X	X	X	X	X
ZZZZZZ			20:13					
280-21683-6	1	T	20:16	X	X	X	X	
280-21683-7	1	T	20:19	X	X	X	X	
280-21683-8	1	T	20:22	X	X	X	X	
280-21683-9	1	T	20:24	X	X	X	X	
280-21683-10	1	T	20:27	X	X	X	X	
280-21683-11	1	T	20:30	X	X	X	X	
280-21683-12	1	T	20:33	X	X	X	X	
280-21683-13	1	T	20:36	X	X	X	X	
CCV 280-94332/40	1		20:39	X	X	X	X	X
CCB 280-94332/41	1		20:42	X	X	X	X	X
CCVL 280-94332/42	1		20:45	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/01/2011 18:00 End Date: 11/02/2011 02:14

Lab Sample ID	D/F	Type	Time	Analytes				
				Cu	Ni	Pb	Sb	Zn
280-21683-14	1	T	20:48	X	X	X	X	
280-21683-15	1	T	20:51	X	X	X	X	
280-21683-16	1	T	20:54	X	X	X	X	
280-21683-17	1	T	20:56	X	X	X	X	
280-21683-18	1	T	20:59	X	X	X	X	
280-21683-19	1	T	21:02	X	X	X	X	
280-21683-20	1	T	21:05	X	X	X	X	
CCV 280-94332/50	1		21:08	X	X	X	X	X
CCB 280-94332/51	1		21:11	X	X	X	X	X
CCVL 280-94332/52	1		21:14	X	X	X	X	X
MB 280-91956/1-A	1	T	21:17	X	X	X	X	X
LCS 280-91956/2-A	1	T	21:20	X	X	X	X	X
280-21683-21	1	T	21:23	X	X	X	X	X
280-21683-21 SD	5	T	21:26	X	X	X	X	X
280-21683-21 PDS	1	T	21:28	X	X	X	X	X
280-21683-21 MS	1	T	21:31	X	X	X	X	X
280-21683-21 MSD	1	T	21:34	X	X	X	X	X
280-21683-22	1	T	21:37	X	X	X	X	X
280-21683-23	1	T	21:40	X	X	X	X	X
CCV 280-94332/62	1		21:43	X	X	X	X	X
CCB 280-94332/63	1		21:46	X	X	X	X	X
CCVL 280-94332/64	1		21:49	X	X	X	X	X
ZZZZZZ			21:51					
280-21683-24	1	T	21:54	X	X	X	X	X
280-21683-25	1	T	21:57	X	X	X	X	X
280-21683-26	1	T	22:00	X	X	X	X	X
280-21683-27	1	T	22:03	X	X	X	X	X
280-21683-28	1	T	22:06	X	X	X	X	X
280-21683-29	1	T	22:09	X	X	X	X	X
280-21683-30	1	T	22:12	X	X	X	X	X
280-21683-31	1	T	22:15	X	X	X	X	X
280-21683-32	1	T	22:18	X	X	X	X	X
CCV 280-94332/75	1		22:21	X	X	X	X	X
CCB 280-94332/76	1		22:24	X	X	X	X	X
CCVL 280-94332/77	1		22:27	X	X	X	X	X
280-21683-33	1	T	22:29	X	X	X	X	X
280-21683-34	1	T	22:32	X	X	X	X	X
280-21683-35	1	T	22:35	X	X	X	X	X
280-21683-36	1	T	22:38	X	X	X	X	X
280-21683-37	1	T	22:41	X	X	X	X	X
280-21683-38	1	T	22:44	X	X	X	X	X
280-21683-39	1	T	22:47	X	X	X	X	X

ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/01/2011 18:00 End Date: 11/02/2011 02:14

Lab Sample ID	D/F	Type	Time	Analytes																			
				Cu	Ni	Pb	Sb	Zn															
280-21683-40	1	T	22:50	X	X	X	X	X															
CCV 280-94332/86	1		22:53	X	X	X	X	X															
CCB 280-94332/87	1		22:56	X	X	X	X	X															
CCVL 280-94332/88	1		22:59	X	X	X	X	X															
MB 280-91958/1-A	1	T	23:02	X	X	X	X	X															
LCS 280-91958/2-A	1	T	23:05	X	X	X	X	X															
280-21683-41	1	T	23:07	X	X	X	X	X															
280-21683-41 SD	5	T	23:10	X	X	X	X	X															
280-21683-41 PDS	1	T	23:13	X	X	X	X	X															
280-21683-41 MS	1	T	23:16	X	X	X	X	X															
280-21683-41 MSD	1	T	23:19	X	X	X	X	X															
280-21683-42	1	T	23:22	X	X	X	X	X															
280-21683-43	1	T	23:25	X	X	X	X	X															
CCV 280-94332/98	1		23:28	X	X	X	X	X															
CCB 280-94332/99	1		23:30	X	X	X	X	X															
CCVL 280-94332/100	1		23:33	X	X	X	X	X															
280-21683-44	1	T	23:36	X	X	X	X	X															
280-21683-45	1	T	23:39	X	X	X	X	X															
280-21683-46	1	T	23:42	X	X	X	X	X															
280-21683-47	1	T	23:45	X	X	X	X	X															
280-21683-48	1	T	23:48	X	X	X	X	X															
280-21683-49	1	T	23:51	X	X	X	X	X															
280-21683-50	1	T	23:54	X	X	X	X	X															
280-21683-51	1	T	23:57	X	X	X	X	X															
280-21683-52	1	T	00:00	X	X	X	X	X															
CCV 280-94332/110	1		00:03	X	X	X	X	X															
CCB 280-94332/111	1		00:05	X	X	X	X	X															
CCVL 280-94332/112	1		00:08	X	X	X	X	X															
280-21683-53	1	T	00:11	X	X	X	X	X															
280-21683-54	1	T	00:14	X	X	X	X	X															
280-21683-55	1	T	00:17	X	X	X	X	X															
280-21683-56	1	T	00:20	X	X	X	X	X															
280-21683-57	1	T	00:23	X	X	X	X	X															
280-21683-58	1	T	00:26	X	X	X	X	X															
280-21683-59	1	T	00:29	X	X	X	X	X															
280-21683-60	1	T	00:32	X	X	X	X	X															
CCV 280-94332/121	1		00:35	X	X	X	X	X															
CCB 280-94332/122	1		00:38	X	X	X	X	X															
CCVL 280-94332/123	1		00:41	X	X	X	X	X															
MB 280-91960/1-A	1	T	00:43	X	X	X	X	X															
LCS 280-91960/2-A	1	T	00:46	X	X	X	X	X															
280-21683-61	1	T	00:49	X	X	X	X	X															

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/01/2011 18:00 End Date: 11/02/2011 02:14

Lab Sample ID	D/F	Type	Time	Analytes				
				Cu	Ni	Pb	Sb	Zn
280-21683-61 SD	5	T	00:52	X	X	X	X	X
280-21683-61 PDS	1	T	00:55	X	X	X	X	X
280-21683-61 MS	1	T	00:58	X	X	X	X	X
280-21683-61 MSD	1	T	01:01	X	X	X	X	X
280-21683-62	1	T	01:04	X	X	X	X	X
CCV 280-94332/132	1		01:07	X	X	X	X	X
CCB 280-94332/133	1		01:09	X	X	X	X	X
CCVL 280-94332/134	1		01:12	X	X	X	X	X
280-21683-63	1	T	01:15	X	X	X	X	X
280-21683-64	1	T	01:18	X	X	X	X	X
280-21683-65	1	T	01:21	X	X	X	X	X
280-21683-66	1	T	01:24	X	X	X	X	X
280-21683-67	1	T	01:27	X	X	X	X	X
280-21683-68	1	T	01:30	X	X	X	X	X
280-21683-69	1	T	01:33	X	X	X	X	X
280-21683-70	1	T	01:36	X	X	X	X	X
CCV 280-94332/143	1		01:39	X	X	X	X	X
CCB 280-94332/144	1		01:42	X	X	X	X	X
CCVL 280-94332/145	1		01:45	X	X	X	X	X
280-21683-71	1	T	01:47	X	X	X	X	X
280-21683-72	1	T	01:50	X	X	X	X	X
280-21683-73	1	T	01:53	X	X	X	X	X
280-21683-77	1	T	01:56	X	X	X	X	X
280-21683-78	1	T	01:59	X	X	X	X	X
280-21683-79	1	T	02:02	X	X	X	X	X
280-21683-80	1	T	02:05	X	X	X	X	X
CCV 280-94332/153	1		02:08	X	X	X	X	X
CCB 280-94332/154	1		02:11	X	X	X	X	X
CCVL 280-94332/155	1		02:14	X	X	X	X	X

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/02/2011 21:54 End Date: 11/03/2011 05:37

Lab Sample ID	D/F	Type	Time	Cu	Ni	Pb	Sb	Zn
ITUNE 280-94600/1			21:54					
IC 280-94600/2	1		22:00	X	X	X	X	X
IC 280-94600/3	1		22:02	X	X	X	X	X
ICV 280-94600/4	1		22:05	X	X	X	X	X
ICVL 280-94600/5	1		22:08	X	X	X	X	X
ICB 280-94600/6	1		22:11	X	X	X	X	X
CRI 280-94600/7	1		22:14	X	X	X	X	X
ZZZZZZ			22:18					
ICSA 280-94600/9	1		22:20	X	X	X	X	X
ICSAB 280-94600/10	1		22:23	X	X	X	X	X
RINSE 280-94600/11			22:26					
ZZZZZZ			22:29					
LRA 280-94600/13			22:32					
RINSE 280-94600/14			22:35					
CCV 280-94600/15	1		22:38	X	X	X	X	X
CCB 280-94600/16	1		22:40	X	X	X	X	X
CCVL 280-94600/17	1		22:43	X	X	X	X	X
MB 280-94043/1-A	1	T	22:46	X	X	X	X	X
LCS 280-94043/2-A	1	T	22:49	X	X	X	X	X
280-21683-2	1	T	22:52	X	X	X	X	X
280-21683-3	1	T	22:55	X	X	X	X	X
280-21683-4	1	T	22:58	X	X	X	X	X
280-21683-74	1	T	23:01	X	X	X	X	X
CCV 280-94600/24	1		23:04	X	X	X	X	X
CCB 280-94600/25	1		23:06	X	X	X	X	X
CCVL 280-94600/26	1		23:09	X	X	X	X	X
280-21683-76	1	T	23:12	X	X	X	X	X
280-21683-76 SD	5	T	23:15	X	X	X	X	X
280-21683-76 PDS	1	T	23:18	X	X	X	X	X
280-21683-76 MS	1	T	23:21	X	X	X	X	X
280-21683-76 MSD	1	T	23:24	X	X	X	X	X
280-21683-75	1	T	23:27	X	X	X	X	X
CCV 280-94600/33	1		23:29	X	X	X	X	X
CCB 280-94600/34	1		23:32	X	X	X	X	X
CCVL 280-94600/35	1		23:35	X	X	X	X	X
ZZZZZZ			23:38					
ZZZZZZ			23:41					
ZZZZZZ			23:44					
ZZZZZZ			23:47					
ZZZZZZ			23:49					
ZZZZZZ			23:52					
ZZZZZZ			23:55					

ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: MT_024   Method: 6020A

Start Date: 11/02/2011 21:54   End Date: 11/03/2011 05:37

Lab Sample ID	D/F	Type	Time	Cu	Ni	Pb	Sb	Zn
ZZZZZZ			23:58					
ZZZZZZ			00:01					
CCV 280-94600/45	1		00:03	X	X	X	X	X
CCB 280-94600/46	1		00:07	X	X	X	X	X
CCVL 280-94600/47	1		00:09	X	X	X	X	X
MB 280-94294/1-A	1	T	00:12					X
LCS 280-94294/2-A	1	T	00:15					X
280-21683-1	1	T	00:18					X
280-21683-1 SD	5	T	00:21					X
280-21683-1 PDS	1	T	00:24					X
280-21683-1 MS	1	T	00:27					X
280-21683-1 MSD	1	T	00:30					X
280-21683-5	1	T	00:32					X
CCV 280-94600/56	1		00:35	X	X	X	X	X
CCB 280-94600/57	1		00:38	X	X	X	X	X
CCVL 280-94600/58	1		00:41	X	X	X	X	X
280-21683-6	1	T	00:44					X
280-21683-7	1	T	00:47					X
280-21683-8	1	T	00:50					X
280-21683-9	1	T	00:53					X
280-21683-10	1	T	00:56					X
280-21683-11	1	T	00:59					X
280-21683-12	1	T	01:02					X
CCV 280-94600/66	1		01:05	X	X	X	X	X
CCB 280-94600/67	1		01:07	X	X	X	X	X
CCVL 280-94600/68	1		01:10	X	X	X	X	X
280-21683-13	1	T	01:13					X
280-21683-14	1	T	01:16					X
280-21683-15	1	T	01:19					X
280-21683-16	1	T	01:22					X
280-21683-17	1	T	01:25					X
280-21683-18	1	T	01:28					X
280-21683-19	1	T	01:31					X
280-21683-20	1	T	01:34					X
CCV 280-94600/77	1		01:37	X	X	X	X	X
CCB 280-94600/78	1		01:39	X	X	X	X	X
CCVL 280-94600/79	1		01:42	X	X	X	X	X
MB 280-91961/1-A	1	T	01:45	X	X	X	X	X
LCS 280-91961/2-A	1	T	01:48	X	X	X	X	X
280-21683-81	1	T	01:51	X	X	X	X	X
280-21683-81 SD	5	T	01:54	X	X	X	X	X
280-21683-81 PDS	1	T	01:57	X	X	X	X	X

ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/02/2011 21:54 End Date: 11/03/2011 05:37

Lab Sample ID	D/F	Type	Time	Analytes				
				Cu	Ni	Pb	Sb	Zn
280-21683-81 MS	1	T	02:00	X	X	X	X	X
280-21683-81 MSD	1	T	02:03	X	X	X	X	X
280-21683-82	1	T	02:05	X	X	X	X	X
CCV 280-94600/88	1		02:08	X	X	X	X	X
CCB 280-94600/89	1		02:11	X	X	X	X	X
CCVL 280-94600/90	1		02:14	X	X	X	X	X
280-21683-83	1	T	02:18	X	X	X	X	X
280-21683-84	1	T	02:21	X	X	X	X	X
280-21683-85	1	T	02:24	X	X	X	X	X
280-21683-86	1	T	02:27	X	X	X	X	X
280-21683-87	1	T	02:30	X	X	X	X	X
280-21683-88	1	T	02:33	X	X	X	X	X
280-21683-89	1	T	02:36	X	X	X	X	X
CCV 280-94600/98	1		02:39	X	X	X	X	X
CCB 280-94600/99	1		02:41	X	X	X	X	X
CCVL 280-94600/100	1		02:44	X	X	X	X	X
280-21683-90	1	T	02:47	X	X	X	X	X
280-21683-91	1	T	02:50	X	X	X	X	X
280-21683-92	1	T	02:53	X	X	X	X	X
280-21683-93	1	T	02:56	X	X	X	X	X
280-21683-94	1	T	02:59	X	X	X	X	X
280-21683-95	1	T	03:02	X	X	X	X	X
CCV 280-94600/107	1		03:05	X	X	X	X	X
CCB 280-94600/108	1		03:08	X	X	X	X	X
CCVL 280-94600/109	1		03:11	X	X	X	X	X
CCV 280-94600/110			04:00					
CCB 280-94600/111			04:03					
ZZZZZZ			04:06					
ZZZZZZ			04:09					
ZZZZZZ			04:12					
ZZZZZZ			04:15					
ZZZZZZ			04:18					
ZZZZZZ			04:21					
ZZZZZZ			04:23					
ZZZZZZ			04:26					
CCV 280-94600/120			04:29					
CCB 280-94600/121			04:32					
ZZZZZZ			04:35					
ZZZZZZ			04:38					
ZZZZZZ			04:41					
ZZZZZZ			04:44					
ZZZZZZ			04:47					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/02/2011 21:54 End Date: 11/03/2011 05:37

Lab Sample ID	D/F	Type	Time	Cu	Ni	Pb	Sb	Zn														
ZZZZZZ			04:50																			
ZZZZZZ			04:53																			
ZZZZZZ			04:56																			
ZZZZZZ			04:59																			
CCV 280-94600/131			05:02																			
CCB 280-94600/132			05:04																			
ZZZZZZ			05:07																			
ZZZZZZ			05:10																			
ZZZZZZ			05:13																			
ZZZZZZ			05:16																			
ZZZZZZ			05:19																			
ZZZZZZ			05:22																			
ZZZZZZ			05:25																			
ZZZZZZ			05:28																			
ZZZZZZ			05:31																			
CCV 280-94600/142			05:34																			
CCB 280-94600/143			05:37																			

Prep Types

T = Total/NA

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICP-MS Instrument ID: MT_024   Analysis Date: 11/01/11

Lab ID: ITUNE 280-94332/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-7	7.05	0.65	0.94	
Be-9	8.95	0.60	0.72	
Mg-24	24.00	0.65	1.11	
Co-59	59.00	0.60	0.90	
In-115	115.05	0.60	0.65	
Pb-208	208.00	0.55	0.84	
U-238	238.00	0.55	0.68	

FORM XIV - IN

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

ICP-MS Instrument ID: MT_024   Analysis Date: 11/02/11

Lab ID: ITUNE 280-94600/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-7	7.00	0.60	0.45	
Be-9	9.00	0.60	1.29	
Mg-24	24.00	0.60	0.80	
Co-59	59.00	0.60	2.02	
In-115	115.00	0.60	1.05	
Pb-208	207.95	0.55	1.22	
U-238	237.95	0.50	1.67	

FORM XIV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

ICP-MS Instrument ID: MT_024 Start Date: 11/01/2011 End Date: 11/02/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
IC 280-94332/2	18:06	100		100		100		100		100	
IC 280-94332/3	18:09	98		100		100		101		99	
ICV 280-94332/4	18:11	99		101		100		101		99	
ICVL 280-94332/5	18:14	98		102		100		101		100	
ICB 280-94332/6	18:17	98		101		101		101		100	
CRI 280-94332/7	18:20	99		101		100		101		100	
ICSA 280-94332/9	18:26	87		87		85		85		87	
ICSAB 280-94332/10	18:29	87		85		83		86		87	
CCV 280-94332/14	18:40	92		99		98		100		99	
CCB 280-94332/15	18:43	94		99		99		101		99	
CCVL 280-94332/16	18:46	93		100		99		101		100	
CCV 280-94332/17	19:32	82		99		102		102		97	
CCB 280-94332/18	19:35	81		96		99		101		96	
CCVL 280-94332/19	19:38	80		97		98		101		94	
MB 280-91954/1-A	19:41	82		97		98		100		96	
LCS 280-91954/2-A	19:44	82		96		98		100		94	
280-21683-1	19:47	83		98		98		100		95	
280-21683-1 SD	19:50	85		98		98		100		95	
280-21683-1 PDS	19:53	83		98		98		99		96	
280-21683-1 MS	19:55	85		100		99		102		97	
280-21683-1 MSD	19:58	84		101		100		99		96	
280-21683-5	20:01	85		101		100		100		96	
CCV 280-94332/28	20:04	81		98		101		99		93	
CCB 280-94332/29	20:07	82		98		101		99		93	
CCVL 280-94332/30	20:10	83		97		102		98		93	
280-21683-6	20:16	82		100		102		98		93	
280-21683-7	20:19	82		98		102		100		93	
280-21683-8	20:22	82		99		102		99		93	
280-21683-9	20:24	82		99		102		98		93	
280-21683-10	20:27	81		98		100		97		93	
280-21683-11	20:30	81		98		102		98		93	
280-21683-12	20:33	81		98		102		97		93	
280-21683-13	20:36	80		98		101		98		93	
CCV 280-94332/40	20:39	80		97		100		98		92	
CCB 280-94332/41	20:42	81		97		101		98		92	
CCVL 280-94332/42	20:45	80		97		101		98		92	
280-21683-14	20:48	80		98		100		97		92	
280-21683-15	20:51	80		97		101		98		92	
280-21683-16	20:54	80		97		100		98		92	
280-21683-17	20:56	80		96		101		97		91	
280-21683-18	20:59	79		96		100		97		92	
280-21683-19	21:02	80		95		99		96		91	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

ICP-MS Instrument ID: MT_024 Start Date: 11/01/2011 End Date: 11/02/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
280-21683-20	21:05	78		95		99		96		91	
CCV 280-94332/50	21:08	78		95		98		96		90	
CCB 280-94332/51	21:11	78		95		99		97		91	
CCVL 280-94332/52	21:14	78		95		100		97		90	
MB 280-91956/1-A	21:17	78		96		99		97		91	
LCS 280-91956/2-A	21:20	79		96		99		97		91	
280-21683-21	21:23	80		97		100		97		91	
280-21683-21 SD	21:26	80		97		101		98		92	
280-21683-21 PDS	21:28	78		95		99		96		91	
280-21683-21 MS	21:31	78		96		100		95		91	
280-21683-21 MSD	21:34	77		96		99		94		90	
280-21683-22	21:37	78		95		97		95		90	
280-21683-23	21:40	77		95		99		95		91	
CCV 280-94332/62	21:43	77		94		98		96		90	
CCB 280-94332/63	21:46	77		95		99		97		90	
CCVL 280-94332/64	21:49	77		94		98		97		91	
280-21683-24	21:54	77		95		99		95		90	
280-21683-25	21:57	76		95		98		96		90	
280-21683-26	22:00	77		94		97		96		91	
280-21683-27	22:03	76		94		98		95		90	
280-21683-28	22:06	76		94		98		96		91	
280-21683-29	22:09	75		95		99		94		90	
280-21683-30	22:12	75		94		98		95		89	
280-21683-31	22:15	75		95		97		95		89	
280-21683-32	22:18	75		95		98		94		89	
CCV 280-94332/75	22:21	75		93		98		95		89	
CCB 280-94332/76	22:24	74		93		97		95		89	
CCVL 280-94332/77	22:27	75		94		97		96		90	
280-21683-33	22:29	75		94		98		95		89	
280-21683-34	22:32	75		93		97		96		89	
280-21683-35	22:35	74		95		97		94		90	
280-21683-36	22:38	75		94		98		95		88	
280-21683-37	22:41	74		93		97		95		90	
280-21683-38	22:44	74		92		96		93		89	
280-21683-39	22:47	74		93		96		94		89	
280-21683-40	22:50	74		93		96		94		89	
CCV 280-94332/86	22:53	73		92		97		96		88	
CCB 280-94332/87	22:56	73		92		96		95		88	
CCVL 280-94332/88	22:59	73		92		96		95		88	
MB 280-91958/1-A	23:02	73		92		96		96		88	
LCS 280-91958/2-A	23:05	73		92		95		94		88	
280-21683-41	23:07	73		93		96		94		89	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

ICP-MS Instrument ID: MT_024 Start Date: 11/01/2011 End Date: 11/02/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
280-21683-41 SD	23:10	73		92		97		95		88	
280-21683-41 PDS	23:13	73		91		93		92		87	
280-21683-41 MS	23:16	71		91		95		93		88	
280-21683-41 MSD	23:19	72		91		95		93		87	
280-21683-42	23:22	72		92		95		93		88	
280-21683-43	23:25	72		93		96		94		89	
CCV 280-94332/98	23:28	71		90		95		94		88	
CCB 280-94332/99	23:30	71		91		95		94		86	
CCVL 280-94332/100	23:33	70		91		96		95		87	
280-21683-44	23:36	71		93		96		94		89	
280-21683-45	23:39	72		91		95		94		88	
280-21683-46	23:42	71		91		94		93		88	
280-21683-47	23:45	71		90		94		93		88	
280-21683-48	23:48	71		90		95		93		88	
280-21683-49	23:51	70		90		93		92		87	
280-21683-50	23:54	70		90		93		92		88	
280-21683-51	23:57	69		89		94		91		87	
280-21683-52	00:00	70		90		93		92		87	
CCV 280-94332/110	00:03	69	Q	89		93		93		87	
CCB 280-94332/111	00:05	69	Q	90		93		93		86	
CCVL 280-94332/112	00:08	69		89		93		93		87	
280-21683-53	00:11	70		90		94		92		88	
280-21683-54	00:14	69		90		93		93		87	
280-21683-55	00:17	70		91		94		93		88	
280-21683-56	00:20	69		90		95		93		87	
280-21683-57	00:23	69		90		94		93		87	
280-21683-58	00:26	69		90		95		93		88	
280-21683-59	00:29	69		91		95		93		87	
280-21683-60	00:32	70		90		95		94		87	
CCV 280-94332/121	00:35	68	Q	89		94		93		85	
CCB 280-94332/122	00:38	68	Q	89		94		94		86	
CCVL 280-94332/123	00:41	68		90		94		93		86	
MB 280-91960/1-A	00:43	69		90		94		94		87	
LCS 280-91960/2-A	00:46	69		88		93		92		86	
280-21683-61	00:49	68		90		94		92		87	
280-21683-61 SD	00:52	69		90		93		93		87	
280-21683-61 PDS	00:55	66		86		87		91		87	
280-21683-61 MS	00:58	66		87		87		92		88	
280-21683-61 MSD	01:01	66		87		89		92		87	
280-21683-62	01:04	66		87		88		92		88	
CCV 280-94332/132	01:07	65	Q	85		88		91		87	
CCB 280-94332/133	01:09	66	Q	86		88		93		86	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

ICP-MS Instrument ID: MT_024 Start Date: 11/01/2011 End Date: 11/02/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
CCVL 280-94332/134	01:12	66		87		89		92		88	
280-21683-63	01:15	66		86		88		92		87	
280-21683-64	01:18	66		87		88		93		88	
280-21683-65	01:21	65		87		88		91		87	
280-21683-66	01:24	66		87		88		92		88	
280-21683-67	01:27	66		87		88		92		88	
280-21683-68	01:30	66		87		89		93		87	
280-21683-69	01:33	65		86		88		91		86	
280-21683-70	01:36	65		86		88		90		87	
CCV 280-94332/143	01:39	64	Q	84		87		91		86	
CCB 280-94332/144	01:42	64	Q	85		88		91		86	
CCVL 280-94332/145	01:45	64		85		88		92		87	
280-21683-71	01:47	64		85		87		91		87	
280-21683-72	01:50	64		86		87		92		87	
280-21683-73	01:53	65		85		88		91		87	
280-21683-77	01:56	64		87		87		91		88	
280-21683-78	01:59	65		87		88		91		87	
280-21683-79	02:02	65		87		89		92		88	
280-21683-80	02:05	64		87		89		92		88	
CCV 280-94332/153	02:08	64	Q	87		89		92		87	
CCB 280-94332/154	02:11	63	Q	86		88		93		86	
CCVL 280-94332/155	02:14	64		86		88		92		87	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

ICP-MS Instrument ID: MT_024 Start Date: 11/02/2011 End Date: 11/03/2011

Lab Sample ID	Time	Internal Standards %RI For: Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
IC 280-94600/2	22:00	100		100		100		100		100	
IC 280-94600/3	22:02	101		101		101		100		101	
ICV 280-94600/4	22:05	101		100		99		100		101	
ICVL 280-94600/5	22:08	101		101		100		101		100	
ICB 280-94600/6	22:11	101		102		100		100		101	
CRI 280-94600/7	22:14	101		101		100		102		102	
ICSA 280-94600/9	22:20	87		85		82		82		87	
ICSAB 280-94600/10	22:23	84		81		80		81		86	
CCV 280-94600/15	22:38	91		94		95		97		98	
CCB 280-94600/16	22:40	92		94		95		98		98	
CCVL 280-94600/17	22:43	93		96		96		99		98	
MB 280-94043/1-A	22:46	95		96		97		98		99	
LCS 280-94043/2-A	22:49	96		97		98		99		100	
280-21683-2	22:52	98		99		98		98		99	
280-21683-3	22:55	100		100		99		100		101	
280-21683-4	22:58	99		100		99		100		102	
280-21683-74	23:01	99		100		99		99		100	
CCV 280-94600/24	23:04	97		99		100		101		101	
CCB 280-94600/25	23:06	99		101		101		102		101	
CCVL 280-94600/26	23:09	99		102		102		103		102	
280-21683-76	23:12	100		101		101		101		102	
280-21683-76 SD	23:15	100		103		101		103		102	
280-21683-76 PDS	23:18	101		101		100		101		101	
280-21683-76 MS	23:21	100		102		101		102		101	
280-21683-76 MSD	23:24	101		101		100		101		102	
280-21683-75	23:27	101		102		101		102		101	
CCV 280-94600/33	23:29	101		101		103		103		100	
CCB 280-94600/34	23:32	100		103		103		104		102	
CCVL 280-94600/35	23:35	101		102		103		104		102	
CCV 280-94600/45	00:03	94		98		97		100		98	
CCB 280-94600/46	00:07	95		98		101		101		99	
CCVL 280-94600/47	00:09	95		100		102		102		101	
MB 280-94294/1-A	00:12	96		100		101		102		101	
LCS 280-94294/2-A	00:15	97		101		102		103		100	
280-21683-1	00:18	97		101		100		102		100	
280-21683-1 SD	00:21	98		101		102		102		100	
280-21683-1 PDS	00:24	97		100		99		100		101	
280-21683-1 MS	00:27	98		101		101		101		100	
280-21683-1 MSD	00:30	97		101		100		100		101	
280-21683-5	00:32	100		101		101		102		101	
CCV 280-94600/56	00:35	97		100		101		103		100	
CCB 280-94600/57	00:38	97		101		102		102		100	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

ICP-MS Instrument ID: MT_024 Start Date: 11/02/2011 End Date: 11/03/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
CCVL 280-94600/58	00:41	97		100		101		103		100	
280-21683-6	00:44	99		102		101		102		100	
280-21683-7	00:47	98		103		100		104		100	
280-21683-8	00:50	98		103		102		103		102	
280-21683-9	00:53	99		102		102		103		103	
280-21683-10	00:56	99		103		102		102		102	
280-21683-11	00:59	99		101		101		103		100	
280-21683-12	01:02	99		103		102		103		101	
CCV 280-94600/66	01:05	98		101		102		103		101	
CCB 280-94600/67	01:07	99		102		103		103		102	
CCVL 280-94600/68	01:10	99		102		102		104		101	
280-21683-13	01:13	99		104		102		102		102	
280-21683-14	01:16	100		103		102		103		103	
280-21683-15	01:19	101		103		103		104		102	
280-21683-16	01:22	100		103		102		103		101	
280-21683-17	01:25	101		105		103		103		103	
280-21683-18	01:28	102		104		103		104		101	
280-21683-19	01:31	100		102		102		103		101	
280-21683-20	01:34	100		103		101		104		102	
CCV 280-94600/77	01:37	99		102		101		104		102	
CCB 280-94600/78	01:39	99		102		102		103		101	
CCVL 280-94600/79	01:42	100		102		102		105		102	
MB 280-91961/1-A	01:45	100		103		103		104		101	
LCS 280-91961/2-A	01:48	100		103		102		104		102	
280-21683-81	01:51	100		103		102		103		102	
280-21683-81 SD	01:54	101		104		103		105		102	
280-21683-81 PDS	01:57	101		102		101		102		102	
280-21683-81 MS	02:00	101		102		101		103		103	
280-21683-81 MSD	02:03	102		103		102		103		102	
280-21683-82	02:05	101		104		102		103		102	
CCV 280-94600/88	02:08	101		102		103		104		101	
CCB 280-94600/89	02:11	100		103		103		104		102	
CCVL 280-94600/90	02:14	100		102		103		105		102	
280-21683-83	02:18	103		104		103		104		102	
280-21683-84	02:21	103		105		102		104		102	
280-21683-85	02:24	102		104		103		103		103	
280-21683-86	02:27	103		104		102		105		102	
280-21683-87	02:30	102		104		103		105		103	
280-21683-88	02:33	103		107		104		106		103	
280-21683-89	02:36	103		106		104		106		104	
CCV 280-94600/98	02:39	102		104		103		105		101	
CCB 280-94600/99	02:41	102		103		103		106		102	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

ICP-MS Instrument ID: MT_024 Start Date: 11/02/2011 End Date: 11/03/2011

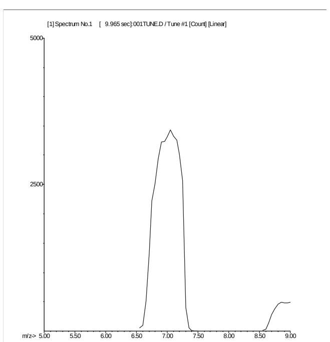
Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
CCVL 280-94600/100	02:44	102		104		104		106		102	
280-21683-90	02:47	104		105		104		105		103	
280-21683-91	02:50	104		106		103		104		102	
280-21683-92	02:53	103		105		103		104		103	
280-21683-93	02:56	102		105		103		105		103	
280-21683-94	02:59	104		106		103		105		104	
280-21683-95	03:02	103		104		103		104		103	
CCV 280-94600/107	03:05	103		104		104		107		102	
CCB 280-94600/108	03:08	102		105		104		106		103	
CCVL 280-94600/109	03:11	103		104		104		106		102	

FORM XV - IN

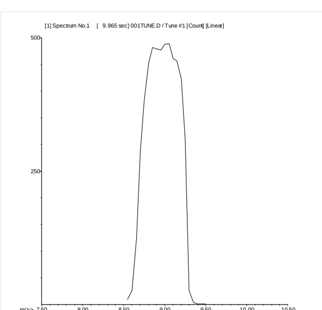
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\001TUNE.D
Date Acquired: Nov 1 2011 06:00 pm
Acq. Method: tun_isis.M
Operator: TEL
Sample Name: ITUNE-1074574
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

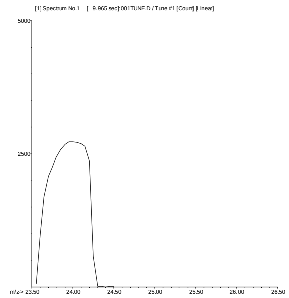
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
7 Li	35509	35243	35405	35353	35453	36092	**0.94**	5.00	
9 Be	5373	5314	5359	5391	5415	5388	**0.72**	5.00	
24 Mg	31156	31176	30582	31262	31523	31235	**1.11**	5.00	
59 Co	236328	233462	237864	237643	234653	238017	**0.90**	5.00	
115 In	2698059	2708056	2668646	2713265	2704258	2696071	**0.65**	5.00	
208 Pb	195491	194062	198046	194384	196139	194822	**0.84**	5.00	
238 U	356855	357825	357512	356751	359355	352833	**0.68**	5.00	



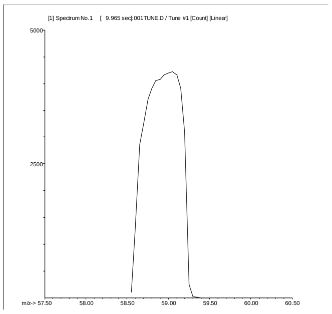
7 Li
Mass Calib.
Actual: 7.05
Required:6.90 - 7.10
Flag:
Peak Width
Actual: 0.65
Required:0.90
Flag:



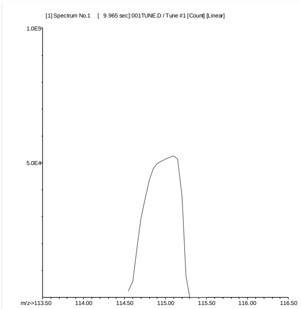
9 Be
Mass Calib.
Actual: 8.95
Required:8.90 - 9.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



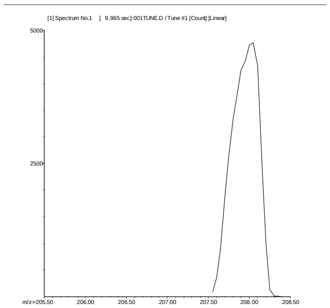
24 Mg
Mass Calib.
Actual: 24.00
Required:23.90 - 24.10
Flag:
Peak Width
Actual: 0.65
Required:0.90
Flag:



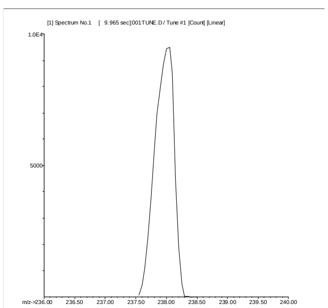
59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



208 Pb
Mass Calib.
Actual: 208.00
Required: 207.90 - 208.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



238 U
Mass Calib.
Actual: 238.00
Required: 237.90 - 238.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:

Tune Result: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#
Date Acquired:	Nov 1 2011 06:06 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1103571
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:04 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	3	173.21
51	V	72	1	649	65.27
52	Cr	72	1	8573	3.44
55	Mn	72	1	3410	10.44
59	Co	72	1	123	33.76
60	Ni	72	1	1067	7.10
63	Cu	72	1	1087	12.43
66	Zn	72	1	775	2.25
75	As	72	1	115	14.21
78	Se	72	1	493	6.19
95	Mo	72	1	163	33.72
107	Ag	115	1	33	69.28
111	Cd	115	1	14	221.10
118	Sn	115	1	727	11.46
121	Sb	115	1	32	11.95
137	Ba	115	1	82	36.56
205	Tl	165	1	190	6.33
208	Pb	165	1	760	10.22
232	Th	165	1	250	20.00
238	U	165	1	71	24.06

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	619221	0.53
45	Sc	1	2917438	1.54
72	Ge	1	1732493	0.91
115	In	1	4820582	1.62
165	Ho	1	9792536	0.31

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\004ICAL.D\004ICAL.D#
Date Acquired:	Nov 1 2011 06:09 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1103560
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:06 pm
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	88646	1.44
51	V	72	1	2547563	1.83
52	Cr	72	1	2749185	1.14
55	Mn	72	1	2433219	1.49
59	Co	72	1	3787350	1.53
60	Ni	72	1	923554	1.32
63	Cu	72	1	2254082	2.32
66	Zn	72	1	383848	0.63
75	As	72	1	270351	0.37
78	Se	72	1	39765	1.76
95	Mo	72	1	1041310	1.76
107	Ag	115	1	3235217	0.63
111	Cd	115	1	531027	0.73
118	Sn	115	1	1412137	2.77
121	Sb	115	1	1521037	1.88
137	Ba	115	1	624732	0.67
205	Tl	165	1	5713263	1.19
208	Pb	165	1	7990790	0.36
232	Th	165	1	7700650	0.83
238	U	165	1	8475107	1.08

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	607132	1.12	619221	98.0	30 - 120	
45	Sc	1	2925272	1.27	2917438	100.3	30 - 120	
72	Ge	1	1734081	1.11	1732493	100.1	30 - 120	
115	In	1	4883976	1.38	4820582	101.3	30 - 120	
165	Ho	1	9691117	0.71	9792536	99.0	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Initial Calibration Verification (ICV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\005_ICV.D\005_ICV.D#
Date Acquired:	Nov 1 2011 06:11 pm
Operator:	TEL
Sample Name:	ICV-1103561
Misc Info:	
Vial Number:	2103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	ICV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	39.24	ppb	1.59	40	98.1	90 - 110	
51	V	72	1	41.32	ppb	2.11	40	103.3	90 - 110	
52	Cr	72	1	41.05	ppb	1.50	40	102.6	90 - 110	
55	Mn	72	1	40.86	ppb	4.46	40	102.2	90 - 110	
59	Co	72	1	41.53	ppb	1.28	40	103.8	90 - 110	
60	Ni	72	1	40.59	ppb	1.15	40	101.5	90 - 110	
63	Cu	72	1	40.04	ppb	0.32	40	100.1	90 - 110	
66	Zn	72	1	39.97	ppb	0.59	40	99.9	90 - 110	
75	As	72	1	41.10	ppb	1.32	40	102.8	90 - 110	
78	Se	72	1	41.86	ppb	4.40	40	104.7	90 - 110	
95	Mo	72	1	40.52	ppb	2.21	40	101.3	90 - 110	
107	Ag	115	1	40.50	ppb	2.09	40	101.3	90 - 110	
111	Cd	115	1	40.70	ppb	0.52	40	101.8	90 - 110	
118	Sn	115	1	39.06	ppb	1.00	40	97.7	90 - 110	
121	Sb	115	1	39.16	ppb	0.66	40	97.9	90 - 110	
137	Ba	115	1	40.39	ppb	1.73	40	101.0	90 - 110	
205	Tl	165	1	40.14	ppb	0.95	40	100.4	90 - 110	
208	Pb	165	1	40.54	ppb	1.06	40	101.4	90 - 110	
232	Th	165	1	40.71	ppb	0.55	40	101.8	90 - 110	
238	U	165	1	39.41	ppb	2.97	40	98.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	611632	1.27	619221	98.8	30 - 120	
45	Sc	1	2945785	1.33	2917438	101.0	30 - 120	
72	Ge	1	1731976	0.53	1732493	100.0	30 - 120	
115	In	1	4877599	1.51	4820582	101.2	30 - 120	
165	Ho	1	9738024	0.80	9792536	99.4	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\006WASH.D\006WASH.D#
Date Acquired: Nov 1 2011 06:14 pm
Operator: TEL
Sample Name: LLICV-1103572
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.034 ppb	9.22	1.30	
51	V	72	1	5.080 ppb	2.32	6.50	
52	Cr	72	1	2.185 ppb	3.53	2.60	
55	Mn	72	1	1.162 ppb	0.73	1.30	
59	Co	72	1	1.094 ppb	1.62	1.30	
60	Ni	72	1	2.161 ppb	0.88	2.60	
63	Cu	72	1	2.191 ppb	1.91	2.60	
66	Zn	72	1	10.250 ppb	0.99	13.00	
75	As	72	1	5.072 ppb	2.35	6.50	
78	Se	72	1	5.076 ppb	10.84	6.50	
95	Mo	72	1	2.179 ppb	2.15	2.60	
107	Ag	115	1	5.079 ppb	1.43	6.50	
111	Cd	115	1	1.063 ppb	1.51	1.30	
118	Sn	115	1	9.940 ppb	0.24	13.00	
121	Sb	115	1	2.173 ppb	1.10	2.60	
137	Ba	115	1	1.091 ppb	2.30	1.30	
205	Tl	165	1	1.124 ppb	0.69	1.30	
208	Pb	165	1	1.067 ppb	1.54	1.30	
232	Th	165	1	2.126 ppb	2.55	2.60	
238	U	165	1	1.069 ppb	0.33	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	609005	0.85	619221	98.4	30 - 120	
45	Sc	1	2963081	1.29	2917438	101.6	30 - 120	
72	Ge	1	1738747	0.76	1732493	100.4	30 - 120	
115	In	1	4880212	1.24	4820582	101.2	30 - 120	
165	Ho	1	9793670	0.07	9792536	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\007_ICB.D\007_ICB.D#
Date Acquired:	Nov 1 2011 06:17 pm
Operator:	TEL
Sample Name:	ICB-1103571
Misc Info:	
Vial Number:	2104
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	ICB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.00	ppb	0.00	1.00	
51	V	72	1	0.00	ppb	9494.30	1.00	
52	Cr	72	1	0.00	ppb	87.60	1.00	
55	Mn	72	1	0.02	ppb	45.59	1.00	
59	Co	72	1	0.00	ppb	109.54	1.00	
60	Ni	72	1	-0.06	ppb	16.54	1.00	
63	Cu	72	1	0.03	ppb	11.97	1.00	
66	Zn	72	1	0.11	ppb	4.62	1.00	
75	As	72	1	0.01	ppb	56.70	1.00	
78	Se	72	1	-0.21	ppb	90.46	1.00	
95	Mo	72	1	0.00	ppb	418.91	1.00	
107	Ag	115	1	0.00	ppb	8.81	1.00	
111	Cd	115	1	0.00	ppb	112.61	1.00	
118	Sn	115	1	0.06	ppb	9.53	1.00	
121	Sb	115	1	0.04	ppb	3.62	1.00	
137	Ba	115	1	0.00	ppb	401.51	1.00	
205	Tl	165	1	0.01	ppb	6.30	1.00	
208	Pb	165	1	0.00	ppb	28.83	1.00	
232	Th	165	1	0.02	ppb	16.06	1.00	
238	U	165	1	0.00	ppb	17.54	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	603895	0.86	619221	97.5	30 - 120	
45	Sc	1	2954950	0.17	2917438	101.3	30 - 120	
72	Ge	1	1752563	0.52	1732493	101.2	30 - 120	
115	In	1	4886118	1.77	4820582	101.4	30 - 120	
165	Ho	1	9747921	0.50	9792536	99.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

RL STD QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\008RLST.D\008RLST.D#
Date Acquired: Nov 1 2011 06:20 pm
Operator: TEL
Sample Name: CRI-1103562
Misc Info:
Vial Number: 2105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: RLSTD
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	0.94	ppb	8.06	1	93.8	80 - 120	
51	V	72	1	0.97	ppb	2.02	1	96.7	80 - 120	
52	Cr	72	1	0.95	ppb	1.17	1	95.0	80 - 120	
55	Mn	72	1	0.96	ppb	2.74	1	95.8	80 - 120	
59	Co	72	1	0.96	ppb	1.93	1	95.8	80 - 120	
60	Ni	72	1	0.94	ppb	4.01	1	94.1	80 - 120	
63	Cu	72	1	1.01	ppb	3.89	1	100.7	80 - 120	
66	Zn	72	1	9.73	ppb	0.49	10	97.3	80 - 120	
75	As	72	1	0.98	ppb	1.98	1	98.1	80 - 120	
78	Se	72	1	1.08	ppb	27.48	1	107.9	80 - 120	
95	Mo	72	1	0.97	ppb	3.22	1	97.3	80 - 120	
107	Ag	115	1	1.01	ppb	1.20	1	100.6	80 - 120	
111	Cd	115	1	1.00	ppb	6.31	1	99.7	80 - 120	
118	Sn	115	1	9.73	ppb	0.07	10	97.3	80 - 120	
121	Sb	115	1	1.00	ppb	0.98	1	100.0	80 - 120	
137	Ba	115	1	1.02	ppb	3.53	1	101.6	80 - 120	
205	Tl	165	1	1.00	ppb	0.67	1	99.6	80 - 120	
208	Pb	165	1	0.96	ppb	0.24	1	95.9	80 - 120	
232	Th	165	1	0.97	ppb	1.72	1	97.0	80 - 120	
238	U	165	1	1.00	ppb	0.41	1	99.9	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	611204	0.88	619221	98.7	30 - 120	
45	Sc	1	2941827	0.70	2917438	100.8	30 - 120	
72	Ge	1	1738758	0.49	1732493	100.4	30 - 120	
115	In	1	4846081	1.10	4820582	100.5	30 - 120	
165	Ho	1	9760393	0.65	9792536	99.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

AFCEE RL QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\009AFCE.D\009AFCE.D#
Date Acquired: Nov 1 2011 06:23 pm
Operator: TEL
Sample Name: AFCEE RL-1103565
Misc Info:
Vial Number: 2106
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: AFCEERL
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	0.21	ppb	14.81	0	113.0	80 - 120	
51	V	72	1	0.18	ppb	4.04	0	90.7	80 - 120	
52	Cr	72	1	0.20	ppb	7.52	0	106.4	80 - 120	
55	Mn	72	1	0.19	ppb	0.13	0	99.8	80 - 120	
59	Co	72	1	0.19	ppb	1.84	0	101.3	80 - 120	
60	Ni	72	1	0.11	ppb	8.71	0	56.3	80 - 120	
63	Cu	72	1	0.20	ppb	4.11	0	98.2	80 - 120	
66	Zn	72	1	1.94	ppb	1.02	2	99.5	80 - 120	
75	As	72	1	0.19	ppb	3.36	0	96.8	80 - 120	
78	Se	72	1	0.11	ppb	206.49	0	52.1	80 - 120	
95	Mo	72	1	0.20	ppb	6.94	0	102.9	80 - 120	
107	Ag	115	1	0.20	ppb	3.17	0	100.5	80 - 120	
111	Cd	115	1	0.21	ppb	1.00	0	103.0	80 - 120	
118	Sn	115	1	1.91	ppb	1.83	2	98.2	80 - 120	
121	Sb	115	1	0.21	ppb	6.10	0	104.0	80 - 120	
137	Ba	115	1	0.20	ppb	6.25	0	98.8	80 - 120	
205	Tl	165	1	0.20	ppb	1.48	0	101.0	80 - 120	
208	Pb	165	1	0.20	ppb	0.69	0	102.1	80 - 120	
232	Th	165	1	0.20	ppb	3.81	0	101.0	80 - 120	
238	U	165	1	0.20	ppb	1.11	0	98.0	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	603781	1.25	619221	97.5	30 - 120	
45	Sc	1	2940618	2.18	2917438	100.8	30 - 120	
72	Ge	1	1732808	1.38	1732493	100.0	30 - 120	
115	In	1	4886665	0.33	4820582	101.4	30 - 120	
165	Ho	1	9805945	0.90	9792536	100.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\010ICSA.D\010ICSA.D#
Date Acquired:	Nov 1 2011 06:26 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	ICSA-1103567
Misc Info:	
Vial Number:	2108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	ICSA
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit ppb	Flag
9	Be	6	1	0.00	ppb	1296.30	1.00	
51	V	72	1	0.18	ppb	32.94	1.00	
52	Cr	72	1	1.14	ppb	2.87	1.00	
55	Mn	72	1	0.34	ppb	3.45	1.00	
59	Co	72	1	0.05	ppb	8.30	1.00	
60	Ni	72	1	0.69	ppb	5.18	1.00	
63	Cu	72	1	0.37	ppb	3.72	1.00	
66	Zn	72	1	2.66	ppb	3.16	10.00	
75	As	72	1	0.53	ppb	2.73	1.00	
78	Se	72	1	-0.06	ppb	139.23	1.00	
95	Mo	72	1	2092.00	ppb	1.65	2000.00	
107	Ag	115	1	0.06	ppb	2.68	1.00	
111	Cd	115	1	0.67	ppb	24.22	1.00	
118	Sn	115	1	0.11	ppb	10.94	10.00	
121	Sb	115	1	0.29	ppb	2.70	1.00	
137	Ba	115	1	0.18	ppb	3.19	1.00	
205	Tl	165	1	0.04	ppb	36.72	1.00	
208	Pb	165	1	0.13	ppb	2.10	1.00	
232	Th	165	1	0.03	ppb	6.37	1.00	
238	U	165	1	0.00	ppb	33.26	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539119	1.02	619221	87.1	30 - 120	
45	Sc	1	2540949	0.87	2917438	87.1	30 - 120	
72	Ge	1	1463677	2.02	1732493	84.5	30 - 120	
115	In	1	4105142	0.43	4820582	85.2	30 - 120	
165	Ho	1	8544129	1.08	9792536	87.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\011ICSB.D\011ICSB.D#
Date Acquired: Nov 1 2011 06:29 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: ICSAB-1103568
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9	Be	6	1	101.00	2.27	100	101.0	80 - 120	
51	V	72	1	106.20	2.58	100	106.2	80 - 120	
52	Cr	72	1	101.00	2.46	100	101.0	80 - 120	
55	Mn	72	1	99.40	0.82	100	99.4	80 - 120	
59	Co	72	1	97.41	2.00	100	97.4	80 - 120	
60	Ni	72	1	93.96	1.19	100	94.0	80 - 120	
63	Cu	72	1	92.76	1.94	100	92.8	80 - 120	
66	Zn	72	1	98.96	0.20	100	99.0	80 - 120	
75	As	72	1	105.50	1.31	100	105.5	80 - 120	
78	Se	72	1	110.30	0.93	100	110.3	80 - 120	
95	Mo	72	1	2237.00	1.52	2100	106.5	80 - 120	
107	Ag	115	1	89.19	1.33	100	89.2	80 - 120	
111	Cd	115	1	97.34	0.35	100	97.3	80 - 120	
118	Sn	115	1	102.00	0.77	100	102.0	80 - 120	
121	Sb	115	1	105.00	0.20	100	105.0	80 - 120	
137	Ba	115	1	104.70	0.33	100	104.7	80 - 120	
205	Tl	165	1	92.24	0.61	100	92.2	80 - 120	
208	Pb	165	1	91.33	1.14	100	91.3	80 - 120	
232	Th	165	1	101.00	1.41	100	101.0	80 - 120	
238	U	165	1	98.22	0.89	100	98.2	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	538571	0.85	619221	87.0	30 - 120	
45	Sc	1	2486674	1.40	2917438	85.2	30 - 120	
72	Ge	1	1433612	0.46	1732493	82.7	30 - 120	
115	In	1	4124657	0.70	4820582	85.6	30 - 120	
165	Ho	1	8552625	1.16	9792536	87.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\012WASH.D\012WASH.D#
Date Acquired: Nov 1 2011 06:32 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.008 ppb	145.53	1.30	
51	V	72	1	0.002 ppb	502.64	6.50	
52	Cr	72	1	-0.012 ppb	47.23	2.60	
55	Mn	72	1	0.007 ppb	55.10	1.30	
59	Co	72	1	0.006 ppb	32.80	1.30	
60	Ni	72	1	-0.055 ppb	2.90	2.60	
63	Cu	72	1	0.005 ppb	118.81	2.60	
66	Zn	72	1	-0.004 ppb	94.91	13.00	
75	As	72	1	0.007 ppb	34.70	6.50	
78	Se	72	1	-0.106 ppb	245.89	6.50	
95	Mo	72	1	0.379 ppb	3.70	2.60	
107	Ag	115	1	0.007 ppb	22.44	6.50	
111	Cd	115	1	0.013 ppb	25.76	1.30	
118	Sn	115	1	0.010 ppb	80.50	13.00	
121	Sb	115	1	0.017 ppb	17.88	2.60	
137	Ba	115	1	0.004 ppb	57.88	1.30	
205	Tl	165	1	0.013 ppb	6.37	1.30	
208	Pb	165	1	0.007 ppb	25.48	1.30	
232	Th	165	1	0.021 ppb	16.28	2.60	
238	U	165	1	0.013 ppb	9.29	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	587899	1.35	619221	94.9	30 - 120	
45	Sc	1	2789277	0.78	2917438	95.6	30 - 120	
72	Ge	1	1684561	1.37	1732493	97.2	30 - 120	
115	In	1	4789357	1.21	4820582	99.4	30 - 120	
165	Ho	1	9603825	0.44	9792536	98.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Linear Dynamic Range Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\013_LR.D\013_LR.D#
Date Acquired:	Nov 1 2011 06:35 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	LRA-1103569
Misc Info:	
Vial Number:	2110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	LR
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1018.00 ppb	0.63	1000	101.8	90 - 110	
51	V	72	1	948.10 ppb	0.61	1000	94.8	90 - 110	
52	Cr	72	1	961.00 ppb	0.77	1000	96.1	90 - 110	
55	Mn	72	1	959.10 ppb	0.69	1000	95.9	90 - 110	
59	Co	72	1	984.90 ppb	0.37	1000	98.5	90 - 110	
60	Ni	72	1	982.90 ppb	0.26	1000	98.3	90 - 110	
63	Cu	72	1	966.70 ppb	0.46	1000	96.7	90 - 110	
66	Zn	72	1	1000.00 ppb	1.18	1000	100.0	90 - 110	
75	As	72	1	1018.00 ppb	0.37	1000	101.8	90 - 110	
78	Se	72	1	1004.00 ppb	0.24	1000	100.4	90 - 110	
95	Mo	72	1	1018.00 ppb	0.71	1000	101.8	90 - 110	
107	Ag	115	1	996.80 ppb	0.90	1000	99.7	90 - 110	
111	Cd	115	1	1002.00 ppb	0.25	1000	100.2	90 - 110	
118	Sn	115	1	973.90 ppb	0.47	1000	97.4	90 - 110	
121	Sb	115	1	979.40 ppb	0.91	1000	97.9	90 - 110	
137	Ba	115	1	1018.00 ppb	1.25	1000	101.8	90 - 110	
205	Tl	165	1	991.80 ppb	1.30	1000	99.2	90 - 110	
208	Pb	165	1	968.50 ppb	0.79	1000	96.9	90 - 110	
232	Th	165	1	1008.00 ppb	1.11	1000	100.8	90 - 110	
238	U	165	1	1003.00 ppb	1.38	1000	100.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	561993	0.66	619221	90.8	30 - 120	
45	Sc	1	2722496	1.07	2917438	93.3	30 - 120	
72	Ge	1	1639134	0.45	1732493	94.6	30 - 120	
115	In	1	4666939	1.38	4820582	96.8	30 - 120	
165	Ho	1	9564941	0.84	9792536	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\014WASH.D\014WASH.D#
Date Acquired: Nov 1 2011 06:37 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.057 ppb	56.85	1.30	
51	V	72	1	0.050 ppb	52.11	6.50	
52	Cr	72	1	0.054 ppb	33.69	2.60	
55	Mn	72	1	0.052 ppb	14.85	1.30	
59	Co	72	1	0.054 ppb	14.90	1.30	
60	Ni	72	1	-0.021 ppb	73.92	2.60	
63	Cu	72	1	0.050 ppb	12.97	2.60	
66	Zn	72	1	0.047 ppb	7.88	13.00	
75	As	72	1	0.082 ppb	13.94	6.50	
78	Se	72	1	0.170 ppb	102.53	6.50	
95	Mo	72	1	0.240 ppb	3.68	2.60	
107	Ag	115	1	0.087 ppb	12.90	6.50	
111	Cd	115	1	0.055 ppb	9.96	1.30	
118	Sn	115	1	0.354 ppb	11.37	13.00	
121	Sb	115	1	0.142 ppb	1.41	2.60	
137	Ba	115	1	0.053 ppb	24.79	1.30	
205	Tl	165	1	0.141 ppb	10.03	1.30	
208	Pb	165	1	0.057 ppb	8.53	1.30	
232	Th	165	1	0.141 ppb	4.45	2.60	
238	U	165	1	0.104 ppb	8.01	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	567030	0.88	619221	91.6	30 - 120	
45	Sc	1	2808921	0.73	2917438	96.3	30 - 120	
72	Ge	1	1672176	1.69	1732493	96.5	30 - 120	
115	In	1	4828949	2.11	4820582	100.2	30 - 120	
165	Ho	1	9641067	1.11	9792536	98.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\015_CCV.D\015_CCV.D#
Date Acquired:	Nov 1 2011 06:40 pm
Operator:	TEL
Sample Name:	CCV-1103570
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.52	ppb	2.39	50	101.0	90 - 110	
51	V	72	1	50.85	ppb	0.71	50	101.7	90 - 110	
52	Cr	72	1	50.44	ppb	1.14	50	100.9	90 - 110	
55	Mn	72	1	50.47	ppb	0.86	50	100.9	90 - 110	
59	Co	72	1	50.24	ppb	1.44	50	100.5	90 - 110	
60	Ni	72	1	49.61	ppb	0.96	50	99.2	90 - 110	
63	Cu	72	1	51.11	ppb	0.88	50	102.2	90 - 110	
66	Zn	72	1	49.66	ppb	0.44	50	99.3	90 - 110	
75	As	72	1	49.93	ppb	0.93	50	99.9	90 - 110	
78	Se	72	1	50.86	ppb	3.92	50	101.7	90 - 110	
95	Mo	72	1	50.76	ppb	0.45	50	101.5	90 - 110	
107	Ag	115	1	50.78	ppb	1.46	50	101.6	90 - 110	
111	Cd	115	1	49.95	ppb	1.41	50	99.9	90 - 110	
118	Sn	115	1	48.86	ppb	0.90	50	97.7	90 - 110	
121	Sb	115	1	49.20	ppb	0.62	50	98.4	90 - 110	
137	Ba	115	1	51.04	ppb	0.99	50	102.1	90 - 110	
205	Tl	165	1	50.29	ppb	1.01	50	100.6	90 - 110	
208	Pb	165	1	49.45	ppb	0.83	50	98.9	90 - 110	
232	Th	165	1	50.42	ppb	1.57	50	100.8	90 - 110	
238	U	165	1	49.95	ppb	0.46	50	99.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	570434	1.39	619221	92.1	30 - 120	
45	Sc	1	2872933	0.66	2917438	98.5	30 - 120	
72	Ge	1	1703035	0.56	1732493	98.3	30 - 120	
115	In	1	4829940	0.80	4820582	100.2	30 - 120	
165	Ho	1	9683215	0.50	9792536	98.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\016_CCB.D\016_CCB.D#
Date Acquired:	Nov 1 2011 06:43 pm
Operator:	TEL
Sample Name:	CCB-1103571
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.016	ppb	42.89	1.00	
51	V	72	1	0.001	ppb	1332.40	1.00	
52	Cr	72	1	-0.008	ppb	174.19	1.00	
55	Mn	72	1	0.015	ppb	11.63	1.00	
59	Co	72	1	0.011	ppb	28.75	1.00	
60	Ni	72	1	-0.067	ppb	3.19	1.00	
63	Cu	72	1	0.013	ppb	18.71	1.00	
66	Zn	72	1	0.025	ppb	63.27	1.00	
75	As	72	1	0.025	ppb	29.58	1.00	
78	Se	72	1	-0.052	ppb	167.71	1.00	
95	Mo	72	1	0.050	ppb	1.90	1.00	
107	Ag	115	1	0.018	ppb	6.81	1.00	
111	Cd	115	1	0.013	ppb	29.90	1.00	
118	Sn	115	1	0.078	ppb	15.89	1.00	
121	Sb	115	1	0.031	ppb	7.77	1.00	
137	Ba	115	1	0.009	ppb	8.81	1.00	
205	Tl	165	1	0.039	ppb	3.72	1.00	
208	Pb	165	1	0.015	ppb	7.32	1.00	
232	Th	165	1	0.048	ppb	2.14	1.00	
238	U	165	1	0.018	ppb	5.99	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	579677	1.30	619221	93.6	30 - 120	
45	Sc	1	2888060	0.92	2917438	99.0	30 - 120	
72	Ge	1	1709573	0.83	1732493	98.7	30 - 120	
115	In	1	4867188	0.58	4820582	101.0	30 - 120	
165	Ho	1	9686570	1.41	9792536	98.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\017WASH.D\017WASH.D#
Date Acquired: Nov 1 2011 06:46 pm
Operator: TEL
Sample Name: LLICV-1103572
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.131	ppb	2.19	1.30	
51	V	72	1	5.088	ppb	0.44	6.50	
52	Cr	72	1	2.215	ppb	1.88	2.60	
55	Mn	72	1	1.191	ppb	3.35	1.30	
59	Co	72	1	1.081	ppb	4.33	1.30	
60	Ni	72	1	2.125	ppb	6.00	2.60	
63	Cu	72	1	2.204	ppb	2.87	2.60	
66	Zn	72	1	10.320	ppb	0.84	13.00	
75	As	72	1	5.171	ppb	0.20	6.50	
78	Se	72	1	5.002	ppb	5.28	6.50	
95	Mo	72	1	2.204	ppb	3.12	2.60	
107	Ag	115	1	5.122	ppb	2.33	6.50	
111	Cd	115	1	1.083	ppb	0.74	1.30	
118	Sn	115	1	9.900	ppb	1.08	13.00	
121	Sb	115	1	2.059	ppb	0.77	2.60	
137	Ba	115	1	1.120	ppb	1.44	1.30	
205	Tl	165	1	1.088	ppb	0.70	1.30	
208	Pb	165	1	1.062	ppb	1.12	1.30	
232	Th	165	1	2.071	ppb	0.44	2.60	
238	U	165	1	1.053	ppb	0.99	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	577596	0.62	619221	93.3	30 - 120	
45	Sc	1	2931571	1.10	2917438	100.5	30 - 120	
72	Ge	1	1714384	0.33	1732493	99.0	30 - 120	
115	In	1	4858467	1.08	4820582	100.8	30 - 120	
165	Ho	1	9818220	1.02	9792536	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\018AREF.D\018AREF.D#
Date Acquired:	Nov 1 2011 06:49 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21969-d-1-d
Misc Info:	20X 93250 6020
Vial Number:	2201
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	AllRef
Dilution Factor:	20.00
Autodil Factor:	Undiluted
Final Dil Factor:	20.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.32	0.02	ppb	42.19	3600	
51	V	72	1	0.82	0.04	ppb	25.36	3600	
52	Cr	72	1	0.55	0.03	ppb	31.18	3600	
55	Mn	72	1	763.40	38.17	ppb	0.16	18000	
59	Co	72	1	1.18	0.06	ppb	13.58	3600	
60	Ni	72	1	18.54	0.93	ppb	2.85	3600	
63	Cu	72	1	2.85	0.14	ppb	13.61	3600	
66	Zn	72	1	4.68	0.23	ppb	16.24	3600	
75	As	72	1	1.08	0.05	ppb	21.67	3600	
78	Se	72	1	2,362.00	118.10	ppb	0.36	3600	
95	Mo	72	1	3.59	0.18	ppb	6.05	3600	
107	Ag	115	1	0.16	0.01	ppb	36.25	3600	
111	Cd	115	1	1.46	0.07	ppb	9.38	3600	
118	Sn	115	1	0.96	0.05	ppb	36.77	3600	
121	Sb	115	1	0.45	0.02	ppb	6.41	3600	
137	Ba	115	1	13.46	0.67	ppb	3.67	3600	
205	Tl	165	1	1.65	0.08	ppb	21.88	3600	
208	Pb	165	1	0.53	0.03	ppb	3.69	3600	
232	Th	165	1	0.62	0.03	ppb	13.11	1000	
238	U	165	1	21.06	1.05	ppb	1.25	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	573496	0.68	619221	92.6	30 - 120	
45	Sc	1	2831019	1.51	2917438	97.0	30 - 120	
72	Ge	1	1617775	1.17	1732493	93.4	30 - 120	
115	In	1	4579294	0.45	4820582	95.0	30 - 120	
165	Ho	1	9354924	1.09	9792536	95.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\019SDIL.D\019SDIL.D#
Date Acquired: Nov 1 2011 06:52 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21969-d-1-d SD@100
Misc Info: SERIAL DILUTION
Vial Number: 2202
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SDIL
Dilution Factor: 20.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110111.B\018AREF.D\018AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.01	ppb	149.14	0.00	378.8	90 - 110	
51 V	72	1	-0.01	ppb	535.98	0.01	-67.2	90 - 110	
52 Cr	72	1	0.00	ppb	240.01	0.01	-17.6	90 - 110	
55 Mn	72	1	7.54	ppb	1.01	7.63	98.8	90 - 110	
59 Co	72	1	0.01	ppb	10.16	0.01	118.3	90 - 110	
60 Ni	72	1	0.11	ppb	14.38	0.19	58.0	90 - 110	
63 Cu	72	1	0.04	ppb	37.41	0.03	148.6	90 - 110	
66 Zn	72	1	0.10	ppb	13.09	0.05	207.2	90 - 110	
75 As	72	1	0.01	ppb	71.58	0.01	114.4	90 - 110	
78 Se	72	1	21.71	ppb	3.52	23.62	91.9	90 - 110	
95 Mo	72	1	0.05	ppb	8.24	0.04	136.7	90 - 110	
107 Ag	115	1	0.00	ppb	47.00	0.00	279.5	90 - 110	
111 Cd	115	1	0.02	ppb	1.80	0.01	142.8	90 - 110	
118 Sn	115	1	0.07	ppb	38.24	0.01	766.7	90 - 110	
121 Sb	115	1	0.01	ppb	7.63	0.00	299.3	90 - 110	
137 Ba	115	1	0.13	ppb	8.63	0.13	97.5	90 - 110	
205 Tl	165	1	0.01	ppb	9.85	0.02	87.7	90 - 110	
208 Pb	165	1	0.01	ppb	8.81	0.01	148.1	90 - 110	
232 Th	165	1	0.01	ppb	9.93	0.01	216.2	90 - 110	
238 U	165	1	0.21	ppb	0.88	0.21	101.1	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	571245	0.21	619221	92.3	30 - 120	
45 Sc	1	2820781	1.24	2917438	96.7	30 - 120	
72 Ge	1	1696982	1.30	1732493	98.0	30 - 120	
115 In	1	4718109	0.69	4820582	97.9	30 - 120	
165 Ho	1	9544502	0.94	9792536	97.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\020PDS.D\020PDS.D#
Date Acquired:	Nov 1 2011 06:55 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21969-d-1-d PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	2203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	PDS
Prep Dil. Factor:	20.00
Autodil Factor:	Undiluted
Final Dil Factor:	20.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	202.80	0.02	ppb	0.57	200	101.4	75 - 125	
51 V	72	1	197.20	0.04	ppb	1.40	200	98.6	75 - 125	
52 Cr	72	1	191.70	0.03	ppb	0.99	200	95.8	75 - 125	
55 Mn	72	1	228.60	38.17	ppb	1.53	200	96.0	75 - 125	
59 Co	72	1	190.00	0.06	ppb	0.70	200	95.0	75 - 125	
60 Ni	72	1	194.60	0.93	ppb	0.30	200	96.9	75 - 125	
63 Cu	72	1	189.30	0.14	ppb	0.92	200	94.6	75 - 125	
66 Zn	72	1	192.10	0.23	ppb	0.18	200	95.9	75 - 125	
75 As	72	1	201.90	0.05	ppb	0.17	200	100.9	75 - 125	
78 Se	72	1	322.70	118.10	ppb	1.04	200	101.4	75 - 125	
95 Mo	72	1	209.30	0.18	ppb	0.66	200	104.6	75 - 125	
107 Ag	115	1	47.50	0.01	ppb	1.36	50	95.0	75 - 125	
111 Cd	115	1	200.00	0.07	ppb	0.25	200	100.0	75 - 125	
118 Sn	115	1	197.80	0.05	ppb	1.38	200	98.9	75 - 125	
121 Sb	115	1	200.50	0.02	ppb	0.51	200	100.2	75 - 125	
137 Ba	115	1	207.50	0.67	ppb	1.26	200	103.4	75 - 125	
205 Tl	165	1	187.50	0.08	ppb	0.79	200	93.7	75 - 125	
208 Pb	165	1	183.80	0.03	ppb	0.49	200	91.9	75 - 125	
232 Th	165	1	0.09	0.03	ppb	4.08	200	0.0	75 - 125	
238 U	165	1	193.60	1.05	ppb	2.93	200	96.3	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	554876	1.66	619221	89.6	30 - 120	
45 Sc	1	2745389	1.05	2917438	94.1	30 - 120	
72 Ge	1	1598911	0.85	1732493	92.3	30 - 120	
115 In	1	4515613	0.21	4820582	93.7	30 - 120	
165 Ho	1	9246135	1.25	9792536	94.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\021_MS.D\021_MS.D#		
Date Acquired:	Nov 1 2011 06:57 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	TEL	ISTD:	Pass
Sample Name:	280-21969-d-1-e ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	2204		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 01 2011 06:09 pm		
Sample Type:	MS		
Prep Dil. Factor:	20.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	20.00		

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	2.21	0.02	ppb	7.10	40	5.5	50 - 150	
51	V	72	1	2.24	0.04	ppb	0.65	40	5.6	50 - 150	
52	Cr	72	1	2.12	0.03	ppb	1.92	40	5.3	50 - 150	
55	Mn	72	1	40.68	38.17	ppb	1.75	40	52.0	50 - 150	
59	Co	72	1	2.15	0.06	ppb	0.29	40	5.4	50 - 150	
60	Ni	72	1	2.96	0.93	ppb	0.86	40	7.2	50 - 150	
63	Cu	72	1	2.13	0.14	ppb	2.44	40	5.3	50 - 150	
66	Zn	72	1	2.28	0.23	ppb	1.48	40	5.7	50 - 150	
75	As	72	1	2.24	0.05	ppb	1.45	40	5.6	50 - 150	
78	Se	72	1	122.70	118.10	ppb	0.25	40	77.6	50 - 150	
95	Mo	72	1	2.41	0.18	ppb	2.24	40	6.0	50 - 150	
107	Ag	115	1	2.01	0.01	ppb	1.33	40	5.0	50 - 150	
111	Cd	115	1	2.25	0.07	ppb	1.01	40	5.6	50 - 150	
118	Sn	115	1	1.93	0.05	ppb	3.75	40	4.8	50 - 150	
121	Sb	115	1	2.10	0.02	ppb	1.10	40	5.3	50 - 150	
137	Ba	115	1	2.82	0.67	ppb	1.54	40	6.9	50 - 150	
205	Tl	165	1	2.12	0.08	ppb	0.58	40	5.3	50 - 150	
208	Pb	165	1	2.01	0.03	ppb	2.05	40	5.0	50 - 150	
232	Th	165	1	2.14	0.03	ppb	3.94	40	5.3	50 - 150	
238	U	165	1	3.21	1.05	ppb	1.46	40	7.8	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	560693	0.75	619221	90.5	30 - 120	
45	Sc	1	2804749	1.21	2917438	96.1	30 - 120	
72	Ge	1	1615650	0.80	1732493	93.3	30 - 120	
115	In	1	4571446	0.88	4820582	94.8	30 - 120	
165	Ho	1	9313392	1.05	9792536	95.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\022_MSD.D\022_MSD.D#
Date Acquired:	Nov 1 2011 07:00 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21969-d-1-f msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	2205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	MSD
Dilution Factor:	20.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110111.B\021_MS.D\021_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	2.07	ppb	6.30	2.21	6.26	20	
51	V	72	1	2.18	ppb	2.89	2.24	2.62	20	
52	Cr	72	1	2.07	ppb	0.68	2.12	2.15	20	
55	Mn	72	1	39.62	ppb	0.19	40.68	2.64	20	
59	Co	72	1	2.13	ppb	0.90	2.15	0.94	20	
60	Ni	72	1	2.88	ppb	2.03	2.96	2.60	20	
63	Cu	72	1	2.11	ppb	0.78	2.13	1.04	20	
66	Zn	72	1	2.26	ppb	2.63	2.28	1.06	20	
75	As	72	1	2.19	ppb	0.76	2.24	2.12	20	
78	Se	72	1	118.90	ppb	1.15	122.70	3.15	20	
95	Mo	72	1	2.33	ppb	4.00	2.41	3.20	20	
107	Ag	115	1	2.00	ppb	0.90	2.01	0.60	20	
111	Cd	115	1	2.21	ppb	1.04	2.25	1.93	20	
118	Sn	115	1	1.89	ppb	3.09	1.93	2.25	20	
121	Sb	115	1	2.08	ppb	1.15	2.10	1.15	20	
137	Ba	115	1	2.78	ppb	2.97	2.82	1.46	20	
205	Tl	165	1	2.09	ppb	0.32	2.12	1.09	20	
208	Pb	165	1	2.01	ppb	1.08	2.01	0.35	20	
232	Th	165	1	2.16	ppb	2.40	2.14	0.65	20	
238	U	165	1	3.19	ppb	0.70	3.21	0.69	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	556101	0.77	619221	89.8	30 - 120	
45	Sc	1	2783345	1.11	2917438	95.4	30 - 120	
72	Ge	1	1633515	1.39	1732493	94.3	30 - 120	
115	In	1	4558446	1.26	4820582	94.6	30 - 120	
165	Ho	1	9235522	0.36	9792536	94.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\023_CCV.D\023_CCV.D#
Date Acquired:	Nov 1 2011 07:03 pm
Operator:	TEL
Sample Name:	CCV-1103570
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.10	ppb	3.57	50	104.2	90 - 110	
51	V	72	1	50.56	ppb	2.84	50	101.1	90 - 110	
52	Cr	72	1	50.10	ppb	0.90	50	100.2	90 - 110	
55	Mn	72	1	49.97	ppb	1.52	50	99.9	90 - 110	
59	Co	72	1	50.41	ppb	1.25	50	100.8	90 - 110	
60	Ni	72	1	49.34	ppb	1.31	50	98.7	90 - 110	
63	Cu	72	1	50.29	ppb	0.85	50	100.6	90 - 110	
66	Zn	72	1	49.21	ppb	1.12	50	98.4	90 - 110	
75	As	72	1	50.07	ppb	1.05	50	100.1	90 - 110	
78	Se	72	1	51.09	ppb	4.03	50	102.2	90 - 110	
95	Mo	72	1	49.97	ppb	1.12	50	99.9	90 - 110	
107	Ag	115	1	51.30	ppb	0.94	50	102.6	90 - 110	
111	Cd	115	1	50.36	ppb	0.86	50	100.7	90 - 110	
118	Sn	115	1	48.90	ppb	1.29	50	97.8	90 - 110	
121	Sb	115	1	49.25	ppb	1.14	50	98.5	90 - 110	
137	Ba	115	1	50.63	ppb	1.76	50	101.3	90 - 110	
205	Tl	165	1	50.92	ppb	0.41	50	101.8	90 - 110	
208	Pb	165	1	49.87	ppb	1.14	50	99.7	90 - 110	
232	Th	165	1	50.45	ppb	2.30	50	100.9	90 - 110	
238	U	165	1	50.29	ppb	1.64	50	100.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	547570	1.05	619221	88.4	30 - 120	
45	Sc	1	2717174	0.83	2917438	93.1	30 - 120	
72	Ge	1	1647737	0.91	1732493	95.1	30 - 120	
115	In	1	4671230	0.97	4820582	96.9	30 - 120	
165	Ho	1	9345242	0.95	9792536	95.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\024_CCB.D\024_CCB.D#
Date Acquired: Nov 1 2011 07:06 pm
Operator: TEL
Sample Name: CCB-1103571
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.009	ppb	142.10	1.00	
51	V	72	1	-0.012	ppb	93.70	1.00	
52	Cr	72	1	-0.008	ppb	119.51	1.00	
55	Mn	72	1	0.015	ppb	21.81	1.00	
59	Co	72	1	0.005	ppb	25.65	1.00	
60	Ni	72	1	-0.072	ppb	11.21	1.00	
63	Cu	72	1	0.009	ppb	118.15	1.00	
66	Zn	72	1	0.015	ppb	29.33	1.00	
75	As	72	1	0.017	ppb	21.25	1.00	
78	Se	72	1	-0.121	ppb	122.95	1.00	
95	Mo	72	1	0.024	ppb	19.39	1.00	
107	Ag	115	1	0.019	ppb	104.34	1.00	
111	Cd	115	1	0.011	ppb	16.29	1.00	
118	Sn	115	1	0.040	ppb	27.30	1.00	
121	Sb	115	1	0.019	ppb	10.66	1.00	
137	Ba	115	1	0.005	ppb	61.49	1.00	
205	Tl	165	1	0.023	ppb	6.87	1.00	
208	Pb	165	1	0.009	ppb	11.03	1.00	
232	Th	165	1	0.035	ppb	13.63	1.00	
238	U	165	1	0.010	ppb	11.48	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540326	1.92	619221	87.3	30 - 120	
45	Sc	1	2690062	1.60	2917438	92.2	30 - 120	
72	Ge	1	1592489	1.23	1732493	91.9	30 - 120	
115	In	1	4635916	0.57	4820582	96.2	30 - 120	
165	Ho	1	9244287	0.34	9792536	94.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\025SMPL.D\025SMPL.D#
Date Acquired: Nov 1 2011 07:09 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21888-a-2-h
Misc Info:
Vial Number: 2212
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	101.28	3600	
51	V	72	1	1.48	1.48	ppb	0.93	3600	
52	Cr	72	1	1.43	1.43	ppb	1.85	3600	
55	Mn	72	1	445.90	445.90	ppb	1.04	18000	
59	Co	72	1	5.72	5.72	ppb	0.85	3600	
60	Ni	72	1	8.06	8.06	ppb	1.18	3600	
63	Cu	72	1	77.39	77.39	ppb	2.03	3600	
66	Zn	72	1	46.07	46.07	ppb	0.64	3600	
75	As	72	1	24.77	24.77	ppb	0.61	3600	
78	Se	72	1	4.45	4.45	ppb	6.30	3600	
95	Mo	72	1	28.52	28.52	ppb	1.27	3600	
107	Ag	115	1	0.15	0.15	ppb	4.92	3600	
111	Cd	115	1	0.13	0.13	ppb	16.45	3600	
118	Sn	115	1	2.67	2.67	ppb	1.08	3600	
121	Sb	115	1	7.85	7.85	ppb	2.01	3600	
137	Ba	115	1	54.64	54.64	ppb	1.55	3600	
205	Tl	165	1	0.16	0.16	ppb	7.10	3600	
208	Pb	165	1	1.04	1.04	ppb	0.77	3600	
232	Th	165	1	0.09	0.09	ppb	4.08	1000	
238	U	165	1	3.35	3.35	ppb	0.90	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	529772	1.68	619221	85.6	30 - 120	
45	Sc	1	2670784	2.69	2917438	91.5	30 - 120	
72	Ge	1	1482876	2.83	1732493	85.6	30 - 120	
115	In	1	4274168	3.42	4820582	88.7	30 - 120	
165	Ho	1	8894504	1.78	9792536	90.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\026SMPL.D\026SMPL.D#
Date Acquired: Nov 1 2011 07:12 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21839-h-3-d
Misc Info:
Vial Number: 2211
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	103.82	3600	
51	V	72	1	0.15	0.15	ppb	17.94	3600	
52	Cr	72	1	4.61	4.61	ppb	1.39	3600	
55	Mn	72	1	1,372.00	1372.00	ppb	0.15	18000	
59	Co	72	1	0.19	0.19	ppb	5.26	3600	
60	Ni	72	1	2.38	2.38	ppb	1.95	3600	
63	Cu	72	1	6.70	6.70	ppb	1.78	3600	
66	Zn	72	1	152.20	152.20	ppb	0.66	3600	
75	As	72	1	54.69	54.69	ppb	0.94	3600	
78	Se	72	1	1.59	1.59	ppb	50.18	3600	
95	Mo	72	1	5.76	5.76	ppb	4.03	3600	
107	Ag	115	1	0.03	0.03	ppb	16.99	3600	
111	Cd	115	1	0.15	0.15	ppb	13.99	3600	
118	Sn	115	1	2.38	2.38	ppb	2.87	3600	
121	Sb	115	1	0.33	0.33	ppb	3.04	3600	
137	Ba	115	1	24.80	24.80	ppb	1.08	3600	
205	Tl	165	1	0.04	0.04	ppb	23.20	3600	
208	Pb	165	1	1.03	1.03	ppb	0.88	3600	
232	Th	165	1	0.03	0.03	ppb	8.74	1000	
238	U	165	1	1.10	1.10	ppb	0.23	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	388189	2.19	619221	62.7	30 - 120	
45	Sc	1	1175735	1.01	2917438	40.3	30 - 120	
72	Ge	1	551083	2.26	1732493	31.8	30 - 120	
115	In	1	1878424	2.27	4820582	39.0	30 - 120	
165	Ho	1	4242716	0.70	9792536	43.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\027SMPL.D\027SMPL.D#
Date Acquired:	Nov 1 2011 07:15 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21976-c-2-b
Misc Info:	
Vial Number:	2206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	0.72	3600	
51	V	72	1	0.46	0.46	ppb	6.63	3600	
52	Cr	72	1	0.84	0.84	ppb	3.60	3600	
55	Mn	72	1	2.33	2.33	ppb	1.53	18000	
59	Co	72	1	0.13	0.13	ppb	2.82	3600	
60	Ni	72	1	0.62	0.62	ppb	5.60	3600	
63	Cu	72	1	0.44	0.44	ppb	1.30	3600	
66	Zn	72	1	1.80	1.80	ppb	3.51	3600	
75	As	72	1	0.31	0.31	ppb	1.19	3600	
78	Se	72	1	40.13	40.13	ppb	3.79	3600	
95	Mo	72	1	5.71	5.71	ppb	2.10	3600	
107	Ag	115	1	0.01	0.01	ppb	26.52	3600	
111	Cd	115	1	0.04	0.04	ppb	9.25	3600	
118	Sn	115	1	0.05	0.05	ppb	13.28	3600	
121	Sb	115	1	0.04	0.04	ppb	4.89	3600	
137	Ba	115	1	13.53	13.53	ppb	1.31	3600	
205	Tl	165	1	0.01	0.01	ppb	6.96	3600	
208	Pb	165	1	0.13	0.13	ppb	2.65	3600	
232	Th	165	1	0.13	0.13	ppb	2.71	1000	
238	U	165	1	24.12	24.12	ppb	0.80	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457630	0.64	619221	73.9	30 - 120	
45	Sc	1	2512782	1.45	2917438	86.1	30 - 120	
72	Ge	1	1456949	1.59	1732493	84.1	30 - 120	
115	In	1	4204008	1.09	4820582	87.2	30 - 120	
165	Ho	1	8468090	0.32	9792536	86.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\028SMPL.D\028SMPL.D#
Date Acquired: Nov 1 2011 07:18 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21976-c-3-b
Misc Info:
Vial Number: 2207
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.01	0.01	ppb	0.59	3600	
51 V	72	1	1.67	1.67	ppb	3.85	3600	
52 Cr	72	1	0.78	0.78	ppb	3.17	3600	
55 Mn	72	1	0.27	0.27	ppb	7.46	18000	
59 Co	72	1	28.97	28.97	ppb	0.14	3600	
60 Ni	72	1	6.87	6.87	ppb	1.44	3600	
63 Cu	72	1	2.12	2.12	ppb	0.78	3600	
66 Zn	72	1	5.78	5.78	ppb	1.26	3600	
75 As	72	1	1.35	1.35	ppb	1.74	3600	
78 Se	72	1	332.80	332.80	ppb	1.27	3600	
95 Mo	72	1	18.17	18.17	ppb	0.92	3600	
107 Ag	115	1	0.00	0.00	ppb	39.24	3600	
111 Cd	115	1	0.32	0.32	ppb	5.40	3600	
118 Sn	115	1	0.10	0.10	ppb	3.34	3600	
121 Sb	115	1	0.13	0.13	ppb	6.99	3600	
137 Ba	115	1	23.70	23.70	ppb	0.86	3600	
205 Tl	165	1	0.02	0.02	ppb	4.91	3600	
208 Pb	165	1	0.08	0.08	ppb	3.76	3600	
232 Th	165	1	0.01	0.01	ppb	2.30	1000	
238 U	165	1	56.36	56.36	ppb	0.59	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	371877	0.48	619221	60.1	30 - 120	
45 Sc	1	2099189	1.93	2917438	72.0	30 - 120	
72 Ge	1	1124091	2.02	1732493	64.9	30 - 120	
115 In	1	3394511	1.37	4820582	70.4	30 - 120	
165 Ho	1	6914782	1.61	9792536	70.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\029SMPL.D\029SMPL.D#
Date Acquired:	Nov 1 2011 07:21 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21976-c-4-b
Misc Info:	
Vial Number:	2208
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	271.09	3600	
51	V	72	1	0.29	0.29	ppb	9.98	3600	
52	Cr	72	1	0.39	0.39	ppb	4.32	3600	
55	Mn	72	1	2.08	2.08	ppb	0.93	18000	
59	Co	72	1	0.04	0.04	ppb	4.82	3600	
60	Ni	72	1	0.54	0.54	ppb	4.92	3600	
63	Cu	72	1	0.68	0.68	ppb	3.28	3600	
66	Zn	72	1	1.98	1.98	ppb	1.33	3600	
75	As	72	1	0.31	0.31	ppb	10.86	3600	
78	Se	72	1	128.70	128.70	ppb	1.83	3600	
95	Mo	72	1	15.79	15.79	ppb	0.78	3600	
107	Ag	115	1	0.00	0.00	ppb	38.01	3600	
111	Cd	115	1	0.10	0.10	ppb	9.65	3600	
118	Sn	115	1	0.05	0.05	ppb	33.38	3600	
121	Sb	115	1	0.10	0.10	ppb	3.06	3600	
137	Ba	115	1	9.39	9.39	ppb	1.36	3600	
205	Tl	165	1	0.03	0.03	ppb	1.06	3600	
208	Pb	165	1	0.10	0.10	ppb	1.24	3600	
232	Th	165	1	0.01	0.01	ppb	15.21	1000	
238	U	165	1	13.25	13.25	ppb	1.09	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	436656	1.53	619221	70.5	30 - 120	
45	Sc	1	2506805	1.47	2917438	85.9	30 - 120	
72	Ge	1	1433910	0.95	1732493	82.8	30 - 120	
115	In	1	4076379	0.72	4820582	84.6	30 - 120	
165	Ho	1	8198749	0.49	9792536	83.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\030SMPL.D\030SMPL.D#
Date Acquired:	Nov 1 2011 07:24 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21976-c-5-b
Misc Info:	
Vial Number:	2209
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	541.32	3600	
51	V	72	1	0.11	0.11	ppb	35.50	3600	
52	Cr	72	1	0.24	0.24	ppb	4.46	3600	
55	Mn	72	1	103.80	103.80	ppb	0.31	18000	
59	Co	72	1	3.08	3.08	ppb	2.21	3600	
60	Ni	72	1	0.64	0.64	ppb	3.02	3600	
63	Cu	72	1	0.53	0.53	ppb	3.85	3600	
66	Zn	72	1	1.92	1.92	ppb	2.71	3600	
75	As	72	1	0.55	0.55	ppb	3.35	3600	
78	Se	72	1	60.19	60.19	ppb	4.16	3600	
95	Mo	72	1	9.97	9.97	ppb	1.15	3600	
107	Ag	115	1	0.01	0.01	ppb	115.56	3600	
111	Cd	115	1	0.04	0.04	ppb	7.55	3600	
118	Sn	115	1	0.09	0.09	ppb	9.67	3600	
121	Sb	115	1	0.03	0.03	ppb	8.42	3600	
137	Ba	115	1	5.90	5.90	ppb	0.30	3600	
205	Tl	165	1	0.01	0.01	ppb	6.19	3600	
208	Pb	165	1	0.04	0.04	ppb	2.53	3600	
232	Th	165	1	0.01	0.01	ppb	9.34	1000	
238	U	165	1	7.46	7.46	ppb	0.80	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	425640	1.63	619221	68.7	30 - 120	
45	Sc	1	2434718	2.38	2917438	83.5	30 - 120	
72	Ge	1	1360635	2.58	1732493	78.5	30 - 120	
115	In	1	3958774	1.09	4820582	82.1	30 - 120	
165	Ho	1	7891180	0.83	9792536	80.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\031SMPL.D\031SMPL.D#
Date Acquired:	Nov 1 2011 07:27 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21839-h-3-d
Misc Info:	5X
Vial Number:	2211
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	5.00
Autodil Factor:	Undiluted
Final Dil Factor:	5.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.00	ppb	697.23	3600	
51	V	72	1	0.18	0.04	ppb	225.49	3600	
52	Cr	72	1	6.23	1.25	ppb	2.24	3600	
55	Mn	72	1	1,253.50	250.70	ppb	1.02	18000	
59	Co	72	1	0.22	0.04	ppb	18.19	3600	
60	Ni	72	1	2.55	0.51	ppb	3.90	3600	
63	Cu	72	1	8.41	1.68	ppb	0.99	3600	
66	Zn	72	1	148.00	29.60	ppb	1.25	3600	
75	As	72	1	47.17	9.43	ppb	0.35	3600	
78	Se	72	1	7.13	1.43	ppb	6.39	3600	
95	Mo	72	1	4.89	0.98	ppb	2.31	3600	
107	Ag	115	1	0.02	0.00	ppb	11.96	3600	
111	Cd	115	1	0.14	0.03	ppb	37.62	3600	
118	Sn	115	1	2.38	0.48	ppb	7.36	3600	
121	Sb	115	1	0.28	0.06	ppb	10.14	3600	
137	Ba	115	1	23.48	4.70	ppb	1.30	3600	
205	Tl	165	1	0.03	0.01	ppb	49.75	3600	
208	Pb	165	1	1.06	0.21	ppb	0.90	3600	
232	Th	165	1	0.02	0.00	ppb	14.10	1000	
238	U	165	1	1.06	0.21	ppb	0.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	463856	0.58	619221	74.9	30 - 120	
45	Sc	1	2304653	2.60	2917438	79.0	30 - 120	
72	Ge	1	1256696	1.62	1732493	72.5	30 - 120	
115	In	1	3637805	1.67	4820582	75.5	30 - 120	
165	Ho	1	7270696	0.03	9792536	74.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\032SMPL.D\032SMPL.D#
Date Acquired:	Nov 1 2011 07:30 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21976-c-9-b
Misc Info:	
Vial Number:	2210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.64	0.64	ppb	16.72	3600	
51	V	72	1	31.35	31.35	ppb	0.60	3600	
52	Cr	72	1	23.25	23.25	ppb	0.52	3600	
55	Mn	72	1	268.70	268.70	ppb	1.12	18000	
59	Co	72	1	4.50	4.50	ppb	1.06	3600	
60	Ni	72	1	14.86	14.86	ppb	1.17	3600	
63	Cu	72	1	18.22	18.22	ppb	0.88	3600	
66	Zn	72	1	30.96	30.96	ppb	0.96	3600	
75	As	72	1	3.64	3.64	ppb	0.85	3600	
78	Se	72	1	98.42	98.42	ppb	3.87	3600	
95	Mo	72	1	18.65	18.65	ppb	1.26	3600	
107	Ag	115	1	0.55	0.55	ppb	2.97	3600	
111	Cd	115	1	0.29	0.29	ppb	3.94	3600	
118	Sn	115	1	0.63	0.63	ppb	5.85	3600	
121	Sb	115	1	0.27	0.27	ppb	3.39	3600	
137	Ba	115	1	316.50	316.50	ppb	0.88	3600	
205	Tl	165	1	0.17	0.17	ppb	3.95	3600	
208	Pb	165	1	4.87	4.87	ppb	0.80	3600	
232	Th	165	1	5.59	5.59	ppb	0.35	1000	
238	U	165	1	5.37	5.37	ppb	1.27	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	381596	0.48	619221	61.6	30 - 120	
45	Sc	1	2259696	1.52	2917438	77.5	30 - 120	
72	Ge	1	1177659	1.89	1732493	68.0	30 - 120	
115	In	1	3453703	1.19	4820582	71.6	30 - 120	
165	Ho	1	7062817	1.05	9792536	72.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\033_CCV.D\033_CCV.D#
Date Acquired:	Nov 1 2011 07:32 pm
Operator:	TEL
Sample Name:	CCV-1103570
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.17	ppb	2.78	50	104.3	90 - 110	
51	V	72	1	49.71	ppb	0.71	50	99.4	90 - 110	
52	Cr	72	1	48.54	ppb	0.81	50	97.1	90 - 110	
55	Mn	72	1	48.71	ppb	1.24	50	97.4	90 - 110	
59	Co	72	1	50.18	ppb	1.25	50	100.4	90 - 110	
60	Ni	72	1	49.04	ppb	1.18	50	98.1	90 - 110	
63	Cu	72	1	50.26	ppb	0.81	50	100.5	90 - 110	
66	Zn	72	1	48.38	ppb	0.49	50	96.8	90 - 110	
75	As	72	1	49.92	ppb	0.73	50	99.8	90 - 110	
78	Se	72	1	50.98	ppb	2.66	50	102.0	90 - 110	
95	Mo	72	1	49.47	ppb	0.96	50	98.9	90 - 110	
107	Ag	115	1	51.37	ppb	0.69	50	102.7	90 - 110	
111	Cd	115	1	50.00	ppb	0.37	50	100.0	90 - 110	
118	Sn	115	1	48.67	ppb	0.38	50	97.3	90 - 110	
121	Sb	115	1	48.86	ppb	0.61	50	97.7	90 - 110	
137	Ba	115	1	50.96	ppb	2.13	50	101.9	90 - 110	
205	Tl	165	1	49.27	ppb	1.22	50	98.5	90 - 110	
208	Pb	165	1	47.79	ppb	1.14	50	95.6	90 - 110	
232	Th	165	1	48.32	ppb	2.50	50	96.6	90 - 110	
238	U	165	1	47.26	ppb	1.99	50	94.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	508817	0.48	619221	82.2	30 - 120	
45	Sc	1	2878571	1.88	2917438	98.7	30 - 120	
72	Ge	1	1763816	0.93	1732493	101.8	30 - 120	
115	In	1	4899380	1.07	4820582	101.6	30 - 120	
165	Ho	1	9473754	0.74	9792536	96.7	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\034_CCB.D\034_CCB.D#
Date Acquired: Nov 1 2011 07:35 pm
Operator: TEL
Sample Name: CCB-1103571
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.010	ppb	136.57	1.00	
51	V	72	1	-0.006	ppb	355.83	1.00	
52	Cr	72	1	-0.012	ppb	83.35	1.00	
55	Mn	72	1	0.044	ppb	16.07	1.00	
59	Co	72	1	0.004	ppb	34.17	1.00	
60	Ni	72	1	-0.070	ppb	5.69	1.00	
63	Cu	72	1	0.143	ppb	6.17	1.00	
66	Zn	72	1	0.061	ppb	11.99	1.00	
75	As	72	1	0.019	ppb	29.85	1.00	
78	Se	72	1	0.858	ppb	25.94	1.00	
95	Mo	72	1	0.010	ppb	22.45	1.00	
107	Ag	115	1	0.008	ppb	28.30	1.00	
111	Cd	115	1	0.007	ppb	15.45	1.00	
118	Sn	115	1	0.036	ppb	26.28	1.00	
121	Sb	115	1	0.012	ppb	15.59	1.00	
137	Ba	115	1	0.011	ppb	13.79	1.00	
205	Tl	165	1	0.018	ppb	19.47	1.00	
208	Pb	165	1	0.008	ppb	8.17	1.00	
232	Th	165	1	0.034	ppb	5.98	1.00	
238	U	165	1	0.009	ppb	11.03	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501006	0.95	619221	80.9	30 - 120	
45	Sc	1	2800995	1.39	2917438	96.0	30 - 120	
72	Ge	1	1712268	0.70	1732493	98.8	30 - 120	
115	In	1	4867548	0.60	4820582	101.0	30 - 120	
165	Ho	1	9352453	0.83	9792536	95.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\035WASH.D\035WASH.D#
Date Acquired:	Nov 1 2011 07:38 pm
Operator:	TEL
Sample Name:	LLICV-1103572
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.149 ppb	14.60	1.30	
51	V	72	1	4.956 ppb	1.98	6.50	
52	Cr	72	1	2.115 ppb	1.13	2.60	
55	Mn	72	1	1.151 ppb	1.43	1.30	
59	Co	72	1	1.074 ppb	2.10	1.30	
60	Ni	72	1	2.042 ppb	1.61	2.60	
63	Cu	72	1	2.282 ppb	3.10	2.60	
66	Zn	72	1	10.130 ppb	1.96	13.00	
75	As	72	1	5.148 ppb	1.19	6.50	
78	Se	72	1	5.721 ppb	2.97	6.50	
95	Mo	72	1	2.154 ppb	3.07	2.60	
107	Ag	115	1	4.939 ppb	1.47	6.50	
111	Cd	115	1	1.037 ppb	3.25	1.30	
118	Sn	115	1	9.896 ppb	0.93	13.00	
121	Sb	115	1	1.995 ppb	0.64	2.60	
137	Ba	115	1	1.115 ppb	1.83	1.30	
205	Tl	165	1	1.071 ppb	0.73	1.30	
208	Pb	165	1	1.056 ppb	1.68	1.30	
232	Th	165	1	2.041 ppb	2.13	2.60	
238	U	165	1	1.038 ppb	1.84	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497913	1.66	619221	80.4	30 - 120	
45	Sc	1	2828832	1.99	2917438	97.0	30 - 120	
72	Ge	1	1697746	0.69	1732493	98.0	30 - 120	
115	In	1	4847873	0.76	4820582	100.6	30 - 120	
165	Ho	1	9227722	1.33	9792536	94.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\036_BLK.D\036_BLK.D#
Date Acquired: Nov 1 2011 07:41 pm
Operator: TEL
Sample Name: mb 280-91954/1-a
Misc Info: BLANK 91954 Soil DoD4/6020A
Vial Number: 2301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.023 ppb	56.79	2.00	
51	V	72	1	0.004 ppb	684.45	2.00	
52	Cr	72	1	0.118 ppb	13.57	2.00	
55	Mn	72	1	0.131 ppb	6.06	2.00	
59	Co	72	1	0.004 ppb	11.72	2.00	
60	Ni	72	1	-0.019 ppb	34.12	2.00	
63	Cu	72	1	0.436 ppb	2.19	2.00	
66	Zn	72	1	4.159 ppb	2.67	2.00	Fail
75	As	72	1	0.017 ppb	72.32	2.00	
78	Se	72	1	0.500 ppb	33.73	2.00	
95	Mo	72	1	0.007 ppb	63.44	2.00	
107	Ag	115	1	0.004 ppb	11.03	2.00	
111	Cd	115	1	0.006 ppb	62.96	2.00	
118	Sn	115	1	0.103 ppb	4.56	2.00	
121	Sb	115	1	0.029 ppb	9.30	2.00	
137	Ba	115	1	0.371 ppb	4.12	2.00	
205	Tl	165	1	0.006 ppb	8.51	2.00	
208	Pb	165	1	0.053 ppb	3.78	2.00	
232	Th	165	1	0.015 ppb	8.71	2.00	
238	U	165	1	0.006 ppb	4.54	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	508253	1.22	619221	82.1	30 - 120	
45	Sc	1	2837039	1.54	2917438	97.2	30 - 120	
72	Ge	1	1702132	1.07	1732493	98.2	30 - 120	
115	In	1	4832859	1.53	4820582	100.3	30 - 120	
165	Ho	1	9383109	0.40	9792536	95.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\037_LCS.D\037_LCS.D#
Date Acquired: Nov 1 2011 07:44 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: lcs 280-91954/2-a
Misc Info: LCS
Vial Number: 2302
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.79	1.54	40	102.0	80 - 120	
51	V	72	1	38.89	2.27	40	97.2	80 - 120	
52	Cr	72	1	39.55	0.54	40	98.9	80 - 120	
55	Mn	72	1	39.31	4.96	40	98.3	80 - 120	
59	Co	72	1	39.91	2.36	40	99.8	80 - 120	
60	Ni	72	1	38.69	2.04	40	96.7	80 - 120	
63	Cu	72	1	39.29	1.50	40	98.2	80 - 120	
66	Zn	72	1	40.70	0.92	40	101.8	80 - 120	
75	As	72	1	39.40	1.36	40	98.5	80 - 120	
78	Se	72	1	40.11	5.59	40	100.3	80 - 120	
95	Mo	72	1	39.34	0.58	40	98.4	80 - 120	
107	Ag	115	1	39.44	0.65	40	98.6	80 - 120	
111	Cd	115	1	38.71	1.03	40	96.8	80 - 120	
118	Sn	115	1	38.29	0.64	40	95.7	80 - 120	
121	Sb	115	1	37.89	0.68	40	94.7	80 - 120	
137	Ba	115	1	40.50	0.67	40	101.3	80 - 120	
205	Tl	165	1	40.11	1.08	40	100.3	80 - 120	
208	Pb	165	1	38.94	0.88	40	97.4	80 - 120	
232	Th	165	1	38.57	0.66	40	96.4	80 - 120	
238	U	165	1	38.91	1.07	40	97.3	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	509349	0.73	619221	82.3	30 - 120	
45	Sc	1	2794122	1.96	2917438	95.8	30 - 120	
72	Ge	1	1691366	0.99	1732493	97.6	30 - 120	
115	In	1	4798814	0.02	4820582	99.5	30 - 120	
165	Ho	1	9244807	0.58	9792536	94.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\038AREF.D\038AREF.D#
Date Acquired: Nov 1 2011 07:47 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-1-a
Misc Info:
Vial Number: 2303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.27	0.27	ppb	6.62	3600	
51	V	72	1	19.85	19.85	ppb	1.05	3600	
52	Cr	72	1	10.30	10.30	ppb	1.08	3600	
55	Mn	72	1	111.40	111.40	ppb	1.73	18000	
59	Co	72	1	2.12	2.12	ppb	1.91	3600	
60	Ni	72	1	4.60	4.60	ppb	2.69	3600	
63	Cu	72	1	4.31	4.31	ppb	2.75	3600	
66	Zn	72	1	18.40	18.40	ppb	2.42	3600	
75	As	72	1	4.12	4.12	ppb	1.80	3600	
78	Se	72	1	2.34	2.34	ppb	9.31	3600	
95	Mo	72	1	0.46	0.46	ppb	1.17	3600	
107	Ag	115	1	0.04	0.04	ppb	8.30	3600	
111	Cd	115	1	0.10	0.10	ppb	7.76	3600	
118	Sn	115	1	0.13	0.13	ppb	9.34	3600	
121	Sb	115	1	0.05	0.05	ppb	8.15	3600	
137	Ba	115	1	10.82	10.82	ppb	1.23	3600	
205	Tl	165	1	0.14	0.14	ppb	2.63	3600	
208	Pb	165	1	11.11	11.11	ppb	1.30	3600	
232	Th	165	1	12.20	12.20	ppb	1.30	1000	
238	U	165	1	1.74	1.74	ppb	0.53	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	515295	1.17	619221	83.2	30 - 120	
45	Sc	1	2870731	0.51	2917438	98.4	30 - 120	
72	Ge	1	1698653	1.42	1732493	98.0	30 - 120	
115	In	1	4817590	0.88	4820582	99.9	30 - 120	
165	Ho	1	9301840	1.01	9792536	95.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\039SDIL.D\039SDIL.D#
Date Acquired: Nov 1 2011 07:50 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-1-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110111.B\038AREF.D\038AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.07	ppb	41.07	0.05	124.0	90 - 110	
51	V	72	1	4.01	ppb	1.32	3.97	101.1	90 - 110	
52	Cr	72	1	2.12	ppb	1.07	2.06	102.7	90 - 110	
55	Mn	72	1	22.52	ppb	1.52	22.28	101.1	90 - 110	
59	Co	72	1	0.43	ppb	1.68	0.42	102.5	90 - 110	
60	Ni	72	1	0.87	ppb	3.82	0.92	94.9	90 - 110	
63	Cu	72	1	0.98	ppb	1.46	0.86	113.5	90 - 110	
66	Zn	72	1	3.88	ppb	1.29	3.68	105.4	90 - 110	
75	As	72	1	0.88	ppb	1.21	0.82	106.8	90 - 110	
78	Se	72	1	0.47	ppb	77.71	0.47	99.9	90 - 110	
95	Mo	72	1	0.09	ppb	12.82	0.09	102.4	90 - 110	
107	Ag	115	1	0.01	ppb	29.70	0.01	88.7	90 - 110	
111	Cd	115	1	0.03	ppb	22.18	0.02	137.4	90 - 110	
118	Sn	115	1	0.03	ppb	1.54	0.03	123.1	90 - 110	
121	Sb	115	1	0.01	ppb	18.19	0.01	139.6	90 - 110	
137	Ba	115	1	2.22	ppb	0.95	2.16	102.4	90 - 110	
205	Tl	165	1	0.03	ppb	5.91	0.03	106.0	90 - 110	
208	Pb	165	1	2.26	ppb	1.33	2.22	101.8	90 - 110	
232	Th	165	1	2.46	ppb	2.24	2.44	100.8	90 - 110	
238	U	165	1	0.36	ppb	2.87	0.35	102.2	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	523324	0.22	619221	84.5	30 - 120	
45	Sc	1	2863872	1.89	2917438	98.2	30 - 120	
72	Ge	1	1696234	1.32	1732493	97.9	30 - 120	
115	In	1	4829317	0.98	4820582	100.2	30 - 120	
165	Ho	1	9300474	0.55	9792536	95.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\040PDS.D\040PDS.D#
Date Acquired:	Nov 1 2011 07:53 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-1-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	2305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	211.90	0.27	ppb	1.25	200	105.8	75 - 125	
51 V	72	1	214.30	19.85	ppb	0.66	200	97.5	75 - 125	
52 Cr	72	1	203.40	10.30	ppb	0.98	200	96.7	75 - 125	
55 Mn	72	1	304.30	111.40	ppb	0.67	200	97.7	75 - 125	
59 Co	72	1	198.60	2.12	ppb	0.13	200	98.3	75 - 125	
60 Ni	72	1	209.10	4.60	ppb	1.32	200	102.2	75 - 125	
63 Cu	72	1	200.50	4.31	ppb	0.76	200	98.1	75 - 125	
66 Zn	72	1	209.30	18.40	ppb	1.11	200	95.8	75 - 125	
75 As	72	1	207.50	4.12	ppb	0.89	200	101.7	75 - 125	
78 Se	72	1	203.80	2.34	ppb	1.14	200	100.7	75 - 125	
95 Mo	72	1	207.80	0.46	ppb	0.60	200	103.7	75 - 125	
107 Ag	115	1	50.88	0.04	ppb	0.69	50	101.7	75 - 125	
111 Cd	115	1	200.20	0.10	ppb	1.50	200	100.0	75 - 125	
118 Sn	115	1	199.40	0.13	ppb	2.56	200	99.6	75 - 125	
121 Sb	115	1	199.40	0.05	ppb	0.78	200	99.7	75 - 125	
137 Ba	115	1	224.00	10.82	ppb	1.52	200	106.3	75 - 125	
205 Tl	165	1	195.70	0.14	ppb	1.06	200	97.8	75 - 125	
208 Pb	165	1	200.40	11.11	ppb	1.26	200	94.9	75 - 125	
232 Th	165	1	11.99	12.20	ppb	0.49	200	5.7	75 - 125	
238 U	165	1	188.10	1.74	ppb	0.72	200	93.2	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	516011	0.68	619221	83.3	30 - 120	
45 Sc	1	2870168	1.35	2917438	98.4	30 - 120	
72 Ge	1	1703594	0.90	1732493	98.3	30 - 120	
115 In	1	4773277	1.11	4820582	99.0	30 - 120	
165 Ho	1	9423729	0.72	9792536	96.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\041_MS.D\041_MS.D#
Date Acquired:	Nov 1 2011 07:55 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-1-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	2306
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	41.63	0.27	ppb	2.16	40	103.4	50 - 150	
51 V	72	1	61.64	19.85	ppb	1.38	40	103.0	50 - 150	
52 Cr	72	1	50.63	10.30	ppb	0.83	40	100.7	50 - 150	
55 Mn	72	1	160.30	111.40	ppb	0.59	40	105.9	50 - 150	
59 Co	72	1	42.67	2.12	ppb	2.87	40	101.3	50 - 150	
60 Ni	72	1	43.16	4.60	ppb	1.43	40	96.8	50 - 150	
63 Cu	72	1	41.87	4.31	ppb	1.95	40	94.5	50 - 150	
66 Zn	72	1	56.16	18.40	ppb	1.47	40	96.2	50 - 150	
75 As	72	1	41.80	4.12	ppb	1.26	40	94.7	50 - 150	
78 Se	72	1	40.54	2.34	ppb	1.62	40	95.8	50 - 150	
95 Mo	72	1	35.93	0.46	ppb	2.00	40	88.8	50 - 150	
107 Ag	115	1	38.28	0.04	ppb	1.07	40	95.6	50 - 150	
111 Cd	115	1	38.51	0.10	ppb	1.72	40	96.0	50 - 150	
118 Sn	115	1	6.78	0.13	ppb	3.05	40	16.9	50 - 150	
121 Sb	115	1	6.01	0.05	ppb	2.06	40	15.0	50 - 150	
137 Ba	115	1	52.22	10.82	ppb	1.89	40	102.8	50 - 150	
205 Tl	165	1	38.75	0.14	ppb	1.80	40	96.5	50 - 150	
208 Pb	165	1	48.80	11.11	ppb	1.40	40	95.5	50 - 150	
232 Th	165	1	49.23	12.20	ppb	2.04	40	94.3	50 - 150	
238 U	165	1	39.50	1.74	ppb	0.71	40	94.6	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	523314	0.53	619221	84.5	30 - 120	
45 Sc	1	2914287	0.82	2917438	99.9	30 - 120	
72 Ge	1	1718934	1.77	1732493	99.2	30 - 120	
115 In	1	4894510	1.30	4820582	101.5	30 - 120	
165 Ho	1	9488542	0.99	9792536	96.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\042_MSD.D\042_MSD.D#
Date Acquired:	Nov 1 2011 07:58 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-1-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	2307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110111.B\041_MS.D\041_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	41.48	ppb	1.26	41.63	0.36	20	
51	V	72	1	61.36	ppb	1.81	61.64	0.46	20	
52	Cr	72	1	49.72	ppb	1.98	50.63	1.81	20	
55	Mn	72	1	167.70	ppb	0.91	160.30	4.51	20	
59	Co	72	1	42.00	ppb	0.39	42.67	1.58	20	
60	Ni	72	1	42.88	ppb	1.23	43.16	0.65	20	
63	Cu	72	1	42.44	ppb	1.19	41.87	1.35	20	
66	Zn	72	1	55.97	ppb	1.45	56.16	0.34	20	
75	As	72	1	41.93	ppb	1.14	41.80	0.31	20	
78	Se	72	1	41.11	ppb	1.16	40.54	1.40	20	
95	Mo	72	1	36.01	ppb	0.79	35.93	0.22	20	
107	Ag	115	1	39.59	ppb	1.09	38.28	3.36	20	
111	Cd	115	1	39.44	ppb	1.08	38.51	2.39	20	
118	Sn	115	1	6.97	ppb	1.15	6.78	2.79	20	
121	Sb	115	1	6.13	ppb	0.37	6.01	1.85	20	
137	Ba	115	1	52.24	ppb	0.61	52.22	0.04	20	
205	Tl	165	1	39.36	ppb	1.33	38.75	1.56	20	
208	Pb	165	1	48.99	ppb	1.80	48.80	0.39	20	
232	Th	165	1	48.39	ppb	2.37	49.23	1.72	20	
238	U	165	1	40.02	ppb	1.46	39.50	1.31	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	522068	0.93	619221	84.3	30 - 120	
45	Sc	1	2936098	1.17	2917438	100.6	30 - 120	
72	Ge	1	1728107	1.74	1732493	99.7	30 - 120	
115	In	1	4790364	0.61	4820582	99.4	30 - 120	
165	Ho	1	9394464	0.76	9792536	95.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\043SMPL.D\043SMPL.D#
Date Acquired: Nov 1 2011 08:01 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-5-a
Misc Info:
Vial Number: 2308
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.15	0.15	ppb	18.06	3600	
51 V	72	1	17.29	17.29	ppb	0.83	3600	
52 Cr	72	1	8.08	8.08	ppb	1.66	3600	
55 Mn	72	1	88.03	88.03	ppb	0.47	18000	
59 Co	72	1	1.18	1.18	ppb	0.16	3600	
60 Ni	72	1	3.12	3.12	ppb	3.49	3600	
63 Cu	72	1	3.94	3.94	ppb	0.64	3600	
66 Zn	72	1	14.80	14.80	ppb	0.36	3600	
75 As	72	1	3.36	3.36	ppb	1.32	3600	
78 Se	72	1	1.22	1.22	ppb	35.79	3600	
95 Mo	72	1	0.43	0.43	ppb	2.53	3600	
107 Ag	115	1	0.05	0.05	ppb	9.77	3600	
111 Cd	115	1	0.09	0.09	ppb	8.79	3600	
118 Sn	115	1	0.09	0.09	ppb	19.52	3600	
121 Sb	115	1	0.04	0.04	ppb	10.39	3600	
137 Ba	115	1	9.85	9.85	ppb	1.93	3600	
205 Tl	165	1	0.11	0.11	ppb	1.08	3600	
208 Pb	165	1	8.05	8.05	ppb	0.41	3600	
232 Th	165	1	7.20	7.20	ppb	0.46	1000	
238 U	165	1	1.04	1.04	ppb	0.81	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	524825	0.68	619221	84.8	30 - 120	
45 Sc	1	2932678	1.74	2917438	100.5	30 - 120	
72 Ge	1	1740200	0.87	1732493	100.4	30 - 120	
115 In	1	4804503	0.82	4820582	99.7	30 - 120	
165 Ho	1	9349627	0.26	9792536	95.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\044_CCV.D\044_CCV.D#
Date Acquired: Nov 1 2011 08:04 pm
Operator: TEL
Sample Name: CCV-1103570
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	55.75	ppb	1.25	50	111.5	90 - 110	Fail
51	V	72	1	50.69	ppb	2.16	50	101.4	90 - 110	
52	Cr	72	1	49.77	ppb	2.33	50	99.5	90 - 110	
55	Mn	72	1	48.97	ppb	3.06	50	97.9	90 - 110	
59	Co	72	1	50.01	ppb	2.32	50	100.0	90 - 110	
60	Ni	72	1	48.12	ppb	2.04	50	96.2	90 - 110	
63	Cu	72	1	50.23	ppb	2.30	50	100.5	90 - 110	
66	Zn	72	1	50.97	ppb	1.69	50	101.9	90 - 110	
75	As	72	1	53.04	ppb	1.96	50	106.1	90 - 110	
78	Se	72	1	51.72	ppb	1.55	50	103.4	90 - 110	
95	Mo	72	1	49.20	ppb	1.81	50	98.4	90 - 110	
107	Ag	115	1	51.13	ppb	1.29	50	102.3	90 - 110	
111	Cd	115	1	50.42	ppb	0.73	50	100.8	90 - 110	
118	Sn	115	1	48.27	ppb	0.27	50	96.5	90 - 110	
121	Sb	115	1	51.56	ppb	0.53	50	103.1	90 - 110	
137	Ba	115	1	50.89	ppb	0.67	50	101.8	90 - 110	
205	Tl	165	1	49.25	ppb	2.28	50	98.5	90 - 110	
208	Pb	165	1	47.67	ppb	0.44	50	95.3	90 - 110	
232	Th	165	1	47.79	ppb	1.58	50	95.6	90 - 110	
238	U	165	1	46.12	ppb	1.32	50	92.2	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	504330	0.37	619221	81.4	30 - 120	
45	Sc	1	2865851	1.04	2917438	98.2	30 - 120	
72	Ge	1	1752369	1.41	1732493	101.1	30 - 120	
115	In	1	4772450	0.55	4820582	99.0	30 - 120	
165	Ho	1	9079880	0.71	9792536	92.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\045_CCB.D\045_CCB.D#
Date Acquired:	Nov 1 2011 08:07 pm
Operator:	TEL
Sample Name:	CCB-1103571
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.032	ppb	24.60	1.00	
51	V	72	1	-0.005	ppb	264.80	1.00	
52	Cr	72	1	-0.002	ppb	536.16	1.00	
55	Mn	72	1	0.020	ppb	68.22	1.00	
59	Co	72	1	0.010	ppb	14.60	1.00	
60	Ni	72	1	-0.072	ppb	8.29	1.00	
63	Cu	72	1	0.065	ppb	17.73	1.00	
66	Zn	72	1	0.072	ppb	13.66	1.00	
75	As	72	1	0.019	ppb	47.60	1.00	
78	Se	72	1	0.353	ppb	130.99	1.00	
95	Mo	72	1	0.011	ppb	48.03	1.00	
107	Ag	115	1	0.008	ppb	16.38	1.00	
111	Cd	115	1	0.013	ppb	15.31	1.00	
118	Sn	115	1	0.045	ppb	17.86	1.00	
121	Sb	115	1	0.015	ppb	3.38	1.00	
137	Ba	115	1	0.011	ppb	48.91	1.00	
205	Tl	165	1	0.024	ppb	7.37	1.00	
208	Pb	165	1	0.011	ppb	10.24	1.00	
232	Th	165	1	0.032	ppb	7.78	1.00	
238	U	165	1	0.011	ppb	9.87	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	506490	0.50	619221	81.8	30 - 120	
45	Sc	1	2848430	0.56	2917438	97.6	30 - 120	
72	Ge	1	1748651	0.76	1732493	100.9	30 - 120	
115	In	1	4752182	1.12	4820582	98.6	30 - 120	
165	Ho	1	9136962	2.78	9792536	93.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\046WASH.D\046WASH.D#
Date Acquired:	Nov 1 2011 08:10 pm
Operator:	TEL
Sample Name:	LLICV-1103572
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.323 ppb	5.77	1.30	
51	V	72	1	4.840 ppb	1.67	6.50	
52	Cr	72	1	2.072 ppb	2.65	2.60	
55	Mn	72	1	1.100 ppb	2.58	1.30	
59	Co	72	1	1.031 ppb	2.47	1.30	
60	Ni	72	1	2.023 ppb	1.12	2.60	
63	Cu	72	1	2.136 ppb	2.35	2.60	
66	Zn	72	1	10.490 ppb	0.79	13.00	
75	As	72	1	5.338 ppb	1.59	6.50	
78	Se	72	1	5.265 ppb	1.66	6.50	
95	Mo	72	1	2.016 ppb	0.77	2.60	
107	Ag	115	1	5.004 ppb	0.74	6.50	
111	Cd	115	1	1.069 ppb	4.78	1.30	
118	Sn	115	1	9.956 ppb	1.92	13.00	
121	Sb	115	1	2.188 ppb	1.53	2.60	
137	Ba	115	1	1.147 ppb	1.16	1.30	
205	Tl	165	1	1.053 ppb	1.60	1.30	
208	Pb	165	1	1.019 ppb	1.53	1.30	
232	Th	165	1	1.999 ppb	1.75	2.60	
238	U	165	1	1.000 ppb	1.75	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	511300	0.57	619221	82.6	30 - 120	
45	Sc	1	2814864	0.69	2917438	96.5	30 - 120	
72	Ge	1	1775798	1.03	1732493	102.5	30 - 120	
115	In	1	4734485	0.35	4820582	98.2	30 - 120	
165	Ho	1	9064984	0.60	9792536	92.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\047_BLK.D\047_BLK.D#
Date Acquired: Nov 1 2011 08:13 pm
Operator: TEL
Sample Name: mb 280-91954/1-a
Misc Info: BLANK 91954 Soil DoD4/6020A
Vial Number: 2301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.005 ppb	298.02	2.00	
51	V	72	1	-0.019 ppb	101.10	2.00	
52	Cr	72	1	0.088 ppb	10.97	2.00	
55	Mn	72	1	0.113 ppb	1.88	2.00	
59	Co	72	1	0.005 ppb	11.20	2.00	
60	Ni	72	1	-0.015 ppb	153.96	2.00	
63	Cu	72	1	0.338 ppb	4.77	2.00	
66	Zn	72	1	4.289 ppb	1.39	2.00	Fail
75	As	72	1	0.022 ppb	14.94	2.00	
78	Se	72	1	0.041 ppb	692.61	2.00	
95	Mo	72	1	0.014 ppb	58.34	2.00	
107	Ag	115	1	0.006 ppb	3.81	2.00	
111	Cd	115	1	0.010 ppb	60.54	2.00	
118	Sn	115	1	0.058 ppb	19.92	2.00	
121	Sb	115	1	0.056 ppb	62.52	2.00	
137	Ba	115	1	0.384 ppb	3.43	2.00	
205	Tl	165	1	0.010 ppb	3.22	2.00	
208	Pb	165	1	0.053 ppb	3.60	2.00	
232	Th	165	1	0.016 ppb	5.63	2.00	
238	U	165	1	0.007 ppb	6.02	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	514460	0.24	619221	83.1	30 - 120	
45	Sc	1	2883199	1.44	2917438	98.8	30 - 120	
72	Ge	1	1758872	0.89	1732493	101.5	30 - 120	
115	In	1	4789108	1.94	4820582	99.3	30 - 120	
165	Ho	1	9075708	0.96	9792536	92.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\048SMPL.D\048SMPL.D#
Date Acquired:	Nov 1 2011 08:16 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-6-b
Misc Info:	
Vial Number:	2309
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.37	0.37	ppb	26.82	3600	
51	V	72	1	21.44	21.44	ppb	0.79	3600	
52	Cr	72	1	11.19	11.19	ppb	1.39	3600	
55	Mn	72	1	99.70	99.70	ppb	1.38	18000	
59	Co	72	1	1.82	1.82	ppb	1.24	3600	
60	Ni	72	1	5.64	5.64	ppb	1.61	3600	
63	Cu	72	1	4.22	4.22	ppb	0.82	3600	
66	Zn	72	1	20.53	20.53	ppb	0.71	3600	
75	As	72	1	4.15	4.15	ppb	0.82	3600	
78	Se	72	1	1.72	1.72	ppb	16.43	3600	
95	Mo	72	1	0.53	0.53	ppb	1.58	3600	
107	Ag	115	1	0.04	0.04	ppb	12.69	3600	
111	Cd	115	1	0.08	0.08	ppb	15.98	3600	
118	Sn	115	1	0.09	0.09	ppb	6.85	3600	
121	Sb	115	1	0.04	0.04	ppb	9.86	3600	
137	Ba	115	1	13.10	13.10	ppb	1.68	3600	
205	Tl	165	1	0.11	0.11	ppb	2.70	3600	
208	Pb	165	1	8.64	8.64	ppb	2.26	3600	
232	Th	165	1	8.88	8.88	ppb	3.86	1000	
238	U	165	1	1.25	1.25	ppb	3.64	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	508288	0.68	619221	82.1	30 - 120	
45	Sc	1	2916006	0.88	2917438	100.0	30 - 120	
72	Ge	1	1760049	0.75	1732493	101.6	30 - 120	
115	In	1	4733303	1.40	4820582	98.2	30 - 120	
165	Ho	1	9142569	1.75	9792536	93.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\049SMPL.D\049SMPL.D#
Date Acquired:	Nov 1 2011 08:19 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-7-b
Misc Info:	
Vial Number:	2310
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.26	0.26	ppb	29.59	3600	
51	V	72	1	10.58	10.58	ppb	1.66	3600	
52	Cr	72	1	7.15	7.15	ppb	1.51	3600	
55	Mn	72	1	121.20	121.20	ppb	1.61	18000	
59	Co	72	1	2.72	2.72	ppb	1.70	3600	
60	Ni	72	1	4.79	4.79	ppb	1.76	3600	
63	Cu	72	1	4.08	4.08	ppb	1.36	3600	
66	Zn	72	1	17.77	17.77	ppb	1.47	3600	
75	As	72	1	4.00	4.00	ppb	1.57	3600	
78	Se	72	1	1.02	1.02	ppb	26.74	3600	
95	Mo	72	1	0.28	0.28	ppb	0.56	3600	
107	Ag	115	1	0.03	0.03	ppb	6.29	3600	
111	Cd	115	1	0.08	0.08	ppb	18.08	3600	
118	Sn	115	1	0.07	0.07	ppb	12.08	3600	
121	Sb	115	1	0.04	0.04	ppb	6.22	3600	
137	Ba	115	1	8.76	8.76	ppb	1.42	3600	
205	Tl	165	1	0.08	0.08	ppb	3.93	3600	
208	Pb	165	1	8.89	8.89	ppb	1.65	3600	
232	Th	165	1	5.11	5.11	ppb	1.05	1000	
238	U	165	1	1.00	1.00	ppb	1.28	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	506577	0.31	619221	81.8	30 - 120	
45	Sc	1	2867090	0.81	2917438	98.3	30 - 120	
72	Ge	1	1762620	0.53	1732493	101.7	30 - 120	
115	In	1	4802163	1.12	4820582	99.6	30 - 120	
165	Ho	1	9137679	0.63	9792536	93.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\050SMPL.D\050SMPL.D#
Date Acquired: Nov 1 2011 08:22 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-8-b
Misc Info:
Vial Number: 2311
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.22	0.22	ppb	23.84	3600	
51	V	72	1	11.41	11.41	ppb	1.48	3600	
52	Cr	72	1	7.77	7.77	ppb	1.06	3600	
55	Mn	72	1	184.30	184.30	ppb	0.46	18000	
59	Co	72	1	3.15	3.15	ppb	1.53	3600	
60	Ni	72	1	5.31	5.31	ppb	0.81	3600	
63	Cu	72	1	3.83	3.83	ppb	0.71	3600	
66	Zn	72	1	15.67	15.67	ppb	0.83	3600	
75	As	72	1	3.07	3.07	ppb	1.44	3600	
78	Se	72	1	0.71	0.71	ppb	36.91	3600	
95	Mo	72	1	0.24	0.24	ppb	1.28	3600	
107	Ag	115	1	0.02	0.02	ppb	8.92	3600	
111	Cd	115	1	0.05	0.05	ppb	24.08	3600	
118	Sn	115	1	0.07	0.07	ppb	21.85	3600	
121	Sb	115	1	0.03	0.03	ppb	8.84	3600	
137	Ba	115	1	6.53	6.53	ppb	1.38	3600	
205	Tl	165	1	0.10	0.10	ppb	2.61	3600	
208	Pb	165	1	6.84	6.84	ppb	1.55	3600	
232	Th	165	1	3.47	3.47	ppb	2.47	1000	
238	U	165	1	0.76	0.76	ppb	2.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	505464	0.52	619221	81.6	30 - 120	
45	Sc	1	2872287	1.80	2917438	98.5	30 - 120	
72	Ge	1	1768988	0.54	1732493	102.1	30 - 120	
115	In	1	4778274	1.57	4820582	99.1	30 - 120	
165	Ho	1	9097414	1.01	9792536	92.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\051SMPL.D\051SMPL.D#
Date Acquired:	Nov 1 2011 08:24 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-9-b
Misc Info:	
Vial Number:	2312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.24	0.24	ppb	6.07	3600	
51	V	72	1	11.32	11.32	ppb	2.50	3600	
52	Cr	72	1	6.38	6.38	ppb	2.36	3600	
55	Mn	72	1	122.20	122.20	ppb	1.45	18000	
59	Co	72	1	2.62	2.62	ppb	1.39	3600	
60	Ni	72	1	4.18	4.18	ppb	1.63	3600	
63	Cu	72	1	3.90	3.90	ppb	1.25	3600	
66	Zn	72	1	16.86	16.86	ppb	1.02	3600	
75	As	72	1	3.38	3.38	ppb	1.11	3600	
78	Se	72	1	0.73	0.73	ppb	12.34	3600	
95	Mo	72	1	0.28	0.28	ppb	11.31	3600	
107	Ag	115	1	0.04	0.04	ppb	13.03	3600	
111	Cd	115	1	0.05	0.05	ppb	3.65	3600	
118	Sn	115	1	0.08	0.08	ppb	15.31	3600	
121	Sb	115	1	0.04	0.04	ppb	4.46	3600	
137	Ba	115	1	7.75	7.75	ppb	1.89	3600	
205	Tl	165	1	0.07	0.07	ppb	0.83	3600	
208	Pb	165	1	9.05	9.05	ppb	0.58	3600	
232	Th	165	1	5.39	5.39	ppb	2.19	1000	
238	U	165	1	0.88	0.88	ppb	1.13	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	510192	0.73	619221	82.4	30 - 120	
45	Sc	1	2900709	0.55	2917438	99.4	30 - 120	
72	Ge	1	1770405	2.09	1732493	102.2	30 - 120	
115	In	1	4731461	0.78	4820582	98.2	30 - 120	
165	Ho	1	9069280	0.61	9792536	92.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\052SMPL.D\052SMPL.D#
Date Acquired:	Nov 1 2011 08:27 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-10-a
Misc Info:	
Vial Number:	2401
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.22	0.22	ppb	2.31	3600	
51	V	72	1	16.97	16.97	ppb	0.95	3600	
52	Cr	72	1	10.53	10.53	ppb	0.88	3600	
55	Mn	72	1	63.06	63.06	ppb	1.89	18000	
59	Co	72	1	1.27	1.27	ppb	2.25	3600	
60	Ni	72	1	4.80	4.80	ppb	1.77	3600	
63	Cu	72	1	2.16	2.16	ppb	2.05	3600	
66	Zn	72	1	16.51	16.51	ppb	0.30	3600	
75	As	72	1	2.96	2.96	ppb	0.37	3600	
78	Se	72	1	1.75	1.75	ppb	9.66	3600	
95	Mo	72	1	0.34	0.34	ppb	8.85	3600	
107	Ag	115	1	0.03	0.03	ppb	12.51	3600	
111	Cd	115	1	0.06	0.06	ppb	12.68	3600	
118	Sn	115	1	0.09	0.09	ppb	8.36	3600	
121	Sb	115	1	0.04	0.04	ppb	13.69	3600	
137	Ba	115	1	11.29	11.29	ppb	1.18	3600	
205	Tl	165	1	0.08	0.08	ppb	3.10	3600	
208	Pb	165	1	6.66	6.66	ppb	0.84	3600	
232	Th	165	1	11.52	11.52	ppb	2.00	1000	
238	U	165	1	1.57	1.57	ppb	1.42	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	502942	1.21	619221	81.2	30 - 120	
45	Sc	1	2845384	0.67	2917438	97.5	30 - 120	
72	Ge	1	1739785	0.19	1732493	100.4	30 - 120	
115	In	1	4692344	0.95	4820582	97.3	30 - 120	
165	Ho	1	9076525	0.52	9792536	92.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\053SMPL.D\053SMPL.D#
Date Acquired: Nov 1 2011 08:30 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-11-b
Misc Info:
Vial Number: 2402
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.20	0.20	ppb	36.30	3600	
51	V	72	1	20.59	20.59	ppb	1.99	3600	
52	Cr	72	1	8.81	8.81	ppb	2.79	3600	
55	Mn	72	1	79.47	79.47	ppb	2.27	18000	
59	Co	72	1	0.80	0.80	ppb	2.51	3600	
60	Ni	72	1	2.60	2.60	ppb	1.63	3600	
63	Cu	72	1	2.84	2.84	ppb	2.17	3600	
66	Zn	72	1	13.91	13.91	ppb	1.02	3600	
75	As	72	1	3.47	3.47	ppb	1.25	3600	
78	Se	72	1	1.59	1.59	ppb	10.27	3600	
95	Mo	72	1	0.46	0.46	ppb	2.38	3600	
107	Ag	115	1	0.04	0.04	ppb	5.04	3600	
111	Cd	115	1	0.09	0.09	ppb	3.90	3600	
118	Sn	115	1	0.08	0.08	ppb	20.60	3600	
121	Sb	115	1	0.05	0.05	ppb	8.10	3600	
137	Ba	115	1	10.36	10.36	ppb	0.49	3600	
205	Tl	165	1	0.09	0.09	ppb	1.90	3600	
208	Pb	165	1	11.02	11.02	ppb	0.92	3600	
232	Th	165	1	10.90	10.90	ppb	1.00	1000	
238	U	165	1	1.52	1.52	ppb	0.41	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	502263	0.68	619221	81.1	30 - 120	
45	Sc	1	2857571	0.96	2917438	97.9	30 - 120	
72	Ge	1	1765203	1.21	1732493	101.9	30 - 120	
115	In	1	4710850	1.48	4820582	97.7	30 - 120	
165	Ho	1	9064384	0.16	9792536	92.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\054SMPL.D\054SMPL.D#
Date Acquired: Nov 1 2011 08:33 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-12-b
Misc Info:
Vial Number: 2403
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.37	0.37	ppb	39.12	3600	
51	V	72	1	17.33	17.33	ppb	0.89	3600	
52	Cr	72	1	8.83	8.83	ppb	2.56	3600	
55	Mn	72	1	232.10	232.10	ppb	0.96	18000	
59	Co	72	1	4.15	4.15	ppb	1.11	3600	
60	Ni	72	1	5.74	5.74	ppb	1.67	3600	
63	Cu	72	1	6.61	6.61	ppb	1.77	3600	
66	Zn	72	1	25.39	25.39	ppb	0.49	3600	
75	As	72	1	5.24	5.24	ppb	0.66	3600	
78	Se	72	1	1.25	1.25	ppb	20.67	3600	
95	Mo	72	1	0.43	0.43	ppb	8.14	3600	
107	Ag	115	1	0.04	0.04	ppb	10.20	3600	
111	Cd	115	1	0.12	0.12	ppb	15.55	3600	
118	Sn	115	1	0.14	0.14	ppb	14.67	3600	
121	Sb	115	1	0.06	0.06	ppb	6.69	3600	
137	Ba	115	1	15.34	15.34	ppb	1.20	3600	
205	Tl	165	1	0.15	0.15	ppb	3.07	3600	
208	Pb	165	1	10.91	10.91	ppb	1.96	3600	
232	Th	165	1	8.79	8.79	ppb	1.92	1000	
238	U	165	1	1.46	1.46	ppb	1.59	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	499817	0.34	619221	80.7	30 - 120	
45	Sc	1	2852202	0.92	2917438	97.8	30 - 120	
72	Ge	1	1769457	0.55	1732493	102.1	30 - 120	
115	In	1	4658052	0.78	4820582	96.6	30 - 120	
165	Ho	1	9087354	1.01	9792536	92.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\055SMPL.D\055SMPL.D#
Date Acquired:	Nov 1 2011 08:36 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-13-b
Misc Info:	
Vial Number:	2404
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	4.30	3600	
51	V	72	1	12.55	12.55	ppb	0.22	3600	
52	Cr	72	1	7.19	7.19	ppb	1.04	3600	
55	Mn	72	1	112.50	112.50	ppb	0.84	18000	
59	Co	72	1	2.09	2.09	ppb	0.45	3600	
60	Ni	72	1	4.37	4.37	ppb	1.73	3600	
63	Cu	72	1	3.52	3.52	ppb	1.32	3600	
66	Zn	72	1	17.98	17.98	ppb	0.87	3600	
75	As	72	1	4.18	4.18	ppb	2.00	3600	
78	Se	72	1	1.06	1.06	ppb	2.16	3600	
95	Mo	72	1	0.43	0.43	ppb	5.87	3600	
107	Ag	115	1	0.02	0.02	ppb	30.70	3600	
111	Cd	115	1	0.08	0.08	ppb	10.96	3600	
118	Sn	115	1	0.08	0.08	ppb	6.78	3600	
121	Sb	115	1	0.04	0.04	ppb	3.41	3600	
137	Ba	115	1	8.89	8.89	ppb	0.76	3600	
205	Tl	165	1	0.09	0.09	ppb	3.87	3600	
208	Pb	165	1	6.86	6.86	ppb	1.81	3600	
232	Th	165	1	5.64	5.64	ppb	1.81	1000	
238	U	165	1	0.92	0.92	ppb	0.90	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497371	0.28	619221	80.3	30 - 120	
45	Sc	1	2858565	0.79	2917438	98.0	30 - 120	
72	Ge	1	1743798	0.97	1732493	100.7	30 - 120	
115	In	1	4735372	0.70	4820582	98.2	30 - 120	
165	Ho	1	9062405	0.74	9792536	92.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\056_CCV.D\056_CCV.D#
Date Acquired: Nov 1 2011 08:39 pm
Operator: TEL
Sample Name: CCV-1103570
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	57.41	ppb	1.02	50	114.8	90 - 110	Fail
51	V	72	1	50.27	ppb	2.29	50	100.5	90 - 110	
52	Cr	72	1	48.97	ppb	2.45	50	97.9	90 - 110	
55	Mn	72	1	48.62	ppb	1.99	50	97.2	90 - 110	
59	Co	72	1	49.05	ppb	0.51	50	98.1	90 - 110	
60	Ni	72	1	47.55	ppb	0.67	50	95.1	90 - 110	
63	Cu	72	1	49.16	ppb	1.81	50	98.3	90 - 110	
66	Zn	72	1	50.66	ppb	1.04	50	101.3	90 - 110	
75	As	72	1	52.94	ppb	1.21	50	105.9	90 - 110	
78	Se	72	1	51.02	ppb	2.06	50	102.0	90 - 110	
95	Mo	72	1	49.10	ppb	0.42	50	98.2	90 - 110	
107	Ag	115	1	50.69	ppb	0.74	50	101.4	90 - 110	
111	Cd	115	1	50.54	ppb	0.54	50	101.1	90 - 110	
118	Sn	115	1	48.53	ppb	0.12	50	97.1	90 - 110	
121	Sb	115	1	51.90	ppb	0.30	50	103.8	90 - 110	
137	Ba	115	1	51.34	ppb	0.66	50	102.7	90 - 110	
205	Tl	165	1	49.70	ppb	1.68	50	99.4	90 - 110	
208	Pb	165	1	47.43	ppb	0.96	50	94.9	90 - 110	
232	Th	165	1	47.92	ppb	0.92	50	95.8	90 - 110	
238	U	165	1	46.46	ppb	1.00	50	92.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493343	0.85	619221	79.7	30 - 120	
45	Sc	1	2840508	0.83	2917438	97.4	30 - 120	
72	Ge	1	1739301	0.69	1732493	100.4	30 - 120	
115	In	1	4709164	1.08	4820582	97.7	30 - 120	
165	Ho	1	9047515	0.77	9792536	92.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\057_CCB.D\057_CCB.D#
Date Acquired:	Nov 1 2011 08:42 pm
Operator:	TEL
Sample Name:	CCB-1103571
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.005	ppb	145.14	1.00	
51	V	72	1	-0.001	ppb	796.75	1.00	
52	Cr	72	1	-0.013	ppb	45.08	1.00	
55	Mn	72	1	0.033	ppb	8.35	1.00	
59	Co	72	1	0.008	ppb	27.33	1.00	
60	Ni	72	1	-0.070	ppb	6.25	1.00	
63	Cu	72	1	0.043	ppb	4.89	1.00	
66	Zn	72	1	0.075	ppb	11.29	1.00	
75	As	72	1	0.016	ppb	12.42	1.00	
78	Se	72	1	0.023	ppb	833.63	1.00	
95	Mo	72	1	0.006	ppb	147.95	1.00	
107	Ag	115	1	0.009	ppb	7.48	1.00	
111	Cd	115	1	0.012	ppb	32.53	1.00	
118	Sn	115	1	0.041	ppb	19.54	1.00	
121	Sb	115	1	0.014	ppb	16.42	1.00	
137	Ba	115	1	0.014	ppb	18.42	1.00	
205	Tl	165	1	0.022	ppb	4.11	1.00	
208	Pb	165	1	0.011	ppb	6.50	1.00	
232	Th	165	1	0.034	ppb	5.12	1.00	
238	U	165	1	0.009	ppb	8.47	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	498332	1.11	619221	80.5	30 - 120	
45	Sc	1	2814905	1.44	2917438	96.5	30 - 120	
72	Ge	1	1746147	1.46	1732493	100.8	30 - 120	
115	In	1	4739155	1.45	4820582	98.3	30 - 120	
165	Ho	1	8988132	0.80	9792536	91.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\058WASH.D\058WASH.D#
Date Acquired: Nov 1 2011 08:45 pm
Operator: TEL
Sample Name: LLICV-1103572
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.150 ppb	9.57	1.30	
51	V	72	1	4.864 ppb	2.90	6.50	
52	Cr	72	1	2.091 ppb	4.95	2.60	
55	Mn	72	1	1.102 ppb	1.47	1.30	
59	Co	72	1	1.042 ppb	3.10	1.30	
60	Ni	72	1	2.031 ppb	0.76	2.60	
63	Cu	72	1	2.101 ppb	0.64	2.60	
66	Zn	72	1	10.420 ppb	1.58	13.00	
75	As	72	1	5.371 ppb	2.82	6.50	
78	Se	72	1	4.956 ppb	10.68	6.50	
95	Mo	72	1	2.077 ppb	3.38	2.60	
107	Ag	115	1	4.959 ppb	0.57	6.50	
111	Cd	115	1	1.085 ppb	0.93	1.30	
118	Sn	115	1	9.971 ppb	0.90	13.00	
121	Sb	115	1	2.155 ppb	0.60	2.60	
137	Ba	115	1	1.120 ppb	2.02	1.30	
205	Tl	165	1	1.052 ppb	1.27	1.30	
208	Pb	165	1	1.033 ppb	1.62	1.30	
232	Th	165	1	1.979 ppb	1.22	2.60	
238	U	165	1	0.979 ppb	1.15	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492417	0.93	619221	79.5	30 - 120	
45	Sc	1	2825749	2.02	2917438	96.9	30 - 120	
72	Ge	1	1754027	1.57	1732493	101.2	30 - 120	
115	In	1	4714219	1.27	4820582	97.8	30 - 120	
165	Ho	1	8984374	2.06	9792536	91.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\059SMPL.D\059SMPL.D#
Date Acquired:	Nov 1 2011 08:48 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-14-a
Misc Info:	
Vial Number:	2405
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.28	0.28	ppb	19.60	3600	
51	V	72	1	20.18	20.18	ppb	0.88	3600	
52	Cr	72	1	9.20	9.20	ppb	1.53	3600	
55	Mn	72	1	112.10	112.10	ppb	1.25	18000	
59	Co	72	1	1.46	1.46	ppb	2.02	3600	
60	Ni	72	1	3.72	3.72	ppb	1.51	3600	
63	Cu	72	1	3.97	3.97	ppb	1.02	3600	
66	Zn	72	1	18.19	18.19	ppb	0.56	3600	
75	As	72	1	4.20	4.20	ppb	0.56	3600	
78	Se	72	1	1.52	1.52	ppb	9.64	3600	
95	Mo	72	1	0.56	0.56	ppb	3.13	3600	
107	Ag	115	1	0.04	0.04	ppb	8.91	3600	
111	Cd	115	1	0.12	0.12	ppb	22.61	3600	
118	Sn	115	1	0.09	0.09	ppb	13.44	3600	
121	Sb	115	1	0.04	0.04	ppb	7.44	3600	
137	Ba	115	1	12.51	12.51	ppb	0.16	3600	
205	Tl	165	1	0.12	0.12	ppb	1.53	3600	
208	Pb	165	1	8.57	8.57	ppb	0.96	3600	
232	Th	165	1	8.63	8.63	ppb	1.39	1000	
238	U	165	1	1.21	1.21	ppb	1.55	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497863	1.69	619221	80.4	30 - 120	
45	Sc	1	2848079	0.39	2917438	97.6	30 - 120	
72	Ge	1	1741134	0.98	1732493	100.5	30 - 120	
115	In	1	4685874	0.41	4820582	97.2	30 - 120	
165	Ho	1	8957116	0.37	9792536	91.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\060SMPL.D\060SMPL.D#
Date Acquired:	Nov 1 2011 08:51 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-15-a
Misc Info:	
Vial Number:	2406
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.26	0.26	ppb	12.99	3600	
51	V	72	1	12.98	12.98	ppb	0.89	3600	
52	Cr	72	1	6.87	6.87	ppb	0.74	3600	
55	Mn	72	1	133.50	133.50	ppb	1.54	18000	
59	Co	72	1	3.08	3.08	ppb	1.25	3600	
60	Ni	72	1	4.88	4.88	ppb	0.67	3600	
63	Cu	72	1	4.50	4.50	ppb	1.27	3600	
66	Zn	72	1	20.45	20.45	ppb	1.29	3600	
75	As	72	1	3.60	3.60	ppb	0.97	3600	
78	Se	72	1	0.76	0.76	ppb	28.57	3600	
95	Mo	72	1	0.24	0.24	ppb	1.34	3600	
107	Ag	115	1	0.02	0.02	ppb	12.47	3600	
111	Cd	115	1	0.08	0.08	ppb	14.15	3600	
118	Sn	115	1	0.15	0.15	ppb	6.21	3600	
121	Sb	115	1	0.05	0.05	ppb	11.42	3600	
137	Ba	115	1	9.81	9.81	ppb	1.53	3600	
205	Tl	165	1	0.09	0.09	ppb	2.14	3600	
208	Pb	165	1	9.15	9.15	ppb	1.37	3600	
232	Th	165	1	5.18	5.18	ppb	2.73	1000	
238	U	165	1	0.86	0.86	ppb	2.50	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493285	0.48	619221	79.7	30 - 120	
45	Sc	1	2826902	1.63	2917438	96.9	30 - 120	
72	Ge	1	1748597	0.96	1732493	100.9	30 - 120	
115	In	1	4724112	1.58	4820582	98.0	30 - 120	
165	Ho	1	8975944	1.40	9792536	91.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\061SMPL.D\061SMPL.D#
Date Acquired:	Nov 1 2011 08:54 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-16-b
Misc Info:	
Vial Number:	2407
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.37	0.37	ppb	32.60	3600	
51	V	72	1	13.08	13.08	ppb	2.11	3600	
52	Cr	72	1	5.93	5.93	ppb	2.40	3600	
55	Mn	72	1	156.10	156.10	ppb	1.56	18000	
59	Co	72	1	2.73	2.73	ppb	2.12	3600	
60	Ni	72	1	3.67	3.67	ppb	2.90	3600	
63	Cu	72	1	4.75	4.75	ppb	3.42	3600	
66	Zn	72	1	21.98	21.98	ppb	1.55	3600	
75	As	72	1	3.71	3.71	ppb	1.47	3600	
78	Se	72	1	0.81	0.81	ppb	16.68	3600	
95	Mo	72	1	0.28	0.28	ppb	6.85	3600	
107	Ag	115	1	0.01	0.01	ppb	12.25	3600	
111	Cd	115	1	0.09	0.09	ppb	10.07	3600	
118	Sn	115	1	0.08	0.08	ppb	9.68	3600	
121	Sb	115	1	0.04	0.04	ppb	6.42	3600	
137	Ba	115	1	7.43	7.43	ppb	0.53	3600	
205	Tl	165	1	0.08	0.08	ppb	2.60	3600	
208	Pb	165	1	5.56	5.56	ppb	0.63	3600	
232	Th	165	1	4.75	4.75	ppb	0.31	1000	
238	U	165	1	0.95	0.95	ppb	1.19	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	495629	0.31	619221	80.0	30 - 120	
45	Sc	1	2825495	0.43	2917438	96.8	30 - 120	
72	Ge	1	1723392	0.83	1732493	99.5	30 - 120	
115	In	1	4707405	0.93	4820582	97.7	30 - 120	
165	Ho	1	8971700	1.08	9792536	91.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\062SMPL.D\062SMPL.D#
Date Acquired: Nov 1 2011 08:56 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-17-a
Misc Info:
Vial Number: 2408
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.47	0.47	ppb	27.17	3600	
51	V	72	1	18.77	18.77	ppb	2.07	3600	
52	Cr	72	1	9.20	9.20	ppb	1.40	3600	
55	Mn	72	1	242.30	242.30	ppb	2.57	18000	
59	Co	72	1	4.49	4.49	ppb	1.27	3600	
60	Ni	72	1	6.49	6.49	ppb	2.16	3600	
63	Cu	72	1	6.92	6.92	ppb	1.63	3600	
66	Zn	72	1	26.06	26.06	ppb	0.89	3600	
75	As	72	1	16.92	16.92	ppb	1.39	3600	
78	Se	72	1	1.64	1.64	ppb	18.71	3600	
95	Mo	72	1	0.94	0.94	ppb	0.40	3600	
107	Ag	115	1	0.03	0.03	ppb	14.16	3600	
111	Cd	115	1	0.11	0.11	ppb	2.35	3600	
118	Sn	115	1	0.13	0.13	ppb	10.79	3600	
121	Sb	115	1	0.06	0.06	ppb	5.70	3600	
137	Ba	115	1	12.58	12.58	ppb	0.95	3600	
205	Tl	165	1	0.15	0.15	ppb	2.37	3600	
208	Pb	165	1	12.44	12.44	ppb	0.73	3600	
232	Th	165	1	7.31	7.31	ppb	0.45	1000	
238	U	165	1	1.46	1.46	ppb	0.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492206	0.53	619221	79.5	30 - 120	
45	Sc	1	2806550	0.40	2917438	96.2	30 - 120	
72	Ge	1	1741293	0.55	1732493	100.5	30 - 120	
115	In	1	4672407	0.89	4820582	96.9	30 - 120	
165	Ho	1	8893664	0.83	9792536	90.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\063SMPL.D\063SMPL.D#
Date Acquired: Nov 1 2011 08:59 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-18-b
Misc Info:
Vial Number: 2409
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.31	0.31	ppb	33.63	3600	
51 V	72	1	11.08	11.08	ppb	0.19	3600	
52 Cr	72	1	7.97	7.97	ppb	0.15	3600	
55 Mn	72	1	189.60	189.60	ppb	1.16	18000	
59 Co	72	1	2.96	2.96	ppb	1.07	3600	
60 Ni	72	1	4.34	4.34	ppb	0.71	3600	
63 Cu	72	1	4.60	4.60	ppb	1.53	3600	
66 Zn	72	1	24.13	24.13	ppb	0.76	3600	
75 As	72	1	3.95	3.95	ppb	2.16	3600	
78 Se	72	1	0.91	0.91	ppb	2.84	3600	
95 Mo	72	1	0.31	0.31	ppb	3.23	3600	
107 Ag	115	1	0.02	0.02	ppb	13.47	3600	
111 Cd	115	1	0.07	0.07	ppb	16.81	3600	
118 Sn	115	1	0.08	0.08	ppb	7.76	3600	
121 Sb	115	1	0.04	0.04	ppb	7.70	3600	
137 Ba	115	1	9.38	9.38	ppb	1.01	3600	
205 Tl	165	1	0.08	0.08	ppb	5.30	3600	
208 Pb	165	1	7.89	7.89	ppb	0.31	3600	
232 Th	165	1	6.56	6.56	ppb	1.07	1000	
238 U	165	1	1.07	1.07	ppb	0.57	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	489239	2.29	619221	79.0	30 - 120	
45 Sc	1	2797245	1.08	2917438	95.9	30 - 120	
72 Ge	1	1730611	1.28	1732493	99.9	30 - 120	
115 In	1	4679747	0.76	4820582	97.1	30 - 120	
165 Ho	1	8961839	0.70	9792536	91.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\064SMPL.D\064SMPL.D#
Date Acquired:	Nov 1 2011 09:02 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-19-b
Misc Info:	
Vial Number:	2410
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.34	0.34	ppb	22.93	3600	
51	V	72	1	18.60	18.60	ppb	1.72	3600	
52	Cr	72	1	10.96	10.96	ppb	1.07	3600	
55	Mn	72	1	208.50	208.50	ppb	1.82	18000	
59	Co	72	1	3.51	3.51	ppb	2.13	3600	
60	Ni	72	1	6.30	6.30	ppb	0.40	3600	
63	Cu	72	1	7.16	7.16	ppb	1.67	3600	
66	Zn	72	1	28.26	28.26	ppb	1.47	3600	
75	As	72	1	5.10	5.10	ppb	1.35	3600	
78	Se	72	1	1.31	1.31	ppb	35.12	3600	
95	Mo	72	1	0.44	0.44	ppb	4.03	3600	
107	Ag	115	1	0.04	0.04	ppb	8.37	3600	
111	Cd	115	1	0.12	0.12	ppb	11.43	3600	
118	Sn	115	1	0.15	0.15	ppb	3.81	3600	
121	Sb	115	1	0.05	0.05	ppb	3.61	3600	
137	Ba	115	1	20.59	20.59	ppb	0.97	3600	
205	Tl	165	1	0.13	0.13	ppb	0.93	3600	
208	Pb	165	1	11.93	11.93	ppb	0.25	3600	
232	Th	165	1	8.77	8.77	ppb	0.87	1000	
238	U	165	1	1.51	1.51	ppb	1.03	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492856	0.53	619221	79.6	30 - 120	
45	Sc	1	2782734	1.93	2917438	95.4	30 - 120	
72	Ge	1	1718615	0.29	1732493	99.2	30 - 120	
115	In	1	4619621	0.27	4820582	95.8	30 - 120	
165	Ho	1	8949145	0.85	9792536	91.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\065SMPL.D\065SMPL.D#
Date Acquired:	Nov 1 2011 09:05 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-20-b
Misc Info:	
Vial Number:	2411
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.29	0.29	ppb	16.83	3600	
51	V	72	1	19.81	19.81	ppb	0.75	3600	
52	Cr	72	1	11.66	11.66	ppb	0.96	3600	
55	Mn	72	1	97.03	97.03	ppb	0.64	18000	
59	Co	72	1	1.94	1.94	ppb	1.29	3600	
60	Ni	72	1	5.76	5.76	ppb	1.98	3600	
63	Cu	72	1	2.60	2.60	ppb	1.21	3600	
66	Zn	72	1	20.75	20.75	ppb	1.12	3600	
75	As	72	1	3.64	3.64	ppb	0.51	3600	
78	Se	72	1	2.40	2.40	ppb	23.65	3600	
95	Mo	72	1	0.37	0.37	ppb	2.36	3600	
107	Ag	115	1	0.02	0.02	ppb	17.19	3600	
111	Cd	115	1	0.07	0.07	ppb	13.84	3600	
118	Sn	115	1	0.12	0.12	ppb	12.96	3600	
121	Sb	115	1	0.04	0.04	ppb	8.24	3600	
137	Ba	115	1	11.60	11.60	ppb	0.34	3600	
205	Tl	165	1	0.09	0.09	ppb	2.55	3600	
208	Pb	165	1	7.10	7.10	ppb	1.00	3600	
232	Th	165	1	12.04	12.04	ppb	1.89	1000	
238	U	165	1	1.69	1.69	ppb	1.96	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	485040	0.73	619221	78.3	30 - 120	
45	Sc	1	2784660	0.94	2917438	95.4	30 - 120	
72	Ge	1	1708199	1.46	1732493	98.6	30 - 120	
115	In	1	4627774	0.47	4820582	96.0	30 - 120	
165	Ho	1	8862923	0.88	9792536	90.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\066_CCV.D\066_CCV.D#
Date Acquired:	Nov 1 2011 09:08 pm
Operator:	TEL
Sample Name:	CCV-1103570
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	57.06	ppb	1.38	50	114.1	90 - 110	Fail
51	V	72	1	49.86	ppb	0.73	50	99.7	90 - 110	
52	Cr	72	1	49.07	ppb	0.72	50	98.1	90 - 110	
55	Mn	72	1	49.11	ppb	0.58	50	98.2	90 - 110	
59	Co	72	1	50.01	ppb	1.23	50	100.0	90 - 110	
60	Ni	72	1	48.58	ppb	1.98	50	97.2	90 - 110	
63	Cu	72	1	50.24	ppb	1.84	50	100.5	90 - 110	
66	Zn	72	1	51.54	ppb	1.05	50	103.1	90 - 110	
75	As	72	1	53.51	ppb	0.71	50	107.0	90 - 110	
78	Se	72	1	51.25	ppb	0.76	50	102.5	90 - 110	
95	Mo	72	1	49.66	ppb	2.30	50	99.3	90 - 110	
107	Ag	115	1	51.32	ppb	1.66	50	102.6	90 - 110	
111	Cd	115	1	51.11	ppb	2.28	50	102.2	90 - 110	
118	Sn	115	1	49.12	ppb	1.27	50	98.2	90 - 110	
121	Sb	115	1	52.46	ppb	1.95	50	104.9	90 - 110	
137	Ba	115	1	51.67	ppb	2.61	50	103.3	90 - 110	
205	Tl	165	1	49.29	ppb	1.89	50	98.6	90 - 110	
208	Pb	165	1	48.06	ppb	1.65	50	96.1	90 - 110	
232	Th	165	1	48.35	ppb	3.22	50	96.7	90 - 110	
238	U	165	1	47.18	ppb	3.77	50	94.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	480935	0.78	619221	77.7	30 - 120	
45	Sc	1	2766772	0.64	2917438	94.8	30 - 120	
72	Ge	1	1696302	1.27	1732493	97.9	30 - 120	
115	In	1	4616792	2.16	4820582	95.8	30 - 120	
165	Ho	1	8851850	1.74	9792536	90.4	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

1 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\067_CCB.D\067_CCB.D#
Date Acquired: Nov 1 2011 09:11 pm
Operator: TEL
Sample Name: CCB-1103571
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.010	ppb	0.95	1.00	
51	V	72	1	-0.006	ppb	64.57	1.00	
52	Cr	72	1	-0.014	ppb	53.97	1.00	
55	Mn	72	1	0.041	ppb	7.74	1.00	
59	Co	72	1	0.006	ppb	20.06	1.00	
60	Ni	72	1	-0.067	ppb	10.54	1.00	
63	Cu	72	1	0.033	ppb	3.39	1.00	
66	Zn	72	1	0.087	ppb	23.68	1.00	
75	As	72	1	0.016	ppb	90.01	1.00	
78	Se	72	1	0.133	ppb	152.92	1.00	
95	Mo	72	1	0.009	ppb	56.77	1.00	
107	Ag	115	1	0.009	ppb	11.63	1.00	
111	Cd	115	1	0.010	ppb	75.87	1.00	
118	Sn	115	1	0.034	ppb	36.09	1.00	
121	Sb	115	1	0.014	ppb	9.87	1.00	
137	Ba	115	1	0.010	ppb	31.05	1.00	
205	Tl	165	1	0.020	ppb	4.50	1.00	
208	Pb	165	1	0.011	ppb	6.82	1.00	
232	Th	165	1	0.033	ppb	3.69	1.00	
238	U	165	1	0.010	ppb	4.72	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	484066	0.70	619221	78.2	30 - 120	
45	Sc	1	2784688	1.42	2917438	95.4	30 - 120	
72	Ge	1	1715197	0.20	1732493	99.0	30 - 120	
115	In	1	4669066	0.78	4820582	96.9	30 - 120	
165	Ho	1	8870849	0.91	9792536	90.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\068WASH.D\068WASH.D#
Date Acquired: Nov 1 2011 09:14 pm
Operator: TEL
Sample Name: LLICV-1103572
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.327	ppb	3.43	1.30	
51	V	72	1	4.821	ppb	1.07	6.50	
52	Cr	72	1	2.075	ppb	1.13	2.60	
55	Mn	72	1	1.118	ppb	2.23	1.30	
59	Co	72	1	1.021	ppb	2.13	1.30	
60	Ni	72	1	2.034	ppb	2.48	2.60	
63	Cu	72	1	2.098	ppb	1.68	2.60	
66	Zn	72	1	10.500	ppb	1.51	13.00	
75	As	72	1	5.391	ppb	1.81	6.50	
78	Se	72	1	5.346	ppb	4.78	6.50	
95	Mo	72	1	2.060	ppb	3.15	2.60	
107	Ag	115	1	4.968	ppb	0.47	6.50	
111	Cd	115	1	1.102	ppb	0.64	1.30	
118	Sn	115	1	10.030	ppb	1.15	13.00	
121	Sb	115	1	2.142	ppb	1.41	2.60	
137	Ba	115	1	1.100	ppb	2.47	1.30	
205	Tl	165	1	1.051	ppb	0.86	1.30	
208	Pb	165	1	1.036	ppb	2.17	1.30	
232	Th	165	1	1.976	ppb	2.18	2.60	
238	U	165	1	0.988	ppb	1.84	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	483865	0.58	619221	78.1	30 - 120	
45	Sc	1	2783810	0.81	2917438	95.4	30 - 120	
72	Ge	1	1730456	1.69	1732493	99.9	30 - 120	
115	In	1	4667865	0.13	4820582	96.8	30 - 120	
165	Ho	1	8855260	1.12	9792536	90.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\069_BLK.D\069_BLK.D#
Date Acquired:	Nov 1 2011 09:17 pm
Operator:	TEL
Sample Name:	mb 280-91956/1-a
Misc Info:	BLANK 91956 Soil DoD4/6020A
Vial Number:	2412
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.004 ppb	0.00	2.00	
51 V	72	1	-0.012 ppb	54.41	2.00	
52 Cr	72	1	0.072 ppb	26.13	2.00	
55 Mn	72	1	0.093 ppb	6.62	2.00	
59 Co	72	1	0.010 ppb	35.68	2.00	
60 Ni	72	1	-0.041 ppb	16.90	2.00	
63 Cu	72	1	0.267 ppb	7.76	2.00	
66 Zn	72	1	0.978 ppb	1.93	2.00	
75 As	72	1	0.017 ppb	20.94	2.00	
78 Se	72	1	-0.023 ppb	1124.80	2.00	
95 Mo	72	1	0.019 ppb	37.70	2.00	
107 Ag	115	1	0.005 ppb	39.93	2.00	
111 Cd	115	1	0.017 ppb	6.99	2.00	
118 Sn	115	1	0.057 ppb	15.08	2.00	
121 Sb	115	1	0.016 ppb	10.30	2.00	
137 Ba	115	1	0.269 ppb	5.54	2.00	
205 Tl	165	1	0.022 ppb	2.79	2.00	
208 Pb	165	1	0.031 ppb	1.98	2.00	
232 Th	165	1	0.019 ppb	2.08	2.00	
238 U	165	1	0.015 ppb	2.71	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	485615	0.75	619221	78.4	30 - 120	
45 Sc	1	2809637	2.16	2917438	96.3	30 - 120	
72 Ge	1	1716827	2.00	1732493	99.1	30 - 120	
115 In	1	4685413	2.14	4820582	97.2	30 - 120	
165 Ho	1	8929008	0.64	9792536	91.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\070_LCS.D\070_LCS.D#
Date Acquired: Nov 1 2011 09:20 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: lcs 280-91956/2-a
Misc Info: LCS
Vial Number: 2501
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	46.53	0.97	40	116.3	80 - 120	
51	V	72	1	42.10	2.37	40	105.3	80 - 120	
52	Cr	72	1	41.65	1.58	40	104.1	80 - 120	
55	Mn	72	1	39.89	2.63	40	99.7	80 - 120	
59	Co	72	1	41.11	0.34	40	102.8	80 - 120	
60	Ni	72	1	39.79	0.18	40	99.5	80 - 120	
63	Cu	72	1	40.74	0.33	40	101.9	80 - 120	
66	Zn	72	1	42.07	0.54	40	105.2	80 - 120	
75	As	72	1	43.42	0.87	40	108.6	80 - 120	
78	Se	72	1	41.90	0.52	40	104.8	80 - 120	
95	Mo	72	1	40.81	0.51	40	102.0	80 - 120	
107	Ag	115	1	42.16	0.69	40	105.4	80 - 120	
111	Cd	115	1	41.60	0.35	40	104.0	80 - 120	
118	Sn	115	1	40.28	0.66	40	100.7	80 - 120	
121	Sb	115	1	42.39	0.78	40	106.0	80 - 120	
137	Ba	115	1	43.04	0.33	40	107.6	80 - 120	
205	Tl	165	1	40.96	0.72	40	102.4	80 - 120	
208	Pb	165	1	39.64	1.43	40	99.1	80 - 120	
232	Th	165	1	39.23	0.96	40	98.1	80 - 120	
238	U	165	1	39.52	2.27	40	98.8	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489700	0.40	619221	79.1	30 - 120	
45	Sc	1	2785379	1.58	2917438	95.5	30 - 120	
72	Ge	1	1714437	0.92	1732493	99.0	30 - 120	
115	In	1	4697209	0.76	4820582	97.4	30 - 120	
165	Ho	1	8924128	1.74	9792536	91.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\071AREF.D\071AREF.D#
Date Acquired:	Nov 1 2011 09:23 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-21-a
Misc Info:	
Vial Number:	2502
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.27	0.27	ppb	17.39	3600	
51	V	72	1	12.32	12.32	ppb	1.81	3600	
52	Cr	72	1	7.30	7.30	ppb	1.53	3600	
55	Mn	72	1	144.20	144.20	ppb	2.28	18000	
59	Co	72	1	3.05	3.05	ppb	1.44	3600	
60	Ni	72	1	6.98	6.98	ppb	0.24	3600	
63	Cu	72	1	4.39	4.39	ppb	0.32	3600	
66	Zn	72	1	18.59	18.59	ppb	0.90	3600	
75	As	72	1	4.32	4.32	ppb	1.98	3600	
78	Se	72	1	1.10	1.10	ppb	8.73	3600	
95	Mo	72	1	0.34	0.34	ppb	3.64	3600	
107	Ag	115	1	0.04	0.04	ppb	3.75	3600	
111	Cd	115	1	0.08	0.08	ppb	12.33	3600	
118	Sn	115	1	0.14	0.14	ppb	7.27	3600	
121	Sb	115	1	0.04	0.04	ppb	1.68	3600	
137	Ba	115	1	9.60	9.60	ppb	2.00	3600	
205	Tl	165	1	0.15	0.15	ppb	5.22	3600	
208	Pb	165	1	6.64	6.64	ppb	0.13	3600	
232	Th	165	1	5.76	5.76	ppb	0.46	1000	
238	U	165	1	1.00	1.00	ppb	0.11	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	494523	1.21	619221	79.9	30 - 120	
45	Sc	1	2838532	0.84	2917438	97.3	30 - 120	
72	Ge	1	1738654	0.64	1732493	100.4	30 - 120	
115	In	1	4654599	0.56	4820582	96.6	30 - 120	
165	Ho	1	8940320	0.33	9792536	91.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\072SDIL.D\072SDIL.D#
Date Acquired: Nov 1 2011 09:26 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-21-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2503
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110111.B\071AREF.D\071AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.07	ppb	83.21	0.05	139.1	90 - 110	
51	V	72	1	2.44	ppb	3.56	2.46	99.0	90 - 110	
52	Cr	72	1	1.45	ppb	4.72	1.46	99.4	90 - 110	
55	Mn	72	1	28.70	ppb	2.38	28.84	99.5	90 - 110	
59	Co	72	1	0.62	ppb	1.28	0.61	101.5	90 - 110	
60	Ni	72	1	1.37	ppb	4.61	1.40	98.2	90 - 110	
63	Cu	72	1	0.91	ppb	1.25	0.88	103.5	90 - 110	
66	Zn	72	1	3.82	ppb	2.76	3.72	102.6	90 - 110	
75	As	72	1	0.89	ppb	3.56	0.86	102.5	90 - 110	
78	Se	72	1	0.47	ppb	51.89	0.22	215.6	90 - 110	
95	Mo	72	1	0.07	ppb	4.68	0.07	107.2	90 - 110	
107	Ag	115	1	0.01	ppb	20.82	0.01	109.0	90 - 110	
111	Cd	115	1	0.01	ppb	47.70	0.02	71.1	90 - 110	
118	Sn	115	1	0.04	ppb	17.23	0.03	151.4	90 - 110	
121	Sb	115	1	0.01	ppb	21.96	0.01	176.7	90 - 110	
137	Ba	115	1	2.00	ppb	4.30	1.92	103.9	90 - 110	
205	Tl	165	1	0.03	ppb	5.55	0.03	106.8	90 - 110	
208	Pb	165	1	1.33	ppb	1.42	1.33	100.2	90 - 110	
232	Th	165	1	1.15	ppb	3.15	1.15	100.2	90 - 110	
238	U	165	1	0.20	ppb	3.40	0.20	102.2	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	494553	0.77	619221	79.9	30 - 120	
45	Sc	1	2834277	1.48	2917438	97.1	30 - 120	
72	Ge	1	1744015	0.65	1732493	100.7	30 - 120	
115	In	1	4709147	1.29	4820582	97.7	30 - 120	
165	Ho	1	8975884	0.69	9792536	91.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\073PDS.D\073PDS.D#		
Date Acquired:	Nov 1 2011 09:28 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	TEL	ISTD:	Pass
Sample Name:	280-21683-a-21-a PDS		
Misc Info:	POST DIGESTION SPIKE		
Vial Number:	2504		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 01 2011 06:09 pm		
Sample Type:	PDS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	223.40	0.27	ppb	0.31	200	111.5	75 - 125	
51	V	72	1	200.60	12.32	ppb	1.88	200	94.5	75 - 125	
52	Cr	72	1	193.10	7.30	ppb	1.52	200	93.2	75 - 125	
55	Mn	72	1	320.40	144.20	ppb	2.99	200	93.1	75 - 125	
59	Co	72	1	189.20	3.05	ppb	2.57	200	93.2	75 - 125	
60	Ni	72	1	199.10	6.98	ppb	0.92	200	96.2	75 - 125	
63	Cu	72	1	192.90	4.39	ppb	1.14	200	94.4	75 - 125	
66	Zn	72	1	212.70	18.59	ppb	1.17	200	97.3	75 - 125	
75	As	72	1	211.00	4.32	ppb	1.76	200	103.3	75 - 125	
78	Se	72	1	194.70	1.10	ppb	2.82	200	96.8	75 - 125	
95	Mo	72	1	199.30	0.34	ppb	1.96	200	99.5	75 - 125	
107	Ag	115	1	49.61	0.04	ppb	2.64	50	99.1	75 - 125	
111	Cd	115	1	199.20	0.08	ppb	1.62	200	99.6	75 - 125	
118	Sn	115	1	194.50	0.14	ppb	1.14	200	97.2	75 - 125	
121	Sb	115	1	205.90	0.04	ppb	2.30	200	102.9	75 - 125	
137	Ba	115	1	217.90	9.60	ppb	1.34	200	104.0	75 - 125	
205	Tl	165	1	188.20	0.15	ppb	0.35	200	94.0	75 - 125	
208	Pb	165	1	191.70	6.64	ppb	0.85	200	92.8	75 - 125	
232	Th	165	1	5.61	5.76	ppb	1.08	200	2.7	75 - 125	
238	U	165	1	181.30	1.00	ppb	2.39	200	90.2	75 - 125	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	485621	0.89	619221	78.4	30 - 120	
45	Sc	1	2777701	0.23	2917438	95.2	30 - 120	
72	Ge	1	1710279	1.97	1732493	98.7	30 - 120	
115	In	1	4642559	2.41	4820582	96.3	30 - 120	
165	Ho	1	8889990	1.04	9792536	90.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\074_MS.D\074_MS.D#
Date Acquired:	Nov 1 2011 09:31 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-21-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	2505
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00
Spike Ref. File:	---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	45.69	0.27	ppb	2.51	40	113.5	50 - 150	
51 V	72	1	59.04	12.32	ppb	1.56	40	112.8	50 - 150	
52 Cr	72	1	49.64	7.30	ppb	1.06	40	105.0	50 - 150	
55 Mn	72	1	222.40	144.20	ppb	0.96	40	120.7	50 - 150	
59 Co	72	1	42.66	3.05	ppb	0.05	40	99.1	50 - 150	
60 Ni	72	1	44.03	6.98	ppb	1.92	40	93.7	50 - 150	
63 Cu	72	1	44.05	4.39	ppb	1.94	40	99.2	50 - 150	
66 Zn	72	1	70.15	18.59	ppb	1.84	40	119.7	50 - 150	
75 As	72	1	46.21	4.32	ppb	1.35	40	104.3	50 - 150	
78 Se	72	1	39.10	1.10	ppb	4.63	40	95.1	50 - 150	
95 Mo	72	1	37.51	0.34	ppb	2.45	40	93.0	50 - 150	
107 Ag	115	1	38.98	0.04	ppb	1.24	40	97.4	50 - 150	
111 Cd	115	1	40.16	0.08	ppb	0.99	40	100.2	50 - 150	
118 Sn	115	1	20.32	0.14	ppb	2.61	40	50.6	50 - 150	
121 Sb	115	1	12.66	0.04	ppb	1.37	40	31.6	50 - 150	
137 Ba	115	1	51.98	9.60	ppb	1.42	40	104.8	50 - 150	
205 Tl	165	1	39.25	0.15	ppb	1.30	40	97.8	50 - 150	
208 Pb	165	1	46.23	6.64	ppb	1.34	40	99.1	50 - 150	
232 Th	165	1	43.65	5.76	ppb	2.31	40	95.4	50 - 150	
238 U	165	1	38.65	1.00	ppb	2.64	40	94.3	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	483552	0.33	619221	78.1	30 - 120	
45 Sc	1	2810845	1.25	2917438	96.3	30 - 120	
72 Ge	1	1726236	1.14	1732493	99.6	30 - 120	
115 In	1	4591868	1.50	4820582	95.3	30 - 120	
165 Ho	1	8883735	0.73	9792536	90.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\075_MSD.D\075_MSD.D#
Date Acquired: Nov 1 2011 09:34 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-21-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 2506
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110111.B\074_MS.D\074_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	46.13	ppb	2.01	45.69	0.96	20	
51	V	72	1	65.53	ppb	2.76	59.04	10.42	20	
52	Cr	72	1	51.10	ppb	1.98	49.64	2.90	20	
55	Mn	72	1	275.70	ppb	3.00	222.40	21.40	20	
59	Co	72	1	44.26	ppb	0.82	42.66	3.68	20	
60	Ni	72	1	51.28	ppb	1.86	44.03	15.21	20	
63	Cu	72	1	42.75	ppb	1.97	44.05	3.00	20	
66	Zn	72	1	65.20	ppb	1.16	70.15	7.31	20	
75	As	72	1	44.24	ppb	0.96	46.21	4.36	20	
78	Se	72	1	39.35	ppb	4.20	39.10	0.64	20	
95	Mo	72	1	36.52	ppb	2.42	37.51	2.67	20	
107	Ag	115	1	39.64	ppb	1.03	38.98	1.68	20	
111	Cd	115	1	40.55	ppb	1.82	40.16	0.97	20	
118	Sn	115	1	23.20	ppb	0.72	20.32	13.24	20	
121	Sb	115	1	14.00	ppb	1.58	12.66	10.05	20	
137	Ba	115	1	50.87	ppb	2.08	51.98	2.16	20	
205	Tl	165	1	39.52	ppb	0.67	39.25	0.69	20	
208	Pb	165	1	44.58	ppb	0.03	46.23	3.63	20	
232	Th	165	1	43.40	ppb	1.01	43.65	0.57	20	
238	U	165	1	38.65	ppb	2.09	38.65	0.00	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	477544	1.38	619221	77.1	30 - 120	
45	Sc	1	2794446	0.90	2917438	95.8	30 - 120	
72	Ge	1	1718311	0.57	1732493	99.2	30 - 120	
115	In	1	4535026	1.85	4820582	94.1	30 - 120	
165	Ho	1	8781086	0.79	9792536	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\076SMPL.D\076SMPL.D#
Date Acquired:	Nov 1 2011 09:37 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-22-a
Misc Info:	
Vial Number:	2507
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	8.16	3600	
51	V	72	1	19.56	19.56	ppb	1.61	3600	
52	Cr	72	1	11.92	11.92	ppb	0.86	3600	
55	Mn	72	1	174.20	174.20	ppb	2.62	18000	
59	Co	72	1	3.55	3.55	ppb	0.68	3600	
60	Ni	72	1	7.86	7.86	ppb	0.75	3600	
63	Cu	72	1	5.04	5.04	ppb	1.93	3600	
66	Zn	72	1	19.13	19.13	ppb	0.87	3600	
75	As	72	1	4.60	4.60	ppb	2.48	3600	
78	Se	72	1	1.73	1.73	ppb	30.91	3600	
95	Mo	72	1	0.44	0.44	ppb	1.82	3600	
107	Ag	115	1	0.04	0.04	ppb	9.12	3600	
111	Cd	115	1	0.08	0.08	ppb	9.46	3600	
118	Sn	115	1	0.10	0.10	ppb	11.36	3600	
121	Sb	115	1	0.03	0.03	ppb	11.04	3600	
137	Ba	115	1	16.74	16.74	ppb	1.38	3600	
205	Tl	165	1	0.16	0.16	ppb	2.01	3600	
208	Pb	165	1	7.35	7.35	ppb	1.65	3600	
232	Th	165	1	9.34	9.34	ppb	2.68	1000	
238	U	165	1	1.47	1.47	ppb	1.12	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	480123	0.93	619221	77.5	30 - 120	
45	Sc	1	2755716	1.20	2917438	94.5	30 - 120	
72	Ge	1	1687491	0.80	1732493	97.4	30 - 120	
115	In	1	4570340	0.08	4820582	94.8	30 - 120	
165	Ho	1	8825416	0.27	9792536	90.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\077SMPL.D\077SMPL.D#	
Date Acquired:	Nov 1 2011 09:40 pm	
Acq. Method:	NormISIS.M	**QC Summary:**
Operator:	TEL	**Analytes: Pass**
Sample Name:	280-21683-a-23-a	**ISTD: Pass**
Misc Info:		
Vial Number:	2508	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 01 2011 06:09 pm	
Sample Type:	SA	
Dilution Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	17.72	3600	
51	V	72	1	17.61	17.61	ppb	1.31	3600	
52	Cr	72	1	10.38	10.38	ppb	1.08	3600	
55	Mn	72	1	181.70	181.70	ppb	1.26	18000	
59	Co	72	1	3.35	3.35	ppb	1.13	3600	
60	Ni	72	1	6.82	6.82	ppb	2.86	3600	
63	Cu	72	1	5.04	5.04	ppb	1.10	3600	
66	Zn	72	1	17.31	17.31	ppb	1.01	3600	
75	As	72	1	4.23	4.23	ppb	0.50	3600	
78	Se	72	1	1.31	1.31	ppb	22.77	3600	
95	Mo	72	1	0.38	0.38	ppb	4.52	3600	
107	Ag	115	1	0.03	0.03	ppb	8.73	3600	
111	Cd	115	1	0.08	0.08	ppb	20.29	3600	
118	Sn	115	1	0.10	0.10	ppb	4.54	3600	
121	Sb	115	1	0.03	0.03	ppb	7.85	3600	
137	Ba	115	1	15.64	15.64	ppb	1.13	3600	
205	Tl	165	1	0.14	0.14	ppb	1.32	3600	
208	Pb	165	1	7.21	7.21	ppb	0.95	3600	
232	Th	165	1	8.80	8.80	ppb	1.41	1000	
238	U	165	1	1.33	1.33	ppb	0.45	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	475588	0.74	619221	76.8	30 - 120	
45	Sc	1	2779898	1.67	2917438	95.3	30 - 120	
72	Ge	1	1712451	0.99	1732493	98.8	30 - 120	
115	In	1	4594594	0.86	4820582	95.3	30 - 120	
165	Ho	1	8885414	0.49	9792536	90.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\078_CCV.D\078_CCV.D#
Date Acquired:	Nov 1 2011 09:43 pm
Operator:	TEL
Sample Name:	CCV-1103570
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	57.32	ppb	0.29	50	114.6	90 - 110	Fail
51	V	72	1	50.08	ppb	3.09	50	100.2	90 - 110	
52	Cr	72	1	49.78	ppb	2.11	50	99.6	90 - 110	
55	Mn	72	1	48.83	ppb	1.56	50	97.7	90 - 110	
59	Co	72	1	49.31	ppb	1.68	50	98.6	90 - 110	
60	Ni	72	1	48.06	ppb	1.45	50	96.1	90 - 110	
63	Cu	72	1	49.61	ppb	1.90	50	99.2	90 - 110	
66	Zn	72	1	51.17	ppb	1.77	50	102.3	90 - 110	
75	As	72	1	53.07	ppb	1.21	50	106.1	90 - 110	
78	Se	72	1	49.89	ppb	2.37	50	99.8	90 - 110	
95	Mo	72	1	49.69	ppb	2.34	50	99.4	90 - 110	
107	Ag	115	1	50.95	ppb	1.93	50	101.9	90 - 110	
111	Cd	115	1	50.55	ppb	0.87	50	101.1	90 - 110	
118	Sn	115	1	48.38	ppb	0.24	50	96.8	90 - 110	
121	Sb	115	1	51.97	ppb	0.38	50	103.9	90 - 110	
137	Ba	115	1	51.32	ppb	0.64	50	102.6	90 - 110	
205	Tl	165	1	49.66	ppb	1.19	50	99.3	90 - 110	
208	Pb	165	1	47.85	ppb	1.41	50	95.7	90 - 110	
232	Th	165	1	48.05	ppb	2.18	50	96.1	90 - 110	
238	U	165	1	46.72	ppb	1.03	50	93.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	477366	0.75	619221	77.1	30 - 120	
45	Sc	1	2744771	0.48	2917438	94.1	30 - 120	
72	Ge	1	1705180	2.01	1732493	98.4	30 - 120	
115	In	1	4636722	0.80	4820582	96.2	30 - 120	
165	Ho	1	8840694	0.91	9792536	90.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\079_CCB.D\079_CCB.D#
Date Acquired:	Nov 1 2011 09:46 pm
Operator:	TEL
Sample Name:	CCB-1103571
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.034	ppb	104.38	1.00	
51	V	72	1	-0.006	ppb	72.68	1.00	
52	Cr	72	1	-0.013	ppb	48.98	1.00	
55	Mn	72	1	0.035	ppb	24.60	1.00	
59	Co	72	1	0.011	ppb	20.87	1.00	
60	Ni	72	1	-0.068	ppb	3.33	1.00	
63	Cu	72	1	0.024	ppb	42.37	1.00	
66	Zn	72	1	0.084	ppb	15.78	1.00	
75	As	72	1	0.013	ppb	29.27	1.00	
78	Se	72	1	-0.057	ppb	400.49	1.00	
95	Mo	72	1	0.012	ppb	50.59	1.00	
107	Ag	115	1	0.010	ppb	24.69	1.00	
111	Cd	115	1	0.007	ppb	20.86	1.00	
118	Sn	115	1	0.046	ppb	5.64	1.00	
121	Sb	115	1	0.018	ppb	7.67	1.00	
137	Ba	115	1	0.010	ppb	31.59	1.00	
205	Tl	165	1	0.025	ppb	4.30	1.00	
208	Pb	165	1	0.013	ppb	11.17	1.00	
232	Th	165	1	0.033	ppb	9.59	1.00	
238	U	165	1	0.012	ppb	6.14	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	475281	1.02	619221	76.8	30 - 120	
45	Sc	1	2773605	0.38	2917438	95.1	30 - 120	
72	Ge	1	1715464	1.27	1732493	99.0	30 - 120	
115	In	1	4674742	1.24	4820582	97.0	30 - 120	
165	Ho	1	8800460	0.81	9792536	89.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\080WASH.D\080WASH.D#
Date Acquired: Nov 1 2011 09:49 pm
Operator: TEL
Sample Name: LLICV-1103572
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.458 ppb	10.32	1.30	
51	V	72	1	4.898 ppb	0.47	6.50	
52	Cr	72	1	2.100 ppb	0.33	2.60	
55	Mn	72	1	1.145 ppb	1.52	1.30	
59	Co	72	1	1.040 ppb	1.32	1.30	
60	Ni	72	1	2.040 ppb	2.35	2.60	
63	Cu	72	1	2.204 ppb	1.39	2.60	
66	Zn	72	1	10.660 ppb	0.87	13.00	
75	As	72	1	5.449 ppb	1.62	6.50	
78	Se	72	1	5.378 ppb	1.13	6.50	
95	Mo	72	1	2.103 ppb	1.76	2.60	
107	Ag	115	1	4.957 ppb	0.59	6.50	
111	Cd	115	1	1.044 ppb	2.57	1.30	
118	Sn	115	1	9.705 ppb	2.57	13.00	
121	Sb	115	1	2.128 ppb	1.62	2.60	
137	Ba	115	1	1.100 ppb	1.44	1.30	
205	Tl	165	1	1.053 ppb	1.63	1.30	
208	Pb	165	1	1.019 ppb	0.73	1.30	
232	Th	165	1	1.967 ppb	2.10	2.60	
238	U	165	1	0.977 ppb	1.61	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	478002	0.91	619221	77.2	30 - 120	
45	Sc	1	2738369	1.14	2917438	93.9	30 - 120	
72	Ge	1	1696802	1.05	1732493	97.9	30 - 120	
115	In	1	4685236	0.48	4820582	97.2	30 - 120	
165	Ho	1	8857877	0.98	9792536	90.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\081_BLK.D\081_BLK.D#
Date Acquired: Nov 1 2011 09:51 pm
Operator: TEL
Sample Name: mb 280-91956/1-a
Misc Info: BLANK 91956 Soil DoD4/6020A
Vial Number: 2412
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.001 ppb	760.42	2.00	
51	V	72	1	-0.014 ppb	93.63	2.00	
52	Cr	72	1	0.068 ppb	23.04	2.00	
55	Mn	72	1	0.078 ppb	5.61	2.00	
59	Co	72	1	0.008 ppb	38.57	2.00	
60	Ni	72	1	-0.045 ppb	25.84	2.00	
63	Cu	72	1	0.253 ppb	1.73	2.00	
66	Zn	72	1	0.946 ppb	0.31	2.00	
75	As	72	1	0.025 ppb	13.70	2.00	
78	Se	72	1	-0.061 ppb	208.56	2.00	
95	Mo	72	1	0.013 ppb	22.67	2.00	
107	Ag	115	1	0.007 ppb	27.44	2.00	
111	Cd	115	1	0.008 ppb	56.01	2.00	
118	Sn	115	1	0.041 ppb	23.65	2.00	
121	Sb	115	1	0.017 ppb	9.72	2.00	
137	Ba	115	1	0.262 ppb	7.07	2.00	
205	Tl	165	1	0.023 ppb	5.45	2.00	
208	Pb	165	1	0.030 ppb	2.54	2.00	
232	Th	165	1	0.022 ppb	3.80	2.00	
238	U	165	1	0.015 ppb	2.31	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	482190	1.23	619221	77.9	30 - 120	
45	Sc	1	2772330	1.38	2917438	95.0	30 - 120	
72	Ge	1	1709874	1.27	1732493	98.7	30 - 120	
115	In	1	4620606	0.11	4820582	95.9	30 - 120	
165	Ho	1	8810884	0.81	9792536	90.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\082SMPL.D\082SMPL.D#
Date Acquired:	Nov 1 2011 09:54 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-24-a
Misc Info:	
Vial Number:	2509
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.68	0.68	ppb	12.28	3600	
51	V	72	1	19.33	19.33	ppb	1.87	3600	
52	Cr	72	1	11.64	11.64	ppb	1.33	3600	
55	Mn	72	1	239.00	239.00	ppb	1.68	18000	
59	Co	72	1	7.56	7.56	ppb	1.81	3600	
60	Ni	72	1	8.77	8.77	ppb	2.14	3600	
63	Cu	72	1	7.99	7.99	ppb	0.86	3600	
66	Zn	72	1	27.49	27.49	ppb	1.35	3600	
75	As	72	1	6.88	6.88	ppb	1.98	3600	
78	Se	72	1	1.75	1.75	ppb	36.86	3600	
95	Mo	72	1	0.52	0.52	ppb	6.71	3600	
107	Ag	115	1	0.03	0.03	ppb	6.25	3600	
111	Cd	115	1	0.12	0.12	ppb	5.44	3600	
118	Sn	115	1	0.12	0.12	ppb	17.35	3600	
121	Sb	115	1	0.03	0.03	ppb	8.43	3600	
137	Ba	115	1	20.30	20.30	ppb	1.74	3600	
205	Tl	165	1	0.18	0.18	ppb	1.22	3600	
208	Pb	165	1	8.09	8.09	ppb	0.93	3600	
232	Th	165	1	11.33	11.33	ppb	0.85	1000	
238	U	165	1	1.88	1.88	ppb	1.51	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	477120	0.42	619221	77.1	30 - 120	
45	Sc	1	2768019	1.58	2917438	94.9	30 - 120	
72	Ge	1	1707812	0.61	1732493	98.6	30 - 120	
115	In	1	4586461	1.12	4820582	95.1	30 - 120	
165	Ho	1	8791890	1.44	9792536	89.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\083SMPL.D\083SMPL.D#
Date Acquired:	Nov 1 2011 09:57 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-25-a
Misc Info:	
Vial Number:	2510
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	20.85	3600	
51	V	72	1	17.39	17.39	ppb	2.02	3600	
52	Cr	72	1	9.59	9.59	ppb	1.71	3600	
55	Mn	72	1	136.70	136.70	ppb	1.84	18000	
59	Co	72	1	2.11	2.11	ppb	0.81	3600	
60	Ni	72	1	4.85	4.85	ppb	1.08	3600	
63	Cu	72	1	3.92	3.92	ppb	1.44	3600	
66	Zn	72	1	14.90	14.90	ppb	0.85	3600	
75	As	72	1	3.73	3.73	ppb	2.13	3600	
78	Se	72	1	1.42	1.42	ppb	10.53	3600	
95	Mo	72	1	0.42	0.42	ppb	3.75	3600	
107	Ag	115	1	0.03	0.03	ppb	19.06	3600	
111	Cd	115	1	0.07	0.07	ppb	19.00	3600	
118	Sn	115	1	0.08	0.08	ppb	13.49	3600	
121	Sb	115	1	0.02	0.02	ppb	10.03	3600	
137	Ba	115	1	13.84	13.84	ppb	0.48	3600	
205	Tl	165	1	0.10	0.10	ppb	2.49	3600	
208	Pb	165	1	6.75	6.75	ppb	2.19	3600	
232	Th	165	1	7.84	7.84	ppb	1.85	1000	
238	U	165	1	1.12	1.12	ppb	1.41	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	471350	0.77	619221	76.1	30 - 120	
45	Sc	1	2757961	1.65	2917438	94.5	30 - 120	
72	Ge	1	1696389	0.78	1732493	97.9	30 - 120	
115	In	1	4614629	0.93	4820582	95.7	30 - 120	
165	Ho	1	8788682	0.95	9792536	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\084SMPL.D\084SMPL.D#
Date Acquired:	Nov 1 2011 10:00 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-26-a
Misc Info:	
Vial Number:	2511
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.24	0.24	ppb	21.73	3600	
51	V	72	1	17.28	17.28	ppb	0.96	3600	
52	Cr	72	1	9.09	9.09	ppb	0.54	3600	
55	Mn	72	1	121.50	121.50	ppb	1.03	18000	
59	Co	72	1	1.58	1.58	ppb	1.85	3600	
60	Ni	72	1	4.04	4.04	ppb	1.76	3600	
63	Cu	72	1	3.30	3.30	ppb	1.17	3600	
66	Zn	72	1	14.18	14.18	ppb	0.71	3600	
75	As	72	1	3.54	3.54	ppb	2.18	3600	
78	Se	72	1	1.54	1.54	ppb	21.66	3600	
95	Mo	72	1	0.48	0.48	ppb	5.14	3600	
107	Ag	115	1	0.03	0.03	ppb	14.76	3600	
111	Cd	115	1	0.07	0.07	ppb	10.38	3600	
118	Sn	115	1	0.05	0.05	ppb	17.59	3600	
121	Sb	115	1	0.02	0.02	ppb	16.69	3600	
137	Ba	115	1	15.47	15.47	ppb	0.58	3600	
205	Tl	165	1	0.09	0.09	ppb	1.63	3600	
208	Pb	165	1	28.65	28.65	ppb	0.98	3600	
232	Th	165	1	8.42	8.42	ppb	2.00	1000	
238	U	165	1	1.16	1.16	ppb	1.32	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	476936	0.55	619221	77.0	30 - 120	
45	Sc	1	2744790	2.15	2917438	94.1	30 - 120	
72	Ge	1	1680728	0.72	1732493	97.0	30 - 120	
115	In	1	4624626	0.59	4820582	95.9	30 - 120	
165	Ho	1	8894343	0.75	9792536	90.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\085SMPL.D\085SMPL.D#
Date Acquired:	Nov 1 2011 10:03 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-27-a
Misc Info:	
Vial Number:	2512
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.29	0.29	ppb	15.48	3600	
51	V	72	1	20.94	20.94	ppb	2.12	3600	
52	Cr	72	1	11.91	11.91	ppb	0.62	3600	
55	Mn	72	1	156.20	156.20	ppb	0.61	18000	
59	Co	72	1	2.60	2.60	ppb	1.42	3600	
60	Ni	72	1	6.65	6.65	ppb	0.29	3600	
63	Cu	72	1	3.23	3.23	ppb	2.76	3600	
66	Zn	72	1	18.04	18.04	ppb	1.26	3600	
75	As	72	1	4.13	4.13	ppb	1.26	3600	
78	Se	72	1	1.93	1.93	ppb	11.53	3600	
95	Mo	72	1	0.50	0.50	ppb	3.90	3600	
107	Ag	115	1	0.03	0.03	ppb	5.77	3600	
111	Cd	115	1	0.07	0.07	ppb	37.57	3600	
118	Sn	115	1	0.11	0.11	ppb	6.72	3600	
121	Sb	115	1	0.02	0.02	ppb	16.41	3600	
137	Ba	115	1	13.21	13.21	ppb	2.04	3600	
205	Tl	165	1	0.09	0.09	ppb	2.32	3600	
208	Pb	165	1	8.42	8.42	ppb	0.67	3600	
232	Th	165	1	10.73	10.73	ppb	0.76	1000	
238	U	165	1	1.57	1.57	ppb	0.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	469777	1.22	619221	75.9	30 - 120	
45	Sc	1	2737191	1.81	2917438	93.8	30 - 120	
72	Ge	1	1700366	1.58	1732493	98.1	30 - 120	
115	In	1	4569314	1.83	4820582	94.8	30 - 120	
165	Ho	1	8831670	0.71	9792536	90.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\086SMPL.D\086SMPL.D#
Date Acquired: Nov 1 2011 10:06 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-28-a
Misc Info:
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	9.28	3600	
51	V	72	1	20.16	20.16	ppb	0.60	3600	
52	Cr	72	1	10.12	10.12	ppb	1.69	3600	
55	Mn	72	1	195.70	195.70	ppb	0.89	18000	
59	Co	72	1	4.07	4.07	ppb	1.39	3600	
60	Ni	72	1	6.36	6.36	ppb	1.40	3600	
63	Cu	72	1	6.53	6.53	ppb	0.58	3600	
66	Zn	72	1	21.72	21.72	ppb	0.37	3600	
75	As	72	1	5.66	5.66	ppb	1.24	3600	
78	Se	72	1	1.73	1.73	ppb	12.92	3600	
95	Mo	72	1	0.43	0.43	ppb	6.46	3600	
107	Ag	115	1	0.04	0.04	ppb	10.97	3600	
111	Cd	115	1	0.08	0.08	ppb	24.61	3600	
118	Sn	115	1	0.07	0.07	ppb	15.23	3600	
121	Sb	115	1	0.03	0.03	ppb	9.45	3600	
137	Ba	115	1	17.85	17.85	ppb	1.20	3600	
205	Tl	165	1	0.17	0.17	ppb	2.01	3600	
208	Pb	165	1	10.16	10.16	ppb	1.31	3600	
232	Th	165	1	8.44	8.44	ppb	1.47	1000	
238	U	165	1	1.43	1.43	ppb	1.12	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	471643	0.49	619221	76.2	30 - 120	
45	Sc	1	2748512	0.45	2917438	94.2	30 - 120	
72	Ge	1	1697136	1.14	1732493	98.0	30 - 120	
115	In	1	4617411	1.13	4820582	95.8	30 - 120	
165	Ho	1	8906006	0.28	9792536	90.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\087SMPL.D\087SMPL.D#
Date Acquired:	Nov 1 2011 10:09 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-29-a
Misc Info:	
Vial Number:	3102
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.40	0.40	ppb	26.49	3600	
51	V	72	1	22.84	22.84	ppb	2.04	3600	
52	Cr	72	1	12.96	12.96	ppb	2.99	3600	
55	Mn	72	1	236.80	236.80	ppb	2.10	18000	
59	Co	72	1	4.64	4.64	ppb	1.98	3600	
60	Ni	72	1	9.49	9.49	ppb	1.68	3600	
63	Cu	72	1	7.27	7.27	ppb	2.71	3600	
66	Zn	72	1	24.15	24.15	ppb	0.71	3600	
75	As	72	1	5.61	5.61	ppb	1.12	3600	
78	Se	72	1	1.45	1.45	ppb	19.06	3600	
95	Mo	72	1	0.46	0.46	ppb	6.47	3600	
107	Ag	115	1	0.04	0.04	ppb	13.61	3600	
111	Cd	115	1	0.09	0.09	ppb	14.05	3600	
118	Sn	115	1	0.08	0.08	ppb	15.57	3600	
121	Sb	115	1	0.03	0.03	ppb	10.71	3600	
137	Ba	115	1	21.70	21.70	ppb	1.17	3600	
205	Tl	165	1	0.18	0.18	ppb	0.49	3600	
208	Pb	165	1	11.73	11.73	ppb	0.08	3600	
232	Th	165	1	8.97	8.97	ppb	0.92	1000	
238	U	165	1	1.54	1.54	ppb	1.87	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	464950	0.20	619221	75.1	30 - 120	
45	Sc	1	2784231	1.29	2917438	95.4	30 - 120	
72	Ge	1	1707571	1.13	1732493	98.6	30 - 120	
115	In	1	4532500	0.43	4820582	94.0	30 - 120	
165	Ho	1	8845836	0.68	9792536	90.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\088SMPL.D\088SMPL.D#
Date Acquired: Nov 1 2011 10:12 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-b-30-a
Misc Info:
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	13.39	3600	
51	V	72	1	20.38	20.38	ppb	0.61	3600	
52	Cr	72	1	12.07	12.07	ppb	0.77	3600	
55	Mn	72	1	122.40	122.40	ppb	0.82	18000	
59	Co	72	1	3.10	3.10	ppb	1.45	3600	
60	Ni	72	1	7.44	7.44	ppb	1.03	3600	
63	Cu	72	1	4.27	4.27	ppb	2.32	3600	
66	Zn	72	1	23.81	23.81	ppb	0.25	3600	
75	As	72	1	4.63	4.63	ppb	0.57	3600	
78	Se	72	1	1.65	1.65	ppb	11.69	3600	
95	Mo	72	1	0.49	0.49	ppb	3.11	3600	
107	Ag	115	1	0.03	0.03	ppb	5.51	3600	
111	Cd	115	1	0.09	0.09	ppb	8.62	3600	
118	Sn	115	1	0.08	0.08	ppb	5.91	3600	
121	Sb	115	1	0.02	0.02	ppb	7.96	3600	
137	Ba	115	1	14.83	14.83	ppb	1.00	3600	
205	Tl	165	1	0.14	0.14	ppb	1.84	3600	
208	Pb	165	1	8.10	8.10	ppb	1.33	3600	
232	Th	165	1	8.94	8.94	ppb	1.48	1000	
238	U	165	1	1.58	1.58	ppb	0.40	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	463489	0.44	619221	74.9	30 - 120	
45	Sc	1	2750626	0.23	2917438	94.3	30 - 120	
72	Ge	1	1701510	1.00	1732493	98.2	30 - 120	
115	In	1	4579606	0.63	4820582	95.0	30 - 120	
165	Ho	1	8708100	0.47	9792536	88.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\089SMPL.D\089SMPL.D#
Date Acquired:	Nov 1 2011 10:15 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-31-a
Misc Info:	
Vial Number:	3104
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.60	0.60	ppb	10.09	3600	
51	V	72	1	20.45	20.45	ppb	1.27	3600	
52	Cr	72	1	13.34	13.34	ppb	0.64	3600	
55	Mn	72	1	510.40	510.40	ppb	1.83	18000	
59	Co	72	1	8.04	8.04	ppb	0.44	3600	
60	Ni	72	1	11.62	11.62	ppb	1.34	3600	
63	Cu	72	1	8.17	8.17	ppb	1.73	3600	
66	Zn	72	1	31.90	31.90	ppb	1.00	3600	
75	As	72	1	6.81	6.81	ppb	0.89	3600	
78	Se	72	1	1.70	1.70	ppb	31.99	3600	
95	Mo	72	1	0.45	0.45	ppb	1.49	3600	
107	Ag	115	1	0.02	0.02	ppb	5.50	3600	
111	Cd	115	1	0.11	0.11	ppb	35.14	3600	
118	Sn	115	1	0.17	0.17	ppb	8.00	3600	
121	Sb	115	1	0.03	0.03	ppb	5.74	3600	
137	Ba	115	1	29.11	29.11	ppb	1.67	3600	
205	Tl	165	1	0.23	0.23	ppb	0.34	3600	
208	Pb	165	1	8.07	8.07	ppb	0.18	3600	
232	Th	165	1	10.26	10.26	ppb	0.63	1000	
238	U	165	1	1.72	1.72	ppb	0.46	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	462267	0.43	619221	74.7	30 - 120	
45	Sc	1	2767876	0.22	2917438	94.9	30 - 120	
72	Ge	1	1682191	0.25	1732493	97.1	30 - 120	
115	In	1	4588324	1.46	4820582	95.2	30 - 120	
165	Ho	1	8741155	0.35	9792536	89.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\090SMPL.D\090SMPL.D#		
Date Acquired:	Nov 1 2011 10:18 pm		
Acq. Method:	NormISIS.M	**QC Summary:**	
Operator:	TEL	**Analytes:**	**Pass**
Sample Name:	280-21683-a-32-a	**ISTD:**	**Pass**
Misc Info:			
Vial Number:	3105		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 01 2011 06:09 pm		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.55	0.55	ppb	11.66	3600	
51	V	72	1	23.90	23.90	ppb	2.20	3600	
52	Cr	72	1	14.40	14.40	ppb	2.34	3600	
55	Mn	72	1	334.20	334.20	ppb	2.80	18000	
59	Co	72	1	7.51	7.51	ppb	1.05	3600	
60	Ni	72	1	14.10	14.10	ppb	0.70	3600	
63	Cu	72	1	9.26	9.26	ppb	1.65	3600	
66	Zn	72	1	28.56	28.56	ppb	1.45	3600	
75	As	72	1	7.53	7.53	ppb	1.16	3600	
78	Se	72	1	1.89	1.89	ppb	10.74	3600	
95	Mo	72	1	0.50	0.50	ppb	4.48	3600	
107	Ag	115	1	0.03	0.03	ppb	12.34	3600	
111	Cd	115	1	0.13	0.13	ppb	14.05	3600	
118	Sn	115	1	0.16	0.16	ppb	12.14	3600	
121	Sb	115	1	0.03	0.03	ppb	4.75	3600	
137	Ba	115	1	23.41	23.41	ppb	1.14	3600	
205	Tl	165	1	0.23	0.23	ppb	1.55	3600	
208	Pb	165	1	12.23	12.23	ppb	0.83	3600	
232	Th	165	1	13.37	13.37	ppb	1.16	1000	
238	U	165	1	2.26	2.26	ppb	0.75	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	462108	0.78	619221	74.6	30 - 120	
45	Sc	1	2760070	1.30	2917438	94.6	30 - 120	
72	Ge	1	1705341	0.96	1732493	98.4	30 - 120	
115	In	1	4550519	0.97	4820582	94.4	30 - 120	
165	Ho	1	8725594	0.57	9792536	89.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\091_CCV.D\091_CCV.D#
Date Acquired:	Nov 1 2011 10:21 pm
Operator:	TEL
Sample Name:	CCV-1103570
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	56.68	ppb	1.11	50	113.4	90 - 110	Fail
51	V	72	1	49.91	ppb	0.93	50	99.8	90 - 110	
52	Cr	72	1	48.30	ppb	0.84	50	96.6	90 - 110	
55	Mn	72	1	47.93	ppb	1.75	50	95.9	90 - 110	
59	Co	72	1	48.86	ppb	0.48	50	97.7	90 - 110	
60	Ni	72	1	47.57	ppb	0.92	50	95.1	90 - 110	
63	Cu	72	1	49.70	ppb	0.71	50	99.4	90 - 110	
66	Zn	72	1	50.60	ppb	0.61	50	101.2	90 - 110	
75	As	72	1	52.65	ppb	0.48	50	105.3	90 - 110	
78	Se	72	1	50.63	ppb	1.10	50	101.3	90 - 110	
95	Mo	72	1	49.34	ppb	1.20	50	98.7	90 - 110	
107	Ag	115	1	51.28	ppb	1.01	50	102.6	90 - 110	
111	Cd	115	1	50.56	ppb	0.95	50	101.1	90 - 110	
118	Sn	115	1	48.01	ppb	0.81	50	96.0	90 - 110	
121	Sb	115	1	51.42	ppb	0.29	50	102.8	90 - 110	
137	Ba	115	1	51.26	ppb	0.26	50	102.5	90 - 110	
205	Tl	165	1	49.52	ppb	1.20	50	99.0	90 - 110	
208	Pb	165	1	47.65	ppb	1.39	50	95.3	90 - 110	
232	Th	165	1	48.07	ppb	0.97	50	96.1	90 - 110	
238	U	165	1	46.45	ppb	0.78	50	92.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	462972	0.52	619221	74.8	30 - 120	
45	Sc	1	2725724	1.99	2917438	93.4	30 - 120	
72	Ge	1	1691751	0.54	1732493	97.6	30 - 120	
115	In	1	4579823	0.85	4820582	95.0	30 - 120	
165	Ho	1	8747082	1.10	9792536	89.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\092_CCB.D\092_CCB.D#
Date Acquired: Nov 1 2011 10:24 pm
Operator: TEL
Sample Name: CCB-1103571
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.011	ppb	231.14	1.00	
51	V	72	1	-0.020	ppb	107.14	1.00	
52	Cr	72	1	-0.018	ppb	56.40	1.00	
55	Mn	72	1	0.035	ppb	22.41	1.00	
59	Co	72	1	0.008	ppb	14.93	1.00	
60	Ni	72	1	-0.067	ppb	17.01	1.00	
63	Cu	72	1	0.027	ppb	17.34	1.00	
66	Zn	72	1	0.083	ppb	5.28	1.00	
75	As	72	1	0.027	ppb	19.78	1.00	
78	Se	72	1	0.130	ppb	138.03	1.00	
95	Mo	72	1	0.007	ppb	110.36	1.00	
107	Ag	115	1	0.007	ppb	28.74	1.00	
111	Cd	115	1	0.004	ppb	136.85	1.00	
118	Sn	115	1	0.027	ppb	18.61	1.00	
121	Sb	115	1	0.014	ppb	24.14	1.00	
137	Ba	115	1	0.010	ppb	20.60	1.00	
205	Tl	165	1	0.021	ppb	5.85	1.00	
208	Pb	165	1	0.011	ppb	11.93	1.00	
232	Th	165	1	0.029	ppb	6.12	1.00	
238	U	165	1	0.009	ppb	0.26	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	460609	0.50	619221	74.4	30 - 120	
45	Sc	1	2718461	0.72	2917438	93.2	30 - 120	
72	Ge	1	1684937	1.73	1732493	97.3	30 - 120	
115	In	1	4586486	1.36	4820582	95.1	30 - 120	
165	Ho	1	8680184	1.07	9792536	88.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\093WASH.D\093WASH.D#
Date Acquired: Nov 1 2011 10:27 pm
Operator: TEL
Sample Name: LLICV-1103572
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.228 ppb	2.84	1.30	
51	V	72	1	4.904 ppb	1.60	6.50	
52	Cr	72	1	2.130 ppb	1.92	2.60	
55	Mn	72	1	1.147 ppb	3.41	1.30	
59	Co	72	1	1.040 ppb	0.67	1.30	
60	Ni	72	1	2.089 ppb	2.45	2.60	
63	Cu	72	1	2.129 ppb	1.14	2.60	
66	Zn	72	1	10.560 ppb	1.67	13.00	
75	As	72	1	5.436 ppb	0.84	6.50	
78	Se	72	1	5.248 ppb	4.99	6.50	
95	Mo	72	1	2.062 ppb	3.12	2.60	
107	Ag	115	1	4.957 ppb	1.25	6.50	
111	Cd	115	1	1.056 ppb	2.79	1.30	
118	Sn	115	1	9.870 ppb	1.17	13.00	
121	Sb	115	1	2.140 ppb	2.00	2.60	
137	Ba	115	1	1.123 ppb	4.91	1.30	
205	Tl	165	1	1.045 ppb	0.73	1.30	
208	Pb	165	1	1.026 ppb	1.75	1.30	
232	Th	165	1	1.965 ppb	1.42	2.60	
238	U	165	1	0.973 ppb	0.78	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	461731	0.81	619221	74.6	30 - 120	
45	Sc	1	2729247	1.95	2917438	93.5	30 - 120	
72	Ge	1	1678967	0.65	1732493	96.9	30 - 120	
115	In	1	4632365	0.44	4820582	96.1	30 - 120	
165	Ho	1	8763735	0.51	9792536	89.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\094SMPL.D\094SMPL.D#
Date Acquired:	Nov 1 2011 10:29 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-33-a
Misc Info:	
Vial Number:	3106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.36	0.36	ppb	12.06	3600	
51	V	72	1	15.94	15.94	ppb	1.01	3600	
52	Cr	72	1	10.70	10.70	ppb	0.46	3600	
55	Mn	72	1	180.30	180.30	ppb	1.17	18000	
59	Co	72	1	4.13	4.13	ppb	2.19	3600	
60	Ni	72	1	6.98	6.98	ppb	0.22	3600	
63	Cu	72	1	7.02	7.02	ppb	0.55	3600	
66	Zn	72	1	21.05	21.05	ppb	0.73	3600	
75	As	72	1	5.18	5.18	ppb	0.22	3600	
78	Se	72	1	1.54	1.54	ppb	6.58	3600	
95	Mo	72	1	0.32	0.32	ppb	2.29	3600	
107	Ag	115	1	0.03	0.03	ppb	6.71	3600	
111	Cd	115	1	0.09	0.09	ppb	21.16	3600	
118	Sn	115	1	0.16	0.16	ppb	1.79	3600	
121	Sb	115	1	0.03	0.03	ppb	8.56	3600	
137	Ba	115	1	12.94	12.94	ppb	1.62	3600	
205	Tl	165	1	0.14	0.14	ppb	4.44	3600	
208	Pb	165	1	7.50	7.50	ppb	0.33	3600	
232	Th	165	1	10.94	10.94	ppb	0.50	1000	
238	U	165	1	1.59	1.59	ppb	0.17	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	465072	0.49	619221	75.1	30 - 120	
45	Sc	1	2745224	1.10	2917438	94.1	30 - 120	
72	Ge	1	1690357	1.07	1732493	97.6	30 - 120	
115	In	1	4582861	1.16	4820582	95.1	30 - 120	
165	Ho	1	8734957	0.66	9792536	89.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\095SMPL.D\095SMPL.D#
Date Acquired:	Nov 1 2011 10:32 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-34-a
Misc Info:	
Vial Number:	3107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.53	0.53	ppb	9.24	3600	
51	V	72	1	19.38	19.38	ppb	1.28	3600	
52	Cr	72	1	12.86	12.86	ppb	1.69	3600	
55	Mn	72	1	318.50	318.50	ppb	1.80	18000	
59	Co	72	1	5.56	5.56	ppb	1.23	3600	
60	Ni	72	1	9.13	9.13	ppb	0.71	3600	
63	Cu	72	1	6.18	6.18	ppb	0.67	3600	
66	Zn	72	1	23.24	23.24	ppb	1.21	3600	
75	As	72	1	6.29	6.29	ppb	1.15	3600	
78	Se	72	1	1.69	1.69	ppb	6.98	3600	
95	Mo	72	1	0.41	0.41	ppb	4.05	3600	
107	Ag	115	1	0.02	0.02	ppb	17.33	3600	
111	Cd	115	1	0.10	0.10	ppb	17.47	3600	
118	Sn	115	1	0.09	0.09	ppb	11.62	3600	
121	Sb	115	1	0.02	0.02	ppb	6.50	3600	
137	Ba	115	1	18.17	18.17	ppb	0.59	3600	
205	Tl	165	1	0.16	0.16	ppb	1.68	3600	
208	Pb	165	1	7.75	7.75	ppb	0.40	3600	
232	Th	165	1	12.92	12.92	ppb	0.67	1000	
238	U	165	1	2.09	2.09	ppb	1.05	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	465658	0.43	619221	75.2	30 - 120	
45	Sc	1	2716443	1.99	2917438	93.1	30 - 120	
72	Ge	1	1687840	0.14	1732493	97.4	30 - 120	
115	In	1	4611996	1.62	4820582	95.7	30 - 120	
165	Ho	1	8694119	0.20	9792536	88.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\096SMPL.D\096SMPL.D#
Date Acquired:	Nov 1 2011 10:35 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-35-a
Misc Info:	
Vial Number:	3108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.39	0.39	ppb	18.27	3600	
51	V	72	1	17.47	17.47	ppb	0.63	3600	
52	Cr	72	1	10.96	10.96	ppb	2.06	3600	
55	Mn	72	1	245.10	245.10	ppb	2.01	18000	
59	Co	72	1	3.93	3.93	ppb	3.07	3600	
60	Ni	72	1	6.59	6.59	ppb	0.49	3600	
63	Cu	72	1	8.15	8.15	ppb	1.24	3600	
66	Zn	72	1	21.17	21.17	ppb	1.67	3600	
75	As	72	1	5.43	5.43	ppb	1.72	3600	
78	Se	72	1	1.53	1.53	ppb	26.96	3600	
95	Mo	72	1	0.42	0.42	ppb	4.87	3600	
107	Ag	115	1	0.06	0.06	ppb	10.84	3600	
111	Cd	115	1	0.11	0.11	ppb	15.47	3600	
118	Sn	115	1	0.10	0.10	ppb	3.78	3600	
121	Sb	115	1	0.03	0.03	ppb	5.22	3600	
137	Ba	115	1	19.41	19.41	ppb	1.45	3600	
205	Tl	165	1	0.15	0.15	ppb	0.48	3600	
208	Pb	165	1	10.97	10.97	ppb	1.50	3600	
232	Th	165	1	8.95	8.95	ppb	2.66	1000	
238	U	165	1	1.56	1.56	ppb	2.42	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	460200	0.65	619221	74.3	30 - 120	
45	Sc	1	2769864	0.99	2917438	94.9	30 - 120	
72	Ge	1	1686651	0.28	1732493	97.4	30 - 120	
115	In	1	4513582	1.64	4820582	93.6	30 - 120	
165	Ho	1	8801794	0.61	9792536	89.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\097SMPL.D\097SMPL.D#
Date Acquired: Nov 1 2011 10:38 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-36-a
Misc Info:
Vial Number: 3109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.50	0.50	ppb	35.85	3600	
51	V	72	1	17.73	17.73	ppb	1.56	3600	
52	Cr	72	1	11.04	11.04	ppb	1.04	3600	
55	Mn	72	1	415.70	415.70	ppb	2.41	18000	
59	Co	72	1	5.84	5.84	ppb	2.33	3600	
60	Ni	72	1	9.03	9.03	ppb	0.70	3600	
63	Cu	72	1	8.30	8.30	ppb	1.41	3600	
66	Zn	72	1	24.75	24.75	ppb	1.24	3600	
75	As	72	1	6.21	6.21	ppb	2.69	3600	
78	Se	72	1	1.01	1.01	ppb	39.54	3600	
95	Mo	72	1	0.42	0.42	ppb	3.22	3600	
107	Ag	115	1	0.03	0.03	ppb	2.71	3600	
111	Cd	115	1	0.10	0.10	ppb	22.26	3600	
118	Sn	115	1	0.11	0.11	ppb	4.26	3600	
121	Sb	115	1	0.03	0.03	ppb	3.20	3600	
137	Ba	115	1	17.79	17.79	ppb	0.22	3600	
205	Tl	165	1	0.20	0.20	ppb	1.43	3600	
208	Pb	165	1	8.75	8.75	ppb	1.50	3600	
232	Th	165	1	20.01	20.01	ppb	1.02	1000	
238	U	165	1	1.50	1.50	ppb	1.54	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	461354	0.59	619221	74.5	30 - 120	
45	Sc	1	2737552	0.76	2917438	93.8	30 - 120	
72	Ge	1	1688344	1.11	1732493	97.5	30 - 120	
115	In	1	4584977	0.91	4820582	95.1	30 - 120	
165	Ho	1	8650828	1.17	9792536	88.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\098SMPL.D\098SMPL.D#
Date Acquired:	Nov 1 2011 10:41 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-37-a
Misc Info:	
Vial Number:	3110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.35	0.35	ppb	15.62	3600	
51	V	72	1	20.50	20.50	ppb	0.83	3600	
52	Cr	72	1	10.11	10.11	ppb	0.53	3600	
55	Mn	72	1	226.10	226.10	ppb	0.26	18000	
59	Co	72	1	2.88	2.88	ppb	1.24	3600	
60	Ni	72	1	5.71	5.71	ppb	0.43	3600	
63	Cu	72	1	7.07	7.07	ppb	0.59	3600	
66	Zn	72	1	25.04	25.04	ppb	0.29	3600	
75	As	72	1	8.81	8.81	ppb	1.17	3600	
78	Se	72	1	1.42	1.42	ppb	19.71	3600	
95	Mo	72	1	0.69	0.69	ppb	1.12	3600	
107	Ag	115	1	0.04	0.04	ppb	21.61	3600	
111	Cd	115	1	0.09	0.09	ppb	32.48	3600	
118	Sn	115	1	0.09	0.09	ppb	10.77	3600	
121	Sb	115	1	0.04	0.04	ppb	6.13	3600	
137	Ba	115	1	18.60	18.60	ppb	0.94	3600	
205	Tl	165	1	0.14	0.14	ppb	3.20	3600	
208	Pb	165	1	10.72	10.72	ppb	1.39	3600	
232	Th	165	1	9.04	9.04	ppb	2.48	1000	
238	U	165	1	1.57	1.57	ppb	1.94	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457744	0.87	619221	73.9	30 - 120	
45	Sc	1	2701294	0.83	2917438	92.6	30 - 120	
72	Ge	1	1671533	1.25	1732493	96.5	30 - 120	
115	In	1	4557766	1.19	4820582	94.5	30 - 120	
165	Ho	1	8820084	0.82	9792536	90.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\099SMPL.D\099SMPL.D#
Date Acquired: Nov 1 2011 10:44 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-b-38-a
Misc Info:
Vial Number: 3111
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.41	0.41	ppb	4.56	3600	
51	V	72	1	18.75	18.75	ppb	0.26	3600	
52	Cr	72	1	10.92	10.92	ppb	1.17	3600	
55	Mn	72	1	222.80	222.80	ppb	0.43	18000	
59	Co	72	1	3.40	3.40	ppb	1.32	3600	
60	Ni	72	1	6.66	6.66	ppb	3.43	3600	
63	Cu	72	1	5.04	5.04	ppb	3.34	3600	
66	Zn	72	1	18.49	18.49	ppb	1.80	3600	
75	As	72	1	5.16	5.16	ppb	1.04	3600	
78	Se	72	1	1.88	1.88	ppb	22.61	3600	
95	Mo	72	1	0.42	0.42	ppb	6.30	3600	
107	Ag	115	1	0.03	0.03	ppb	5.16	3600	
111	Cd	115	1	0.11	0.11	ppb	15.83	3600	
118	Sn	115	1	0.14	0.14	ppb	9.92	3600	
121	Sb	115	1	0.03	0.03	ppb	6.43	3600	
137	Ba	115	1	14.85	14.85	ppb	1.44	3600	
205	Tl	165	1	0.13	0.13	ppb	0.79	3600	
208	Pb	165	1	8.25	8.25	ppb	0.71	3600	
232	Th	165	1	14.37	14.37	ppb	0.85	1000	
238	U	165	1	2.29	2.29	ppb	0.37	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	456373	0.73	619221	73.7	30 - 120	
45	Sc	1	2697052	0.73	2917438	92.4	30 - 120	
72	Ge	1	1661955	1.77	1732493	95.9	30 - 120	
115	In	1	4497811	0.38	4820582	93.3	30 - 120	
165	Ho	1	8676784	0.15	9792536	88.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\100SMPL.D\100SMPL.D#
Date Acquired: Nov 1 2011 10:47 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-39-a
Misc Info:
Vial Number: 3112
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.32	0.32	ppb	19.71	3600	
51 V	72	1	18.90	18.90	ppb	1.73	3600	
52 Cr	72	1	8.78	8.78	ppb	2.25	3600	
55 Mn	72	1	139.70	139.70	ppb	1.37	18000	
59 Co	72	1	2.02	2.02	ppb	1.13	3600	
60 Ni	72	1	5.17	5.17	ppb	1.79	3600	
63 Cu	72	1	4.32	4.32	ppb	1.85	3600	
66 Zn	72	1	19.50	19.50	ppb	0.56	3600	
75 As	72	1	4.81	4.81	ppb	2.04	3600	
78 Se	72	1	1.16	1.16	ppb	11.51	3600	
95 Mo	72	1	0.54	0.54	ppb	2.88	3600	
107 Ag	115	1	0.04	0.04	ppb	0.10	3600	
111 Cd	115	1	0.11	0.11	ppb	11.88	3600	
118 Sn	115	1	0.10	0.10	ppb	4.49	3600	
121 Sb	115	1	0.03	0.03	ppb	8.00	3600	
137 Ba	115	1	10.95	10.95	ppb	1.60	3600	
205 Tl	165	1	0.16	0.16	ppb	3.90	3600	
208 Pb	165	1	14.75	14.75	ppb	1.69	3600	
232 Th	165	1	8.26	8.26	ppb	1.52	1000	
238 U	165	1	1.25	1.25	ppb	1.16	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	456344	1.13	619221	73.7	30 - 120	
45 Sc	1	2713332	1.23	2917438	93.0	30 - 120	
72 Ge	1	1664078	1.42	1732493	96.1	30 - 120	
115 In	1	4550445	0.60	4820582	94.4	30 - 120	
165 Ho	1	8738593	1.40	9792536	89.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\101SMPL.D\101SMPL.D#
Date Acquired:	Nov 1 2011 10:50 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-40-a
Misc Info:	
Vial Number:	3201
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.41	0.41	ppb	35.99	3600	
51	V	72	1	14.21	14.21	ppb	2.37	3600	
52	Cr	72	1	8.59	8.59	ppb	1.34	3600	
55	Mn	72	1	258.50	258.50	ppb	0.73	18000	
59	Co	72	1	3.80	3.80	ppb	0.77	3600	
60	Ni	72	1	6.08	6.08	ppb	1.27	3600	
63	Cu	72	1	6.24	6.24	ppb	0.99	3600	
66	Zn	72	1	22.36	22.36	ppb	1.11	3600	
75	As	72	1	4.33	4.33	ppb	0.86	3600	
78	Se	72	1	1.18	1.18	ppb	19.31	3600	
95	Mo	72	1	0.40	0.40	ppb	1.62	3600	
107	Ag	115	1	0.03	0.03	ppb	11.76	3600	
111	Cd	115	1	0.10	0.10	ppb	6.81	3600	
118	Sn	115	1	0.09	0.09	ppb	15.48	3600	
121	Sb	115	1	0.03	0.03	ppb	7.37	3600	
137	Ba	115	1	13.91	13.91	ppb	1.47	3600	
205	Tl	165	1	0.14	0.14	ppb	1.51	3600	
208	Pb	165	1	8.77	8.77	ppb	1.01	3600	
232	Th	165	1	5.29	5.29	ppb	1.20	1000	
238	U	165	1	1.07	1.07	ppb	1.64	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	459740	0.45	619221	74.2	30 - 120	
45	Sc	1	2707752	0.30	2917438	92.8	30 - 120	
72	Ge	1	1667531	0.91	1732493	96.3	30 - 120	
115	In	1	4544058	2.20	4820582	94.3	30 - 120	
165	Ho	1	8697345	0.54	9792536	88.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\102_CCV.D\102_CCV.D#
Date Acquired: Nov 1 2011 10:53 pm
Operator: TEL
Sample Name: CCV-1103570
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	57.16	ppb	2.12	50	114.3	90 - 110	Fail
51	V	72	1	50.70	ppb	0.83	50	101.4	90 - 110	
52	Cr	72	1	49.14	ppb	1.37	50	98.3	90 - 110	
55	Mn	72	1	48.41	ppb	0.35	50	96.8	90 - 110	
59	Co	72	1	49.17	ppb	0.71	50	98.3	90 - 110	
60	Ni	72	1	47.65	ppb	0.49	50	95.3	90 - 110	
63	Cu	72	1	49.12	ppb	1.59	50	98.2	90 - 110	
66	Zn	72	1	50.87	ppb	0.15	50	101.7	90 - 110	
75	As	72	1	53.14	ppb	0.57	50	106.3	90 - 110	
78	Se	72	1	50.79	ppb	0.37	50	101.6	90 - 110	
95	Mo	72	1	49.08	ppb	0.72	50	98.2	90 - 110	
107	Ag	115	1	50.28	ppb	1.65	50	100.6	90 - 110	
111	Cd	115	1	50.16	ppb	0.17	50	100.3	90 - 110	
118	Sn	115	1	47.94	ppb	1.35	50	95.9	90 - 110	
121	Sb	115	1	51.00	ppb	1.39	50	102.0	90 - 110	
137	Ba	115	1	50.79	ppb	1.27	50	101.6	90 - 110	
205	Tl	165	1	49.89	ppb	1.83	50	99.8	90 - 110	
208	Pb	165	1	47.65	ppb	0.46	50	95.3	90 - 110	
232	Th	165	1	48.41	ppb	0.46	50	96.8	90 - 110	
238	U	165	1	46.95	ppb	1.93	50	93.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	453431	0.62	619221	73.2	30 - 120	
45	Sc	1	2695782	0.74	2917438	92.4	30 - 120	
72	Ge	1	1671204	0.31	1732493	96.5	30 - 120	
115	In	1	4604572	0.58	4820582	95.5	30 - 120	
165	Ho	1	8638334	0.32	9792536	88.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\103_CCB.D\103_CCB.D#
Date Acquired:	Nov 1 2011 10:56 pm
Operator:	TEL
Sample Name:	CCB-1103571
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.027	ppb	113.57	1.00	
51	V	72	1	0.006	ppb	126.07	1.00	
52	Cr	72	1	-0.010	ppb	70.72	1.00	
55	Mn	72	1	0.037	ppb	5.49	1.00	
59	Co	72	1	0.010	ppb	15.74	1.00	
60	Ni	72	1	-0.056	ppb	10.76	1.00	
63	Cu	72	1	0.025	ppb	27.12	1.00	
66	Zn	72	1	0.090	ppb	3.15	1.00	
75	As	72	1	0.029	ppb	27.36	1.00	
78	Se	72	1	0.146	ppb	108.10	1.00	
95	Mo	72	1	0.007	ppb	48.80	1.00	
107	Ag	115	1	0.009	ppb	26.25	1.00	
111	Cd	115	1	0.008	ppb	64.42	1.00	
118	Sn	115	1	0.036	ppb	29.45	1.00	
121	Sb	115	1	0.014	ppb	11.00	1.00	
137	Ba	115	1	0.009	ppb	36.24	1.00	
205	Tl	165	1	0.020	ppb	6.99	1.00	
208	Pb	165	1	0.011	ppb	6.28	1.00	
232	Th	165	1	0.031	ppb	12.07	1.00	
238	U	165	1	0.009	ppb	3.73	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	449288	0.36	619221	72.6	30 - 120	
45	Sc	1	2691652	2.75	2917438	92.3	30 - 120	
72	Ge	1	1658578	0.43	1732493	95.7	30 - 120	
115	In	1	4585441	0.88	4820582	95.1	30 - 120	
165	Ho	1	8586331	1.26	9792536	87.7	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\104WASH.D\104WASH.D#
Date Acquired: Nov 1 2011 10:59 pm
Operator: TEL
Sample Name: LLICV-1103572
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.140 ppb	14.81	1.30	
51	V	72	1	4.839 ppb	1.07	6.50	
52	Cr	72	1	2.073 ppb	1.69	2.60	
55	Mn	72	1	1.157 ppb	2.60	1.30	
59	Co	72	1	1.034 ppb	1.34	1.30	
60	Ni	72	1	2.060 ppb	2.60	2.60	
63	Cu	72	1	2.106 ppb	1.82	2.60	
66	Zn	72	1	10.670 ppb	0.20	13.00	
75	As	72	1	5.407 ppb	2.05	6.50	
78	Se	72	1	4.977 ppb	10.70	6.50	
95	Mo	72	1	2.107 ppb	1.97	2.60	
107	Ag	115	1	4.968 ppb	0.39	6.50	
111	Cd	115	1	1.062 ppb	2.24	1.30	
118	Sn	115	1	9.759 ppb	0.68	13.00	
121	Sb	115	1	2.134 ppb	0.69	2.60	
137	Ba	115	1	1.123 ppb	3.00	1.30	
205	Tl	165	1	1.050 ppb	0.67	1.30	
208	Pb	165	1	1.018 ppb	0.46	1.30	
232	Th	165	1	1.965 ppb	0.68	2.60	
238	U	165	1	0.975 ppb	0.24	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	453019	0.45	619221	73.2	30 - 120	
45	Sc	1	2696021	1.59	2917438	92.4	30 - 120	
72	Ge	1	1665161	0.79	1732493	96.1	30 - 120	
115	In	1	4585965	1.04	4820582	95.1	30 - 120	
165	Ho	1	8657637	0.80	9792536	88.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\105_BLK.D\105_BLK.D#
Date Acquired:	Nov 1 2011 11:02 pm
Operator:	TEL
Sample Name:	mb 280-91958/1-a
Misc Info:	BLANK 91958 Soil DoD4/6020A
Vial Number:	3202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.022	ppb	81.05	2.00	
51	V	72	1	-0.023	ppb	87.72	2.00	
52	Cr	72	1	0.068	ppb	8.32	2.00	
55	Mn	72	1	0.094	ppb	4.57	2.00	
59	Co	72	1	0.007	ppb	20.74	2.00	
60	Ni	72	1	-0.029	ppb	37.46	2.00	
63	Cu	72	1	0.109	ppb	5.91	2.00	
66	Zn	72	1	1.159	ppb	2.22	2.00	
75	As	72	1	0.022	ppb	32.37	2.00	
78	Se	72	1	0.110	ppb	200.00	2.00	
95	Mo	72	1	0.002	ppb	67.54	2.00	
107	Ag	115	1	0.005	ppb	17.08	2.00	
111	Cd	115	1	0.005	ppb	87.66	2.00	
118	Sn	115	1	0.230	ppb	6.67	2.00	
121	Sb	115	1	0.019	ppb	18.90	2.00	
137	Ba	115	1	0.110	ppb	8.59	2.00	
205	Tl	165	1	0.009	ppb	20.33	2.00	
208	Pb	165	1	0.025	ppb	2.53	2.00	
232	Th	165	1	0.019	ppb	9.20	2.00	
238	U	165	1	0.008	ppb	10.31	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	451231	0.25	619221	72.9	30 - 120	
45	Sc	1	2682271	0.89	2917438	91.9	30 - 120	
72	Ge	1	1670405	0.82	1732493	96.4	30 - 120	
115	In	1	4627805	1.02	4820582	96.0	30 - 120	
165	Ho	1	8613430	0.53	9792536	88.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\106_LCS.D\106_LCS.D#
Date Acquired:	Nov 1 2011 11:05 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-91958/2-a
Misc Info:	LCS
Vial Number:	3203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	46.07	1.66	40	115.2	80 - 120	
51	V	72	1	39.72	0.83	40	99.3	80 - 120	
52	Cr	72	1	39.43	0.94	40	98.6	80 - 120	
55	Mn	72	1	38.05	0.75	40	95.1	80 - 120	
59	Co	72	1	39.57	1.34	40	98.9	80 - 120	
60	Ni	72	1	38.68	1.41	40	96.7	80 - 120	
63	Cu	72	1	39.66	1.32	40	99.2	80 - 120	
66	Zn	72	1	40.35	1.21	40	100.9	80 - 120	
75	As	72	1	42.23	1.37	40	105.6	80 - 120	
78	Se	72	1	41.82	1.92	40	104.6	80 - 120	
95	Mo	72	1	39.82	2.07	40	99.6	80 - 120	
107	Ag	115	1	39.61	3.11	40	99.0	80 - 120	
111	Cd	115	1	39.87	1.91	40	99.7	80 - 120	
118	Sn	115	1	38.65	2.82	40	96.6	80 - 120	
121	Sb	115	1	40.81	2.45	40	102.0	80 - 120	
137	Ba	115	1	41.19	2.44	40	103.0	80 - 120	
205	Tl	165	1	39.29	0.58	40	98.2	80 - 120	
208	Pb	165	1	38.32	0.98	40	95.8	80 - 120	
232	Th	165	1	38.29	1.69	40	95.7	80 - 120	
238	U	165	1	37.88	0.41	40	94.7	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	449859	0.60	619221	72.6	30 - 120	
45	Sc	1	2679652	1.64	2917438	91.8	30 - 120	
72	Ge	1	1641037	1.87	1732493	94.7	30 - 120	
115	In	1	4536953	1.70	4820582	94.1	30 - 120	
165	Ho	1	8624691	0.43	9792536	88.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\107AREF.D\107AREF.D#
Date Acquired:	Nov 1 2011 11:07 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-41-a
Misc Info:	
Vial Number:	3204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.36	0.36	ppb	14.19	3600	
51	V	72	1	15.97	15.97	ppb	1.92	3600	
52	Cr	72	1	10.21	10.21	ppb	1.73	3600	
55	Mn	72	1	260.90	260.90	ppb	1.84	18000	
59	Co	72	1	3.87	3.87	ppb	1.14	3600	
60	Ni	72	1	6.07	6.07	ppb	1.70	3600	
63	Cu	72	1	6.53	6.53	ppb	1.45	3600	
66	Zn	72	1	20.47	20.47	ppb	0.90	3600	
75	As	72	1	5.94	5.94	ppb	1.24	3600	
78	Se	72	1	1.04	1.04	ppb	21.75	3600	
95	Mo	72	1	0.50	0.50	ppb	6.64	3600	
107	Ag	115	1	0.04	0.04	ppb	14.50	3600	
111	Cd	115	1	0.08	0.08	ppb	25.18	3600	
118	Sn	115	1	0.14	0.14	ppb	15.61	3600	
121	Sb	115	1	0.05	0.05	ppb	7.53	3600	
137	Ba	115	1	13.15	13.15	ppb	1.60	3600	
205	Tl	165	1	0.17	0.17	ppb	4.14	3600	
208	Pb	165	1	9.80	9.80	ppb	1.20	3600	
232	Th	165	1	6.09	6.09	ppb	0.38	1000	
238	U	165	1	1.10	1.10	ppb	1.72	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	448908	0.54	619221	72.5	30 - 120	
45	Sc	1	2701809	1.10	2917438	92.6	30 - 120	
72	Ge	1	1670178	0.82	1732493	96.4	30 - 120	
115	In	1	4550820	1.13	4820582	94.4	30 - 120	
165	Ho	1	8748417	1.23	9792536	89.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\108SDIL.D\108SDIL.D#
Date Acquired:	Nov 1 2011 11:10 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-41-a SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	3205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110111.B\107AREF.D\107AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.09	ppb	17.60	0.07	121.4	90 - 110	
51	V	72	1	3.26	ppb	0.94	3.19	102.0	90 - 110	
52	Cr	72	1	2.05	ppb	1.31	2.04	100.6	90 - 110	
55	Mn	72	1	54.40	ppb	2.81	52.18	104.3	90 - 110	
59	Co	72	1	0.79	ppb	0.53	0.77	102.0	90 - 110	
60	Ni	72	1	1.21	ppb	5.47	1.21	99.8	90 - 110	
63	Cu	72	1	1.37	ppb	1.97	1.31	104.8	90 - 110	
66	Zn	72	1	4.40	ppb	0.53	4.09	107.5	90 - 110	
75	As	72	1	1.24	ppb	3.25	1.19	104.1	90 - 110	
78	Se	72	1	0.41	ppb	49.58	0.21	198.3	90 - 110	
95	Mo	72	1	0.10	ppb	2.76	0.10	101.1	90 - 110	
107	Ag	115	1	0.01	ppb	22.35	0.01	106.7	90 - 110	
111	Cd	115	1	0.02	ppb	33.77	0.02	126.1	90 - 110	
118	Sn	115	1	0.07	ppb	9.21	0.03	234.7	90 - 110	
121	Sb	115	1	0.01	ppb	7.75	0.01	155.9	90 - 110	
137	Ba	115	1	2.67	ppb	2.59	2.63	101.7	90 - 110	
205	Tl	165	1	0.04	ppb	2.64	0.03	108.0	90 - 110	
208	Pb	165	1	2.05	ppb	0.27	1.96	104.4	90 - 110	
232	Th	165	1	1.27	ppb	1.02	1.22	104.0	90 - 110	
238	U	165	1	0.23	ppb	1.28	0.22	104.3	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	453841	0.22	619221	73.3	30 - 120	
45	Sc	1	2693075	0.99	2917438	92.3	30 - 120	
72	Ge	1	1672960	0.92	1732493	96.6	30 - 120	
115	In	1	4573105	0.89	4820582	94.9	30 - 120	
165	Ho	1	8576435	0.87	9792536	87.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\109PDS.D\109PDS.D#
Date Acquired:	Nov 1 2011 11:13 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-41-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00
Spike Ref. File:	---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	222.50	0.36	ppb	1.32	200	111.1	75 - 125	
51 V	72	1	199.30	15.97	ppb	1.22	200	92.3	75 - 125	
52 Cr	72	1	191.20	10.21	ppb	1.10	200	91.0	75 - 125	
55 Mn	72	1	425.00	260.90	ppb	1.02	200	92.2	75 - 125	
59 Co	72	1	184.90	3.87	ppb	0.30	200	90.7	75 - 125	
60 Ni	72	1	194.60	6.07	ppb	1.36	200	94.4	75 - 125	
63 Cu	72	1	191.40	6.53	ppb	0.30	200	92.7	75 - 125	
66 Zn	72	1	210.80	20.47	ppb	0.85	200	95.6	75 - 125	
75 As	72	1	209.20	5.94	ppb	0.52	200	101.6	75 - 125	
78 Se	72	1	194.20	1.04	ppb	0.62	200	96.6	75 - 125	
95 Mo	72	1	196.90	0.50	ppb	0.54	200	98.2	75 - 125	
107 Ag	115	1	47.99	0.04	ppb	1.12	50	95.9	75 - 125	
111 Cd	115	1	194.80	0.08	ppb	0.92	200	97.4	75 - 125	
118 Sn	115	1	190.70	0.14	ppb	1.08	200	95.3	75 - 125	
121 Sb	115	1	203.20	0.05	ppb	1.69	200	101.6	75 - 125	
137 Ba	115	1	218.60	13.15	ppb	1.31	200	102.6	75 - 125	
205 Tl	165	1	182.30	0.17	ppb	1.69	200	91.1	75 - 125	
208 Pb	165	1	190.10	9.80	ppb	0.86	200	90.6	75 - 125	
232 Th	165	1	5.90	6.09	ppb	1.24	200	2.9	75 - 125	
238 U	165	1	177.60	1.10	ppb	2.35	200	88.3	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	448680	0.61	619221	72.5	30 - 120	
45 Sc	1	2643415	0.79	2917438	90.6	30 - 120	
72 Ge	1	1617349	0.45	1732493	93.4	30 - 120	
115 In	1	4453143	0.60	4820582	92.4	30 - 120	
165 Ho	1	8549381	1.05	9792536	87.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\110_MS.D\110_MS.D#
Date Acquired:	Nov 1 2011 11:16 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-41-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	3207
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	46.48	0.36	ppb	2.72	40	115.2	50 - 150	
51 V	72	1	56.80	15.97	ppb	1.00	40	101.5	50 - 150	
52 Cr	72	1	50.07	10.21	ppb	1.47	40	99.7	50 - 150	
55 Mn	72	1	337.10	260.90	ppb	1.28	40	112.0	50 - 150	
59 Co	72	1	44.11	3.87	ppb	2.33	40	100.6	50 - 150	
60 Ni	72	1	45.40	6.07	ppb	2.20	40	98.5	50 - 150	
63 Cu	72	1	44.77	6.53	ppb	2.47	40	96.2	50 - 150	
66 Zn	72	1	63.78	20.47	ppb	1.21	40	105.5	50 - 150	
75 As	72	1	46.21	5.94	ppb	1.25	40	100.6	50 - 150	
78 Se	72	1	42.15	1.04	ppb	1.99	40	102.7	50 - 150	
95 Mo	72	1	37.49	0.50	ppb	1.34	40	92.6	50 - 150	
107 Ag	115	1	39.08	0.04	ppb	1.68	40	97.6	50 - 150	
111 Cd	115	1	40.37	0.08	ppb	1.27	40	100.7	50 - 150	
118 Sn	115	1	14.38	0.14	ppb	0.73	40	35.8	50 - 150	
121 Sb	115	1	8.98	0.05	ppb	0.11	40	22.4	50 - 150	
137 Ba	115	1	56.58	13.15	ppb	0.72	40	106.5	50 - 150	
205 Tl	165	1	39.88	0.17	ppb	1.57	40	99.3	50 - 150	
208 Pb	165	1	48.22	9.80	ppb	0.56	40	96.8	50 - 150	
232 Th	165	1	45.93	6.09	ppb	0.77	40	99.7	50 - 150	
238 U	165	1	39.13	1.10	ppb	0.64	40	95.2	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	441085	1.41	619221	71.2	30 - 120	
45 Sc	1	2654688	1.05	2917438	91.0	30 - 120	
72 Ge	1	1636564	1.96	1732493	94.5	30 - 120	
115 In	1	4483246	0.97	4820582	93.0	30 - 120	
165 Ho	1	8604550	0.41	9792536	87.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\111_MSD.D\111_MSD.D#
Date Acquired: Nov 1 2011 11:19 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-b-41-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3208
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110111.B\110_MS.D\110_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	45.90	ppb	2.25	46.48	1.26	20	
51	V	72	1	54.39	ppb	2.18	56.80	4.33	20	
52	Cr	72	1	47.52	ppb	3.00	50.07	5.23	20	
55	Mn	72	1	479.20	ppb	0.62	337.10	34.82	20	
59	Co	72	1	42.12	ppb	2.45	44.11	4.62	20	
60	Ni	72	1	42.39	ppb	0.24	45.40	6.86	20	
63	Cu	72	1	42.91	ppb	0.69	44.77	4.24	20	
66	Zn	72	1	60.04	ppb	1.16	63.78	6.04	20	
75	As	72	1	44.54	ppb	1.78	46.21	3.68	20	
78	Se	72	1	38.83	ppb	1.82	42.15	8.20	20	
95	Mo	72	1	36.43	ppb	0.30	37.49	2.87	20	
107	Ag	115	1	37.88	ppb	1.88	39.08	3.12	20	
111	Cd	115	1	39.21	ppb	0.88	40.37	2.92	20	
118	Sn	115	1	14.42	ppb	1.89	14.38	0.28	20	
121	Sb	115	1	8.52	ppb	0.38	8.98	5.31	20	
137	Ba	115	1	72.13	ppb	0.94	56.58	24.16	20	
205	Tl	165	1	38.95	ppb	0.33	39.88	2.36	20	
208	Pb	165	1	46.65	ppb	0.45	48.22	3.31	20	
232	Th	165	1	43.62	ppb	0.16	45.93	5.16	20	
238	U	165	1	38.32	ppb	0.96	39.13	2.09	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	444042	0.26	619221	71.7	30 - 120	
45	Sc	1	2657738	1.21	2917438	91.1	30 - 120	
72	Ge	1	1640449	0.58	1732493	94.7	30 - 120	
115	In	1	4501350	0.55	4820582	93.4	30 - 120	
165	Ho	1	8525945	0.30	9792536	87.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\112SMPL.D\112SMPL.D#
Date Acquired:	Nov 1 2011 11:22 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-42-a
Misc Info:	
Vial Number:	3209
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.40	0.40	ppb	22.78	3600	
51	V	72	1	13.02	13.02	ppb	1.67	3600	
52	Cr	72	1	6.72	6.72	ppb	1.72	3600	
55	Mn	72	1	109.50	109.50	ppb	0.68	18000	
59	Co	72	1	2.44	2.44	ppb	1.93	3600	
60	Ni	72	1	4.35	4.35	ppb	1.09	3600	
63	Cu	72	1	5.72	5.72	ppb	1.76	3600	
66	Zn	72	1	25.97	25.97	ppb	0.77	3600	
75	As	72	1	4.02	4.02	ppb	2.00	3600	
78	Se	72	1	0.75	0.75	ppb	23.51	3600	
95	Mo	72	1	0.46	0.46	ppb	1.46	3600	
107	Ag	115	1	0.05	0.05	ppb	5.47	3600	
111	Cd	115	1	0.11	0.11	ppb	15.74	3600	
118	Sn	115	1	0.08	0.08	ppb	3.92	3600	
121	Sb	115	1	0.04	0.04	ppb	4.23	3600	
137	Ba	115	1	8.98	8.98	ppb	0.25	3600	
205	Tl	165	1	0.14	0.14	ppb	2.64	3600	
208	Pb	165	1	11.28	11.28	ppb	0.69	3600	
232	Th	165	1	3.24	3.24	ppb	1.54	1000	
238	U	165	1	0.76	0.76	ppb	1.38	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	446265	0.57	619221	72.1	30 - 120	
45	Sc	1	2671742	1.30	2917438	91.6	30 - 120	
72	Ge	1	1652414	1.29	1732493	95.4	30 - 120	
115	In	1	4487414	0.27	4820582	93.1	30 - 120	
165	Ho	1	8630470	0.58	9792536	88.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\113SMPL.D\113SMPL.D#
Date Acquired:	Nov 1 2011 11:25 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-43-a
Misc Info:	
Vial Number:	3210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	31.14	3600	
51	V	72	1	10.83	10.83	ppb	1.87	3600	
52	Cr	72	1	4.92	4.92	ppb	1.00	3600	
55	Mn	72	1	138.90	138.90	ppb	1.14	18000	
59	Co	72	1	2.57	2.57	ppb	1.45	3600	
60	Ni	72	1	3.51	3.51	ppb	1.00	3600	
63	Cu	72	1	5.19	5.19	ppb	0.83	3600	
66	Zn	72	1	14.03	14.03	ppb	1.17	3600	
75	As	72	1	4.59	4.59	ppb	2.20	3600	
78	Se	72	1	0.58	0.58	ppb	31.94	3600	
95	Mo	72	1	0.35	0.35	ppb	6.28	3600	
107	Ag	115	1	0.02	0.02	ppb	7.28	3600	
111	Cd	115	1	0.09	0.09	ppb	3.20	3600	
118	Sn	115	1	0.07	0.07	ppb	13.11	3600	
121	Sb	115	1	0.03	0.03	ppb	10.05	3600	
137	Ba	115	1	7.27	7.27	ppb	1.53	3600	
205	Tl	165	1	0.10	0.10	ppb	2.91	3600	
208	Pb	165	1	5.17	5.17	ppb	0.64	3600	
232	Th	165	1	2.40	2.40	ppb	1.54	1000	
238	U	165	1	0.70	0.70	ppb	0.60	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	445810	0.64	619221	72.0	30 - 120	
45	Sc	1	2704585	1.79	2917438	92.7	30 - 120	
72	Ge	1	1670958	0.99	1732493	96.4	30 - 120	
115	In	1	4528159	0.61	4820582	93.9	30 - 120	
165	Ho	1	8687818	0.66	9792536	88.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\114_CCV.D\114_CCV.D#
Date Acquired: Nov 1 2011 11:28 pm
Operator: TEL
Sample Name: CCV-1103570
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	58.59	ppb	3.09	50	117.2	90 - 110	Fail
51	V	72	1	50.16	ppb	0.82	50	100.3	90 - 110	
52	Cr	72	1	48.75	ppb	0.79	50	97.5	90 - 110	
55	Mn	72	1	48.90	ppb	0.85	50	97.8	90 - 110	
59	Co	72	1	49.49	ppb	0.50	50	99.0	90 - 110	
60	Ni	72	1	47.91	ppb	1.30	50	95.8	90 - 110	
63	Cu	72	1	49.63	ppb	0.80	50	99.3	90 - 110	
66	Zn	72	1	51.06	ppb	0.40	50	102.1	90 - 110	
75	As	72	1	53.21	ppb	0.94	50	106.4	90 - 110	
78	Se	72	1	50.08	ppb	3.95	50	100.2	90 - 110	
95	Mo	72	1	49.49	ppb	0.76	50	99.0	90 - 110	
107	Ag	115	1	50.35	ppb	0.64	50	100.7	90 - 110	
111	Cd	115	1	50.51	ppb	0.65	50	101.0	90 - 110	
118	Sn	115	1	48.25	ppb	1.43	50	96.5	90 - 110	
121	Sb	115	1	51.69	ppb	1.15	50	103.4	90 - 110	
137	Ba	115	1	51.21	ppb	1.13	50	102.4	90 - 110	
205	Tl	165	1	49.54	ppb	1.30	50	99.1	90 - 110	
208	Pb	165	1	48.30	ppb	0.59	50	96.6	90 - 110	
232	Th	165	1	49.10	ppb	0.60	50	98.2	90 - 110	
238	U	165	1	47.23	ppb	1.77	50	94.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	436485	0.55	619221	70.5	30 - 120	
45	Sc	1	2638038	0.50	2917438	90.4	30 - 120	
72	Ge	1	1644255	1.11	1732493	94.9	30 - 120	
115	In	1	4529406	0.90	4820582	94.0	30 - 120	
165	Ho	1	8565093	0.72	9792536	87.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\115_CCB.D\115_CCB.D#
Date Acquired: Nov 1 2011 11:30 pm
Operator: TEL
Sample Name: CCB-1103571
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.017	ppb	52.98	1.00	
51	V	72	1	-0.003	ppb	281.74	1.00	
52	Cr	72	1	-0.017	ppb	54.54	1.00	
55	Mn	72	1	0.035	ppb	5.98	1.00	
59	Co	72	1	0.006	ppb	14.26	1.00	
60	Ni	72	1	-0.060	ppb	10.77	1.00	
63	Cu	72	1	0.027	ppb	19.30	1.00	
66	Zn	72	1	0.091	ppb	24.15	1.00	
75	As	72	1	0.019	ppb	1.55	1.00	
78	Se	72	1	0.296	ppb	111.20	1.00	
95	Mo	72	1	0.014	ppb	33.56	1.00	
107	Ag	115	1	0.009	ppb	1.63	1.00	
111	Cd	115	1	0.005	ppb	132.12	1.00	
118	Sn	115	1	0.038	ppb	19.59	1.00	
121	Sb	115	1	0.018	ppb	10.55	1.00	
137	Ba	115	1	0.009	ppb	50.60	1.00	
205	Tl	165	1	0.023	ppb	15.34	1.00	
208	Pb	165	1	0.013	ppb	7.06	1.00	
232	Th	165	1	0.031	ppb	10.30	1.00	
238	U	165	1	0.011	ppb	8.71	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	439113	0.29	619221	70.9	30 - 120	
45	Sc	1	2647814	1.61	2917438	90.8	30 - 120	
72	Ge	1	1649900	0.26	1732493	95.2	30 - 120	
115	In	1	4513064	1.47	4820582	93.6	30 - 120	
165	Ho	1	8445067	0.33	9792536	86.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\116WASH.D\116WASH.D#
Date Acquired:	Nov 1 2011 11:33 pm
Operator:	TEL
Sample Name:	LLICV-1103572
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.463 ppb	4.00	1.30	
51	V	72	1	4.788 ppb	0.83	6.50	
52	Cr	72	1	2.061 ppb	0.91	2.60	
55	Mn	72	1	1.105 ppb	0.96	1.30	
59	Co	72	1	1.024 ppb	1.82	1.30	
60	Ni	72	1	2.071 ppb	3.55	2.60	
63	Cu	72	1	2.115 ppb	2.05	2.60	
66	Zn	72	1	10.480 ppb	0.77	13.00	
75	As	72	1	5.415 ppb	0.88	6.50	
78	Se	72	1	5.478 ppb	4.78	6.50	
95	Mo	72	1	2.086 ppb	2.20	2.60	
107	Ag	115	1	4.898 ppb	0.66	6.50	
111	Cd	115	1	1.079 ppb	1.06	1.30	
118	Sn	115	1	9.698 ppb	2.40	13.00	
121	Sb	115	1	2.116 ppb	1.04	2.60	
137	Ba	115	1	1.120 ppb	2.93	1.30	
205	Tl	165	1	1.067 ppb	1.79	1.30	
208	Pb	165	1	1.033 ppb	0.71	1.30	
232	Th	165	1	1.993 ppb	1.79	2.60	
238	U	165	1	0.999 ppb	1.12	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	435791	0.53	619221	70.4	30 - 120	
45	Sc	1	2661687	1.40	2917438	91.2	30 - 120	
72	Ge	1	1667141	0.90	1732493	96.2	30 - 120	
115	In	1	4554710	0.68	4820582	94.5	30 - 120	
165	Ho	1	8503022	0.57	9792536	86.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\117SMPL.D\117SMPL.D#
Date Acquired:	Nov 1 2011 11:36 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-44-a
Misc Info:	
Vial Number:	3211
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.24	0.24	ppb	13.01	3600	
51	V	72	1	15.45	15.45	ppb	1.37	3600	
52	Cr	72	1	6.53	6.53	ppb	1.68	3600	
55	Mn	72	1	90.40	90.40	ppb	1.53	18000	
59	Co	72	1	1.47	1.47	ppb	2.11	3600	
60	Ni	72	1	2.44	2.44	ppb	1.41	3600	
63	Cu	72	1	3.41	3.41	ppb	1.22	3600	
66	Zn	72	1	10.52	10.52	ppb	1.64	3600	
75	As	72	1	4.07	4.07	ppb	0.26	3600	
78	Se	72	1	1.12	1.12	ppb	8.68	3600	
95	Mo	72	1	0.39	0.39	ppb	6.76	3600	
107	Ag	115	1	0.03	0.03	ppb	8.89	3600	
111	Cd	115	1	0.07	0.07	ppb	18.51	3600	
118	Sn	115	1	0.14	0.14	ppb	7.91	3600	
121	Sb	115	1	0.04	0.04	ppb	9.61	3600	
137	Ba	115	1	7.73	7.73	ppb	1.10	3600	
205	Tl	165	1	0.09	0.09	ppb	2.55	3600	
208	Pb	165	1	10.89	10.89	ppb	2.18	3600	
232	Th	165	1	8.57	8.57	ppb	2.33	1000	
238	U	165	1	1.05	1.05	ppb	1.71	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	441684	0.32	619221	71.3	30 - 120	
45	Sc	1	2715940	0.34	2917438	93.1	30 - 120	
72	Ge	1	1656614	0.58	1732493	95.6	30 - 120	
115	In	1	4531205	0.42	4820582	94.0	30 - 120	
165	Ho	1	8697435	2.11	9792536	88.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\118SMPL.D\118SMPL.D#
Date Acquired:	Nov 1 2011 11:39 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-45-a
Misc Info:	
Vial Number:	3212
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.52	0.52	ppb	13.72	3600	
51	V	72	1	15.93	15.93	ppb	1.82	3600	
52	Cr	72	1	9.60	9.60	ppb	1.06	3600	
55	Mn	72	1	425.30	425.30	ppb	0.29	18000	
59	Co	72	1	5.36	5.36	ppb	1.02	3600	
60	Ni	72	1	7.08	7.08	ppb	0.74	3600	
63	Cu	72	1	6.99	6.99	ppb	1.30	3600	
66	Zn	72	1	23.27	23.27	ppb	0.55	3600	
75	As	72	1	5.26	5.26	ppb	0.83	3600	
78	Se	72	1	0.84	0.84	ppb	12.35	3600	
95	Mo	72	1	0.41	0.41	ppb	5.38	3600	
107	Ag	115	1	0.02	0.02	ppb	11.05	3600	
111	Cd	115	1	0.08	0.08	ppb	26.06	3600	
118	Sn	115	1	0.09	0.09	ppb	1.23	3600	
121	Sb	115	1	0.03	0.03	ppb	2.24	3600	
137	Ba	115	1	18.71	18.71	ppb	0.34	3600	
205	Tl	165	1	0.25	0.25	ppb	3.28	3600	
208	Pb	165	1	6.95	6.95	ppb	1.85	3600	
232	Th	165	1	4.52	4.52	ppb	2.40	1000	
238	U	165	1	0.98	0.98	ppb	1.25	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	444022	0.38	619221	71.7	30 - 120	
45	Sc	1	2654572	1.09	2917438	91.0	30 - 120	
72	Ge	1	1646218	0.89	1732493	95.0	30 - 120	
115	In	1	4529295	0.29	4820582	94.0	30 - 120	
165	Ho	1	8625149	0.73	9792536	88.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\119SMPL.D\119SMPL.D#
Date Acquired: Nov 1 2011 11:42 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-46-a
Misc Info:
Vial Number: 3301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.28	0.28	ppb	42.35	3600	
51 V	72	1	19.16	19.16	ppb	0.66	3600	
52 Cr	72	1	8.82	8.82	ppb	1.02	3600	
55 Mn	72	1	191.60	191.60	ppb	0.36	18000	
59 Co	72	1	3.56	3.56	ppb	0.55	3600	
60 Ni	72	1	5.31	5.31	ppb	1.02	3600	
63 Cu	72	1	5.97	5.97	ppb	1.59	3600	
66 Zn	72	1	19.82	19.82	ppb	1.11	3600	
75 As	72	1	4.37	4.37	ppb	2.29	3600	
78 Se	72	1	1.20	1.20	ppb	38.58	3600	
95 Mo	72	1	0.42	0.42	ppb	5.47	3600	
107 Ag	115	1	0.03	0.03	ppb	10.48	3600	
111 Cd	115	1	0.10	0.10	ppb	12.13	3600	
118 Sn	115	1	0.14	0.14	ppb	13.37	3600	
121 Sb	115	1	0.03	0.03	ppb	10.63	3600	
137 Ba	115	1	14.99	14.99	ppb	0.35	3600	
205 Tl	165	1	0.15	0.15	ppb	0.55	3600	
208 Pb	165	1	14.30	14.30	ppb	0.15	3600	
232 Th	165	1	7.58	7.58	ppb	1.37	1000	
238 U	165	1	1.15	1.15	ppb	1.39	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	440439	0.80	619221	71.1	30 - 120	
45 Sc	1	2641326	0.94	2917438	90.5	30 - 120	
72 Ge	1	1628431	0.71	1732493	94.0	30 - 120	
115 In	1	4504611	1.13	4820582	93.4	30 - 120	
165 Ho	1	8615842	0.25	9792536	88.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\120SMPL.D\120SMPL.D#
Date Acquired:	Nov 1 2011 11:45 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-47-a
Misc Info:	
Vial Number:	3302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.38	0.38	ppb	27.39	3600	
51	V	72	1	12.26	12.26	ppb	2.46	3600	
52	Cr	72	1	6.81	6.81	ppb	2.14	3600	
55	Mn	72	1	282.10	282.10	ppb	0.83	18000	
59	Co	72	1	4.23	4.23	ppb	0.99	3600	
60	Ni	72	1	5.46	5.46	ppb	1.11	3600	
63	Cu	72	1	6.43	6.43	ppb	1.30	3600	
66	Zn	72	1	18.80	18.80	ppb	1.48	3600	
75	As	72	1	4.60	4.60	ppb	3.10	3600	
78	Se	72	1	0.89	0.89	ppb	22.53	3600	
95	Mo	72	1	0.36	0.36	ppb	5.15	3600	
107	Ag	115	1	0.02	0.02	ppb	14.75	3600	
111	Cd	115	1	0.09	0.09	ppb	7.13	3600	
118	Sn	115	1	0.06	0.06	ppb	5.84	3600	
121	Sb	115	1	0.03	0.03	ppb	6.65	3600	
137	Ba	115	1	15.76	15.76	ppb	0.09	3600	
205	Tl	165	1	0.14	0.14	ppb	1.94	3600	
208	Pb	165	1	5.96	5.96	ppb	0.50	3600	
232	Th	165	1	4.43	4.43	ppb	2.03	1000	
238	U	165	1	0.90	0.90	ppb	1.78	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	439306	0.66	619221	70.9	30 - 120	
45	Sc	1	2628167	0.77	2917438	90.1	30 - 120	
72	Ge	1	1626061	0.29	1732493	93.9	30 - 120	
115	In	1	4472093	0.30	4820582	92.8	30 - 120	
165	Ho	1	8611810	0.23	9792536	87.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\121SMPL.D\121SMPL.D#
Date Acquired: Nov 1 2011 11:48 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-b-48-a
Misc Info:
Vial Number: 3303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.35	0.35	ppb	21.09	3600	
51 V	72	1	12.97	12.97	ppb	1.50	3600	
52 Cr	72	1	7.04	7.04	ppb	1.21	3600	
55 Mn	72	1	198.70	198.70	ppb	1.66	18000	
59 Co	72	1	3.29	3.29	ppb	1.24	3600	
60 Ni	72	1	4.57	4.57	ppb	1.73	3600	
63 Cu	72	1	4.90	4.90	ppb	1.52	3600	
66 Zn	72	1	16.65	16.65	ppb	2.01	3600	
75 As	72	1	3.97	3.97	ppb	2.28	3600	
78 Se	72	1	1.14	1.14	ppb	20.10	3600	
95 Mo	72	1	0.35	0.35	ppb	8.95	3600	
107 Ag	115	1	0.02	0.02	ppb	2.33	3600	
111 Cd	115	1	0.08	0.08	ppb	12.04	3600	
118 Sn	115	1	0.07	0.07	ppb	7.89	3600	
121 Sb	115	1	0.03	0.03	ppb	9.16	3600	
137 Ba	115	1	10.58	10.58	ppb	0.74	3600	
205 Tl	165	1	0.12	0.12	ppb	3.48	3600	
208 Pb	165	1	7.46	7.46	ppb	0.75	3600	
232 Th	165	1	5.07	5.07	ppb	1.52	1000	
238 U	165	1	0.89	0.89	ppb	0.32	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	440279	1.44	619221	71.1	30 - 120	
45 Sc	1	2633391	1.26	2917438	90.3	30 - 120	
72 Ge	1	1652663	1.52	1732493	95.4	30 - 120	
115 In	1	4470384	1.09	4820582	92.7	30 - 120	
165 Ho	1	8575670	0.39	9792536	87.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\122SMPL.D\122SMPL.D#
Date Acquired: Nov 1 2011 11:51 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-49-a
Misc Info:
Vial Number: 3304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.41	0.41	ppb	30.00	3600	
51	V	72	1	21.91	21.91	ppb	1.34	3600	
52	Cr	72	1	7.44	7.44	ppb	0.93	3600	
55	Mn	72	1	340.20	340.20	ppb	1.35	18000	
59	Co	72	1	7.61	7.61	ppb	0.79	3600	
60	Ni	72	1	8.24	8.24	ppb	1.63	3600	
63	Cu	72	1	8.55	8.55	ppb	0.46	3600	
66	Zn	72	1	37.71	37.71	ppb	0.46	3600	
75	As	72	1	4.38	4.38	ppb	1.10	3600	
78	Se	72	1	0.84	0.84	ppb	16.17	3600	
95	Mo	72	1	0.32	0.32	ppb	6.26	3600	
107	Ag	115	1	0.02	0.02	ppb	13.90	3600	
111	Cd	115	1	0.13	0.13	ppb	2.96	3600	
118	Sn	115	1	0.11	0.11	ppb	2.84	3600	
121	Sb	115	1	0.02	0.02	ppb	4.68	3600	
137	Ba	115	1	26.65	26.65	ppb	0.85	3600	
205	Tl	165	1	0.16	0.16	ppb	1.10	3600	
208	Pb	165	1	5.33	5.33	ppb	1.31	3600	
232	Th	165	1	4.50	4.50	ppb	1.21	1000	
238	U	165	1	1.00	1.00	ppb	1.55	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	430287	0.95	619221	69.5	30 - 120	
45	Sc	1	2623973	0.73	2917438	89.9	30 - 120	
72	Ge	1	1618315	0.76	1732493	93.4	30 - 120	
115	In	1	4433609	1.20	4820582	92.0	30 - 120	
165	Ho	1	8535609	0.91	9792536	87.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\123SMPL.D\123SMPL.D#
Date Acquired:	Nov 1 2011 11:54 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-50-a
Misc Info:	
Vial Number:	3305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	24.93	3600	
51	V	72	1	18.54	18.54	ppb	1.24	3600	
52	Cr	72	1	9.18	9.18	ppb	1.10	3600	
55	Mn	72	1	163.40	163.40	ppb	1.17	18000	
59	Co	72	1	2.77	2.77	ppb	1.87	3600	
60	Ni	72	1	5.01	5.01	ppb	0.26	3600	
63	Cu	72	1	5.62	5.62	ppb	0.39	3600	
66	Zn	72	1	20.34	20.34	ppb	0.64	3600	
75	As	72	1	4.79	4.79	ppb	1.38	3600	
78	Se	72	1	1.20	1.20	ppb	12.91	3600	
95	Mo	72	1	0.48	0.48	ppb	2.13	3600	
107	Ag	115	1	0.03	0.03	ppb	10.43	3600	
111	Cd	115	1	0.11	0.11	ppb	12.59	3600	
118	Sn	115	1	0.07	0.07	ppb	7.21	3600	
121	Sb	115	1	0.03	0.03	ppb	14.56	3600	
137	Ba	115	1	13.47	13.47	ppb	1.51	3600	
205	Tl	165	1	0.13	0.13	ppb	1.91	3600	
208	Pb	165	1	17.57	17.57	ppb	0.18	3600	
232	Th	165	1	7.43	7.43	ppb	0.74	1000	
238	U	165	1	1.25	1.25	ppb	1.11	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	435626	0.43	619221	70.4	30 - 120	
45	Sc	1	2615836	1.04	2917438	89.7	30 - 120	
72	Ge	1	1609935	0.30	1732493	92.9	30 - 120	
115	In	1	4420570	1.32	4820582	91.7	30 - 120	
165	Ho	1	8584337	0.39	9792536	87.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\124SMPL.D\124SMPL.D#
Date Acquired: Nov 1 2011 11:57 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-51-a
Misc Info:
Vial Number: 3306
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	17.02	3600	
51	V	72	1	15.53	15.53	ppb	2.41	3600	
52	Cr	72	1	7.81	7.81	ppb	1.83	3600	
55	Mn	72	1	108.60	108.60	ppb	2.82	18000	
59	Co	72	1	1.92	1.92	ppb	2.48	3600	
60	Ni	72	1	4.43	4.43	ppb	1.83	3600	
63	Cu	72	1	4.17	4.17	ppb	0.82	3600	
66	Zn	72	1	13.57	13.57	ppb	0.98	3600	
75	As	72	1	3.93	3.93	ppb	3.93	3600	
78	Se	72	1	1.04	1.04	ppb	22.33	3600	
95	Mo	72	1	0.40	0.40	ppb	3.91	3600	
107	Ag	115	1	0.04	0.04	ppb	16.02	3600	
111	Cd	115	1	0.07	0.07	ppb	24.78	3600	
118	Sn	115	1	0.02	0.02	ppb	36.93	3600	
121	Sb	115	1	0.03	0.03	ppb	10.79	3600	
137	Ba	115	1	11.15	11.15	ppb	1.21	3600	
205	Tl	165	1	0.12	0.12	ppb	2.75	3600	
208	Pb	165	1	18.75	18.75	ppb	0.83	3600	
232	Th	165	1	6.59	6.59	ppb	1.95	1000	
238	U	165	1	1.00	1.00	ppb	1.62	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	427572	0.92	619221	69.0	30 - 120	
45	Sc	1	2581181	0.18	2917438	88.5	30 - 120	
72	Ge	1	1623939	0.29	1732493	93.7	30 - 120	
115	In	1	4398406	1.39	4820582	91.2	30 - 120	
165	Ho	1	8502154	0.52	9792536	86.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\125SMPL.D\125SMPL.D#
Date Acquired: Nov 2 2011 12:00 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-52-a
Misc Info:
Vial Number: 3307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.38	0.38	ppb	5.17	3600	
51	V	72	1	21.43	21.43	ppb	1.02	3600	
52	Cr	72	1	10.30	10.30	ppb	1.91	3600	
55	Mn	72	1	173.00	173.00	ppb	0.80	18000	
59	Co	72	1	1.83	1.83	ppb	2.40	3600	
60	Ni	72	1	5.08	5.08	ppb	1.67	3600	
63	Cu	72	1	3.98	3.98	ppb	0.94	3600	
66	Zn	72	1	17.72	17.72	ppb	0.49	3600	
75	As	72	1	5.08	5.08	ppb	0.91	3600	
78	Se	72	1	1.73	1.73	ppb	34.06	3600	
95	Mo	72	1	0.50	0.50	ppb	1.58	3600	
107	Ag	115	1	0.05	0.05	ppb	5.89	3600	
111	Cd	115	1	0.09	0.09	ppb	15.05	3600	
118	Sn	115	1	0.05	0.05	ppb	16.50	3600	
121	Sb	115	1	0.04	0.04	ppb	10.09	3600	
137	Ba	115	1	11.55	11.55	ppb	1.42	3600	
205	Tl	165	1	0.11	0.11	ppb	1.48	3600	
208	Pb	165	1	18.42	18.42	ppb	0.41	3600	
232	Th	165	1	8.55	8.55	ppb	1.28	1000	
238	U	165	1	1.29	1.29	ppb	1.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	433544	0.41	619221	70.0	30 - 120	
45	Sc	1	2610364	0.31	2917438	89.5	30 - 120	
72	Ge	1	1613570	1.03	1732493	93.1	30 - 120	
115	In	1	4437318	0.70	4820582	92.0	30 - 120	
165	Ho	1	8526558	0.52	9792536	87.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\126_CCV.D\126_CCV.D#
Date Acquired: Nov 2 2011 12:03 am
Operator: TEL
Sample Name: CCV-1103570
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	58.19	ppb	2.11	50	116.4	90 - 110	Fail
51	V	72	1	49.90	ppb	2.08	50	99.8	90 - 110	
52	Cr	72	1	48.50	ppb	1.52	50	97.0	90 - 110	
55	Mn	72	1	48.34	ppb	1.95	50	96.7	90 - 110	
59	Co	72	1	49.52	ppb	2.25	50	99.0	90 - 110	
60	Ni	72	1	47.81	ppb	0.96	50	95.6	90 - 110	
63	Cu	72	1	49.35	ppb	0.34	50	98.7	90 - 110	
66	Zn	72	1	51.09	ppb	1.15	50	102.2	90 - 110	
75	As	72	1	53.25	ppb	1.42	50	106.5	90 - 110	
78	Se	72	1	50.68	ppb	3.69	50	101.4	90 - 110	
95	Mo	72	1	49.04	ppb	1.16	50	98.1	90 - 110	
107	Ag	115	1	50.79	ppb	2.03	50	101.6	90 - 110	
111	Cd	115	1	50.33	ppb	0.28	50	100.7	90 - 110	
118	Sn	115	1	47.86	ppb	1.32	50	95.7	90 - 110	
121	Sb	115	1	51.35	ppb	0.31	50	102.7	90 - 110	
137	Ba	115	1	50.99	ppb	1.38	50	102.0	90 - 110	
205	Tl	165	1	49.75	ppb	0.45	50	99.5	90 - 110	
208	Pb	165	1	48.11	ppb	1.00	50	96.2	90 - 110	
232	Th	165	1	48.82	ppb	1.77	50	97.6	90 - 110	
238	U	165	1	47.38	ppb	1.59	50	94.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	425419	0.38	619221	68.7	30 - 120	
45	Sc	1	2589963	2.26	2917438	88.8	30 - 120	
72	Ge	1	1617220	0.96	1732493	93.3	30 - 120	
115	In	1	4478443	0.97	4820582	92.9	30 - 120	
165	Ho	1	8513344	0.51	9792536	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

1 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\127_CCB.D\127_CCB.D#
Date Acquired:	Nov 2 2011 12:05 am
Operator:	TEL
Sample Name:	CCB-1103571
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.007	ppb	264.28	1.00	
51	V	72	1	-0.008	ppb	97.26	1.00	
52	Cr	72	1	-0.012	ppb	70.56	1.00	
55	Mn	72	1	0.042	ppb	5.48	1.00	
59	Co	72	1	0.006	ppb	50.31	1.00	
60	Ni	72	1	-0.061	ppb	8.91	1.00	
63	Cu	72	1	0.022	ppb	24.91	1.00	
66	Zn	72	1	0.098	ppb	17.56	1.00	
75	As	72	1	0.017	ppb	41.32	1.00	
78	Se	72	1	-0.149	ppb	245.36	1.00	
95	Mo	72	1	0.000	ppb	2669.80	1.00	
107	Ag	115	1	0.011	ppb	18.54	1.00	
111	Cd	115	1	0.008	ppb	33.95	1.00	
118	Sn	115	1	0.037	ppb	25.21	1.00	
121	Sb	115	1	0.014	ppb	9.94	1.00	
137	Ba	115	1	0.011	ppb	26.39	1.00	
205	Tl	165	1	0.019	ppb	7.60	1.00	
208	Pb	165	1	0.012	ppb	1.84	1.00	
232	Th	165	1	0.032	ppb	5.24	1.00	
238	U	165	1	0.009	ppb	2.42	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	425412	0.63	619221	68.7	30 - 120	
45	Sc	1	2617635	0.76	2917438	89.7	30 - 120	
72	Ge	1	1613234	2.29	1732493	93.1	30 - 120	
115	In	1	4489296	1.56	4820582	93.1	30 - 120	
165	Ho	1	8446908	1.17	9792536	86.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\128WASH.D\128WASH.D#
Date Acquired:	Nov 2 2011 12:08 am
Operator:	TEL
Sample Name:	LLICV-1103572
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.393 ppb	11.60	1.30	
51	V	72	1	4.908 ppb	1.71	6.50	
52	Cr	72	1	2.111 ppb	1.99	2.60	
55	Mn	72	1	1.149 ppb	2.52	1.30	
59	Co	72	1	1.035 ppb	1.12	1.30	
60	Ni	72	1	2.064 ppb	0.63	2.60	
63	Cu	72	1	2.135 ppb	0.56	2.60	
66	Zn	72	1	10.650 ppb	1.29	13.00	
75	As	72	1	5.564 ppb	1.14	6.50	
78	Se	72	1	5.375 ppb	9.40	6.50	
95	Mo	72	1	2.097 ppb	2.27	2.60	
107	Ag	115	1	4.959 ppb	2.43	6.50	
111	Cd	115	1	1.060 ppb	5.98	1.30	
118	Sn	115	1	9.853 ppb	3.38	13.00	
121	Sb	115	1	2.129 ppb	2.41	2.60	
137	Ba	115	1	1.106 ppb	1.21	1.30	
205	Tl	165	1	1.056 ppb	0.50	1.30	
208	Pb	165	1	1.034 ppb	0.61	1.30	
232	Th	165	1	2.024 ppb	2.54	2.60	
238	U	165	1	0.988 ppb	2.20	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	426722	0.65	619221	68.9	30 - 120	
45	Sc	1	2606124	0.64	2917438	89.3	30 - 120	
72	Ge	1	1611109	0.29	1732493	93.0	30 - 120	
115	In	1	4473992	1.54	4820582	92.8	30 - 120	
165	Ho	1	8474785	0.53	9792536	86.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\129SMPL.D\129SMPL.D#
Date Acquired: Nov 2 2011 12:11 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-53-a
Misc Info:
Vial Number: 3308
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	38.42	3600	
51	V	72	1	19.27	19.27	ppb	1.33	3600	
52	Cr	72	1	8.69	8.69	ppb	1.93	3600	
55	Mn	72	1	73.43	73.43	ppb	0.85	18000	
59	Co	72	1	1.16	1.16	ppb	1.48	3600	
60	Ni	72	1	3.99	3.99	ppb	1.26	3600	
63	Cu	72	1	3.40	3.40	ppb	1.49	3600	
66	Zn	72	1	16.09	16.09	ppb	1.24	3600	
75	As	72	1	4.40	4.40	ppb	2.06	3600	
78	Se	72	1	1.41	1.41	ppb	24.77	3600	
95	Mo	72	1	0.43	0.43	ppb	8.75	3600	
107	Ag	115	1	0.05	0.05	ppb	6.20	3600	
111	Cd	115	1	0.07	0.07	ppb	2.20	3600	
118	Sn	115	1	0.08	0.08	ppb	13.83	3600	
121	Sb	115	1	0.03	0.03	ppb	2.90	3600	
137	Ba	115	1	8.74	8.74	ppb	0.91	3600	
205	Tl	165	1	0.11	0.11	ppb	4.02	3600	
208	Pb	165	1	16.08	16.08	ppb	0.70	3600	
232	Th	165	1	6.46	6.46	ppb	1.31	1000	
238	U	165	1	1.05	1.05	ppb	0.80	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	433014	0.69	619221	69.9	30 - 120	
45	Sc	1	2633816	0.51	2917438	90.3	30 - 120	
72	Ge	1	1632853	0.51	1732493	94.2	30 - 120	
115	In	1	4447593	0.19	4820582	92.3	30 - 120	
165	Ho	1	8595305	0.71	9792536	87.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\130SMPL.D\130SMPL.D#
Date Acquired: Nov 2 2011 12:14 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-b-54-a
Misc Info:
Vial Number: 3309
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.27	0.27	ppb	29.83	3600	
51	V	72	1	18.11	18.11	ppb	1.12	3600	
52	Cr	72	1	9.75	9.75	ppb	0.91	3600	
55	Mn	72	1	87.39	87.39	ppb	0.59	18000	
59	Co	72	1	2.59	2.59	ppb	1.49	3600	
60	Ni	72	1	7.47	7.47	ppb	2.96	3600	
63	Cu	72	1	3.98	3.98	ppb	0.59	3600	
66	Zn	72	1	20.05	20.05	ppb	0.95	3600	
75	As	72	1	4.46	4.46	ppb	2.01	3600	
78	Se	72	1	1.55	1.55	ppb	11.05	3600	
95	Mo	72	1	0.41	0.41	ppb	3.50	3600	
107	Ag	115	1	0.03	0.03	ppb	9.02	3600	
111	Cd	115	1	0.06	0.06	ppb	18.22	3600	
118	Sn	115	1	0.07	0.07	ppb	10.33	3600	
121	Sb	115	1	0.03	0.03	ppb	10.34	3600	
137	Ba	115	1	9.76	9.76	ppb	0.48	3600	
205	Tl	165	1	0.08	0.08	ppb	5.51	3600	
208	Pb	165	1	7.19	7.19	ppb	0.46	3600	
232	Th	165	1	7.70	7.70	ppb	0.16	1000	
238	U	165	1	1.09	1.09	ppb	0.87	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	429132	0.05	619221	69.3	30 - 120	
45	Sc	1	2615518	2.54	2917438	89.7	30 - 120	
72	Ge	1	1608133	0.82	1732493	92.8	30 - 120	
115	In	1	4492878	0.52	4820582	93.2	30 - 120	
165	Ho	1	8531021	0.95	9792536	87.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\131SMPL.D\131SMPL.D#
Date Acquired:	Nov 2 2011 12:17 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-55-a
Misc Info:	
Vial Number:	3310
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.40	0.40	ppb	10.55	3600	
51	V	72	1	17.59	17.59	ppb	0.14	3600	
52	Cr	72	1	8.58	8.58	ppb	0.60	3600	
55	Mn	72	1	207.10	207.10	ppb	2.79	18000	
59	Co	72	1	3.07	3.07	ppb	1.10	3600	
60	Ni	72	1	5.87	5.87	ppb	1.02	3600	
63	Cu	72	1	5.02	5.02	ppb	1.27	3600	
66	Zn	72	1	22.01	22.01	ppb	0.92	3600	
75	As	72	1	4.78	4.78	ppb	0.71	3600	
78	Se	72	1	1.20	1.20	ppb	20.85	3600	
95	Mo	72	1	0.52	0.52	ppb	4.74	3600	
107	Ag	115	1	0.04	0.04	ppb	20.13	3600	
111	Cd	115	1	0.10	0.10	ppb	9.96	3600	
118	Sn	115	1	0.07	0.07	ppb	15.36	3600	
121	Sb	115	1	0.03	0.03	ppb	14.54	3600	
137	Ba	115	1	11.39	11.39	ppb	1.20	3600	
205	Tl	165	1	0.13	0.13	ppb	2.24	3600	
208	Pb	165	1	8.25	8.25	ppb	0.68	3600	
232	Th	165	1	6.22	6.22	ppb	1.45	1000	
238	U	165	1	1.03	1.03	ppb	1.13	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	432314	0.59	619221	69.8	30 - 120	
45	Sc	1	2642831	0.94	2917438	90.6	30 - 120	
72	Ge	1	1631671	0.26	1732493	94.2	30 - 120	
115	In	1	4475504	1.53	4820582	92.8	30 - 120	
165	Ho	1	8583810	0.17	9792536	87.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\132SMPL.D\132SMPL.D#
Date Acquired:	Nov 2 2011 12:20 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-56-a
Misc Info:	
Vial Number:	3311
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	40.07	3600	
51	V	72	1	17.92	17.92	ppb	1.96	3600	
52	Cr	72	1	10.57	10.57	ppb	2.28	3600	
55	Mn	72	1	81.65	81.65	ppb	1.86	18000	
59	Co	72	1	2.36	2.36	ppb	0.10	3600	
60	Ni	72	1	6.67	6.67	ppb	1.63	3600	
63	Cu	72	1	3.98	3.98	ppb	0.88	3600	
66	Zn	72	1	17.30	17.30	ppb	0.85	3600	
75	As	72	1	4.45	4.45	ppb	0.94	3600	
78	Se	72	1	1.65	1.65	ppb	1.52	3600	
95	Mo	72	1	0.42	0.42	ppb	1.99	3600	
107	Ag	115	1	0.03	0.03	ppb	7.83	3600	
111	Cd	115	1	0.08	0.08	ppb	18.84	3600	
118	Sn	115	1	0.07	0.07	ppb	11.43	3600	
121	Sb	115	1	0.02	0.02	ppb	8.15	3600	
137	Ba	115	1	10.89	10.89	ppb	0.59	3600	
205	Tl	165	1	0.12	0.12	ppb	0.82	3600	
208	Pb	165	1	7.32	7.32	ppb	0.55	3600	
232	Th	165	1	7.01	7.01	ppb	1.42	1000	
238	U	165	1	1.09	1.09	ppb	0.39	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	424878	0.69	619221	68.6	30 - 120	
45	Sc	1	2617653	1.61	2917438	89.7	30 - 120	
72	Ge	1	1636731	0.77	1732493	94.5	30 - 120	
115	In	1	4488935	0.97	4820582	93.1	30 - 120	
165	Ho	1	8483140	0.60	9792536	86.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\133SMPL.D\133SMPL.D#
Date Acquired:	Nov 2 2011 12:23 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-57-a
Misc Info:	
Vial Number:	3312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.24	0.24	ppb	36.36	3600	
51	V	72	1	17.31	17.31	ppb	1.17	3600	
52	Cr	72	1	7.37	7.37	ppb	1.49	3600	
55	Mn	72	1	87.06	87.06	ppb	0.88	18000	
59	Co	72	1	1.27	1.27	ppb	2.69	3600	
60	Ni	72	1	3.19	3.19	ppb	2.83	3600	
63	Cu	72	1	3.91	3.91	ppb	2.69	3600	
66	Zn	72	1	13.32	13.32	ppb	0.86	3600	
75	As	72	1	4.86	4.86	ppb	1.61	3600	
78	Se	72	1	1.00	1.00	ppb	15.23	3600	
95	Mo	72	1	0.49	0.49	ppb	4.66	3600	
107	Ag	115	1	0.03	0.03	ppb	3.23	3600	
111	Cd	115	1	0.08	0.08	ppb	11.74	3600	
118	Sn	115	1	0.05	0.05	ppb	34.42	3600	
121	Sb	115	1	0.03	0.03	ppb	9.79	3600	
137	Ba	115	1	11.39	11.39	ppb	0.88	3600	
205	Tl	165	1	0.12	0.12	ppb	2.86	3600	
208	Pb	165	1	13.08	13.08	ppb	0.12	3600	
232	Th	165	1	5.47	5.47	ppb	1.43	1000	
238	U	165	1	0.93	0.93	ppb	1.36	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	429919	0.73	619221	69.4	30 - 120	
45	Sc	1	2635710	2.52	2917438	90.3	30 - 120	
72	Ge	1	1634547	1.91	1732493	94.3	30 - 120	
115	In	1	4488134	0.11	4820582	93.1	30 - 120	
165	Ho	1	8562603	0.23	9792536	87.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\134SMPL.D\134SMPL.D#
Date Acquired: Nov 2 2011 12:26 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-58-a
Misc Info:
Vial Number: 3401
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.36	0.36	ppb	19.79	3600	
51	V	72	1	18.13	18.13	ppb	1.28	3600	
52	Cr	72	1	8.90	8.90	ppb	1.48	3600	
55	Mn	72	1	530.30	530.30	ppb	1.05	18000	
59	Co	72	1	2.62	2.62	ppb	1.16	3600	
60	Ni	72	1	5.46	5.46	ppb	0.93	3600	
63	Cu	72	1	4.16	4.16	ppb	1.58	3600	
66	Zn	72	1	26.61	26.61	ppb	0.37	3600	
75	As	72	1	4.56	4.56	ppb	2.22	3600	
78	Se	72	1	1.14	1.14	ppb	10.18	3600	
95	Mo	72	1	0.59	0.59	ppb	2.21	3600	
107	Ag	115	1	0.04	0.04	ppb	8.68	3600	
111	Cd	115	1	0.08	0.08	ppb	11.52	3600	
118	Sn	115	1	0.11	0.11	ppb	3.24	3600	
121	Sb	115	1	0.02	0.02	ppb	8.10	3600	
137	Ba	115	1	11.89	11.89	ppb	0.89	3600	
205	Tl	165	1	0.20	0.20	ppb	3.64	3600	
208	Pb	165	1	10.18	10.18	ppb	0.84	3600	
232	Th	165	1	6.31	6.31	ppb	0.86	1000	
238	U	165	1	1.16	1.16	ppb	0.50	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	427495	1.19	619221	69.0	30 - 120	
45	Sc	1	2616019	1.42	2917438	89.7	30 - 120	
72	Ge	1	1649339	1.16	1732493	95.2	30 - 120	
115	In	1	4457464	1.75	4820582	92.5	30 - 120	
165	Ho	1	8596410	0.46	9792536	87.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\135SMPL.D\135SMPL.D#
Date Acquired:	Nov 2 2011 12:29 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-59-a
Misc Info:	
Vial Number:	3402
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.35	0.35	ppb	20.73	3600	
51	V	72	1	15.11	15.11	ppb	2.34	3600	
52	Cr	72	1	8.29	8.29	ppb	1.28	3600	
55	Mn	72	1	194.20	194.20	ppb	2.04	18000	
59	Co	72	1	3.15	3.15	ppb	2.49	3600	
60	Ni	72	1	5.76	5.76	ppb	1.46	3600	
63	Cu	72	1	5.35	5.35	ppb	2.03	3600	
66	Zn	72	1	20.15	20.15	ppb	1.16	3600	
75	As	72	1	4.87	4.87	ppb	3.06	3600	
78	Se	72	1	1.25	1.25	ppb	41.76	3600	
95	Mo	72	1	0.46	0.46	ppb	4.03	3600	
107	Ag	115	1	0.03	0.03	ppb	11.02	3600	
111	Cd	115	1	0.08	0.08	ppb	2.14	3600	
118	Sn	115	1	0.12	0.12	ppb	6.32	3600	
121	Sb	115	1	0.03	0.03	ppb	11.33	3600	
137	Ba	115	1	13.49	13.49	ppb	2.07	3600	
205	Tl	165	1	0.17	0.17	ppb	1.41	3600	
208	Pb	165	1	9.25	9.25	ppb	0.90	3600	
232	Th	165	1	7.72	7.72	ppb	0.92	1000	
238	U	165	1	1.35	1.35	ppb	1.21	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	427105	1.49	619221	69.0	30 - 120	
45	Sc	1	2643896	0.42	2917438	90.6	30 - 120	
72	Ge	1	1638592	1.28	1732493	94.6	30 - 120	
115	In	1	4481975	0.50	4820582	93.0	30 - 120	
165	Ho	1	8510244	0.70	9792536	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\136SMPL.D\136SMPL.D#
Date Acquired: Nov 2 2011 12:32 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-60-a
Misc Info:
Vial Number: 3403
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.32	0.32	ppb	7.66	3600	
51	V	72	1	13.24	13.24	ppb	1.76	3600	
52	Cr	72	1	7.81	7.81	ppb	2.03	3600	
55	Mn	72	1	165.20	165.20	ppb	1.52	18000	
59	Co	72	1	3.01	3.01	ppb	2.05	3600	
60	Ni	72	1	5.65	5.65	ppb	0.56	3600	
63	Cu	72	1	5.13	5.13	ppb	2.54	3600	
66	Zn	72	1	18.57	18.57	ppb	1.65	3600	
75	As	72	1	4.05	4.05	ppb	2.14	3600	
78	Se	72	1	1.39	1.39	ppb	12.93	3600	
95	Mo	72	1	0.36	0.36	ppb	2.62	3600	
107	Ag	115	1	0.02	0.02	ppb	19.86	3600	
111	Cd	115	1	0.07	0.07	ppb	3.05	3600	
118	Sn	115	1	0.10	0.10	ppb	3.40	3600	
121	Sb	115	1	0.02	0.02	ppb	8.78	3600	
137	Ba	115	1	11.58	11.58	ppb	0.11	3600	
205	Tl	165	1	0.12	0.12	ppb	2.08	3600	
208	Pb	165	1	8.43	8.43	ppb	0.69	3600	
232	Th	165	1	7.63	7.63	ppb	0.82	1000	
238	U	165	1	1.18	1.18	ppb	1.37	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	431054	1.04	619221	69.6	30 - 120	
45	Sc	1	2637732	1.45	2917438	90.4	30 - 120	
72	Ge	1	1639367	0.97	1732493	94.6	30 - 120	
115	In	1	4509439	0.50	4820582	93.5	30 - 120	
165	Ho	1	8545232	0.26	9792536	87.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\137_CCV.D\137_CCV.D#
Date Acquired: Nov 2 2011 12:35 am
Operator: TEL
Sample Name: CCV-1103570
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	58.85	ppb	1.76	50	117.7	90 - 110	Fail
51	V	72	1	49.42	ppb	0.48	50	98.8	90 - 110	
52	Cr	72	1	49.24	ppb	0.87	50	98.5	90 - 110	
55	Mn	72	1	48.56	ppb	0.87	50	97.1	90 - 110	
59	Co	72	1	49.22	ppb	0.81	50	98.4	90 - 110	
60	Ni	72	1	47.60	ppb	0.76	50	95.2	90 - 110	
63	Cu	72	1	49.49	ppb	3.12	50	99.0	90 - 110	
66	Zn	72	1	50.87	ppb	0.52	50	101.7	90 - 110	
75	As	72	1	53.28	ppb	0.85	50	106.6	90 - 110	
78	Se	72	1	52.10	ppb	1.02	50	104.2	90 - 110	
95	Mo	72	1	49.20	ppb	0.89	50	98.4	90 - 110	
107	Ag	115	1	50.67	ppb	1.97	50	101.3	90 - 110	
111	Cd	115	1	50.67	ppb	1.29	50	101.3	90 - 110	
118	Sn	115	1	48.32	ppb	0.90	50	96.6	90 - 110	
121	Sb	115	1	51.75	ppb	0.49	50	103.5	90 - 110	
137	Ba	115	1	50.97	ppb	1.20	50	101.9	90 - 110	
205	Tl	165	1	50.52	ppb	0.72	50	101.0	90 - 110	
208	Pb	165	1	48.91	ppb	0.49	50	97.8	90 - 110	
232	Th	165	1	49.33	ppb	1.41	50	98.7	90 - 110	
238	U	165	1	47.72	ppb	1.38	50	95.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	421424	1.02	619221	68.1	30 - 120	
45	Sc	1	2593328	1.14	2917438	88.9	30 - 120	
72	Ge	1	1628245	0.93	1732493	94.0	30 - 120	
115	In	1	4470144	1.30	4820582	92.7	30 - 120	
165	Ho	1	8362626	1.14	9792536	85.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

1 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\138_CCB.D\138_CCB.D#
Date Acquired:	Nov 2 2011 12:38 am
Operator:	TEL
Sample Name:	CCB-1103571
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.002	ppb	550.85	1.00	
51	V	72	1	-0.006	ppb	224.93	1.00	
52	Cr	72	1	-0.015	ppb	50.33	1.00	
55	Mn	72	1	0.038	ppb	17.15	1.00	
59	Co	72	1	0.009	ppb	19.02	1.00	
60	Ni	72	1	-0.056	ppb	15.51	1.00	
63	Cu	72	1	0.020	ppb	25.92	1.00	
66	Zn	72	1	0.072	ppb	16.89	1.00	
75	As	72	1	0.012	ppb	45.19	1.00	
78	Se	72	1	0.090	ppb	482.71	1.00	
95	Mo	72	1	0.013	ppb	58.80	1.00	
107	Ag	115	1	0.010	ppb	22.54	1.00	
111	Cd	115	1	0.008	ppb	7.21	1.00	
118	Sn	115	1	0.035	ppb	19.15	1.00	
121	Sb	115	1	0.016	ppb	17.68	1.00	
137	Ba	115	1	0.012	ppb	33.02	1.00	
205	Tl	165	1	0.019	ppb	5.92	1.00	
208	Pb	165	1	0.012	ppb	2.79	1.00	
232	Th	165	1	0.035	ppb	9.18	1.00	
238	U	165	1	0.009	ppb	12.22	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	419870	0.49	619221	67.8	30 - 120	
45	Sc	1	2587339	0.39	2917438	88.7	30 - 120	
72	Ge	1	1621427	2.11	1732493	93.6	30 - 120	
115	In	1	4506102	1.55	4820582	93.5	30 - 120	
165	Ho	1	8446240	0.05	9792536	86.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\139WASH.D\139WASH.D#
Date Acquired: Nov 2 2011 12:41 am
Operator: TEL
Sample Name: LLICV-1103572
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.228	ppb	9.44	1.30	
51	V	72	1	4.865	ppb	1.42	6.50	
52	Cr	72	1	2.061	ppb	0.93	2.60	
55	Mn	72	1	1.105	ppb	3.71	1.30	
59	Co	72	1	1.034	ppb	3.12	1.30	
60	Ni	72	1	2.081	ppb	2.13	2.60	
63	Cu	72	1	2.130	ppb	1.99	2.60	
66	Zn	72	1	10.590	ppb	1.33	13.00	
75	As	72	1	5.534	ppb	1.99	6.50	
78	Se	72	1	5.397	ppb	7.57	6.50	
95	Mo	72	1	2.095	ppb	1.42	2.60	
107	Ag	115	1	4.907	ppb	1.24	6.50	
111	Cd	115	1	1.078	ppb	0.21	1.30	
118	Sn	115	1	9.854	ppb	1.14	13.00	
121	Sb	115	1	2.134	ppb	0.56	2.60	
137	Ba	115	1	1.105	ppb	1.63	1.30	
205	Tl	165	1	1.054	ppb	1.80	1.30	
208	Pb	165	1	1.028	ppb	2.08	1.30	
232	Th	165	1	1.988	ppb	0.69	2.60	
238	U	165	1	0.991	ppb	1.82	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	422269	1.53	619221	68.2	30 - 120	
45	Sc	1	2610819	0.85	2917438	89.5	30 - 120	
72	Ge	1	1625736	0.30	1732493	93.8	30 - 120	
115	In	1	4473610	0.64	4820582	92.8	30 - 120	
165	Ho	1	8447898	1.34	9792536	86.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\140_BLK.D\140_BLK.D#
Date Acquired: Nov 2 2011 12:43 am
Operator: TEL
Sample Name: mb 280-91960/1-a
Misc Info: BLANK 91960 Soil DoD4/6020A
Vial Number: 3404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.002 ppb	548.02	2.00	
51	V	72	1	-0.010 ppb	202.42	2.00	
52	Cr	72	1	0.083 ppb	8.99	2.00	
55	Mn	72	1	0.101 ppb	2.37	2.00	
59	Co	72	1	0.003 ppb	37.68	2.00	
60	Ni	72	1	-0.002 ppb	925.79	2.00	
63	Cu	72	1	0.110 ppb	8.28	2.00	
66	Zn	72	1	0.931 ppb	1.13	2.00	
75	As	72	1	0.018 ppb	71.32	2.00	
78	Se	72	1	0.266 ppb	52.18	2.00	
95	Mo	72	1	-0.002 ppb	73.71	2.00	
107	Ag	115	1	0.003 ppb	36.13	2.00	
111	Cd	115	1	0.004 ppb	61.34	2.00	
118	Sn	115	1	0.053 ppb	7.65	2.00	
121	Sb	115	1	0.017 ppb	4.47	2.00	
137	Ba	115	1	0.143 ppb	8.21	2.00	
205	Tl	165	1	0.007 ppb	13.50	2.00	
208	Pb	165	1	0.023 ppb	1.26	2.00	
232	Th	165	1	0.015 ppb	24.17	2.00	
238	U	165	1	0.005 ppb	2.50	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	423947	0.82	619221	68.5	30 - 120	
45	Sc	1	2626986	0.81	2917438	90.0	30 - 120	
72	Ge	1	1632758	0.72	1732493	94.2	30 - 120	
115	In	1	4516182	1.37	4820582	93.7	30 - 120	
165	Ho	1	8513654	1.69	9792536	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\141_LCS.D\141_LCS.D#
Date Acquired:	Nov 2 2011 12:46 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-91960/2-a
Misc Info:	LCS
Vial Number:	3405
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	46.75	1.61	40	116.9	80 - 120	
51	V	72	1	41.04	0.39	40	102.6	80 - 120	
52	Cr	72	1	41.49	1.96	40	103.7	80 - 120	
55	Mn	72	1	39.91	1.49	40	99.8	80 - 120	
59	Co	72	1	41.44	1.49	40	103.6	80 - 120	
60	Ni	72	1	40.14	1.09	40	100.4	80 - 120	
63	Cu	72	1	41.01	1.40	40	102.5	80 - 120	
66	Zn	72	1	41.92	1.30	40	104.8	80 - 120	
75	As	72	1	43.66	1.46	40	109.2	80 - 120	
78	Se	72	1	42.27	4.13	40	105.7	80 - 120	
95	Mo	72	1	41.74	1.48	40	104.4	80 - 120	
107	Ag	115	1	41.71	0.96	40	104.3	80 - 120	
111	Cd	115	1	41.49	0.40	40	103.7	80 - 120	
118	Sn	115	1	40.37	0.50	40	100.9	80 - 120	
121	Sb	115	1	42.69	0.29	40	106.7	80 - 120	
137	Ba	115	1	43.22	0.46	40	108.1	80 - 120	
205	Tl	165	1	41.55	0.30	40	103.9	80 - 120	
208	Pb	165	1	40.14	1.41	40	100.4	80 - 120	
232	Th	165	1	40.22	1.24	40	100.6	80 - 120	
238	U	165	1	40.11	0.32	40	100.3	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	423969	0.49	619221	68.5	30 - 120	
45	Sc	1	2579257	1.38	2917438	88.4	30 - 120	
72	Ge	1	1610607	1.88	1732493	93.0	30 - 120	
115	In	1	4449403	0.97	4820582	92.3	30 - 120	
165	Ho	1	8442395	0.86	9792536	86.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\142AREF.D\142AREF.D#
Date Acquired: Nov 2 2011 12:49 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-61-a
Misc Info:
Vial Number: 3406
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.28	0.28	ppb	25.20	3600	
51	V	72	1	16.09	16.09	ppb	1.13	3600	
52	Cr	72	1	6.77	6.77	ppb	0.50	3600	
55	Mn	72	1	75.19	75.19	ppb	0.98	18000	
59	Co	72	1	1.01	1.01	ppb	1.63	3600	
60	Ni	72	1	4.04	4.04	ppb	0.56	3600	
63	Cu	72	1	4.17	4.17	ppb	1.93	3600	
66	Zn	72	1	12.09	12.09	ppb	1.48	3600	
75	As	72	1	4.08	4.08	ppb	1.33	3600	
78	Se	72	1	1.07	1.07	ppb	26.48	3600	
95	Mo	72	1	0.50	0.50	ppb	2.60	3600	
107	Ag	115	1	0.05	0.05	ppb	4.98	3600	
111	Cd	115	1	0.08	0.08	ppb	6.51	3600	
118	Sn	115	1	0.16	0.16	ppb	33.29	3600	
121	Sb	115	1	0.05	0.05	ppb	3.71	3600	
137	Ba	115	1	8.19	8.19	ppb	0.61	3600	
205	Tl	165	1	0.14	0.14	ppb	3.40	3600	
208	Pb	165	1	16.24	16.24	ppb	0.82	3600	
232	Th	165	1	5.82	5.82	ppb	1.54	1000	
238	U	165	1	0.89	0.89	ppb	1.35	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	422399	0.96	619221	68.2	30 - 120	
45	Sc	1	2624527	0.67	2917438	90.0	30 - 120	
72	Ge	1	1621874	1.43	1732493	93.6	30 - 120	
115	In	1	4445462	0.54	4820582	92.2	30 - 120	
165	Ho	1	8522247	1.46	9792536	87.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\143SDIL.D\143SDIL.D#
Date Acquired:	Nov 2 2011 12:52 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-61-a SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	3407
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110111.B\142AREF.D\142AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.05	ppb	66.51	0.06	89.6	90 - 110	
51 V	72	1	3.28	ppb	2.24	3.22	102.0	90 - 110	
52 Cr	72	1	1.36	ppb	1.80	1.35	100.4	90 - 110	
55 Mn	72	1	14.88	ppb	1.46	15.04	98.9	90 - 110	
59 Co	72	1	0.21	ppb	2.98	0.20	102.1	90 - 110	
60 Ni	72	1	0.79	ppb	4.06	0.81	97.3	90 - 110	
63 Cu	72	1	0.90	ppb	4.79	0.83	107.3	90 - 110	
66 Zn	72	1	2.53	ppb	2.97	2.42	104.4	90 - 110	
75 As	72	1	0.84	ppb	3.64	0.82	103.1	90 - 110	
78 Se	72	1	0.09	ppb	171.19	0.21	43.2	90 - 110	
95 Mo	72	1	0.10	ppb	14.04	0.10	100.8	90 - 110	
107 Ag	115	1	0.01	ppb	15.52	0.01	136.8	90 - 110	
111 Cd	115	1	0.02	ppb	26.72	0.02	106.4	90 - 110	
118 Sn	115	1	0.07	ppb	14.89	0.03	218.5	90 - 110	
121 Sb	115	1	0.02	ppb	4.41	0.01	172.1	90 - 110	
137 Ba	115	1	1.70	ppb	2.30	1.64	104.0	90 - 110	
205 Tl	165	1	0.03	ppb	3.72	0.03	103.1	90 - 110	
208 Pb	165	1	3.34	ppb	1.21	3.25	102.9	90 - 110	
232 Th	165	1	1.19	ppb	2.48	1.16	101.8	90 - 110	
238 U	165	1	0.19	ppb	0.41	0.18	106.5	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	425043	1.07	619221	68.6	30 - 120	
45 Sc	1	2632825	1.17	2917438	90.2	30 - 120	
72 Ge	1	1612856	1.49	1732493	93.1	30 - 120	
115 In	1	4459619	1.92	4820582	92.5	30 - 120	
165 Ho	1	8480300	0.39	9792536	86.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\144PDS.D\144PDS.D#
Date Acquired:	Nov 2 2011 12:55 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-61-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3408
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00
Spike Ref. File:	---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	213.50	0.28	ppb	1.50	200	106.6	75 - 125	
51 V	72	1	206.50	16.09	ppb	0.79	200	95.6	75 - 125	
52 Cr	72	1	194.90	6.77	ppb	1.46	200	94.3	75 - 125	
55 Mn	72	1	262.90	75.19	ppb	1.25	200	95.5	75 - 125	
59 Co	72	1	193.50	1.01	ppb	0.33	200	96.3	75 - 125	
60 Ni	72	1	201.50	4.04	ppb	0.94	200	98.8	75 - 125	
63 Cu	72	1	196.90	4.17	ppb	0.34	200	96.4	75 - 125	
66 Zn	72	1	197.40	12.09	ppb	0.68	200	93.1	75 - 125	
75 As	72	1	204.30	4.08	ppb	0.77	200	100.1	75 - 125	
78 Se	72	1	203.30	1.07	ppb	1.16	200	101.1	75 - 125	
95 Mo	72	1	207.70	0.50	ppb	0.78	200	103.6	75 - 125	
107 Ag	115	1	49.14	0.05	ppb	0.61	50	98.2	75 - 125	
111 Cd	115	1	191.80	0.08	ppb	0.36	200	95.9	75 - 125	
118 Sn	115	1	193.10	0.16	ppb	1.64	200	96.5	75 - 125	
121 Sb	115	1	194.20	0.05	ppb	1.58	200	97.1	75 - 125	
137 Ba	115	1	217.10	8.19	ppb	1.52	200	104.3	75 - 125	
205 Tl	165	1	190.70	0.14	ppb	0.48	200	95.3	75 - 125	
208 Pb	165	1	201.70	16.24	ppb	0.58	200	93.3	75 - 125	
232 Th	165	1	5.82	5.82	ppb	1.45	200	2.8	75 - 125	
238 U	165	1	186.10	0.89	ppb	1.26	200	92.6	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	408363	0.40	619221	65.9	30 - 120	
45 Sc	1	2497665	1.44	2917438	85.6	30 - 120	
72 Ge	1	1498693	0.17	1732493	86.5	30 - 120	
115 In	1	4370755	1.19	4820582	90.7	30 - 120	
165 Ho	1	8532920	0.58	9792536	87.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\145_MS.D\145_MS.D#
Date Acquired: Nov 2 2011 12:58 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-61-b ms
Misc Info: MATRIX SPIKE
Vial Number: 3409
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	45.91	0.28	ppb	1.65	40	114.0	50 - 150	
51	V	72	1	61.39	16.09	ppb	2.21	40	109.4	50 - 150	
52	Cr	72	1	50.57	6.77	ppb	3.48	40	108.1	50 - 150	
55	Mn	72	1	154.90	75.19	ppb	2.39	40	134.5	50 - 150	
59	Co	72	1	43.63	1.01	ppb	1.49	40	106.4	50 - 150	
60	Ni	72	1	45.34	4.04	ppb	0.97	40	103.0	50 - 150	
63	Cu	72	1	45.20	4.17	ppb	0.49	40	102.3	50 - 150	
66	Zn	72	1	53.28	12.09	ppb	0.89	40	102.3	50 - 150	
75	As	72	1	45.16	4.08	ppb	0.94	40	102.4	50 - 150	
78	Se	72	1	43.09	1.07	ppb	2.82	40	104.9	50 - 150	
95	Mo	72	1	40.05	0.50	ppb	1.00	40	98.9	50 - 150	
107	Ag	115	1	39.99	0.05	ppb	2.05	40	99.8	50 - 150	
111	Cd	115	1	40.29	0.08	ppb	1.83	40	100.5	50 - 150	
118	Sn	115	1	5.79	0.16	ppb	2.06	40	14.4	50 - 150	
121	Sb	115	1	6.75	0.05	ppb	2.03	40	16.9	50 - 150	
137	Ba	115	1	53.23	8.19	ppb	1.43	40	110.5	50 - 150	
205	Tl	165	1	41.33	0.14	ppb	1.59	40	103.0	50 - 150	
208	Pb	165	1	59.59	16.24	ppb	1.88	40	106.0	50 - 150	
232	Th	165	1	46.39	5.82	ppb	0.89	40	101.2	50 - 150	
238	U	165	1	41.63	0.89	ppb	1.51	40	101.8	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	406807	1.40	619221	65.7	30 - 120	
45	Sc	1	2543724	0.77	2917438	87.2	30 - 120	
72	Ge	1	1514161	0.66	1732493	87.4	30 - 120	
115	In	1	4414104	1.04	4820582	91.6	30 - 120	
165	Ho	1	8605634	0.96	9792536	87.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\146_MSD.D\146_MSD.D#
Date Acquired: Nov 2 2011 01:01 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-61-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3410
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110111.B\145_MS.D\145_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	43.37	ppb	4.36	45.91	5.69	20	
51	V	72	1	54.13	ppb	1.03	61.39	12.57	20	
52	Cr	72	1	45.56	ppb	2.18	50.57	10.42	20	
55	Mn	72	1	103.90	ppb	0.59	154.90	39.41	20	
59	Co	72	1	40.77	ppb	2.14	43.63	6.78	20	
60	Ni	72	1	42.13	ppb	0.67	45.34	7.34	20	
63	Cu	72	1	42.32	ppb	0.89	45.20	6.58	20	
66	Zn	72	1	47.53	ppb	1.05	53.28	11.41	20	
75	As	72	1	42.42	ppb	1.36	45.16	6.26	20	
78	Se	72	1	41.37	ppb	2.12	43.09	4.07	20	
95	Mo	72	1	38.12	ppb	0.67	40.05	4.94	20	
107	Ag	115	1	39.39	ppb	2.08	39.99	1.51	20	
111	Cd	115	1	38.89	ppb	1.46	40.29	3.54	20	
118	Sn	115	1	6.38	ppb	4.07	5.79	9.69	20	
121	Sb	115	1	7.34	ppb	1.24	6.75	8.25	20	
137	Ba	115	1	48.68	ppb	1.91	53.23	8.93	20	
205	Tl	165	1	40.54	ppb	1.90	41.33	1.93	20	
208	Pb	165	1	53.55	ppb	1.06	59.59	10.68	20	
232	Th	165	1	43.33	ppb	0.61	46.39	6.82	20	
238	U	165	1	40.17	ppb	2.28	41.63	3.57	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	411416	0.85	619221	66.4	30 - 120	
45	Sc	1	2534893	1.51	2917438	86.9	30 - 120	
72	Ge	1	1537269	1.53	1732493	88.7	30 - 120	
115	In	1	4424753	1.14	4820582	91.8	30 - 120	
165	Ho	1	8531141	0.69	9792536	87.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\147SMPL.D\147SMPL.D#
Date Acquired: Nov 2 2011 01:04 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-b-62-a
Misc Info:
Vial Number: 3411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.23	0.23	ppb	37.74	3600	
51	V	72	1	15.38	15.38	ppb	1.53	3600	
52	Cr	72	1	7.48	7.48	ppb	1.38	3600	
55	Mn	72	1	67.86	67.86	ppb	1.97	18000	
59	Co	72	1	0.94	0.94	ppb	0.62	3600	
60	Ni	72	1	3.33	3.33	ppb	1.84	3600	
63	Cu	72	1	2.33	2.33	ppb	2.26	3600	
66	Zn	72	1	9.59	9.59	ppb	1.35	3600	
75	As	72	1	3.20	3.20	ppb	2.24	3600	
78	Se	72	1	1.63	1.63	ppb	11.44	3600	
95	Mo	72	1	0.49	0.49	ppb	4.04	3600	
107	Ag	115	1	0.04	0.04	ppb	4.83	3600	
111	Cd	115	1	0.06	0.06	ppb	22.81	3600	
118	Sn	115	1	0.07	0.07	ppb	17.71	3600	
121	Sb	115	1	0.02	0.02	ppb	13.05	3600	
137	Ba	115	1	8.40	8.40	ppb	0.68	3600	
205	Tl	165	1	0.12	0.12	ppb	3.39	3600	
208	Pb	165	1	6.01	6.01	ppb	0.58	3600	
232	Th	165	1	6.57	6.57	ppb	0.92	1000	
238	U	165	1	0.96	0.96	ppb	1.12	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	408466	0.38	619221	66.0	30 - 120	
45	Sc	1	2524256	0.64	2917438	86.5	30 - 120	
72	Ge	1	1521855	1.88	1732493	87.8	30 - 120	
115	In	1	4455820	0.68	4820582	92.4	30 - 120	
165	Ho	1	8564852	1.12	9792536	87.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\148_CCV.D\148_CCV.D#
Date Acquired:	Nov 2 2011 01:07 am
Operator:	TEL
Sample Name:	CCV-1103570
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	54.69	ppb	2.03	50	109.4	90 - 110	
51	V	72	1	50.02	ppb	0.39	50	100.0	90 - 110	
52	Cr	72	1	49.29	ppb	0.21	50	98.6	90 - 110	
55	Mn	72	1	50.20	ppb	1.17	50	100.4	90 - 110	
59	Co	72	1	50.80	ppb	1.96	50	101.6	90 - 110	
60	Ni	72	1	48.71	ppb	1.32	50	97.4	90 - 110	
63	Cu	72	1	48.32	ppb	0.86	50	96.6	90 - 110	
66	Zn	72	1	48.33	ppb	1.01	50	96.7	90 - 110	
75	As	72	1	50.72	ppb	1.06	50	101.4	90 - 110	
78	Se	72	1	53.94	ppb	2.44	50	107.9	90 - 110	
95	Mo	72	1	50.56	ppb	1.17	50	101.1	90 - 110	
107	Ag	115	1	49.73	ppb	1.10	50	99.5	90 - 110	
111	Cd	115	1	49.50	ppb	1.37	50	99.0	90 - 110	
118	Sn	115	1	48.47	ppb	1.24	50	96.9	90 - 110	
121	Sb	115	1	48.81	ppb	0.98	50	97.6	90 - 110	
137	Ba	115	1	51.52	ppb	1.29	50	103.0	90 - 110	
205	Tl	165	1	50.00	ppb	0.95	50	100.0	90 - 110	
208	Pb	165	1	48.29	ppb	0.54	50	96.6	90 - 110	
232	Th	165	1	49.50	ppb	2.31	50	99.0	90 - 110	
238	U	165	1	48.34	ppb	0.47	50	96.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	403482	0.29	619221	65.2	30 - 120	
45	Sc	1	2485582	0.63	2917438	85.2	30 - 120	
72	Ge	1	1532211	1.18	1732493	88.4	30 - 120	
115	In	1	4393844	0.86	4820582	91.1	30 - 120	
165	Ho	1	8545776	0.65	9792536	87.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\149_CCB.D\149_CCB.D#
Date Acquired: Nov 2 2011 01:09 am
Operator: TEL
Sample Name: CCB-1103571
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.013	ppb	0.65	1.00	
51	V	72	1	-0.002	ppb	465.60	1.00	
52	Cr	72	1	-0.015	ppb	62.81	1.00	
55	Mn	72	1	0.026	ppb	27.57	1.00	
59	Co	72	1	0.008	ppb	21.57	1.00	
60	Ni	72	1	-0.062	ppb	15.07	1.00	
63	Cu	72	1	0.024	ppb	10.15	1.00	
66	Zn	72	1	0.066	ppb	18.25	1.00	
75	As	72	1	0.015	ppb	72.09	1.00	
78	Se	72	1	0.339	ppb	23.87	1.00	
95	Mo	72	1	0.011	ppb	39.35	1.00	
107	Ag	115	1	0.010	ppb	9.25	1.00	
111	Cd	115	1	0.013	ppb	31.77	1.00	
118	Sn	115	1	0.035	ppb	34.70	1.00	
121	Sb	115	1	0.019	ppb	10.01	1.00	
137	Ba	115	1	0.013	ppb	33.75	1.00	
205	Tl	165	1	0.025	ppb	3.80	1.00	
208	Pb	165	1	0.013	ppb	3.98	1.00	
232	Th	165	1	0.042	ppb	8.58	1.00	
238	U	165	1	0.012	ppb	2.58	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	405626	0.50	619221	65.5	30 - 120	
45	Sc	1	2522094	1.28	2917438	86.4	30 - 120	
72	Ge	1	1530591	1.26	1732493	88.3	30 - 120	
115	In	1	4459719	0.61	4820582	92.5	30 - 120	
165	Ho	1	8464477	0.61	9792536	86.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\150WASH.D\150WASH.D#
Date Acquired: Nov 2 2011 01:12 am
Operator: TEL
Sample Name: LLICV-1103572
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.170 ppb	3.89	1.30	
51	V	72	1	4.885 ppb	0.47	6.50	
52	Cr	72	1	2.103 ppb	1.95	2.60	
55	Mn	72	1	1.149 ppb	1.31	1.30	
59	Co	72	1	1.048 ppb	2.04	1.30	
60	Ni	72	1	2.025 ppb	2.03	2.60	
63	Cu	72	1	2.116 ppb	1.44	2.60	
66	Zn	72	1	10.010 ppb	0.47	13.00	
75	As	72	1	5.145 ppb	1.01	6.50	
78	Se	72	1	5.844 ppb	2.04	6.50	
95	Mo	72	1	2.133 ppb	1.68	2.60	
107	Ag	115	1	4.944 ppb	2.29	6.50	
111	Cd	115	1	1.033 ppb	2.47	1.30	
118	Sn	115	1	9.890 ppb	0.34	13.00	
121	Sb	115	1	2.025 ppb	0.97	2.60	
137	Ba	115	1	1.105 ppb	1.97	1.30	
205	Tl	165	1	1.065 ppb	1.05	1.30	
208	Pb	165	1	1.037 ppb	0.94	1.30	
232	Th	165	1	1.996 ppb	1.03	2.60	
238	U	165	1	1.009 ppb	0.73	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	406456	0.51	619221	65.6	30 - 120	
45	Sc	1	2527184	0.98	2917438	86.6	30 - 120	
72	Ge	1	1542041	1.32	1732493	89.0	30 - 120	
115	In	1	4433044	1.29	4820582	92.0	30 - 120	
165	Ho	1	8600805	0.40	9792536	87.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\151SMPL.D\151SMPL.D#
Date Acquired: Nov 2 2011 01:15 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-b-63-a
Misc Info:
Vial Number: 3412
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.28	0.28	ppb	3.42	3600	
51	V	72	1	16.88	16.88	ppb	0.95	3600	
52	Cr	72	1	8.10	8.10	ppb	1.80	3600	
55	Mn	72	1	255.60	255.60	ppb	0.33	18000	
59	Co	72	1	2.67	2.67	ppb	0.41	3600	
60	Ni	72	1	4.33	4.33	ppb	2.26	3600	
63	Cu	72	1	4.94	4.94	ppb	0.66	3600	
66	Zn	72	1	15.43	15.43	ppb	1.16	3600	
75	As	72	1	3.98	3.98	ppb	1.51	3600	
78	Se	72	1	1.32	1.32	ppb	33.18	3600	
95	Mo	72	1	0.39	0.39	ppb	5.12	3600	
107	Ag	115	1	0.03	0.03	ppb	10.57	3600	
111	Cd	115	1	0.09	0.09	ppb	32.07	3600	
118	Sn	115	1	0.12	0.12	ppb	16.33	3600	
121	Sb	115	1	0.03	0.03	ppb	11.19	3600	
137	Ba	115	1	10.44	10.44	ppb	1.61	3600	
205	Tl	165	1	0.12	0.12	ppb	0.08	3600	
208	Pb	165	1	8.20	8.20	ppb	0.16	3600	
232	Th	165	1	6.93	6.93	ppb	1.29	1000	
238	U	165	1	1.54	1.54	ppb	0.71	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	405529	0.09	619221	65.5	30 - 120	
45	Sc	1	2508922	1.23	2917438	86.0	30 - 120	
72	Ge	1	1525335	0.76	1732493	88.0	30 - 120	
115	In	1	4450088	1.65	4820582	92.3	30 - 120	
165	Ho	1	8539059	0.32	9792536	87.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\152SMPL.D\152SMPL.D#
Date Acquired: Nov 2 2011 01:18 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-b-64-a
Misc Info:
Vial Number: 3501
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	20.38	3600	
51	V	72	1	13.75	13.75	ppb	1.44	3600	
52	Cr	72	1	7.16	7.16	ppb	0.70	3600	
55	Mn	72	1	207.00	207.00	ppb	0.97	18000	
59	Co	72	1	3.23	3.23	ppb	1.17	3600	
60	Ni	72	1	4.93	4.93	ppb	2.28	3600	
63	Cu	72	1	5.02	5.02	ppb	1.94	3600	
66	Zn	72	1	14.96	14.96	ppb	0.53	3600	
75	As	72	1	4.15	4.15	ppb	1.69	3600	
78	Se	72	1	1.37	1.37	ppb	15.56	3600	
95	Mo	72	1	0.37	0.37	ppb	6.33	3600	
107	Ag	115	1	0.02	0.02	ppb	24.51	3600	
111	Cd	115	1	0.09	0.09	ppb	13.40	3600	
118	Sn	115	1	0.06	0.06	ppb	11.75	3600	
121	Sb	115	1	0.02	0.02	ppb	13.69	3600	
137	Ba	115	1	11.89	11.89	ppb	2.62	3600	
205	Tl	165	1	0.15	0.15	ppb	2.06	3600	
208	Pb	165	1	7.09	7.09	ppb	1.47	3600	
232	Th	165	1	5.83	5.83	ppb	1.55	1000	
238	U	165	1	0.95	0.95	ppb	0.35	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	409918	0.31	619221	66.2	30 - 120	
45	Sc	1	2536774	1.01	2917438	87.0	30 - 120	
72	Ge	1	1531148	1.38	1732493	88.4	30 - 120	
115	In	1	4468828	1.54	4820582	92.7	30 - 120	
165	Ho	1	8571041	1.24	9792536	87.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\153SMPL.D\153SMPL.D#
Date Acquired:	Nov 2 2011 01:21 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-65-a
Misc Info:	
Vial Number:	3502
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.58	0.58	ppb	27.54	3600	
51	V	72	1	24.55	24.55	ppb	1.08	3600	
52	Cr	72	1	14.65	14.65	ppb	0.75	3600	
55	Mn	72	1	645.30	645.30	ppb	0.98	18000	
59	Co	72	1	5.73	5.73	ppb	1.06	3600	
60	Ni	72	1	8.09	8.09	ppb	1.19	3600	
63	Cu	72	1	10.98	10.98	ppb	0.44	3600	
66	Zn	72	1	26.98	26.98	ppb	0.67	3600	
75	As	72	1	5.26	5.26	ppb	1.13	3600	
78	Se	72	1	1.20	1.20	ppb	18.19	3600	
95	Mo	72	1	0.57	0.57	ppb	3.52	3600	
107	Ag	115	1	0.03	0.03	ppb	9.81	3600	
111	Cd	115	1	0.15	0.15	ppb	5.48	3600	
118	Sn	115	1	0.15	0.15	ppb	5.80	3600	
121	Sb	115	1	0.04	0.04	ppb	6.02	3600	
137	Ba	115	1	23.10	23.10	ppb	1.74	3600	
205	Tl	165	1	0.23	0.23	ppb	1.92	3600	
208	Pb	165	1	16.40	16.40	ppb	0.72	3600	
232	Th	165	1	5.90	5.90	ppb	0.51	1000	
238	U	165	1	1.48	1.48	ppb	0.39	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	404511	0.66	619221	65.3	30 - 120	
45	Sc	1	2530470	1.29	2917438	86.7	30 - 120	
72	Ge	1	1522885	0.75	1732493	87.9	30 - 120	
115	In	1	4404866	0.45	4820582	91.4	30 - 120	
165	Ho	1	8552049	0.51	9792536	87.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\154SMPL.D\154SMPL.D#
Date Acquired: Nov 2 2011 01:24 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-66-a
Misc Info:
Vial Number: 3503
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.52	0.52	ppb	12.64	3600	
51	V	72	1	15.38	15.38	ppb	0.95	3600	
52	Cr	72	1	9.12	9.12	ppb	0.26	3600	
55	Mn	72	1	273.10	273.10	ppb	0.21	18000	
59	Co	72	1	6.71	6.71	ppb	0.70	3600	
60	Ni	72	1	7.31	7.31	ppb	1.38	3600	
63	Cu	72	1	8.08	8.08	ppb	0.33	3600	
66	Zn	72	1	20.78	20.78	ppb	0.90	3600	
75	As	72	1	6.20	6.20	ppb	1.04	3600	
78	Se	72	1	1.29	1.29	ppb	34.83	3600	
95	Mo	72	1	0.45	0.45	ppb	4.71	3600	
107	Ag	115	1	0.02	0.02	ppb	10.18	3600	
111	Cd	115	1	0.11	0.11	ppb	21.21	3600	
118	Sn	115	1	0.09	0.09	ppb	8.19	3600	
121	Sb	115	1	0.03	0.03	ppb	2.36	3600	
137	Ba	115	1	13.20	13.20	ppb	0.89	3600	
205	Tl	165	1	0.22	0.22	ppb	0.27	3600	
208	Pb	165	1	6.60	6.60	ppb	1.29	3600	
232	Th	165	1	6.29	6.29	ppb	0.36	1000	
238	U	165	1	1.29	1.29	ppb	0.72	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	406494	0.53	619221	65.6	30 - 120	
45	Sc	1	2542310	0.58	2917438	87.1	30 - 120	
72	Ge	1	1531092	0.48	1732493	88.4	30 - 120	
115	In	1	4421383	0.22	4820582	91.7	30 - 120	
165	Ho	1	8583402	0.82	9792536	87.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\155SMPL.D\155SMPL.D#
Date Acquired: Nov 2 2011 01:27 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-b-67-a
Misc Info:
Vial Number: 3504
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.23	0.23	ppb	23.52	3600	
51	V	72	1	12.70	12.70	ppb	0.71	3600	
52	Cr	72	1	5.88	5.88	ppb	0.68	3600	
55	Mn	72	1	165.40	165.40	ppb	1.53	18000	
59	Co	72	1	2.74	2.74	ppb	1.66	3600	
60	Ni	72	1	3.42	3.42	ppb	1.51	3600	
63	Cu	72	1	4.46	4.46	ppb	1.71	3600	
66	Zn	72	1	13.66	13.66	ppb	1.34	3600	
75	As	72	1	3.14	3.14	ppb	1.53	3600	
78	Se	72	1	0.87	0.87	ppb	17.49	3600	
95	Mo	72	1	0.37	0.37	ppb	5.89	3600	
107	Ag	115	1	0.04	0.04	ppb	7.68	3600	
111	Cd	115	1	0.06	0.06	ppb	26.67	3600	
118	Sn	115	1	0.11	0.11	ppb	9.84	3600	
121	Sb	115	1	0.03	0.03	ppb	8.05	3600	
137	Ba	115	1	8.21	8.21	ppb	0.87	3600	
205	Tl	165	1	0.09	0.09	ppb	3.44	3600	
208	Pb	165	1	12.78	12.78	ppb	1.43	3600	
232	Th	165	1	4.64	4.64	ppb	2.21	1000	
238	U	165	1	0.79	0.79	ppb	1.74	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	406485	0.77	619221	65.6	30 - 120	
45	Sc	1	2539744	1.07	2917438	87.1	30 - 120	
72	Ge	1	1530371	1.12	1732493	88.3	30 - 120	
115	In	1	4448257	0.68	4820582	92.3	30 - 120	
165	Ho	1	8611925	1.46	9792536	87.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\156SMPL.D\156SMPL.D#
Date Acquired:	Nov 2 2011 01:30 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-68-a
Misc Info:	
Vial Number:	3505
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.40	0.40	ppb	10.79	3600	
51	V	72	1	13.11	13.11	ppb	1.88	3600	
52	Cr	72	1	7.36	7.36	ppb	0.76	3600	
55	Mn	72	1	290.90	290.90	ppb	1.86	18000	
59	Co	72	1	4.48	4.48	ppb	1.74	3600	
60	Ni	72	1	5.40	5.40	ppb	1.46	3600	
63	Cu	72	1	5.37	5.37	ppb	0.94	3600	
66	Zn	72	1	16.31	16.31	ppb	0.92	3600	
75	As	72	1	4.37	4.37	ppb	2.87	3600	
78	Se	72	1	1.09	1.09	ppb	23.66	3600	
95	Mo	72	1	0.35	0.35	ppb	3.44	3600	
107	Ag	115	1	0.03	0.03	ppb	10.94	3600	
111	Cd	115	1	0.07	0.07	ppb	15.20	3600	
118	Sn	115	1	0.11	0.11	ppb	8.04	3600	
121	Sb	115	1	0.03	0.03	ppb	16.59	3600	
137	Ba	115	1	10.51	10.51	ppb	1.51	3600	
205	Tl	165	1	0.12	0.12	ppb	2.38	3600	
208	Pb	165	1	7.66	7.66	ppb	0.27	3600	
232	Th	165	1	8.96	8.96	ppb	0.45	1000	
238	U	165	1	1.04	1.04	ppb	1.17	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	407104	0.40	619221	65.7	30 - 120	
45	Sc	1	2530050	1.74	2917438	86.7	30 - 120	
72	Ge	1	1540384	0.89	1732493	88.9	30 - 120	
115	In	1	4465914	1.25	4820582	92.6	30 - 120	
165	Ho	1	8514549	0.93	9792536	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\157SMPL.D\157SMPL.D#
Date Acquired: Nov 2 2011 01:33 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-b-69-a
Misc Info:
Vial Number: 3506
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.43	0.43	ppb	20.66	3600	
51	V	72	1	17.47	17.47	ppb	2.36	3600	
52	Cr	72	1	9.64	9.64	ppb	3.10	3600	
55	Mn	72	1	390.20	390.20	ppb	2.10	18000	
59	Co	72	1	3.79	3.79	ppb	1.61	3600	
60	Ni	72	1	7.11	7.11	ppb	1.99	3600	
63	Cu	72	1	6.00	6.00	ppb	2.58	3600	
66	Zn	72	1	30.13	30.13	ppb	1.73	3600	
75	As	72	1	5.24	5.24	ppb	2.89	3600	
78	Se	72	1	1.75	1.75	ppb	18.72	3600	
95	Mo	72	1	0.73	0.73	ppb	3.01	3600	
107	Ag	115	1	0.03	0.03	ppb	1.98	3600	
111	Cd	115	1	0.10	0.10	ppb	6.90	3600	
118	Sn	115	1	0.09	0.09	ppb	6.32	3600	
121	Sb	115	1	0.03	0.03	ppb	4.43	3600	
137	Ba	115	1	15.64	15.64	ppb	0.78	3600	
205	Tl	165	1	0.19	0.19	ppb	1.26	3600	
208	Pb	165	1	11.25	11.25	ppb	1.05	3600	
232	Th	165	1	6.99	6.99	ppb	1.74	1000	
238	U	165	1	1.22	1.22	ppb	0.38	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	403783	0.33	619221	65.2	30 - 120	
45	Sc	1	2498711	0.67	2917438	85.6	30 - 120	
72	Ge	1	1517511	1.51	1732493	87.6	30 - 120	
115	In	1	4362442	0.33	4820582	90.5	30 - 120	
165	Ho	1	8454727	0.63	9792536	86.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\158SMPL.D\158SMPL.D#
Date Acquired: Nov 2 2011 01:36 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-b-70-a
Misc Info:
Vial Number: 3507
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	27.23	3600	
51	V	72	1	16.39	16.39	ppb	0.95	3600	
52	Cr	72	1	9.83	9.83	ppb	0.73	3600	
55	Mn	72	1	126.90	126.90	ppb	0.76	18000	
59	Co	72	1	2.08	2.08	ppb	1.73	3600	
60	Ni	72	1	5.37	5.37	ppb	0.88	3600	
63	Cu	72	1	3.82	3.82	ppb	2.93	3600	
66	Zn	72	1	14.33	14.33	ppb	0.40	3600	
75	As	72	1	3.75	3.75	ppb	1.77	3600	
78	Se	72	1	1.60	1.60	ppb	12.76	3600	
95	Mo	72	1	0.42	0.42	ppb	1.53	3600	
107	Ag	115	1	0.05	0.05	ppb	12.73	3600	
111	Cd	115	1	0.08	0.08	ppb	4.71	3600	
118	Sn	115	1	0.09	0.09	ppb	13.02	3600	
121	Sb	115	1	0.03	0.03	ppb	8.22	3600	
137	Ba	115	1	11.17	11.17	ppb	1.75	3600	
205	Tl	165	1	0.11	0.11	ppb	1.42	3600	
208	Pb	165	1	13.01	13.01	ppb	0.61	3600	
232	Th	165	1	7.32	7.32	ppb	1.99	1000	
238	U	165	1	1.11	1.11	ppb	1.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	401788	0.19	619221	64.9	30 - 120	
45	Sc	1	2502755	1.57	2917438	85.8	30 - 120	
72	Ge	1	1525488	0.56	1732493	88.1	30 - 120	
115	In	1	4359657	0.07	4820582	90.4	30 - 120	
165	Ho	1	8534997	0.48	9792536	87.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\159_CCV.D\159_CCV.D#
Date Acquired:	Nov 2 2011 01:39 am
Operator:	TEL
Sample Name:	CCV-1103570
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	56.01	ppb	0.52	50	112.0	90 - 110	Fail
51	V	72	1	50.40	ppb	1.34	50	100.8	90 - 110	
52	Cr	72	1	49.52	ppb	1.13	50	99.0	90 - 110	
55	Mn	72	1	50.83	ppb	1.09	50	101.7	90 - 110	
59	Co	72	1	50.68	ppb	0.95	50	101.4	90 - 110	
60	Ni	72	1	48.75	ppb	1.48	50	97.5	90 - 110	
63	Cu	72	1	48.84	ppb	1.72	50	97.7	90 - 110	
66	Zn	72	1	48.79	ppb	0.45	50	97.6	90 - 110	
75	As	72	1	51.18	ppb	0.36	50	102.4	90 - 110	
78	Se	72	1	53.12	ppb	1.56	50	106.2	90 - 110	
95	Mo	72	1	50.85	ppb	0.98	50	101.7	90 - 110	
107	Ag	115	1	50.37	ppb	0.94	50	100.7	90 - 110	
111	Cd	115	1	49.27	ppb	0.84	50	98.5	90 - 110	
118	Sn	115	1	48.08	ppb	0.99	50	96.2	90 - 110	
121	Sb	115	1	48.65	ppb	0.17	50	97.3	90 - 110	
137	Ba	115	1	51.25	ppb	1.28	50	102.5	90 - 110	
205	Tl	165	1	50.77	ppb	1.33	50	101.5	90 - 110	
208	Pb	165	1	48.77	ppb	0.82	50	97.5	90 - 110	
232	Th	165	1	50.15	ppb	0.88	50	100.3	90 - 110	
238	U	165	1	48.64	ppb	0.82	50	97.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	393557	1.69	619221	63.6	30 - 120	
45	Sc	1	2458235	1.01	2917438	84.3	30 - 120	
72	Ge	1	1503900	0.21	1732493	86.8	30 - 120	
115	In	1	4365405	0.37	4820582	90.6	30 - 120	
165	Ho	1	8446834	0.63	9792536	86.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\160_CCB.D\160_CCB.D#
Date Acquired: Nov 2 2011 01:42 am
Operator: TEL
Sample Name: CCB-1103571
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.002	ppb	487.76	1.00	
51	V	72	1	-0.002	ppb	335.83	1.00	
52	Cr	72	1	-0.015	ppb	107.18	1.00	
55	Mn	72	1	0.040	ppb	39.08	1.00	
59	Co	72	1	0.007	ppb	39.88	1.00	
60	Ni	72	1	-0.065	ppb	6.48	1.00	
63	Cu	72	1	0.021	ppb	57.27	1.00	
66	Zn	72	1	0.065	ppb	8.88	1.00	
75	As	72	1	0.010	ppb	91.80	1.00	
78	Se	72	1	-0.056	ppb	702.64	1.00	
95	Mo	72	1	0.006	ppb	60.34	1.00	
107	Ag	115	1	0.011	ppb	6.53	1.00	
111	Cd	115	1	0.010	ppb	46.26	1.00	
118	Sn	115	1	0.045	ppb	57.36	1.00	
121	Sb	115	1	0.015	ppb	2.97	1.00	
137	Ba	115	1	0.008	ppb	32.05	1.00	
205	Tl	165	1	0.019	ppb	1.85	1.00	
208	Pb	165	1	0.012	ppb	2.03	1.00	
232	Th	165	1	0.039	ppb	1.98	1.00	
238	U	165	1	0.012	ppb	5.30	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	396001	0.71	619221	64.0	30 - 120	
45	Sc	1	2472600	0.30	2917438	84.8	30 - 120	
72	Ge	1	1532250	0.44	1732493	88.4	30 - 120	
115	In	1	4384764	0.20	4820582	91.0	30 - 120	
165	Ho	1	8406293	0.45	9792536	85.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\161WASH.D\161WASH.D#
Date Acquired: Nov 2 2011 01:45 am
Operator: TEL
Sample Name: LLICV-1103572
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.300 ppb	6.93	1.30	
51	V	72	1	4.851 ppb	1.02	6.50	
52	Cr	72	1	2.060 ppb	2.79	2.60	
55	Mn	72	1	1.164 ppb	1.21	1.30	
59	Co	72	1	1.041 ppb	2.59	1.30	
60	Ni	72	1	2.084 ppb	1.61	2.60	
63	Cu	72	1	2.156 ppb	0.96	2.60	
66	Zn	72	1	10.000 ppb	1.40	13.00	
75	As	72	1	5.190 ppb	0.28	6.50	
78	Se	72	1	5.044 ppb	7.45	6.50	
95	Mo	72	1	2.165 ppb	2.33	2.60	
107	Ag	115	1	4.857 ppb	1.30	6.50	
111	Cd	115	1	1.028 ppb	4.14	1.30	
118	Sn	115	1	9.694 ppb	1.04	13.00	
121	Sb	115	1	2.008 ppb	1.05	2.60	
137	Ba	115	1	1.083 ppb	1.37	1.30	
205	Tl	165	1	1.054 ppb	0.45	1.30	
208	Pb	165	1	1.030 ppb	0.16	1.30	
232	Th	165	1	2.003 ppb	0.58	2.60	
238	U	165	1	1.008 ppb	0.25	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	395758	0.24	619221	63.9	30 - 120	
45	Sc	1	2473725	0.48	2917438	84.8	30 - 120	
72	Ge	1	1525241	0.15	1732493	88.0	30 - 120	
115	In	1	4437632	1.22	4820582	92.1	30 - 120	
165	Ho	1	8535852	0.68	9792536	87.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\162SMPL.D\162SMPL.D#
Date Acquired:	Nov 2 2011 01:47 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-71-a
Misc Info:	
Vial Number:	3508
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	15.33	3600	
51	V	72	1	17.54	17.54	ppb	2.32	3600	
52	Cr	72	1	10.25	10.25	ppb	1.74	3600	
55	Mn	72	1	193.70	193.70	ppb	1.11	18000	
59	Co	72	1	2.64	2.64	ppb	1.00	3600	
60	Ni	72	1	5.91	5.91	ppb	1.86	3600	
63	Cu	72	1	4.39	4.39	ppb	2.97	3600	
66	Zn	72	1	16.60	16.60	ppb	1.29	3600	
75	As	72	1	4.17	4.17	ppb	0.19	3600	
78	Se	72	1	1.28	1.28	ppb	9.70	3600	
95	Mo	72	1	0.47	0.47	ppb	7.37	3600	
107	Ag	115	1	0.04	0.04	ppb	7.95	3600	
111	Cd	115	1	0.09	0.09	ppb	21.58	3600	
118	Sn	115	1	0.09	0.09	ppb	21.84	3600	
121	Sb	115	1	0.02	0.02	ppb	12.51	3600	
137	Ba	115	1	12.85	12.85	ppb	0.98	3600	
205	Tl	165	1	0.15	0.15	ppb	1.82	3600	
208	Pb	165	1	13.30	13.30	ppb	1.42	3600	
232	Th	165	1	11.54	11.54	ppb	2.28	1000	
238	U	165	1	1.22	1.22	ppb	1.69	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	394943	0.84	619221	63.8	30 - 120	
45	Sc	1	2484089	0.86	2917438	85.1	30 - 120	
72	Ge	1	1505686	0.66	1732493	86.9	30 - 120	
115	In	1	4394622	0.56	4820582	91.2	30 - 120	
165	Ho	1	8475619	0.76	9792536	86.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\163SMPL.D\163SMPL.D#
Date Acquired: Nov 2 2011 01:50 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-b-72-a
Misc Info:
Vial Number: 3509
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.36	0.36	ppb	10.12	3600	
51	V	72	1	23.16	23.16	ppb	0.34	3600	
52	Cr	72	1	12.17	12.17	ppb	0.88	3600	
55	Mn	72	1	110.40	110.40	ppb	0.62	18000	
59	Co	72	1	2.62	2.62	ppb	0.79	3600	
60	Ni	72	1	7.31	7.31	ppb	0.58	3600	
63	Cu	72	1	4.56	4.56	ppb	0.84	3600	
66	Zn	72	1	20.12	20.12	ppb	0.62	3600	
75	As	72	1	5.25	5.25	ppb	1.87	3600	
78	Se	72	1	1.76	1.76	ppb	9.71	3600	
95	Mo	72	1	0.59	0.59	ppb	7.81	3600	
107	Ag	115	1	0.04	0.04	ppb	13.08	3600	
111	Cd	115	1	0.09	0.09	ppb	2.55	3600	
118	Sn	115	1	0.09	0.09	ppb	9.77	3600	
121	Sb	115	1	0.03	0.03	ppb	8.52	3600	
137	Ba	115	1	15.62	15.62	ppb	1.14	3600	
205	Tl	165	1	0.13	0.13	ppb	0.41	3600	
208	Pb	165	1	16.12	16.12	ppb	0.15	3600	
232	Th	165	1	8.30	8.30	ppb	1.05	1000	
238	U	165	1	1.22	1.22	ppb	0.84	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	397789	0.27	619221	64.2	30 - 120	
45	Sc	1	2502498	1.12	2917438	85.8	30 - 120	
72	Ge	1	1506615	0.80	1732493	87.0	30 - 120	
115	In	1	4417815	0.61	4820582	91.6	30 - 120	
165	Ho	1	8514996	0.14	9792536	87.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\164SMPL.D\164SMPL.D#
Date Acquired:	Nov 2 2011 01:53 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-73-a
Misc Info:	
Vial Number:	3510
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.26	0.26	ppb	21.57	3600	
51	V	72	1	16.61	16.61	ppb	2.09	3600	
52	Cr	72	1	9.71	9.71	ppb	1.63	3600	
55	Mn	72	1	58.25	58.25	ppb	2.21	18000	
59	Co	72	1	1.94	1.94	ppb	0.19	3600	
60	Ni	72	1	6.52	6.52	ppb	0.95	3600	
63	Cu	72	1	2.58	2.58	ppb	1.25	3600	
66	Zn	72	1	14.57	14.57	ppb	0.17	3600	
75	As	72	1	3.69	3.69	ppb	1.33	3600	
78	Se	72	1	1.42	1.42	ppb	32.49	3600	
95	Mo	72	1	0.41	0.41	ppb	1.89	3600	
107	Ag	115	1	0.04	0.04	ppb	9.62	3600	
111	Cd	115	1	0.06	0.06	ppb	18.28	3600	
118	Sn	115	1	0.10	0.10	ppb	2.61	3600	
121	Sb	115	1	0.02	0.02	ppb	16.81	3600	
137	Ba	115	1	9.99	9.99	ppb	1.62	3600	
205	Tl	165	1	0.10	0.10	ppb	4.59	3600	
208	Pb	165	1	7.30	7.30	ppb	1.06	3600	
232	Th	165	1	8.06	8.06	ppb	0.75	1000	
238	U	165	1	1.06	1.06	ppb	1.27	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	400625	1.31	619221	64.7	30 - 120	
45	Sc	1	2490752	2.00	2917438	85.4	30 - 120	
72	Ge	1	1518243	0.70	1732493	87.6	30 - 120	
115	In	1	4390934	2.22	4820582	91.1	30 - 120	
165	Ho	1	8472280	0.62	9792536	86.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\165SMPL.D\165SMPL.D#
Date Acquired:	Nov 2 2011 01:56 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-77-a
Misc Info:	
Vial Number:	3511
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.43	0.43	ppb	22.19	3600	
51	V	72	1	15.60	15.60	ppb	1.61	3600	
52	Cr	72	1	8.18	8.18	ppb	1.40	3600	
55	Mn	72	1	99.56	99.56	ppb	0.49	18000	
59	Co	72	1	0.96	0.96	ppb	2.54	3600	
60	Ni	72	1	3.52	3.52	ppb	0.66	3600	
63	Cu	72	1	2.81	2.81	ppb	2.41	3600	
66	Zn	72	1	19.38	19.38	ppb	1.65	3600	
75	As	72	1	3.68	3.68	ppb	0.98	3600	
78	Se	72	1	1.65	1.65	ppb	8.08	3600	
95	Mo	72	1	0.32	0.32	ppb	4.15	3600	
107	Ag	115	1	0.03	0.03	ppb	24.22	3600	
111	Cd	115	1	0.12	0.12	ppb	5.41	3600	
118	Sn	115	1	0.05	0.05	ppb	24.01	3600	
121	Sb	115	1	0.04	0.04	ppb	0.83	3600	
137	Ba	115	1	27.67	27.67	ppb	2.08	3600	
205	Tl	165	1	0.09	0.09	ppb	3.70	3600	
208	Pb	165	1	15.05	15.05	ppb	0.98	3600	
232	Th	165	1	11.99	11.99	ppb	1.75	1000	
238	U	165	1	1.60	1.60	ppb	1.46	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	398283	1.11	619221	64.3	30 - 120	
45	Sc	1	2528163	0.39	2917438	86.7	30 - 120	
72	Ge	1	1508463	0.77	1732493	87.1	30 - 120	
115	In	1	4396168	1.95	4820582	91.2	30 - 120	
165	Ho	1	8588173	0.80	9792536	87.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\166SMPL.D\166SMPL.D#
Date Acquired:	Nov 2 2011 01:59 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-a-78-a
Misc Info:	
Vial Number:	3512
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.50	0.50	ppb	8.54	3600	
51	V	72	1	16.14	16.14	ppb	2.22	3600	
52	Cr	72	1	9.64	9.64	ppb	1.30	3600	
55	Mn	72	1	88.50	88.50	ppb	2.38	18000	
59	Co	72	1	1.15	1.15	ppb	2.25	3600	
60	Ni	72	1	4.12	4.12	ppb	3.06	3600	
63	Cu	72	1	2.38	2.38	ppb	2.07	3600	
66	Zn	72	1	18.68	18.68	ppb	1.03	3600	
75	As	72	1	3.90	3.90	ppb	1.17	3600	
78	Se	72	1	1.95	1.95	ppb	14.26	3600	
95	Mo	72	1	0.28	0.28	ppb	9.92	3600	
107	Ag	115	1	0.03	0.03	ppb	8.34	3600	
111	Cd	115	1	0.10	0.10	ppb	11.15	3600	
118	Sn	115	1	0.08	0.08	ppb	12.81	3600	
121	Sb	115	1	0.03	0.03	ppb	13.57	3600	
137	Ba	115	1	33.19	33.19	ppb	0.67	3600	
205	Tl	165	1	0.13	0.13	ppb	3.49	3600	
208	Pb	165	1	9.08	9.08	ppb	0.45	3600	
232	Th	165	1	13.44	13.44	ppb	0.67	1000	
238	U	165	1	1.90	1.90	ppb	0.59	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	401934	0.11	619221	64.9	30 - 120	
45	Sc	1	2524486	0.84	2917438	86.5	30 - 120	
72	Ge	1	1523924	0.58	1732493	88.0	30 - 120	
115	In	1	4400021	1.25	4820582	91.3	30 - 120	
165	Ho	1	8541290	1.12	9792536	87.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\167SMPL.D\167SMPL.D#
Date Acquired:	Nov 2 2011 02:02 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21683-b-79-a
Misc Info:	
Vial Number:	4101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	15.16	3600	
51	V	72	1	14.18	14.18	ppb	0.56	3600	
52	Cr	72	1	6.85	6.85	ppb	1.11	3600	
55	Mn	72	1	127.90	127.90	ppb	1.74	18000	
59	Co	72	1	0.78	0.78	ppb	3.41	3600	
60	Ni	72	1	2.71	2.71	ppb	1.41	3600	
63	Cu	72	1	1.97	1.97	ppb	1.03	3600	
66	Zn	72	1	14.72	14.72	ppb	1.44	3600	
75	As	72	1	3.24	3.24	ppb	0.56	3600	
78	Se	72	1	0.88	0.88	ppb	11.27	3600	
95	Mo	72	1	0.39	0.39	ppb	1.70	3600	
107	Ag	115	1	0.04	0.04	ppb	10.23	3600	
111	Cd	115	1	0.09	0.09	ppb	14.20	3600	
118	Sn	115	1	0.04	0.04	ppb	22.00	3600	
121	Sb	115	1	0.02	0.02	ppb	10.31	3600	
137	Ba	115	1	14.11	14.11	ppb	0.26	3600	
205	Tl	165	1	0.10	0.10	ppb	3.90	3600	
208	Pb	165	1	27.57	27.57	ppb	0.54	3600	
232	Th	165	1	9.71	9.71	ppb	0.66	1000	
238	U	165	1	1.44	1.44	ppb	0.61	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	400539	0.99	619221	64.7	30 - 120	
45	Sc	1	2525480	0.74	2917438	86.6	30 - 120	
72	Ge	1	1549677	0.85	1732493	89.4	30 - 120	
115	In	1	4431506	0.72	4820582	91.9	30 - 120	
165	Ho	1	8585905	0.10	9792536	87.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\168SMPL.D\168SMPL.D#
Date Acquired: Nov 2 2011 02:05 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21683-a-80-a
Misc Info:
Vial Number: 4102
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 01 2011 06:09 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.71	0.71	ppb	13.08	3600	
51	V	72	1	14.88	14.88	ppb	1.37	3600	
52	Cr	72	1	8.24	8.24	ppb	1.54	3600	
55	Mn	72	1	129.70	129.70	ppb	1.99	18000	
59	Co	72	1	1.06	1.06	ppb	1.96	3600	
60	Ni	72	1	3.75	3.75	ppb	1.73	3600	
63	Cu	72	1	1.74	1.74	ppb	2.33	3600	
66	Zn	72	1	15.54	15.54	ppb	1.37	3600	
75	As	72	1	3.29	3.29	ppb	1.39	3600	
78	Se	72	1	1.78	1.78	ppb	25.00	3600	
95	Mo	72	1	0.26	0.26	ppb	5.46	3600	
107	Ag	115	1	0.03	0.03	ppb	8.55	3600	
111	Cd	115	1	0.10	0.10	ppb	21.28	3600	
118	Sn	115	1	0.05	0.05	ppb	23.24	3600	
121	Sb	115	1	0.02	0.02	ppb	4.36	3600	
137	Ba	115	1	23.09	23.09	ppb	1.11	3600	
205	Tl	165	1	0.09	0.09	ppb	3.45	3600	
208	Pb	165	1	9.65	9.65	ppb	0.74	3600	
232	Th	165	1	11.98	11.98	ppb	0.52	1000	
238	U	165	1	1.77	1.77	ppb	0.24	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	396933	2.18	619221	64.1	30 - 120	
45	Sc	1	2531745	1.78	2917438	86.8	30 - 120	
72	Ge	1	1538195	1.47	1732493	88.8	30 - 120	
115	In	1	4426429	0.99	4820582	91.8	30 - 120	
165	Ho	1	8628089	0.37	9792536	88.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\169_CCV.D\169_CCV.D#
Date Acquired:	Nov 2 2011 02:08 am
Operator:	TEL
Sample Name:	CCV-1103570
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	55.52	ppb	0.75	50	111.0	90 - 110	Fail
51	V	72	1	51.07	ppb	1.31	50	102.1	90 - 110	
52	Cr	72	1	49.45	ppb	0.83	50	98.9	90 - 110	
55	Mn	72	1	50.13	ppb	1.44	50	100.3	90 - 110	
59	Co	72	1	50.12	ppb	0.42	50	100.2	90 - 110	
60	Ni	72	1	48.40	ppb	0.66	50	96.8	90 - 110	
63	Cu	72	1	48.42	ppb	0.69	50	96.8	90 - 110	
66	Zn	72	1	48.27	ppb	0.25	50	96.5	90 - 110	
75	As	72	1	50.96	ppb	0.48	50	101.9	90 - 110	
78	Se	72	1	51.92	ppb	2.39	50	103.8	90 - 110	
95	Mo	72	1	50.55	ppb	1.40	50	101.1	90 - 110	
107	Ag	115	1	50.15	ppb	0.50	50	100.3	90 - 110	
111	Cd	115	1	48.82	ppb	0.64	50	97.6	90 - 110	
118	Sn	115	1	48.19	ppb	0.56	50	96.4	90 - 110	
121	Sb	115	1	48.28	ppb	0.45	50	96.6	90 - 110	
137	Ba	115	1	51.35	ppb	0.29	50	102.7	90 - 110	
205	Tl	165	1	50.18	ppb	0.39	50	100.4	90 - 110	
208	Pb	165	1	48.37	ppb	0.66	50	96.7	90 - 110	
232	Th	165	1	49.85	ppb	0.90	50	99.7	90 - 110	
238	U	165	1	48.31	ppb	1.34	50	96.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	398381	0.72	619221	64.3	30 - 120	
45	Sc	1	2532758	0.79	2917438	86.8	30 - 120	
72	Ge	1	1539158	0.60	1732493	88.8	30 - 120	
115	In	1	4453602	0.50	4820582	92.4	30 - 120	
165	Ho	1	8546357	0.75	9792536	87.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\170_CCB.D\170_CCB.D#
Date Acquired: Nov 2 2011 02:11 am
Operator: TEL
Sample Name: CCB-1103571
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.020	ppb	205.79	1.00	
51	V	72	1	-0.011	ppb	151.37	1.00	
52	Cr	72	1	-0.019	ppb	40.49	1.00	
55	Mn	72	1	0.034	ppb	35.52	1.00	
59	Co	72	1	0.006	ppb	30.70	1.00	
60	Ni	72	1	-0.069	ppb	9.08	1.00	
63	Cu	72	1	0.021	ppb	43.79	1.00	
66	Zn	72	1	0.076	ppb	14.88	1.00	
75	As	72	1	0.017	ppb	28.55	1.00	
78	Se	72	1	0.353	ppb	35.20	1.00	
95	Mo	72	1	0.008	ppb	176.88	1.00	
107	Ag	115	1	0.010	ppb	16.46	1.00	
111	Cd	115	1	0.005	ppb	98.23	1.00	
118	Sn	115	1	0.035	ppb	29.81	1.00	
121	Sb	115	1	0.015	ppb	4.78	1.00	
137	Ba	115	1	0.011	ppb	24.29	1.00	
205	Tl	165	1	0.019	ppb	11.97	1.00	
208	Pb	165	1	0.013	ppb	5.15	1.00	
232	Th	165	1	0.043	ppb	4.07	1.00	
238	U	165	1	0.011	ppb	15.07	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	392692	0.60	619221	63.4	30 - 120	
45	Sc	1	2497279	0.51	2917438	85.6	30 - 120	
72	Ge	1	1517383	1.08	1732493	87.6	30 - 120	
115	In	1	4457428	1.56	4820582	92.5	30 - 120	
165	Ho	1	8427142	0.58	9792536	86.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\171WASH.D\171WASH.D#
Date Acquired:	Nov 2 2011 02:14 am
Operator:	TEL
Sample Name:	LLICV-1103572
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.079	ppb	20.40	1.30	
51	V	72	1	4.909	ppb	0.46	6.50	
52	Cr	72	1	2.110	ppb	0.65	2.60	
55	Mn	72	1	1.194	ppb	2.03	1.30	
59	Co	72	1	1.060	ppb	2.31	1.30	
60	Ni	72	1	2.051	ppb	1.06	2.60	
63	Cu	72	1	2.114	ppb	1.92	2.60	
66	Zn	72	1	10.050	ppb	1.01	13.00	
75	As	72	1	5.182	ppb	1.68	6.50	
78	Se	72	1	5.571	ppb	4.63	6.50	
95	Mo	72	1	2.102	ppb	2.18	2.60	
107	Ag	115	1	4.915	ppb	2.19	6.50	
111	Cd	115	1	1.054	ppb	8.60	1.30	
118	Sn	115	1	9.722	ppb	1.65	13.00	
121	Sb	115	1	1.995	ppb	1.46	2.60	
137	Ba	115	1	1.097	ppb	2.45	1.30	
205	Tl	165	1	1.066	ppb	1.43	1.30	
208	Pb	165	1	1.035	ppb	1.56	1.30	
232	Th	165	1	2.010	ppb	1.28	2.60	
238	U	165	1	1.011	ppb	0.23	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	396703	0.80	619221	64.1	30 - 120	
45	Sc	1	2502746	1.34	2917438	85.8	30 - 120	
72	Ge	1	1517286	1.06	1732493	87.6	30 - 120	
115	In	1	4440045	0.68	4820582	92.1	30 - 120	
165	Ho	1	8473004	0.66	9792536	86.5	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\172WASH.D\172WASH.D#
Date Acquired: Nov 2 2011 02:17 am
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.010 ppb	119.33	1.30	
51	V	72	1	0.161 ppb	19.25	6.50	
52	Cr	72	1	1.177 ppb	3.85	2.60	
55	Mn	72	1	0.523 ppb	1.04	1.30	
59	Co	72	1	0.065 ppb	2.58	1.30	
60	Ni	72	1	0.979 ppb	2.23	2.60	
63	Cu	72	1	0.448 ppb	2.77	2.60	
66	Zn	72	1	7.247 ppb	2.25	13.00	
75	As	72	1	0.556 ppb	6.40	6.50	
78	Se	72	1	0.461 ppb	8.43	6.50	
95	Mo	72	1	2215.000 ppb	1.46	2.60	
107	Ag	115	1	0.074 ppb	4.62	6.50	
111	Cd	115	1	0.718 ppb	13.94	1.30	
118	Sn	115	1	0.189 ppb	10.11	13.00	
121	Sb	115	1	0.300 ppb	0.48	2.60	
137	Ba	115	1	0.228 ppb	6.26	1.30	
205	Tl	165	1	0.067 ppb	20.27	1.30	
208	Pb	165	1	0.162 ppb	1.95	1.30	
232	Th	165	1	0.048 ppb	7.17	2.60	
238	U	165	1	0.021 ppb	3.48	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	334977	1.76	619221	54.1	30 - 120	
45	Sc	1	2058370	1.23	2917438	70.6	30 - 120	
72	Ge	1	1225157	0.33	1732493	70.7	30 - 120	
115	In	1	3552760	0.87	4820582	73.7	30 - 120	
165	Ho	1	7232083	0.29	9792536	73.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\173WASH.D\173WASH.D#
Date Acquired: Nov 2 2011 02:20 am
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.002	ppb	477.29	1.30	
51	V	72	1	-0.002	ppb	441.72	6.50	
52	Cr	72	1	-0.029	ppb	18.11	2.60	
55	Mn	72	1	0.025	ppb	60.61	1.30	
59	Co	72	1	0.002	ppb	55.68	1.30	
60	Ni	72	1	-0.086	ppb	0.70	2.60	
63	Cu	72	1	0.004	ppb	37.04	2.60	
66	Zn	72	1	0.002	ppb	599.68	13.00	
75	As	72	1	0.010	ppb	34.68	6.50	
78	Se	72	1	0.537	ppb	86.10	6.50	
95	Mo	72	1	0.382	ppb	8.26	2.60	
107	Ag	115	1	0.002	ppb	68.32	6.50	
111	Cd	115	1	0.008	ppb	35.04	1.30	
118	Sn	115	1	0.001	ppb	1135.30	13.00	
121	Sb	115	1	0.003	ppb	28.25	2.60	
137	Ba	115	1	0.001	ppb	321.34	1.30	
205	Tl	165	1	0.005	ppb	4.91	1.30	
208	Pb	165	1	0.004	ppb	10.43	1.30	
232	Th	165	1	0.006	ppb	9.43	2.60	
238	U	165	1	0.002	ppb	17.26	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	394492	0.58	619221	63.7	30 - 120	
45	Sc	1	2434980	0.67	2917438	83.5	30 - 120	
72	Ge	1	1501529	0.61	1732493	86.7	30 - 120	
115	In	1	4449277	1.58	4820582	92.3	30 - 120	
165	Ho	1	8489038	0.95	9792536	86.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\174WASH.D\174WASH.D#
Date Acquired:	Nov 2 2011 02:23 am
Operator:	TEL
Sample Name:	RINSE
Misc Info:	
Vial Number:	3
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 01 2011 06:09 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.002 ppb	497.38	1.30	
51	V	72	1	-0.022 ppb	87.23	6.50	
52	Cr	72	1	-0.025 ppb	18.76	2.60	
55	Mn	72	1	0.021 ppb	43.53	1.30	
59	Co	72	1	0.003 ppb	28.80	1.30	
60	Ni	72	1	-0.082 ppb	2.34	2.60	
63	Cu	72	1	0.001 ppb	1120.00	2.60	
66	Zn	72	1	0.004 ppb	165.36	13.00	
75	As	72	1	0.001 ppb	830.84	6.50	
78	Se	72	1	0.245 ppb	106.81	6.50	
95	Mo	72	1	0.106 ppb	6.50	2.60	
107	Ag	115	1	0.001 ppb	34.70	6.50	
111	Cd	115	1	0.002 ppb	160.46	1.30	
118	Sn	115	1	-0.006 ppb	73.20	13.00	
121	Sb	115	1	0.002 ppb	20.66	2.60	
137	Ba	115	1	0.006 ppb	8.34	1.30	
205	Tl	165	1	0.001 ppb	39.17	1.30	
208	Pb	165	1	0.003 ppb	35.62	1.30	
232	Th	165	1	0.007 ppb	12.19	2.60	
238	U	165	1	0.002 ppb	20.72	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	399069	0.46	619221	64.4	30 - 120	
45	Sc	1	2477984	1.43	2917438	84.9	30 - 120	
72	Ge	1	1528728	0.13	1732493	88.2	30 - 120	
115	In	1	4447166	1.16	4820582	92.3	30 - 120	
165	Ho	1	8635839	1.27	9792536	88.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\175WASH.D\175WASH.D#
Date Acquired: Nov 2 2011 02:25 am
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.004	ppb	0.00	1.30	
51	V	72	1	-0.010	ppb	232.60	6.50	
52	Cr	72	1	-0.030	ppb	14.91	2.60	
55	Mn	72	1	0.022	ppb	11.16	1.30	
59	Co	72	1	0.001	ppb	172.81	1.30	
60	Ni	72	1	-0.077	ppb	5.72	2.60	
63	Cu	72	1	0.005	ppb	134.18	2.60	
66	Zn	72	1	0.007	ppb	159.59	13.00	
75	As	72	1	0.009	ppb	49.30	6.50	
78	Se	72	1	0.373	ppb	125.56	6.50	
95	Mo	72	1	0.048	ppb	9.40	2.60	
107	Ag	115	1	0.001	ppb	91.23	6.50	
111	Cd	115	1	0.006	ppb	66.93	1.30	
118	Sn	115	1	-0.009	ppb	38.43	13.00	
121	Sb	115	1	0.002	ppb	48.12	2.60	
137	Ba	115	1	0.003	ppb	126.54	1.30	
205	Tl	165	1	0.001	ppb	15.77	1.30	
208	Pb	165	1	0.002	ppb	43.00	1.30	
232	Th	165	1	0.005	ppb	22.75	2.60	
238	U	165	1	0.001	ppb	19.65	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	402334	0.94	619221	65.0	30 - 120	
45	Sc	1	2496212	0.82	2917438	85.6	30 - 120	
72	Ge	1	1523342	1.37	1732493	87.9	30 - 120	
115	In	1	4476427	0.15	4820582	92.9	30 - 120	
165	Ho	1	8511334	0.22	9792536	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\176WASH.D\176WASH.D#
Date Acquired: Nov 2 2011 02:28 am
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 01 2011 06:09 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.013	ppb	127.95	1.30	
51	V	72	1	-0.012	ppb	152.18	6.50	
52	Cr	72	1	-0.030	ppb	27.93	2.60	
55	Mn	72	1	0.027	ppb	24.71	1.30	
59	Co	72	1	0.000	ppb	474.46	1.30	
60	Ni	72	1	-0.086	ppb	8.39	2.60	
63	Cu	72	1	0.001	ppb	1002.80	2.60	
66	Zn	72	1	0.002	ppb	609.26	13.00	
75	As	72	1	0.005	ppb	58.11	6.50	
78	Se	72	1	0.272	ppb	86.09	6.50	
95	Mo	72	1	0.028	ppb	36.71	2.60	
107	Ag	115	1	0.001	ppb	60.20	6.50	
111	Cd	115	1	0.004	ppb	65.08	1.30	
118	Sn	115	1	-0.009	ppb	24.31	13.00	
121	Sb	115	1	0.001	ppb	66.89	2.60	
137	Ba	115	1	0.001	ppb	249.44	1.30	
205	Tl	165	1	0.001	ppb	51.61	1.30	
208	Pb	165	1	0.002	ppb	19.97	1.30	
232	Th	165	1	0.005	ppb	8.56	2.60	
238	U	165	1	0.002	ppb	12.00	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	402729	0.55	619221	65.0	30 - 120	
45	Sc	1	2492783	0.62	2917438	85.4	30 - 120	
72	Ge	1	1521438	0.86	1732493	87.8	30 - 120	
115	In	1	4482564	0.42	4820582	93.0	30 - 120	
165	Ho	1	8576286	0.25	9792536	87.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\177CALB.D\177CALB.D#
Date Acquired:	Nov 2 2011 02:31 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	Cal Blank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 01 2011 06:09 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	17	68.33
51	V	72	1	512	90.18
52	Cr	72	1	7129	1.58
55	Mn	72	1	3521	3.67
59	Co	72	1	337	12.03
60	Ni	72	1	463	6.84
63	Cu	72	1	1403	11.27
66	Zn	72	1	887	5.54
75	As	72	1	135	15.65
78	Se	72	1	467	20.84
95	Mo	72	1	313	6.11
107	Ag	115	1	127	23.93
111	Cd	115	1	45	31.78
118	Sn	115	1	747	18.83
121	Sb	115	1	112	23.29
137	Ba	115	1	122	7.72
205	Tl	165	1	388	3.92
208	Pb	165	1	1163	0.34
232	Th	165	1	737	3.38
238	U	165	1	542	15.52

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	403416	0.92
45	Sc	1	2482034	0.51
72	Ge	1	1525687	1.42
115	In	1	4521835	0.93
165	Ho	1	8503895	0.60

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\178CALB.D\178CALB.D#
Date Acquired:	Nov 2 2011 02:34 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1103571
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 02:32 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	10	0.80
51	V	72	1	413	73.61
52	Cr	72	1	7195	7.80
55	Mn	72	1	3537	6.35
59	Co	72	1	143	53.33
60	Ni	72	1	800	6.88
63	Cu	72	1	1097	5.19
66	Zn	72	1	741	4.76
75	As	72	1	109	7.04
78	Se	72	1	560	12.34
95	Mo	72	1	253	18.21
107	Ag	115	1	53	75.87
111	Cd	115	1	22	18.66
118	Sn	115	1	673	8.69
121	Sb	115	1	61	22.54
137	Ba	115	1	198	14.86
205	Tl	165	1	159	20.68
208	Pb	165	1	934	3.48
232	Th	165	1	433	16.25
238	U	165	1	134	32.35

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	403110	0.80
45	Sc	1	2501880	1.13
72	Ge	1	1523650	0.51
115	In	1	4479748	0.55
165	Ho	1	8609742	0.90

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110111.B\179ICAL.D\179ICAL.D#
Date Acquired:	Nov 2 2011 02:37 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1103560
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 02:35 am
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	64339	1.59
51	V	72	1	2178641	2.23
52	Cr	72	1	2285777	1.69
55	Mn	72	1	2085654	2.50
59	Co	72	1	3238546	1.93
60	Ni	72	1	779893	0.93
63	Cu	72	1	1931503	0.50
66	Zn	72	1	320572	1.03
75	As	72	1	235826	0.86
78	Se	72	1	35197	3.40
95	Mo	72	1	915491	0.86
107	Ag	115	1	2831472	0.62
111	Cd	115	1	466794	1.16
118	Sn	115	1	1273742	1.93
121	Sb	115	1	1368569	0.84
137	Ba	115	1	574040	1.78
205	Tl	165	1	4975764	0.76
208	Pb	165	1	6914417	0.75
232	Th	165	1	6693508	1.36
238	U	165	1	7113618	1.13

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	398604	1.07	403110	98.9	30 - 120	
45	Sc	1	2425525	0.67	2501880	96.9	30 - 120	
72	Ge	1	1482342	0.83	1523650	97.3	30 - 120	
115	In	1	4379041	1.31	4479748	97.8	30 - 120	
165	Ho	1	8479884	1.05	8609742	98.5	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\178CALB.D\178CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\180_CCV.D\180_CCV.D#
Date Acquired: Nov 2 2011 02:40 am
Operator: TEL
Sample Name: CCV-1103570
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 02:38 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.30	ppb	2.29	50	100.6	90 - 110	
51	V	72	1	50.37	ppb	0.38	50	100.7	90 - 110	
52	Cr	72	1	50.37	ppb	1.74	50	100.7	90 - 110	
55	Mn	72	1	49.80	ppb	1.68	50	99.6	90 - 110	
59	Co	72	1	50.69	ppb	0.89	50	101.4	90 - 110	
60	Ni	72	1	49.49	ppb	1.05	50	99.0	90 - 110	
63	Cu	72	1	48.55	ppb	1.24	50	97.1	90 - 110	
66	Zn	72	1	50.16	ppb	0.52	50	100.3	90 - 110	
75	As	72	1	50.02	ppb	0.38	50	100.0	90 - 110	
78	Se	72	1	51.22	ppb	3.06	50	102.4	90 - 110	
95	Mo	72	1	49.74	ppb	0.38	50	99.5	90 - 110	
107	Ag	115	1	51.04	ppb	2.27	50	102.1	90 - 110	
111	Cd	115	1	49.65	ppb	0.61	50	99.3	90 - 110	
118	Sn	115	1	47.65	ppb	0.81	50	95.3	90 - 110	
121	Sb	115	1	47.91	ppb	0.17	50	95.8	90 - 110	
137	Ba	115	1	49.85	ppb	0.35	50	99.7	90 - 110	
205	Tl	165	1	51.24	ppb	1.07	50	102.5	90 - 110	
208	Pb	165	1	49.64	ppb	0.68	50	99.3	90 - 110	
232	Th	165	1	50.63	ppb	0.45	50	101.3	90 - 110	
238	U	165	1	51.32	ppb	1.24	50	102.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	394989	0.68	403110	98.0	30 - 120	
45	Sc	1	2429658	0.55	2501880	97.1	30 - 120	
72	Ge	1	1472488	0.28	1523650	96.6	30 - 120	
115	In	1	4366973	0.73	4479748	97.5	30 - 120	
165	Ho	1	8434207	0.44	8609742	98.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\178CALB.D\178CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\181_CCB.D\181_CCB.D#
Date Acquired: Nov 2 2011 02:43 am
Operator: TEL
Sample Name: CCB-1103571
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 02:38 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.006	ppb	327.60	1.00	
51	V	72	1	0.019	ppb	27.99	1.00	
52	Cr	72	1	0.000	ppb	1149.30	1.00	
55	Mn	72	1	0.009	ppb	169.07	1.00	
59	Co	72	1	0.008	ppb	47.72	1.00	
60	Ni	72	1	-0.047	ppb	12.63	1.00	
63	Cu	72	1	0.021	ppb	37.11	1.00	
66	Zn	72	1	0.058	ppb	18.85	1.00	
75	As	72	1	0.017	ppb	11.46	1.00	
78	Se	72	1	-0.105	ppb	84.62	1.00	
95	Mo	72	1	0.006	ppb	82.16	1.00	
107	Ag	115	1	0.011	ppb	12.01	1.00	
111	Cd	115	1	0.006	ppb	18.30	1.00	
118	Sn	115	1	0.068	ppb	12.60	1.00	
121	Sb	115	1	0.021	ppb	11.85	1.00	
137	Ba	115	1	-0.005	ppb	150.06	1.00	
205	Tl	165	1	0.027	ppb	15.12	1.00	
208	Pb	165	1	0.011	ppb	6.24	1.00	
232	Th	165	1	0.051	ppb	3.27	1.00	
238	U	165	1	0.014	ppb	3.29	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	396175	0.42	403110	98.3	30 - 120	
45	Sc	1	2401225	1.71	2501880	96.0	30 - 120	
72	Ge	1	1487831	1.02	1523650	97.6	30 - 120	
115	In	1	4351081	0.85	4479748	97.1	30 - 120	
165	Ho	1	8460831	0.30	8609742	98.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\178CALB.D\178CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110111.B\182WASH.D\182WASH.D#
Date Acquired: Nov 2 2011 02:46 am
Operator: TEL
Sample Name: LLICV-1103572
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 02:38 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.059 ppb	12.41	1.30	
51	V	72	1	4.880 ppb	0.46	6.50	
52	Cr	72	1	2.151 ppb	0.43	2.60	
55	Mn	72	1	1.152 ppb	2.31	1.30	
59	Co	72	1	1.056 ppb	1.84	1.30	
60	Ni	72	1	2.141 ppb	3.26	2.60	
63	Cu	72	1	2.119 ppb	3.04	2.60	
66	Zn	72	1	10.200 ppb	0.38	13.00	
75	As	72	1	5.019 ppb	2.13	6.50	
78	Se	72	1	4.722 ppb	14.45	6.50	
95	Mo	72	1	2.054 ppb	1.39	2.60	
107	Ag	115	1	5.092 ppb	1.75	6.50	
111	Cd	115	1	1.075 ppb	3.65	1.30	
118	Sn	115	1	9.739 ppb	0.65	13.00	
121	Sb	115	1	1.959 ppb	2.03	2.60	
137	Ba	115	1	1.033 ppb	3.11	1.30	
205	Tl	165	1	1.085 ppb	1.92	1.30	
208	Pb	165	1	1.060 ppb	0.62	1.30	
232	Th	165	1	2.054 ppb	1.81	2.60	
238	U	165	1	1.066 ppb	1.20	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	394215	0.52	403110	97.8	30 - 120	
45	Sc	1	2416143	0.68	2501880	96.6	30 - 120	
72	Ge	1	1482549	0.99	1523650	97.3	30 - 120	
115	In	1	4366970	0.67	4479748	97.5	30 - 120	
165	Ho	1	8417166	0.48	8609742	97.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110111.B\178CALB.D\178CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

94330 – 6020 Water
94332 – Soil

TestAmerica Denver TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

ICP/MS Technical Data Review Checklist

Lab Project ID Number(s): see attached cover sheet Check Method/SOP Used: 6020/DV-MT-0018 200.8/DV-MT-0002

Review Items	--- Level 1 --- Yes	No	N/A	Level 2	Comments & Samples Affected
Tune					
1. Tune solution analyzed min. of 4 times for 6020 or 5 times for 200.8?	✓			✓	
2. Tune RSD <5%?	✓			✓	
2. Resolution ≤ 0.9 AMU full width at 10% peak height? **NOTE**: This also satisfies 200.8, 1.0 AMU at 5% peak height	✓			✓	
Initial Calibration					
1. Done with a minimum of 3 integrations of a high standard and blank?	✓			✓	
2. ICV/CCV run at beginning of run, 10% frequency, and end of run? Results with 10% of expected value?	✓			✓	
3. ICB/CCB run at beginning of run, 10% frequency, and end of run? Results +/- RL	✓			✓	
4. ICSA/AB analyzed at beginning of run and every 12 hours and results 80- 120% of TV?	✓			✓	
5. RL Std analyzed at beginning of run and results +/- 50% of TV(for AFCEE 4.0, DoD V3 +/- 20% of true value)?	✓			✓	
Client Samples & QC Sample Results					
1. Were all samples within linear range, ≤ 90% of LDR for 200.8?	✓			✓	
2. Dilutions due to target elements? ✓ Dilutions for other reasons? ___	✓			✓	
3. All reported results bracketed by in control QC?	✓			✓	
4. All 6020 internal standards for all analyses 30-120% of intensities in blank or all 200.8 internal standards 60-125%?	✓			✓	
5. Was a 5X serial dilution analyzed for 6020 and, if so, are results ± 10% of original result, if original ≥ 100x MDL?	✓			✓	
6. LCS included in batch and within QC limits?	✓			✓	
7. Method blank included and <1/2RL?	✓			✓	
8. MS and MSD included in batch?	✓			✓	
9. PDS analyzed and recovery 75-125%?	✓			✓	
10. Manual calculations documented properly and checked?	✓			✓	
11. Are non-conformances documented on an NCM?	✓			✓	
12. Is the appropriate raw data included?	✓			✓	
13. Are all results manually entered into LIMS verified? Are all electronic data files archived to the appropriate network locations?	✓			✓	
14. Were special client requirements met?	✓				

1st Level Reviewer: ____________ Date: 11/2/11

2nd Level Reviewer: ____________ Date: 11/2/11

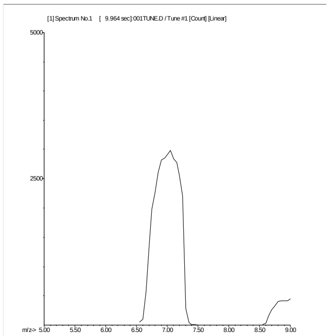
L:\QA\Edit\FORMS\Data Review\ICPMS

Rev. 2, 6/12/08

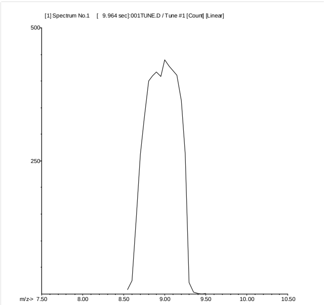
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\001TUNE.D
Date Acquired: Nov 2 2011 09:54 pm
Acq. Method: tun_isis.M
Operator: LRD
Sample Name: ITUNE-1074574
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

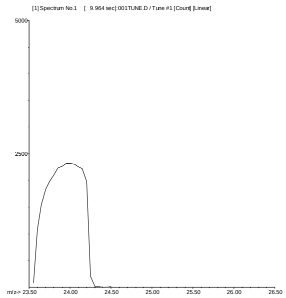
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	**%RSD**	Required	Flag
7 Li	31183	31320	31106	31150	31336	31006	**0.45**	5.00	
9 Be	4753	4649	4746	4802	4776	4790	**1.29**	5.00	
24 Mg	26672	26909	26841	26541	26677	26390	**0.80**	5.00	
59 Co	216476	209329	220029	217772	215560	219693	**2.02**	5.00	
115 In	2667228	2690454	2619476	2668787	2674219	2683202	**1.05**	5.00	
208 Pb	183699	180756	185213	185138	185580	181808	**1.22**	5.00	
238 U	336681	328913	332544	339920	341638	340391	**1.67**	5.00	



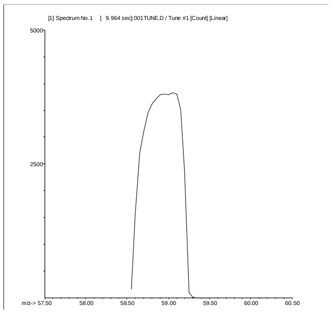
7 Li
Mass Calib.
Actual: 7.00
Required:6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



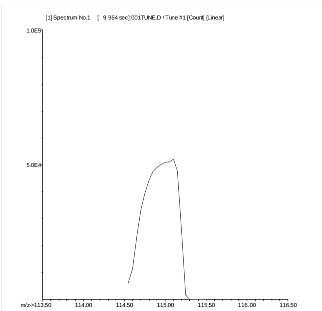
9 Be
Mass Calib.
Actual: 9.00
Required:8.90 - 9.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



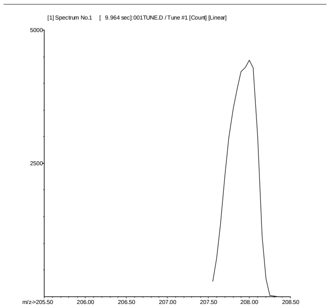
24 Mg
Mass Calib.
Actual: 24.00
Required:23.90 - 24.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



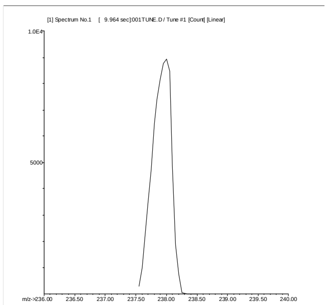
59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



208 Pb
Mass Calib.
Actual: 207.95
Required: 207.90 - 208.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



238 U
Mass Calib.
Actual: 237.95
Required: 237.90 - 238.10
Flag:
Peak Width
Actual: 0.50
Required: 0.90
Flag:

Tune Result: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#
Date Acquired:	Nov 2 2011 10:00 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1103571
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 09:57 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	3	173.21
51	V	72	1	481	29.95
52	Cr	72	1	7282	3.34
55	Mn	72	1	1277	8.30
59	Co	72	1	70	37.80
60	Ni	72	1	220	0.00
63	Cu	72	1	840	6.30
66	Zn	72	1	368	5.24
75	As	72	1	110	1.82
78	Se	72	1	380	14.65
95	Mo	72	1	33	75.50
107	Ag	115	1	17	69.28
111	Cd	115	1	17	106.73
118	Sn	115	1	180	11.11
121	Sb	115	1	28	30.20
137	Ba	115	1	50	23.09
205	Tl	165	1	101	26.65
208	Pb	165	1	693	1.92
232	Th	165	1	267	7.81
238	U	165	1	62	24.16

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	536694	0.28
45	Sc	1	2857458	0.82
72	Ge	1	1703453	0.49
115	In	1	4777220	1.31
165	Ho	1	9746194	0.69

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\004ICAL.D\004ICAL.D#
Date Acquired:	Nov 2 2011 10:02 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1103560
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:00 pm
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	78652	1.53
51	V	72	1	2394572	1.38
52	Cr	72	1	2542131	1.02
55	Mn	72	1	2215921	2.08
59	Co	72	1	3465731	1.83
60	Ni	72	1	827550	0.61
63	Cu	72	1	2097194	1.66
66	Zn	72	1	354639	0.73
75	As	72	1	250095	0.69
78	Se	72	1	37128	0.61
95	Mo	72	1	967967	1.40
107	Ag	115	1	3013874	0.22
111	Cd	115	1	492726	0.78
118	Sn	115	1	1291966	0.64
121	Sb	115	1	1432802	0.23
137	Ba	115	1	570630	0.41
205	Tl	165	1	5428626	0.47
208	Pb	165	1	7498684	0.38
232	Th	165	1	7415673	1.70
238	U	165	1	8110375	1.34

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	543345	0.84	536694	101.2	30 - 120	
45	Sc	1	2885934	0.55	2857458	101.0	30 - 120	
72	Ge	1	1712361	0.90	1703453	100.5	30 - 120	
115	In	1	4778765	0.04	4777220	100.0	30 - 120	
165	Ho	1	9821440	1.46	9746194	100.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Initial Calibration Verification (ICV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\005_ICV.D\005_ICV.D#
Date Acquired:	Nov 2 2011 10:05 pm
Operator:	LRD
Sample Name:	ICV-1103561
Misc Info:	
Vial Number:	2103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	ICV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.03	ppb	0.27	40	100.1	90 - 110	
51	V	72	1	40.60	ppb	2.91	40	101.5	90 - 110	
52	Cr	72	1	41.26	ppb	0.78	40	103.2	90 - 110	
55	Mn	72	1	40.99	ppb	3.16	40	102.5	90 - 110	
59	Co	72	1	41.91	ppb	0.50	40	104.8	90 - 110	
60	Ni	72	1	41.47	ppb	0.94	40	103.7	90 - 110	
63	Cu	72	1	39.42	ppb	1.07	40	98.6	90 - 110	
66	Zn	72	1	39.79	ppb	0.83	40	99.5	90 - 110	
75	As	72	1	40.81	ppb	1.47	40	102.0	90 - 110	
78	Se	72	1	40.14	ppb	2.70	40	100.4	90 - 110	
95	Mo	72	1	40.45	ppb	1.22	40	101.1	90 - 110	
107	Ag	115	1	40.90	ppb	1.32	40	102.3	90 - 110	
111	Cd	115	1	40.30	ppb	0.79	40	100.8	90 - 110	
118	Sn	115	1	38.78	ppb	1.63	40	97.0	90 - 110	
121	Sb	115	1	37.96	ppb	0.54	40	94.9	90 - 110	
137	Ba	115	1	40.64	ppb	0.91	40	101.6	90 - 110	
205	Tl	165	1	40.49	ppb	0.94	40	101.2	90 - 110	
208	Pb	165	1	40.69	ppb	1.18	40	101.7	90 - 110	
232	Th	165	1	41.22	ppb	2.11	40	103.1	90 - 110	
238	U	165	1	39.78	ppb	1.22	40	99.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	542810	0.66	536694	101.1	30 - 120	
45	Sc	1	2867511	1.38	2857458	100.4	30 - 120	
72	Ge	1	1691767	0.29	1703453	99.3	30 - 120	
115	In	1	4772530	0.32	4777220	99.9	30 - 120	
165	Ho	1	9818140	1.24	9746194	100.7	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\006WASH.D\006WASH.D#
Date Acquired:	Nov 2 2011 10:08 pm
Operator:	LRD
Sample Name:	LLICV-1103572
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.172	ppb	10.94	1.30	
51	V	72	1	4.872	ppb	0.82	6.50	
52	Cr	72	1	2.173	ppb	2.65	2.60	
55	Mn	72	1	1.204	ppb	0.61	1.30	
59	Co	72	1	1.071	ppb	3.62	1.30	
60	Ni	72	1	2.281	ppb	3.96	2.60	
63	Cu	72	1	2.185	ppb	3.51	2.60	
66	Zn	72	1	10.300	ppb	0.94	13.00	
75	As	72	1	5.091	ppb	1.90	6.50	
78	Se	72	1	5.665	ppb	5.08	6.50	
95	Mo	72	1	2.099	ppb	3.61	2.60	
107	Ag	115	1	5.052	ppb	0.80	6.50	
111	Cd	115	1	1.087	ppb	2.27	1.30	
118	Sn	115	1	9.704	ppb	0.66	13.00	
121	Sb	115	1	2.108	ppb	0.67	2.60	
137	Ba	115	1	1.083	ppb	2.80	1.30	
205	Tl	165	1	1.164	ppb	1.03	1.30	
208	Pb	165	1	1.091	ppb	0.98	1.30	
232	Th	165	1	2.126	ppb	2.31	2.60	
238	U	165	1	1.072	ppb	1.42	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540486	1.06	536694	100.7	30 - 120	
45	Sc	1	2892833	1.09	2857458	101.2	30 - 120	
72	Ge	1	1707827	0.13	1703453	100.3	30 - 120	
115	In	1	4834113	1.21	4777220	101.2	30 - 120	
165	Ho	1	9764162	1.12	9746194	100.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\007_ICB.D\007_ICB.D#
Date Acquired: Nov 2 2011 10:11 pm
Operator: LRD
Sample Name: ICB-1103571
Misc Info:
Vial Number: 2104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: ICB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.01	ppb	1.55	1.00	
51	V	72	1	-0.02	ppb	40.73	1.00	
52	Cr	72	1	0.02	ppb	93.77	1.00	
55	Mn	72	1	0.06	ppb	6.77	1.00	
59	Co	72	1	0.00	ppb	28.45	1.00	
60	Ni	72	1	0.04	ppb	22.05	1.00	
63	Cu	72	1	0.13	ppb	3.12	1.00	
66	Zn	72	1	0.22	ppb	6.45	1.00	
75	As	72	1	0.00	ppb	214.41	1.00	
78	Se	72	1	-0.01	ppb	933.43	1.00	
95	Mo	72	1	0.01	ppb	22.22	1.00	
107	Ag	115	1	0.00	ppb	28.21	1.00	
111	Cd	115	1	0.01	ppb	6.95	1.00	
118	Sn	115	1	0.06	ppb	13.51	1.00	
121	Sb	115	1	0.05	ppb	9.64	1.00	
137	Ba	115	1	0.01	ppb	23.62	1.00	
205	Tl	165	1	0.03	ppb	1.59	1.00	
208	Pb	165	1	0.01	ppb	18.79	1.00	
232	Th	165	1	0.03	ppb	17.07	1.00	
238	U	165	1	0.00	ppb	13.92	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	544604	1.02	536694	101.5	30 - 120	
45	Sc	1	2905759	1.52	2857458	101.7	30 - 120	
72	Ge	1	1701595	0.42	1703453	99.9	30 - 120	
115	In	1	4785816	1.70	4777220	100.2	30 - 120	
165	Ho	1	9864577	0.50	9746194	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

RL STD QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\008RLST.D\008RLST.D#
Date Acquired: Nov 2 2011 10:14 pm
Operator: LRD
Sample Name: CRI-1103562
Misc Info:
Vial Number: 2105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: RLSTD
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	0.94	ppb	7.59	1	94.1	80 - 120	
51	V	72	1	0.95	ppb	4.56	1	94.8	80 - 120	
52	Cr	72	1	1.05	ppb	1.58	1	104.6	80 - 120	
55	Mn	72	1	0.99	ppb	0.94	1	99.2	80 - 120	
59	Co	72	1	1.02	ppb	1.86	1	102.0	80 - 120	
60	Ni	72	1	1.05	ppb	4.74	1	105.1	80 - 120	
63	Cu	72	1	1.00	ppb	4.07	1	99.8	80 - 120	
66	Zn	72	1	9.73	ppb	0.45	10	97.3	80 - 120	
75	As	72	1	0.97	ppb	1.23	1	97.2	80 - 120	
78	Se	72	1	1.14	ppb	38.32	1	114.4	80 - 120	
95	Mo	72	1	0.98	ppb	0.88	1	97.7	80 - 120	
107	Ag	115	1	0.96	ppb	0.53	1	95.6	80 - 120	
111	Cd	115	1	0.97	ppb	2.87	1	96.8	80 - 120	
118	Sn	115	1	9.71	ppb	2.12	10	97.1	80 - 120	
121	Sb	115	1	0.95	ppb	1.22	1	95.3	80 - 120	
137	Ba	115	1	1.01	ppb	0.20	1	100.8	80 - 120	
205	Tl	165	1	1.02	ppb	1.54	1	101.5	80 - 120	
208	Pb	165	1	0.97	ppb	1.81	1	96.9	80 - 120	
232	Th	165	1	0.99	ppb	2.52	1	98.7	80 - 120	
238	U	165	1	0.99	ppb	2.52	1	98.6	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540357	1.04	536694	100.7	30 - 120	
45	Sc	1	2899088	1.23	2857458	101.5	30 - 120	
72	Ge	1	1698176	0.85	1703453	99.7	30 - 120	
115	In	1	4864180	0.71	4777220	101.8	30 - 120	
165	Ho	1	9897462	1.65	9746194	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

AFCEE RL QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\009AFCE.D\009AFCE.D#
Date Acquired: Nov 2 2011 10:18 pm
Operator: LRD
Sample Name: AFCEE RL-1106815
Misc Info:
Vial Number: 2106
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: AFCEERL
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	0.24	ppb	8.84	0	125.7	80 - 120	
51	V	72	1	0.18	ppb	4.71	0	92.6	80 - 120	
52	Cr	72	1	0.22	ppb	7.06	0	104.2	80 - 120	
55	Mn	72	1	0.21	ppb	5.38	0	104.0	80 - 120	
59	Co	72	1	0.20	ppb	4.20	0	97.0	80 - 120	
60	Ni	72	1	0.21	ppb	6.07	0	102.0	80 - 120	
63	Cu	72	1	0.21	ppb	2.78	0	103.4	80 - 120	
66	Zn	72	1	1.93	ppb	0.52	2	99.4	80 - 120	
75	As	72	1	0.19	ppb	7.77	0	97.0	80 - 120	
78	Se	72	1	0.23	ppb	45.55	0	99.8	80 - 120	
95	Mo	72	1	0.21	ppb	6.96	0	106.7	80 - 120	
107	Ag	115	1	0.19	ppb	7.39	0	100.8	80 - 120	
111	Cd	115	1	0.20	ppb	7.15	0	103.7	80 - 120	
118	Sn	115	1	2.02	ppb	2.54	2	104.2	80 - 120	
121	Sb	115	1	0.20	ppb	1.54	0	106.7	80 - 120	
137	Ba	115	1	0.20	ppb	2.60	0	101.5	80 - 120	
205	Tl	165	1	0.20	ppb	2.51	0	100.2	80 - 120	
208	Pb	165	1	0.20	ppb	2.00	0	101.0	80 - 120	
232	Th	165	1	0.19	ppb	5.23	0	98.6	80 - 120	
238	U	165	1	0.20	ppb	1.64	0	100.0	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	535193	0.76	536694	99.7	30 - 120	
45	Sc	1	2897830	1.27	2857458	101.4	30 - 120	
72	Ge	1	1691307	0.53	1703453	99.3	30 - 120	
115	In	1	4805535	0.52	4777220	100.6	30 - 120	
165	Ho	1	9849339	1.81	9746194	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\010ICSA.D\010ICSA.D#
Date Acquired: Nov 2 2011 10:20 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: ICSA-1106817
Misc Info:
Vial Number: 2108
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: ICSA
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit ppb	Flag
9	Be	6	1	0.00	ppb	1272.20	1.00	
51	V	72	1	0.12	ppb	59.79	1.00	
52	Cr	72	1	1.13	ppb	1.01	1.00	
55	Mn	72	1	0.50	ppb	2.73	1.00	
59	Co	72	1	0.06	ppb	15.13	1.00	
60	Ni	72	1	0.84	ppb	5.42	1.00	
63	Cu	72	1	0.30	ppb	6.22	1.00	
66	Zn	72	1	2.41	ppb	2.26	10.00	
75	As	72	1	0.56	ppb	4.13	1.00	
78	Se	72	1	0.46	ppb	39.25	1.00	
95	Mo	72	1	2101.00	ppb	1.70	2000.00	
107	Ag	115	1	0.06	ppb	15.99	1.00	
111	Cd	115	1	0.54	ppb	4.11	1.00	
118	Sn	115	1	0.15	ppb	11.10	10.00	
121	Sb	115	1	0.28	ppb	3.08	1.00	
137	Ba	115	1	0.19	ppb	3.15	1.00	
205	Tl	165	1	0.05	ppb	35.85	1.00	
208	Pb	165	1	0.14	ppb	4.77	1.00	
232	Th	165	1	0.04	ppb	5.21	1.00	
238	U	165	1	0.00	ppb	19.45	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	466241	1.73	536694	86.9	30 - 120	
45	Sc	1	2413696	0.84	2857458	84.5	30 - 120	
72	Ge	1	1402668	0.69	1703453	82.3	30 - 120	
115	In	1	3917265	0.63	4777220	82.0	30 - 120	
165	Ho	1	8473974	0.36	9746194	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\011ICSB.D\011ICSB.D#
Date Acquired: Nov 2 2011 10:23 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: ICSAB-1106818
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9	Be	6	1	101.20	0.96	100	101.2	80 - 120	
51	V	72	1	103.10	0.36	100	103.1	80 - 120	
52	Cr	72	1	100.30	0.87	100	100.3	80 - 120	
55	Mn	72	1	99.86	0.41	100	99.9	80 - 120	
59	Co	72	1	98.96	0.85	100	99.0	80 - 120	
60	Ni	72	1	94.22	1.05	100	94.2	80 - 120	
63	Cu	72	1	91.68	1.38	100	91.7	80 - 120	
66	Zn	72	1	97.55	0.26	100	97.6	80 - 120	
75	As	72	1	103.90	0.58	100	103.9	80 - 120	
78	Se	72	1	107.20	0.43	100	107.2	80 - 120	
95	Mo	72	1	2226.00	0.43	2100	106.0	80 - 120	
107	Ag	115	1	87.77	4.80	100	87.8	80 - 120	
111	Cd	115	1	95.87	0.85	100	95.9	80 - 120	
118	Sn	115	1	98.63	0.41	100	98.6	80 - 120	
121	Sb	115	1	104.20	1.00	100	104.2	80 - 120	
137	Ba	115	1	105.00	0.88	100	105.0	80 - 120	
205	Tl	165	1	95.89	0.68	100	95.9	80 - 120	
208	Pb	165	1	94.09	1.05	100	94.1	80 - 120	
232	Th	165	1	104.00	1.42	100	104.0	80 - 120	
238	U	165	1	101.30	1.55	100	101.3	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	451793	0.39	536694	84.2	30 - 120	
45	Sc	1	2322265	1.68	2857458	81.3	30 - 120	
72	Ge	1	1361049	0.11	1703453	79.9	30 - 120	
115	In	1	3863507	1.18	4777220	80.9	30 - 120	
165	Ho	1	8346310	0.50	9746194	85.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\012WASH.D\012WASH.D#
Date Acquired: Nov 2 2011 10:26 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.005	ppb	157.55	1.30	
51	V	72	1	0.000	ppb	2819.40	6.50	
52	Cr	72	1	-0.007	ppb	61.84	2.60	
55	Mn	72	1	0.004	ppb	95.94	1.30	
59	Co	72	1	0.006	ppb	39.44	1.30	
60	Ni	72	1	0.002	ppb	343.77	2.60	
63	Cu	72	1	0.010	ppb	31.18	2.60	
66	Zn	72	1	-0.007	ppb	240.55	13.00	
75	As	72	1	0.013	ppb	101.67	6.50	
78	Se	72	1	-0.010	ppb	2039.80	6.50	
95	Mo	72	1	0.400	ppb	7.79	2.60	
107	Ag	115	1	0.010	ppb	30.39	6.50	
111	Cd	115	1	0.005	ppb	49.17	1.30	
118	Sn	115	1	0.025	ppb	31.67	13.00	
121	Sb	115	1	0.014	ppb	10.23	2.60	
137	Ba	115	1	0.006	ppb	20.47	1.30	
205	Tl	165	1	0.013	ppb	7.21	1.30	
208	Pb	165	1	0.006	ppb	11.28	1.30	
232	Th	165	1	0.024	ppb	6.29	2.60	
238	U	165	1	0.014	ppb	11.31	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	483489	0.49	536694	90.1	30 - 120	
45	Sc	1	2588154	0.36	2857458	90.6	30 - 120	
72	Ge	1	1583645	0.35	1703453	93.0	30 - 120	
115	In	1	4547874	0.48	4777220	95.2	30 - 120	
165	Ho	1	9370201	1.40	9746194	96.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\013WASH.D\013WASH.D#
Date Acquired: Nov 2 2011 10:29 pm
Operator: LRD
Sample Name: ALTSe-1106816
Misc Info:
Vial Number: 2107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.005 ppb	157.84	1.30	
51	V	72	1	-0.010 ppb	133.25	6.50	
52	Cr	72	1	-0.007 ppb	25.34	2.60	
55	Mn	72	1	0.024 ppb	44.44	1.30	
59	Co	72	1	0.004 ppb	59.18	1.30	
60	Ni	72	1	0.003 ppb	192.51	2.60	
63	Cu	72	1	0.013 ppb	27.13	2.60	
66	Zn	72	1	0.122 ppb	12.98	13.00	
75	As	72	1	0.004 ppb	189.73	6.50	
78	Se	72	1	2.051 ppb	15.07	6.50	
95	Mo	72	1	0.128 ppb	5.12	2.60	
107	Ag	115	1	0.004 ppb	35.83	6.50	
111	Cd	115	1	0.004 ppb	63.95	1.30	
118	Sn	115	1	0.062 ppb	5.89	13.00	
121	Sb	115	1	0.007 ppb	25.86	2.60	
137	Ba	115	1	0.005 ppb	27.12	1.30	
205	Tl	165	1	0.004 ppb	12.06	1.30	
208	Pb	165	1	0.002 ppb	16.79	1.30	
232	Th	165	1	0.010 ppb	17.75	2.60	
238	U	165	1	0.004 ppb	10.44	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	483338	0.47	536694	90.1	30 - 120	
45	Sc	1	2683164	2.41	2857458	93.9	30 - 120	
72	Ge	1	1617151	1.09	1703453	94.9	30 - 120	
115	In	1	4675322	0.54	4777220	97.9	30 - 120	
165	Ho	1	9443442	0.95	9746194	96.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Linear Dynamic Range Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\014_LR.D\014_LR.D#
Date Acquired:	Nov 2 2011 10:32 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	LRA-1106823
Misc Info:	
Vial Number:	2110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	LR
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1024.00 ppb	0.70	1000	102.4	90 - 110	
51	V	72	1	922.90 ppb	0.42	1000	92.3	90 - 110	
52	Cr	72	1	950.80 ppb	0.46	1000	95.1	90 - 110	
55	Mn	72	1	966.30 ppb	0.43	1000	96.6	90 - 110	
59	Co	72	1	983.30 ppb	0.48	1000	98.3	90 - 110	
60	Ni	72	1	1009.00 ppb	0.86	1000	100.9	90 - 110	
63	Cu	72	1	954.50 ppb	0.90	1000	95.5	90 - 110	
66	Zn	72	1	1020.00 ppb	1.38	1000	102.0	90 - 110	
75	As	72	1	1026.00 ppb	1.08	1000	102.6	90 - 110	
78	Se	72	1	981.30 ppb	0.69	1000	98.1	90 - 110	
95	Mo	72	1	1008.00 ppb	0.93	1000	100.8	90 - 110	
107	Ag	115	1	978.40 ppb	0.73	1000	97.8	90 - 110	
111	Cd	115	1	1007.00 ppb	1.40	1000	100.7	90 - 110	
118	Sn	115	1	980.90 ppb	0.97	1000	98.1	90 - 110	
121	Sb	115	1	964.90 ppb	0.76	1000	96.5	90 - 110	
137	Ba	115	1	1041.00 ppb	0.52	1000	104.1	90 - 110	
205	Tl	165	1	1012.00 ppb	0.30	1000	101.2	90 - 110	
208	Pb	165	1	989.10 ppb	1.16	1000	98.9	90 - 110	
232	Th	165	1	1029.00 ppb	0.72	1000	102.9	90 - 110	
238	U	165	1	1023.00 ppb	1.05	1000	102.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	475529	0.76	536694	88.6	30 - 120	
45	Sc	1	2554399	0.91	2857458	89.4	30 - 120	
72	Ge	1	1572776	1.13	1703453	92.3	30 - 120	
115	In	1	4494120	0.58	4777220	94.1	30 - 120	
165	Ho	1	9419395	0.54	9746194	96.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\015WASH.D\015WASH.D#
Date Acquired: Nov 2 2011 10:35 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.072 ppb	56.97	1.30	
51	V	72	1	0.043 ppb	35.68	6.50	
52	Cr	72	1	0.057 ppb	17.78	2.60	
55	Mn	72	1	0.061 ppb	8.93	1.30	
59	Co	72	1	0.056 ppb	19.04	1.30	
60	Ni	72	1	0.059 ppb	24.71	2.60	
63	Cu	72	1	0.059 ppb	24.05	2.60	
66	Zn	72	1	0.049 ppb	20.25	13.00	
75	As	72	1	0.073 ppb	24.08	6.50	
78	Se	72	1	0.030 ppb	299.33	6.50	
95	Mo	72	1	0.234 ppb	2.59	2.60	
107	Ag	115	1	0.088 ppb	4.92	6.50	
111	Cd	115	1	0.045 ppb	11.03	1.30	
118	Sn	115	1	0.415 ppb	11.73	13.00	
121	Sb	115	1	0.161 ppb	4.44	2.60	
137	Ba	115	1	0.057 ppb	7.43	1.30	
205	Tl	165	1	0.145 ppb	9.63	1.30	
208	Pb	165	1	0.063 ppb	7.74	1.30	
232	Th	165	1	0.145 ppb	2.14	2.60	
238	U	165	1	0.109 ppb	7.88	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	481606	1.30	536694	89.7	30 - 120	
45	Sc	1	2613468	0.13	2857458	91.5	30 - 120	
72	Ge	1	1583300	0.52	1703453	92.9	30 - 120	
115	In	1	4666025	0.11	4777220	97.7	30 - 120	
165	Ho	1	9436572	0.59	9746194	96.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\016_CCV.D\016_CCV.D#
Date Acquired:	Nov 2 2011 10:38 pm
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.44	ppb	2.19	50	104.9	90 - 110	
51	V	72	1	49.84	ppb	1.49	50	99.7	90 - 110	
52	Cr	72	1	50.10	ppb	1.11	50	100.2	90 - 110	
55	Mn	72	1	50.22	ppb	0.67	50	100.4	90 - 110	
59	Co	72	1	51.30	ppb	0.54	50	102.6	90 - 110	
60	Ni	72	1	50.37	ppb	0.89	50	100.7	90 - 110	
63	Cu	72	1	49.10	ppb	1.85	50	98.2	90 - 110	
66	Zn	72	1	49.72	ppb	0.71	50	99.4	90 - 110	
75	As	72	1	50.17	ppb	1.04	50	100.3	90 - 110	
78	Se	72	1	49.65	ppb	2.69	50	99.3	90 - 110	
95	Mo	72	1	50.15	ppb	0.90	50	100.3	90 - 110	
107	Ag	115	1	50.60	ppb	2.96	50	101.2	90 - 110	
111	Cd	115	1	49.55	ppb	2.36	50	99.1	90 - 110	
118	Sn	115	1	48.54	ppb	0.50	50	97.1	90 - 110	
121	Sb	115	1	48.05	ppb	1.56	50	96.1	90 - 110	
137	Ba	115	1	50.70	ppb	2.33	50	101.4	90 - 110	
205	Tl	165	1	51.83	ppb	1.08	50	103.7	90 - 110	
208	Pb	165	1	50.54	ppb	1.19	50	101.1	90 - 110	
232	Th	165	1	51.65	ppb	0.57	50	103.3	90 - 110	
238	U	165	1	51.27	ppb	0.82	50	102.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	486881	0.80	536694	90.7	30 - 120	
45	Sc	1	2677790	1.41	2857458	93.7	30 - 120	
72	Ge	1	1618411	0.19	1703453	95.0	30 - 120	
115	In	1	4633882	1.08	4777220	97.0	30 - 120	
165	Ho	1	9502862	1.03	9746194	97.5	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\017_CCB.D\017_CCB.D#
Date Acquired:	Nov 2 2011 10:40 pm
Operator:	LRD
Sample Name:	CCB-1106802
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.019	ppb	85.50	1.00	
51	V	72	1	0.009	ppb	85.53	1.00	
52	Cr	72	1	0.003	ppb	203.59	1.00	
55	Mn	72	1	0.027	ppb	11.92	1.00	
59	Co	72	1	0.014	ppb	18.99	1.00	
60	Ni	72	1	0.020	ppb	37.00	1.00	
63	Cu	72	1	0.021	ppb	27.35	1.00	
66	Zn	72	1	0.017	ppb	115.62	1.00	
75	As	72	1	0.018	ppb	41.65	1.00	
78	Se	72	1	0.304	ppb	41.02	1.00	
95	Mo	72	1	0.072	ppb	7.82	1.00	
107	Ag	115	1	0.021	ppb	21.37	1.00	
111	Cd	115	1	0.019	ppb	15.89	1.00	
118	Sn	115	1	0.099	ppb	19.56	1.00	
121	Sb	115	1	0.036	ppb	4.30	1.00	
137	Ba	115	1	0.014	ppb	5.07	1.00	
205	Tl	165	1	0.040	ppb	1.57	1.00	
208	Pb	165	1	0.017	ppb	10.22	1.00	
232	Th	165	1	0.051	ppb	12.91	1.00	
238	U	165	1	0.022	ppb	8.02	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	491746	0.87	536694	91.6	30 - 120	
45	Sc	1	2694733	1.17	2857458	94.3	30 - 120	
72	Ge	1	1620155	0.94	1703453	95.1	30 - 120	
115	In	1	4666371	0.22	4777220	97.7	30 - 120	
165	Ho	1	9582923	0.71	9746194	98.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\018WASH.D\018WASH.D#
Date Acquired:	Nov 2 2011 10:43 pm
Operator:	LRD
Sample Name:	LLICV-1106830
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.154 ppb	21.16	1.30	
51	V	72	1	4.834 ppb	1.66	6.50	
52	Cr	72	1	2.115 ppb	0.64	2.60	
55	Mn	72	1	1.200 ppb	1.76	1.30	
59	Co	72	1	1.072 ppb	1.75	1.30	
60	Ni	72	1	2.289 ppb	1.81	2.60	
63	Cu	72	1	2.148 ppb	0.61	2.60	
66	Zn	72	1	10.320 ppb	0.81	13.00	
75	As	72	1	5.088 ppb	1.48	6.50	
78	Se	72	1	5.270 ppb	2.85	6.50	
95	Mo	72	1	2.184 ppb	4.94	2.60	
107	Ag	115	1	4.981 ppb	1.02	6.50	
111	Cd	115	1	1.043 ppb	4.75	1.30	
118	Sn	115	1	9.660 ppb	2.27	13.00	
121	Sb	115	1	2.005 ppb	1.09	2.60	
137	Ba	115	1	1.096 ppb	2.34	1.30	
205	Tl	165	1	1.104 ppb	0.18	1.30	
208	Pb	165	1	1.093 ppb	1.74	1.30	
232	Th	165	1	2.104 ppb	0.77	2.60	
238	U	165	1	1.092 ppb	1.37	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496669	0.51	536694	92.5	30 - 120	
45	Sc	1	2730547	0.42	2857458	95.6	30 - 120	
72	Ge	1	1635003	1.38	1703453	96.0	30 - 120	
115	In	1	4739716	0.84	4777220	99.2	30 - 120	
165	Ho	1	9529680	0.74	9746194	97.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\019_BLK.D\019_BLK.D#
Date Acquired: Nov 2 2011 10:46 pm
Operator: LRD
Sample Name: mb 280-94043/1-a
Misc Info: BLANK 94043 Soil DoD4/6020A
Vial Number: 2201
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.005 ppb	165.57	2.00	
51	V	72	1	-0.038 ppb	291.36	2.00	
52	Cr	72	1	0.084 ppb	23.40	2.00	
55	Mn	72	1	0.061 ppb	19.74	2.00	
59	Co	72	1	0.007 ppb	2.83	2.00	
60	Ni	72	1	0.040 ppb	39.14	2.00	
63	Cu	72	1	0.072 ppb	8.32	2.00	
66	Zn	72	1	0.340 ppb	4.74	2.00	
75	As	72	1	0.005 ppb	121.00	2.00	
78	Se	72	1	-0.022 ppb	375.65	2.00	
95	Mo	72	1	0.090 ppb	14.59	2.00	
107	Ag	115	1	0.012 ppb	31.54	2.00	
111	Cd	115	1	0.005 ppb	144.31	2.00	
118	Sn	115	1	0.093 ppb	1.48	2.00	
121	Sb	115	1	0.019 ppb	20.76	2.00	
137	Ba	115	1	0.052 ppb	10.22	2.00	
205	Tl	165	1	0.020 ppb	7.80	2.00	
208	Pb	165	1	0.050 ppb	5.91	2.00	
232	Th	165	1	0.028 ppb	19.79	2.00	
238	U	165	1	0.010 ppb	1.43	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	509461	0.74	536694	94.9	30 - 120	
45	Sc	1	2736442	1.01	2857458	95.8	30 - 120	
72	Ge	1	1647505	2.90	1703453	96.7	30 - 120	
115	In	1	4662813	1.95	4777220	97.6	30 - 120	
165	Ho	1	9648616	0.27	9746194	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\020_LCS.D\020_LCS.D#
Date Acquired: Nov 2 2011 10:49 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-94043/2-a
Misc Info: LCS
Vial Number: 2202
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.16	0.89	40	100.4	80 - 120	
51	V	72	1	39.22	3.04	40	98.1	80 - 120	
52	Cr	72	1	40.43	2.03	40	101.1	80 - 120	
55	Mn	72	1	38.78	0.83	40	97.0	80 - 120	
59	Co	72	1	41.09	0.48	40	102.7	80 - 120	
60	Ni	72	1	40.02	1.03	40	100.1	80 - 120	
63	Cu	72	1	39.56	1.21	40	98.9	80 - 120	
66	Zn	72	1	38.30	0.60	40	95.8	80 - 120	
75	As	72	1	39.29	0.38	40	98.2	80 - 120	
78	Se	72	1	38.50	1.69	40	96.3	80 - 120	
95	Mo	72	1	40.39	1.48	40	101.0	80 - 120	
107	Ag	115	1	40.66	0.80	40	101.7	80 - 120	
111	Cd	115	1	38.78	1.21	40	97.0	80 - 120	
118	Sn	115	1	39.08	0.98	40	97.7	80 - 120	
121	Sb	115	1	37.65	0.47	40	94.1	80 - 120	
137	Ba	115	1	41.22	0.69	40	103.1	80 - 120	
205	Tl	165	1	42.27	1.41	40	105.7	80 - 120	
208	Pb	165	1	40.06	0.49	40	100.2	80 - 120	
232	Th	165	1	41.15	1.38	40	102.9	80 - 120	
238	U	165	1	41.20	0.75	40	103.0	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	512777	1.05	536694	95.5	30 - 120	
45	Sc	1	2775114	0.50	2857458	97.1	30 - 120	
72	Ge	1	1660978	1.53	1703453	97.5	30 - 120	
115	In	1	4736872	0.70	4777220	99.2	30 - 120	
165	Ho	1	9743540	0.71	9746194	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\021SMPL.D\021SMPL.D#
Date Acquired:	Nov 2 2011 10:52 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-2-e
Misc Info:	
Vial Number:	2203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.47	0.47	ppb	23.45	3600	
51	V	72	1	40.45	40.45	ppb	2.76	3600	
52	Cr	72	1	18.01	18.01	ppb	1.30	3600	
55	Mn	72	1	551.10	551.10	ppb	1.25	18000	
59	Co	72	1	4.28	4.28	ppb	0.89	3600	
60	Ni	72	1	10.81	10.81	ppb	2.47	3600	
63	Cu	72	1	15.39	15.39	ppb	1.01	3600	
66	Zn	72	1	54.40	54.40	ppb	1.27	3600	
75	As	72	1	8.45	8.45	ppb	1.41	3600	
78	Se	72	1	2.15	2.15	ppb	10.49	3600	
95	Mo	72	1	1.21	1.21	ppb	1.44	3600	
107	Ag	115	1	0.11	0.11	ppb	2.92	3600	
111	Cd	115	1	0.27	0.27	ppb	7.24	3600	
118	Sn	115	1	0.31	0.31	ppb	9.29	3600	
121	Sb	115	1	0.17	0.17	ppb	7.11	3600	
137	Ba	115	1	32.47	32.47	ppb	0.35	3600	
205	Tl	165	1	0.27	0.27	ppb	3.16	3600	
208	Pb	165	1	57.98	57.98	ppb	0.65	3600	
232	Th	165	1	10.64	10.64	ppb	1.07	1000	
238	U	165	1	1.93	1.93	ppb	0.39	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	524103	0.25	536694	97.7	30 - 120	
45	Sc	1	2821696	1.94	2857458	98.7	30 - 120	
72	Ge	1	1673945	1.47	1703453	98.3	30 - 120	
115	In	1	4689209	0.85	4777220	98.2	30 - 120	
165	Ho	1	9644575	0.41	9746194	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\022SMPL.D\022SMPL.D#
Date Acquired: Nov 2 2011 10:55 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-3-e
Misc Info:
Vial Number: 2204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.42	0.42	ppb	11.53	3600	
51	V	72	1	35.19	35.19	ppb	1.54	3600	
52	Cr	72	1	17.21	17.21	ppb	1.39	3600	
55	Mn	72	1	499.10	499.10	ppb	2.63	18000	
59	Co	72	1	4.18	4.18	ppb	1.89	3600	
60	Ni	72	1	10.44	10.44	ppb	2.19	3600	
63	Cu	72	1	14.23	14.23	ppb	2.41	3600	
66	Zn	72	1	49.49	49.49	ppb	2.52	3600	
75	As	72	1	8.04	8.04	ppb	2.04	3600	
78	Se	72	1	1.67	1.67	ppb	23.32	3600	
95	Mo	72	1	1.08	1.08	ppb	7.02	3600	
107	Ag	115	1	0.10	0.10	ppb	1.63	3600	
111	Cd	115	1	0.28	0.28	ppb	5.12	3600	
118	Sn	115	1	0.23	0.23	ppb	1.57	3600	
121	Sb	115	1	0.14	0.14	ppb	7.51	3600	
137	Ba	115	1	30.81	30.81	ppb	1.86	3600	
205	Tl	165	1	0.21	0.21	ppb	1.28	3600	
208	Pb	165	1	48.96	48.96	ppb	0.85	3600	
232	Th	165	1	10.00	10.00	ppb	0.79	1000	
238	U	165	1	1.86	1.86	ppb	0.32	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	535502	0.92	536694	99.8	30 - 120	
45	Sc	1	2845156	0.34	2857458	99.6	30 - 120	
72	Ge	1	1687045	0.87	1703453	99.0	30 - 120	
115	In	1	4751261	1.52	4777220	99.5	30 - 120	
165	Ho	1	9854687	0.24	9746194	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\023SMPL.D\023SMPL.D#
Date Acquired:	Nov 2 2011 10:58 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-4-e
Misc Info:	
Vial Number:	2205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.47	0.47	ppb	18.22	3600	
51	V	72	1	42.37	42.37	ppb	2.36	3600	
52	Cr	72	1	16.83	16.83	ppb	2.92	3600	
55	Mn	72	1	636.70	636.70	ppb	3.18	18000	
59	Co	72	1	4.25	4.25	ppb	1.71	3600	
60	Ni	72	1	10.65	10.65	ppb	3.52	3600	
63	Cu	72	1	15.90	15.90	ppb	2.19	3600	
66	Zn	72	1	59.63	59.63	ppb	2.12	3600	
75	As	72	1	8.93	8.93	ppb	1.23	3600	
78	Se	72	1	2.29	2.29	ppb	12.71	3600	
95	Mo	72	1	1.21	1.21	ppb	3.59	3600	
107	Ag	115	1	0.10	0.10	ppb	3.12	3600	
111	Cd	115	1	0.29	0.29	ppb	10.80	3600	
118	Sn	115	1	0.30	0.30	ppb	15.68	3600	
121	Sb	115	1	0.18	0.18	ppb	3.28	3600	
137	Ba	115	1	35.34	35.34	ppb	1.92	3600	
205	Tl	165	1	0.23	0.23	ppb	1.24	3600	
208	Pb	165	1	45.57	45.57	ppb	2.06	3600	
232	Th	165	1	10.32	10.32	ppb	2.14	1000	
238	U	165	1	1.85	1.85	ppb	1.92	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532845	1.66	536694	99.3	30 - 120	
45	Sc	1	2869801	1.11	2857458	100.4	30 - 120	
72	Ge	1	1692801	1.37	1703453	99.4	30 - 120	
115	In	1	4775209	1.46	4777220	100.0	30 - 120	
165	Ho	1	9921853	1.91	9746194	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\024SMPL.D\024SMPL.D#
Date Acquired:	Nov 2 2011 11:01 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-74-e
Misc Info:	
Vial Number:	2206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.57	0.57	ppb	10.26	3600	
51	V	72	1	27.96	27.96	ppb	1.30	3600	
52	Cr	72	1	14.40	14.40	ppb	1.33	3600	
55	Mn	72	1	351.10	351.10	ppb	1.03	18000	
59	Co	72	1	1.74	1.74	ppb	1.63	3600	
60	Ni	72	1	6.35	6.35	ppb	1.07	3600	
63	Cu	72	1	11.33	11.33	ppb	0.63	3600	
66	Zn	72	1	46.11	46.11	ppb	0.68	3600	
75	As	72	1	6.08	6.08	ppb	0.55	3600	
78	Se	72	1	1.81	1.81	ppb	17.34	3600	
95	Mo	72	1	0.79	0.79	ppb	2.83	3600	
107	Ag	115	1	0.10	0.10	ppb	8.19	3600	
111	Cd	115	1	0.44	0.44	ppb	6.74	3600	
118	Sn	115	1	0.09	0.09	ppb	8.40	3600	
121	Sb	115	1	0.23	0.23	ppb	5.11	3600	
137	Ba	115	1	43.40	43.40	ppb	1.89	3600	
205	Tl	165	1	0.15	0.15	ppb	1.77	3600	
208	Pb	165	1	90.21	90.21	ppb	1.27	3600	
232	Th	165	1	12.68	12.68	ppb	1.91	1000	
238	U	165	1	2.14	2.14	ppb	1.50	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	533146	1.18	536694	99.3	30 - 120	
45	Sc	1	2845053	1.80	2857458	99.6	30 - 120	
72	Ge	1	1677279	1.14	1703453	98.5	30 - 120	
115	In	1	4729657	1.45	4777220	99.0	30 - 120	
165	Ho	1	9785905	0.73	9746194	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\025_CCV.D\025_CCV.D#
Date Acquired: Nov 2 2011 11:04 pm
Operator: LRD
Sample Name: CCV-1106831
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.33	ppb	1.37	50	100.7	90 - 110	
51	V	72	1	50.65	ppb	2.26	50	101.3	90 - 110	
52	Cr	72	1	51.07	ppb	2.21	50	102.1	90 - 110	
55	Mn	72	1	50.87	ppb	2.07	50	101.7	90 - 110	
59	Co	72	1	52.09	ppb	0.88	50	104.2	90 - 110	
60	Ni	72	1	51.43	ppb	1.08	50	102.9	90 - 110	
63	Cu	72	1	50.88	ppb	1.05	50	101.8	90 - 110	
66	Zn	72	1	49.93	ppb	0.86	50	99.9	90 - 110	
75	As	72	1	50.32	ppb	1.23	50	100.6	90 - 110	
78	Se	72	1	50.42	ppb	2.10	50	100.8	90 - 110	
95	Mo	72	1	50.53	ppb	1.73	50	101.1	90 - 110	
107	Ag	115	1	50.85	ppb	0.81	50	101.7	90 - 110	
111	Cd	115	1	49.71	ppb	0.43	50	99.4	90 - 110	
118	Sn	115	1	48.62	ppb	0.74	50	97.2	90 - 110	
121	Sb	115	1	47.97	ppb	0.67	50	95.9	90 - 110	
137	Ba	115	1	50.43	ppb	0.68	50	100.9	90 - 110	
205	Tl	165	1	51.22	ppb	1.39	50	102.4	90 - 110	
208	Pb	165	1	49.73	ppb	1.54	50	99.5	90 - 110	
232	Th	165	1	50.26	ppb	2.23	50	100.5	90 - 110	
238	U	165	1	49.94	ppb	1.91	50	99.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	522721	0.66	536694	97.4	30 - 120	
45	Sc	1	2839969	2.04	2857458	99.4	30 - 120	
72	Ge	1	1700624	1.05	1703453	99.8	30 - 120	
115	In	1	4813856	1.03	4777220	100.8	30 - 120	
165	Ho	1	9813527	1.05	9746194	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\026_CCB.D\026_CCB.D#
Date Acquired: Nov 2 2011 11:06 pm
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.009	ppb	149.37	1.00	
51	V	72	1	0.002	ppb	183.88	1.00	
52	Cr	72	1	-0.008	ppb	131.11	1.00	
55	Mn	72	1	0.037	ppb	24.10	1.00	
59	Co	72	1	0.006	ppb	13.28	1.00	
60	Ni	72	1	0.015	ppb	35.72	1.00	
63	Cu	72	1	0.008	ppb	78.97	1.00	
66	Zn	72	1	0.017	ppb	46.14	1.00	
75	As	72	1	0.012	ppb	122.04	1.00	
78	Se	72	1	0.032	ppb	313.73	1.00	
95	Mo	72	1	0.030	ppb	5.84	1.00	
107	Ag	115	1	0.009	ppb	13.89	1.00	
111	Cd	115	1	0.008	ppb	81.13	1.00	
118	Sn	115	1	0.040	ppb	24.04	1.00	
121	Sb	115	1	0.016	ppb	14.44	1.00	
137	Ba	115	1	0.006	ppb	36.73	1.00	
205	Tl	165	1	0.023	ppb	7.91	1.00	
208	Pb	165	1	0.011	ppb	13.73	1.00	
232	Th	165	1	0.038	ppb	9.06	1.00	
238	U	165	1	0.012	ppb	5.81	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	528813	1.07	536694	98.5	30 - 120	
45	Sc	1	2883749	1.36	2857458	100.9	30 - 120	
72	Ge	1	1724426	1.84	1703453	101.2	30 - 120	
115	In	1	4873120	0.88	4777220	102.0	30 - 120	
165	Ho	1	9875651	0.84	9746194	101.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\027WASH.D\027WASH.D#
Date Acquired: Nov 2 2011 11:09 pm
Operator: LRD
Sample Name: LLICV-1106830
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.015 ppb	15.04	1.30	
51	V	72	1	4.923 ppb	0.15	6.50	
52	Cr	72	1	2.174 ppb	1.58	2.60	
55	Mn	72	1	1.205 ppb	1.91	1.30	
59	Co	72	1	1.104 ppb	2.01	1.30	
60	Ni	72	1	2.325 ppb	0.48	2.60	
63	Cu	72	1	2.204 ppb	1.11	2.60	
66	Zn	72	1	10.370 ppb	1.07	13.00	
75	As	72	1	5.133 ppb	2.07	6.50	
78	Se	72	1	5.710 ppb	16.99	6.50	
95	Mo	72	1	2.124 ppb	3.28	2.60	
107	Ag	115	1	4.942 ppb	1.64	6.50	
111	Cd	115	1	1.066 ppb	5.47	1.30	
118	Sn	115	1	9.780 ppb	0.81	13.00	
121	Sb	115	1	1.991 ppb	0.25	2.60	
137	Ba	115	1	1.120 ppb	1.86	1.30	
205	Tl	165	1	1.084 ppb	1.25	1.30	
208	Pb	165	1	1.078 ppb	0.76	1.30	
232	Th	165	1	2.083 ppb	1.02	2.60	
238	U	165	1	1.045 ppb	0.51	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	528569	0.63	536694	98.5	30 - 120	
45	Sc	1	2901773	0.72	2857458	101.6	30 - 120	
72	Ge	1	1730586	0.28	1703453	101.6	30 - 120	
115	In	1	4915998	0.30	4777220	102.9	30 - 120	
165	Ho	1	9898934	0.71	9746194	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\028AREF.D\028AREF.D#
Date Acquired: Nov 2 2011 11:12 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-76-g
Misc Info:
Vial Number: 2208
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.53	0.53	ppb	15.41	3600	
51	V	72	1	27.67	27.67	ppb	1.08	3600	
52	Cr	72	1	13.37	13.37	ppb	0.62	3600	
55	Mn	72	1	396.30	396.30	ppb	0.39	18000	
59	Co	72	1	1.72	1.72	ppb	1.00	3600	
60	Ni	72	1	6.12	6.12	ppb	0.61	3600	
63	Cu	72	1	10.06	10.06	ppb	1.02	3600	
66	Zn	72	1	41.95	41.95	ppb	0.78	3600	
75	As	72	1	5.89	5.89	ppb	0.98	3600	
78	Se	72	1	1.78	1.78	ppb	15.26	3600	
95	Mo	72	1	0.87	0.87	ppb	1.83	3600	
107	Ag	115	1	0.10	0.10	ppb	7.76	3600	
111	Cd	115	1	0.67	0.67	ppb	1.64	3600	
118	Sn	115	1	0.15	0.15	ppb	3.93	3600	
121	Sb	115	1	0.12	0.12	ppb	2.31	3600	
137	Ba	115	1	43.53	43.53	ppb	0.79	3600	
205	Tl	165	1	0.16	0.16	ppb	1.35	3600	
208	Pb	165	1	58.13	58.13	ppb	0.19	3600	
232	Th	165	1	11.99	11.99	ppb	1.27	1000	
238	U	165	1	2.02	2.02	ppb	0.70	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	535339	0.46	536694	99.7	30 - 120	
45	Sc	1	2889671	1.42	2857458	101.1	30 - 120	
72	Ge	1	1713135	0.88	1703453	100.6	30 - 120	
115	In	1	4844284	0.01	4777220	101.4	30 - 120	
165	Ho	1	9914492	0.84	9746194	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\029SDIL.D\029SDIL.D#
Date Acquired: Nov 2 2011 11:15 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-76-g SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2209
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110211.B\028AREF.D\028AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.09	ppb	39.66	0.11	80.9	90 - 110	
51	V	72	1	5.45	ppb	1.97	5.53	98.4	90 - 110	
52	Cr	72	1	2.72	ppb	2.81	2.67	101.7	90 - 110	
55	Mn	72	1	82.11	ppb	1.84	79.26	103.6	90 - 110	
59	Co	72	1	0.34	ppb	2.67	0.34	100.1	90 - 110	
60	Ni	72	1	1.26	ppb	2.18	1.22	102.6	90 - 110	
63	Cu	72	1	2.04	ppb	1.27	2.01	101.1	90 - 110	
66	Zn	72	1	8.63	ppb	0.25	8.39	102.9	90 - 110	
75	As	72	1	1.19	ppb	1.21	1.18	101.2	90 - 110	
78	Se	72	1	0.46	ppb	44.13	0.36	127.8	90 - 110	
95	Mo	72	1	0.19	ppb	12.20	0.17	108.2	90 - 110	
107	Ag	115	1	0.02	ppb	8.02	0.02	121.1	90 - 110	
111	Cd	115	1	0.13	ppb	6.42	0.13	94.8	90 - 110	
118	Sn	115	1	0.10	ppb	0.80	0.03	344.3	90 - 110	
121	Sb	115	1	0.03	ppb	10.49	0.02	113.1	90 - 110	
137	Ba	115	1	8.57	ppb	2.10	8.71	98.4	90 - 110	
205	Tl	165	1	0.04	ppb	3.74	0.03	110.5	90 - 110	
208	Pb	165	1	11.53	ppb	1.64	11.63	99.2	90 - 110	
232	Th	165	1	2.37	ppb	2.22	2.40	98.9	90 - 110	
238	U	165	1	0.40	ppb	3.16	0.40	100.1	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	534145	0.54	536694	99.5	30 - 120	
45	Sc	1	2951921	1.69	2857458	103.3	30 - 120	
72	Ge	1	1724664	0.52	1703453	101.2	30 - 120	
115	In	1	4929239	2.03	4777220	103.2	30 - 120	
165	Ho	1	9951902	1.81	9746194	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\030PDS.D\030PDS.D#
Date Acquired:	Nov 2 2011 11:18 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-76-g PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	2210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00
Spike Ref. File:	---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	202.60	0.53	ppb	0.54	200	101.0	75 - 125	
51 V	72	1	222.10	27.67	ppb	1.06	200	97.6	75 - 125	
52 Cr	72	1	210.80	13.37	ppb	0.40	200	98.8	75 - 125	
55 Mn	72	1	587.60	396.30	ppb	0.72	200	98.5	75 - 125	
59 Co	72	1	203.30	1.72	ppb	0.31	200	100.8	75 - 125	
60 Ni	72	1	217.90	6.12	ppb	0.85	200	105.7	75 - 125	
63 Cu	72	1	209.00	10.06	ppb	0.50	200	99.5	75 - 125	
66 Zn	72	1	232.80	41.95	ppb	0.29	200	96.2	75 - 125	
75 As	72	1	206.00	5.89	ppb	0.22	200	100.1	75 - 125	
78 Se	72	1	195.70	1.78	ppb	0.40	200	97.0	75 - 125	
95 Mo	72	1	211.40	0.87	ppb	1.72	200	105.2	75 - 125	
107 Ag	115	1	50.22	0.10	ppb	1.81	50	100.2	75 - 125	
111 Cd	115	1	197.40	0.67	ppb	0.49	200	98.4	75 - 125	
118 Sn	115	1	197.40	0.15	ppb	1.02	200	98.6	75 - 125	
121 Sb	115	1	193.00	0.12	ppb	1.17	200	96.4	75 - 125	
137 Ba	115	1	256.10	43.53	ppb	1.67	200	105.2	75 - 125	
205 Tl	165	1	199.40	0.16	ppb	0.62	200	99.6	75 - 125	
208 Pb	165	1	249.50	58.13	ppb	0.95	200	96.7	75 - 125	
232 Th	165	1	11.85	11.99	ppb	1.23	200	5.6	75 - 125	
238 U	165	1	196.80	2.02	ppb	0.64	200	97.4	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	542014	0.86	536694	101.0	30 - 120	
45 Sc	1	2874729	0.86	2857458	100.6	30 - 120	
72 Ge	1	1697818	0.71	1703453	99.7	30 - 120	
115 In	1	4839303	1.23	4777220	101.3	30 - 120	
165 Ho	1	9819085	0.66	9746194	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\031_MS.D\031_MS.D#
Date Acquired:	Nov 2 2011 11:21 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-76-h ms
Misc Info:	MATRIX SPIKE
Vial Number:	2211
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	40.43	0.53	ppb	3.36	40	99.7	50 - 150	
51 V	72	1	67.32	27.67	ppb	3.27	40	99.5	50 - 150	
52 Cr	72	1	53.02	13.37	ppb	2.80	40	99.3	50 - 150	
55 Mn	72	1	401.90	396.30	ppb	1.75	40	92.1	50 - 150	
59 Co	72	1	41.40	1.72	ppb	2.63	40	99.2	50 - 150	
60 Ni	72	1	44.61	6.12	ppb	1.26	40	96.7	50 - 150	
63 Cu	72	1	47.06	10.06	ppb	3.54	40	94.0	50 - 150	
66 Zn	72	1	76.65	41.95	ppb	1.67	40	93.5	50 - 150	
75 As	72	1	41.47	5.89	ppb	1.41	40	90.4	50 - 150	
78 Se	72	1	36.21	1.78	ppb	2.83	40	86.7	50 - 150	
95 Mo	72	1	35.91	0.87	ppb	2.01	40	87.9	50 - 150	
107 Ag	115	1	37.17	0.10	ppb	1.25	40	92.7	50 - 150	
111 Cd	115	1	38.09	0.67	ppb	0.15	40	93.7	50 - 150	
118 Sn	115	1	1.44	0.15	ppb	4.44	40	3.6	50 - 150	
121 Sb	115	1	5.49	0.12	ppb	0.99	40	13.7	50 - 150	
137 Ba	115	1	79.63	43.53	ppb	1.21	40	95.3	50 - 150	
205 Tl	165	1	39.64	0.16	ppb	2.21	40	98.7	50 - 150	
208 Pb	165	1	95.03	58.13	ppb	1.36	40	96.8	50 - 150	
232 Th	165	1	46.45	11.99	ppb	2.27	40	89.3	50 - 150	
238 U	165	1	41.11	2.02	ppb	2.25	40	97.8	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	536156	0.65	536694	99.9	30 - 120	
45 Sc	1	2902016	1.60	2857458	101.6	30 - 120	
72 Ge	1	1720300	0.88	1703453	101.0	30 - 120	
115 In	1	4859908	0.75	4777220	101.7	30 - 120	
165 Ho	1	9877297	1.72	9746194	101.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\032_MSD.D\032_MSD.D#	
Date Acquired:	Nov 2 2011 11:24 pm	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	LRD	**ISTD: Pass**
Sample Name:	280-21683-a-76-i msd	
Misc Info:	MATRIX SPIKE DUPLICATE	
Vial Number:	2212	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 02 2011 10:03 pm	
Sample Type:	MSD	
Dilution Factor:	1.00	

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110211.B\031_MS.D\031_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	39.61	ppb	3.33	40.43	2.05	20	
51	V	72	1	68.05	ppb	1.05	67.32	1.08	20	
52	Cr	72	1	53.73	ppb	0.83	53.02	1.33	20	
55	Mn	72	1	407.30	ppb	0.48	401.90	1.33	20	
59	Co	72	1	42.51	ppb	2.32	41.40	2.65	20	
60	Ni	72	1	45.25	ppb	0.73	44.61	1.42	20	
63	Cu	72	1	49.00	ppb	1.37	47.06	4.04	20	
66	Zn	72	1	78.75	ppb	0.56	76.65	2.70	20	
75	As	72	1	42.10	ppb	0.86	41.47	1.51	20	
78	Se	72	1	38.77	ppb	3.61	36.21	6.83	20	
95	Mo	72	1	36.30	ppb	1.32	35.91	1.08	20	
107	Ag	115	1	37.70	ppb	0.59	37.17	1.42	20	
111	Cd	115	1	38.36	ppb	1.01	38.09	0.71	20	
118	Sn	115	1	1.20	ppb	3.19	1.44	18.18	20	
121	Sb	115	1	5.66	ppb	0.79	5.49	3.01	20	
137	Ba	115	1	80.66	ppb	1.16	79.63	1.29	20	
205	Tl	165	1	39.10	ppb	0.59	39.64	1.37	20	
208	Pb	165	1	95.19	ppb	0.35	95.03	0.17	20	
232	Th	165	1	46.88	ppb	0.28	46.45	0.92	20	
238	U	165	1	41.20	ppb	0.91	41.11	0.22	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	544562	1.94	536694	101.5	30 - 120	
45	Sc	1	2891562	0.62	2857458	101.2	30 - 120	
72	Ge	1	1698272	1.55	1703453	99.7	30 - 120	
115	In	1	4843806	0.16	4777220	101.4	30 - 120	
165	Ho	1	9916027	0.36	9746194	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\033SMPL.D\033SMPL.D#
Date Acquired:	Nov 2 2011 11:27 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-75-e
Misc Info:	
Vial Number:	2207
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.56	0.56	ppb	15.59	3600	
51	V	72	1	29.04	29.04	ppb	1.63	3600	
52	Cr	72	1	16.50	16.50	ppb	0.47	3600	
55	Mn	72	1	389.50	389.50	ppb	1.66	18000	
59	Co	72	1	1.83	1.83	ppb	1.31	3600	
60	Ni	72	1	6.70	6.70	ppb	0.72	3600	
63	Cu	72	1	9.77	9.77	ppb	1.67	3600	
66	Zn	72	1	56.97	56.97	ppb	0.68	3600	
75	As	72	1	6.24	6.24	ppb	0.64	3600	
78	Se	72	1	2.30	2.30	ppb	15.06	3600	
95	Mo	72	1	0.88	0.88	ppb	2.29	3600	
107	Ag	115	1	0.10	0.10	ppb	2.55	3600	
111	Cd	115	1	0.54	0.54	ppb	12.17	3600	
118	Sn	115	1	0.14	0.14	ppb	10.78	3600	
121	Sb	115	1	0.35	0.35	ppb	4.57	3600	
137	Ba	115	1	46.23	46.23	ppb	1.28	3600	
205	Tl	165	1	0.20	0.20	ppb	1.25	3600	
208	Pb	165	1	105.80	105.80	ppb	1.74	3600	
232	Th	165	1	13.19	13.19	ppb	2.57	1000	
238	U	165	1	2.35	2.35	ppb	1.98	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541337	0.65	536694	100.9	30 - 120	
45	Sc	1	2908997	0.64	2857458	101.8	30 - 120	
72	Ge	1	1715406	1.20	1703453	100.7	30 - 120	
115	In	1	4879082	0.71	4777220	102.1	30 - 120	
165	Ho	1	9887528	1.38	9746194	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\034_CCV.D\034_CCV.D#
Date Acquired:	Nov 2 2011 11:29 pm
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.32	ppb	1.58	50	102.6	90 - 110	
51	V	72	1	49.77	ppb	0.84	50	99.5	90 - 110	
52	Cr	72	1	49.56	ppb	0.77	50	99.1	90 - 110	
55	Mn	72	1	51.06	ppb	0.71	50	102.1	90 - 110	
59	Co	72	1	51.57	ppb	2.05	50	103.1	90 - 110	
60	Ni	72	1	50.96	ppb	1.66	50	101.9	90 - 110	
63	Cu	72	1	50.57	ppb	1.45	50	101.1	90 - 110	
66	Zn	72	1	49.60	ppb	0.23	50	99.2	90 - 110	
75	As	72	1	49.96	ppb	0.97	50	99.9	90 - 110	
78	Se	72	1	48.70	ppb	2.34	50	97.4	90 - 110	
95	Mo	72	1	49.94	ppb	0.56	50	99.9	90 - 110	
107	Ag	115	1	51.17	ppb	1.05	50	102.3	90 - 110	
111	Cd	115	1	49.22	ppb	0.43	50	98.4	90 - 110	
118	Sn	115	1	48.14	ppb	1.28	50	96.3	90 - 110	
121	Sb	115	1	47.73	ppb	0.59	50	95.5	90 - 110	
137	Ba	115	1	49.95	ppb	1.01	50	99.9	90 - 110	
205	Tl	165	1	51.40	ppb	2.26	50	102.8	90 - 110	
208	Pb	165	1	50.05	ppb	1.97	50	100.1	90 - 110	
232	Th	165	1	50.98	ppb	2.83	50	102.0	90 - 110	
238	U	165	1	50.95	ppb	2.92	50	101.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540160	0.21	536694	100.6	30 - 120	
45	Sc	1	2878926	1.73	2857458	100.8	30 - 120	
72	Ge	1	1752645	0.77	1703453	102.9	30 - 120	
115	In	1	4927836	1.02	4777220	103.2	30 - 120	
165	Ho	1	9776856	1.42	9746194	100.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\035_CCB.D\035_CCB.D#
Date Acquired: Nov 2 2011 11:32 pm
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	173.45	1.00	
51	V	72	1	0.001	ppb	640.71	1.00	
52	Cr	72	1	0.003	ppb	369.88	1.00	
55	Mn	72	1	0.041	ppb	17.30	1.00	
59	Co	72	1	0.011	ppb	14.35	1.00	
60	Ni	72	1	0.013	ppb	32.59	1.00	
63	Cu	72	1	0.011	ppb	37.94	1.00	
66	Zn	72	1	0.023	ppb	12.31	1.00	
75	As	72	1	0.010	ppb	29.45	1.00	
78	Se	72	1	0.126	ppb	68.57	1.00	
95	Mo	72	1	0.032	ppb	19.17	1.00	
107	Ag	115	1	0.010	ppb	8.37	1.00	
111	Cd	115	1	0.013	ppb	22.89	1.00	
118	Sn	115	1	0.049	ppb	15.96	1.00	
121	Sb	115	1	0.018	ppb	17.57	1.00	
137	Ba	115	1	0.009	ppb	43.26	1.00	
205	Tl	165	1	0.027	ppb	9.81	1.00	
208	Pb	165	1	0.015	ppb	7.06	1.00	
232	Th	165	1	0.044	ppb	11.58	1.00	
238	U	165	1	0.016	ppb	0.69	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	534479	1.19	536694	99.6	30 - 120	
45	Sc	1	2929988	1.35	2857458	102.5	30 - 120	
72	Ge	1	1760899	1.55	1703453	103.4	30 - 120	
115	In	1	4962242	1.56	4777220	103.9	30 - 120	
165	Ho	1	9923294	0.63	9746194	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\036WASH.D\036WASH.D#
Date Acquired:	Nov 2 2011 11:35 pm
Operator:	LRD
Sample Name:	LLICV-1106830
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.154 ppb	7.26	1.30	
51	V	72	1	4.872 ppb	2.01	6.50	
52	Cr	72	1	2.165 ppb	1.55	2.60	
55	Mn	72	1	1.184 ppb	3.45	1.30	
59	Co	72	1	1.090 ppb	2.02	1.30	
60	Ni	72	1	2.276 ppb	1.59	2.60	
63	Cu	72	1	2.140 ppb	1.72	2.60	
66	Zn	72	1	10.340 ppb	2.05	13.00	
75	As	72	1	5.144 ppb	1.85	6.50	
78	Se	72	1	5.360 ppb	12.52	6.50	
95	Mo	72	1	2.128 ppb	1.46	2.60	
107	Ag	115	1	4.990 ppb	0.54	6.50	
111	Cd	115	1	1.094 ppb	2.66	1.30	
118	Sn	115	1	9.735 ppb	1.07	13.00	
121	Sb	115	1	1.977 ppb	0.37	2.60	
137	Ba	115	1	1.122 ppb	2.50	1.30	
205	Tl	165	1	1.074 ppb	0.33	1.30	
208	Pb	165	1	1.065 ppb	1.44	1.30	
232	Th	165	1	2.025 ppb	1.88	2.60	
238	U	165	1	1.034 ppb	0.77	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540468	0.84	536694	100.7	30 - 120	
45	Sc	1	2915543	2.72	2857458	102.0	30 - 120	
72	Ge	1	1746976	0.75	1703453	102.6	30 - 120	
115	In	1	4972854	0.86	4777220	104.1	30 - 120	
165	Ho	1	9950714	0.27	9746194	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\037_BLK.D\037_BLK.D#
Date Acquired:	Nov 2 2011 11:38 pm
Operator:	LRD
Sample Name:	mb 280-93647/1-a
Misc Info:	BLANK 93647 Soil DoD4/6020
Vial Number:	2301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	-0.004 ppb	0.00	2.00	
51	V	72	1	-0.008 ppb	243.86	2.00	
52	Cr	72	1	0.037 ppb	13.98	2.00	
55	Mn	72	1	0.067 ppb	15.12	2.00	
59	Co	72	1	0.012 ppb	93.36	2.00	
60	Ni	72	1	0.056 ppb	103.18	2.00	
63	Cu	72	1	0.063 ppb	10.85	2.00	
66	Zn	72	1	0.122 ppb	7.30	2.00	
75	As	72	1	0.004 ppb	61.95	2.00	
78	Se	72	1	0.283 ppb	28.82	2.00	
95	Mo	72	1	0.012 ppb	11.94	2.00	
107	Ag	115	1	0.006 ppb	2.34	2.00	
111	Cd	115	1	0.011 ppb	22.52	2.00	
118	Sn	115	1	0.087 ppb	1.27	2.00	
121	Sb	115	1	0.008 ppb	20.90	2.00	
137	Ba	115	1	0.040 ppb	18.43	2.00	
205	Tl	165	1	0.013 ppb	6.36	2.00	
208	Pb	165	1	0.019 ppb	4.25	2.00	
232	Th	165	1	0.018 ppb	10.98	2.00	
238	U	165	1	0.007 ppb	8.59	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	543114	0.72	536694	101.2	30 - 120	
45	Sc	1	2956104	0.77	2857458	103.5	30 - 120	
72	Ge	1	1760901	1.24	1703453	103.4	30 - 120	
115	In	1	4937130	1.06	4777220	103.3	30 - 120	
165	Ho	1	10026504	2.18	9746194	102.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\038_LCS.D\038_LCS.D#
Date Acquired:	Nov 2 2011 11:41 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-93647/2-a
Misc Info:	LCS
Vial Number:	2302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	38.27	0.43	40	95.7	80 - 120	
51	V	72	1	39.79	3.10	40	99.5	80 - 120	
52	Cr	72	1	40.67	2.95	40	101.7	80 - 120	
55	Mn	72	1	38.79	3.07	40	97.0	80 - 120	
59	Co	72	1	41.39	2.36	40	103.5	80 - 120	
60	Ni	72	1	40.15	2.52	40	100.4	80 - 120	
63	Cu	72	1	39.23	2.28	40	98.1	80 - 120	
66	Zn	72	1	37.68	0.95	40	94.2	80 - 120	
75	As	72	1	38.53	1.23	40	96.3	80 - 120	
78	Se	72	1	37.75	1.46	40	94.4	80 - 120	
95	Mo	72	1	39.58	2.61	40	99.0	80 - 120	
107	Ag	115	1	40.74	1.90	40	101.9	80 - 120	
111	Cd	115	1	38.03	1.07	40	95.1	80 - 120	
118	Sn	115	1	37.84	1.31	40	94.6	80 - 120	
121	Sb	115	1	36.42	1.65	40	91.1	80 - 120	
137	Ba	115	1	39.62	2.24	40	99.1	80 - 120	
205	Tl	165	1	39.60	0.38	40	99.0	80 - 120	
208	Pb	165	1	38.55	0.75	40	96.4	80 - 120	
232	Th	165	1	39.00	2.55	40	97.5	80 - 120	
238	U	165	1	39.25	1.72	40	98.1	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551951	1.05	536694	102.8	30 - 120	
45	Sc	1	2977550	0.14	2857458	104.2	30 - 120	
72	Ge	1	1745684	0.86	1703453	102.5	30 - 120	
115	In	1	4977671	1.97	4777220	104.2	30 - 120	
165	Ho	1	10088227	1.20	9746194	103.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Labratory Control Spike Duplicate Sample (LCSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\039LCSD.D\039LCSD.D#
Date Acquired:	Nov 2 2011 11:44 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcsd 280-93647/3-a
Misc Info:	LCSD
Vial Number:	2303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	LCSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110211.B\038_LCS.D\038_LCS.D#

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9	Be	6	1	39.09 ppb	1.96	38.27	2.12	2000	
51	V	72	1	39.49 ppb	4.07	39.79	0.76	2000	
52	Cr	72	1	40.79 ppb	2.60	40.67	0.29	2000	
55	Mn	72	1	38.50 ppb	0.98	38.79	0.75	2000	
59	Co	72	1	41.40 ppb	1.71	41.39	0.02	2000	
60	Ni	72	1	39.85 ppb	1.18	40.15	0.75	2000	
63	Cu	72	1	38.76 ppb	0.32	39.23	1.21	2000	
66	Zn	72	1	36.87 ppb	1.73	37.68	2.17	2000	
75	As	72	1	38.39 ppb	1.25	38.53	0.36	2000	
78	Se	72	1	37.51 ppb	4.99	37.75	0.64	2000	
95	Mo	72	1	39.21 ppb	1.84	39.58	0.94	2000	
107	Ag	115	1	39.17 ppb	1.07	40.74	3.93	2000	
111	Cd	115	1	37.12 ppb	1.06	38.03	2.42	2000	
118	Sn	115	1	36.97 ppb	0.73	37.84	2.33	2000	
121	Sb	115	1	35.62 ppb	0.88	36.42	2.22	2000	
137	Ba	115	1	38.64 ppb	0.45	39.62	2.50	2000	
205	Tl	165	1	39.61 ppb	1.99	39.60	0.03	2000	
208	Pb	165	1	38.40 ppb	2.25	38.55	0.39	2000	
232	Th	165	1	38.93 ppb	2.22	39.00	0.18	2000	
238	U	165	1	38.84 ppb	3.46	39.25	1.05	2000	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	548209	0.61	536694	102.1	30 - 120	
45	Sc	1	2959113	2.59	2857458	103.6	30 - 120	
72	Ge	1	1746083	0.46	1703453	102.5	30 - 120	
115	In	1	5003703	0.77	4777220	104.7	30 - 120	
165	Ho	1	10002797	1.96	9746194	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\040AREF.D\040AREF.D#
Date Acquired:	Nov 2 2011 11:47 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22003-a-1-c
Misc Info:	
Vial Number:	2304
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.73	2.73	ppb	5.74	3600	
51	V	72	1	275.80	275.80	ppb	1.78	3600	
52	Cr	72	1	106.20	106.20	ppb	1.20	3600	
55	Mn	72	1	2,488.00	2488.00	ppb	0.65	18000	
59	Co	72	1	65.02	65.02	ppb	0.21	3600	
60	Ni	72	1	155.90	155.90	ppb	0.40	3600	
63	Cu	72	1	116.30	116.30	ppb	0.36	3600	
66	Zn	72	1	261.30	261.30	ppb	0.64	3600	
75	As	72	1	15.38	15.38	ppb	1.19	3600	
78	Se	72	1	4.04	4.04	ppb	11.72	3600	
95	Mo	72	1	0.76	0.76	ppb	2.93	3600	
107	Ag	115	1	0.28	0.28	ppb	7.53	3600	
111	Cd	115	1	1.84	1.84	ppb	6.21	3600	
118	Sn	115	1	0.67	0.67	ppb	3.10	3600	
121	Sb	115	1	0.21	0.21	ppb	5.44	3600	
137	Ba	115	1	576.70	576.70	ppb	3.04	3600	
205	Tl	165	1	0.53	0.53	ppb	1.19	3600	
208	Pb	165	1	344.10	344.10	ppb	0.51	3600	
232	Th	165	1	15.10	15.10	ppb	0.53	1000	
238	U	165	1	2.79	2.79	ppb	0.48	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501007	1.12	536694	93.4	30 - 120	
45	Sc	1	3078880	1.42	2857458	107.7	30 - 120	
72	Ge	1	1636842	1.18	1703453	96.1	30 - 120	
115	In	1	4502804	2.03	4777220	94.3	30 - 120	
165	Ho	1	9211087	1.15	9746194	94.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\041SDIL.D\041SDIL.D#
Date Acquired: Nov 2 2011 11:49 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22003-a-1-c SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110211.B\040AREF.D\040AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.53	ppb	11.69	0.55	96.9	90 - 110	
51	V	72	1	57.97	ppb	0.48	55.16	105.1	90 - 110	
52	Cr	72	1	20.99	ppb	0.80	21.24	98.8	90 - 110	
55	Mn	72	1	518.10	ppb	1.37	497.60	104.1	90 - 110	
59	Co	72	1	12.90	ppb	0.76	13.00	99.2	90 - 110	
60	Ni	72	1	31.19	ppb	0.95	31.18	100.0	90 - 110	
63	Cu	72	1	24.11	ppb	1.27	23.26	103.7	90 - 110	
66	Zn	72	1	54.61	ppb	0.71	52.26	104.5	90 - 110	
75	As	72	1	3.17	ppb	0.78	3.08	103.1	90 - 110	
78	Se	72	1	1.25	ppb	21.70	0.81	154.9	90 - 110	
95	Mo	72	1	0.16	ppb	6.62	0.15	105.8	90 - 110	
107	Ag	115	1	0.06	ppb	1.26	0.06	106.5	90 - 110	
111	Cd	115	1	0.37	ppb	2.24	0.37	101.6	90 - 110	
118	Sn	115	1	0.17	ppb	5.83	0.13	128.1	90 - 110	
121	Sb	115	1	0.05	ppb	2.81	0.04	106.4	90 - 110	
137	Ba	115	1	109.40	ppb	0.34	115.34	94.9	90 - 110	
205	Tl	165	1	0.11	ppb	1.37	0.11	99.9	90 - 110	
208	Pb	165	1	70.77	ppb	0.74	68.82	102.8	90 - 110	
232	Th	165	1	2.95	ppb	1.51	3.02	97.7	90 - 110	
238	U	165	1	0.54	ppb	1.11	0.56	96.1	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	527797	0.72	536694	98.3	30 - 120	
45	Sc	1	2942336	1.67	2857458	103.0	30 - 120	
72	Ge	1	1690867	1.36	1703453	99.3	30 - 120	
115	In	1	4762099	0.66	4777220	99.7	30 - 120	
165	Ho	1	9746633	0.60	9746194	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\042PDS.D\042PDS.D#
Date Acquired:	Nov 2 2011 11:52 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22003-a-1-c PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	2306
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	202.80	2.72	ppb	1.69	200	100.0	75 - 125	
51 V	72	1	442.50	275.80	ppb	2.63	200	93.0	75 - 125	
52 Cr	72	1	284.00	106.20	ppb	2.90	200	92.7	75 - 125	
55 Mn	72	1	2552.00	2488.00	ppb	3.34	200	94.9	75 - 125	
59 Co	72	1	246.60	65.02	ppb	1.84	200	93.0	75 - 125	
60 Ni	72	1	339.20	155.90	ppb	2.06	200	95.3	75 - 125	
63 Cu	72	1	283.90	116.30	ppb	2.99	200	89.8	75 - 125	
66 Zn	72	1	448.90	261.30	ppb	1.95	200	97.3	75 - 125	
75 As	72	1	202.20	15.38	ppb	2.49	200	93.9	75 - 125	
78 Se	72	1	182.70	4.04	ppb	2.17	200	89.5	75 - 125	
95 Mo	72	1	203.80	0.76	ppb	2.22	200	101.5	75 - 125	
107 Ag	115	1	48.55	0.28	ppb	0.61	50	96.6	75 - 125	
111 Cd	115	1	194.60	1.84	ppb	1.40	200	96.4	75 - 125	
118 Sn	115	1	196.60	0.67	ppb	3.16	200	98.0	75 - 125	
121 Sb	115	1	195.30	0.21	ppb	1.78	200	97.5	75 - 125	
137 Ba	115	1	752.20	576.70	ppb	1.60	200	96.8	75 - 125	
205 Tl	165	1	192.10	0.53	ppb	1.61	200	95.8	75 - 125	
208 Pb	165	1	515.20	344.10	ppb	1.02	200	94.7	75 - 125	
232 Th	165	1	14.35	15.10	ppb	0.82	200	6.7	75 - 125	
238 U	165	1	196.20	2.79	ppb	1.07	200	96.7	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	494884	1.04	536694	92.2	30 - 120	
45 Sc	1	3004868	0.35	2857458	105.2	30 - 120	
72 Ge	1	1611639	1.91	1703453	94.6	30 - 120	
115 In	1	4417008	0.46	4777220	92.5	30 - 120	
165 Ho	1	9149132	0.90	9746194	93.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\043_MS.D\043_MS.D#		
Date Acquired:	Nov 2 2011 11:55 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	LRD	ISTD:	Pass
Sample Name:	280-22003-a-1-j ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	2307		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 02 2011 10:03 pm		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	43.59	2.72	ppb	1.81	40	102.0	50 - 150	
51 V	72	1	355.40	275.80	ppb	1.59	40	112.5	50 - 150	
52 Cr	72	1	158.70	106.20	ppb	1.61	40	108.5	50 - 150	
55 Mn	72	1	2979.00	2488.00	ppb	1.56	40	117.8	50 - 150	
59 Co	72	1	114.10	65.02	ppb	1.03	40	108.6	50 - 150	
60 Ni	72	1	221.40	155.90	ppb	1.55	40	113.0	50 - 150	
63 Cu	72	1	172.50	116.30	ppb	1.18	40	110.4	50 - 150	
66 Zn	72	1	345.10	261.30	ppb	1.87	40	114.5	50 - 150	
75 As	72	1	50.80	15.38	ppb	1.40	40	91.7	50 - 150	
78 Se	72	1	34.34	4.04	ppb	2.57	40	78.0	50 - 150	
95 Mo	72	1	25.92	0.76	ppb	1.15	40	63.6	50 - 150	
107 Ag	115	1	34.81	0.28	ppb	0.68	40	86.4	50 - 150	
111 Cd	115	1	40.92	1.84	ppb	0.24	40	97.8	50 - 150	
118 Sn	115	1	11.33	0.67	ppb	0.47	40	27.9	50 - 150	
121 Sb	115	1	1.42	0.21	ppb	1.08	40	3.5	50 - 150	
137 Ba	115	1	725.30	576.70	ppb	0.36	40	117.6	50 - 150	
205 Tl	165	1	39.31	0.53	ppb	0.99	40	97.0	50 - 150	
208 Pb	165	1	461.40	344.10	ppb	0.87	40	120.1	50 - 150	
232 Th	165	1	57.41	15.10	ppb	1.70	40	104.2	50 - 150	
238 U	165	1	44.04	2.79	ppb	1.39	40	102.9	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	478693	0.13	536694	89.2	30 - 120	
45 Sc	1	2991101	0.30	2857458	104.7	30 - 120	
72 Ge	1	1579672	0.50	1703453	92.7	30 - 120	
115 In	1	4329422	0.87	4777220	90.6	30 - 120	
165 Ho	1	8996216	0.45	9746194	92.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\044_MSD.D\044_MSD.D#	
Date Acquired:	Nov 2 2011 11:58 pm	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	LRD	**ISTD: Pass**
Sample Name:	280-22003-a-1-k msd	
Misc Info:	MATRIX SPIKE DUPLICATE	
Vial Number:	2308	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 02 2011 10:03 pm	
Sample Type:	MSD	
Dilution Factor:	1.00	

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110211.B\043_MS.D\043_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	42.48	ppb	3.36	43.59	2.58	20	
51	V	72	1	363.00	ppb	0.38	355.40	2.12	20	
52	Cr	72	1	159.20	ppb	0.83	158.70	0.31	20	
55	Mn	72	1	3002.00	ppb	0.32	2979.00	0.77	20	
59	Co	72	1	114.20	ppb	1.26	114.10	0.09	20	
60	Ni	72	1	221.20	ppb	0.51	221.40	0.09	20	
63	Cu	72	1	173.50	ppb	0.51	172.50	0.58	20	
66	Zn	72	1	351.40	ppb	0.40	345.10	1.81	20	
75	As	72	1	50.82	ppb	0.90	50.80	0.04	20	
78	Se	72	1	33.94	ppb	5.40	34.34	1.17	20	
95	Mo	72	1	25.90	ppb	1.12	25.92	0.08	20	
107	Ag	115	1	34.58	ppb	0.96	34.81	0.66	20	
111	Cd	115	1	40.30	ppb	1.73	40.92	1.53	20	
118	Sn	115	1	11.36	ppb	2.62	11.33	0.26	20	
121	Sb	115	1	1.44	ppb	1.64	1.42	1.40	20	
137	Ba	115	1	729.90	ppb	2.15	725.30	0.63	20	
205	Tl	165	1	39.34	ppb	1.14	39.31	0.08	20	
208	Pb	165	1	477.90	ppb	0.88	461.40	3.51	20	
232	Th	165	1	58.09	ppb	0.59	57.41	1.18	20	
238	U	165	1	44.34	ppb	0.96	44.04	0.68	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	470897	1.81	536694	87.7	30 - 120	
45	Sc	1	2978508	0.23	2857458	104.2	30 - 120	
72	Ge	1	1551756	0.61	1703453	91.1	30 - 120	
115	In	1	4266046	0.98	4777220	89.3	30 - 120	
165	Ho	1	8780471	0.68	9746194	90.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\045SMPL.D\045SMPL.D#
Date Acquired:	Nov 3 2011 12:01 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22003-a-2-j
Misc Info:	
Vial Number:	2309
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.63	2.63	ppb	6.76	3600	
51	V	72	1	282.20	282.20	ppb	1.28	3600	
52	Cr	72	1	116.00	116.00	ppb	1.80	3600	
55	Mn	72	1	2,698.00	2698.00	ppb	1.06	18000	
59	Co	72	1	74.08	74.08	ppb	1.75	3600	
60	Ni	72	1	235.00	235.00	ppb	0.44	3600	
63	Cu	72	1	242.80	242.80	ppb	1.17	3600	
66	Zn	72	1	396.20	396.20	ppb	1.14	3600	
75	As	72	1	27.19	27.19	ppb	1.12	3600	
78	Se	72	1	4.49	4.49	ppb	6.70	3600	
95	Mo	72	1	1.37	1.37	ppb	2.51	3600	
107	Ag	115	1	0.31	0.31	ppb	2.26	3600	
111	Cd	115	1	2.26	2.26	ppb	0.74	3600	
118	Sn	115	1	1.24	1.24	ppb	1.07	3600	
121	Sb	115	1	1.20	1.20	ppb	1.93	3600	
137	Ba	115	1	589.70	589.70	ppb	0.84	3600	
205	Tl	165	1	0.47	0.47	ppb	2.07	3600	
208	Pb	165	1	1,458.00	1458.00	ppb	1.29	3600	
232	Th	165	1	12.68	12.68	ppb	2.22	1000	
238	U	165	1	2.55	2.55	ppb	1.56	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	467153	0.59	536694	87.0	30 - 120	
45	Sc	1	2827355	1.17	2857458	98.9	30 - 120	
72	Ge	1	1556326	0.67	1703453	91.4	30 - 120	
115	In	1	4279658	1.24	4777220	89.6	30 - 120	
165	Ho	1	8906589	0.95	9746194	91.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\046_CCV.D\046_CCV.D#
Date Acquired:	Nov 3 2011 12:03 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.37	ppb	1.58	50	102.7	90 - 110	
51	V	72	1	51.83	ppb	0.47	50	103.7	90 - 110	
52	Cr	72	1	51.59	ppb	1.37	50	103.2	90 - 110	
55	Mn	72	1	51.46	ppb	1.14	50	102.9	90 - 110	
59	Co	72	1	53.03	ppb	2.44	50	106.1	90 - 110	
60	Ni	72	1	51.81	ppb	0.84	50	103.6	90 - 110	
63	Cu	72	1	51.60	ppb	1.57	50	103.2	90 - 110	
66	Zn	72	1	50.07	ppb	0.23	50	100.1	90 - 110	
75	As	72	1	50.91	ppb	1.12	50	101.8	90 - 110	
78	Se	72	1	51.19	ppb	0.53	50	102.4	90 - 110	
95	Mo	72	1	50.96	ppb	0.83	50	101.9	90 - 110	
107	Ag	115	1	50.91	ppb	0.67	50	101.8	90 - 110	
111	Cd	115	1	49.39	ppb	0.90	50	98.8	90 - 110	
118	Sn	115	1	48.36	ppb	1.13	50	96.7	90 - 110	
121	Sb	115	1	47.90	ppb	0.66	50	95.8	90 - 110	
137	Ba	115	1	50.85	ppb	0.23	50	101.7	90 - 110	
205	Tl	165	1	51.61	ppb	1.04	50	103.2	90 - 110	
208	Pb	165	1	49.96	ppb	1.41	50	99.9	90 - 110	
232	Th	165	1	50.30	ppb	1.38	50	100.6	90 - 110	
238	U	165	1	49.39	ppb	1.79	50	98.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	504311	1.08	536694	94.0	30 - 120	
45	Sc	1	2786229	0.62	2857458	97.5	30 - 120	
72	Ge	1	1659519	0.30	1703453	97.4	30 - 120	
115	In	1	4767132	0.51	4777220	99.8	30 - 120	
165	Ho	1	9548948	1.21	9746194	98.0	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\047_CCB.D\047_CCB.D#
Date Acquired: Nov 3 2011 12:07 am
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.005	ppb	164.15	1.00	
51	V	72	1	0.000	ppb	2956.80	1.00	
52	Cr	72	1	0.002	ppb	528.49	1.00	
55	Mn	72	1	0.165	ppb	7.23	1.00	
59	Co	72	1	0.012	ppb	17.46	1.00	
60	Ni	72	1	0.074	ppb	16.83	1.00	
63	Cu	72	1	0.040	ppb	13.72	1.00	
66	Zn	72	1	0.084	ppb	20.17	1.00	
75	As	72	1	0.019	ppb	37.16	1.00	
78	Se	72	1	0.182	ppb	27.30	1.00	
95	Mo	72	1	0.021	ppb	24.11	1.00	
107	Ag	115	1	0.010	ppb	8.31	1.00	
111	Cd	115	1	0.015	ppb	55.09	1.00	
118	Sn	115	1	0.064	ppb	12.72	1.00	
121	Sb	115	1	0.018	ppb	9.49	1.00	
137	Ba	115	1	0.033	ppb	22.48	1.00	
205	Tl	165	1	0.025	ppb	13.40	1.00	
208	Pb	165	1	0.051	ppb	2.80	1.00	
232	Th	165	1	0.026	ppb	8.20	1.00	
238	U	165	1	0.012	ppb	1.01	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	508057	0.48	536694	94.7	30 - 120	
45	Sc	1	2795527	1.45	2857458	97.8	30 - 120	
72	Ge	1	1717846	0.25	1703453	100.8	30 - 120	
115	In	1	4829513	1.07	4777220	101.1	30 - 120	
165	Ho	1	9661039	1.13	9746194	99.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\048WASH.D\048WASH.D#
Date Acquired: Nov 3 2011 12:09 am
Operator: LRD
Sample Name: LLICV-1106830
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.110 ppb	2.10	1.30	
51	V	72	1	4.858 ppb	0.82	6.50	
52	Cr	72	1	2.185 ppb	0.40	2.60	
55	Mn	72	1	1.245 ppb	1.23	1.30	
59	Co	72	1	1.095 ppb	1.39	1.30	
60	Ni	72	1	2.324 ppb	1.55	2.60	
63	Cu	72	1	2.168 ppb	1.50	2.60	
66	Zn	72	1	10.240 ppb	1.13	13.00	
75	As	72	1	5.071 ppb	1.76	6.50	
78	Se	72	1	4.870 ppb	2.19	6.50	
95	Mo	72	1	2.139 ppb	1.55	2.60	
107	Ag	115	1	4.979 ppb	0.64	6.50	
111	Cd	115	1	1.049 ppb	2.18	1.30	
118	Sn	115	1	9.787 ppb	1.39	13.00	
121	Sb	115	1	1.976 ppb	1.06	2.60	
137	Ba	115	1	1.104 ppb	2.62	1.30	
205	Tl	165	1	1.070 ppb	3.38	1.30	
208	Pb	165	1	1.081 ppb	2.00	1.30	
232	Th	165	1	2.035 ppb	1.19	2.60	
238	U	165	1	1.033 ppb	0.84	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	508474	1.06	536694	94.7	30 - 120	
45	Sc	1	2854260	0.88	2857458	99.9	30 - 120	
72	Ge	1	1729804	1.29	1703453	101.5	30 - 120	
115	In	1	4868416	1.07	4777220	101.9	30 - 120	
165	Ho	1	9797804	1.66	9746194	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\049_BLK.D\049_BLK.D#
Date Acquired: Nov 3 2011 12:12 am
Operator: LRD
Sample Name: mb 280-94294/1-a
Misc Info: BLANK 94294 Soil DoD4/6020A
Vial Number: 2310
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.009	ppb	1.21	2.00	
51	V	72	1	-0.004	ppb	421.74	2.00	
52	Cr	72	1	0.086	ppb	20.53	2.00	
55	Mn	72	1	0.149	ppb	3.67	2.00	
59	Co	72	1	0.009	ppb	14.50	2.00	
60	Ni	72	1	0.047	ppb	22.49	2.00	
63	Cu	72	1	0.200	ppb	6.14	2.00	
66	Zn	72	1	0.414	ppb	5.51	2.00	
75	As	72	1	0.007	ppb	90.90	2.00	
78	Se	72	1	0.138	ppb	59.02	2.00	
95	Mo	72	1	0.021	ppb	9.35	2.00	
107	Ag	115	1	0.009	ppb	13.01	2.00	
111	Cd	115	1	0.012	ppb	27.28	2.00	
118	Sn	115	1	0.088	ppb	14.10	2.00	
121	Sb	115	1	0.014	ppb	17.84	2.00	
137	Ba	115	1	0.101	ppb	15.12	2.00	
205	Tl	165	1	0.016	ppb	10.69	2.00	
208	Pb	165	1	0.044	ppb	1.93	2.00	
232	Th	165	1	0.017	ppb	3.11	2.00	
238	U	165	1	0.009	ppb	4.54	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	515529	0.83	536694	96.1	30 - 120	
45	Sc	1	2857001	1.37	2857458	100.0	30 - 120	
72	Ge	1	1716680	1.93	1703453	100.8	30 - 120	
115	In	1	4889748	0.35	4777220	102.4	30 - 120	
165	Ho	1	9798560	1.22	9746194	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\050_LCS.D\050_LCS.D#
Date Acquired:	Nov 3 2011 12:15 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-94294/2-a
Misc Info:	LCS
Vial Number:	2311
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.74	1.00	40	101.9	80 - 120	
51	V	72	1	40.20	4.47	40	100.5	80 - 120	
52	Cr	72	1	40.81	1.41	40	102.0	80 - 120	
55	Mn	72	1	39.28	1.19	40	98.2	80 - 120	
59	Co	72	1	42.60	0.96	40	106.5	80 - 120	
60	Ni	72	1	41.41	1.69	40	103.5	80 - 120	
63	Cu	72	1	40.39	0.80	40	101.0	80 - 120	
66	Zn	72	1	38.14	1.17	40	95.4	80 - 120	
75	As	72	1	39.17	1.01	40	97.9	80 - 120	
78	Se	72	1	38.46	4.08	40	96.2	80 - 120	
95	Mo	72	1	40.44	0.83	40	101.1	80 - 120	
107	Ag	115	1	40.52	0.79	40	101.3	80 - 120	
111	Cd	115	1	38.95	0.31	40	97.4	80 - 120	
118	Sn	115	1	38.47	1.04	40	96.2	80 - 120	
121	Sb	115	1	37.17	1.05	40	92.9	80 - 120	
137	Ba	115	1	40.39	0.57	40	101.0	80 - 120	
205	Tl	165	1	41.03	0.91	40	102.6	80 - 120	
208	Pb	165	1	40.19	0.61	40	100.5	80 - 120	
232	Th	165	1	39.53	1.86	40	98.8	80 - 120	
238	U	165	1	40.26	0.83	40	100.7	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	520419	0.91	536694	97.0	30 - 120	
45	Sc	1	2879439	2.32	2857458	100.8	30 - 120	
72	Ge	1	1735157	0.16	1703453	101.9	30 - 120	
115	In	1	4910259	0.52	4777220	102.8	30 - 120	
165	Ho	1	9763055	0.11	9746194	100.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\051AREF.D\051AREF.D#
Date Acquired:	Nov 3 2011 12:18 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-1-d
Misc Info:	
Vial Number:	2312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.22	0.22	ppb	6.51	3600	
51	V	72	1	20.35	20.35	ppb	0.68	3600	
52	Cr	72	1	11.19	11.19	ppb	0.63	3600	
55	Mn	72	1	128.50	128.50	ppb	1.15	18000	
59	Co	72	1	2.36	2.36	ppb	1.98	3600	
60	Ni	72	1	5.24	5.24	ppb	0.77	3600	
63	Cu	72	1	4.38	4.38	ppb	0.82	3600	
66	Zn	72	1	17.01	17.01	ppb	0.31	3600	
75	As	72	1	4.49	4.49	ppb	0.39	3600	
78	Se	72	1	1.87	1.87	ppb	15.94	3600	
95	Mo	72	1	0.52	0.52	ppb	6.48	3600	
107	Ag	115	1	0.05	0.05	ppb	7.57	3600	
111	Cd	115	1	0.13	0.13	ppb	34.31	3600	
118	Sn	115	1	0.20	0.20	ppb	5.61	3600	
121	Sb	115	1	0.04	0.04	ppb	12.86	3600	
137	Ba	115	1	10.79	10.79	ppb	1.09	3600	
205	Tl	165	1	0.18	0.18	ppb	7.35	3600	
208	Pb	165	1	11.90	11.90	ppb	2.27	3600	
232	Th	165	1	10.86	10.86	ppb	1.38	1000	
238	U	165	1	1.59	1.59	ppb	0.47	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	520975	0.66	536694	97.1	30 - 120	
45	Sc	1	2896027	1.05	2857458	101.3	30 - 120	
72	Ge	1	1709416	1.28	1703453	100.4	30 - 120	
115	In	1	4857765	0.65	4777220	101.7	30 - 120	
165	Ho	1	9791757	1.93	9746194	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\052SDIL.D\052SDIL.D#
Date Acquired: Nov 3 2011 12:21 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-1-d SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2401
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110211.B\051AREF.D\051AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.05	ppb	55.04	0.04	109.1	90 - 110	
51 V	72	1	4.01	ppb	3.26	4.07	98.6	90 - 110	
52 Cr	72	1	2.23	ppb	1.24	2.24	99.7	90 - 110	
55 Mn	72	1	24.19	ppb	1.07	25.70	94.1	90 - 110	
59 Co	72	1	0.46	ppb	1.22	0.47	98.3	90 - 110	
60 Ni	72	1	1.02	ppb	3.76	1.05	97.1	90 - 110	
63 Cu	72	1	0.88	ppb	0.89	0.88	100.1	90 - 110	
66 Zn	72	1	3.45	ppb	2.36	3.40	101.4	90 - 110	
75 As	72	1	0.90	ppb	0.90	0.90	99.8	90 - 110	
78 Se	72	1	0.45	ppb	61.52	0.37	121.6	90 - 110	
95 Mo	72	1	0.12	ppb	14.61	0.10	116.2	90 - 110	
107 Ag	115	1	0.01	ppb	13.09	0.01	99.3	90 - 110	
111 Cd	115	1	0.03	ppb	15.72	0.03	119.9	90 - 110	
118 Sn	115	1	0.06	ppb	39.97	0.04	139.1	90 - 110	
121 Sb	115	1	0.01	ppb	10.66	0.01	152.4	90 - 110	
137 Ba	115	1	2.15	ppb	2.30	2.16	99.8	90 - 110	
205 Tl	165	1	0.04	ppb	2.71	0.04	103.0	90 - 110	
208 Pb	165	1	2.39	ppb	1.14	2.38	100.5	90 - 110	
232 Th	165	1	2.14	ppb	0.71	2.17	98.3	90 - 110	
238 U	165	1	0.32	ppb	0.24	0.32	100.5	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	526355	0.95	536694	98.1	30 - 120	
45 Sc	1	2890068	2.01	2857458	101.1	30 - 120	
72 Ge	1	1737397	0.33	1703453	102.0	30 - 120	
115 In	1	4882745	0.52	4777220	102.2	30 - 120	
165 Ho	1	9789592	0.25	9746194	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\053PDS.D\053PDS.D#
Date Acquired:	Nov 3 2011 12:24 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-1-d PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	2402
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	209.30	0.22	ppb	1.56	200	104.5	75 - 125	
51 V	72	1	218.90	20.35	ppb	0.77	200	99.3	75 - 125	
52 Cr	72	1	210.80	11.19	ppb	1.48	200	99.8	75 - 125	
55 Mn	72	1	321.20	128.50	ppb	1.49	200	97.8	75 - 125	
59 Co	72	1	205.10	2.36	ppb	1.06	200	101.4	75 - 125	
60 Ni	72	1	221.50	5.24	ppb	0.71	200	107.9	75 - 125	
63 Cu	72	1	205.50	4.38	ppb	1.55	200	100.5	75 - 125	
66 Zn	72	1	210.70	17.01	ppb	1.35	200	97.1	75 - 125	
75 As	72	1	206.50	4.49	ppb	0.58	200	101.0	75 - 125	
78 Se	72	1	198.30	1.87	ppb	1.62	200	98.2	75 - 125	
95 Mo	72	1	210.80	0.52	ppb	1.79	200	105.1	75 - 125	
107 Ag	115	1	51.15	0.05	ppb	0.86	50	102.2	75 - 125	
111 Cd	115	1	200.80	0.13	ppb	1.31	200	100.3	75 - 125	
118 Sn	115	1	201.80	0.20	ppb	1.94	200	100.8	75 - 125	
121 Sb	115	1	198.10	0.04	ppb	1.90	200	99.0	75 - 125	
137 Ba	115	1	226.40	10.79	ppb	1.80	200	107.4	75 - 125	
205 Tl	165	1	199.10	0.18	ppb	1.03	200	99.5	75 - 125	
208 Pb	165	1	207.00	11.90	ppb	1.13	200	97.7	75 - 125	
232 Th	165	1	10.67	10.86	ppb	1.17	200	5.1	75 - 125	
238 U	165	1	193.30	1.59	ppb	1.25	200	95.9	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	517685	1.18	536694	96.5	30 - 120	
45 Sc	1	2851788	0.10	2857458	99.8	30 - 120	
72 Ge	1	1688324	0.08	1703453	99.1	30 - 120	
115 In	1	4782101	1.13	4777220	100.1	30 - 120	
165 Ho	1	9802395	1.39	9746194	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\054_MS.D\054_MS.D#
Date Acquired:	Nov 3 2011 12:27 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-1-e ms
Misc Info:	MATRIX SPIKE
Vial Number:	2403
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	42.75	0.22	ppb	2.13	40	106.3	50 - 150	
51 V	72	1	61.70	20.35	ppb	0.59	40	102.2	50 - 150	
52 Cr	72	1	52.32	11.19	ppb	0.49	40	102.2	50 - 150	
55 Mn	72	1	168.50	128.50	ppb	0.87	40	100.0	50 - 150	
59 Co	72	1	44.62	2.36	ppb	1.04	40	105.3	50 - 150	
60 Ni	72	1	45.85	5.24	ppb	0.70	40	101.4	50 - 150	
63 Cu	72	1	44.22	4.38	ppb	1.14	40	99.6	50 - 150	
66 Zn	72	1	52.83	17.01	ppb	0.48	40	92.7	50 - 150	
75 As	72	1	42.27	4.49	ppb	0.52	40	95.0	50 - 150	
78 Se	72	1	39.89	1.87	ppb	2.77	40	95.3	50 - 150	
95 Mo	72	1	37.84	0.52	ppb	0.93	40	93.4	50 - 150	
107 Ag	115	1	40.66	0.05	ppb	1.47	40	101.5	50 - 150	
111 Cd	115	1	40.15	0.13	ppb	0.96	40	100.1	50 - 150	
118 Sn	115	1	7.83	0.20	ppb	1.52	40	19.5	50 - 150	
121 Sb	115	1	6.57	0.04	ppb	1.58	40	16.4	50 - 150	
137 Ba	115	1	53.02	10.79	ppb	0.82	40	104.4	50 - 150	
205 Tl	165	1	41.30	0.18	ppb	1.75	40	102.8	50 - 150	
208 Pb	165	1	52.08	11.90	ppb	0.69	40	100.3	50 - 150	
232 Th	165	1	48.58	10.86	ppb	0.55	40	95.5	50 - 150	
238 U	165	1	41.88	1.59	ppb	0.71	40	100.7	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	524337	0.63	536694	97.7	30 - 120	
45 Sc	1	2876793	1.21	2857458	100.7	30 - 120	
72 Ge	1	1714775	0.82	1703453	100.7	30 - 120	
115 In	1	4805900	1.14	4777220	100.6	30 - 120	
165 Ho	1	9758292	0.24	9746194	100.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\055_MSD.D\055_MSD.D#
Date Acquired: Nov 3 2011 12:30 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-1-f msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 2404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110211.B\054_MS.D\054_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	42.85	ppb	1.12	42.75	0.23	20	
51	V	72	1	63.21	ppb	1.62	61.70	2.42	20	
52	Cr	72	1	52.71	ppb	2.78	52.32	0.74	20	
55	Mn	72	1	168.30	ppb	1.48	168.50	0.12	20	
59	Co	72	1	45.81	ppb	1.32	44.62	2.63	20	
60	Ni	72	1	46.96	ppb	0.29	45.85	2.39	20	
63	Cu	72	1	44.84	ppb	0.66	44.22	1.39	20	
66	Zn	72	1	56.28	ppb	1.23	52.83	6.32	20	
75	As	72	1	44.11	ppb	0.65	42.27	4.26	20	
78	Se	72	1	41.00	ppb	3.27	39.89	2.74	20	
95	Mo	72	1	37.89	ppb	1.21	37.84	0.13	20	
107	Ag	115	1	40.81	ppb	1.85	40.66	0.37	20	
111	Cd	115	1	40.61	ppb	0.51	40.15	1.14	20	
118	Sn	115	1	7.83	ppb	1.58	7.83	0.05	20	
121	Sb	115	1	6.20	ppb	2.30	6.57	5.79	20	
137	Ba	115	1	53.49	ppb	1.57	53.02	0.88	20	
205	Tl	165	1	41.36	ppb	0.71	41.30	0.15	20	
208	Pb	165	1	51.92	ppb	0.61	52.08	0.31	20	
232	Th	165	1	48.43	ppb	0.91	48.58	0.31	20	
238	U	165	1	42.05	ppb	0.99	41.88	0.41	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	517829	0.30	536694	96.5	30 - 120	
45	Sc	1	2882554	1.19	2857458	100.9	30 - 120	
72	Ge	1	1694958	0.31	1703453	99.5	30 - 120	
115	In	1	4775400	1.30	4777220	100.0	30 - 120	
165	Ho	1	9843987	0.29	9746194	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\056SMPL.D\056SMPL.D#
Date Acquired: Nov 3 2011 12:32 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-5-b
Misc Info:
Vial Number: 2405
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.20	0.20	ppb	44.10	3600	
51	V	72	1	16.70	16.70	ppb	1.64	3600	
52	Cr	72	1	7.71	7.71	ppb	0.85	3600	
55	Mn	72	1	84.35	84.35	ppb	0.56	18000	
59	Co	72	1	1.10	1.10	ppb	2.63	3600	
60	Ni	72	1	3.25	3.25	ppb	3.69	3600	
63	Cu	72	1	4.06	4.06	ppb	0.84	3600	
66	Zn	72	1	11.97	11.97	ppb	1.17	3600	
75	As	72	1	3.30	3.30	ppb	1.35	3600	
78	Se	72	1	1.41	1.41	ppb	15.04	3600	
95	Mo	72	1	0.47	0.47	ppb	7.74	3600	
107	Ag	115	1	0.05	0.05	ppb	5.86	3600	
111	Cd	115	1	0.09	0.09	ppb	15.30	3600	
118	Sn	115	1	0.14	0.14	ppb	7.78	3600	
121	Sb	115	1	0.04	0.04	ppb	7.27	3600	
137	Ba	115	1	8.79	8.79	ppb	0.59	3600	
205	Tl	165	1	0.13	0.13	ppb	4.00	3600	
208	Pb	165	1	9.32	9.32	ppb	0.50	3600	
232	Th	165	1	6.68	6.68	ppb	0.36	1000	
238	U	165	1	0.99	0.99	ppb	0.53	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	534195	1.05	536694	99.5	30 - 120	
45	Sc	1	2872983	1.94	2857458	100.5	30 - 120	
72	Ge	1	1725005	1.32	1703453	101.3	30 - 120	
115	In	1	4854183	0.91	4777220	101.6	30 - 120	
165	Ho	1	9797565	0.50	9746194	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\057_CCV.D\057_CCV.D#
Date Acquired:	Nov 3 2011 12:35 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.72	ppb	1.02	50	103.4	90 - 110	
51	V	72	1	50.49	ppb	0.19	50	101.0	90 - 110	
52	Cr	72	1	50.82	ppb	1.34	50	101.6	90 - 110	
55	Mn	72	1	50.87	ppb	2.37	50	101.7	90 - 110	
59	Co	72	1	52.95	ppb	1.92	50	105.9	90 - 110	
60	Ni	72	1	51.63	ppb	1.14	50	103.3	90 - 110	
63	Cu	72	1	51.77	ppb	1.40	50	103.5	90 - 110	
66	Zn	72	1	49.87	ppb	0.44	50	99.7	90 - 110	
75	As	72	1	50.75	ppb	1.16	50	101.5	90 - 110	
78	Se	72	1	49.48	ppb	1.28	50	99.0	90 - 110	
95	Mo	72	1	50.10	ppb	0.49	50	100.2	90 - 110	
107	Ag	115	1	50.86	ppb	1.31	50	101.7	90 - 110	
111	Cd	115	1	49.00	ppb	0.22	50	98.0	90 - 110	
118	Sn	115	1	47.91	ppb	1.10	50	95.8	90 - 110	
121	Sb	115	1	47.25	ppb	0.54	50	94.5	90 - 110	
137	Ba	115	1	50.09	ppb	1.04	50	100.2	90 - 110	
205	Tl	165	1	51.27	ppb	1.30	50	102.5	90 - 110	
208	Pb	165	1	49.86	ppb	0.46	50	99.7	90 - 110	
232	Th	165	1	50.36	ppb	1.70	50	100.7	90 - 110	
238	U	165	1	49.60	ppb	1.68	50	99.2	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	521958	0.32	536694	97.3	30 - 120	
45	Sc	1	2855146	2.01	2857458	99.9	30 - 120	
72	Ge	1	1722500	0.22	1703453	101.1	30 - 120	
115	In	1	4926433	1.23	4777220	103.1	30 - 120	
165	Ho	1	9697135	0.39	9746194	99.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\058_CCB.D\058_CCB.D#
Date Acquired: Nov 3 2011 12:38 am
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.005	ppb	336.18	1.00	
51	V	72	1	0.010	ppb	126.29	1.00	
52	Cr	72	1	0.004	ppb	470.37	1.00	
55	Mn	72	1	0.065	ppb	9.61	1.00	
59	Co	72	1	0.011	ppb	9.85	1.00	
60	Ni	72	1	0.053	ppb	12.91	1.00	
63	Cu	72	1	0.036	ppb	10.61	1.00	
66	Zn	72	1	0.066	ppb	19.31	1.00	
75	As	72	1	0.012	ppb	46.36	1.00	
78	Se	72	1	0.004	ppb	5145.00	1.00	
95	Mo	72	1	0.024	ppb	2.10	1.00	
107	Ag	115	1	0.011	ppb	3.45	1.00	
111	Cd	115	1	0.010	ppb	15.81	1.00	
118	Sn	115	1	0.076	ppb	13.20	1.00	
121	Sb	115	1	0.018	ppb	19.05	1.00	
137	Ba	115	1	0.021	ppb	21.39	1.00	
205	Tl	165	1	0.028	ppb	12.63	1.00	
208	Pb	165	1	0.019	ppb	3.83	1.00	
232	Th	165	1	0.039	ppb	5.38	1.00	
238	U	165	1	0.014	ppb	2.50	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	520342	0.40	536694	97.0	30 - 120	
45	Sc	1	2872344	1.23	2857458	100.5	30 - 120	
72	Ge	1	1742159	1.86	1703453	102.3	30 - 120	
115	In	1	4876620	1.10	4777220	102.1	30 - 120	
165	Ho	1	9794585	0.32	9746194	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\059WASH.D\059WASH.D#
Date Acquired:	Nov 3 2011 12:41 am
Operator:	LRD
Sample Name:	LLICV-1106830
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.084 ppb	10.05	1.30	
51 V	72	1	4.929 ppb	1.13	6.50	
52 Cr	72	1	2.184 ppb	2.21	2.60	
55 Mn	72	1	1.234 ppb	1.89	1.30	
59 Co	72	1	1.107 ppb	0.75	1.30	
60 Ni	72	1	2.318 ppb	2.30	2.60	
63 Cu	72	1	2.222 ppb	2.33	2.60	
66 Zn	72	1	10.380 ppb	1.72	13.00	
75 As	72	1	5.117 ppb	3.61	6.50	
78 Se	72	1	4.994 ppb	6.49	6.50	
95 Mo	72	1	2.143 ppb	3.22	2.60	
107 Ag	115	1	4.995 ppb	1.42	6.50	
111 Cd	115	1	1.075 ppb	1.81	1.30	
118 Sn	115	1	9.868 ppb	2.81	13.00	
121 Sb	115	1	1.963 ppb	1.73	2.60	
137 Ba	115	1	1.094 ppb	1.33	1.30	
205 Tl	165	1	1.085 ppb	0.62	1.30	
208 Pb	165	1	1.075 ppb	0.68	1.30	
232 Th	165	1	2.037 ppb	2.22	2.60	
238 U	165	1	1.035 ppb	0.77	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	518265	0.67	536694	96.6	30 - 120	
45 Sc	1	2865547	1.82	2857458	100.3	30 - 120	
72 Ge	1	1725257	1.83	1703453	101.3	30 - 120	
115 In	1	4923511	0.60	4777220	103.1	30 - 120	
165 Ho	1	9773835	0.52	9746194	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\060SMPL.D\060SMPL.D#
Date Acquired:	Nov 3 2011 12:44 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-6-d
Misc Info:	
Vial Number:	2406
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	15.90	3600	
51	V	72	1	19.49	19.49	ppb	0.69	3600	
52	Cr	72	1	10.53	10.53	ppb	0.41	3600	
55	Mn	72	1	94.61	94.61	ppb	1.40	18000	
59	Co	72	1	1.68	1.68	ppb	0.61	3600	
60	Ni	72	1	5.40	5.40	ppb	1.59	3600	
63	Cu	72	1	4.13	4.13	ppb	3.17	3600	
66	Zn	72	1	15.71	15.71	ppb	0.10	3600	
75	As	72	1	3.78	3.78	ppb	2.00	3600	
78	Se	72	1	1.50	1.50	ppb	27.69	3600	
95	Mo	72	1	0.55	0.55	ppb	5.51	3600	
107	Ag	115	1	0.04	0.04	ppb	3.98	3600	
111	Cd	115	1	0.08	0.08	ppb	19.90	3600	
118	Sn	115	1	0.15	0.15	ppb	0.89	3600	
121	Sb	115	1	0.03	0.03	ppb	0.37	3600	
137	Ba	115	1	12.20	12.20	ppb	1.73	3600	
205	Tl	165	1	0.12	0.12	ppb	3.13	3600	
208	Pb	165	1	8.76	8.76	ppb	1.02	3600	
232	Th	165	1	8.39	8.39	ppb	0.55	1000	
238	U	165	1	1.28	1.28	ppb	0.30	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	529924	0.35	536694	98.7	30 - 120	
45	Sc	1	2918544	1.20	2857458	102.1	30 - 120	
72	Ge	1	1726281	1.22	1703453	101.3	30 - 120	
115	In	1	4882310	0.37	4777220	102.2	30 - 120	
165	Ho	1	9792653	1.32	9746194	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\061SMPL.D\061SMPL.D#
Date Acquired:	Nov 3 2011 12:47 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-7-d
Misc Info:	
Vial Number:	2407
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.28	0.28	ppb	26.37	3600	
51	V	72	1	13.01	13.01	ppb	1.63	3600	
52	Cr	72	1	7.16	7.16	ppb	1.16	3600	
55	Mn	72	1	171.50	171.50	ppb	0.86	18000	
59	Co	72	1	3.80	3.80	ppb	1.51	3600	
60	Ni	72	1	5.67	5.67	ppb	0.56	3600	
63	Cu	72	1	4.83	4.83	ppb	1.01	3600	
66	Zn	72	1	16.67	16.67	ppb	1.45	3600	
75	As	72	1	3.48	3.48	ppb	0.22	3600	
78	Se	72	1	1.25	1.25	ppb	7.43	3600	
95	Mo	72	1	0.37	0.37	ppb	5.80	3600	
107	Ag	115	1	0.04	0.04	ppb	9.06	3600	
111	Cd	115	1	0.07	0.07	ppb	24.95	3600	
118	Sn	115	1	0.13	0.13	ppb	16.66	3600	
121	Sb	115	1	0.03	0.03	ppb	10.00	3600	
137	Ba	115	1	8.88	8.88	ppb	1.03	3600	
205	Tl	165	1	0.11	0.11	ppb	2.27	3600	
208	Pb	165	1	10.66	10.66	ppb	1.62	3600	
232	Th	165	1	6.69	6.69	ppb	2.06	1000	
238	U	165	1	1.03	1.03	ppb	1.66	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	527439	1.41	536694	98.3	30 - 120	
45	Sc	1	2931998	1.39	2857458	102.6	30 - 120	
72	Ge	1	1710899	0.28	1703453	100.4	30 - 120	
115	In	1	4967337	0.67	4777220	104.0	30 - 120	
165	Ho	1	9761637	1.08	9746194	100.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\062SMPL.D\062SMPL.D#
Date Acquired:	Nov 3 2011 12:50 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-8-d
Misc Info:	
Vial Number:	2408
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.18	0.18	ppb	7.44	3600	
51	V	72	1	9.06	9.06	ppb	0.99	3600	
52	Cr	72	1	4.75	4.75	ppb	0.80	3600	
55	Mn	72	1	152.60	152.60	ppb	1.03	18000	
59	Co	72	1	2.85	2.85	ppb	1.16	3600	
60	Ni	72	1	4.31	4.31	ppb	0.69	3600	
63	Cu	72	1	5.22	5.22	ppb	0.95	3600	
66	Zn	72	1	12.24	12.24	ppb	0.84	3600	
75	As	72	1	2.64	2.64	ppb	2.49	3600	
78	Se	72	1	0.69	0.69	ppb	14.49	3600	
95	Mo	72	1	0.23	0.23	ppb	7.78	3600	
107	Ag	115	1	0.02	0.02	ppb	18.70	3600	
111	Cd	115	1	0.06	0.06	ppb	18.89	3600	
118	Sn	115	1	0.10	0.10	ppb	12.48	3600	
121	Sb	115	1	0.02	0.02	ppb	4.74	3600	
137	Ba	115	1	5.82	5.82	ppb	0.75	3600	
205	Tl	165	1	0.08	0.08	ppb	2.51	3600	
208	Pb	165	1	6.23	6.23	ppb	1.99	3600	
232	Th	165	1	2.83	2.83	ppb	1.55	1000	
238	U	165	1	0.61	0.61	ppb	2.86	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	527408	0.12	536694	98.3	30 - 120	
45	Sc	1	2935535	0.63	2857458	102.7	30 - 120	
72	Ge	1	1740356	1.35	1703453	102.2	30 - 120	
115	In	1	4918049	1.28	4777220	102.9	30 - 120	
165	Ho	1	9975495	1.61	9746194	102.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\063SMPL.D\063SMPL.D#
Date Acquired:	Nov 3 2011 12:53 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-9-d
Misc Info:	
Vial Number:	2409
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.29	0.29	ppb	18.75	3600	
51	V	72	1	12.47	12.47	ppb	1.18	3600	
52	Cr	72	1	6.52	6.52	ppb	0.39	3600	
55	Mn	72	1	140.00	140.00	ppb	0.63	18000	
59	Co	72	1	2.74	2.74	ppb	0.81	3600	
60	Ni	72	1	4.41	4.41	ppb	1.24	3600	
63	Cu	72	1	4.44	4.44	ppb	0.69	3600	
66	Zn	72	1	14.03	14.03	ppb	0.38	3600	
75	As	72	1	3.46	3.46	ppb	1.64	3600	
78	Se	72	1	0.92	0.92	ppb	29.46	3600	
95	Mo	72	1	0.35	0.35	ppb	6.39	3600	
107	Ag	115	1	0.03	0.03	ppb	8.42	3600	
111	Cd	115	1	0.07	0.07	ppb	27.08	3600	
118	Sn	115	1	0.14	0.14	ppb	6.37	3600	
121	Sb	115	1	0.03	0.03	ppb	5.54	3600	
137	Ba	115	1	8.17	8.17	ppb	0.85	3600	
205	Tl	165	1	0.09	0.09	ppb	1.36	3600	
208	Pb	165	1	9.32	9.32	ppb	1.08	3600	
232	Th	165	1	4.97	4.97	ppb	1.60	1000	
238	U	165	1	0.89	0.89	ppb	1.51	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	530926	0.81	536694	98.9	30 - 120	
45	Sc	1	2926524	1.59	2857458	102.4	30 - 120	
72	Ge	1	1738917	0.74	1703453	102.1	30 - 120	
115	In	1	4927301	1.57	4777220	103.1	30 - 120	
165	Ho	1	10043244	0.31	9746194	103.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\064SMPL.D\064SMPL.D#
Date Acquired:	Nov 3 2011 12:56 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-10-b
Misc Info:	
Vial Number:	2410
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.21	0.21	ppb	12.92	3600	
51	V	72	1	17.29	17.29	ppb	1.13	3600	
52	Cr	72	1	10.89	10.89	ppb	0.80	3600	
55	Mn	72	1	69.56	69.56	ppb	0.99	18000	
59	Co	72	1	1.37	1.37	ppb	1.89	3600	
60	Ni	72	1	5.36	5.36	ppb	0.59	3600	
63	Cu	72	1	2.24	2.24	ppb	1.58	3600	
66	Zn	72	1	12.12	12.12	ppb	0.91	3600	
75	As	72	1	2.95	2.95	ppb	3.74	3600	
78	Se	72	1	1.66	1.66	ppb	12.62	3600	
95	Mo	72	1	0.39	0.39	ppb	6.55	3600	
107	Ag	115	1	0.04	0.04	ppb	9.84	3600	
111	Cd	115	1	0.05	0.05	ppb	47.33	3600	
118	Sn	115	1	0.15	0.15	ppb	12.45	3600	
121	Sb	115	1	0.02	0.02	ppb	10.30	3600	
137	Ba	115	1	10.49	10.49	ppb	0.98	3600	
205	Tl	165	1	0.09	0.09	ppb	3.88	3600	
208	Pb	165	1	7.20	7.20	ppb	0.81	3600	
232	Th	165	1	11.14	11.14	ppb	0.85	1000	
238	U	165	1	1.59	1.59	ppb	0.86	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	530013	0.99	536694	98.8	30 - 120	
45	Sc	1	2930489	0.56	2857458	102.6	30 - 120	
72	Ge	1	1732836	0.44	1703453	101.7	30 - 120	
115	In	1	4886741	0.19	4777220	102.3	30 - 120	
165	Ho	1	9902594	0.88	9746194	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\065SMPL.D\065SMPL.D#
Date Acquired: Nov 3 2011 12:59 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-11-f
Misc Info:
Vial Number: 2411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.12	0.12	ppb	26.52	3600	
51	V	72	1	17.25	17.25	ppb	1.72	3600	
52	Cr	72	1	7.85	7.85	ppb	1.30	3600	
55	Mn	72	1	73.89	73.89	ppb	3.64	18000	
59	Co	72	1	0.65	0.65	ppb	4.28	3600	
60	Ni	72	1	2.52	2.52	ppb	1.88	3600	
63	Cu	72	1	2.66	2.66	ppb	2.57	3600	
66	Zn	72	1	10.04	10.04	ppb	2.46	3600	
75	As	72	1	2.85	2.85	ppb	2.38	3600	
78	Se	72	1	1.67	1.67	ppb	12.72	3600	
95	Mo	72	1	0.46	0.46	ppb	1.58	3600	
107	Ag	115	1	0.04	0.04	ppb	4.96	3600	
111	Cd	115	1	0.09	0.09	ppb	15.64	3600	
118	Sn	115	1	0.12	0.12	ppb	10.49	3600	
121	Sb	115	1	0.03	0.03	ppb	4.26	3600	
137	Ba	115	1	8.69	8.69	ppb	1.36	3600	
205	Tl	165	1	0.08	0.08	ppb	1.19	3600	
208	Pb	165	1	10.37	10.37	ppb	1.23	3600	
232	Th	165	1	9.78	9.78	ppb	2.99	1000	
238	U	165	1	1.42	1.42	ppb	2.64	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	528696	0.48	536694	98.5	30 - 120	
45	Sc	1	2897589	1.07	2857458	101.4	30 - 120	
72	Ge	1	1727903	1.16	1703453	101.4	30 - 120	
115	In	1	4916686	1.12	4777220	102.9	30 - 120	
165	Ho	1	9778159	0.56	9746194	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\066SMPL.D\066SMPL.D#
Date Acquired: Nov 3 2011 01:02 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-12-d
Misc Info:
Vial Number: 2412
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.23	0.23	ppb	27.87	3600	
51	V	72	1	12.76	12.76	ppb	2.29	3600	
52	Cr	72	1	7.01	7.01	ppb	1.53	3600	
55	Mn	72	1	199.80	199.80	ppb	1.50	18000	
59	Co	72	1	3.23	3.23	ppb	1.62	3600	
60	Ni	72	1	4.81	4.81	ppb	1.96	3600	
63	Cu	72	1	4.82	4.82	ppb	1.07	3600	
66	Zn	72	1	14.57	14.57	ppb	1.69	3600	
75	As	72	1	3.83	3.83	ppb	0.82	3600	
78	Se	72	1	1.25	1.25	ppb	9.65	3600	
95	Mo	72	1	0.37	0.37	ppb	6.87	3600	
107	Ag	115	1	0.03	0.03	ppb	7.57	3600	
111	Cd	115	1	0.08	0.08	ppb	26.63	3600	
118	Sn	115	1	0.18	0.18	ppb	6.60	3600	
121	Sb	115	1	0.03	0.03	ppb	12.53	3600	
137	Ba	115	1	9.96	9.96	ppb	1.93	3600	
205	Tl	165	1	0.12	0.12	ppb	1.08	3600	
208	Pb	165	1	8.78	8.78	ppb	0.85	3600	
232	Th	165	1	6.80	6.80	ppb	2.06	1000	
238	U	165	1	1.16	1.16	ppb	1.12	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	533200	0.59	536694	99.3	30 - 120	
45	Sc	1	2944276	1.48	2857458	103.0	30 - 120	
72	Ge	1	1740673	0.96	1703453	102.2	30 - 120	
115	In	1	4924165	0.06	4777220	103.1	30 - 120	
165	Ho	1	9881820	0.74	9746194	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\067_CCV.D\067_CCV.D#
Date Acquired: Nov 3 2011 01:05 am
Operator: LRD
Sample Name: CCV-1106831
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.58	ppb	1.72	50	103.2	90 - 110	
51	V	72	1	50.26	ppb	0.40	50	100.5	90 - 110	
52	Cr	72	1	50.67	ppb	1.02	50	101.3	90 - 110	
55	Mn	72	1	50.90	ppb	0.83	50	101.8	90 - 110	
59	Co	72	1	52.48	ppb	0.47	50	105.0	90 - 110	
60	Ni	72	1	51.51	ppb	0.85	50	103.0	90 - 110	
63	Cu	72	1	51.62	ppb	0.99	50	103.2	90 - 110	
66	Zn	72	1	49.74	ppb	1.02	50	99.5	90 - 110	
75	As	72	1	50.43	ppb	0.87	50	100.9	90 - 110	
78	Se	72	1	49.98	ppb	3.91	50	100.0	90 - 110	
95	Mo	72	1	50.25	ppb	0.42	50	100.5	90 - 110	
107	Ag	115	1	51.71	ppb	0.67	50	103.4	90 - 110	
111	Cd	115	1	49.52	ppb	0.42	50	99.0	90 - 110	
118	Sn	115	1	48.68	ppb	1.43	50	97.4	90 - 110	
121	Sb	115	1	47.63	ppb	0.85	50	95.3	90 - 110	
137	Ba	115	1	50.63	ppb	0.78	50	101.3	90 - 110	
205	Tl	165	1	50.62	ppb	0.85	50	101.2	90 - 110	
208	Pb	165	1	49.01	ppb	0.83	50	98.0	90 - 110	
232	Th	165	1	48.98	ppb	1.28	50	98.0	90 - 110	
238	U	165	1	48.67	ppb	1.30	50	97.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	526165	0.71	536694	98.0	30 - 120	
45	Sc	1	2877365	1.02	2857458	100.7	30 - 120	
72	Ge	1	1745422	0.31	1703453	102.5	30 - 120	
115	In	1	4926461	0.71	4777220	103.1	30 - 120	
165	Ho	1	9835388	1.02	9746194	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\068_CCB.D\068_CCB.D#
Date Acquired: Nov 3 2011 01:07 am
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.009	ppb	147.97	1.00	
51	V	72	1	0.007	ppb	102.02	1.00	
52	Cr	72	1	0.003	ppb	301.98	1.00	
55	Mn	72	1	0.070	ppb	13.01	1.00	
59	Co	72	1	0.009	ppb	7.82	1.00	
60	Ni	72	1	0.047	ppb	24.32	1.00	
63	Cu	72	1	0.037	ppb	16.16	1.00	
66	Zn	72	1	0.071	ppb	10.25	1.00	
75	As	72	1	0.015	ppb	33.86	1.00	
78	Se	72	1	0.090	ppb	90.88	1.00	
95	Mo	72	1	0.018	ppb	20.04	1.00	
107	Ag	115	1	0.008	ppb	18.23	1.00	
111	Cd	115	1	0.013	ppb	44.83	1.00	
118	Sn	115	1	0.057	ppb	1.72	1.00	
121	Sb	115	1	0.015	ppb	16.07	1.00	
137	Ba	115	1	0.010	ppb	23.99	1.00	
205	Tl	165	1	0.022	ppb	13.29	1.00	
208	Pb	165	1	0.017	ppb	8.48	1.00	
232	Th	165	1	0.038	ppb	6.30	1.00	
238	U	165	1	0.012	ppb	3.14	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	528666	1.43	536694	98.5	30 - 120	
45	Sc	1	2918416	0.37	2857458	102.1	30 - 120	
72	Ge	1	1746952	0.51	1703453	102.6	30 - 120	
115	In	1	4936575	1.92	4777220	103.3	30 - 120	
165	Ho	1	9904956	0.33	9746194	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\069WASH.D\069WASH.D#
Date Acquired:	Nov 3 2011 01:10 am
Operator:	LRD
Sample Name:	LLICV-1106830
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.180 ppb	7.42	1.30	
51	V	72	1	4.890 ppb	0.05	6.50	
52	Cr	72	1	2.172 ppb	1.27	2.60	
55	Mn	72	1	1.215 ppb	0.65	1.30	
59	Co	72	1	1.115 ppb	1.87	1.30	
60	Ni	72	1	2.332 ppb	4.82	2.60	
63	Cu	72	1	2.201 ppb	2.33	2.60	
66	Zn	72	1	10.470 ppb	0.77	13.00	
75	As	72	1	5.268 ppb	1.71	6.50	
78	Se	72	1	5.396 ppb	2.42	6.50	
95	Mo	72	1	2.130 ppb	2.25	2.60	
107	Ag	115	1	5.013 ppb	1.04	6.50	
111	Cd	115	1	1.076 ppb	2.14	1.30	
118	Sn	115	1	9.934 ppb	0.61	13.00	
121	Sb	115	1	1.966 ppb	1.60	2.60	
137	Ba	115	1	1.135 ppb	3.27	1.30	
205	Tl	165	1	1.070 ppb	0.91	1.30	
208	Pb	165	1	1.070 ppb	1.50	1.30	
232	Th	165	1	2.012 ppb	1.36	2.60	
238	U	165	1	1.028 ppb	0.47	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	530895	1.42	536694	98.9	30 - 120	
45	Sc	1	2907724	1.10	2857458	101.8	30 - 120	
72	Ge	1	1738028	0.58	1703453	102.0	30 - 120	
115	In	1	4964112	0.11	4777220	103.9	30 - 120	
165	Ho	1	9866816	1.06	9746194	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\070SMPL.D\070SMPL.D#
Date Acquired: Nov 3 2011 01:13 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-13-d
Misc Info:
Vial Number: 2501
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.51	0.51	ppb	14.75	3600	
51	V	72	1	27.40	27.40	ppb	0.52	3600	
52	Cr	72	1	18.90	18.90	ppb	0.61	3600	
55	Mn	72	1	181.30	181.30	ppb	2.05	18000	
59	Co	72	1	7.86	7.86	ppb	2.17	3600	
60	Ni	72	1	25.03	25.03	ppb	0.55	3600	
63	Cu	72	1	11.93	11.93	ppb	0.59	3600	
66	Zn	72	1	35.40	35.40	ppb	1.21	3600	
75	As	72	1	5.32	5.32	ppb	1.17	3600	
78	Se	72	1	1.22	1.22	ppb	12.99	3600	
95	Mo	72	1	0.79	0.79	ppb	7.32	3600	
107	Ag	115	1	0.04	0.04	ppb	20.48	3600	
111	Cd	115	1	0.12	0.12	ppb	15.29	3600	
118	Sn	115	1	0.12	0.12	ppb	8.25	3600	
121	Sb	115	1	0.02	0.02	ppb	8.62	3600	
137	Ba	115	1	12.00	12.00	ppb	1.74	3600	
205	Tl	165	1	0.11	0.11	ppb	4.65	3600	
208	Pb	165	1	8.89	8.89	ppb	0.64	3600	
232	Th	165	1	4.97	4.97	ppb	0.99	1000	
238	U	165	1	1.60	1.60	ppb	1.48	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	530540	0.17	536694	98.9	30 - 120	
45	Sc	1	2967141	0.29	2857458	103.8	30 - 120	
72	Ge	1	1737813	1.44	1703453	102.0	30 - 120	
115	In	1	4863902	2.11	4777220	101.8	30 - 120	
165	Ho	1	9974236	0.37	9746194	102.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\071SMPL.D\071SMPL.D#
Date Acquired:	Nov 3 2011 01:16 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-14-b
Misc Info:	
Vial Number:	2502
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	28.70	3600	
51	V	72	1	18.63	18.63	ppb	0.67	3600	
52	Cr	72	1	8.71	8.71	ppb	0.64	3600	
55	Mn	72	1	101.30	101.30	ppb	1.57	18000	
59	Co	72	1	1.52	1.52	ppb	2.45	3600	
60	Ni	72	1	3.70	3.70	ppb	2.33	3600	
63	Cu	72	1	3.60	3.60	ppb	0.96	3600	
66	Zn	72	1	11.60	11.60	ppb	0.34	3600	
75	As	72	1	3.59	3.59	ppb	2.33	3600	
78	Se	72	1	1.46	1.46	ppb	7.91	3600	
95	Mo	72	1	0.53	0.53	ppb	5.49	3600	
107	Ag	115	1	0.04	0.04	ppb	10.93	3600	
111	Cd	115	1	0.10	0.10	ppb	27.68	3600	
118	Sn	115	1	0.11	0.11	ppb	10.86	3600	
121	Sb	115	1	0.02	0.02	ppb	11.63	3600	
137	Ba	115	1	10.32	10.32	ppb	1.61	3600	
205	Tl	165	1	0.12	0.12	ppb	0.98	3600	
208	Pb	165	1	7.60	7.60	ppb	1.72	3600	
232	Th	165	1	6.98	6.98	ppb	2.44	1000	
238	U	165	1	1.02	1.02	ppb	1.93	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539124	1.78	536694	100.5	30 - 120	
45	Sc	1	2929294	0.93	2857458	102.5	30 - 120	
72	Ge	1	1733517	0.82	1703453	101.8	30 - 120	
115	In	1	4925705	0.43	4777220	103.1	30 - 120	
165	Ho	1	10000026	1.23	9746194	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\072SMPL.D\072SMPL.D#
Date Acquired:	Nov 3 2011 01:19 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-15-b
Misc Info:	
Vial Number:	2503
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.26	0.26	ppb	31.12	3600	
51	V	72	1	12.20	12.20	ppb	2.09	3600	
52	Cr	72	1	6.36	6.36	ppb	3.08	3600	
55	Mn	72	1	123.50	123.50	ppb	2.42	18000	
59	Co	72	1	2.55	2.55	ppb	1.44	3600	
60	Ni	72	1	4.35	4.35	ppb	0.30	3600	
63	Cu	72	1	4.62	4.62	ppb	0.32	3600	
66	Zn	72	1	14.09	14.09	ppb	1.31	3600	
75	As	72	1	3.62	3.62	ppb	1.32	3600	
78	Se	72	1	0.92	0.92	ppb	19.97	3600	
95	Mo	72	1	0.29	0.29	ppb	3.80	3600	
107	Ag	115	1	0.02	0.02	ppb	7.58	3600	
111	Cd	115	1	0.07	0.07	ppb	11.83	3600	
118	Sn	115	1	0.13	0.13	ppb	2.89	3600	
121	Sb	115	1	0.02	0.02	ppb	14.39	3600	
137	Ba	115	1	8.83	8.83	ppb	0.65	3600	
205	Tl	165	1	0.09	0.09	ppb	3.31	3600	
208	Pb	165	1	9.24	9.24	ppb	0.56	3600	
232	Th	165	1	4.85	4.85	ppb	0.57	1000	
238	U	165	1	0.95	0.95	ppb	0.72	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539752	0.55	536694	100.6	30 - 120	
45	Sc	1	2954254	0.86	2857458	103.4	30 - 120	
72	Ge	1	1754459	0.45	1703453	103.0	30 - 120	
115	In	1	4962642	1.10	4777220	103.9	30 - 120	
165	Ho	1	9950041	1.23	9746194	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\073SMPL.D\073SMPL.D#
Date Acquired:	Nov 3 2011 01:22 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-16-d
Misc Info:	
Vial Number:	2504
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.28	0.28	ppb	37.34	3600	
51	V	72	1	9.63	9.63	ppb	2.10	3600	
52	Cr	72	1	6.40	6.40	ppb	4.27	3600	
55	Mn	72	1	172.40	172.40	ppb	2.58	18000	
59	Co	72	1	2.92	2.92	ppb	0.99	3600	
60	Ni	72	1	5.02	5.02	ppb	1.32	3600	
63	Cu	72	1	3.99	3.99	ppb	0.92	3600	
66	Zn	72	1	12.80	12.80	ppb	0.61	3600	
75	As	72	1	2.89	2.89	ppb	1.34	3600	
78	Se	72	1	0.81	0.81	ppb	17.33	3600	
95	Mo	72	1	0.28	0.28	ppb	2.96	3600	
107	Ag	115	1	0.02	0.02	ppb	15.12	3600	
111	Cd	115	1	0.05	0.05	ppb	8.77	3600	
118	Sn	115	1	0.09	0.09	ppb	4.21	3600	
121	Sb	115	1	0.02	0.02	ppb	15.44	3600	
137	Ba	115	1	7.72	7.72	ppb	0.45	3600	
205	Tl	165	1	0.08	0.08	ppb	1.90	3600	
208	Pb	165	1	4.82	4.82	ppb	1.03	3600	
232	Th	165	1	4.90	4.90	ppb	1.23	1000	
238	U	165	1	0.91	0.91	ppb	0.44	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	534315	0.55	536694	99.6	30 - 120	
45	Sc	1	2954154	1.09	2857458	103.4	30 - 120	
72	Ge	1	1739422	0.60	1703453	102.1	30 - 120	
115	In	1	4930270	1.83	4777220	103.2	30 - 120	
165	Ho	1	9875400	0.88	9746194	101.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\074SMPL.D\074SMPL.D#
Date Acquired: Nov 3 2011 01:25 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-17-b
Misc Info:
Vial Number: 2505
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.44	0.44	ppb	9.07	3600	
51	V	72	1	17.36	17.36	ppb	0.89	3600	
52	Cr	72	1	9.55	9.55	ppb	0.21	3600	
55	Mn	72	1	196.70	196.70	ppb	0.75	18000	
59	Co	72	1	4.51	4.51	ppb	0.47	3600	
60	Ni	72	1	7.72	7.72	ppb	1.58	3600	
63	Cu	72	1	6.43	6.43	ppb	0.98	3600	
66	Zn	72	1	22.19	22.19	ppb	0.89	3600	
75	As	72	1	5.06	5.06	ppb	1.22	3600	
78	Se	72	1	1.17	1.17	ppb	17.54	3600	
95	Mo	72	1	0.47	0.47	ppb	2.86	3600	
107	Ag	115	1	0.03	0.03	ppb	15.30	3600	
111	Cd	115	1	0.10	0.10	ppb	7.82	3600	
118	Sn	115	1	0.16	0.16	ppb	8.70	3600	
121	Sb	115	1	0.03	0.03	ppb	10.23	3600	
137	Ba	115	1	10.54	10.54	ppb	0.06	3600	
205	Tl	165	1	0.13	0.13	ppb	1.82	3600	
208	Pb	165	1	9.64	9.64	ppb	2.33	3600	
232	Th	165	1	5.62	5.62	ppb	3.65	1000	
238	U	165	1	1.08	1.08	ppb	1.49	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	543844	0.95	536694	101.3	30 - 120	
45	Sc	1	2991662	0.68	2857458	104.7	30 - 120	
72	Ge	1	1751030	1.07	1703453	102.8	30 - 120	
115	In	1	4917082	1.05	4777220	102.9	30 - 120	
165	Ho	1	10021970	1.29	9746194	102.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\075SMPL.D\075SMPL.D#
Date Acquired:	Nov 3 2011 01:28 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-18-f
Misc Info:	
Vial Number:	2506
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	7.64	3600	
51	V	72	1	12.52	12.52	ppb	1.56	3600	
52	Cr	72	1	6.89	6.89	ppb	1.53	3600	
55	Mn	72	1	263.80	263.80	ppb	0.65	18000	
59	Co	72	1	3.51	3.51	ppb	0.77	3600	
60	Ni	72	1	4.70	4.70	ppb	1.42	3600	
63	Cu	72	1	4.95	4.95	ppb	1.52	3600	
66	Zn	72	1	16.11	16.11	ppb	0.16	3600	
75	As	72	1	3.97	3.97	ppb	0.66	3600	
78	Se	72	1	1.03	1.03	ppb	6.85	3600	
95	Mo	72	1	0.62	0.62	ppb	5.31	3600	
107	Ag	115	1	0.02	0.02	ppb	15.20	3600	
111	Cd	115	1	0.07	0.07	ppb	12.48	3600	
118	Sn	115	1	0.13	0.13	ppb	10.51	3600	
121	Sb	115	1	0.03	0.03	ppb	23.35	3600	
137	Ba	115	1	11.90	11.90	ppb	0.80	3600	
205	Tl	165	1	0.09	0.09	ppb	3.16	3600	
208	Pb	165	1	9.31	9.31	ppb	0.74	3600	
232	Th	165	1	4.46	4.46	ppb	2.15	1000	
238	U	165	1	0.88	0.88	ppb	2.92	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	544750	1.02	536694	101.5	30 - 120	
45	Sc	1	2969397	1.16	2857458	103.9	30 - 120	
72	Ge	1	1746349	0.74	1703453	102.5	30 - 120	
115	In	1	4967517	1.39	4777220	104.0	30 - 120	
165	Ho	1	9892183	0.30	9746194	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\076SMPL.D\076SMPL.D#
Date Acquired:	Nov 3 2011 01:31 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-19-d
Misc Info:	
Vial Number:	2507
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.29	0.29	ppb	9.80	3600	
51	V	72	1	14.58	14.58	ppb	1.07	3600	
52	Cr	72	1	10.13	10.13	ppb	1.48	3600	
55	Mn	72	1	200.90	200.90	ppb	0.72	18000	
59	Co	72	1	3.42	3.42	ppb	0.98	3600	
60	Ni	72	1	6.43	6.43	ppb	0.51	3600	
63	Cu	72	1	6.23	6.23	ppb	1.76	3600	
66	Zn	72	1	18.70	18.70	ppb	1.26	3600	
75	As	72	1	4.37	4.37	ppb	0.37	3600	
78	Se	72	1	1.11	1.11	ppb	22.57	3600	
95	Mo	72	1	0.39	0.39	ppb	3.55	3600	
107	Ag	115	1	0.04	0.04	ppb	7.25	3600	
111	Cd	115	1	0.08	0.08	ppb	16.19	3600	
118	Sn	115	1	0.17	0.17	ppb	11.97	3600	
121	Sb	115	1	0.03	0.03	ppb	12.95	3600	
137	Ba	115	1	16.88	16.88	ppb	0.67	3600	
205	Tl	165	1	0.12	0.12	ppb	4.76	3600	
208	Pb	165	1	9.50	9.50	ppb	1.12	3600	
232	Th	165	1	7.07	7.07	ppb	1.69	1000	
238	U	165	1	1.25	1.25	ppb	0.33	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	538504	0.57	536694	100.3	30 - 120	
45	Sc	1	2921305	1.96	2857458	102.2	30 - 120	
72	Ge	1	1745991	0.35	1703453	102.5	30 - 120	
115	In	1	4942975	0.72	4777220	103.5	30 - 120	
165	Ho	1	9824977	0.54	9746194	100.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\077SMPL.D\077SMPL.D#
Date Acquired: Nov 3 2011 01:34 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-20-d
Misc Info:
Vial Number: 2508
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.20	0.20	ppb	29.03	3600	
51	V	72	1	16.15	16.15	ppb	1.47	3600	
52	Cr	72	1	10.24	10.24	ppb	0.81	3600	
55	Mn	72	1	74.08	74.08	ppb	2.61	18000	
59	Co	72	1	1.59	1.59	ppb	2.12	3600	
60	Ni	72	1	5.08	5.08	ppb	1.82	3600	
63	Cu	72	1	2.05	2.05	ppb	1.67	3600	
66	Zn	72	1	11.79	11.79	ppb	1.43	3600	
75	As	72	1	3.06	3.06	ppb	1.56	3600	
78	Se	72	1	2.01	2.01	ppb	18.84	3600	
95	Mo	72	1	0.37	0.37	ppb	8.28	3600	
107	Ag	115	1	0.03	0.03	ppb	11.94	3600	
111	Cd	115	1	0.06	0.06	ppb	28.39	3600	
118	Sn	115	1	0.15	0.15	ppb	9.08	3600	
121	Sb	115	1	0.01	0.01	ppb	28.41	3600	
137	Ba	115	1	10.32	10.32	ppb	0.28	3600	
205	Tl	165	1	0.08	0.08	ppb	2.63	3600	
208	Pb	165	1	6.66	6.66	ppb	0.92	3600	
232	Th	165	1	11.42	11.42	ppb	1.16	1000	
238	U	165	1	1.65	1.65	ppb	0.48	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	535301	0.40	536694	99.7	30 - 120	
45	Sc	1	2951869	1.08	2857458	103.3	30 - 120	
72	Ge	1	1723935	0.86	1703453	101.2	30 - 120	
115	In	1	4964168	1.93	4777220	103.9	30 - 120	
165	Ho	1	9916247	0.67	9746194	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\078_CCV.D\078_CCV.D#
Date Acquired:	Nov 3 2011 01:37 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.03	ppb	3.53	50	104.1	90 - 110	
51	V	72	1	51.22	ppb	2.28	50	102.4	90 - 110	
52	Cr	72	1	51.81	ppb	1.07	50	103.6	90 - 110	
55	Mn	72	1	51.39	ppb	1.63	50	102.8	90 - 110	
59	Co	72	1	52.37	ppb	1.22	50	104.7	90 - 110	
60	Ni	72	1	52.00	ppb	1.19	50	104.0	90 - 110	
63	Cu	72	1	52.40	ppb	2.06	50	104.8	90 - 110	
66	Zn	72	1	50.48	ppb	0.77	50	101.0	90 - 110	
75	As	72	1	51.15	ppb	0.76	50	102.3	90 - 110	
78	Se	72	1	49.82	ppb	3.02	50	99.6	90 - 110	
95	Mo	72	1	51.08	ppb	1.08	50	102.2	90 - 110	
107	Ag	115	1	50.84	ppb	1.44	50	101.7	90 - 110	
111	Cd	115	1	49.50	ppb	1.06	50	99.0	90 - 110	
118	Sn	115	1	48.14	ppb	0.77	50	96.3	90 - 110	
121	Sb	115	1	47.49	ppb	0.92	50	95.0	90 - 110	
137	Ba	115	1	50.55	ppb	0.90	50	101.1	90 - 110	
205	Tl	165	1	50.29	ppb	1.73	50	100.6	90 - 110	
208	Pb	165	1	48.96	ppb	1.85	50	97.9	90 - 110	
232	Th	165	1	49.37	ppb	2.45	50	98.7	90 - 110	
238	U	165	1	48.95	ppb	1.62	50	97.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532235	1.54	536694	99.2	30 - 120	
45	Sc	1	2900334	0.74	2857458	101.5	30 - 120	
72	Ge	1	1722520	0.57	1703453	101.1	30 - 120	
115	In	1	4966140	0.44	4777220	104.0	30 - 120	
165	Ho	1	9895887	1.31	9746194	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\079_CCB.D\079_CCB.D#
Date Acquired: Nov 3 2011 01:39 am
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	173.65	1.00	
51	V	72	1	0.000	ppb	2277.00	1.00	
52	Cr	72	1	0.015	ppb	128.49	1.00	
55	Mn	72	1	0.071	ppb	1.66	1.00	
59	Co	72	1	0.010	ppb	15.28	1.00	
60	Ni	72	1	0.044	ppb	4.82	1.00	
63	Cu	72	1	0.045	ppb	15.84	1.00	
66	Zn	72	1	0.092	ppb	9.77	1.00	
75	As	72	1	0.016	ppb	12.20	1.00	
78	Se	72	1	-0.092	ppb	146.12	1.00	
95	Mo	72	1	0.024	ppb	26.02	1.00	
107	Ag	115	1	0.009	ppb	26.12	1.00	
111	Cd	115	1	0.006	ppb	86.24	1.00	
118	Sn	115	1	0.056	ppb	15.47	1.00	
121	Sb	115	1	0.014	ppb	10.85	1.00	
137	Ba	115	1	0.019	ppb	3.82	1.00	
205	Tl	165	1	0.022	ppb	13.70	1.00	
208	Pb	165	1	0.015	ppb	3.09	1.00	
232	Th	165	1	0.040	ppb	5.04	1.00	
238	U	165	1	0.011	ppb	5.35	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	533493	1.89	536694	99.4	30 - 120	
45	Sc	1	2900416	2.28	2857458	101.5	30 - 120	
72	Ge	1	1737264	0.42	1703453	102.0	30 - 120	
115	In	1	4940357	1.23	4777220	103.4	30 - 120	
165	Ho	1	9864242	0.40	9746194	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\080WASH.D\080WASH.D#
Date Acquired: Nov 3 2011 01:42 am
Operator: LRD
Sample Name: LLICV-1106830
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.995 ppb	22.77	1.30	
51	V	72	1	4.968 ppb	1.16	6.50	
52	Cr	72	1	2.209 ppb	0.23	2.60	
55	Mn	72	1	1.222 ppb	2.52	1.30	
59	Co	72	1	1.084 ppb	1.75	1.30	
60	Ni	72	1	2.343 ppb	1.26	2.60	
63	Cu	72	1	2.211 ppb	1.63	2.60	
66	Zn	72	1	10.400 ppb	1.09	13.00	
75	As	72	1	5.275 ppb	2.20	6.50	
78	Se	72	1	5.419 ppb	8.02	6.50	
95	Mo	72	1	2.182 ppb	3.61	2.60	
107	Ag	115	1	4.985 ppb	0.88	6.50	
111	Cd	115	1	1.014 ppb	5.73	1.30	
118	Sn	115	1	9.865 ppb	0.22	13.00	
121	Sb	115	1	1.953 ppb	0.95	2.60	
137	Ba	115	1	1.106 ppb	3.98	1.30	
205	Tl	165	1	1.071 ppb	1.31	1.30	
208	Pb	165	1	1.054 ppb	1.74	1.30	
232	Th	165	1	2.016 ppb	3.29	2.60	
238	U	165	1	1.013 ppb	2.63	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	536771	0.66	536694	100.0	30 - 120	
45	Sc	1	2921004	1.81	2857458	102.2	30 - 120	
72	Ge	1	1730449	1.50	1703453	101.6	30 - 120	
115	In	1	4998813	0.80	4777220	104.6	30 - 120	
165	Ho	1	9927535	1.02	9746194	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\081_BLK.D\081_BLK.D#
Date Acquired:	Nov 3 2011 01:45 am
Operator:	LRD
Sample Name:	mb 280-91961/1-a
Misc Info:	BLANK 91961 Soil 6020A
Vial Number:	2509
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	344.30	2.00	
51	V	72	1	-0.012	ppb	146.23	2.00	
52	Cr	72	1	0.214	ppb	5.04	2.00	
55	Mn	72	1	0.165	ppb	4.42	2.00	
59	Co	72	1	0.006	ppb	23.94	2.00	
60	Ni	72	1	0.040	ppb	15.59	2.00	
63	Cu	72	1	0.138	ppb	1.90	2.00	
66	Zn	72	1	0.293	ppb	7.99	2.00	
75	As	72	1	0.010	ppb	79.29	2.00	
78	Se	72	1	0.000	ppb	63856.00	2.00	
95	Mo	72	1	0.030	ppb	22.57	2.00	
107	Ag	115	1	0.006	ppb	35.66	2.00	
111	Cd	115	1	0.004	ppb	9.83	2.00	
118	Sn	115	1	0.068	ppb	1.46	2.00	
121	Sb	115	1	0.009	ppb	3.75	2.00	
137	Ba	115	1	0.097	ppb	11.47	2.00	
205	Tl	165	1	0.010	ppb	12.71	2.00	
208	Pb	165	1	0.024	ppb	5.37	2.00	
232	Th	165	1	0.019	ppb	6.33	2.00	
238	U	165	1	0.008	ppb	3.53	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	537964	1.10	536694	100.2	30 - 120	
45	Sc	1	2955245	1.26	2857458	103.4	30 - 120	
72	Ge	1	1746509	1.84	1703453	102.5	30 - 120	
115	In	1	4946329	0.65	4777220	103.5	30 - 120	
165	Ho	1	9873647	0.52	9746194	101.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\082_LCS.D\082_LCS.D#
Date Acquired:	Nov 3 2011 01:48 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-91961/2-a
Misc Info:	LCS
Vial Number:	2510
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.97	3.11	40	102.4	80 - 120	
51	V	72	1	40.51	2.05	40	101.3	80 - 120	
52	Cr	72	1	41.17	1.10	40	102.9	80 - 120	
55	Mn	72	1	40.31	2.59	40	100.8	80 - 120	
59	Co	72	1	42.42	0.41	40	106.1	80 - 120	
60	Ni	72	1	41.43	1.48	40	103.6	80 - 120	
63	Cu	72	1	40.13	1.22	40	100.3	80 - 120	
66	Zn	72	1	38.35	0.88	40	95.9	80 - 120	
75	As	72	1	39.64	1.03	40	99.1	80 - 120	
78	Se	72	1	39.12	2.47	40	97.8	80 - 120	
95	Mo	72	1	40.36	1.34	40	100.9	80 - 120	
107	Ag	115	1	40.78	1.97	40	102.0	80 - 120	
111	Cd	115	1	38.77	2.19	40	96.9	80 - 120	
118	Sn	115	1	38.45	0.90	40	96.1	80 - 120	
121	Sb	115	1	37.09	0.59	40	92.7	80 - 120	
137	Ba	115	1	40.40	1.11	40	101.0	80 - 120	
205	Tl	165	1	40.32	1.33	40	100.8	80 - 120	
208	Pb	165	1	39.37	0.51	40	98.4	80 - 120	
232	Th	165	1	38.99	2.35	40	97.5	80 - 120	
238	U	165	1	39.49	1.87	40	98.7	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	536675	1.32	536694	100.0	30 - 120	
45	Sc	1	2930840	1.84	2857458	102.6	30 - 120	
72	Ge	1	1741580	1.43	1703453	102.2	30 - 120	
115	In	1	4991592	1.01	4777220	104.5	30 - 120	
165	Ho	1	9957704	1.40	9746194	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\083AREF.D\083AREF.D#
Date Acquired:	Nov 3 2011 01:51 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-81-b
Misc Info:	
Vial Number:	2511
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.32	0.32	ppb	18.48	3600	
51	V	72	1	15.11	15.11	ppb	1.34	3600	
52	Cr	72	1	7.82	7.82	ppb	2.70	3600	
55	Mn	72	1	102.10	102.10	ppb	2.67	18000	
59	Co	72	1	0.86	0.86	ppb	2.07	3600	
60	Ni	72	1	3.41	3.41	ppb	0.13	3600	
63	Cu	72	1	2.55	2.55	ppb	0.93	3600	
66	Zn	72	1	16.64	16.64	ppb	1.01	3600	
75	As	72	1	3.87	3.87	ppb	1.05	3600	
78	Se	72	1	1.78	1.78	ppb	9.12	3600	
95	Mo	72	1	0.41	0.41	ppb	5.69	3600	
107	Ag	115	1	0.04	0.04	ppb	2.53	3600	
111	Cd	115	1	0.11	0.11	ppb	5.15	3600	
118	Sn	115	1	0.14	0.14	ppb	1.20	3600	
121	Sb	115	1	0.04	0.04	ppb	1.65	3600	
137	Ba	115	1	14.03	14.03	ppb	1.52	3600	
205	Tl	165	1	0.12	0.12	ppb	8.46	3600	
208	Pb	165	1	15.86	15.86	ppb	1.69	3600	
232	Th	165	1	11.88	11.88	ppb	1.77	1000	
238	U	165	1	1.76	1.76	ppb	0.57	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	538217	1.40	536694	100.3	30 - 120	
45	Sc	1	2935314	1.27	2857458	102.7	30 - 120	
72	Ge	1	1731850	0.73	1703453	101.7	30 - 120	
115	In	1	4937082	1.30	4777220	103.3	30 - 120	
165	Ho	1	9896495	1.16	9746194	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\084SDIL.D\084SDIL.D#
Date Acquired: Nov 3 2011 01:54 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-81-b SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2512
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110211.B\083AREF.D\083AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.06	ppb	34.60	0.06	86.9	90 - 110	
51	V	72	1	3.03	ppb	0.27	3.02	100.2	90 - 110	
52	Cr	72	1	1.59	ppb	1.90	1.56	101.5	90 - 110	
55	Mn	72	1	19.93	ppb	1.42	20.42	97.6	90 - 110	
59	Co	72	1	0.18	ppb	0.11	0.17	102.8	90 - 110	
60	Ni	72	1	0.69	ppb	7.40	0.68	101.7	90 - 110	
63	Cu	72	1	0.50	ppb	3.45	0.51	97.8	90 - 110	
66	Zn	72	1	3.39	ppb	1.42	3.33	101.7	90 - 110	
75	As	72	1	0.79	ppb	5.02	0.77	101.5	90 - 110	
78	Se	72	1	0.81	ppb	28.00	0.36	228.5	90 - 110	
95	Mo	72	1	0.08	ppb	9.37	0.08	102.0	90 - 110	
107	Ag	115	1	0.01	ppb	17.54	0.01	119.2	90 - 110	
111	Cd	115	1	0.02	ppb	28.34	0.02	101.9	90 - 110	
118	Sn	115	1	0.06	ppb	3.91	0.03	211.5	90 - 110	
121	Sb	115	1	0.01	ppb	12.87	0.01	143.1	90 - 110	
137	Ba	115	1	2.81	ppb	1.20	2.81	100.2	90 - 110	
205	Tl	165	1	0.02	ppb	3.70	0.02	100.5	90 - 110	
208	Pb	165	1	3.24	ppb	0.95	3.17	102.1	90 - 110	
232	Th	165	1	2.38	ppb	1.69	2.38	100.0	90 - 110	
238	U	165	1	0.36	ppb	0.27	0.35	101.9	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	542400	0.93	536694	101.1	30 - 120	
45	Sc	1	2957976	0.50	2857458	103.5	30 - 120	
72	Ge	1	1761512	0.31	1703453	103.4	30 - 120	
115	In	1	5026852	1.09	4777220	105.2	30 - 120	
165	Ho	1	9968725	0.91	9746194	102.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\085PDS.D\085PDS.D#
Date Acquired:	Nov 3 2011 01:57 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-81-b PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	198.50	0.32	ppb	1.44	200	99.1	75 - 125	
51 V	72	1	204.20	15.11	ppb	2.17	200	94.9	75 - 125	
52 Cr	72	1	198.70	7.82	ppb	0.81	200	95.6	75 - 125	
55 Mn	72	1	288.20	102.10	ppb	1.81	200	95.4	75 - 125	
59 Co	72	1	200.40	0.86	ppb	2.55	200	99.8	75 - 125	
60 Ni	72	1	212.80	3.41	ppb	2.55	200	104.6	75 - 125	
63 Cu	72	1	197.60	2.55	ppb	1.97	200	97.6	75 - 125	
66 Zn	72	1	203.20	16.64	ppb	1.04	200	93.8	75 - 125	
75 As	72	1	199.20	3.87	ppb	0.93	200	97.7	75 - 125	
78 Se	72	1	191.30	1.78	ppb	1.52	200	94.8	75 - 125	
95 Mo	72	1	203.70	0.41	ppb	1.63	200	101.6	75 - 125	
107 Ag	115	1	49.89	0.04	ppb	1.84	50	99.7	75 - 125	
111 Cd	115	1	193.60	0.11	ppb	1.02	200	96.7	75 - 125	
118 Sn	115	1	195.80	0.14	ppb	1.67	200	97.8	75 - 125	
121 Sb	115	1	190.10	0.04	ppb	0.47	200	95.0	75 - 125	
137 Ba	115	1	222.20	14.03	ppb	0.86	200	103.8	75 - 125	
205 Tl	165	1	191.00	0.12	ppb	0.77	200	95.4	75 - 125	
208 Pb	165	1	203.60	15.86	ppb	0.42	200	94.3	75 - 125	
232 Th	165	1	11.47	11.88	ppb	0.41	200	5.4	75 - 125	
238 U	165	1	186.40	1.76	ppb	0.15	200	92.4	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	541350	1.53	536694	100.9	30 - 120	
45 Sc	1	2901704	0.91	2857458	101.5	30 - 120	
72 Ge	1	1726553	1.44	1703453	101.4	30 - 120	
115 In	1	4876827	0.79	4777220	102.1	30 - 120	
165 Ho	1	9911674	1.31	9746194	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\086_MS.D\086_MS.D#
Date Acquired:	Nov 3 2011 02:00 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-81-c ms
Misc Info:	MATRIX SPIKE
Vial Number:	3102
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	40.85	0.32	ppb	0.68	40	101.3	50 - 150	
51 V	72	1	56.93	15.11	ppb	1.44	40	103.3	50 - 150	
52 Cr	72	1	49.75	7.82	ppb	1.62	40	104.0	50 - 150	
55 Mn	72	1	138.30	102.10	ppb	0.84	40	97.3	50 - 150	
59 Co	72	1	43.81	0.86	ppb	0.74	40	107.2	50 - 150	
60 Ni	72	1	46.10	3.41	ppb	1.18	40	106.2	50 - 150	
63 Cu	72	1	43.09	2.55	ppb	0.17	40	101.3	50 - 150	
66 Zn	72	1	58.52	16.64	ppb	0.32	40	103.3	50 - 150	
75 As	72	1	42.39	3.87	ppb	0.62	40	96.6	50 - 150	
78 Se	72	1	39.25	1.78	ppb	5.78	40	93.9	50 - 150	
95 Mo	72	1	37.41	0.41	ppb	1.67	40	92.6	50 - 150	
107 Ag	115	1	39.91	0.04	ppb	0.67	40	99.7	50 - 150	
111 Cd	115	1	39.66	0.11	ppb	1.57	40	98.9	50 - 150	
118 Sn	115	1	5.63	0.14	ppb	2.65	40	14.0	50 - 150	
121 Sb	115	1	6.83	0.04	ppb	1.31	40	17.1	50 - 150	
137 Ba	115	1	54.41	14.03	ppb	1.61	40	100.7	50 - 150	
205 Tl	165	1	40.30	0.12	ppb	0.81	40	100.4	50 - 150	
208 Pb	165	1	51.94	15.86	ppb	0.79	40	93.0	50 - 150	
232 Th	165	1	46.31	11.88	ppb	1.63	40	89.3	50 - 150	
238 U	165	1	40.81	1.76	ppb	0.46	40	97.7	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	544132	1.39	536694	101.4	30 - 120	
45 Sc	1	2926764	0.60	2857458	102.4	30 - 120	
72 Ge	1	1727467	0.83	1703453	101.4	30 - 120	
115 In	1	4927037	1.25	4777220	103.1	30 - 120	
165 Ho	1	9991375	0.50	9746194	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\087_MSD.D\087_MSD.D#
Date Acquired:	Nov 3 2011 02:03 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-81-d msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	3103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110211.B\086_MS.D\086_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	41.11	ppb	1.13	40.85	0.63	20	
51	V	72	1	57.37	ppb	2.33	56.93	0.77	20	
52	Cr	72	1	50.69	ppb	5.95	49.75	1.87	20	
55	Mn	72	1	146.10	ppb	1.13	138.30	5.49	20	
59	Co	72	1	42.93	ppb	1.67	43.81	2.03	20	
60	Ni	72	1	44.45	ppb	1.06	46.10	3.64	20	
63	Cu	72	1	41.75	ppb	1.07	43.09	3.16	20	
66	Zn	72	1	54.71	ppb	1.02	58.52	6.73	20	
75	As	72	1	41.91	ppb	1.21	42.39	1.14	20	
78	Se	72	1	39.65	ppb	1.54	39.25	1.01	20	
95	Mo	72	1	37.03	ppb	0.94	37.41	1.02	20	
107	Ag	115	1	39.92	ppb	1.89	39.91	0.03	20	
111	Cd	115	1	39.94	ppb	1.10	39.66	0.70	20	
118	Sn	115	1	4.29	ppb	6.41	5.63	26.87	20	
121	Sb	115	1	6.04	ppb	1.99	6.83	12.40	20	
137	Ba	115	1	56.12	ppb	1.04	54.41	3.09	20	
205	Tl	165	1	40.95	ppb	0.45	40.30	1.60	20	
208	Pb	165	1	50.98	ppb	0.49	51.94	1.87	20	
232	Th	165	1	50.07	ppb	0.80	46.31	7.80	20	
238	U	165	1	41.31	ppb	0.76	40.81	1.22	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	545157	0.46	536694	101.6	30 - 120	
45	Sc	1	2945670	1.03	2857458	103.1	30 - 120	
72	Ge	1	1743598	0.64	1703453	102.4	30 - 120	
115	In	1	4914719	0.95	4777220	102.9	30 - 120	
165	Ho	1	9915577	0.47	9746194	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\088SMPL.D\088SMPL.D#
Date Acquired:	Nov 3 2011 02:05 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-82-b
Misc Info:	
Vial Number:	3104
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.41	0.41	ppb	26.40	3600	
51	V	72	1	18.55	18.55	ppb	0.97	3600	
52	Cr	72	1	9.77	9.77	ppb	1.53	3600	
55	Mn	72	1	139.30	139.30	ppb	0.27	18000	
59	Co	72	1	1.42	1.42	ppb	4.05	3600	
60	Ni	72	1	4.72	4.72	ppb	2.35	3600	
63	Cu	72	1	2.93	2.93	ppb	2.63	3600	
66	Zn	72	1	23.01	23.01	ppb	1.75	3600	
75	As	72	1	4.41	4.41	ppb	1.18	3600	
78	Se	72	1	1.80	1.80	ppb	14.02	3600	
95	Mo	72	1	0.38	0.38	ppb	2.55	3600	
107	Ag	115	1	0.05	0.05	ppb	8.39	3600	
111	Cd	115	1	0.14	0.14	ppb	5.55	3600	
118	Sn	115	1	0.15	0.15	ppb	8.53	3600	
121	Sb	115	1	0.03	0.03	ppb	10.46	3600	
137	Ba	115	1	23.78	23.78	ppb	1.35	3600	
205	Tl	165	1	0.12	0.12	ppb	3.79	3600	
208	Pb	165	1	14.99	14.99	ppb	0.61	3600	
232	Th	165	1	12.04	12.04	ppb	0.76	1000	
238	U	165	1	1.68	1.68	ppb	0.87	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	542270	1.31	536694	101.0	30 - 120	
45	Sc	1	2968597	1.47	2857458	103.9	30 - 120	
72	Ge	1	1730122	0.40	1703453	101.6	30 - 120	
115	In	1	4935605	1.39	4777220	103.3	30 - 120	
165	Ho	1	9985752	1.02	9746194	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\089_CCV.D\089_CCV.D#
Date Acquired:	Nov 3 2011 02:08 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.51	ppb	1.39	50	101.0	90 - 110	
51	V	72	1	50.59	ppb	1.69	50	101.2	90 - 110	
52	Cr	72	1	50.81	ppb	1.07	50	101.6	90 - 110	
55	Mn	72	1	51.63	ppb	2.41	50	103.3	90 - 110	
59	Co	72	1	52.64	ppb	0.73	50	105.3	90 - 110	
60	Ni	72	1	51.59	ppb	2.00	50	103.2	90 - 110	
63	Cu	72	1	51.82	ppb	1.72	50	103.6	90 - 110	
66	Zn	72	1	50.06	ppb	1.75	50	100.1	90 - 110	
75	As	72	1	50.60	ppb	0.95	50	101.2	90 - 110	
78	Se	72	1	50.09	ppb	1.98	50	100.2	90 - 110	
95	Mo	72	1	50.55	ppb	1.30	50	101.1	90 - 110	
107	Ag	115	1	51.18	ppb	1.30	50	102.4	90 - 110	
111	Cd	115	1	49.85	ppb	0.97	50	99.7	90 - 110	
118	Sn	115	1	48.62	ppb	1.02	50	97.2	90 - 110	
121	Sb	115	1	47.95	ppb	0.81	50	95.9	90 - 110	
137	Ba	115	1	50.73	ppb	0.70	50	101.5	90 - 110	
205	Tl	165	1	50.26	ppb	0.56	50	100.5	90 - 110	
208	Pb	165	1	49.62	ppb	1.19	50	99.2	90 - 110	
232	Th	165	1	49.91	ppb	1.90	50	99.8	90 - 110	
238	U	165	1	49.27	ppb	1.02	50	98.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	544553	1.00	536694	101.5	30 - 120	
45	Sc	1	2910675	1.17	2857458	101.9	30 - 120	
72	Ge	1	1755779	1.39	1703453	103.1	30 - 120	
115	In	1	4951669	0.41	4777220	103.7	30 - 120	
165	Ho	1	9820817	0.70	9746194	100.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\090_CCB.D\090_CCB.D#
Date Acquired:	Nov 3 2011 02:11 am
Operator:	LRD
Sample Name:	CCB-1106802
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	174.34	1.00	
51	V	72	1	0.007	ppb	196.48	1.00	
52	Cr	72	1	0.024	ppb	57.98	1.00	
55	Mn	72	1	0.076	ppb	6.79	1.00	
59	Co	72	1	0.009	ppb	26.71	1.00	
60	Ni	72	1	0.045	ppb	9.47	1.00	
63	Cu	72	1	0.049	ppb	6.21	1.00	
66	Zn	72	1	0.149	ppb	5.45	1.00	
75	As	72	1	0.015	ppb	36.39	1.00	
78	Se	72	1	0.207	ppb	104.11	1.00	
95	Mo	72	1	0.017	ppb	27.24	1.00	
107	Ag	115	1	0.011	ppb	6.76	1.00	
111	Cd	115	1	0.010	ppb	40.46	1.00	
118	Sn	115	1	0.064	ppb	8.75	1.00	
121	Sb	115	1	0.015	ppb	21.15	1.00	
137	Ba	115	1	0.017	ppb	44.43	1.00	
205	Tl	165	1	0.026	ppb	12.09	1.00	
208	Pb	165	1	0.016	ppb	7.88	1.00	
232	Th	165	1	0.043	ppb	2.83	1.00	
238	U	165	1	0.014	ppb	5.13	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539217	2.10	536694	100.5	30 - 120	
45	Sc	1	2929579	0.92	2857458	102.5	30 - 120	
72	Ge	1	1756031	0.99	1703453	103.1	30 - 120	
115	In	1	4991552	1.74	4777220	104.5	30 - 120	
165	Ho	1	9955979	0.24	9746194	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\091WASH.D\091WASH.D#
Date Acquired: Nov 3 2011 02:14 am
Operator: LRD
Sample Name: LLICV-1106830
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.085	ppb	6.01	1.30	
51	V	72	1	4.905	ppb	1.64	6.50	
52	Cr	72	1	2.184	ppb	1.14	2.60	
55	Mn	72	1	1.221	ppb	0.71	1.30	
59	Co	72	1	1.089	ppb	1.98	1.30	
60	Ni	72	1	2.330	ppb	3.67	2.60	
63	Cu	72	1	2.226	ppb	0.76	2.60	
66	Zn	72	1	10.300	ppb	0.70	13.00	
75	As	72	1	5.201	ppb	0.33	6.50	
78	Se	72	1	5.321	ppb	5.53	6.50	
95	Mo	72	1	2.131	ppb	2.81	2.60	
107	Ag	115	1	5.008	ppb	1.26	6.50	
111	Cd	115	1	1.065	ppb	4.82	1.30	
118	Sn	115	1	9.856	ppb	0.91	13.00	
121	Sb	115	1	1.928	ppb	0.58	2.60	
137	Ba	115	1	1.103	ppb	2.11	1.30	
205	Tl	165	1	1.069	ppb	0.61	1.30	
208	Pb	165	1	1.063	ppb	1.61	1.30	
232	Th	165	1	2.008	ppb	1.93	2.60	
238	U	165	1	1.017	ppb	0.92	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	537136	0.73	536694	100.1	30 - 120	
45	Sc	1	2925206	1.25	2857458	102.4	30 - 120	
72	Ge	1	1755567	1.12	1703453	103.1	30 - 120	
115	In	1	4995661	0.85	4777220	104.6	30 - 120	
165	Ho	1	9948460	0.30	9746194	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\092SMPL.D\092SMPL.D#	
Date Acquired:	Nov 3 2011 02:18 am	
Acq. Method:	NormISIS.M	**QC Summary:**
Operator:	LRD	**Analytes: Pass**
Sample Name:	280-21683-a-83-b	**ISTD: Pass**
Misc Info:		
Vial Number:	3105	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 02 2011 10:03 pm	
Sample Type:	SA	
Dilution Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.39	0.39	ppb	10.10	3600	
51	V	72	1	15.49	15.49	ppb	2.42	3600	
52	Cr	72	1	8.32	8.32	ppb	2.63	3600	
55	Mn	72	1	113.50	113.50	ppb	1.35	18000	
59	Co	72	1	1.18	1.18	ppb	2.17	3600	
60	Ni	72	1	3.93	3.93	ppb	1.40	3600	
63	Cu	72	1	2.55	2.55	ppb	1.22	3600	
66	Zn	72	1	19.25	19.25	ppb	2.41	3600	
75	As	72	1	3.82	3.82	ppb	2.62	3600	
78	Se	72	1	1.56	1.56	ppb	14.19	3600	
95	Mo	72	1	0.30	0.30	ppb	9.01	3600	
107	Ag	115	1	0.03	0.03	ppb	7.31	3600	
111	Cd	115	1	0.12	0.12	ppb	16.84	3600	
118	Sn	115	1	0.13	0.13	ppb	7.99	3600	
121	Sb	115	1	0.03	0.03	ppb	7.07	3600	
137	Ba	115	1	16.92	16.92	ppb	1.49	3600	
205	Tl	165	1	0.09	0.09	ppb	2.59	3600	
208	Pb	165	1	12.48	12.48	ppb	1.57	3600	
232	Th	165	1	10.97	10.97	ppb	0.34	1000	
238	U	165	1	1.72	1.72	ppb	0.21	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	550314	0.57	536694	102.5	30 - 120	
45	Sc	1	2967048	1.89	2857458	103.8	30 - 120	
72	Ge	1	1751909	1.09	1703453	102.8	30 - 120	
115	In	1	4956707	0.34	4777220	103.8	30 - 120	
165	Ho	1	9987302	1.15	9746194	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\093SMPL.D\093SMPL.D#
Date Acquired:	Nov 3 2011 02:21 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-84-a
Misc Info:	
Vial Number:	3106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.42	0.42	ppb	13.08	3600	
51 V	72	1	16.26	16.26	ppb	0.18	3600	
52 Cr	72	1	12.13	12.13	ppb	0.54	3600	
55 Mn	72	1	89.21	89.21	ppb	1.16	18000	
59 Co	72	1	1.15	1.15	ppb	1.03	3600	
60 Ni	72	1	4.48	4.48	ppb	1.61	3600	
63 Cu	72	1	3.71	3.71	ppb	1.87	3600	
66 Zn	72	1	33.71	33.71	ppb	1.46	3600	
75 As	72	1	3.80	3.80	ppb	0.86	3600	
78 Se	72	1	1.78	1.78	ppb	8.40	3600	
95 Mo	72	1	0.50	0.50	ppb	8.06	3600	
107 Ag	115	1	0.04	0.04	ppb	8.78	3600	
111 Cd	115	1	0.17	0.17	ppb	2.04	3600	
118 Sn	115	1	0.15	0.15	ppb	35.01	3600	
121 Sb	115	1	0.70	0.70	ppb	6.99	3600	
137 Ba	115	1	21.33	21.33	ppb	1.09	3600	
205 Tl	165	1	0.09	0.09	ppb	2.37	3600	
208 Pb	165	1	146.00	146.00	ppb	1.17	3600	
232 Th	165	1	7.93	7.93	ppb	2.10	1000	
238 U	165	1	1.25	1.25	ppb	1.31	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	553259	1.81	536694	103.1	30 - 120	
45 Sc	1	2992274	0.88	2857458	104.7	30 - 120	
72 Ge	1	1741679	1.40	1703453	102.2	30 - 120	
115 In	1	4976940	0.31	4777220	104.2	30 - 120	
165 Ho	1	9959896	0.56	9746194	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\094SMPL.D\094SMPL.D#
Date Acquired: Nov 3 2011 02:24 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-85-b
Misc Info:
Vial Number: 3107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.38	0.38	ppb	6.88	3600	
51	V	72	1	20.83	20.83	ppb	1.22	3600	
52	Cr	72	1	12.93	12.93	ppb	0.74	3600	
55	Mn	72	1	69.46	69.46	ppb	1.16	18000	
59	Co	72	1	1.51	1.51	ppb	1.03	3600	
60	Ni	72	1	5.61	5.61	ppb	1.56	3600	
63	Cu	72	1	2.66	2.66	ppb	2.15	3600	
66	Zn	72	1	21.71	21.71	ppb	1.11	3600	
75	As	72	1	4.50	4.50	ppb	0.98	3600	
78	Se	72	1	1.33	1.33	ppb	22.05	3600	
95	Mo	72	1	0.47	0.47	ppb	6.07	3600	
107	Ag	115	1	0.03	0.03	ppb	5.58	3600	
111	Cd	115	1	0.12	0.12	ppb	7.91	3600	
118	Sn	115	1	0.14	0.14	ppb	11.87	3600	
121	Sb	115	1	0.14	0.14	ppb	14.17	3600	
137	Ba	115	1	18.55	18.55	ppb	1.35	3600	
205	Tl	165	1	0.11	0.11	ppb	1.75	3600	
208	Pb	165	1	34.43	34.43	ppb	0.49	3600	
232	Th	165	1	9.32	9.32	ppb	0.98	1000	
238	U	165	1	1.52	1.52	ppb	0.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	545252	0.99	536694	101.6	30 - 120	
45	Sc	1	2975995	1.06	2857458	104.1	30 - 120	
72	Ge	1	1748384	0.26	1703453	102.6	30 - 120	
115	In	1	4933314	1.60	4777220	103.3	30 - 120	
165	Ho	1	10005309	0.90	9746194	102.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\095SMPL.D\095SMPL.D#
Date Acquired:	Nov 3 2011 02:27 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-86-b
Misc Info:	
Vial Number:	3108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.32	0.32	ppb	6.59	3600	
51	V	72	1	10.21	10.21	ppb	0.80	3600	
52	Cr	72	1	5.30	5.30	ppb	0.92	3600	
55	Mn	72	1	228.20	228.20	ppb	1.36	18000	
59	Co	72	1	0.89	0.89	ppb	1.62	3600	
60	Ni	72	1	2.68	2.68	ppb	1.31	3600	
63	Cu	72	1	2.09	2.09	ppb	0.81	3600	
66	Zn	72	1	14.96	14.96	ppb	0.97	3600	
75	As	72	1	2.42	2.42	ppb	2.15	3600	
78	Se	72	1	1.14	1.14	ppb	28.80	3600	
95	Mo	72	1	0.26	0.26	ppb	7.48	3600	
107	Ag	115	1	0.03	0.03	ppb	10.84	3600	
111	Cd	115	1	0.19	0.19	ppb	7.97	3600	
118	Sn	115	1	0.08	0.08	ppb	17.55	3600	
121	Sb	115	1	0.02	0.02	ppb	3.68	3600	
137	Ba	115	1	18.53	18.53	ppb	0.62	3600	
205	Tl	165	1	0.06	0.06	ppb	0.53	3600	
208	Pb	165	1	12.35	12.35	ppb	0.81	3600	
232	Th	165	1	6.09	6.09	ppb	0.39	1000	
238	U	165	1	0.98	0.98	ppb	0.58	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	550138	0.17	536694	102.5	30 - 120	
45	Sc	1	2961529	1.25	2857458	103.6	30 - 120	
72	Ge	1	1735839	0.40	1703453	101.9	30 - 120	
115	In	1	4999624	0.53	4777220	104.7	30 - 120	
165	Ho	1	9948081	0.99	9746194	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\096SMPL.D\096SMPL.D#
Date Acquired: Nov 3 2011 02:30 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-87-b
Misc Info:
Vial Number: 3109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.32	0.32	ppb	25.05	3600	
51	V	72	1	10.84	10.84	ppb	1.44	3600	
52	Cr	72	1	6.01	6.01	ppb	1.33	3600	
55	Mn	72	1	90.72	90.72	ppb	2.38	18000	
59	Co	72	1	0.83	0.83	ppb	1.30	3600	
60	Ni	72	1	3.05	3.05	ppb	3.59	3600	
63	Cu	72	1	1.48	1.48	ppb	1.94	3600	
66	Zn	72	1	13.92	13.92	ppb	1.92	3600	
75	As	72	1	2.43	2.43	ppb	1.18	3600	
78	Se	72	1	1.01	1.01	ppb	28.39	3600	
95	Mo	72	1	0.24	0.24	ppb	5.07	3600	
107	Ag	115	1	0.02	0.02	ppb	15.40	3600	
111	Cd	115	1	0.13	0.13	ppb	2.63	3600	
118	Sn	115	1	0.10	0.10	ppb	4.44	3600	
121	Sb	115	1	0.01	0.01	ppb	10.82	3600	
137	Ba	115	1	16.55	16.55	ppb	1.30	3600	
205	Tl	165	1	0.06	0.06	ppb	3.13	3600	
208	Pb	165	1	5.58	5.58	ppb	0.62	3600	
232	Th	165	1	6.89	6.89	ppb	1.13	1000	
238	U	165	1	1.02	1.02	ppb	0.63	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	549295	0.32	536694	102.3	30 - 120	
45	Sc	1	2973676	2.23	2857458	104.1	30 - 120	
72	Ge	1	1756995	1.04	1703453	103.1	30 - 120	
115	In	1	5028398	1.23	4777220	105.3	30 - 120	
165	Ho	1	10011215	1.54	9746194	102.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\097SMPL.D\097SMPL.D#
Date Acquired: Nov 3 2011 02:33 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-88-b
Misc Info:
Vial Number: 3110
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.17	0.17	ppb	18.87	3600	
51	V	72	1	8.37	8.37	ppb	0.95	3600	
52	Cr	72	1	4.19	4.19	ppb	1.02	3600	
55	Mn	72	1	57.95	57.95	ppb	1.02	18000	
59	Co	72	1	0.48	0.48	ppb	0.20	3600	
60	Ni	72	1	1.63	1.63	ppb	1.05	3600	
63	Cu	72	1	2.17	2.17	ppb	1.79	3600	
66	Zn	72	1	10.10	10.10	ppb	0.40	3600	
75	As	72	1	2.06	2.06	ppb	1.98	3600	
78	Se	72	1	0.93	0.93	ppb	26.09	3600	
95	Mo	72	1	0.32	0.32	ppb	5.37	3600	
107	Ag	115	1	0.02	0.02	ppb	12.26	3600	
111	Cd	115	1	0.05	0.05	ppb	9.07	3600	
118	Sn	115	1	0.08	0.08	ppb	15.63	3600	
121	Sb	115	1	0.02	0.02	ppb	4.75	3600	
137	Ba	115	1	7.48	7.48	ppb	1.70	3600	
205	Tl	165	1	0.05	0.05	ppb	2.14	3600	
208	Pb	165	1	12.12	12.12	ppb	0.30	3600	
232	Th	165	1	5.36	5.36	ppb	2.03	1000	
238	U	165	1	0.87	0.87	ppb	1.19	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551010	0.46	536694	102.7	30 - 120	
45	Sc	1	3063474	1.21	2857458	107.2	30 - 120	
72	Ge	1	1778942	1.65	1703453	104.4	30 - 120	
115	In	1	5069432	1.01	4777220	106.1	30 - 120	
165	Ho	1	10037848	0.38	9746194	103.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\098SMPL.D\098SMPL.D#
Date Acquired:	Nov 3 2011 02:36 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-89-b
Misc Info:	
Vial Number:	3111
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.25	0.25	ppb	40.28	3600	
51	V	72	1	10.57	10.57	ppb	2.10	3600	
52	Cr	72	1	5.65	5.65	ppb	1.21	3600	
55	Mn	72	1	50.28	50.28	ppb	0.54	18000	
59	Co	72	1	0.63	0.63	ppb	4.17	3600	
60	Ni	72	1	2.16	2.16	ppb	2.97	3600	
63	Cu	72	1	1.48	1.48	ppb	1.62	3600	
66	Zn	72	1	9.84	9.84	ppb	0.64	3600	
75	As	72	1	2.49	2.49	ppb	4.02	3600	
78	Se	72	1	1.00	1.00	ppb	27.45	3600	
95	Mo	72	1	0.28	0.28	ppb	7.44	3600	
107	Ag	115	1	0.02	0.02	ppb	2.31	3600	
111	Cd	115	1	0.09	0.09	ppb	28.62	3600	
118	Sn	115	1	0.13	0.13	ppb	62.02	3600	
121	Sb	115	1	0.01	0.01	ppb	2.14	3600	
137	Ba	115	1	8.91	8.91	ppb	1.40	3600	
205	Tl	165	1	0.06	0.06	ppb	4.33	3600	
208	Pb	165	1	5.52	5.52	ppb	1.35	3600	
232	Th	165	1	6.21	6.21	ppb	1.95	1000	
238	U	165	1	0.84	0.84	ppb	1.44	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	554221	0.32	536694	103.3	30 - 120	
45	Sc	1	3031968	1.30	2857458	106.1	30 - 120	
72	Ge	1	1767246	1.01	1703453	103.7	30 - 120	
115	In	1	5054836	1.31	4777220	105.8	30 - 120	
165	Ho	1	10112975	0.67	9746194	103.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\099_CCV.D\099_CCV.D#
Date Acquired:	Nov 3 2011 02:39 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.32	ppb	2.23	50	102.6	90 - 110	
51	V	72	1	50.69	ppb	0.98	50	101.4	90 - 110	
52	Cr	72	1	51.29	ppb	0.44	50	102.6	90 - 110	
55	Mn	72	1	51.70	ppb	1.51	50	103.4	90 - 110	
59	Co	72	1	52.74	ppb	1.18	50	105.5	90 - 110	
60	Ni	72	1	52.14	ppb	0.94	50	104.3	90 - 110	
63	Cu	72	1	52.02	ppb	1.96	50	104.0	90 - 110	
66	Zn	72	1	50.49	ppb	0.28	50	101.0	90 - 110	
75	As	72	1	51.42	ppb	0.63	50	102.8	90 - 110	
78	Se	72	1	50.00	ppb	4.00	50	100.0	90 - 110	
95	Mo	72	1	51.01	ppb	0.90	50	102.0	90 - 110	
107	Ag	115	1	51.36	ppb	0.51	50	102.7	90 - 110	
111	Cd	115	1	49.74	ppb	0.82	50	99.5	90 - 110	
118	Sn	115	1	48.26	ppb	1.31	50	96.5	90 - 110	
121	Sb	115	1	47.74	ppb	1.04	50	95.5	90 - 110	
137	Ba	115	1	51.00	ppb	1.07	50	102.0	90 - 110	
205	Tl	165	1	50.90	ppb	0.56	50	101.8	90 - 110	
208	Pb	165	1	49.71	ppb	1.06	50	99.4	90 - 110	
232	Th	165	1	49.71	ppb	1.82	50	99.4	90 - 110	
238	U	165	1	49.01	ppb	0.28	50	98.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	550073	1.43	536694	102.5	30 - 120	
45	Sc	1	2973952	0.70	2857458	104.1	30 - 120	
72	Ge	1	1758955	1.13	1703453	103.3	30 - 120	
115	In	1	5023232	0.66	4777220	105.1	30 - 120	
165	Ho	1	9860540	0.34	9746194	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\100_CCB.D\100_CCB.D#
Date Acquired: Nov 3 2011 02:41 am
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.013	ppb	154.38	1.00	
51	V	72	1	0.004	ppb	163.16	1.00	
52	Cr	72	1	0.022	ppb	48.20	1.00	
55	Mn	72	1	0.053	ppb	14.11	1.00	
59	Co	72	1	0.009	ppb	18.52	1.00	
60	Ni	72	1	0.048	ppb	15.33	1.00	
63	Cu	72	1	0.040	ppb	16.39	1.00	
66	Zn	72	1	0.101	ppb	6.72	1.00	
75	As	72	1	0.016	ppb	7.52	1.00	
78	Se	72	1	0.389	ppb	27.85	1.00	
95	Mo	72	1	0.020	ppb	39.44	1.00	
107	Ag	115	1	0.009	ppb	33.87	1.00	
111	Cd	115	1	0.009	ppb	56.51	1.00	
118	Sn	115	1	0.058	ppb	12.04	1.00	
121	Sb	115	1	0.011	ppb	2.84	1.00	
137	Ba	115	1	0.014	ppb	23.28	1.00	
205	Tl	165	1	0.021	ppb	7.65	1.00	
208	Pb	165	1	0.015	ppb	10.75	1.00	
232	Th	165	1	0.044	ppb	7.58	1.00	
238	U	165	1	0.011	ppb	1.74	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	548340	0.61	536694	102.2	30 - 120	
45	Sc	1	2948426	0.74	2857458	103.2	30 - 120	
72	Ge	1	1750944	1.03	1703453	102.8	30 - 120	
115	In	1	5042483	1.23	4777220	105.6	30 - 120	
165	Ho	1	9969362	1.49	9746194	102.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\101WASH.D\101WASH.D#
Date Acquired: Nov 3 2011 02:44 am
Operator: LRD
Sample Name: LLICV-1106830
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.061 ppb	2.85	1.30	
51	V	72	1	4.951 ppb	0.97	6.50	
52	Cr	72	1	2.200 ppb	2.57	2.60	
55	Mn	72	1	1.236 ppb	2.02	1.30	
59	Co	72	1	1.089 ppb	1.30	1.30	
60	Ni	72	1	2.350 ppb	1.42	2.60	
63	Cu	72	1	2.202 ppb	1.16	2.60	
66	Zn	72	1	10.410 ppb	0.98	13.00	
75	As	72	1	5.250 ppb	2.10	6.50	
78	Se	72	1	5.279 ppb	5.42	6.50	
95	Mo	72	1	2.129 ppb	0.53	2.60	
107	Ag	115	1	4.972 ppb	0.74	6.50	
111	Cd	115	1	1.044 ppb	5.07	1.30	
118	Sn	115	1	9.924 ppb	1.30	13.00	
121	Sb	115	1	1.946 ppb	0.48	2.60	
137	Ba	115	1	1.098 ppb	0.93	1.30	
205	Tl	165	1	1.065 ppb	0.62	1.30	
208	Pb	165	1	1.066 ppb	0.48	1.30	
232	Th	165	1	2.009 ppb	2.95	2.60	
238	U	165	1	1.027 ppb	1.30	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	548947	1.10	536694	102.3	30 - 120	
45	Sc	1	2963971	1.19	2857458	103.7	30 - 120	
72	Ge	1	1771790	1.42	1703453	104.0	30 - 120	
115	In	1	5055459	0.56	4777220	105.8	30 - 120	
165	Ho	1	9932726	0.84	9746194	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\102SMPL.D\102SMPL.D#
Date Acquired:	Nov 3 2011 02:47 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-90-a
Misc Info:	
Vial Number:	3112
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	3.39	3600	
51	V	72	1	8.22	8.22	ppb	0.68	3600	
52	Cr	72	1	4.41	4.41	ppb	1.32	3600	
55	Mn	72	1	95.50	95.50	ppb	2.11	18000	
59	Co	72	1	0.58	0.58	ppb	2.91	3600	
60	Ni	72	1	1.89	1.89	ppb	2.49	3600	
63	Cu	72	1	2.27	2.27	ppb	0.39	3600	
66	Zn	72	1	10.89	10.89	ppb	1.03	3600	
75	As	72	1	2.02	2.02	ppb	2.49	3600	
78	Se	72	1	0.81	0.81	ppb	28.05	3600	
95	Mo	72	1	0.26	0.26	ppb	6.03	3600	
107	Ag	115	1	0.04	0.04	ppb	9.62	3600	
111	Cd	115	1	0.08	0.08	ppb	8.17	3600	
118	Sn	115	1	0.12	0.12	ppb	2.82	3600	
121	Sb	115	1	0.02	0.02	ppb	2.42	3600	
137	Ba	115	1	11.00	11.00	ppb	1.79	3600	
205	Tl	165	1	0.06	0.06	ppb	2.34	3600	
208	Pb	165	1	8.51	8.51	ppb	1.20	3600	
232	Th	165	1	3.86	3.86	ppb	2.43	1000	
238	U	165	1	0.63	0.63	ppb	2.28	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	556063	1.05	536694	103.6	30 - 120	
45	Sc	1	3000006	0.94	2857458	105.0	30 - 120	
72	Ge	1	1767915	1.12	1703453	103.8	30 - 120	
115	In	1	5026151	0.80	4777220	105.2	30 - 120	
165	Ho	1	10082060	0.91	9746194	103.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\103SMPL.D\103SMPL.D#
Date Acquired: Nov 3 2011 02:50 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-91-b
Misc Info:
Vial Number: 3201
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.25	0.25	ppb	25.45	3600	
51 V	72	1	10.71	10.71	ppb	1.18	3600	
52 Cr	72	1	5.51	5.51	ppb	1.36	3600	
55 Mn	72	1	104.40	104.40	ppb	1.52	18000	
59 Co	72	1	0.75	0.75	ppb	1.98	3600	
60 Ni	72	1	2.52	2.52	ppb	1.64	3600	
63 Cu	72	1	1.45	1.45	ppb	3.30	3600	
66 Zn	72	1	11.28	11.28	ppb	0.86	3600	
75 As	72	1	2.47	2.47	ppb	1.22	3600	
78 Se	72	1	1.00	1.00	ppb	28.48	3600	
95 Mo	72	1	0.24	0.24	ppb	8.31	3600	
107 Ag	115	1	0.02	0.02	ppb	12.46	3600	
111 Cd	115	1	0.09	0.09	ppb	7.62	3600	
118 Sn	115	1	0.14	0.14	ppb	4.77	3600	
121 Sb	115	1	0.01	0.01	ppb	26.66	3600	
137 Ba	115	1	11.05	11.05	ppb	1.64	3600	
205 Tl	165	1	0.06	0.06	ppb	4.11	3600	
208 Pb	165	1	4.79	4.79	ppb	1.01	3600	
232 Th	165	1	4.25	4.25	ppb	1.28	1000	
238 U	165	1	0.67	0.67	ppb	2.10	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	556100	0.97	536694	103.6	30 - 120	
45 Sc	1	3019695	1.53	2857458	105.7	30 - 120	
72 Ge	1	1754497	0.70	1703453	103.0	30 - 120	
115 In	1	4986945	0.65	4777220	104.4	30 - 120	
165 Ho	1	9971155	1.20	9746194	102.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\104SMPL.D\104SMPL.D#
Date Acquired:	Nov 3 2011 02:53 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-92-a
Misc Info:	
Vial Number:	3202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.25	0.25	ppb	12.13	3600	
51	V	72	1	7.36	7.36	ppb	2.50	3600	
52	Cr	72	1	3.81	3.81	ppb	2.42	3600	
55	Mn	72	1	125.10	125.10	ppb	1.75	18000	
59	Co	72	1	0.57	0.57	ppb	1.68	3600	
60	Ni	72	1	1.65	1.65	ppb	3.28	3600	
63	Cu	72	1	2.16	2.16	ppb	1.30	3600	
66	Zn	72	1	13.72	13.72	ppb	0.71	3600	
75	As	72	1	2.15	2.15	ppb	1.16	3600	
78	Se	72	1	0.90	0.90	ppb	27.12	3600	
95	Mo	72	1	0.25	0.25	ppb	4.51	3600	
107	Ag	115	1	0.03	0.03	ppb	5.20	3600	
111	Cd	115	1	0.10	0.10	ppb	4.48	3600	
118	Sn	115	1	0.10	0.10	ppb	5.82	3600	
121	Sb	115	1	0.02	0.02	ppb	2.21	3600	
137	Ba	115	1	14.53	14.53	ppb	1.78	3600	
205	Tl	165	1	0.05	0.05	ppb	5.81	3600	
208	Pb	165	1	10.19	10.19	ppb	0.82	3600	
232	Th	165	1	3.16	3.16	ppb	0.37	1000	
238	U	165	1	0.61	0.61	ppb	1.99	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552904	1.75	536694	103.0	30 - 120	
45	Sc	1	3011129	1.10	2857458	105.4	30 - 120	
72	Ge	1	1749761	2.19	1703453	102.7	30 - 120	
115	In	1	4986652	0.42	4777220	104.4	30 - 120	
165	Ho	1	10002231	0.63	9746194	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\105SMPL.D\105SMPL.D#
Date Acquired: Nov 3 2011 02:56 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-93-b
Misc Info:
Vial Number: 3203
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	18.53	3600	
51	V	72	1	8.93	8.93	ppb	1.59	3600	
52	Cr	72	1	4.52	4.52	ppb	2.44	3600	
55	Mn	72	1	85.25	85.25	ppb	0.52	18000	
59	Co	72	1	0.65	0.65	ppb	1.51	3600	
60	Ni	72	1	1.79	1.79	ppb	2.54	3600	
63	Cu	72	1	1.61	1.61	ppb	1.45	3600	
66	Zn	72	1	10.87	10.87	ppb	0.35	3600	
75	As	72	1	2.45	2.45	ppb	3.33	3600	
78	Se	72	1	0.52	0.52	ppb	29.52	3600	
95	Mo	72	1	0.20	0.20	ppb	6.58	3600	
107	Ag	115	1	0.02	0.02	ppb	11.78	3600	
111	Cd	115	1	0.09	0.09	ppb	9.38	3600	
118	Sn	115	1	0.11	0.11	ppb	16.43	3600	
121	Sb	115	1	0.01	0.01	ppb	4.82	3600	
137	Ba	115	1	11.55	11.55	ppb	1.15	3600	
205	Tl	165	1	0.05	0.05	ppb	1.91	3600	
208	Pb	165	1	4.60	4.60	ppb	1.20	3600	
232	Th	165	1	3.16	3.16	ppb	2.01	1000	
238	U	165	1	0.55	0.55	ppb	0.77	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	546553	0.95	536694	101.8	30 - 120	
45	Sc	1	3000176	1.30	2857458	105.0	30 - 120	
72	Ge	1	1758911	0.42	1703453	103.3	30 - 120	
115	In	1	5020461	0.40	4777220	105.1	30 - 120	
165	Ho	1	9997975	1.25	9746194	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\106SMPL.D\106SMPL.D#
Date Acquired: Nov 3 2011 02:59 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21683-a-94-a
Misc Info:
Vial Number: 3204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.28	0.28	ppb	9.52	3600	
51	V	72	1	20.31	20.31	ppb	1.19	3600	
52	Cr	72	1	8.36	8.36	ppb	1.59	3600	
55	Mn	72	1	87.08	87.08	ppb	1.22	18000	
59	Co	72	1	0.92	0.92	ppb	1.71	3600	
60	Ni	72	1	3.33	3.33	ppb	1.37	3600	
63	Cu	72	1	2.50	2.50	ppb	1.20	3600	
66	Zn	72	1	12.80	12.80	ppb	0.92	3600	
75	As	72	1	3.96	3.96	ppb	2.09	3600	
78	Se	72	1	1.58	1.58	ppb	9.93	3600	
95	Mo	72	1	0.56	0.56	ppb	2.61	3600	
107	Ag	115	1	0.04	0.04	ppb	4.15	3600	
111	Cd	115	1	0.06	0.06	ppb	5.59	3600	
118	Sn	115	1	0.14	0.14	ppb	6.78	3600	
121	Sb	115	1	0.02	0.02	ppb	7.92	3600	
137	Ba	115	1	11.31	11.31	ppb	0.55	3600	
205	Tl	165	1	0.11	0.11	ppb	4.05	3600	
208	Pb	165	1	44.94	44.94	ppb	1.61	3600	
232	Th	165	1	8.40	8.40	ppb	2.83	1000	
238	U	165	1	1.30	1.30	ppb	2.16	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	556095	0.88	536694	103.6	30 - 120	
45	Sc	1	3021295	0.82	2857458	105.7	30 - 120	
72	Ge	1	1761703	1.09	1703453	103.4	30 - 120	
115	In	1	5013354	1.19	4777220	104.9	30 - 120	
165	Ho	1	10114114	0.61	9746194	103.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\107SMPL.D\107SMPL.D#
Date Acquired:	Nov 3 2011 03:02 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21683-a-95-a
Misc Info:	
Vial Number:	3205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.58	0.58	ppb	12.18	3600	
51	V	72	1	28.15	28.15	ppb	1.21	3600	
52	Cr	72	1	15.75	15.75	ppb	1.38	3600	
55	Mn	72	1	234.00	234.00	ppb	2.73	18000	
59	Co	72	1	2.58	2.58	ppb	2.36	3600	
60	Ni	72	1	9.32	9.32	ppb	2.39	3600	
63	Cu	72	1	3.63	3.63	ppb	0.52	3600	
66	Zn	72	1	20.97	20.97	ppb	1.34	3600	
75	As	72	1	6.04	6.04	ppb	1.66	3600	
78	Se	72	1	1.41	1.41	ppb	11.22	3600	
95	Mo	72	1	0.71	0.71	ppb	1.14	3600	
107	Ag	115	1	0.03	0.03	ppb	7.20	3600	
111	Cd	115	1	0.09	0.09	ppb	6.35	3600	
118	Sn	115	1	0.19	0.19	ppb	6.37	3600	
121	Sb	115	1	0.02	0.02	ppb	22.28	3600	
137	Ba	115	1	15.38	15.38	ppb	0.69	3600	
205	Tl	165	1	0.12	0.12	ppb	0.95	3600	
208	Pb	165	1	13.91	13.91	ppb	1.58	3600	
232	Th	165	1	9.67	9.67	ppb	2.17	1000	
238	U	165	1	1.37	1.37	ppb	1.38	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	555364	1.68	536694	103.5	30 - 120	
45	Sc	1	2967863	0.51	2857458	103.9	30 - 120	
72	Ge	1	1759521	0.59	1703453	103.3	30 - 120	
115	In	1	4983975	0.65	4777220	104.3	30 - 120	
165	Ho	1	10004403	0.87	9746194	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\108_CCV.D\108_CCV.D#
Date Acquired: Nov 3 2011 03:05 am
Operator: LRD
Sample Name: CCV-1106831
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.88	ppb	3.36	50	101.8	90 - 110	
51	V	72	1	50.86	ppb	0.71	50	101.7	90 - 110	
52	Cr	72	1	50.62	ppb	1.75	50	101.2	90 - 110	
55	Mn	72	1	50.91	ppb	0.71	50	101.8	90 - 110	
59	Co	72	1	53.25	ppb	1.34	50	106.5	90 - 110	
60	Ni	72	1	51.68	ppb	1.86	50	103.4	90 - 110	
63	Cu	72	1	51.91	ppb	0.87	50	103.8	90 - 110	
66	Zn	72	1	50.12	ppb	1.20	50	100.2	90 - 110	
75	As	72	1	50.92	ppb	0.73	50	101.8	90 - 110	
78	Se	72	1	50.33	ppb	2.33	50	100.7	90 - 110	
95	Mo	72	1	51.01	ppb	0.82	50	102.0	90 - 110	
107	Ag	115	1	50.49	ppb	1.40	50	101.0	90 - 110	
111	Cd	115	1	49.49	ppb	2.44	50	99.0	90 - 110	
118	Sn	115	1	48.06	ppb	0.98	50	96.1	90 - 110	
121	Sb	115	1	47.08	ppb	1.35	50	94.2	90 - 110	
137	Ba	115	1	49.94	ppb	0.88	50	99.9	90 - 110	
205	Tl	165	1	50.76	ppb	1.05	50	101.5	90 - 110	
208	Pb	165	1	49.79	ppb	1.95	50	99.6	90 - 110	
232	Th	165	1	49.59	ppb	2.76	50	99.2	90 - 110	
238	U	165	1	48.87	ppb	2.14	50	97.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552908	1.39	536694	103.0	30 - 120	
45	Sc	1	2977784	1.63	2857458	104.2	30 - 120	
72	Ge	1	1776910	1.58	1703453	104.3	30 - 120	
115	In	1	5106459	0.58	4777220	106.9	30 - 120	
165	Ho	1	9940335	0.91	9746194	102.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\109_CCB.D\109_CCB.D#
Date Acquired:	Nov 3 2011 03:08 am
Operator:	LRD
Sample Name:	CCB-1106802
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	177.53	1.00	
51	V	72	1	0.001	ppb	1899.80	1.00	
52	Cr	72	1	0.021	ppb	54.17	1.00	
55	Mn	72	1	0.061	ppb	5.38	1.00	
59	Co	72	1	0.008	ppb	28.36	1.00	
60	Ni	72	1	0.043	ppb	24.61	1.00	
63	Cu	72	1	0.040	ppb	7.23	1.00	
66	Zn	72	1	0.115	ppb	12.11	1.00	
75	As	72	1	0.016	ppb	38.07	1.00	
78	Se	72	1	0.046	ppb	205.98	1.00	
95	Mo	72	1	0.019	ppb	8.69	1.00	
107	Ag	115	1	0.010	ppb	6.63	1.00	
111	Cd	115	1	0.009	ppb	84.27	1.00	
118	Sn	115	1	0.046	ppb	18.11	1.00	
121	Sb	115	1	0.013	ppb	22.73	1.00	
137	Ba	115	1	0.013	ppb	48.84	1.00	
205	Tl	165	1	0.022	ppb	10.44	1.00	
208	Pb	165	1	0.014	ppb	3.23	1.00	
232	Th	165	1	0.038	ppb	6.24	1.00	
238	U	165	1	0.011	ppb	5.79	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	549518	1.00	536694	102.4	30 - 120	
45	Sc	1	2999424	2.00	2857458	105.0	30 - 120	
72	Ge	1	1774569	1.24	1703453	104.2	30 - 120	
115	In	1	5075274	1.44	4777220	106.2	30 - 120	
165	Ho	1	10006915	0.64	9746194	102.7	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\110WASH.D\110WASH.D#
Date Acquired: Nov 3 2011 03:11 am
Operator: LRD
Sample Name: LLICV-1106830
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.128 ppb	6.32	1.30	
51	V	72	1	4.977 ppb	2.01	6.50	
52	Cr	72	1	2.168 ppb	1.27	2.60	
55	Mn	72	1	1.231 ppb	1.53	1.30	
59	Co	72	1	1.085 ppb	3.98	1.30	
60	Ni	72	1	2.322 ppb	1.98	2.60	
63	Cu	72	1	2.200 ppb	2.56	2.60	
66	Zn	72	1	10.400 ppb	0.57	13.00	
75	As	72	1	5.146 ppb	1.88	6.50	
78	Se	72	1	5.535 ppb	3.92	6.50	
95	Mo	72	1	2.142 ppb	0.91	2.60	
107	Ag	115	1	4.992 ppb	0.76	6.50	
111	Cd	115	1	1.041 ppb	0.93	1.30	
118	Sn	115	1	9.800 ppb	0.44	13.00	
121	Sb	115	1	1.955 ppb	1.47	2.60	
137	Ba	115	1	1.113 ppb	1.52	1.30	
205	Tl	165	1	1.075 ppb	1.61	1.30	
208	Pb	165	1	1.066 ppb	2.68	1.30	
232	Th	165	1	1.992 ppb	3.08	2.60	
238	U	165	1	1.036 ppb	2.48	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	553396	0.62	536694	103.1	30 - 120	
45	Sc	1	2974855	1.21	2857458	104.1	30 - 120	
72	Ge	1	1767280	0.82	1703453	103.7	30 - 120	
115	In	1	5052791	1.27	4777220	105.8	30 - 120	
165	Ho	1	9924395	1.93	9746194	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\111_BLK.D\111_BLK.D#
Date Acquired: Nov 3 2011 03:14 am
Operator: LRD
Sample Name: mb 280-94386/1-a
Misc Info: BLANK 94386 200.8
Vial Number: 3206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.004 ppb	358.58	2.00	
51 V	72	1	0.020 ppb	294.23	2.00	
52 Cr	72	1	0.000 ppb	4966.10	2.00	
55 Mn	72	1	0.107 ppb	10.15	2.00	
59 Co	72	1	0.005 ppb	7.50	2.00	
60 Ni	72	1	0.014 ppb	39.15	2.00	
63 Cu	72	1	0.051 ppb	8.77	2.00	
66 Zn	72	1	0.891 ppb	2.14	2.00	
75 As	72	1	0.145 ppb	7.59	2.00	
78 Se	72	1	0.135 ppb	82.32	2.00	
95 Mo	72	1	0.008 ppb	28.02	2.00	
107 Ag	115	1	0.010 ppb	19.04	2.00	
111 Cd	115	1	0.007 ppb	36.19	2.00	
118 Sn	115	1	0.064 ppb	4.56	2.00	
121 Sb	115	1	0.018 ppb	13.27	2.00	
137 Ba	115	1	0.038 ppb	16.69	2.00	
205 Tl	165	1	0.082 ppb	33.75	2.00	
208 Pb	165	1	0.106 ppb	12.82	2.00	
232 Th	165	1	0.012 ppb	18.70	2.00	
238 U	165	1	0.005 ppb	8.40	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	558662	2.61	536694	104.1	30 - 120	
45 Sc	1	2877190	0.20	2857458	100.7	30 - 120	
72 Ge	1	1732576	1.70	1703453	101.7	30 - 120	
115 In	1	4909277	1.36	4777220	102.8	30 - 120	
165 Ho	1	9810785	1.14	9746194	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\112_LCS.D\112_LCS.D#
Date Acquired: Nov 3 2011 03:16 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-94386/2-a
Misc Info: LCS
Vial Number: 3207
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	32.25	3.64	40	80.6	80 - 120	
51 V	72	1	29.69	1.02	40	74.2	80 - 120	
52 Cr	72	1	30.53	1.78	40	76.3	80 - 120	
55 Mn	72	1	30.80	1.43	40	77.0	80 - 120	
59 Co	72	1	32.96	1.13	40	82.4	80 - 120	
60 Ni	72	1	32.35	1.16	40	80.9	80 - 120	
63 Cu	72	1	31.40	0.39	40	78.5	80 - 120	
66 Zn	72	1	32.60	0.19	40	81.5	80 - 120	
75 As	72	1	32.67	0.57	40	81.7	80 - 120	
78 Se	72	1	33.08	1.97	40	82.7	80 - 120	
95 Mo	72	1	32.71	0.39	40	81.8	80 - 120	
107 Ag	115	1	31.36	1.72	40	78.4	80 - 120	
111 Cd	115	1	31.39	0.76	40	78.5	80 - 120	
118 Sn	115	1	30.58	0.90	40	76.5	80 - 120	
121 Sb	115	1	30.09	0.67	40	75.2	80 - 120	
137 Ba	115	1	32.20	1.67	40	80.5	80 - 120	
205 Tl	165	1	33.00	0.37	40	82.5	80 - 120	
208 Pb	165	1	31.68	1.80	40	79.2	80 - 120	
232 Th	165	1	31.82	3.06	40	79.6	80 - 120	
238 U	165	1	32.35	2.39	40	80.9	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	519369	1.04	536694	96.8	30 - 120	
45 Sc	1	2679963	1.50	2857458	93.8	30 - 120	
72 Ge	1	1603140	0.72	1703453	94.1	30 - 120	
115 In	1	4699990	0.48	4777220	98.4	30 - 120	
165 Ho	1	9565640	0.76	9746194	98.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Labratory Control Spike Duplicate Sample (LCSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\113LCSD.D\113LCSD.D#
Date Acquired:	Nov 3 2011 03:19 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcsd 280-94386/3-a
Misc Info:	LCSD
Vial Number:	3208
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	LCSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110211.B\112_LCS.D\112_LCS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9	Be	6	1	32.74	ppb	1.07	32.25	1.51	2000	
51	V	72	1	29.86	ppb	0.66	29.69	0.57	2000	
52	Cr	72	1	30.68	ppb	0.85	30.53	0.49	2000	
55	Mn	72	1	30.72	ppb	1.38	30.80	0.26	2000	
59	Co	72	1	32.90	ppb	1.82	32.96	0.18	2000	
60	Ni	72	1	31.98	ppb	1.02	32.35	1.15	2000	
63	Cu	72	1	31.21	ppb	0.67	31.40	0.61	2000	
66	Zn	72	1	32.33	ppb	0.23	32.60	0.83	2000	
75	As	72	1	32.66	ppb	0.60	32.67	0.03	2000	
78	Se	72	1	33.96	ppb	3.09	33.08	2.63	2000	
95	Mo	72	1	32.69	ppb	1.55	32.71	0.06	2000	
107	Ag	115	1	31.62	ppb	1.15	31.36	0.83	2000	
111	Cd	115	1	31.83	ppb	1.33	31.39	1.39	2000	
118	Sn	115	1	31.12	ppb	0.97	30.58	1.75	2000	
121	Sb	115	1	30.82	ppb	0.98	30.09	2.40	2000	
137	Ba	115	1	32.71	ppb	1.47	32.20	1.57	2000	
205	Tl	165	1	33.19	ppb	0.65	33.00	0.57	2000	
208	Pb	165	1	32.23	ppb	1.74	31.68	1.72	2000	
232	Th	165	1	32.61	ppb	2.83	31.82	2.45	2000	
238	U	165	1	32.72	ppb	3.00	32.35	1.14	2000	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	500464	1.13	536694	93.2	30 - 120	
45	Sc	1	2604190	2.16	2857458	91.1	30 - 120	
72	Ge	1	1585472	0.70	1703453	93.1	30 - 120	
115	In	1	4600149	1.37	4777220	96.3	30 - 120	
165	Ho	1	9471105	1.24	9746194	97.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\114AREF.D\114AREF.D#
Date Acquired:	Nov 3 2011 03:22 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22013-b-1-f
Misc Info:	
Vial Number:	3209
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	314.92	3600	
51	V	72	1	0.54	0.54	ppb	16.59	3600	
52	Cr	72	1	5.56	5.56	ppb	0.37	3600	
55	Mn	72	1	1.30	1.30	ppb	1.35	18000	
59	Co	72	1	0.05	0.05	ppb	6.37	3600	
60	Ni	72	1	6.41	6.41	ppb	3.08	3600	
63	Cu	72	1	9.68	9.68	ppb	0.26	3600	
66	Zn	72	1	3.56	3.56	ppb	1.22	3600	
75	As	72	1	0.41	0.41	ppb	5.73	3600	
78	Se	72	1	0.40	0.40	ppb	35.64	3600	
95	Mo	72	1	0.41	0.41	ppb	6.39	3600	
107	Ag	115	1	0.24	0.24	ppb	4.50	3600	
111	Cd	115	1	0.03	0.03	ppb	22.36	3600	
118	Sn	115	1	0.07	0.07	ppb	5.44	3600	
121	Sb	115	1	0.31	0.31	ppb	2.08	3600	
137	Ba	115	1	9.99	9.99	ppb	0.29	3600	
205	Tl	165	1	0.02	0.02	ppb	7.34	3600	
208	Pb	165	1	0.30	0.30	ppb	1.55	3600	
232	Th	165	1	0.07	0.07	ppb	10.49	1000	
238	U	165	1	0.02	0.02	ppb	4.41	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	484509	0.49	536694	90.3	30 - 120	
45	Sc	1	2523995	1.12	2857458	88.3	30 - 120	
72	Ge	1	1540432	0.91	1703453	90.4	30 - 120	
115	In	1	4533553	0.23	4777220	94.9	30 - 120	
165	Ho	1	9392270	0.68	9746194	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\115_MS.D\115_MS.D#		
Date Acquired:	Nov 3 2011 03:25 am	**QC Summary:**	
Acq. Method:	NormISIS.M	**Analytes:**	**Pass**
Operator:	LRD	**ISTD:**	**Pass**
Sample Name:	280-22013-b-1-g ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	3210		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 02 2011 10:03 pm		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	31.25	0.01	ppb	2.20	40	78.1	50 - 150	
51	V	72	1	28.43	0.54	ppb	1.37	40	70.1	50 - 150	
52	Cr	72	1	33.51	5.56	ppb	0.83	40	73.6	50 - 150	
55	Mn	72	1	29.71	1.30	ppb	0.33	40	71.9	50 - 150	
59	Co	72	1	29.61	0.05	ppb	1.83	40	73.9	50 - 150	
60	Ni	72	1	35.86	6.41	ppb	0.28	40	77.3	50 - 150	
63	Cu	72	1	37.78	9.68	ppb	0.52	40	76.1	50 - 150	
66	Zn	72	1	32.65	3.56	ppb	0.23	40	74.9	50 - 150	
75	As	72	1	31.23	0.41	ppb	0.50	40	77.3	50 - 150	
78	Se	72	1	31.72	0.40	ppb	3.69	40	78.5	50 - 150	
95	Mo	72	1	30.92	0.41	ppb	0.92	40	76.5	50 - 150	
107	Ag	115	1	28.67	0.24	ppb	0.13	40	71.2	50 - 150	
111	Cd	115	1	29.45	0.03	ppb	0.44	40	73.6	50 - 150	
118	Sn	115	1	28.81	0.07	ppb	0.14	40	71.9	50 - 150	
121	Sb	115	1	28.71	0.31	ppb	0.66	40	71.2	50 - 150	
137	Ba	115	1	39.40	9.99	ppb	1.20	40	78.8	50 - 150	
205	Tl	165	1	31.06	0.02	ppb	1.12	40	77.6	50 - 150	
208	Pb	165	1	29.63	0.30	ppb	1.52	40	73.5	50 - 150	
232	Th	165	1	31.30	0.07	ppb	1.83	40	78.1	50 - 150	
238	U	165	1	31.21	0.02	ppb	2.00	40	78.0	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	474579	0.60	536694	88.4	30 - 120	
45	Sc	1	2521801	1.78	2857458	88.3	30 - 120	
72	Ge	1	1537091	0.28	1703453	90.2	30 - 120	
115	In	1	4545639	0.56	4777220	95.2	30 - 120	
165	Ho	1	9302439	0.85	9746194	95.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\116_MSD.D\116_MSD.D#
Date Acquired:	Nov 3 2011 03:28 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22013-b-1-h msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	3211
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110211.B\115_MS.D\115_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	33.57	ppb	2.59	31.25	7.16	20	
51	V	72	1	30.62	ppb	0.63	28.43	7.42	20	
52	Cr	72	1	35.35	ppb	1.22	33.51	5.34	20	
55	Mn	72	1	31.67	ppb	0.97	29.71	6.39	20	
59	Co	72	1	31.61	ppb	0.81	29.61	6.53	20	
60	Ni	72	1	37.75	ppb	0.07	35.86	5.14	20	
63	Cu	72	1	40.08	ppb	1.08	37.78	5.91	20	
66	Zn	72	1	34.93	ppb	0.65	32.65	6.75	20	
75	As	72	1	33.42	ppb	0.53	31.23	6.77	20	
78	Se	72	1	33.32	ppb	3.02	31.72	4.92	20	
95	Mo	72	1	33.32	ppb	0.92	30.92	7.47	20	
107	Ag	115	1	30.89	ppb	1.31	28.67	7.45	20	
111	Cd	115	1	31.57	ppb	0.71	29.45	6.95	20	
118	Sn	115	1	31.24	ppb	1.77	28.81	8.09	20	
121	Sb	115	1	30.94	ppb	1.53	28.71	7.48	20	
137	Ba	115	1	42.52	ppb	1.37	39.40	7.62	20	
205	Tl	165	1	33.16	ppb	0.51	31.06	6.54	20	
208	Pb	165	1	31.91	ppb	1.29	29.63	7.41	20	
232	Th	165	1	33.30	ppb	2.19	31.30	6.19	20	
238	U	165	1	33.32	ppb	1.43	31.21	6.54	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	473705	0.40	536694	88.3	30 - 120	
45	Sc	1	2465419	0.71	2857458	86.3	30 - 120	
72	Ge	1	1512675	0.44	1703453	88.8	30 - 120	
115	In	1	4450100	1.30	4777220	93.2	30 - 120	
165	Ho	1	9217819	0.46	9746194	94.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\117SMPL.D\117SMPL.D#
Date Acquired: Nov 3 2011 03:31 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22013-b-2-d
Misc Info:
Vial Number: 3212
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	82.70	3600	
51	V	72	1	0.87	0.87	ppb	5.01	3600	
52	Cr	72	1	1.93	1.93	ppb	1.24	3600	
55	Mn	72	1	33.80	33.80	ppb	0.87	18000	
59	Co	72	1	1.88	1.88	ppb	1.54	3600	
60	Ni	72	1	4.33	4.33	ppb	1.94	3600	
63	Cu	72	1	72.01	72.01	ppb	1.27	3600	
66	Zn	72	1	155.80	155.80	ppb	0.83	3600	
75	As	72	1	0.83	0.83	ppb	2.17	3600	
78	Se	72	1	0.52	0.52	ppb	55.56	3600	
95	Mo	72	1	2.12	2.12	ppb	0.99	3600	
107	Ag	115	1	0.80	0.80	ppb	3.02	3600	
111	Cd	115	1	0.43	0.43	ppb	1.13	3600	
118	Sn	115	1	1.23	1.23	ppb	3.31	3600	
121	Sb	115	1	0.54	0.54	ppb	3.13	3600	
137	Ba	115	1	26.97	26.97	ppb	0.68	3600	
205	Tl	165	1	0.03	0.03	ppb	4.36	3600	
208	Pb	165	1	3.30	3.30	ppb	1.50	3600	
232	Th	165	1	0.11	0.11	ppb	23.48	1000	
238	U	165	1	0.07	0.07	ppb	0.87	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	455056	0.68	536694	84.8	30 - 120	
45	Sc	1	2366235	0.53	2857458	82.8	30 - 120	
72	Ge	1	1449743	1.03	1703453	85.1	30 - 120	
115	In	1	4216542	0.38	4777220	88.3	30 - 120	
165	Ho	1	8948326	0.82	9746194	91.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\118_CCV.D\118_CCV.D#
Date Acquired:	Nov 3 2011 03:34 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.35	ppb	2.03	50	102.7	90 - 110	
51	V	72	1	49.18	ppb	0.75	50	98.4	90 - 110	
52	Cr	72	1	49.18	ppb	0.36	50	98.4	90 - 110	
55	Mn	72	1	50.41	ppb	1.99	50	100.8	90 - 110	
59	Co	72	1	51.32	ppb	0.96	50	102.6	90 - 110	
60	Ni	72	1	50.24	ppb	2.17	50	100.5	90 - 110	
63	Cu	72	1	48.61	ppb	1.26	50	97.2	90 - 110	
66	Zn	72	1	50.13	ppb	1.36	50	100.3	90 - 110	
75	As	72	1	50.86	ppb	0.96	50	101.7	90 - 110	
78	Se	72	1	51.19	ppb	1.62	50	102.4	90 - 110	
95	Mo	72	1	51.44	ppb	0.97	50	102.9	90 - 110	
107	Ag	115	1	50.89	ppb	0.78	50	101.8	90 - 110	
111	Cd	115	1	49.58	ppb	0.31	50	99.2	90 - 110	
118	Sn	115	1	48.85	ppb	0.63	50	97.7	90 - 110	
121	Sb	115	1	48.35	ppb	0.87	50	96.7	90 - 110	
137	Ba	115	1	51.66	ppb	1.08	50	103.3	90 - 110	
205	Tl	165	1	52.60	ppb	0.31	50	105.2	90 - 110	
208	Pb	165	1	50.96	ppb	1.29	50	101.9	90 - 110	
232	Th	165	1	51.65	ppb	1.50	50	103.3	90 - 110	
238	U	165	1	51.56	ppb	1.36	50	103.1	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	461451	0.67	536694	86.0	30 - 120	
45	Sc	1	2480625	1.36	2857458	86.8	30 - 120	
72	Ge	1	1532496	1.72	1703453	90.0	30 - 120	
115	In	1	4513525	0.27	4777220	94.5	30 - 120	
165	Ho	1	9161127	1.02	9746194	94.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\119_CCB.D\119_CCB.D#
Date Acquired:	Nov 3 2011 03:37 am
Operator:	LRD
Sample Name:	CCB-1106802
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.015	ppb	54.51	1.00	
51	V	72	1	-0.002	ppb	388.45	1.00	
52	Cr	72	1	0.009	ppb	137.45	1.00	
55	Mn	72	1	0.044	ppb	10.76	1.00	
59	Co	72	1	0.007	ppb	31.41	1.00	
60	Ni	72	1	0.042	ppb	10.17	1.00	
63	Cu	72	1	0.044	ppb	11.36	1.00	
66	Zn	72	1	0.105	ppb	19.00	1.00	
75	As	72	1	0.005	ppb	231.27	1.00	
78	Se	72	1	0.119	ppb	32.43	1.00	
95	Mo	72	1	0.017	ppb	29.38	1.00	
107	Ag	115	1	0.010	ppb	9.73	1.00	
111	Cd	115	1	0.009	ppb	61.79	1.00	
118	Sn	115	1	0.058	ppb	14.10	1.00	
121	Sb	115	1	0.017	ppb	11.99	1.00	
137	Ba	115	1	0.012	ppb	28.59	1.00	
205	Tl	165	1	0.020	ppb	5.98	1.00	
208	Pb	165	1	0.013	ppb	16.58	1.00	
232	Th	165	1	0.066	ppb	3.47	1.00	
238	U	165	1	0.012	ppb	5.71	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	467264	0.65	536694	87.1	30 - 120	
45	Sc	1	2540866	1.62	2857458	88.9	30 - 120	
72	Ge	1	1542604	1.26	1703453	90.6	30 - 120	
115	In	1	4590767	1.04	4777220	96.1	30 - 120	
165	Ho	1	9187599	0.73	9746194	94.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\120SMPL.D\120SMPL.D#
Date Acquired: Nov 3 2011 03:40 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22053-b-1-c
Misc Info:
Vial Number: 3301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	0.00	3600	
51	V	72	1	1.15	1.15	ppb	0.77	3600	
52	Cr	72	1	2.49	2.49	ppb	1.62	3600	
55	Mn	72	1	3.62	3.62	ppb	1.32	18000	
59	Co	72	1	0.10	0.10	ppb	0.32	3600	
60	Ni	72	1	3.42	3.42	ppb	1.14	3600	
63	Cu	72	1	7.72	7.72	ppb	1.35	3600	
66	Zn	72	1	4.57	4.57	ppb	2.56	3600	
75	As	72	1	0.44	0.44	ppb	8.08	3600	
78	Se	72	1	0.10	0.10	ppb	48.03	3600	
95	Mo	72	1	0.43	0.43	ppb	10.24	3600	
107	Ag	115	1	0.14	0.14	ppb	5.92	3600	
111	Cd	115	1	0.01	0.01	ppb	20.14	3600	
118	Sn	115	1	0.12	0.12	ppb	20.49	3600	
121	Sb	115	1	0.11	0.11	ppb	0.37	3600	
137	Ba	115	1	10.25	10.25	ppb	0.35	3600	
205	Tl	165	1	0.03	0.03	ppb	24.13	3600	
208	Pb	165	1	0.34	0.34	ppb	2.40	3600	
232	Th	165	1	0.06	0.06	ppb	3.15	1000	
238	U	165	1	0.07	0.07	ppb	2.73	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	474081	0.42	536694	88.3	30 - 120	
45	Sc	1	2484008	0.56	2857458	86.9	30 - 120	
72	Ge	1	1503707	1.22	1703453	88.3	30 - 120	
115	In	1	4417892	1.09	4777220	92.5	30 - 120	
165	Ho	1	9114101	0.26	9746194	93.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\121SMPL.D\121SMPL.D#
Date Acquired: Nov 3 2011 03:43 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22053-b-2-c
Misc Info:
Vial Number: 3302
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	54.46	3600	
51	V	72	1	0.67	0.67	ppb	10.23	3600	
52	Cr	72	1	1.06	1.06	ppb	4.82	3600	
55	Mn	72	1	26.56	26.56	ppb	1.83	18000	
59	Co	72	1	1.20	1.20	ppb	2.77	3600	
60	Ni	72	1	2.80	2.80	ppb	1.08	3600	
63	Cu	72	1	44.63	44.63	ppb	0.78	3600	
66	Zn	72	1	122.00	122.00	ppb	0.84	3600	
75	As	72	1	0.77	0.77	ppb	3.91	3600	
78	Se	72	1	0.55	0.55	ppb	80.51	3600	
95	Mo	72	1	1.81	1.81	ppb	0.54	3600	
107	Ag	115	1	0.32	0.32	ppb	3.18	3600	
111	Cd	115	1	0.22	0.22	ppb	4.58	3600	
118	Sn	115	1	1.46	1.46	ppb	1.68	3600	
121	Sb	115	1	0.28	0.28	ppb	3.03	3600	
137	Ba	115	1	20.89	20.89	ppb	1.16	3600	
205	Tl	165	1	0.02	0.02	ppb	9.29	3600	
208	Pb	165	1	1.60	1.60	ppb	0.40	3600	
232	Th	165	1	0.03	0.03	ppb	15.69	1000	
238	U	165	1	0.05	0.05	ppb	5.76	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454278	0.48	536694	84.6	30 - 120	
45	Sc	1	2377355	0.57	2857458	83.2	30 - 120	
72	Ge	1	1447608	0.74	1703453	85.0	30 - 120	
115	In	1	4292767	0.55	4777220	89.9	30 - 120	
165	Ho	1	8914343	0.27	9746194	91.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\122SMPL.D\122SMPL.D#
Date Acquired: Nov 3 2011 03:46 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22020-f-1-e
Misc Info:
Vial Number: 3303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	153.56	3600	
51	V	72	1	0.02	0.02	ppb	77.78	3600	
52	Cr	72	1	0.24	0.24	ppb	15.63	3600	
55	Mn	72	1	3.00	3.00	ppb	2.04	18000	
59	Co	72	1	0.02	0.02	ppb	10.37	3600	
60	Ni	72	1	0.08	0.08	ppb	15.71	3600	
63	Cu	72	1	0.12	0.12	ppb	7.72	3600	
66	Zn	72	1	1.37	1.37	ppb	1.01	3600	
75	As	72	1	0.12	0.12	ppb	7.05	3600	
78	Se	72	1	0.25	0.25	ppb	45.46	3600	
95	Mo	72	1	0.01	0.01	ppb	19.23	3600	
107	Ag	115	1	0.01	0.01	ppb	30.55	3600	
111	Cd	115	1	0.01	0.01	ppb	23.81	3600	
118	Sn	115	1	0.04	0.04	ppb	3.74	3600	
121	Sb	115	1	0.02	0.02	ppb	10.25	3600	
137	Ba	115	1	0.19	0.19	ppb	1.77	3600	
205	Tl	165	1	0.01	0.01	ppb	9.16	3600	
208	Pb	165	1	0.03	0.03	ppb	3.14	3600	
232	Th	165	1	0.01	0.01	ppb	18.57	1000	
238	U	165	1	0.00	0.00	ppb	23.77	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	469697	1.41	536694	87.5	30 - 120	
45	Sc	1	2441605	0.97	2857458	85.4	30 - 120	
72	Ge	1	1490555	0.72	1703453	87.5	30 - 120	
115	In	1	4485682	1.81	4777220	93.9	30 - 120	
165	Ho	1	9171064	1.12	9746194	94.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\123SMPL.D\123SMPL.D#
Date Acquired:	Nov 3 2011 03:49 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22020-f-2-
Misc Info:	
Vial Number:	3304
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1202.50	3600	
51	V	72	1	0.32	0.32	ppb	21.48	3600	
52	Cr	72	1	0.32	0.32	ppb	9.91	3600	
55	Mn	72	1	132.50	132.50	ppb	0.81	18000	
59	Co	72	1	0.34	0.34	ppb	0.96	3600	
60	Ni	72	1	0.32	0.32	ppb	6.55	3600	
63	Cu	72	1	0.54	0.54	ppb	2.99	3600	
66	Zn	72	1	1.97	1.97	ppb	1.26	3600	
75	As	72	1	0.26	0.26	ppb	3.05	3600	
78	Se	72	1	0.20	0.20	ppb	53.60	3600	
95	Mo	72	1	0.10	0.10	ppb	4.56	3600	
107	Ag	115	1	0.00	0.00	ppb	15.17	3600	
111	Cd	115	1	0.01	0.01	ppb	41.69	3600	
118	Sn	115	1	0.08	0.08	ppb	13.23	3600	
121	Sb	115	1	0.04	0.04	ppb	6.20	3600	
137	Ba	115	1	16.71	16.71	ppb	0.38	3600	
205	Tl	165	1	0.01	0.01	ppb	10.24	3600	
208	Pb	165	1	0.11	0.11	ppb	2.78	3600	
232	Th	165	1	0.04	0.04	ppb	9.44	1000	
238	U	165	1	0.02	0.02	ppb	2.24	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	461366	0.58	536694	86.0	30 - 120	
45	Sc	1	2419052	1.65	2857458	84.7	30 - 120	
72	Ge	1	1479494	0.98	1703453	86.9	30 - 120	
115	In	1	4412147	0.60	4777220	92.4	30 - 120	
165	Ho	1	9121762	0.73	9746194	93.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\124SMPL.D\124SMPL.D#
Date Acquired:	Nov 3 2011 03:51 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22020-f-3-c
Misc Info:	
Vial Number:	3305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	140.40	3600	
51	V	72	1	0.29	0.29	ppb	8.68	3600	
52	Cr	72	1	0.35	0.35	ppb	4.13	3600	
55	Mn	72	1	143.50	143.50	ppb	1.59	18000	
59	Co	72	1	0.37	0.37	ppb	4.04	3600	
60	Ni	72	1	0.34	0.34	ppb	8.08	3600	
63	Cu	72	1	0.54	0.54	ppb	2.20	3600	
66	Zn	72	1	2.11	2.11	ppb	1.33	3600	
75	As	72	1	0.29	0.29	ppb	4.54	3600	
78	Se	72	1	0.25	0.25	ppb	70.23	3600	
95	Mo	72	1	0.10	0.10	ppb	2.69	3600	
107	Ag	115	1	0.00	0.00	ppb	45.74	3600	
111	Cd	115	1	0.01	0.01	ppb	36.35	3600	
118	Sn	115	1	0.04	0.04	ppb	18.02	3600	
121	Sb	115	1	0.05	0.05	ppb	8.21	3600	
137	Ba	115	1	17.91	17.91	ppb	1.14	3600	
205	Tl	165	1	0.01	0.01	ppb	9.59	3600	
208	Pb	165	1	0.12	0.12	ppb	5.20	3600	
232	Th	165	1	0.04	0.04	ppb	6.73	1000	
238	U	165	1	0.02	0.02	ppb	6.19	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	463668	0.39	536694	86.4	30 - 120	
45	Sc	1	2411062	0.32	2857458	84.4	30 - 120	
72	Ge	1	1476383	0.91	1703453	86.7	30 - 120	
115	In	1	4420605	0.76	4777220	92.5	30 - 120	
165	Ho	1	9058369	0.78	9746194	92.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\125SMPL.D\125SMPL.D#
Date Acquired: Nov 3 2011 03:54 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22020-f-4-c
Misc Info:
Vial Number: 3306
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	0.00	3600	
51	V	72	1	0.01	0.01	ppb	1050.80	3600	
52	Cr	72	1	0.21	0.21	ppb	6.31	3600	
55	Mn	72	1	0.71	0.71	ppb	6.74	18000	
59	Co	72	1	0.01	0.01	ppb	21.82	3600	
60	Ni	72	1	0.07	0.07	ppb	14.44	3600	
63	Cu	72	1	0.08	0.08	ppb	11.64	3600	
66	Zn	72	1	4.16	4.16	ppb	2.33	3600	
75	As	72	1	0.13	0.13	ppb	6.09	3600	
78	Se	72	1	0.16	0.16	ppb	98.35	3600	
95	Mo	72	1	0.00	0.00	ppb	68.67	3600	
107	Ag	115	1	0.00	0.00	ppb	17.69	3600	
111	Cd	115	1	0.00	0.00	ppb	44.32	3600	
118	Sn	115	1	0.06	0.06	ppb	15.92	3600	
121	Sb	115	1	0.01	0.01	ppb	10.53	3600	
137	Ba	115	1	0.07	0.07	ppb	5.72	3600	
205	Tl	165	1	0.01	0.01	ppb	17.02	3600	
208	Pb	165	1	0.02	0.02	ppb	10.36	3600	
232	Th	165	1	0.00	0.00	ppb	19.51	1000	
238	U	165	1	0.00	0.00	ppb	8.76	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	473819	0.92	536694	88.3	30 - 120	
45	Sc	1	2412311	1.24	2857458	84.4	30 - 120	
72	Ge	1	1497412	0.96	1703453	87.9	30 - 120	
115	In	1	4453443	0.34	4777220	93.2	30 - 120	
165	Ho	1	9300841	0.16	9746194	95.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\126SMPL.D\126SMPL.D#
Date Acquired: Nov 3 2011 03:57 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22020-f-5-c
Misc Info:
Vial Number: 3307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	86.70	3600	
51	V	72	1	0.88	0.88	ppb	5.60	3600	
52	Cr	72	1	0.59	0.59	ppb	1.40	3600	
55	Mn	72	1	197.10	197.10	ppb	1.64	18000	
59	Co	72	1	0.88	0.88	ppb	1.01	3600	
60	Ni	72	1	0.39	0.39	ppb	0.40	3600	
63	Cu	72	1	0.52	0.52	ppb	2.50	3600	
66	Zn	72	1	4.27	4.27	ppb	1.67	3600	
75	As	72	1	0.49	0.49	ppb	1.37	3600	
78	Se	72	1	0.32	0.32	ppb	40.06	3600	
95	Mo	72	1	0.06	0.06	ppb	16.05	3600	
107	Ag	115	1	0.01	0.01	ppb	29.72	3600	
111	Cd	115	1	0.01	0.01	ppb	63.79	3600	
118	Sn	115	1	0.07	0.07	ppb	0.72	3600	
121	Sb	115	1	0.03	0.03	ppb	16.35	3600	
137	Ba	115	1	27.47	27.47	ppb	0.81	3600	
205	Tl	165	1	0.02	0.02	ppb	3.50	3600	
208	Pb	165	1	0.40	0.40	ppb	1.29	3600	
232	Th	165	1	0.09	0.09	ppb	2.54	1000	
238	U	165	1	0.04	0.04	ppb	4.04	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	466060	0.94	536694	86.8	30 - 120	
45	Sc	1	2410417	0.18	2857458	84.4	30 - 120	
72	Ge	1	1483876	1.35	1703453	87.1	30 - 120	
115	In	1	4455291	1.13	4777220	93.3	30 - 120	
165	Ho	1	9068823	1.01	9746194	93.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\127_CCV.D\127_CCV.D#
Date Acquired: Nov 3 2011 04:00 am
Operator: LRD
Sample Name: CCV-1106831
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.71	ppb	0.58	50	105.4	90 - 110	
51	V	72	1	49.73	ppb	1.35	50	99.5	90 - 110	
52	Cr	72	1	50.06	ppb	2.07	50	100.1	90 - 110	
55	Mn	72	1	50.74	ppb	1.74	50	101.5	90 - 110	
59	Co	72	1	52.11	ppb	1.75	50	104.2	90 - 110	
60	Ni	72	1	50.82	ppb	0.71	50	101.6	90 - 110	
63	Cu	72	1	49.12	ppb	0.64	50	98.2	90 - 110	
66	Zn	72	1	50.20	ppb	1.34	50	100.4	90 - 110	
75	As	72	1	50.75	ppb	1.26	50	101.5	90 - 110	
78	Se	72	1	51.41	ppb	2.92	50	102.8	90 - 110	
95	Mo	72	1	51.74	ppb	1.05	50	103.5	90 - 110	
107	Ag	115	1	50.64	ppb	1.54	50	101.3	90 - 110	
111	Cd	115	1	49.61	ppb	0.39	50	99.2	90 - 110	
118	Sn	115	1	48.57	ppb	1.74	50	97.1	90 - 110	
121	Sb	115	1	47.98	ppb	1.01	50	96.0	90 - 110	
137	Ba	115	1	51.52	ppb	0.98	50	103.0	90 - 110	
205	Tl	165	1	52.59	ppb	1.02	50	105.2	90 - 110	
208	Pb	165	1	50.73	ppb	1.18	50	101.5	90 - 110	
232	Th	165	1	51.49	ppb	0.97	50	103.0	90 - 110	
238	U	165	1	51.38	ppb	1.94	50	102.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	451890	1.36	536694	84.2	30 - 120	
45	Sc	1	2488288	0.50	2857458	87.1	30 - 120	
72	Ge	1	1528217	0.74	1703453	89.7	30 - 120	
115	In	1	4537886	0.64	4777220	95.0	30 - 120	
165	Ho	1	9178474	0.77	9746194	94.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\128_CCB.D\128_CCB.D#
Date Acquired: Nov 3 2011 04:03 am
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.005	ppb	308.53	1.00	
51	V	72	1	0.000	ppb	8021.40	1.00	
52	Cr	72	1	0.016	ppb	83.71	1.00	
55	Mn	72	1	0.056	ppb	16.88	1.00	
59	Co	72	1	0.008	ppb	32.35	1.00	
60	Ni	72	1	0.042	ppb	44.61	1.00	
63	Cu	72	1	0.036	ppb	11.57	1.00	
66	Zn	72	1	0.106	ppb	18.82	1.00	
75	As	72	1	0.007	ppb	48.80	1.00	
78	Se	72	1	0.046	ppb	514.25	1.00	
95	Mo	72	1	0.017	ppb	17.61	1.00	
107	Ag	115	1	0.010	ppb	5.84	1.00	
111	Cd	115	1	0.008	ppb	9.10	1.00	
118	Sn	115	1	0.059	ppb	6.69	1.00	
121	Sb	115	1	0.016	ppb	9.00	1.00	
137	Ba	115	1	0.011	ppb	67.40	1.00	
205	Tl	165	1	0.020	ppb	13.06	1.00	
208	Pb	165	1	0.015	ppb	12.38	1.00	
232	Th	165	1	0.070	ppb	7.47	1.00	
238	U	165	1	0.012	ppb	7.76	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	468257	0.40	536694	87.2	30 - 120	
45	Sc	1	2532494	1.77	2857458	88.6	30 - 120	
72	Ge	1	1534788	2.23	1703453	90.1	30 - 120	
115	In	1	4576706	0.53	4777220	95.8	30 - 120	
165	Ho	1	9254155	0.52	9746194	95.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\129_BLK.D\129_BLK.D#
Date Acquired:	Nov 3 2011 04:06 am
Operator:	LRD
Sample Name:	mb 280-93506/1-a
Misc Info:	BLANK 93506 HOT Sb
Vial Number:	3509
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.004 ppb	0.00	2.00	
51 V	72	1	-0.054 ppb	163.53	2.00	
52 Cr	72	1	0.468 ppb	3.23	2.00	
55 Mn	72	1	2.554 ppb	1.61	2.00	Fail
59 Co	72	1	0.010 ppb	12.52	2.00	
60 Ni	72	1	0.224 ppb	22.38	2.00	
63 Cu	72	1	0.425 ppb	2.23	2.00	
66 Zn	72	1	1.033 ppb	0.94	2.00	
75 As	72	1	0.425 ppb	1.67	2.00	
78 Se	72	1	0.257 ppb	56.45	2.00	
95 Mo	72	1	0.013 ppb	30.12	2.00	
107 Ag	115	1	0.032 ppb	5.64	2.00	
111 Cd	115	1	0.011 ppb	20.18	2.00	
118 Sn	115	1	0.320 ppb	4.04	2.00	
121 Sb	115	1	0.062 ppb	9.62	2.00	
137 Ba	115	1	0.334 ppb	9.02	2.00	
205 Tl	165	1	0.033 ppb	27.55	2.00	
208 Pb	165	1	0.085 ppb	6.07	2.00	
232 Th	165	1	0.027 ppb	5.48	2.00	
238 U	165	1	0.012 ppb	11.27	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	495439	0.34	536694	92.3	30 - 120	
45 Sc	1	2357942	0.88	2857458	82.5	30 - 120	
72 Ge	1	1438140	0.51	1703453	84.4	30 - 120	
115 In	1	4358055	0.93	4777220	91.2	30 - 120	
165 Ho	1	9116420	0.91	9746194	93.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\130_LCS.D\130_LCS.D#
Date Acquired:	Nov 3 2011 04:09 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-93506/2-a
Misc Info:	LCS
Vial Number:	3510
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	41.37	1.15	40	103.4	80 - 120	
51	V	72	1	36.59	0.65	40	91.5	80 - 120	
52	Cr	72	1	40.57	1.29	40	101.4	80 - 120	
55	Mn	72	1	38.77	1.03	40	96.9	80 - 120	
59	Co	72	1	40.91	1.26	40	102.3	80 - 120	
60	Ni	72	1	41.54	1.24	40	103.9	80 - 120	
63	Cu	72	1	39.68	0.40	40	99.2	80 - 120	
66	Zn	72	1	39.98	0.53	40	100.0	80 - 120	
75	As	72	1	40.65	0.65	40	101.6	80 - 120	
78	Se	72	1	40.71	4.04	40	101.8	80 - 120	
95	Mo	72	1	41.50	0.37	40	103.8	80 - 120	
107	Ag	115	1	39.87	2.70	40	99.7	80 - 120	
111	Cd	115	1	39.09	1.01	40	97.7	80 - 120	
118	Sn	115	1	38.51	0.48	40	96.3	80 - 120	
121	Sb	115	1	36.95	1.41	40	92.4	80 - 120	
137	Ba	115	1	40.66	0.76	40	101.7	80 - 120	
205	Tl	165	1	41.60	1.78	40	104.0	80 - 120	
208	Pb	165	1	40.95	1.45	40	102.4	80 - 120	
232	Th	165	1	41.23	2.54	40	103.1	80 - 120	
238	U	165	1	42.56	1.59	40	106.4	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	481484	0.80	536694	89.7	30 - 120	
45	Sc	1	2292332	0.51	2857458	80.2	30 - 120	
72	Ge	1	1431997	0.23	1703453	84.1	30 - 120	
115	In	1	4344217	0.72	4777220	90.9	30 - 120	
165	Ho	1	8959239	1.10	9746194	91.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\131AREF.D\131AREF.D#
Date Acquired: Nov 3 2011 04:12 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 460-32706-a-22-c
Misc Info:
Vial Number: 3511
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.00	1.00	ppb	8.17	3600	
51	V	72	1	101.20	101.20	ppb	1.06	3600	
52	Cr	72	1	51.01	51.01	ppb	1.16	3600	
55	Mn	72	1	735.00	735.00	ppb	1.50	18000	
59	Co	72	1	11.64	11.64	ppb	1.31	3600	
60	Ni	72	1	21.61	21.61	ppb	1.97	3600	
63	Cu	72	1	16.23	16.23	ppb	1.16	3600	
66	Zn	72	1	67.86	67.86	ppb	0.70	3600	
75	As	72	1	9.41	9.41	ppb	1.56	3600	
78	Se	72	1	1.57	1.57	ppb	19.22	3600	
95	Mo	72	1	1.79	1.79	ppb	1.50	3600	
107	Ag	115	1	0.09	0.09	ppb	6.44	3600	
111	Cd	115	1	0.46	0.46	ppb	5.20	3600	
118	Sn	115	1	2.07	2.07	ppb	0.87	3600	
121	Sb	115	1	2.16	2.16	ppb	0.86	3600	
137	Ba	115	1	111.40	111.40	ppb	0.40	3600	
205	Tl	165	1	0.18	0.18	ppb	1.60	3600	
208	Pb	165	1	29.89	29.89	ppb	1.09	3600	
232	Th	165	1	6.77	6.77	ppb	1.79	1000	
238	U	165	1	1.59	1.59	ppb	1.06	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457011	1.49	536694	85.2	30 - 120	
45	Sc	1	2323584	2.33	2857458	81.3	30 - 120	
72	Ge	1	1386638	1.26	1703453	81.4	30 - 120	
115	In	1	4140103	0.82	4777220	86.7	30 - 120	
165	Ho	1	8957062	1.28	9746194	91.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\132SDIL.D\132SDIL.D#
Date Acquired:	Nov 3 2011 04:15 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-22-c SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	3512
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110211.B\131AREF.D\131AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.23	ppb	33.94	0.20	115.5	90 - 110	
51	V	72	1	19.04	ppb	0.94	20.24	94.1	90 - 110	
52	Cr	72	1	9.58	ppb	1.33	10.20	93.9	90 - 110	
55	Mn	72	1	149.80	ppb	0.66	147.00	101.9	90 - 110	
59	Co	72	1	2.31	ppb	1.67	2.33	99.3	90 - 110	
60	Ni	72	1	4.42	ppb	2.60	4.32	102.3	90 - 110	
63	Cu	72	1	3.28	ppb	1.59	3.25	101.1	90 - 110	
66	Zn	72	1	13.50	ppb	0.51	13.57	99.5	90 - 110	
75	As	72	1	1.84	ppb	4.14	1.88	97.9	90 - 110	
78	Se	72	1	0.54	ppb	53.53	0.31	171.4	90 - 110	
95	Mo	72	1	0.33	ppb	1.69	0.36	92.7	90 - 110	
107	Ag	115	1	0.02	ppb	12.00	0.02	99.5	90 - 110	
111	Cd	115	1	0.10	ppb	33.25	0.09	104.9	90 - 110	
118	Sn	115	1	0.42	ppb	6.72	0.41	101.8	90 - 110	
121	Sb	115	1	0.43	ppb	1.87	0.43	100.1	90 - 110	
137	Ba	115	1	21.71	ppb	1.75	22.28	97.4	90 - 110	
205	Tl	165	1	0.04	ppb	1.44	0.04	105.0	90 - 110	
208	Pb	165	1	5.99	ppb	0.11	5.98	100.2	90 - 110	
232	Th	165	1	1.32	ppb	1.17	1.35	97.4	90 - 110	
238	U	165	1	0.31	ppb	3.18	0.32	97.6	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	440070	1.19	536694	82.0	30 - 120	
45	Sc	1	2317527	1.35	2857458	81.1	30 - 120	
72	Ge	1	1425250	0.94	1703453	83.7	30 - 120	
115	In	1	4286496	1.79	4777220	89.7	30 - 120	
165	Ho	1	9020405	0.65	9746194	92.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\133PDS.D\133PDS.D#
Date Acquired:	Nov 3 2011 04:18 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-22-c PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	4101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	212.40	1.00	ppb	0.57	200	105.7	75 - 125	
51 V	72	1	283.40	101.20	ppb	0.39	200	94.1	75 - 125	
52 Cr	72	1	240.70	51.01	ppb	0.71	200	95.9	75 - 125	
55 Mn	72	1	909.20	735.00	ppb	1.36	200	97.2	75 - 125	
59 Co	72	1	209.00	11.64	ppb	0.40	200	98.8	75 - 125	
60 Ni	72	1	227.70	21.61	ppb	1.30	200	102.7	75 - 125	
63 Cu	72	1	210.10	16.23	ppb	0.67	200	97.2	75 - 125	
66 Zn	72	1	260.40	67.86	ppb	1.19	200	97.2	75 - 125	
75 As	72	1	212.80	9.40	ppb	0.71	200	101.6	75 - 125	
78 Se	72	1	210.80	1.57	ppb	1.09	200	104.6	75 - 125	
95 Mo	72	1	218.70	1.79	ppb	1.77	200	108.4	75 - 125	
107 Ag	115	1	49.92	0.09	ppb	1.52	50	99.7	75 - 125	
111 Cd	115	1	201.50	0.46	ppb	0.83	200	100.5	75 - 125	
118 Sn	115	1	204.10	2.07	ppb	1.42	200	101.0	75 - 125	
121 Sb	115	1	201.90	2.16	ppb	0.75	200	99.9	75 - 125	
137 Ba	115	1	331.40	111.40	ppb	0.43	200	106.4	75 - 125	
205 Tl	165	1	200.60	0.18	ppb	1.67	200	100.2	75 - 125	
208 Pb	165	1	226.50	29.89	ppb	1.18	200	98.5	75 - 125	
232 Th	165	1	6.63	6.77	ppb	2.40	200	3.2	75 - 125	
238 U	165	1	207.30	1.59	ppb	2.05	200	102.8	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	454586	0.81	536694	84.7	30 - 120	
45 Sc	1	2277289	1.10	2857458	79.7	30 - 120	
72 Ge	1	1356468	0.72	1703453	79.6	30 - 120	
115 In	1	4034649	0.85	4777220	84.5	30 - 120	
165 Ho	1	8742707	1.54	9746194	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\134_MS.D\134_MS.D#
Date Acquired:	Nov 3 2011 04:21 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-22-d ms
Misc Info:	MATRIX SPIKE
Vial Number:	4102
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	43.80	1.00	ppb	1.73	40	106.8	50 - 150	
51	V	72	1	238.40	101.20	ppb	1.48	40	168.8	50 - 150	
52	Cr	72	1	157.70	51.01	ppb	0.68	40	173.3	50 - 150	
55	Mn	72	1	1815.00	735.00	ppb	0.56	40	234.2	50 - 150	
59	Co	72	1	57.36	11.64	ppb	1.37	40	111.1	50 - 150	
60	Ni	72	1	64.71	21.61	ppb	2.08	40	105.0	50 - 150	
63	Cu	72	1	58.98	16.23	ppb	2.83	40	104.9	50 - 150	
66	Zn	72	1	122.30	67.86	ppb	0.69	40	113.4	50 - 150	
75	As	72	1	50.21	9.40	ppb	0.49	40	101.6	50 - 150	
78	Se	72	1	41.57	1.57	ppb	4.04	40	100.0	50 - 150	
95	Mo	72	1	44.07	1.79	ppb	1.26	40	105.4	50 - 150	
107	Ag	115	1	38.95	0.09	ppb	0.51	40	97.1	50 - 150	
111	Cd	115	1	40.89	0.46	ppb	0.66	40	101.1	50 - 150	
118	Sn	115	1	41.51	2.07	ppb	0.59	40	98.7	50 - 150	
121	Sb	115	1	34.28	2.16	ppb	0.58	40	81.3	50 - 150	
137	Ba	115	1	179.20	111.40	ppb	0.21	40	118.4	50 - 150	
205	Tl	165	1	41.97	0.18	ppb	0.48	40	104.5	50 - 150	
208	Pb	165	1	85.04	29.89	ppb	0.31	40	121.7	50 - 150	
232	Th	165	1	49.57	6.77	ppb	0.36	40	106.0	50 - 150	
238	U	165	1	44.70	1.59	ppb	0.31	40	107.5	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	448853	0.95	536694	83.6	30 - 120	
45	Sc	1	2280608	0.36	2857458	79.8	30 - 120	
72	Ge	1	1343877	0.63	1703453	78.9	30 - 120	
115	In	1	4009211	0.28	4777220	83.9	30 - 120	
165	Ho	1	8612259	0.73	9746194	88.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\135_MSD.D\135_MSD.D#
Date Acquired: Nov 3 2011 04:23 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 460-32706-a-22-e msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 4103
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110211.B\134_MS.D\134_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	43.31	ppb	3.29	43.80	1.13	20	
51	V	72	1	130.80	ppb	0.98	238.40	58.29	20	
52	Cr	72	1	89.06	ppb	0.90	157.70	55.63	20	
55	Mn	72	1	824.50	ppb	1.28	1815.00	75.05	20	
59	Co	72	1	52.03	ppb	0.86	57.36	9.74	20	
60	Ni	72	1	58.12	ppb	1.19	64.71	10.73	20	
63	Cu	72	1	53.31	ppb	1.44	58.98	10.10	20	
66	Zn	72	1	94.91	ppb	0.67	122.30	25.22	20	
75	As	72	1	47.26	ppb	1.18	50.21	6.05	20	
78	Se	72	1	39.95	ppb	6.93	41.57	3.97	20	
95	Mo	72	1	42.84	ppb	0.69	44.07	2.83	20	
107	Ag	115	1	38.98	ppb	1.24	38.95	0.08	20	
111	Cd	115	1	40.27	ppb	1.47	40.89	1.53	20	
118	Sn	115	1	40.01	ppb	1.67	41.51	3.68	20	
121	Sb	115	1	35.02	ppb	1.31	34.28	2.14	20	
137	Ba	115	1	137.20	ppb	0.82	179.20	26.55	20	
205	Tl	165	1	41.26	ppb	0.62	41.97	1.71	20	
208	Pb	165	1	63.06	ppb	1.08	85.04	29.68	20	
232	Th	165	1	46.06	ppb	0.88	49.57	7.34	20	
238	U	165	1	43.63	ppb	1.39	44.70	2.42	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	452860	0.34	536694	84.4	30 - 120	
45	Sc	1	2245225	1.14	2857458	78.6	30 - 120	
72	Ge	1	1347428	1.10	1703453	79.1	30 - 120	
115	In	1	4035122	0.90	4777220	84.5	30 - 120	
165	Ho	1	8677462	0.52	9746194	89.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\136SMPL.D\136SMPL.D#
Date Acquired:	Nov 3 2011 04:26 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-23-c
Misc Info:	
Vial Number:	4104
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.57	0.57	ppb	11.80	3600	
51	V	72	1	33.12	33.12	ppb	1.24	3600	
52	Cr	72	1	20.26	20.26	ppb	1.04	3600	
55	Mn	72	1	219.50	219.50	ppb	0.78	18000	
59	Co	72	1	9.92	9.92	ppb	0.89	3600	
60	Ni	72	1	12.08	12.08	ppb	0.90	3600	
63	Cu	72	1	11.01	11.01	ppb	0.60	3600	
66	Zn	72	1	28.47	28.47	ppb	1.46	3600	
75	As	72	1	6.84	6.84	ppb	1.54	3600	
78	Se	72	1	1.13	1.13	ppb	29.32	3600	
95	Mo	72	1	1.08	1.08	ppb	3.33	3600	
107	Ag	115	1	0.04	0.04	ppb	11.55	3600	
111	Cd	115	1	0.16	0.16	ppb	18.66	3600	
118	Sn	115	1	0.96	0.96	ppb	5.59	3600	
121	Sb	115	1	0.33	0.33	ppb	4.70	3600	
137	Ba	115	1	52.99	52.99	ppb	0.49	3600	
205	Tl	165	1	0.15	0.15	ppb	4.24	3600	
208	Pb	165	1	11.55	11.55	ppb	0.43	3600	
232	Th	165	1	4.63	4.63	ppb	0.69	1000	
238	U	165	1	1.04	1.04	ppb	1.28	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	439727	0.76	536694	81.9	30 - 120	
45	Sc	1	2224654	0.88	2857458	77.9	30 - 120	
72	Ge	1	1342125	0.34	1703453	78.8	30 - 120	
115	In	1	4088592	0.40	4777220	85.6	30 - 120	
165	Ho	1	8540594	0.23	9746194	87.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\137_CCV.D\137_CCV.D#
Date Acquired: Nov 3 2011 04:29 am
Operator: LRD
Sample Name: CCV-1106831
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.19	ppb	2.06	50	106.4	90 - 110	
51	V	72	1	47.17	ppb	0.43	50	94.3	90 - 110	
52	Cr	72	1	48.91	ppb	0.49	50	97.8	90 - 110	
55	Mn	72	1	47.92	ppb	1.07	50	95.8	90 - 110	
59	Co	72	1	51.58	ppb	0.70	50	103.2	90 - 110	
60	Ni	72	1	50.43	ppb	0.46	50	100.9	90 - 110	
63	Cu	72	1	48.50	ppb	0.38	50	97.0	90 - 110	
66	Zn	72	1	49.67	ppb	0.54	50	99.3	90 - 110	
75	As	72	1	50.77	ppb	0.27	50	101.5	90 - 110	
78	Se	72	1	51.56	ppb	1.07	50	103.1	90 - 110	
95	Mo	72	1	52.12	ppb	0.71	50	104.2	90 - 110	
107	Ag	115	1	50.14	ppb	0.99	50	100.3	90 - 110	
111	Cd	115	1	49.26	ppb	0.91	50	98.5	90 - 110	
118	Sn	115	1	48.53	ppb	1.59	50	97.1	90 - 110	
121	Sb	115	1	47.88	ppb	1.16	50	95.8	90 - 110	
137	Ba	115	1	51.45	ppb	1.62	50	102.9	90 - 110	
205	Tl	165	1	52.90	ppb	1.54	50	105.8	90 - 110	
208	Pb	165	1	50.98	ppb	0.97	50	102.0	90 - 110	
232	Th	165	1	52.69	ppb	1.05	50	105.4	90 - 110	
238	U	165	1	51.53	ppb	0.87	50	103.1	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	390388	0.43	536694	72.7	30 - 120	
45	Sc	1	2192141	2.10	2857458	76.7	30 - 120	
72	Ge	1	1378044	0.88	1703453	80.9	30 - 120	
115	In	1	4183892	0.54	4777220	87.6	30 - 120	
165	Ho	1	8623427	1.13	9746194	88.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\138_CCB.D\138_CCB.D#
Date Acquired: Nov 3 2011 04:32 am
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.007	ppb	138.11	1.00	
51	V	72	1	0.013	ppb	22.95	1.00	
52	Cr	72	1	0.011	ppb	97.20	1.00	
55	Mn	72	1	0.081	ppb	13.11	1.00	
59	Co	72	1	0.009	ppb	45.29	1.00	
60	Ni	72	1	0.030	ppb	17.98	1.00	
63	Cu	72	1	0.044	ppb	14.07	1.00	
66	Zn	72	1	0.113	ppb	11.01	1.00	
75	As	72	1	0.015	ppb	39.68	1.00	
78	Se	72	1	0.228	ppb	93.56	1.00	
95	Mo	72	1	0.024	ppb	7.12	1.00	
107	Ag	115	1	0.014	ppb	17.94	1.00	
111	Cd	115	1	0.011	ppb	33.83	1.00	
118	Sn	115	1	0.058	ppb	9.11	1.00	
121	Sb	115	1	0.022	ppb	21.84	1.00	
137	Ba	115	1	0.016	ppb	21.63	1.00	
205	Tl	165	1	0.022	ppb	3.01	1.00	
208	Pb	165	1	0.017	ppb	4.41	1.00	
232	Th	165	1	0.039	ppb	0.84	1.00	
238	U	165	1	0.015	ppb	5.25	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	399069	0.53	536694	74.4	30 - 120	
45	Sc	1	2213964	0.94	2857458	77.5	30 - 120	
72	Ge	1	1398709	1.07	1703453	82.1	30 - 120	
115	In	1	4259577	1.37	4777220	89.2	30 - 120	
165	Ho	1	8645627	1.42	9746194	88.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\139SMPL.D\139SMPL.D#
Date Acquired:	Nov 3 2011 04:35 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-24-c
Misc Info:	
Vial Number:	4105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.28	1.28	ppb	11.80	3600	
51	V	72	1	66.47	66.47	ppb	0.36	3600	
52	Cr	72	1	34.05	34.05	ppb	0.22	3600	
55	Mn	72	1	352.30	352.30	ppb	0.73	18000	
59	Co	72	1	11.20	11.20	ppb	0.49	3600	
60	Ni	72	1	22.70	22.70	ppb	0.88	3600	
63	Cu	72	1	21.82	21.82	ppb	1.10	3600	
66	Zn	72	1	40.57	40.57	ppb	0.54	3600	
75	As	72	1	8.76	8.76	ppb	2.54	3600	
78	Se	72	1	2.06	2.06	ppb	27.95	3600	
95	Mo	72	1	1.06	1.06	ppb	3.58	3600	
107	Ag	115	1	0.05	0.05	ppb	8.79	3600	
111	Cd	115	1	0.16	0.16	ppb	10.90	3600	
118	Sn	115	1	1.26	1.26	ppb	2.38	3600	
121	Sb	115	1	0.52	0.52	ppb	1.78	3600	
137	Ba	115	1	101.30	101.30	ppb	1.25	3600	
205	Tl	165	1	0.19	0.19	ppb	4.62	3600	
208	Pb	165	1	19.36	19.36	ppb	1.30	3600	
232	Th	165	1	6.64	6.64	ppb	0.57	1000	
238	U	165	1	1.36	1.36	ppb	0.64	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	453395	0.77	536694	84.5	30 - 120	
45	Sc	1	2299739	0.57	2857458	80.5	30 - 120	
72	Ge	1	1372979	0.25	1703453	80.6	30 - 120	
115	In	1	4141005	0.13	4777220	86.7	30 - 120	
165	Ho	1	8695088	1.37	9746194	89.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\140SMPL.D\140SMPL.D#
Date Acquired: Nov 3 2011 04:38 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 460-32706-a-25-c
Misc Info:
Vial Number: 4106
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.52	0.52	ppb	8.82	3600	
51	V	72	1	26.75	26.75	ppb	0.90	3600	
52	Cr	72	1	21.25	21.25	ppb	1.13	3600	
55	Mn	72	1	121.10	121.10	ppb	0.86	18000	
59	Co	72	1	3.28	3.28	ppb	0.38	3600	
60	Ni	72	1	8.78	8.78	ppb	0.67	3600	
63	Cu	72	1	8.98	8.98	ppb	0.99	3600	
66	Zn	72	1	113.60	113.60	ppb	0.27	3600	
75	As	72	1	3.72	3.72	ppb	0.71	3600	
78	Se	72	1	0.58	0.58	ppb	59.77	3600	
95	Mo	72	1	0.60	0.60	ppb	6.01	3600	
107	Ag	115	1	0.04	0.04	ppb	13.05	3600	
111	Cd	115	1	0.37	0.37	ppb	8.64	3600	
118	Sn	115	1	2.59	2.59	ppb	4.18	3600	
121	Sb	115	1	1.67	1.67	ppb	0.69	3600	
137	Ba	115	1	57.18	57.18	ppb	0.50	3600	
205	Tl	165	1	0.10	0.10	ppb	1.34	3600	
208	Pb	165	1	53.64	53.64	ppb	0.91	3600	
232	Th	165	1	4.39	4.39	ppb	1.93	1000	
238	U	165	1	0.94	0.94	ppb	1.25	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	456005	1.05	536694	85.0	30 - 120	
45	Sc	1	2287715	1.13	2857458	80.1	30 - 120	
72	Ge	1	1379575	0.33	1703453	81.0	30 - 120	
115	In	1	4175140	0.59	4777220	87.4	30 - 120	
165	Ho	1	8720914	0.39	9746194	89.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\141SMPL.D\141SMPL.D#
Date Acquired:	Nov 3 2011 04:41 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-26-c
Misc Info:	
Vial Number:	4107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.05	0.05	ppb	94.71	3600	
51	V	72	1	2.82	2.82	ppb	3.14	3600	
52	Cr	72	1	3.42	3.42	ppb	1.78	3600	
55	Mn	72	1	1.52	1.52	ppb	5.03	18000	
59	Co	72	1	0.07	0.07	ppb	6.86	3600	
60	Ni	72	1	0.22	0.22	ppb	11.86	3600	
63	Cu	72	1	0.86	0.86	ppb	0.33	3600	
66	Zn	72	1	1.33	1.33	ppb	1.80	3600	
75	As	72	1	2.81	2.81	ppb	1.78	3600	
78	Se	72	1	0.46	0.46	ppb	66.39	3600	
95	Mo	72	1	0.37	0.37	ppb	2.72	3600	
107	Ag	115	1	0.03	0.03	ppb	6.98	3600	
111	Cd	115	1	0.02	0.02	ppb	38.44	3600	
118	Sn	115	1	0.15	0.15	ppb	4.25	3600	
121	Sb	115	1	0.07	0.07	ppb	3.83	3600	
137	Ba	115	1	1.06	1.06	ppb	1.88	3600	
205	Tl	165	1	0.01	0.01	ppb	3.57	3600	
208	Pb	165	1	1.15	1.15	ppb	1.38	3600	
232	Th	165	1	0.67	0.67	ppb	3.19	1000	
238	U	165	1	0.16	0.16	ppb	1.29	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	458843	0.36	536694	85.5	30 - 120	
45	Sc	1	2264053	0.20	2857458	79.2	30 - 120	
72	Ge	1	1394703	1.37	1703453	81.9	30 - 120	
115	In	1	4276410	0.82	4777220	89.5	30 - 120	
165	Ho	1	8803615	0.87	9746194	90.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\142SMPL.D\142SMPL.D#
Date Acquired:	Nov 3 2011 04:44 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-28-e
Misc Info:	
Vial Number:	4108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.66	0.66	ppb	4.25	3600	
51	V	72	1	39.74	39.74	ppb	1.00	3600	
52	Cr	72	1	22.65	22.65	ppb	0.44	3600	
55	Mn	72	1	129.60	129.60	ppb	1.42	18000	
59	Co	72	1	4.77	4.77	ppb	1.19	3600	
60	Ni	72	1	7.59	7.59	ppb	1.73	3600	
63	Cu	72	1	7.58	7.58	ppb	1.45	3600	
66	Zn	72	1	17.82	17.82	ppb	0.88	3600	
75	As	72	1	5.36	5.36	ppb	1.00	3600	
78	Se	72	1	0.93	0.93	ppb	49.42	3600	
95	Mo	72	1	0.76	0.76	ppb	5.82	3600	
107	Ag	115	1	0.03	0.03	ppb	4.79	3600	
111	Cd	115	1	0.11	0.11	ppb	8.09	3600	
118	Sn	115	1	0.81	0.81	ppb	4.82	3600	
121	Sb	115	1	0.29	0.29	ppb	4.67	3600	
137	Ba	115	1	44.55	44.55	ppb	0.95	3600	
205	Tl	165	1	0.12	0.12	ppb	1.37	3600	
208	Pb	165	1	10.99	10.99	ppb	0.17	3600	
232	Th	165	1	4.37	4.37	ppb	1.10	1000	
238	U	165	1	0.90	0.90	ppb	0.60	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	455207	0.31	536694	84.8	30 - 120	
45	Sc	1	2295438	1.02	2857458	80.3	30 - 120	
72	Ge	1	1373379	1.28	1703453	80.6	30 - 120	
115	In	1	4163485	0.39	4777220	87.2	30 - 120	
165	Ho	1	8727375	0.11	9746194	89.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\143SMPL.D\143SMPL.D#
Date Acquired:	Nov 3 2011 04:47 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-29-c
Misc Info:	
Vial Number:	4109
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.45	0.45	ppb	12.40	3600	
51	V	72	1	22.11	22.11	ppb	0.87	3600	
52	Cr	72	1	33.50	33.50	ppb	1.04	3600	
55	Mn	72	1	136.20	136.20	ppb	0.58	18000	
59	Co	72	1	4.77	4.77	ppb	0.74	3600	
60	Ni	72	1	4.87	4.87	ppb	0.94	3600	
63	Cu	72	1	7.90	7.90	ppb	1.13	3600	
66	Zn	72	1	12.05	12.05	ppb	0.37	3600	
75	As	72	1	4.97	4.97	ppb	3.30	3600	
78	Se	72	1	1.27	1.27	ppb	18.36	3600	
95	Mo	72	1	1.33	1.33	ppb	3.69	3600	
107	Ag	115	1	0.05	0.05	ppb	5.04	3600	
111	Cd	115	1	0.11	0.11	ppb	28.44	3600	
118	Sn	115	1	0.81	0.81	ppb	1.88	3600	
121	Sb	115	1	0.22	0.22	ppb	2.93	3600	
137	Ba	115	1	55.74	55.74	ppb	0.70	3600	
205	Tl	165	1	0.19	0.19	ppb	0.43	3600	
208	Pb	165	1	12.48	12.48	ppb	1.05	3600	
232	Th	165	1	6.57	6.57	ppb	1.03	1000	
238	U	165	1	1.52	1.52	ppb	1.23	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454023	1.10	536694	84.6	30 - 120	
45	Sc	1	2313081	0.31	2857458	80.9	30 - 120	
72	Ge	1	1377534	0.85	1703453	80.9	30 - 120	
115	In	1	4202833	0.91	4777220	88.0	30 - 120	
165	Ho	1	8753050	0.74	9746194	89.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\144SMPL.D\144SMPL.D#
Date Acquired:	Nov 3 2011 04:50 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-30-e
Misc Info:	
Vial Number:	4110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.11	1.11	ppb	17.42	3600	
51	V	72	1	60.99	60.99	ppb	1.74	3600	
52	Cr	72	1	35.72	35.72	ppb	1.28	3600	
55	Mn	72	1	248.40	248.40	ppb	1.16	18000	
59	Co	72	1	10.87	10.87	ppb	1.14	3600	
60	Ni	72	1	16.60	16.60	ppb	1.24	3600	
63	Cu	72	1	15.61	15.61	ppb	0.91	3600	
66	Zn	72	1	43.25	43.25	ppb	0.36	3600	
75	As	72	1	8.63	8.63	ppb	0.74	3600	
78	Se	72	1	1.31	1.31	ppb	10.80	3600	
95	Mo	72	1	1.36	1.36	ppb	2.15	3600	
107	Ag	115	1	0.04	0.04	ppb	10.72	3600	
111	Cd	115	1	0.12	0.12	ppb	8.24	3600	
118	Sn	115	1	1.22	1.22	ppb	3.72	3600	
121	Sb	115	1	0.33	0.33	ppb	2.24	3600	
137	Ba	115	1	74.89	74.89	ppb	1.12	3600	
205	Tl	165	1	0.20	0.20	ppb	0.65	3600	
208	Pb	165	1	15.63	15.63	ppb	0.46	3600	
232	Th	165	1	9.05	9.05	ppb	0.24	1000	
238	U	165	1	2.00	2.00	ppb	0.14	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	448642	0.32	536694	83.6	30 - 120	
45	Sc	1	2315557	0.73	2857458	81.0	30 - 120	
72	Ge	1	1375150	0.56	1703453	80.7	30 - 120	
115	In	1	4160883	0.65	4777220	87.1	30 - 120	
165	Ho	1	8695288	0.53	9746194	89.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\145SMPL.D\145SMPL.D#
Date Acquired: Nov 3 2011 04:53 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 460-32706-a-31-c
Misc Info:
Vial Number: 4111
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.71	0.71	ppb	13.29	3600	
51	V	72	1	37.39	37.39	ppb	0.28	3600	
52	Cr	72	1	22.65	22.65	ppb	0.94	3600	
55	Mn	72	1	181.00	181.00	ppb	0.54	18000	
59	Co	72	1	6.83	6.83	ppb	1.45	3600	
60	Ni	72	1	12.54	12.54	ppb	2.06	3600	
63	Cu	72	1	13.24	13.24	ppb	0.33	3600	
66	Zn	72	1	37.02	37.02	ppb	1.17	3600	
75	As	72	1	6.13	6.13	ppb	1.22	3600	
78	Se	72	1	1.18	1.18	ppb	36.40	3600	
95	Mo	72	1	0.94	0.94	ppb	3.33	3600	
107	Ag	115	1	0.05	0.05	ppb	3.63	3600	
111	Cd	115	1	0.13	0.13	ppb	6.18	3600	
118	Sn	115	1	0.98	0.98	ppb	0.96	3600	
121	Sb	115	1	0.37	0.37	ppb	5.35	3600	
137	Ba	115	1	61.99	61.99	ppb	1.75	3600	
205	Tl	165	1	0.13	0.13	ppb	0.99	3600	
208	Pb	165	1	16.34	16.34	ppb	0.93	3600	
232	Th	165	1	5.12	5.12	ppb	1.63	1000	
238	U	165	1	1.30	1.30	ppb	1.20	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	453429	0.72	536694	84.5	30 - 120	
45	Sc	1	2287312	0.54	2857458	80.0	30 - 120	
72	Ge	1	1384027	1.50	1703453	81.2	30 - 120	
115	In	1	4193619	1.01	4777220	87.8	30 - 120	
165	Ho	1	8807632	0.78	9746194	90.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\146SMPL.D\146SMPL.D#
Date Acquired:	Nov 3 2011 04:56 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-32-c
Misc Info:	
Vial Number:	4112
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.29	0.29	ppb	15.43	3600	
51	V	72	1	17.89	17.89	ppb	0.95	3600	
52	Cr	72	1	12.31	12.31	ppb	0.97	3600	
55	Mn	72	1	30.63	30.63	ppb	0.92	18000	
59	Co	72	1	2.93	2.93	ppb	1.17	3600	
60	Ni	72	1	4.94	4.94	ppb	2.96	3600	
63	Cu	72	1	5.34	5.34	ppb	1.94	3600	
66	Zn	72	1	54.48	54.48	ppb	0.26	3600	
75	As	72	1	3.29	3.29	ppb	2.89	3600	
78	Se	72	1	0.95	0.95	ppb	24.12	3600	
95	Mo	72	1	0.49	0.49	ppb	3.79	3600	
107	Ag	115	1	0.03	0.03	ppb	16.14	3600	
111	Cd	115	1	0.12	0.12	ppb	25.55	3600	
118	Sn	115	1	0.54	0.54	ppb	2.76	3600	
121	Sb	115	1	0.22	0.22	ppb	3.09	3600	
137	Ba	115	1	28.17	28.17	ppb	0.72	3600	
205	Tl	165	1	0.07	0.07	ppb	2.42	3600	
208	Pb	165	1	8.02	8.02	ppb	1.07	3600	
232	Th	165	1	2.49	2.49	ppb	1.35	1000	
238	U	165	1	0.69	0.69	ppb	1.40	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	448116	0.49	536694	83.5	30 - 120	
45	Sc	1	2292274	0.43	2857458	80.2	30 - 120	
72	Ge	1	1393207	1.18	1703453	81.8	30 - 120	
115	In	1	4224914	0.61	4777220	88.4	30 - 120	
165	Ho	1	8748692	0.41	9746194	89.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\147SMPL.D\147SMPL.D#
Date Acquired:	Nov 3 2011 04:59 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-33-c
Misc Info:	
Vial Number:	4201
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.76	0.76	ppb	17.61	3600	
51	V	72	1	46.49	46.49	ppb	1.43	3600	
52	Cr	72	1	28.56	28.56	ppb	0.85	3600	
55	Mn	72	1	402.30	402.30	ppb	2.11	18000	
59	Co	72	1	10.48	10.48	ppb	1.82	3600	
60	Ni	72	1	15.08	15.08	ppb	1.72	3600	
63	Cu	72	1	13.61	13.61	ppb	2.00	3600	
66	Zn	72	1	53.71	53.71	ppb	0.94	3600	
75	As	72	1	6.57	6.57	ppb	2.31	3600	
78	Se	72	1	1.01	1.01	ppb	39.74	3600	
95	Mo	72	1	1.06	1.06	ppb	8.08	3600	
107	Ag	115	1	0.06	0.06	ppb	7.46	3600	
111	Cd	115	1	0.29	0.29	ppb	1.90	3600	
118	Sn	115	1	1.31	1.31	ppb	3.00	3600	
121	Sb	115	1	0.66	0.66	ppb	1.72	3600	
137	Ba	115	1	67.34	67.34	ppb	0.66	3600	
205	Tl	165	1	0.14	0.14	ppb	2.36	3600	
208	Pb	165	1	23.42	23.42	ppb	0.89	3600	
232	Th	165	1	4.77	4.77	ppb	1.12	1000	
238	U	165	1	1.17	1.17	ppb	1.05	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	453805	0.77	536694	84.6	30 - 120	
45	Sc	1	2289882	1.20	2857458	80.1	30 - 120	
72	Ge	1	1373404	0.47	1703453	80.6	30 - 120	
115	In	1	4174397	0.74	4777220	87.4	30 - 120	
165	Ho	1	8741421	0.46	9746194	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\148_CCV.D\148_CCV.D#
Date Acquired:	Nov 3 2011 05:02 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.07	ppb	2.81	50	104.1	90 - 110	
51	V	72	1	48.43	ppb	2.74	50	96.9	90 - 110	
52	Cr	72	1	49.57	ppb	2.72	50	99.1	90 - 110	
55	Mn	72	1	47.86	ppb	0.22	50	95.7	90 - 110	
59	Co	72	1	51.46	ppb	1.33	50	102.9	90 - 110	
60	Ni	72	1	50.60	ppb	0.57	50	101.2	90 - 110	
63	Cu	72	1	48.81	ppb	0.78	50	97.6	90 - 110	
66	Zn	72	1	49.79	ppb	0.32	50	99.6	90 - 110	
75	As	72	1	50.83	ppb	0.49	50	101.7	90 - 110	
78	Se	72	1	52.40	ppb	2.80	50	104.8	90 - 110	
95	Mo	72	1	51.93	ppb	0.72	50	103.9	90 - 110	
107	Ag	115	1	49.17	ppb	0.59	50	98.3	90 - 110	
111	Cd	115	1	48.63	ppb	0.52	50	97.3	90 - 110	
118	Sn	115	1	47.98	ppb	0.77	50	96.0	90 - 110	
121	Sb	115	1	47.20	ppb	1.06	50	94.4	90 - 110	
137	Ba	115	1	50.86	ppb	1.12	50	101.7	90 - 110	
205	Tl	165	1	52.39	ppb	0.25	50	104.8	90 - 110	
208	Pb	165	1	50.70	ppb	0.36	50	101.4	90 - 110	
232	Th	165	1	52.68	ppb	1.01	50	105.4	90 - 110	
238	U	165	1	51.79	ppb	1.41	50	103.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	392817	1.23	536694	73.2	30 - 120	
45	Sc	1	2239163	1.50	2857458	78.4	30 - 120	
72	Ge	1	1405326	0.87	1703453	82.5	30 - 120	
115	In	1	4323170	0.69	4777220	90.5	30 - 120	
165	Ho	1	8613199	0.69	9746194	88.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\149_CCB.D\149_CCB.D#
Date Acquired: Nov 3 2011 05:04 am
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.031	ppb	58.01	1.00	
51	V	72	1	-0.007	ppb	528.04	1.00	
52	Cr	72	1	0.006	ppb	107.02	1.00	
55	Mn	72	1	0.080	ppb	8.27	1.00	
59	Co	72	1	0.011	ppb	27.25	1.00	
60	Ni	72	1	0.049	ppb	7.18	1.00	
63	Cu	72	1	0.043	ppb	2.85	1.00	
66	Zn	72	1	0.101	ppb	12.05	1.00	
75	As	72	1	0.012	ppb	54.57	1.00	
78	Se	72	1	0.161	ppb	112.10	1.00	
95	Mo	72	1	0.022	ppb	17.60	1.00	
107	Ag	115	1	0.009	ppb	13.73	1.00	
111	Cd	115	1	0.008	ppb	69.09	1.00	
118	Sn	115	1	0.063	ppb	5.93	1.00	
121	Sb	115	1	0.016	ppb	4.45	1.00	
137	Ba	115	1	0.016	ppb	6.20	1.00	
205	Tl	165	1	0.020	ppb	1.67	1.00	
208	Pb	165	1	0.017	ppb	2.73	1.00	
232	Th	165	1	0.033	ppb	6.08	1.00	
238	U	165	1	0.012	ppb	3.11	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	394122	1.07	536694	73.4	30 - 120	
45	Sc	1	2291898	1.10	2857458	80.2	30 - 120	
72	Ge	1	1422648	0.56	1703453	83.5	30 - 120	
115	In	1	4328174	1.52	4777220	90.6	30 - 120	
165	Ho	1	8710199	0.35	9746194	89.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\150SMPL.D\150SMPL.D#
Date Acquired: Nov 3 2011 05:07 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 460-32706-a-34-c
Misc Info:
Vial Number: 4202
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.46	0.46	ppb	23.45	3600	
51 V	72	1	27.45	27.45	ppb	1.20	3600	
52 Cr	72	1	16.66	16.66	ppb	1.29	3600	
55 Mn	72	1	50.12	50.12	ppb	0.59	18000	
59 Co	72	1	5.62	5.62	ppb	0.48	3600	
60 Ni	72	1	7.56	7.56	ppb	2.21	3600	
63 Cu	72	1	7.24	7.24	ppb	1.33	3600	
66 Zn	72	1	19.96	19.96	ppb	0.66	3600	
75 As	72	1	6.78	6.78	ppb	0.31	3600	
78 Se	72	1	0.78	0.78	ppb	16.47	3600	
95 Mo	72	1	0.68	0.68	ppb	8.33	3600	
107 Ag	115	1	0.04	0.04	ppb	7.62	3600	
111 Cd	115	1	0.10	0.10	ppb	9.38	3600	
118 Sn	115	1	0.71	0.71	ppb	2.98	3600	
121 Sb	115	1	0.20	0.20	ppb	3.18	3600	
137 Ba	115	1	36.50	36.50	ppb	1.34	3600	
205 Tl	165	1	0.10	0.10	ppb	2.55	3600	
208 Pb	165	1	8.99	8.99	ppb	1.49	3600	
232 Th	165	1	3.69	3.69	ppb	1.93	1000	
238 U	165	1	0.85	0.85	ppb	1.75	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	460727	1.46	536694	85.8	30 - 120	
45 Sc	1	2312366	0.35	2857458	80.9	30 - 120	
72 Ge	1	1402048	0.30	1703453	82.3	30 - 120	
115 In	1	4214627	1.62	4777220	88.2	30 - 120	
165 Ho	1	8736609	0.85	9746194	89.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\151SMPL.D\151SMPL.D#
Date Acquired:	Nov 3 2011 05:10 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-35-c
Misc Info:	
Vial Number:	4203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.81	0.81	ppb	2.79	3600	
51	V	72	1	38.56	38.56	ppb	1.17	3600	
52	Cr	72	1	18.83	18.83	ppb	0.96	3600	
55	Mn	72	1	255.90	255.90	ppb	1.90	18000	
59	Co	72	1	7.81	7.81	ppb	1.10	3600	
60	Ni	72	1	10.81	10.81	ppb	0.33	3600	
63	Cu	72	1	10.16	10.16	ppb	0.52	3600	
66	Zn	72	1	30.40	30.40	ppb	1.09	3600	
75	As	72	1	5.95	5.95	ppb	1.83	3600	
78	Se	72	1	1.37	1.37	ppb	31.47	3600	
95	Mo	72	1	0.82	0.82	ppb	5.44	3600	
107	Ag	115	1	0.03	0.03	ppb	8.33	3600	
111	Cd	115	1	0.12	0.12	ppb	9.46	3600	
118	Sn	115	1	0.80	0.80	ppb	4.65	3600	
121	Sb	115	1	0.26	0.26	ppb	1.56	3600	
137	Ba	115	1	71.09	71.09	ppb	0.58	3600	
205	Tl	165	1	0.15	0.15	ppb	2.36	3600	
208	Pb	165	1	12.75	12.75	ppb	0.51	3600	
232	Th	165	1	4.02	4.02	ppb	1.60	1000	
238	U	165	1	1.03	1.03	ppb	1.01	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	451620	0.15	536694	84.1	30 - 120	
45	Sc	1	2305301	0.88	2857458	80.7	30 - 120	
72	Ge	1	1396457	0.93	1703453	82.0	30 - 120	
115	In	1	4209796	0.16	4777220	88.1	30 - 120	
165	Ho	1	8811371	0.31	9746194	90.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\152SMPL.D\152SMPL.D#
Date Acquired: Nov 3 2011 05:13 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 460-32706-a-36-c
Misc Info:
Vial Number: 4204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.46	0.46	ppb	25.60	3600	
51	V	72	1	28.14	28.14	ppb	0.69	3600	
52	Cr	72	1	16.71	16.71	ppb	0.16	3600	
55	Mn	72	1	65.22	65.22	ppb	0.31	18000	
59	Co	72	1	4.41	4.41	ppb	2.00	3600	
60	Ni	72	1	8.10	8.10	ppb	1.48	3600	
63	Cu	72	1	6.91	6.91	ppb	0.23	3600	
66	Zn	72	1	19.15	19.15	ppb	0.29	3600	
75	As	72	1	3.75	3.75	ppb	1.96	3600	
78	Se	72	1	0.89	0.89	ppb	8.52	3600	
95	Mo	72	1	0.68	0.68	ppb	2.28	3600	
107	Ag	115	1	0.04	0.04	ppb	7.89	3600	
111	Cd	115	1	0.07	0.07	ppb	11.60	3600	
118	Sn	115	1	0.59	0.59	ppb	7.44	3600	
121	Sb	115	1	0.17	0.17	ppb	4.18	3600	
137	Ba	115	1	29.75	29.75	ppb	0.57	3600	
205	Tl	165	1	0.08	0.08	ppb	3.67	3600	
208	Pb	165	1	7.40	7.40	ppb	1.03	3600	
232	Th	165	1	3.67	3.67	ppb	1.40	1000	
238	U	165	1	0.93	0.93	ppb	1.34	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	451789	0.80	536694	84.2	30 - 120	
45	Sc	1	2290304	0.99	2857458	80.2	30 - 120	
72	Ge	1	1391161	0.63	1703453	81.7	30 - 120	
115	In	1	4212718	0.89	4777220	88.2	30 - 120	
165	Ho	1	8704393	0.74	9746194	89.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\153SMPL.D\153SMPL.D#
Date Acquired:	Nov 3 2011 05:16 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-37-e
Misc Info:	
Vial Number:	4205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.58	0.58	ppb	10.20	3600	
51	V	72	1	37.77	37.77	ppb	0.09	3600	
52	Cr	72	1	23.92	23.92	ppb	0.04	3600	
55	Mn	72	1	309.70	309.70	ppb	0.61	18000	
59	Co	72	1	8.15	8.15	ppb	0.39	3600	
60	Ni	72	1	12.68	12.68	ppb	1.77	3600	
63	Cu	72	1	10.76	10.76	ppb	0.70	3600	
66	Zn	72	1	46.42	46.42	ppb	0.86	3600	
75	As	72	1	5.93	5.93	ppb	0.93	3600	
78	Se	72	1	1.33	1.33	ppb	8.65	3600	
95	Mo	72	1	1.00	1.00	ppb	0.70	3600	
107	Ag	115	1	0.05	0.05	ppb	4.85	3600	
111	Cd	115	1	0.22	0.22	ppb	5.52	3600	
118	Sn	115	1	1.52	1.52	ppb	1.72	3600	
121	Sb	115	1	1.34	1.34	ppb	1.03	3600	
137	Ba	115	1	72.67	72.67	ppb	0.07	3600	
205	Tl	165	1	0.12	0.12	ppb	2.18	3600	
208	Pb	165	1	46.44	46.44	ppb	0.19	3600	
232	Th	165	1	4.47	4.47	ppb	0.67	1000	
238	U	165	1	1.16	1.16	ppb	0.22	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	448605	0.28	536694	83.6	30 - 120	
45	Sc	1	2283029	0.54	2857458	79.9	30 - 120	
72	Ge	1	1374615	0.30	1703453	80.7	30 - 120	
115	In	1	4154168	0.32	4777220	87.0	30 - 120	
165	Ho	1	8700123	0.50	9746194	89.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\154SMPL.D\154SMPL.D#
Date Acquired:	Nov 3 2011 05:19 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-38-c
Misc Info:	
Vial Number:	4206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.21	0.21	ppb	14.70	3600	
51	V	72	1	11.94	11.94	ppb	0.93	3600	
52	Cr	72	1	13.31	13.31	ppb	1.28	3600	
55	Mn	72	1	28.11	28.11	ppb	1.28	18000	
59	Co	72	1	1.30	1.30	ppb	2.53	3600	
60	Ni	72	1	4.05	4.05	ppb	1.11	3600	
63	Cu	72	1	2.97	2.97	ppb	1.93	3600	
66	Zn	72	1	7.23	7.23	ppb	1.22	3600	
75	As	72	1	1.55	1.55	ppb	1.31	3600	
78	Se	72	1	0.29	0.29	ppb	29.13	3600	
95	Mo	72	1	0.24	0.24	ppb	0.74	3600	
107	Ag	115	1	0.05	0.05	ppb	12.72	3600	
111	Cd	115	1	0.04	0.04	ppb	23.87	3600	
118	Sn	115	1	0.30	0.30	ppb	5.14	3600	
121	Sb	115	1	0.08	0.08	ppb	3.52	3600	
137	Ba	115	1	18.41	18.41	ppb	1.16	3600	
205	Tl	165	1	0.03	0.03	ppb	2.14	3600	
208	Pb	165	1	2.93	2.93	ppb	1.02	3600	
232	Th	165	1	0.93	0.93	ppb	2.27	1000	
238	U	165	1	0.35	0.35	ppb	0.83	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	453408	0.17	536694	84.5	30 - 120	
45	Sc	1	2270160	1.45	2857458	79.4	30 - 120	
72	Ge	1	1388512	0.46	1703453	81.5	30 - 120	
115	In	1	4210835	0.55	4777220	88.1	30 - 120	
165	Ho	1	8697359	0.01	9746194	89.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\155SMPL.D\155SMPL.D#
Date Acquired:	Nov 3 2011 05:22 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-39-c
Misc Info:	
Vial Number:	4207
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.15	1.15	ppb	5.78	3600	
51	V	72	1	87.61	87.61	ppb	1.47	3600	
52	Cr	72	1	69.34	69.34	ppb	1.38	3600	
55	Mn	72	1	566.90	566.90	ppb	0.74	18000	
59	Co	72	1	10.79	10.79	ppb	0.60	3600	
60	Ni	72	1	16.94	16.94	ppb	0.81	3600	
63	Cu	72	1	15.35	15.35	ppb	1.39	3600	
66	Zn	72	1	49.94	49.94	ppb	1.13	3600	
75	As	72	1	8.85	8.85	ppb	0.90	3600	
78	Se	72	1	1.59	1.59	ppb	37.80	3600	
95	Mo	72	1	1.51	1.51	ppb	1.97	3600	
107	Ag	115	1	0.08	0.08	ppb	9.66	3600	
111	Cd	115	1	0.37	0.37	ppb	7.70	3600	
118	Sn	115	1	2.29	2.29	ppb	0.52	3600	
121	Sb	115	1	0.93	0.93	ppb	1.70	3600	
137	Ba	115	1	78.73	78.73	ppb	1.54	3600	
205	Tl	165	1	0.16	0.16	ppb	0.12	3600	
208	Pb	165	1	21.45	21.45	ppb	0.38	3600	
232	Th	165	1	6.71	6.71	ppb	0.77	1000	
238	U	165	1	1.75	1.75	ppb	1.23	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	442619	1.23	536694	82.5	30 - 120	
45	Sc	1	2301457	0.64	2857458	80.5	30 - 120	
72	Ge	1	1364057	0.96	1703453	80.1	30 - 120	
115	In	1	4098838	1.05	4777220	85.8	30 - 120	
165	Ho	1	8565372	0.64	9746194	87.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\156SMPL.D\156SMPL.D#
Date Acquired:	Nov 3 2011 05:25 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	460-32706-a-40-c
Misc Info:	
Vial Number:	4208
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.90	0.90	ppb	19.21	3600	
51	V	72	1	52.79	52.79	ppb	1.41	3600	
52	Cr	72	1	41.65	41.65	ppb	0.82	3600	
55	Mn	72	1	117.70	117.70	ppb	1.21	18000	
59	Co	72	1	4.96	4.96	ppb	1.27	3600	
60	Ni	72	1	12.16	12.16	ppb	2.84	3600	
63	Cu	72	1	13.27	13.27	ppb	0.96	3600	
66	Zn	72	1	19.99	19.99	ppb	0.51	3600	
75	As	72	1	3.12	3.12	ppb	0.92	3600	
78	Se	72	1	1.50	1.50	ppb	13.10	3600	
95	Mo	72	1	0.69	0.69	ppb	6.21	3600	
107	Ag	115	1	0.05	0.05	ppb	1.94	3600	
111	Cd	115	1	0.14	0.14	ppb	23.22	3600	
118	Sn	115	1	1.03	1.03	ppb	5.69	3600	
121	Sb	115	1	0.20	0.20	ppb	4.97	3600	
137	Ba	115	1	88.51	88.51	ppb	2.18	3600	
205	Tl	165	1	0.18	0.18	ppb	1.74	3600	
208	Pb	165	1	14.44	14.44	ppb	0.35	3600	
232	Th	165	1	6.79	6.79	ppb	0.92	1000	
238	U	165	1	1.27	1.27	ppb	0.88	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	451622	0.59	536694	84.1	30 - 120	
45	Sc	1	2359727	0.62	2857458	82.6	30 - 120	
72	Ge	1	1368472	0.85	1703453	80.3	30 - 120	
115	In	1	4146267	0.97	4777220	86.8	30 - 120	
165	Ho	1	8796669	0.52	9746194	90.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\157SMPL.D\157SMPL.D#
Date Acquired: Nov 3 2011 05:28 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 460-32706-a-41-c
Misc Info:
Vial Number: 4209
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.18	1.18	ppb	10.48	3600	
51	V	72	1	72.12	72.12	ppb	0.75	3600	
52	Cr	72	1	41.61	41.61	ppb	0.27	3600	
55	Mn	72	1	240.50	240.50	ppb	0.20	18000	
59	Co	72	1	10.11	10.11	ppb	0.60	3600	
60	Ni	72	1	19.23	19.23	ppb	1.43	3600	
63	Cu	72	1	19.28	19.28	ppb	0.64	3600	
66	Zn	72	1	51.12	51.12	ppb	0.63	3600	
75	As	72	1	10.99	10.99	ppb	1.69	3600	
78	Se	72	1	1.45	1.45	ppb	32.35	3600	
95	Mo	72	1	1.60	1.60	ppb	0.59	3600	
107	Ag	115	1	0.04	0.04	ppb	20.15	3600	
111	Cd	115	1	0.14	0.14	ppb	27.59	3600	
118	Sn	115	1	1.41	1.41	ppb	1.43	3600	
121	Sb	115	1	0.39	0.39	ppb	3.76	3600	
137	Ba	115	1	80.75	80.75	ppb	0.61	3600	
205	Tl	165	1	0.22	0.22	ppb	2.23	3600	
208	Pb	165	1	17.72	17.72	ppb	0.75	3600	
232	Th	165	1	9.66	9.66	ppb	1.72	1000	
238	U	165	1	2.41	2.41	ppb	1.41	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	443404	1.20	536694	82.6	30 - 120	
45	Sc	1	2323360	0.31	2857458	81.3	30 - 120	
72	Ge	1	1372482	0.82	1703453	80.6	30 - 120	
115	In	1	4116120	0.63	4777220	86.2	30 - 120	
165	Ho	1	8497900	0.58	9746194	87.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\158SMPL.D\158SMPL.D#
Date Acquired: Nov 3 2011 05:31 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 460-32706-a-42-c
Misc Info:
Vial Number: 4210
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 02 2011 10:03 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.14	1.14	ppb	17.11	3600	
51	V	72	1	45.62	45.62	ppb	2.99	3600	
52	Cr	72	1	24.15	24.15	ppb	0.23	3600	
55	Mn	72	1	261.50	261.50	ppb	0.74	18000	
59	Co	72	1	10.30	10.30	ppb	1.01	3600	
60	Ni	72	1	20.96	20.96	ppb	0.16	3600	
63	Cu	72	1	15.14	15.14	ppb	1.01	3600	
66	Zn	72	1	31.23	31.23	ppb	0.47	3600	
75	As	72	1	7.22	7.22	ppb	0.90	3600	
78	Se	72	1	1.59	1.59	ppb	17.17	3600	
95	Mo	72	1	0.82	0.82	ppb	4.30	3600	
107	Ag	115	1	0.04	0.04	ppb	7.02	3600	
111	Cd	115	1	0.13	0.13	ppb	1.67	3600	
118	Sn	115	1	0.82	0.82	ppb	3.25	3600	
121	Sb	115	1	0.47	0.47	ppb	4.51	3600	
137	Ba	115	1	77.49	77.49	ppb	1.34	3600	
205	Tl	165	1	0.16	0.16	ppb	0.60	3600	
208	Pb	165	1	16.68	16.68	ppb	0.84	3600	
232	Th	165	1	7.17	7.17	ppb	1.84	1000	
238	U	165	1	1.41	1.41	ppb	1.74	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	445411	0.74	536694	83.0	30 - 120	
45	Sc	1	2278547	1.44	2857458	79.7	30 - 120	
72	Ge	1	1381955	0.35	1703453	81.1	30 - 120	
115	In	1	4124538	0.83	4777220	86.3	30 - 120	
165	Ho	1	8622663	0.81	9746194	88.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\159_CCV.D\159_CCV.D#
Date Acquired:	Nov 3 2011 05:34 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.42	ppb	1.84	50	104.8	90 - 110	
51	V	72	1	47.13	ppb	0.58	50	94.3	90 - 110	
52	Cr	72	1	48.98	ppb	0.80	50	98.0	90 - 110	
55	Mn	72	1	47.78	ppb	0.78	50	95.6	90 - 110	
59	Co	72	1	51.67	ppb	0.41	50	103.3	90 - 110	
60	Ni	72	1	50.44	ppb	1.46	50	100.9	90 - 110	
63	Cu	72	1	48.95	ppb	1.03	50	97.9	90 - 110	
66	Zn	72	1	49.53	ppb	0.56	50	99.1	90 - 110	
75	As	72	1	51.04	ppb	0.83	50	102.1	90 - 110	
78	Se	72	1	53.22	ppb	0.99	50	106.4	90 - 110	
95	Mo	72	1	52.27	ppb	0.32	50	104.5	90 - 110	
107	Ag	115	1	49.99	ppb	1.16	50	100.0	90 - 110	
111	Cd	115	1	49.12	ppb	0.53	50	98.2	90 - 110	
118	Sn	115	1	48.31	ppb	1.65	50	96.6	90 - 110	
121	Sb	115	1	47.76	ppb	0.56	50	95.5	90 - 110	
137	Ba	115	1	51.78	ppb	0.44	50	103.6	90 - 110	
205	Tl	165	1	52.55	ppb	1.83	50	105.1	90 - 110	
208	Pb	165	1	50.78	ppb	0.42	50	101.6	90 - 110	
232	Th	165	1	52.42	ppb	0.14	50	104.8	90 - 110	
238	U	165	1	51.49	ppb	0.78	50	103.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	382308	1.18	536694	71.2	30 - 120	
45	Sc	1	2163874	2.19	2857458	75.7	30 - 120	
72	Ge	1	1377690	0.85	1703453	80.9	30 - 120	
115	In	1	4179529	1.07	4777220	87.5	30 - 120	
165	Ho	1	8400165	0.15	9746194	86.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\160_CCB.D\160_CCB.D#
Date Acquired:	Nov 3 2011 05:37 am
Operator:	LRD
Sample Name:	CCB-1106802
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.020	ppb	140.51	1.00	
51	V	72	1	-0.012	ppb	494.98	1.00	
52	Cr	72	1	0.013	ppb	86.34	1.00	
55	Mn	72	1	0.079	ppb	13.89	1.00	
59	Co	72	1	0.011	ppb	16.02	1.00	
60	Ni	72	1	0.026	ppb	43.62	1.00	
63	Cu	72	1	0.044	ppb	6.52	1.00	
66	Zn	72	1	0.097	ppb	11.55	1.00	
75	As	72	1	0.025	ppb	26.47	1.00	
78	Se	72	1	0.178	ppb	140.45	1.00	
95	Mo	72	1	0.019	ppb	23.76	1.00	
107	Ag	115	1	0.012	ppb	21.45	1.00	
111	Cd	115	1	0.009	ppb	71.97	1.00	
118	Sn	115	1	0.050	ppb	11.80	1.00	
121	Sb	115	1	0.014	ppb	24.53	1.00	
137	Ba	115	1	0.018	ppb	21.30	1.00	
205	Tl	165	1	0.020	ppb	5.67	1.00	
208	Pb	165	1	0.016	ppb	13.85	1.00	
232	Th	165	1	0.029	ppb	9.48	1.00	
238	U	165	1	0.011	ppb	1.65	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	386974	1.08	536694	72.1	30 - 120	
45	Sc	1	2235138	0.39	2857458	78.2	30 - 120	
72	Ge	1	1390580	0.47	1703453	81.6	30 - 120	
115	In	1	4245882	0.52	4777220	88.9	30 - 120	
165	Ho	1	8438595	1.90	9746194	86.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\161WASH.D\161WASH.D#
Date Acquired: Nov 3 2011 05:40 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.024 ppb	135.79	1.30	
51	V	72	1	0.176 ppb	33.95	6.50	
52	Cr	72	1	1.273 ppb	3.55	2.60	
55	Mn	72	1	0.628 ppb	3.56	1.30	
59	Co	72	1	0.072 ppb	7.66	1.30	
60	Ni	72	1	1.170 ppb	2.83	2.60	
63	Cu	72	1	0.440 ppb	2.29	2.60	
66	Zn	72	1	7.539 ppb	1.63	13.00	
75	As	72	1	0.618 ppb	4.85	6.50	
78	Se	72	1	0.300 ppb	20.78	6.50	
95	Mo	72	1	2362.000 ppb	0.52	2.60	
107	Ag	115	1	0.061 ppb	7.09	6.50	
111	Cd	115	1	0.483 ppb	11.68	1.30	
118	Sn	115	1	0.247 ppb	12.04	13.00	
121	Sb	115	1	0.284 ppb	1.22	2.60	
137	Ba	115	1	0.241 ppb	3.97	1.30	
205	Tl	165	1	0.033 ppb	13.73	1.30	
208	Pb	165	1	0.158 ppb	3.42	1.30	
232	Th	165	1	0.043 ppb	7.78	2.60	
238	U	165	1	0.022 ppb	9.42	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	332527	1.15	536694	62.0	30 - 120	
45	Sc	1	1836637	0.71	2857458	64.3	30 - 120	
72	Ge	1	1125194	1.10	1703453	66.1	30 - 120	
115	In	1	3516821	0.66	4777220	73.6	30 - 120	
165	Ho	1	7246020	0.56	9746194	74.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\162WASH.D\162WASH.D#
Date Acquired: Nov 3 2011 05:43 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.002	ppb	615.70	1.30	
51	V	72	1	-0.005	ppb	986.93	6.50	
52	Cr	72	1	0.000	ppb	5031.80	2.60	
55	Mn	72	1	0.071	ppb	21.41	1.30	
59	Co	72	1	0.003	ppb	0.22	1.30	
60	Ni	72	1	-0.004	ppb	216.53	2.60	
63	Cu	72	1	0.012	ppb	33.23	2.60	
66	Zn	72	1	0.063	ppb	12.68	13.00	
75	As	72	1	0.011	ppb	31.40	6.50	
78	Se	72	1	0.393	ppb	31.64	6.50	
95	Mo	72	1	0.387	ppb	2.83	2.60	
107	Ag	115	1	0.001	ppb	53.86	6.50	
111	Cd	115	1	0.006	ppb	42.87	1.30	
118	Sn	115	1	0.017	ppb	28.51	13.00	
121	Sb	115	1	0.004	ppb	34.76	2.60	
137	Ba	115	1	0.007	ppb	36.49	1.30	
205	Tl	165	1	0.007	ppb	19.19	1.30	
208	Pb	165	1	0.004	ppb	27.07	1.30	
232	Th	165	1	0.007	ppb	8.35	2.60	
238	U	165	1	0.002	ppb	13.15	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	380347	1.73	536694	70.9	30 - 120	
45	Sc	1	2179047	1.65	2857458	76.3	30 - 120	
72	Ge	1	1366288	0.12	1703453	80.2	30 - 120	
115	In	1	4197365	1.78	4777220	87.9	30 - 120	
165	Ho	1	8296041	0.71	9746194	85.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\163WASH.D\163WASH.D#
Date Acquired: Nov 3 2011 05:46 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.008 ppb	268.62	1.30	
51	V	72	1	0.007 ppb	187.60	6.50	
52	Cr	72	1	-0.005 ppb	284.25	2.60	
55	Mn	72	1	0.063 ppb	15.06	1.30	
59	Co	72	1	0.001 ppb	148.36	1.30	
60	Ni	72	1	0.011 ppb	51.63	2.60	
63	Cu	72	1	0.004 ppb	180.24	2.60	
66	Zn	72	1	0.044 ppb	13.76	13.00	
75	As	72	1	0.010 ppb	60.47	6.50	
78	Se	72	1	0.248 ppb	46.67	6.50	
95	Mo	72	1	0.105 ppb	4.78	2.60	
107	Ag	115	1	0.002 ppb	59.00	6.50	
111	Cd	115	1	0.005 ppb	61.65	1.30	
118	Sn	115	1	0.018 ppb	12.47	13.00	
121	Sb	115	1	0.002 ppb	41.78	2.60	
137	Ba	115	1	0.010 ppb	36.16	1.30	
205	Tl	165	1	0.006 ppb	6.55	1.30	
208	Pb	165	1	0.003 ppb	34.15	1.30	
232	Th	165	1	0.004 ppb	45.90	2.60	
238	U	165	1	0.002 ppb	11.60	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	387300	1.55	536694	72.2	30 - 120	
45	Sc	1	2262559	1.08	2857458	79.2	30 - 120	
72	Ge	1	1413188	1.49	1703453	83.0	30 - 120	
115	In	1	4332526	1.21	4777220	90.7	30 - 120	
165	Ho	1	8512822	0.49	9746194	87.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\164WASH.D\164WASH.D#
Date Acquired: Nov 3 2011 05:49 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.007	ppb	136.74	1.30	
51	V	72	1	-0.011	ppb	356.97	6.50	
52	Cr	72	1	-0.004	ppb	120.25	2.60	
55	Mn	72	1	0.076	ppb	10.21	1.30	
59	Co	72	1	0.003	ppb	62.22	1.30	
60	Ni	72	1	0.001	ppb	285.01	2.60	
63	Cu	72	1	0.011	ppb	38.80	2.60	
66	Zn	72	1	0.050	ppb	8.49	13.00	
75	As	72	1	0.008	ppb	80.90	6.50	
78	Se	72	1	0.308	ppb	82.51	6.50	
95	Mo	72	1	0.053	ppb	18.38	2.60	
107	Ag	115	1	0.002	ppb	30.61	6.50	
111	Cd	115	1	0.005	ppb	40.39	1.30	
118	Sn	115	1	0.012	ppb	32.54	13.00	
121	Sb	115	1	0.002	ppb	18.45	2.60	
137	Ba	115	1	0.007	ppb	42.20	1.30	
205	Tl	165	1	0.006	ppb	19.51	1.30	
208	Pb	165	1	0.004	ppb	36.02	1.30	
232	Th	165	1	0.003	ppb	24.19	2.60	
238	U	165	1	0.002	ppb	7.24	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	392037	0.48	536694	73.0	30 - 120	
45	Sc	1	2264986	0.77	2857458	79.3	30 - 120	
72	Ge	1	1418750	0.54	1703453	83.3	30 - 120	
115	In	1	4355812	0.22	4777220	91.2	30 - 120	
165	Ho	1	8603837	0.43	9746194	88.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\165WASH.D\165WASH.D#
Date Acquired: Nov 3 2011 05:51 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.004	ppb	0.00	1.30	
51	V	72	1	0.019	ppb	91.03	6.50	
52	Cr	72	1	0.006	ppb	84.98	2.60	
55	Mn	72	1	0.054	ppb	18.53	1.30	
59	Co	72	1	0.002	ppb	33.47	1.30	
60	Ni	72	1	0.006	ppb	28.51	2.60	
63	Cu	72	1	0.009	ppb	14.04	2.60	
66	Zn	72	1	0.049	ppb	42.11	13.00	
75	As	72	1	0.004	ppb	133.98	6.50	
78	Se	72	1	0.293	ppb	43.54	6.50	
95	Mo	72	1	0.039	ppb	33.87	2.60	
107	Ag	115	1	0.002	ppb	10.59	6.50	
111	Cd	115	1	0.005	ppb	67.01	1.30	
118	Sn	115	1	0.015	ppb	23.60	13.00	
121	Sb	115	1	0.002	ppb	32.18	2.60	
137	Ba	115	1	0.009	ppb	27.71	1.30	
205	Tl	165	1	0.005	ppb	8.23	1.30	
208	Pb	165	1	0.003	ppb	44.19	1.30	
232	Th	165	1	0.002	ppb	18.20	2.60	
238	U	165	1	0.002	ppb	12.67	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	396347	0.35	536694	73.8	30 - 120	
45	Sc	1	2284036	1.51	2857458	79.9	30 - 120	
72	Ge	1	1445270	1.04	1703453	84.8	30 - 120	
115	In	1	4359623	1.39	4777220	91.3	30 - 120	
165	Ho	1	8601853	1.77	9746194	88.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\166WASH.D\166WASH.D#
Date Acquired: Nov 3 2011 05:54 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 02 2011 10:03 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.004	ppb	0.00	1.30	
51	V	72	1	-0.012	ppb	89.27	6.50	
52	Cr	72	1	-0.006	ppb	78.96	2.60	
55	Mn	72	1	0.058	ppb	14.99	1.30	
59	Co	72	1	0.002	ppb	95.42	1.30	
60	Ni	72	1	0.013	ppb	49.97	2.60	
63	Cu	72	1	0.010	ppb	72.14	2.60	
66	Zn	72	1	0.053	ppb	8.52	13.00	
75	As	72	1	0.001	ppb	996.03	6.50	
78	Se	72	1	0.225	ppb	102.66	6.50	
95	Mo	72	1	0.028	ppb	17.56	2.60	
107	Ag	115	1	0.002	ppb	37.64	6.50	
111	Cd	115	1	0.004	ppb	58.85	1.30	
118	Sn	115	1	0.013	ppb	34.73	13.00	
121	Sb	115	1	0.001	ppb	17.91	2.60	
137	Ba	115	1	0.008	ppb	18.34	1.30	
205	Tl	165	1	0.004	ppb	11.78	1.30	
208	Pb	165	1	0.003	ppb	19.99	1.30	
232	Th	165	1	0.003	ppb	16.49	2.60	
238	U	165	1	0.002	ppb	3.74	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	398909	0.54	536694	74.3	30 - 120	
45	Sc	1	2324305	1.30	2857458	81.3	30 - 120	
72	Ge	1	1449794	0.24	1703453	85.1	30 - 120	
115	In	1	4380148	0.94	4777220	91.7	30 - 120	
165	Ho	1	8558424	0.26	9746194	87.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\167WASH.D\167WASH.D#
Date Acquired:	Nov 3 2011 05:57 am
Operator:	LRD
Sample Name:	RINSE
Misc Info:	
Vial Number:	3
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 02 2011 10:03 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.007	ppb	275.04	1.30	
51	V	72	1	-0.014	ppb	151.31	6.50	
52	Cr	72	1	0.008	ppb	78.47	2.60	
55	Mn	72	1	0.067	ppb	9.47	1.30	
59	Co	72	1	0.003	ppb	13.17	1.30	
60	Ni	72	1	0.004	ppb	44.70	2.60	
63	Cu	72	1	0.013	ppb	47.63	2.60	
66	Zn	72	1	0.047	ppb	8.97	13.00	
75	As	72	1	0.000	ppb	1018.30	6.50	
78	Se	72	1	0.456	ppb	97.50	6.50	
95	Mo	72	1	0.022	ppb	27.41	2.60	
107	Ag	115	1	0.001	ppb	38.93	6.50	
111	Cd	115	1	0.005	ppb	28.00	1.30	
118	Sn	115	1	0.015	ppb	55.48	13.00	
121	Sb	115	1	0.000	ppb	133.80	2.60	
137	Ba	115	1	0.004	ppb	101.52	1.30	
205	Tl	165	1	0.005	ppb	29.88	1.30	
208	Pb	165	1	0.002	ppb	20.46	1.30	
232	Th	165	1	0.002	ppb	30.08	2.60	
238	U	165	1	0.002	ppb	4.34	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	399020	0.36	536694	74.3	30 - 120	
45	Sc	1	2289013	0.89	2857458	80.1	30 - 120	
72	Ge	1	1431995	0.70	1703453	84.1	30 - 120	
115	In	1	4305315	0.76	4777220	90.1	30 - 120	
165	Ho	1	8604545	0.67	9746194	88.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\168CALB.D\168CALB.D#
Date Acquired:	Nov 3 2011 06:00 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	Cal Blank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 02 2011 10:03 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	3	173.20
51	V	72	1	282	17.02
52	Cr	72	1	6008	0.63
55	Mn	72	1	1897	7.33
59	Co	72	1	237	20.18
60	Ni	72	1	730	8.57
63	Cu	72	1	1157	9.16
66	Zn	72	1	451	8.20
75	As	72	1	104	15.98
78	Se	72	1	487	11.40
95	Mo	72	1	233	30.62
107	Ag	115	1	173	24.39
111	Cd	115	1	49	26.51
118	Sn	115	1	837	1.36
121	Sb	115	1	87	21.17
137	Ba	115	1	98	19.91
205	Tl	165	1	490	6.83
208	Pb	165	1	1077	1.60
232	Th	165	1	817	20.30
238	U	165	1	472	14.12

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	403129	0.07
45	Sc	1	2299881	0.87
72	Ge	1	1423511	1.28
115	In	1	4360883	1.03
165	Ho	1	8550572	0.28

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#
Date Acquired:	Nov 3 2011 06:03 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1106802
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:01 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	7	86.60
51	V	72	1	-38	1187.10
52	Cr	72	1	5721	1.37
55	Mn	72	1	1623	5.49
59	Co	72	1	123	17.77
60	Ni	72	1	263	10.23
63	Cu	72	1	830	3.46
66	Zn	72	1	322	6.80
75	As	72	1	114	7.12
78	Se	72	1	473	20.38
95	Mo	72	1	130	15.07
107	Ag	115	1	53	47.04
111	Cd	115	1	33	61.55
118	Sn	115	1	210	9.53
121	Sb	115	1	47	31.36
137	Ba	115	1	64	15.44
205	Tl	165	1	288	4.83
208	Pb	165	1	761	3.68
232	Th	165	1	457	13.91
238	U	165	1	188	12.83

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	401124	0.55
45	Sc	1	2286542	0.40
72	Ge	1	1432607	0.98
115	In	1	4334638	0.42
165	Ho	1	8531815	0.89

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\170ICAL.D\170ICAL.D#
Date Acquired:	Nov 3 2011 06:06 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1106803
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:04 am
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	61052	0.78
51	V	72	1	1914719	1.44
52	Cr	72	1	2068246	0.38
55	Mn	72	1	1837650	0.25
59	Co	72	1	2920854	1.01
60	Ni	72	1	687146	0.54
63	Cu	72	1	1736512	1.39
66	Zn	72	1	292685	0.74
75	As	72	1	212029	0.40
78	Se	72	1	32524	2.01
95	Mo	72	1	831760	0.72
107	Ag	115	1	2642863	1.28
111	Cd	115	1	436497	1.37
118	Sn	115	1	1162365	0.80
121	Sb	115	1	1282807	1.65
137	Ba	115	1	525690	1.26
205	Tl	165	1	4834287	1.21
208	Pb	165	1	6649701	0.57
232	Th	165	1	6589759	1.11
238	U	165	1	7074810	0.73

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	399535	0.99	401124	99.6	30 - 120	
45	Sc	1	2273534	1.16	2286542	99.4	30 - 120	
72	Ge	1	1418335	0.21	1432607	99.0	30 - 120	
115	In	1	4316250	1.00	4334638	99.6	30 - 120	
165	Ho	1	8526516	0.68	8531815	99.9	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\171_CCV.D\171_CCV.D#
Date Acquired:	Nov 3 2011 06:09 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 03 2011 06:07 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.81	ppb	2.34	50	99.6	90 - 110	
51	V	72	1	48.63	ppb	0.97	50	97.3	90 - 110	
52	Cr	72	1	49.63	ppb	1.63	50	99.3	90 - 110	
55	Mn	72	1	47.76	ppb	0.95	50	95.5	90 - 110	
59	Co	72	1	50.16	ppb	1.36	50	100.3	90 - 110	
60	Ni	72	1	49.70	ppb	0.65	50	99.4	90 - 110	
63	Cu	72	1	48.29	ppb	0.54	50	96.6	90 - 110	
66	Zn	72	1	49.14	ppb	0.61	50	98.3	90 - 110	
75	As	72	1	49.30	ppb	0.71	50	98.6	90 - 110	
78	Se	72	1	49.12	ppb	1.61	50	98.2	90 - 110	
95	Mo	72	1	49.85	ppb	0.76	50	99.7	90 - 110	
107	Ag	115	1	50.39	ppb	0.96	50	100.8	90 - 110	
111	Cd	115	1	49.30	ppb	1.21	50	98.6	90 - 110	
118	Sn	115	1	48.12	ppb	0.48	50	96.2	90 - 110	
121	Sb	115	1	47.52	ppb	1.07	50	95.0	90 - 110	
137	Ba	115	1	50.12	ppb	1.58	50	100.2	90 - 110	
205	Tl	165	1	51.17	ppb	0.46	50	102.3	90 - 110	
208	Pb	165	1	50.27	ppb	1.21	50	100.5	90 - 110	
232	Th	165	1	51.09	ppb	2.42	50	102.2	90 - 110	
238	U	165	1	51.46	ppb	2.36	50	102.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	395591	0.90	401124	98.6	30 - 120	
45	Sc	1	2245528	1.00	2286542	98.2	30 - 120	
72	Ge	1	1397470	1.23	1432607	97.5	30 - 120	
115	In	1	4263819	1.23	4334638	98.4	30 - 120	
165	Ho	1	8469629	0.68	8531815	99.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\172_CCB.D\172_CCB.D#
Date Acquired: Nov 3 2011 06:12 am
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 03 2011 06:07 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.005	ppb	305.83	1.00	
51	V	72	1	0.024	ppb	11.33	1.00	
52	Cr	72	1	0.013	ppb	137.30	1.00	
55	Mn	72	1	-0.008	ppb	57.46	1.00	
59	Co	72	1	0.003	ppb	63.19	1.00	
60	Ni	72	1	-0.001	ppb	362.04	1.00	
63	Cu	72	1	-0.005	ppb	177.93	1.00	
66	Zn	72	1	-0.014	ppb	93.85	1.00	
75	As	72	1	0.006	ppb	83.31	1.00	
78	Se	72	1	-0.141	ppb	100.21	1.00	
95	Mo	72	1	0.016	ppb	23.60	1.00	
107	Ag	115	1	0.009	ppb	42.36	1.00	
111	Cd	115	1	0.008	ppb	63.01	1.00	
118	Sn	115	1	0.045	ppb	21.17	1.00	
121	Sb	115	1	0.018	ppb	13.90	1.00	
137	Ba	115	1	0.002	ppb	104.41	1.00	
205	Tl	165	1	0.017	ppb	6.50	1.00	
208	Pb	165	1	0.005	ppb	20.93	1.00	
232	Th	165	1	0.044	ppb	4.52	1.00	
238	U	165	1	0.010	ppb	12.00	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	404501	0.18	401124	100.8	30 - 120	
45	Sc	1	2235438	0.71	2286542	97.8	30 - 120	
72	Ge	1	1386373	1.46	1432607	96.8	30 - 120	
115	In	1	4227431	1.11	4334638	97.5	30 - 120	
165	Ho	1	8500391	0.72	8531815	99.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\173_BLK.D\173_BLK.D#
Date Acquired: Nov 3 2011 06:15 am
Operator: LRD
Sample Name: mb 280-93433/1-a
Misc Info: BLANK 93433 6020
Vial Number: 4211
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 03 2011 06:07 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.005	ppb	307.80	2.00	
51	V	72	1	0.028	ppb	85.83	2.00	
52	Cr	72	1	-0.014	ppb	106.81	2.00	
55	Mn	72	1	0.090	ppb	9.69	2.00	
59	Co	72	1	0.004	ppb	33.38	2.00	
60	Ni	72	1	0.003	ppb	285.27	2.00	
63	Cu	72	1	0.048	ppb	9.17	2.00	
66	Zn	72	1	0.932	ppb	1.82	2.00	
75	As	72	1	-0.004	ppb	18.46	2.00	
78	Se	72	1	-0.145	ppb	121.65	2.00	
95	Mo	72	1	0.010	ppb	62.98	2.00	
107	Ag	115	1	0.005	ppb	17.64	2.00	
111	Cd	115	1	-0.001	ppb	168.48	2.00	
118	Sn	115	1	0.048	ppb	15.73	2.00	
121	Sb	115	1	0.009	ppb	20.96	2.00	
137	Ba	115	1	0.110	ppb	18.15	2.00	
205	Tl	165	1	0.008	ppb	10.33	2.00	
208	Pb	165	1	0.015	ppb	11.12	2.00	
232	Th	165	1	0.013	ppb	15.18	2.00	
238	U	165	1	0.004	ppb	13.16	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	405196	1.29	401124	101.0	30 - 120	
45	Sc	1	2255527	0.89	2286542	98.6	30 - 120	
72	Ge	1	1409953	1.57	1432607	98.4	30 - 120	
115	In	1	4271885	1.01	4334638	98.6	30 - 120	
165	Ho	1	8521051	0.98	8531815	99.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\174_LCS.D\174_LCS.D#
Date Acquired: Nov 3 2011 06:18 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-93433/2-a
Misc Info: LCS
Vial Number: 4212
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 06:07 am
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	41.53	1.54	40	103.8	80 - 120	
51	V	72	1	39.55	1.13	40	98.9	80 - 120	
52	Cr	72	1	39.59	0.48	40	99.0	80 - 120	
55	Mn	72	1	39.81	0.03	40	99.5	80 - 120	
59	Co	72	1	41.68	0.85	40	104.2	80 - 120	
60	Ni	72	1	40.84	0.26	40	102.1	80 - 120	
63	Cu	72	1	40.43	0.47	40	101.1	80 - 120	
66	Zn	72	1	41.70	0.61	40	104.3	80 - 120	
75	As	72	1	41.33	0.63	40	103.3	80 - 120	
78	Se	72	1	42.06	3.96	40	105.2	80 - 120	
95	Mo	72	1	40.68	1.51	40	101.7	80 - 120	
107	Ag	115	1	42.48	0.70	40	106.2	80 - 120	
111	Cd	115	1	41.19	0.82	40	103.0	80 - 120	
118	Sn	115	1	39.91	1.07	40	99.8	80 - 120	
121	Sb	115	1	39.18	0.47	40	98.0	80 - 120	
137	Ba	115	1	41.09	0.95	40	102.7	80 - 120	
205	Tl	165	1	42.46	1.47	40	106.2	80 - 120	
208	Pb	165	1	41.58	1.82	40	104.0	80 - 120	
232	Th	165	1	43.10	0.51	40	107.8	80 - 120	
238	U	165	1	43.54	0.55	40	108.9	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	407488	0.26	401124	101.6	30 - 120	
45	Sc	1	2256551	0.42	2286542	98.7	30 - 120	
72	Ge	1	1393678	0.30	1432607	97.3	30 - 120	
115	In	1	4245095	0.95	4334638	97.9	30 - 120	
165	Ho	1	8421638	1.13	8531815	98.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\175AREF.D\175AREF.D#
Date Acquired: Nov 3 2011 06:20 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22025-c-1-b
Misc Info:
Vial Number: 4301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 06:07 am
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.37	0.37	ppb	32.02	3600	
51	V	72	1	5.83	5.83	ppb	1.62	3600	
52	Cr	72	1	2.72	2.72	ppb	1.81	3600	
55	Mn	72	1	5.76	5.76	ppb	2.28	18000	
59	Co	72	1	0.31	0.31	ppb	0.63	3600	
60	Ni	72	1	0.48	0.48	ppb	5.39	3600	
63	Cu	72	1	1.00	1.00	ppb	3.26	3600	
66	Zn	72	1	1.70	1.70	ppb	0.55	3600	
75	As	72	1	1.15	1.15	ppb	3.66	3600	
78	Se	72	1	0.99	0.99	ppb	2.26	3600	
95	Mo	72	1	0.09	0.09	ppb	7.43	3600	
107	Ag	115	1	0.01	0.01	ppb	37.50	3600	
111	Cd	115	1	0.05	0.05	ppb	27.35	3600	
118	Sn	115	1	0.10	0.10	ppb	8.54	3600	
121	Sb	115	1	0.08	0.08	ppb	6.22	3600	
137	Ba	115	1	48.80	48.80	ppb	1.11	3600	
205	Tl	165	1	0.04	0.04	ppb	7.19	3600	
208	Pb	165	1	0.20	0.20	ppb	0.92	3600	
232	Th	165	1	0.26	0.26	ppb	1.73	1000	
238	U	165	1	0.89	0.89	ppb	0.89	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	383777	0.65	401124	95.7	30 - 120	
45	Sc	1	2111436	0.49	2286542	92.3	30 - 120	
72	Ge	1	1295395	1.26	1432607	90.4	30 - 120	
115	In	1	3958003	0.60	4334638	91.3	30 - 120	
165	Ho	1	8140451	0.98	8531815	95.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\176SDIL.D\176SDIL.D#
Date Acquired: Nov 3 2011 06:23 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22025-c-1-b SD@5
Misc Info: SERIAL DILUTION
Vial Number: 4302
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 06:07 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110211.B\175AREF.D\175AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.02	ppb	130.33	0.07	28.9	90 - 110	
51	V	72	1	1.15	ppb	0.84	1.17	98.8	90 - 110	
52	Cr	72	1	0.53	ppb	4.68	0.54	98.0	90 - 110	
55	Mn	72	1	1.14	ppb	6.13	1.15	98.8	90 - 110	
59	Co	72	1	0.06	ppb	3.82	0.06	102.0	90 - 110	
60	Ni	72	1	0.11	ppb	10.65	0.10	113.4	90 - 110	
63	Cu	72	1	0.19	ppb	8.16	0.20	97.0	90 - 110	
66	Zn	72	1	0.90	ppb	1.42	0.34	263.6	90 - 110	
75	As	72	1	0.22	ppb	10.33	0.23	93.7	90 - 110	
78	Se	72	1	-0.34	ppb	41.40	0.20	-173.5	90 - 110	
95	Mo	72	1	0.02	ppb	42.63	0.02	92.8	90 - 110	
107	Ag	115	1	0.00	ppb	23.36	0.00	116.8	90 - 110	
111	Cd	115	1	0.01	ppb	25.48	0.01	113.8	90 - 110	
118	Sn	115	1	0.05	ppb	1.87	0.02	238.6	90 - 110	
121	Sb	115	1	0.02	ppb	10.10	0.02	112.3	90 - 110	
137	Ba	115	1	9.53	ppb	1.21	9.76	97.6	90 - 110	
205	Tl	165	1	0.01	ppb	10.71	0.01	86.7	90 - 110	
208	Pb	165	1	0.04	ppb	4.86	0.04	99.5	90 - 110	
232	Th	165	1	0.05	ppb	7.94	0.05	102.9	90 - 110	
238	U	165	1	0.18	ppb	1.12	0.18	100.1	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	404693	0.43	401124	100.9	30 - 120	
45	Sc	1	2177268	0.90	2286542	95.2	30 - 120	
72	Ge	1	1357932	0.55	1432607	94.8	30 - 120	
115	In	1	4147865	1.05	4334638	95.7	30 - 120	
165	Ho	1	8379355	0.81	8531815	98.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\177PDS.D\177PDS.D#		
Date Acquired:	Nov 3 2011 06:26 am	**QC Summary:**	
Acq. Method:	NormISIS.M	**Analytes:**	**Pass**
Operator:	LRD	**ISTD:**	**Pass**
Sample Name:	280-22025-c-1-b PDS		
Misc Info:	POST DIGESTION SPIKE		
Vial Number:	4303		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 03 2011 06:07 am		
Sample Type:	PDS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	202.40	0.37	ppb	2.36	200	101.0	75 - 125	
51	V	72	1	209.30	5.83	ppb	1.90	200	101.7	75 - 125	
52	Cr	72	1	201.90	2.72	ppb	2.12	200	99.6	75 - 125	
55	Mn	72	1	206.50	5.76	ppb	1.05	200	100.4	75 - 125	
59	Co	72	1	196.10	0.31	ppb	1.57	200	97.9	75 - 125	
60	Ni	72	1	209.50	0.48	ppb	2.26	200	104.5	75 - 125	
63	Cu	72	1	197.30	1.00	ppb	2.35	200	98.2	75 - 125	
66	Zn	72	1	198.90	1.70	ppb	1.29	200	98.6	75 - 125	
75	As	72	1	210.30	1.15	ppb	1.37	200	104.5	75 - 125	
78	Se	72	1	211.70	0.99	ppb	1.35	200	105.3	75 - 125	
95	Mo	72	1	217.10	0.09	ppb	1.72	200	108.5	75 - 125	
107	Ag	115	1	48.83	0.01	ppb	0.73	50	97.6	75 - 125	
111	Cd	115	1	201.10	0.05	ppb	0.79	200	100.5	75 - 125	
118	Sn	115	1	203.30	0.10	ppb	1.18	200	101.6	75 - 125	
121	Sb	115	1	201.60	0.08	ppb	0.59	200	100.8	75 - 125	
137	Ba	115	1	264.00	48.80	ppb	1.70	200	106.1	75 - 125	
205	Tl	165	1	195.10	0.04	ppb	0.65	200	97.5	75 - 125	
208	Pb	165	1	192.50	0.20	ppb	0.61	200	96.2	75 - 125	
232	Th	165	1	0.29	0.26	ppb	3.06	200	0.1	75 - 125	
238	U	165	1	205.40	0.89	ppb	0.50	200	102.2	75 - 125	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	395305	1.09	401124	98.5	30 - 120	
45	Sc	1	2142712	0.55	2286542	93.7	30 - 120	
72	Ge	1	1296128	0.68	1432607	90.5	30 - 120	
115	In	1	4016498	0.47	4334638	92.7	30 - 120	
165	Ho	1	8313503	0.67	8531815	97.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\178_MS.D\178_MS.D#
Date Acquired:	Nov 3 2011 06:29 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22025-c-1-c ms
Misc Info:	MATRIX SPIKE
Vial Number:	4304
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:07 am
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	40.59	0.37	ppb	3.48	40	100.5	50 - 150	
51	V	72	1	46.31	5.83	ppb	0.83	40	101.1	50 - 150	
52	Cr	72	1	42.27	2.72	ppb	1.34	40	98.9	50 - 150	
55	Mn	72	1	45.32	5.76	ppb	1.73	40	99.0	50 - 150	
59	Co	72	1	41.67	0.31	ppb	1.51	40	103.4	50 - 150	
60	Ni	72	1	40.09	0.48	ppb	0.87	40	99.0	50 - 150	
63	Cu	72	1	39.57	1.00	ppb	0.86	40	96.5	50 - 150	
66	Zn	72	1	41.45	1.70	ppb	1.56	40	99.4	50 - 150	
75	As	72	1	43.03	1.15	ppb	1.25	40	104.6	50 - 150	
78	Se	72	1	16.90	0.99	ppb	3.07	40	41.2	50 - 150	
95	Mo	72	1	42.66	0.09	ppb	0.47	40	106.4	50 - 150	
107	Ag	115	1	38.80	0.01	ppb	1.27	40	97.0	50 - 150	
111	Cd	115	1	41.30	0.05	ppb	1.34	40	103.1	50 - 150	
118	Sn	115	1	40.27	0.10	ppb	0.53	40	100.4	50 - 150	
121	Sb	115	1	39.73	0.08	ppb	0.30	40	99.1	50 - 150	
137	Ba	115	1	92.37	48.80	ppb	1.10	40	104.0	50 - 150	
205	Tl	165	1	40.98	0.04	ppb	0.99	40	102.3	50 - 150	
208	Pb	165	1	39.44	0.20	ppb	0.69	40	98.1	50 - 150	
232	Th	165	1	42.59	0.26	ppb	2.06	40	105.8	50 - 150	
238	U	165	1	43.99	0.89	ppb	0.44	40	107.6	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	405505	0.13	401124	101.1	30 - 120	
45	Sc	1	2189659	0.85	2286542	95.8	30 - 120	
72	Ge	1	1335728	0.89	1432607	93.2	30 - 120	
115	In	1	4035674	1.24	4334638	93.1	30 - 120	
165	Ho	1	8404039	0.14	8531815	98.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\179_MSD.D\179_MSD.D#		
Date Acquired:	Nov 3 2011 06:32 am	**QC Summary:**	
Acq. Method:	NormISIS.M	**Analytes:**	**Pass**
Operator:	LRD	**ISTD:**	**Pass**
Sample Name:	280-22025-c-1-d msd		
Misc Info:	MATRIX SPIKE DUPLICATE		
Vial Number:	4305		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 03 2011 06:07 am		
Sample Type:	MSD		
Dilution Factor:	1.00		

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110211.B\178_MS.D\178_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	40.29	ppb	3.20	40.59	0.74	20	
51	V	72	1	45.28	ppb	0.96	46.31	2.25	20	
52	Cr	72	1	41.48	ppb	0.64	42.27	1.89	20	
55	Mn	72	1	44.58	ppb	0.64	45.32	1.65	20	
59	Co	72	1	41.07	ppb	1.67	41.67	1.45	20	
60	Ni	72	1	39.86	ppb	0.46	40.09	0.58	20	
63	Cu	72	1	39.09	ppb	0.64	39.57	1.22	20	
66	Zn	72	1	41.86	ppb	1.16	41.45	0.98	20	
75	As	72	1	42.39	ppb	1.02	43.03	1.50	20	
78	Se	72	1	15.18	ppb	6.36	16.90	10.72	20	
95	Mo	72	1	41.73	ppb	0.36	42.66	2.20	20	
107	Ag	115	1	37.98	ppb	1.61	38.80	2.14	20	
111	Cd	115	1	40.05	ppb	1.32	41.30	3.07	20	
118	Sn	115	1	39.06	ppb	2.16	40.27	3.05	20	
121	Sb	115	1	38.73	ppb	1.10	39.73	2.55	20	
137	Ba	115	1	89.57	ppb	1.32	92.37	3.08	20	
205	Tl	165	1	40.38	ppb	0.45	40.98	1.47	20	
208	Pb	165	1	38.94	ppb	0.90	39.44	1.28	20	
232	Th	165	1	42.21	ppb	0.21	42.59	0.90	20	
238	U	165	1	43.45	ppb	0.59	43.99	1.24	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	404624	0.32	401124	100.9	30 - 120	
45	Sc	1	2199464	1.28	2286542	96.2	30 - 120	
72	Ge	1	1337125	1.11	1432607	93.3	30 - 120	
115	In	1	4062283	1.11	4334638	93.7	30 - 120	
165	Ho	1	8392564	0.75	8531815	98.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\180SMPL.D\180SMPL.D#
Date Acquired:	Nov 3 2011 06:35 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22025-c-2-b
Misc Info:	
Vial Number:	4306
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:07 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	108.67	3600	
51	V	72	1	1.84	1.84	ppb	1.74	3600	
52	Cr	72	1	1.28	1.28	ppb	1.23	3600	
55	Mn	72	1	40.97	40.97	ppb	1.07	18000	
59	Co	72	1	4.08	4.08	ppb	0.97	3600	
60	Ni	72	1	2.97	2.97	ppb	2.11	3600	
63	Cu	72	1	2.34	2.34	ppb	3.02	3600	
66	Zn	72	1	9.90	9.90	ppb	0.67	3600	
75	As	72	1	1.16	1.16	ppb	4.48	3600	
78	Se	72	1	-0.08	-0.08	ppb	258.40	3600	
95	Mo	72	1	0.05	0.05	ppb	25.15	3600	
107	Ag	115	1	0.01	0.01	ppb	13.41	3600	
111	Cd	115	1	0.05	0.05	ppb	38.11	3600	
118	Sn	115	1	0.10	0.10	ppb	9.35	3600	
121	Sb	115	1	0.10	0.10	ppb	0.95	3600	
137	Ba	115	1	74.58	74.58	ppb	1.04	3600	
205	Tl	165	1	0.15	0.15	ppb	1.09	3600	
208	Pb	165	1	0.08	0.08	ppb	3.28	3600	
232	Th	165	1	0.14	0.14	ppb	5.58	1000	
238	U	165	1	0.15	0.15	ppb	1.44	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	407122	0.49	401124	101.5	30 - 120	
45	Sc	1	2194805	1.00	2286542	96.0	30 - 120	
72	Ge	1	1344904	0.50	1432607	93.9	30 - 120	
115	In	1	4009345	0.98	4334638	92.5	30 - 120	
165	Ho	1	8418373	0.32	8531815	98.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\181SMPL.D\181SMPL.D#
Date Acquired:	Nov 3 2011 06:38 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22025-c-3-b
Misc Info:	
Vial Number:	4307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:07 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.05	0.05	ppb	108.32	3600	
51	V	72	1	2.28	2.28	ppb	1.17	3600	
52	Cr	72	1	1.59	1.59	ppb	1.50	3600	
55	Mn	72	1	28.30	28.30	ppb	1.10	18000	
59	Co	72	1	1.15	1.15	ppb	1.16	3600	
60	Ni	72	1	1.35	1.35	ppb	0.53	3600	
63	Cu	72	1	28.68	28.68	ppb	1.17	3600	
66	Zn	72	1	78.67	78.67	ppb	1.00	3600	
75	As	72	1	2.08	2.08	ppb	1.78	3600	
78	Se	72	1	0.20	0.20	ppb	74.11	3600	
95	Mo	72	1	0.06	0.06	ppb	8.55	3600	
107	Ag	115	1	0.00	0.00	ppb	81.30	3600	
111	Cd	115	1	0.17	0.17	ppb	8.15	3600	
118	Sn	115	1	0.08	0.08	ppb	11.64	3600	
121	Sb	115	1	0.08	0.08	ppb	6.92	3600	
137	Ba	115	1	37.72	37.72	ppb	0.95	3600	
205	Tl	165	1	0.09	0.09	ppb	2.68	3600	
208	Pb	165	1	0.81	0.81	ppb	0.43	3600	
232	Th	165	1	0.13	0.13	ppb	4.67	1000	
238	U	165	1	0.17	0.17	ppb	1.66	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	405453	1.06	401124	101.1	30 - 120	
45	Sc	1	2204431	0.86	2286542	96.4	30 - 120	
72	Ge	1	1335456	0.76	1432607	93.2	30 - 120	
115	In	1	4074045	0.55	4334638	94.0	30 - 120	
165	Ho	1	8366045	0.77	8531815	98.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\182_CCV.D\182_CCV.D#
Date Acquired:	Nov 3 2011 06:41 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 03 2011 06:07 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.04	ppb	0.82	50	98.1	90 - 110	
51	V	72	1	48.98	ppb	2.14	50	98.0	90 - 110	
52	Cr	72	1	49.82	ppb	2.52	50	99.6	90 - 110	
55	Mn	72	1	48.64	ppb	4.54	50	97.3	90 - 110	
59	Co	72	1	50.50	ppb	3.08	50	101.0	90 - 110	
60	Ni	72	1	49.77	ppb	1.85	50	99.5	90 - 110	
63	Cu	72	1	48.19	ppb	1.50	50	96.4	90 - 110	
66	Zn	72	1	50.16	ppb	1.40	50	100.3	90 - 110	
75	As	72	1	49.38	ppb	1.47	50	98.8	90 - 110	
78	Se	72	1	49.81	ppb	5.63	50	99.6	90 - 110	
95	Mo	72	1	49.60	ppb	1.43	50	99.2	90 - 110	
107	Ag	115	1	51.55	ppb	0.81	50	103.1	90 - 110	
111	Cd	115	1	49.84	ppb	0.33	50	99.7	90 - 110	
118	Sn	115	1	48.91	ppb	0.43	50	97.8	90 - 110	
121	Sb	115	1	48.51	ppb	0.89	50	97.0	90 - 110	
137	Ba	115	1	50.52	ppb	1.08	50	101.0	90 - 110	
205	Tl	165	1	51.33	ppb	0.43	50	102.7	90 - 110	
208	Pb	165	1	49.82	ppb	0.77	50	99.6	90 - 110	
232	Th	165	1	51.12	ppb	0.73	50	102.2	90 - 110	
238	U	165	1	51.75	ppb	1.62	50	103.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	418641	0.41	401124	104.4	30 - 120	
45	Sc	1	2245637	0.96	2286542	98.2	30 - 120	
72	Ge	1	1396427	1.50	1432607	97.5	30 - 120	
115	In	1	4220206	1.02	4334638	97.4	30 - 120	
165	Ho	1	8567330	0.37	8531815	100.4	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\183_CCB.D\183_CCB.D#
Date Acquired: Nov 3 2011 06:44 am
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 03 2011 06:07 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.005	ppb	331.16	1.00	
51	V	72	1	0.001	ppb	2140.90	1.00	
52	Cr	72	1	0.041	ppb	17.28	1.00	
55	Mn	72	1	0.030	ppb	25.71	1.00	
59	Co	72	1	0.011	ppb	21.19	1.00	
60	Ni	72	1	0.028	ppb	18.39	1.00	
63	Cu	72	1	0.043	ppb	2.40	1.00	
66	Zn	72	1	0.124	ppb	5.73	1.00	
75	As	72	1	0.008	ppb	139.20	1.00	
78	Se	72	1	-0.346	ppb	80.88	1.00	
95	Mo	72	1	0.015	ppb	32.44	1.00	
107	Ag	115	1	0.013	ppb	30.49	1.00	
111	Cd	115	1	0.008	ppb	50.56	1.00	
118	Sn	115	1	0.064	ppb	14.81	1.00	
121	Sb	115	1	0.024	ppb	5.18	1.00	
137	Ba	115	1	0.019	ppb	37.02	1.00	
205	Tl	165	1	0.014	ppb	7.73	1.00	
208	Pb	165	1	0.011	ppb	6.46	1.00	
232	Th	165	1	0.047	ppb	5.71	1.00	
238	U	165	1	0.014	ppb	4.96	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	419556	0.78	401124	104.6	30 - 120	
45	Sc	1	2234865	1.07	2286542	97.7	30 - 120	
72	Ge	1	1376713	0.64	1432607	96.1	30 - 120	
115	In	1	4264321	1.66	4334638	98.4	30 - 120	
165	Ho	1	8501142	0.65	8531815	99.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\184SMPL.D\184SMPL.D#
Date Acquired:	Nov 3 2011 06:47 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22025-c-4-b
Misc Info:	
Vial Number:	4308
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:07 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.07	0.07	ppb	44.44	3600	
51 V	72	1	9.57	9.57	ppb	1.50	3600	
52 Cr	72	1	0.92	0.92	ppb	3.04	3600	
55 Mn	72	1	1.10	1.10	ppb	2.85	18000	
59 Co	72	1	0.21	0.21	ppb	1.44	3600	
60 Ni	72	1	0.86	0.86	ppb	7.13	3600	
63 Cu	72	1	0.14	0.14	ppb	13.60	3600	
66 Zn	72	1	1.72	1.72	ppb	1.93	3600	
75 As	72	1	0.34	0.34	ppb	4.00	3600	
78 Se	72	1	-0.05	-0.05	ppb	148.09	3600	
95 Mo	72	1	0.03	0.03	ppb	32.57	3600	
107 Ag	115	1	0.00	0.00	ppb	17.51	3600	
111 Cd	115	1	0.01	0.01	ppb	38.94	3600	
118 Sn	115	1	0.05	0.05	ppb	10.75	3600	
121 Sb	115	1	0.04	0.04	ppb	1.51	3600	
137 Ba	115	1	14.86	14.86	ppb	0.16	3600	
205 Tl	165	1	0.02	0.02	ppb	5.36	3600	
208 Pb	165	1	0.03	0.03	ppb	4.87	3600	
232 Th	165	1	0.08	0.08	ppb	5.35	1000	
238 U	165	1	0.15	0.15	ppb	0.27	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	406334	0.35	401124	101.3	30 - 120	
45 Sc	1	2196405	1.20	2286542	96.1	30 - 120	
72 Ge	1	1353852	1.20	1432607	94.5	30 - 120	
115 In	1	4010548	0.43	4334638	92.5	30 - 120	
165 Ho	1	8370178	0.62	8531815	98.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\185SMPL.D\185SMPL.D#
Date Acquired:	Nov 3 2011 06:50 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22025-c-5-b
Misc Info:	
Vial Number:	4309
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:07 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.16	0.16	ppb	28.51	3600	
51	V	72	1	4.45	4.45	ppb	1.57	3600	
52	Cr	72	1	1.20	1.20	ppb	3.14	3600	
55	Mn	72	1	22.28	22.28	ppb	1.19	18000	
59	Co	72	1	7.12	7.12	ppb	2.38	3600	
60	Ni	72	1	8.52	8.52	ppb	2.52	3600	
63	Cu	72	1	1.66	1.66	ppb	2.50	3600	
66	Zn	72	1	70.42	70.42	ppb	0.73	3600	
75	As	72	1	9.79	9.79	ppb	1.48	3600	
78	Se	72	1	2.17	2.17	ppb	9.25	3600	
95	Mo	72	1	0.33	0.33	ppb	8.83	3600	
107	Ag	115	1	0.01	0.01	ppb	30.36	3600	
111	Cd	115	1	4.05	4.05	ppb	1.93	3600	
118	Sn	115	1	0.12	0.12	ppb	9.10	3600	
121	Sb	115	1	0.56	0.56	ppb	1.11	3600	
137	Ba	115	1	61.83	61.83	ppb	0.26	3600	
205	Tl	165	1	2.49	2.49	ppb	0.47	3600	
208	Pb	165	1	0.12	0.12	ppb	5.28	3600	
232	Th	165	1	0.12	0.12	ppb	7.33	1000	
238	U	165	1	1.04	1.04	ppb	1.87	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	386066	0.23	401124	96.2	30 - 120	
45	Sc	1	2167236	1.21	2286542	94.8	30 - 120	
72	Ge	1	1285993	0.72	1432607	89.8	30 - 120	
115	In	1	3869535	0.48	4334638	89.3	30 - 120	
165	Ho	1	8041006	0.68	8531815	94.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\186SMPL.D\186SMPL.D#
Date Acquired: Nov 3 2011 06:53 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22025-c-6-b
Misc Info:
Vial Number: 4310
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 06:07 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.10	0.10	ppb	42.04	3600	
51	V	72	1	0.60	0.60	ppb	6.05	3600	
52	Cr	72	1	0.45	0.45	ppb	1.47	3600	
55	Mn	72	1	1.16	1.16	ppb	3.48	18000	
59	Co	72	1	0.15	0.15	ppb	2.88	3600	
60	Ni	72	1	0.37	0.37	ppb	25.40	3600	
63	Cu	72	1	1.03	1.03	ppb	2.58	3600	
66	Zn	72	1	3.46	3.46	ppb	0.44	3600	
75	As	72	1	0.42	0.42	ppb	2.70	3600	
78	Se	72	1	-0.06	-0.06	ppb	362.93	3600	
95	Mo	72	1	0.04	0.04	ppb	9.23	3600	
107	Ag	115	1	0.00	0.00	ppb	114.84	3600	
111	Cd	115	1	0.02	0.02	ppb	40.84	3600	
118	Sn	115	1	0.23	0.23	ppb	1.06	3600	
121	Sb	115	1	0.03	0.03	ppb	3.19	3600	
137	Ba	115	1	4.82	4.82	ppb	1.85	3600	
205	Tl	165	1	0.03	0.03	ppb	3.22	3600	
208	Pb	165	1	0.16	0.16	ppb	1.09	3600	
232	Th	165	1	0.05	0.05	ppb	3.04	1000	
238	U	165	1	0.20	0.20	ppb	1.89	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	425173	0.26	401124	106.0	30 - 120	
45	Sc	1	2284618	1.10	2286542	99.9	30 - 120	
72	Ge	1	1408569	2.23	1432607	98.3	30 - 120	
115	In	1	4266651	0.46	4334638	98.4	30 - 120	
165	Ho	1	8660570	0.23	8531815	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\187SMPL.D\187SMPL.D#
Date Acquired: Nov 3 2011 06:56 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22025-c-7-b
Misc Info:
Vial Number: 4311
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 06:07 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.15	0.15	ppb	77.24	3600	
51	V	72	1	1.49	1.49	ppb	2.93	3600	
52	Cr	72	1	0.57	0.57	ppb	5.78	3600	
55	Mn	72	1	2.88	2.88	ppb	2.95	18000	
59	Co	72	1	0.18	0.18	ppb	4.41	3600	
60	Ni	72	1	0.33	0.33	ppb	9.68	3600	
63	Cu	72	1	3.71	3.71	ppb	2.07	3600	
66	Zn	72	1	6.27	6.27	ppb	2.46	3600	
75	As	72	1	0.16	0.16	ppb	14.16	3600	
78	Se	72	1	-0.14	-0.14	ppb	95.32	3600	
95	Mo	72	1	0.11	0.11	ppb	4.74	3600	
107	Ag	115	1	0.00	0.00	ppb	78.05	3600	
111	Cd	115	1	0.07	0.07	ppb	3.39	3600	
118	Sn	115	1	0.05	0.05	ppb	2.83	3600	
121	Sb	115	1	0.03	0.03	ppb	4.43	3600	
137	Ba	115	1	24.72	24.72	ppb	0.66	3600	
205	Tl	165	1	0.01	0.01	ppb	9.55	3600	
208	Pb	165	1	0.53	0.53	ppb	3.30	3600	
232	Th	165	1	0.03	0.03	ppb	4.54	1000	
238	U	165	1	0.24	0.24	ppb	1.14	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	426382	0.68	401124	106.3	30 - 120	
45	Sc	1	2301397	1.35	2286542	100.6	30 - 120	
72	Ge	1	1414009	1.16	1432607	98.7	30 - 120	
115	In	1	4266848	0.45	4334638	98.4	30 - 120	
165	Ho	1	8522744	1.67	8531815	99.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\188SMPL.D\188SMPL.D#
Date Acquired:	Nov 3 2011 06:59 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22025-c-8-b
Misc Info:	
Vial Number:	4312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:07 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.07	0.07	ppb	83.26	3600	
51	V	72	1	13.46	13.46	ppb	1.26	3600	
52	Cr	72	1	2.14	2.14	ppb	1.35	3600	
55	Mn	72	1	92.58	92.58	ppb	1.33	18000	
59	Co	72	1	0.32	0.32	ppb	4.34	3600	
60	Ni	72	1	3.91	3.91	ppb	4.05	3600	
63	Cu	72	1	2.19	2.19	ppb	1.00	3600	
66	Zn	72	1	12.59	12.59	ppb	2.00	3600	
75	As	72	1	1.20	1.20	ppb	3.72	3600	
78	Se	72	1	0.86	0.86	ppb	31.83	3600	
95	Mo	72	1	0.11	0.11	ppb	0.38	3600	
107	Ag	115	1	0.00	0.00	ppb	12.14	3600	
111	Cd	115	1	0.02	0.02	ppb	6.47	3600	
118	Sn	115	1	0.17	0.17	ppb	10.17	3600	
121	Sb	115	1	0.06	0.06	ppb	6.26	3600	
137	Ba	115	1	117.20	117.20	ppb	0.78	3600	
205	Tl	165	1	0.00	0.00	ppb	36.45	3600	
208	Pb	165	1	0.14	0.14	ppb	1.24	3600	
232	Th	165	1	0.11	0.11	ppb	5.96	1000	
238	U	165	1	0.83	0.83	ppb	0.47	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	397647	0.47	401124	99.1	30 - 120	
45	Sc	1	2210193	0.40	2286542	96.7	30 - 120	
72	Ge	1	1312167	0.87	1432607	91.6	30 - 120	
115	In	1	3904167	0.20	4334638	90.1	30 - 120	
165	Ho	1	8211926	0.79	8531815	96.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\189SMPL.D\189SMPL.D#
Date Acquired:	Nov 3 2011 07:02 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22025-c-9-b
Misc Info:	
Vial Number:	4401
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:07 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.12	0.12	ppb	19.64	3600	
51	V	72	1	3.12	3.12	ppb	0.54	3600	
52	Cr	72	1	0.73	0.73	ppb	7.10	3600	
55	Mn	72	1	7.41	7.41	ppb	0.67	18000	
59	Co	72	1	0.08	0.08	ppb	3.25	3600	
60	Ni	72	1	0.16	0.16	ppb	11.90	3600	
63	Cu	72	1	0.13	0.13	ppb	0.89	3600	
66	Zn	72	1	2.44	2.44	ppb	2.13	3600	
75	As	72	1	0.93	0.93	ppb	2.69	3600	
78	Se	72	1	-0.26	-0.26	ppb	76.14	3600	
95	Mo	72	1	0.03	0.03	ppb	49.89	3600	
107	Ag	115	1	0.00	0.00	ppb	22.26	3600	
111	Cd	115	1	0.01	0.01	ppb	31.93	3600	
118	Sn	115	1	0.07	0.07	ppb	18.24	3600	
121	Sb	115	1	0.02	0.02	ppb	12.48	3600	
137	Ba	115	1	69.63	69.63	ppb	1.10	3600	
205	Tl	165	1	0.00	0.00	ppb	25.54	3600	
208	Pb	165	1	0.03	0.03	ppb	7.08	3600	
232	Th	165	1	0.03	0.03	ppb	6.86	1000	
238	U	165	1	0.23	0.23	ppb	0.27	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	411724	1.39	401124	102.6	30 - 120	
45	Sc	1	2253690	0.79	2286542	98.6	30 - 120	
72	Ge	1	1366041	1.57	1432607	95.4	30 - 120	
115	In	1	4100748	0.79	4334638	94.6	30 - 120	
165	Ho	1	8388441	0.90	8531815	98.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\190SMPL.D\190SMPL.D#
Date Acquired:	Nov 3 2011 07:04 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22025-c-10-b
Misc Info:	
Vial Number:	4402
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:07 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.07	0.07	ppb	86.14	3600	
51	V	72	1	2.69	2.69	ppb	2.97	3600	
52	Cr	72	1	0.98	0.98	ppb	0.69	3600	
55	Mn	72	1	1.92	1.92	ppb	0.91	18000	
59	Co	72	1	0.03	0.03	ppb	13.50	3600	
60	Ni	72	1	0.19	0.19	ppb	7.17	3600	
63	Cu	72	1	0.08	0.08	ppb	12.90	3600	
66	Zn	72	1	1.89	1.89	ppb	2.36	3600	
75	As	72	1	0.26	0.26	ppb	7.17	3600	
78	Se	72	1	0.25	0.25	ppb	18.61	3600	
95	Mo	72	1	0.00	0.00	ppb	721.89	3600	
107	Ag	115	1	0.00	0.00	ppb	79.03	3600	
111	Cd	115	1	0.00	0.00	ppb	95.28	3600	
118	Sn	115	1	0.04	0.04	ppb	11.73	3600	
121	Sb	115	1	0.01	0.01	ppb	6.12	3600	
137	Ba	115	1	14.47	14.47	ppb	0.06	3600	
205	Tl	165	1	0.00	0.00	ppb	163.02	3600	
208	Pb	165	1	0.02	0.02	ppb	9.00	3600	
232	Th	165	1	0.02	0.02	ppb	6.84	1000	
238	U	165	1	0.06	0.06	ppb	0.99	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	422609	1.15	401124	105.4	30 - 120	
45	Sc	1	2284369	1.06	2286542	99.9	30 - 120	
72	Ge	1	1431672	0.66	1432607	99.9	30 - 120	
115	In	1	4252900	0.35	4334638	98.1	30 - 120	
165	Ho	1	8543176	0.87	8531815	100.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\191SMPL.D\191SMPL.D#
Date Acquired: Nov 3 2011 07:07 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 80-22025-c-11-b
Misc Info:
Vial Number: 4403
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 06:07 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	26.53	3600	
51	V	72	1	3.97	3.97	ppb	1.01	3600	
52	Cr	72	1	1.62	1.62	ppb	0.38	3600	
55	Mn	72	1	19.91	19.91	ppb	0.79	18000	
59	Co	72	1	2.42	2.42	ppb	1.71	3600	
60	Ni	72	1	7.17	7.17	ppb	1.22	3600	
63	Cu	72	1	2.26	2.26	ppb	1.79	3600	
66	Zn	72	1	113.80	113.80	ppb	0.57	3600	
75	As	72	1	1.11	1.11	ppb	1.75	3600	
78	Se	72	1	3.88	3.88	ppb	14.77	3600	
95	Mo	72	1	0.03	0.03	ppb	9.31	3600	
107	Ag	115	1	0.00	0.00	ppb	152.30	3600	
111	Cd	115	1	0.11	0.11	ppb	11.00	3600	
118	Sn	115	1	0.06	0.06	ppb	20.90	3600	
121	Sb	115	1	0.07	0.07	ppb	5.54	3600	
137	Ba	115	1	33.79	33.79	ppb	1.47	3600	
205	Tl	165	1	0.40	0.40	ppb	0.83	3600	
208	Pb	165	1	0.12	0.12	ppb	1.56	3600	
232	Th	165	1	0.08	0.08	ppb	1.55	1000	
238	U	165	1	0.11	0.11	ppb	1.60	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	410730	0.23	401124	102.4	30 - 120	
45	Sc	1	2217210	0.26	2286542	97.0	30 - 120	
72	Ge	1	1355064	1.20	1432607	94.6	30 - 120	
115	In	1	4052306	0.27	4334638	93.5	30 - 120	
165	Ho	1	8285836	0.48	8531815	97.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\192SMPL.D\192SMPL.D#
Date Acquired: Nov 3 2011 07:10 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22025-c-12-b
Misc Info:
Vial Number: 4404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 06:07 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.36	0.36	ppb	9.92	3600	
51	V	72	1	2.85	2.85	ppb	2.70	3600	
52	Cr	72	1	1.09	1.09	ppb	2.30	3600	
55	Mn	72	1	319.60	319.60	ppb	0.61	18000	
59	Co	72	1	0.06	0.06	ppb	8.78	3600	
60	Ni	72	1	0.71	0.71	ppb	4.79	3600	
63	Cu	72	1	4.07	4.07	ppb	1.00	3600	
66	Zn	72	1	13.17	13.17	ppb	0.39	3600	
75	As	72	1	2.02	2.02	ppb	3.27	3600	
78	Se	72	1	0.30	0.30	ppb	51.26	3600	
95	Mo	72	1	0.03	0.03	ppb	23.33	3600	
107	Ag	115	1	0.00	0.00	ppb	63.15	3600	
111	Cd	115	1	0.03	0.03	ppb	19.35	3600	
118	Sn	115	1	0.63	0.63	ppb	1.54	3600	
121	Sb	115	1	0.02	0.02	ppb	8.66	3600	
137	Ba	115	1	105.60	105.60	ppb	0.16	3600	
205	Tl	165	1	0.00	0.00	ppb	54.30	3600	
208	Pb	165	1	0.05	0.05	ppb	2.19	3600	
232	Th	165	1	0.02	0.02	ppb	5.02	1000	
238	U	165	1	0.08	0.08	ppb	1.38	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	394887	0.45	401124	98.4	30 - 120	
45	Sc	1	2194811	1.64	2286542	96.0	30 - 120	
72	Ge	1	1296410	0.91	1432607	90.5	30 - 120	
115	In	1	3930073	0.50	4334638	90.7	30 - 120	
165	Ho	1	8080950	0.47	8531815	94.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\193SMPL.D\193SMPL.D#
Date Acquired: Nov 3 2011 07:13 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22025-c-13-b
Misc Info:
Vial Number: 4405
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 06:07 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.10	0.10	ppb	62.83	3600	
51	V	72	1	1.37	1.37	ppb	3.41	3600	
52	Cr	72	1	1.16	1.16	ppb	3.03	3600	
55	Mn	72	1	22.38	22.38	ppb	2.03	18000	
59	Co	72	1	3.56	3.56	ppb	1.26	3600	
60	Ni	72	1	4.73	4.73	ppb	1.31	3600	
63	Cu	72	1	15.94	15.94	ppb	1.98	3600	
66	Zn	72	1	140.00	140.00	ppb	1.27	3600	
75	As	72	1	2.73	2.73	ppb	1.56	3600	
78	Se	72	1	0.05	0.05	ppb	183.96	3600	
95	Mo	72	1	0.09	0.09	ppb	13.87	3600	
107	Ag	115	1	0.00	0.00	ppb	7.48	3600	
111	Cd	115	1	0.04	0.04	ppb	29.03	3600	
118	Sn	115	1	0.11	0.11	ppb	3.22	3600	
121	Sb	115	1	0.05	0.05	ppb	6.87	3600	
137	Ba	115	1	80.35	80.35	ppb	0.98	3600	
205	Tl	165	1	0.16	0.16	ppb	1.51	3600	
208	Pb	165	1	1.59	1.59	ppb	1.84	3600	
232	Th	165	1	0.08	0.08	ppb	7.42	1000	
238	U	165	1	0.11	0.11	ppb	1.94	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	404707	0.33	401124	100.9	30 - 120	
45	Sc	1	2212815	0.64	2286542	96.8	30 - 120	
72	Ge	1	1355297	0.47	1432607	94.6	30 - 120	
115	In	1	4058329	0.80	4334638	93.6	30 - 120	
165	Ho	1	8289136	1.00	8531815	97.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\194_CCV.D\194_CCV.D#
Date Acquired:	Nov 3 2011 07:16 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 03 2011 06:07 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	47.82	ppb	2.00	50	95.6	90 - 110	
51	V	72	1	50.91	ppb	1.97	50	101.8	90 - 110	
52	Cr	72	1	50.69	ppb	2.11	50	101.4	90 - 110	
55	Mn	72	1	48.71	ppb	1.08	50	97.4	90 - 110	
59	Co	72	1	50.95	ppb	0.98	50	101.9	90 - 110	
60	Ni	72	1	50.20	ppb	0.42	50	100.4	90 - 110	
63	Cu	72	1	48.67	ppb	0.97	50	97.3	90 - 110	
66	Zn	72	1	50.51	ppb	0.93	50	101.0	90 - 110	
75	As	72	1	49.86	ppb	1.17	50	99.7	90 - 110	
78	Se	72	1	49.79	ppb	4.08	50	99.6	90 - 110	
95	Mo	72	1	50.23	ppb	1.66	50	100.5	90 - 110	
107	Ag	115	1	50.42	ppb	1.79	50	100.8	90 - 110	
111	Cd	115	1	49.54	ppb	0.92	50	99.1	90 - 110	
118	Sn	115	1	48.19	ppb	1.72	50	96.4	90 - 110	
121	Sb	115	1	47.95	ppb	0.80	50	95.9	90 - 110	
137	Ba	115	1	50.00	ppb	1.05	50	100.0	90 - 110	
205	Tl	165	1	51.58	ppb	1.16	50	103.2	90 - 110	
208	Pb	165	1	50.10	ppb	0.21	50	100.2	90 - 110	
232	Th	165	1	51.03	ppb	1.31	50	102.1	90 - 110	
238	U	165	1	52.02	ppb	0.87	50	104.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	426997	0.33	401124	106.4	30 - 120	
45	Sc	1	2265480	0.43	2286542	99.1	30 - 120	
72	Ge	1	1399798	0.74	1432607	97.7	30 - 120	
115	In	1	4294845	1.13	4334638	99.1	30 - 120	
165	Ho	1	8485216	0.46	8531815	99.5	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\195_CCB.D\195_CCB.D#
Date Acquired: Nov 3 2011 07:19 am
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 03 2011 06:07 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.006	ppb	151.63	1.00	
51	V	72	1	0.020	ppb	39.80	1.00	
52	Cr	72	1	0.037	ppb	20.49	1.00	
55	Mn	72	1	0.028	ppb	2.48	1.00	
59	Co	72	1	0.007	ppb	20.33	1.00	
60	Ni	72	1	0.034	ppb	72.36	1.00	
63	Cu	72	1	0.038	ppb	14.29	1.00	
66	Zn	72	1	0.121	ppb	4.18	1.00	
75	As	72	1	-0.003	ppb	201.54	1.00	
78	Se	72	1	-0.383	ppb	20.32	1.00	
95	Mo	72	1	0.010	ppb	70.95	1.00	
107	Ag	115	1	0.009	ppb	18.33	1.00	
111	Cd	115	1	0.005	ppb	180.40	1.00	
118	Sn	115	1	0.060	ppb	1.86	1.00	
121	Sb	115	1	0.018	ppb	6.27	1.00	
137	Ba	115	1	0.018	ppb	16.56	1.00	
205	Tl	165	1	0.018	ppb	3.37	1.00	
208	Pb	165	1	0.011	ppb	13.65	1.00	
232	Th	165	1	0.043	ppb	5.94	1.00	
238	U	165	1	0.012	ppb	5.16	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	428543	0.28	401124	106.8	30 - 120	
45	Sc	1	2271288	1.58	2286542	99.3	30 - 120	
72	Ge	1	1394119	1.10	1432607	97.3	30 - 120	
115	In	1	4234671	0.70	4334638	97.7	30 - 120	
165	Ho	1	8482250	0.21	8531815	99.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\196SMPL.D\196SMPL.D#
Date Acquired:	Nov 3 2011 07:22 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22029-m-2-b
Misc Info:	
Vial Number:	4406
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:07 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.17	0.17	ppb	12.54	3600	
51	V	72	1	18.24	18.24	ppb	0.92	3600	
52	Cr	72	1	6.33	6.33	ppb	1.02	3600	
55	Mn	72	1	4,079.00	4079.00	ppb	1.20	18000	
59	Co	72	1	4.32	4.32	ppb	0.19	3600	
60	Ni	72	1	11.86	11.86	ppb	3.01	3600	
63	Cu	72	1	11.63	11.63	ppb	1.33	3600	
66	Zn	72	1	55.14	55.14	ppb	1.16	3600	
75	As	72	1	10.36	10.36	ppb	0.91	3600	
78	Se	72	1	0.77	0.77	ppb	31.94	3600	
95	Mo	72	1	49.61	49.61	ppb	0.53	3600	
107	Ag	115	1	0.13	0.13	ppb	2.03	3600	
111	Cd	115	1	0.12	0.12	ppb	16.03	3600	
118	Sn	115	1	2.83	2.83	ppb	0.49	3600	
121	Sb	115	1	0.84	0.84	ppb	1.69	3600	
137	Ba	115	1	217.40	217.40	ppb	0.90	3600	
205	Tl	165	1	0.06	0.06	ppb	2.26	3600	
208	Pb	165	1	1.82	1.82	ppb	1.61	3600	
232	Th	165	1	0.93	0.93	ppb	1.51	1000	
238	U	165	1	12.06	12.06	ppb	1.24	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	345297	0.70	401124	86.1	30 - 120	
45	Sc	1	2017077	2.47	2286542	88.2	30 - 120	
72	Ge	1	1157321	1.38	1432607	80.8	30 - 120	
115	In	1	3445568	1.12	4334638	79.5	30 - 120	
165	Ho	1	7125683	1.04	8531815	83.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\197SMPL.D\197SMPL.D#
Date Acquired:	Nov 3 2011 07:25 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22080-g-1-a
Misc Info:	
Vial Number:	4407
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:07 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	386.29	3600	
51	V	72	1	2.26	2.26	ppb	1.17	3600	
52	Cr	72	1	0.36	0.36	ppb	0.29	3600	
55	Mn	72	1	2.68	2.68	ppb	1.47	18000	
59	Co	72	1	0.05	0.05	ppb	5.06	3600	
60	Ni	72	1	0.48	0.48	ppb	3.27	3600	
63	Cu	72	1	0.71	0.71	ppb	3.66	3600	
66	Zn	72	1	4.03	4.03	ppb	0.67	3600	
75	As	72	1	0.84	0.84	ppb	1.92	3600	
78	Se	72	1	0.12	0.12	ppb	300.51	3600	
95	Mo	72	1	0.38	0.38	ppb	4.26	3600	
107	Ag	115	1	0.00	0.00	ppb	18.57	3600	
111	Cd	115	1	0.01	0.01	ppb	102.90	3600	
118	Sn	115	1	0.12	0.12	ppb	11.68	3600	
121	Sb	115	1	0.28	0.28	ppb	4.55	3600	
137	Ba	115	1	11.34	11.34	ppb	0.60	3600	
205	Tl	165	1	0.01	0.01	ppb	26.56	3600	
208	Pb	165	1	0.13	0.13	ppb	0.39	3600	
232	Th	165	1	0.01	0.01	ppb	14.73	1000	
238	U	165	1	0.16	0.16	ppb	1.43	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	444805	0.04	401124	110.9	30 - 120	
45	Sc	1	2417164	1.36	2286542	105.7	30 - 120	
72	Ge	1	1475781	0.94	1432607	103.0	30 - 120	
115	In	1	4346173	0.96	4334638	100.3	30 - 120	
165	Ho	1	8701614	0.67	8531815	102.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\198SMPL.D\198SMPL.D#
Date Acquired:	Nov 3 2011 07:28 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22080-g-2-a
Misc Info:	
Vial Number:	4408
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:07 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	2642.80	3600	
51	V	72	1	77.17	77.17	ppb	0.84	3600	
52	Cr	72	1	1.07	1.07	ppb	2.07	3600	
55	Mn	72	1	71.00	71.00	ppb	0.61	18000	
59	Co	72	1	0.27	0.27	ppb	3.03	3600	
60	Ni	72	1	5.36	5.36	ppb	2.12	3600	
63	Cu	72	1	2.31	2.31	ppb	0.18	3600	
66	Zn	72	1	7.67	7.67	ppb	0.78	3600	
75	As	72	1	5.72	5.72	ppb	2.85	3600	
78	Se	72	1	1.41	1.41	ppb	32.70	3600	
95	Mo	72	1	7.35	7.35	ppb	1.50	3600	
107	Ag	115	1	0.00	0.00	ppb	42.99	3600	
111	Cd	115	1	0.02	0.02	ppb	15.64	3600	
118	Sn	115	1	0.33	0.33	ppb	5.85	3600	
121	Sb	115	1	2.06	2.06	ppb	1.44	3600	
137	Ba	115	1	33.09	33.09	ppb	1.65	3600	
205	Tl	165	1	0.01	0.01	ppb	7.37	3600	
208	Pb	165	1	0.40	0.40	ppb	0.21	3600	
232	Th	165	1	0.03	0.03	ppb	16.56	1000	
238	U	165	1	0.77	0.77	ppb	0.39	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	426872	0.50	401124	106.4	30 - 120	
45	Sc	1	2338419	1.54	2286542	102.3	30 - 120	
72	Ge	1	1396495	0.87	1432607	97.5	30 - 120	
115	In	1	4080439	1.30	4334638	94.1	30 - 120	
165	Ho	1	8244686	0.77	8531815	96.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\199SMPL.D\199SMPL.D#
Date Acquired: Nov 3 2011 07:31 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22049-c-1-b
Misc Info:
Vial Number: 4409
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 06:07 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.15	0.15	ppb	17.80	3600	
51	V	72	1	3.41	3.41	ppb	5.72	3600	
52	Cr	72	1	0.80	0.80	ppb	2.57	3600	
55	Mn	72	1	84.95	84.95	ppb	4.02	18000	
59	Co	72	1	0.92	0.92	ppb	2.28	3600	
60	Ni	72	1	1.50	1.50	ppb	3.95	3600	
63	Cu	72	1	2.89	2.89	ppb	0.79	3600	
66	Zn	72	1	10.45	10.45	ppb	1.65	3600	
75	As	72	1	0.44	0.44	ppb	2.01	3600	
78	Se	72	1	98.59	98.59	ppb	2.41	3600	
95	Mo	72	1	0.08	0.08	ppb	5.91	3600	
107	Ag	115	1	0.02	0.02	ppb	12.04	3600	
111	Cd	115	1	0.13	0.13	ppb	11.47	3600	
118	Sn	115	1	0.10	0.10	ppb	14.71	3600	
121	Sb	115	1	0.08	0.08	ppb	2.07	3600	
137	Ba	115	1	19.06	19.06	ppb	1.51	3600	
205	Tl	165	1	0.03	0.03	ppb	3.93	3600	
208	Pb	165	1	1.76	1.76	ppb	1.84	3600	
232	Th	165	1	1.47	1.47	ppb	2.85	1000	
238	U	165	1	36.92	36.92	ppb	1.57	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	393920	0.84	401124	98.2	30 - 120	
45	Sc	1	2181609	1.80	2286542	95.4	30 - 120	
72	Ge	1	1222232	1.35	1432607	85.3	30 - 120	
115	In	1	3651539	1.78	4334638	84.2	30 - 120	
165	Ho	1	7499973	1.52	8531815	87.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\200SMPL.D\200SMPL.D#
Date Acquired: Nov 3 2011 07:34 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22049-c-2-b
Misc Info:
Vial Number: 4410
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 06:07 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	209.83	3600	
51	V	72	1	0.39	0.39	ppb	7.30	3600	
52	Cr	72	1	0.19	0.19	ppb	10.20	3600	
55	Mn	72	1	3.58	3.58	ppb	0.09	18000	
59	Co	72	1	0.15	0.15	ppb	7.22	3600	
60	Ni	72	1	1.00	1.00	ppb	5.61	3600	
63	Cu	72	1	0.37	0.37	ppb	3.35	3600	
66	Zn	72	1	4.51	4.51	ppb	1.30	3600	
75	As	72	1	0.15	0.15	ppb	7.08	3600	
78	Se	72	1	14.03	14.03	ppb	5.28	3600	
95	Mo	72	1	0.73	0.73	ppb	4.55	3600	
107	Ag	115	1	0.00	0.00	ppb	38.91	3600	
111	Cd	115	1	0.10	0.10	ppb	13.95	3600	
118	Sn	115	1	0.10	0.10	ppb	6.77	3600	
121	Sb	115	1	0.02	0.02	ppb	14.81	3600	
137	Ba	115	1	17.09	17.09	ppb	2.75	3600	
205	Tl	165	1	0.01	0.01	ppb	7.37	3600	
208	Pb	165	1	0.13	0.13	ppb	2.24	3600	
232	Th	165	1	0.07	0.07	ppb	2.18	1000	
238	U	165	1	7.53	7.53	ppb	0.58	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	404919	1.12	401124	100.9	30 - 120	
45	Sc	1	2251860	1.72	2286542	98.5	30 - 120	
72	Ge	1	1309375	0.85	1432607	91.4	30 - 120	
115	In	1	3928565	0.99	4334638	90.6	30 - 120	
165	Ho	1	8070268	0.27	8531815	94.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\201SMPL.D\201SMPL.D#
Date Acquired: Nov 3 2011 07:37 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22049-c-3-b
Misc Info:
Vial Number: 4411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 06:07 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.54	0.54	ppb	22.94	3600	
51	V	72	1	41.46	41.46	ppb	0.57	3600	
52	Cr	72	1	10.96	10.96	ppb	0.40	3600	
55	Mn	72	1	936.00	936.00	ppb	0.53	18000	
59	Co	72	1	8.99	8.99	ppb	1.10	3600	
60	Ni	72	1	5.63	5.63	ppb	2.03	3600	
63	Cu	72	1	16.10	16.10	ppb	0.26	3600	
66	Zn	72	1	62.96	62.96	ppb	0.97	3600	
75	As	72	1	1.52	1.52	ppb	3.55	3600	
78	Se	72	1	4.59	4.59	ppb	8.31	3600	
95	Mo	72	1	0.87	0.87	ppb	1.80	3600	
107	Ag	115	1	0.04	0.04	ppb	6.96	3600	
111	Cd	115	1	0.27	0.27	ppb	9.40	3600	
118	Sn	115	1	0.19	0.19	ppb	12.23	3600	
121	Sb	115	1	0.06	0.06	ppb	7.89	3600	
137	Ba	115	1	377.30	377.30	ppb	0.43	3600	
205	Tl	165	1	0.17	0.17	ppb	2.31	3600	
208	Pb	165	1	5.00	5.00	ppb	0.99	3600	
232	Th	165	1	4.56	4.56	ppb	1.44	1000	
238	U	165	1	5.45	5.45	ppb	0.85	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	380064	0.73	401124	94.7	30 - 120	
45	Sc	1	2191793	1.23	2286542	95.9	30 - 120	
72	Ge	1	1226618	1.17	1432607	85.6	30 - 120	
115	In	1	3743794	1.03	4334638	86.4	30 - 120	
165	Ho	1	7611946	0.28	8531815	89.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\202SMPL.D\202SMPL.D#
Date Acquired: Nov 3 2011 07:40 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22049-c-4-b
Misc Info:
Vial Number: 4412
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 06:07 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	760.17	3600	
51	V	72	1	0.34	0.34	ppb	8.76	3600	
52	Cr	72	1	0.13	0.13	ppb	1.18	3600	
55	Mn	72	1	33.96	33.96	ppb	0.47	18000	
59	Co	72	1	0.22	0.22	ppb	1.88	3600	
60	Ni	72	1	2.71	2.71	ppb	2.82	3600	
63	Cu	72	1	0.94	0.94	ppb	4.08	3600	
66	Zn	72	1	4.17	4.17	ppb	1.80	3600	
75	As	72	1	0.50	0.50	ppb	1.16	3600	
78	Se	72	1	106.40	106.40	ppb	1.32	3600	
95	Mo	72	1	0.75	0.75	ppb	0.41	3600	
107	Ag	115	1	0.02	0.02	ppb	10.53	3600	
111	Cd	115	1	0.13	0.13	ppb	20.83	3600	
118	Sn	115	1	0.09	0.09	ppb	15.98	3600	
121	Sb	115	1	0.06	0.06	ppb	11.36	3600	
137	Ba	115	1	10.86	10.86	ppb	0.31	3600	
205	Tl	165	1	0.04	0.04	ppb	5.09	3600	
208	Pb	165	1	0.12	0.12	ppb	1.40	3600	
232	Th	165	1	0.06	0.06	ppb	1.78	1000	
238	U	165	1	29.60	29.60	ppb	1.30	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	354997	0.49	401124	88.5	30 - 120	
45	Sc	1	2004896	0.66	2286542	87.7	30 - 120	
72	Ge	1	1106844	0.92	1432607	77.3	30 - 120	
115	In	1	3414089	0.51	4334638	78.8	30 - 120	
165	Ho	1	7092891	0.89	8531815	83.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\203_CCV.D\203_CCV.D#
Date Acquired: Nov 3 2011 07:43 am
Operator: LRD
Sample Name: CCV-1106831
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 03 2011 06:07 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	47.88	ppb	0.48	50	95.8	90 - 110	
51	V	72	1	50.76	ppb	0.82	50	101.5	90 - 110	
52	Cr	72	1	49.88	ppb	0.71	50	99.8	90 - 110	
55	Mn	72	1	49.57	ppb	0.74	50	99.1	90 - 110	
59	Co	72	1	50.30	ppb	1.06	50	100.6	90 - 110	
60	Ni	72	1	50.12	ppb	0.31	50	100.2	90 - 110	
63	Cu	72	1	48.35	ppb	0.82	50	96.7	90 - 110	
66	Zn	72	1	49.30	ppb	0.39	50	98.6	90 - 110	
75	As	72	1	49.63	ppb	0.40	50	99.3	90 - 110	
78	Se	72	1	47.68	ppb	0.25	50	95.4	90 - 110	
95	Mo	72	1	49.39	ppb	0.66	50	98.8	90 - 110	
107	Ag	115	1	51.47	ppb	0.78	50	102.9	90 - 110	
111	Cd	115	1	49.62	ppb	0.18	50	99.2	90 - 110	
118	Sn	115	1	48.32	ppb	0.48	50	96.6	90 - 110	
121	Sb	115	1	47.69	ppb	0.45	50	95.4	90 - 110	
137	Ba	115	1	50.08	ppb	0.34	50	100.2	90 - 110	
205	Tl	165	1	50.29	ppb	0.58	50	100.6	90 - 110	
208	Pb	165	1	48.60	ppb	0.77	50	97.2	90 - 110	
232	Th	165	1	49.01	ppb	1.48	50	98.0	90 - 110	
238	U	165	1	49.33	ppb	1.79	50	98.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	443690	1.53	401124	110.6	30 - 120	
45	Sc	1	2436340	0.55	2286542	106.6	30 - 120	
72	Ge	1	1523052	0.47	1432607	106.3	30 - 120	
115	In	1	4521857	0.17	4334638	104.3	30 - 120	
165	Ho	1	8773365	0.52	8531815	102.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\204_CCB.D\204_CCB.D#
Date Acquired: Nov 3 2011 07:46 am
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 03 2011 06:07 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.014	ppb	123.93	1.00	
51	V	72	1	0.023	ppb	69.51	1.00	
52	Cr	72	1	0.017	ppb	55.82	1.00	
55	Mn	72	1	0.049	ppb	10.00	1.00	
59	Co	72	1	0.008	ppb	27.07	1.00	
60	Ni	72	1	0.033	ppb	28.85	1.00	
63	Cu	72	1	0.063	ppb	15.76	1.00	
66	Zn	72	1	0.144	ppb	7.14	1.00	
75	As	72	1	0.001	ppb	533.41	1.00	
78	Se	72	1	-0.220	ppb	40.70	1.00	
95	Mo	72	1	0.016	ppb	30.36	1.00	
107	Ag	115	1	0.012	ppb	14.31	1.00	
111	Cd	115	1	0.014	ppb	22.25	1.00	
118	Sn	115	1	0.061	ppb	12.69	1.00	
121	Sb	115	1	0.018	ppb	7.58	1.00	
137	Ba	115	1	0.020	ppb	23.38	1.00	
205	Tl	165	1	0.019	ppb	11.42	1.00	
208	Pb	165	1	0.013	ppb	3.87	1.00	
232	Th	165	1	0.043	ppb	3.83	1.00	
238	U	165	1	0.015	ppb	7.09	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	441225	0.34	401124	110.0	30 - 120	
45	Sc	1	2416654	0.50	2286542	105.7	30 - 120	
72	Ge	1	1508479	1.05	1432607	105.3	30 - 120	
115	In	1	4513907	0.35	4334638	104.1	30 - 120	
165	Ho	1	8633325	1.31	8531815	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\205WASH.D\205WASH.D#
Date Acquired: Nov 3 2011 07:48 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 03 2011 06:07 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.007	ppb	1.96	1.30	
51	V	72	1	0.208	ppb	11.74	6.50	
52	Cr	72	1	1.253	ppb	1.76	2.60	
55	Mn	72	1	0.628	ppb	3.17	1.30	
59	Co	72	1	0.074	ppb	5.51	1.30	
60	Ni	72	1	1.138	ppb	0.73	2.60	
63	Cu	72	1	0.479	ppb	2.97	2.60	
66	Zn	72	1	7.646	ppb	0.41	13.00	
75	As	72	1	0.590	ppb	2.28	6.50	
78	Se	72	1	-0.142	ppb	346.19	6.50	
95	Mo	72	1	2227.000	ppb	0.25	2.60	
107	Ag	115	1	0.074	ppb	12.56	6.50	
111	Cd	115	1	0.680	ppb	25.39	1.30	
118	Sn	115	1	0.229	ppb	10.06	13.00	
121	Sb	115	1	0.291	ppb	1.88	2.60	
137	Ba	115	1	0.244	ppb	8.73	1.30	
205	Tl	165	1	0.032	ppb	19.01	1.30	
208	Pb	165	1	0.153	ppb	2.29	1.30	
232	Th	165	1	0.045	ppb	6.35	2.60	
238	U	165	1	0.022	ppb	3.70	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	375996	0.73	401124	93.7	30 - 120	
45	Sc	1	2098030	1.41	2286542	91.8	30 - 120	
72	Ge	1	1252095	0.18	1432607	87.4	30 - 120	
115	In	1	3760788	0.66	4334638	86.8	30 - 120	
165	Ho	1	7547804	0.84	8531815	88.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\206WASH.D\206WASH.D#
Date Acquired: Nov 3 2011 07:51 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 03 2011 06:07 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.005 ppb	338.96	1.30	
51	V	72	1	0.016 ppb	27.05	6.50	
52	Cr	72	1	0.007 ppb	190.42	2.60	
55	Mn	72	1	0.031 ppb	26.49	1.30	
59	Co	72	1	0.002 ppb	64.34	1.30	
60	Ni	72	1	-0.014 ppb	61.74	2.60	
63	Cu	72	1	0.032 ppb	9.68	2.60	
66	Zn	72	1	0.081 ppb	3.92	13.00	
75	As	72	1	-0.006 ppb	121.56	6.50	
78	Se	72	1	-0.334 ppb	98.05	6.50	
95	Mo	72	1	0.356 ppb	12.87	2.60	
107	Ag	115	1	0.002 ppb	45.37	6.50	
111	Cd	115	1	-0.004 ppb	77.51	1.30	
118	Sn	115	1	0.016 ppb	17.77	13.00	
121	Sb	115	1	0.001 ppb	157.79	2.60	
137	Ba	115	1	0.002 ppb	155.22	1.30	
205	Tl	165	1	0.000 ppb	335.21	1.30	
208	Pb	165	1	0.000 ppb	508.29	1.30	
232	Th	165	1	0.002 ppb	71.97	2.60	
238	U	165	1	0.001 ppb	39.53	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	425375	0.87	401124	106.0	30 - 120	
45	Sc	1	2450243	0.68	2286542	107.2	30 - 120	
72	Ge	1	1530105	0.73	1432607	106.8	30 - 120	
115	In	1	4541343	0.07	4334638	104.8	30 - 120	
165	Ho	1	8685702	0.42	8531815	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\207WASH.D\207WASH.D#
Date Acquired: Nov 3 2011 07:54 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 03 2011 06:07 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	-0.006 ppb	153.25	1.30	
51	V	72	1	0.030 ppb	28.27	6.50	
52	Cr	72	1	0.012 ppb	49.33	2.60	
55	Mn	72	1	0.028 ppb	37.49	1.30	
59	Co	72	1	0.000 ppb	298.55	1.30	
60	Ni	72	1	-0.006 ppb	185.40	2.60	
63	Cu	72	1	0.025 ppb	22.32	2.60	
66	Zn	72	1	0.081 ppb	20.24	13.00	
75	As	72	1	-0.006 ppb	193.63	6.50	
78	Se	72	1	-0.412 ppb	48.41	6.50	
95	Mo	72	1	0.097 ppb	7.95	2.60	
107	Ag	115	1	0.000 ppb	24799.00	6.50	
111	Cd	115	1	0.001 ppb	129.37	1.30	
118	Sn	115	1	0.013 ppb	11.07	13.00	
121	Sb	115	1	0.001 ppb	53.39	2.60	
137	Ba	115	1	0.005 ppb	49.11	1.30	
205	Tl	165	1	-0.001 ppb	311.40	1.30	
208	Pb	165	1	-0.001 ppb	45.80	1.30	
232	Th	165	1	0.001 ppb	338.97	2.60	
238	U	165	1	0.000 ppb	135.19	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	428819	0.69	401124	106.9	30 - 120	
45	Sc	1	2495738	0.64	2286542	109.1	30 - 120	
72	Ge	1	1546882	0.72	1432607	108.0	30 - 120	
115	In	1	4620583	0.93	4334638	106.6	30 - 120	
165	Ho	1	8828758	0.76	8531815	103.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\208WASH.D\208WASH.D#
Date Acquired: Nov 3 2011 07:57 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 03 2011 06:07 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.001	ppb	2395.30	1.30	
51	V	72	1	0.005	ppb	537.41	6.50	
52	Cr	72	1	0.014	ppb	71.77	2.60	
55	Mn	72	1	0.036	ppb	26.33	1.30	
59	Co	72	1	0.000	ppb	720.22	1.30	
60	Ni	72	1	-0.005	ppb	78.13	2.60	
63	Cu	72	1	0.028	ppb	15.94	2.60	
66	Zn	72	1	0.079	ppb	13.46	13.00	
75	As	72	1	-0.005	ppb	106.40	6.50	
78	Se	72	1	-0.099	ppb	226.30	6.50	
95	Mo	72	1	0.054	ppb	33.24	2.60	
107	Ag	115	1	0.000	ppb	248.93	6.50	
111	Cd	115	1	0.000	ppb	1172.40	1.30	
118	Sn	115	1	0.015	ppb	48.27	13.00	
121	Sb	115	1	-0.001	ppb	191.94	2.60	
137	Ba	115	1	0.003	ppb	32.52	1.30	
205	Tl	165	1	-0.001	ppb	23.21	1.30	
208	Pb	165	1	0.000	ppb	166.97	1.30	
232	Th	165	1	0.000	ppb	627.91	2.60	
238	U	165	1	0.000	ppb	240.63	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	429355	0.21	401124	107.0	30 - 120	
45	Sc	1	2517773	1.67	2286542	110.1	30 - 120	
72	Ge	1	1557063	0.96	1432607	108.7	30 - 120	
115	In	1	4656015	0.49	4334638	107.4	30 - 120	
165	Ho	1	8791572	0.68	8531815	103.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\209WASH.D\209WASH.D#
Date Acquired: Nov 3 2011 08:00 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 03 2011 06:07 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.006	ppb	153.25	1.30	
51	V	72	1	0.003	ppb	352.76	6.50	
52	Cr	72	1	0.014	ppb	21.06	2.60	
55	Mn	72	1	0.023	ppb	47.34	1.30	
59	Co	72	1	0.000	ppb	1726.10	1.30	
60	Ni	72	1	-0.002	ppb	222.25	2.60	
63	Cu	72	1	0.020	ppb	50.48	2.60	
66	Zn	72	1	0.076	ppb	3.23	13.00	
75	As	72	1	-0.006	ppb	298.81	6.50	
78	Se	72	1	-0.312	ppb	23.51	6.50	
95	Mo	72	1	0.021	ppb	7.74	2.60	
107	Ag	115	1	0.000	ppb	311.38	6.50	
111	Cd	115	1	0.000	ppb	684.89	1.30	
118	Sn	115	1	0.019	ppb	19.29	13.00	
121	Sb	115	1	0.001	ppb	244.56	2.60	
137	Ba	115	1	0.002	ppb	107.35	1.30	
205	Tl	165	1	-0.002	ppb	10.41	1.30	
208	Pb	165	1	-0.002	ppb	27.47	1.30	
232	Th	165	1	0.000	ppb	4077.80	2.60	
238	U	165	1	0.000	ppb	9.55	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	430756	1.23	401124	107.4	30 - 120	
45	Sc	1	2499047	1.12	2286542	109.3	30 - 120	
72	Ge	1	1565324	0.30	1432607	109.3	30 - 120	
115	In	1	4663028	0.34	4334638	107.6	30 - 120	
165	Ho	1	8871170	1.10	8531815	104.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\169CALB.D\169CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\210CALB.D\210CALB.D#
Date Acquired:	Nov 3 2011 08:03 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	Cal Blank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 06:07 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	13	86.64
51	V	72	1	375	17.27
52	Cr	72	1	6635	4.86
55	Mn	72	1	2020	17.00
59	Co	72	1	283	29.04
60	Ni	72	1	877	5.69
63	Cu	72	1	1523	5.78
66	Zn	72	1	617	4.67
75	As	72	1	124	16.88
78	Se	72	1	410	23.52
95	Mo	72	1	387	3.65
107	Ag	115	1	97	43.81
111	Cd	115	1	34	55.98
118	Sn	115	1	863	6.63
121	Sb	115	1	123	7.29
137	Ba	115	1	102	16.98
205	Tl	165	1	444	4.62
208	Pb	165	1	970	6.28
232	Th	165	1	663	19.77
238	U	165	1	449	5.30

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	431073	1.76
45	Sc	1	2501527	1.39
72	Ge	1	1537471	0.97
115	In	1	4599808	1.06
165	Ho	1	8770010	0.88

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#
Date Acquired:	Nov 3 2011 08:06 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1106802
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:04 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	10	0.82
51	V	72	1	302	91.77
52	Cr	72	1	6161	1.81
55	Mn	72	1	1854	8.12
59	Co	72	1	87	52.21
60	Ni	72	1	203	25.29
63	Cu	72	1	1223	3.06
66	Zn	72	1	486	1.08
75	As	72	1	116	21.33
78	Se	72	1	480	12.61
95	Mo	72	1	237	17.50
107	Ag	115	1	63	40.28
111	Cd	115	1	28	17.15
118	Sn	115	1	300	9.43
121	Sb	115	1	60	31.94
137	Ba	115	1	97	19.66
205	Tl	165	1	222	17.17
208	Pb	165	1	643	4.54
232	Th	165	1	477	9.74
238	U	165	1	158	7.51

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	430145	0.82
45	Sc	1	2471808	1.34
72	Ge	1	1546809	0.28
115	In	1	4577165	1.49
165	Ho	1	8765862	0.94

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\212ICAL.D\212ICAL.D#
Date Acquired:	Nov 3 2011 08:09 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1106803
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:07 am
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	63134	0.25
51	V	72	1	2032108	1.54
52	Cr	72	1	2140218	0.72
55	Mn	72	1	1954357	0.67
59	Co	72	1	3026418	0.45
60	Ni	72	1	716610	0.55
63	Cu	72	1	1804962	0.67
66	Zn	72	1	305462	0.70
75	As	72	1	225358	0.78
78	Se	72	1	33800	2.42
95	Mo	72	1	867122	1.05
107	Ag	115	1	2714549	0.90
111	Cd	115	1	446508	1.40
118	Sn	115	1	1209001	3.11
121	Sb	115	1	1334822	1.53
137	Ba	115	1	545951	1.70
205	Tl	165	1	4806675	0.52
208	Pb	165	1	6635802	2.05
232	Th	165	1	6444719	1.84
238	U	165	1	6966445	2.68

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	424661	1.72	430145	98.7	30 - 120	
45	Sc	1	2407404	0.37	2471808	97.4	30 - 120	
72	Ge	1	1505762	0.61	1546809	97.3	30 - 120	
115	In	1	4523911	0.82	4577165	98.8	30 - 120	
165	Ho	1	8676224	1.55	8765862	99.0	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\213_CCV.D\213_CCV.D#
Date Acquired:	Nov 3 2011 08:12 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 03 2011 08:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.29	ppb	0.67	50	98.6	90 - 110	
51	V	72	1	50.34	ppb	0.80	50	100.7	90 - 110	
52	Cr	72	1	50.80	ppb	1.43	50	101.6	90 - 110	
55	Mn	72	1	47.44	ppb	0.99	50	94.9	90 - 110	
59	Co	72	1	51.29	ppb	1.37	50	102.6	90 - 110	
60	Ni	72	1	50.01	ppb	0.72	50	100.0	90 - 110	
63	Cu	72	1	48.37	ppb	0.86	50	96.7	90 - 110	
66	Zn	72	1	49.82	ppb	0.24	50	99.6	90 - 110	
75	As	72	1	49.52	ppb	0.82	50	99.0	90 - 110	
78	Se	72	1	50.74	ppb	3.18	50	101.5	90 - 110	
95	Mo	72	1	49.93	ppb	0.22	50	99.9	90 - 110	
107	Ag	115	1	51.58	ppb	0.14	50	103.2	90 - 110	
111	Cd	115	1	50.40	ppb	0.73	50	100.8	90 - 110	
118	Sn	115	1	48.69	ppb	1.82	50	97.4	90 - 110	
121	Sb	115	1	48.08	ppb	0.75	50	96.2	90 - 110	
137	Ba	115	1	50.43	ppb	0.97	50	100.9	90 - 110	
205	Tl	165	1	51.78	ppb	0.39	50	103.6	90 - 110	
208	Pb	165	1	50.01	ppb	0.65	50	100.0	90 - 110	
232	Th	165	1	51.60	ppb	0.69	50	103.2	90 - 110	
238	U	165	1	51.57	ppb	1.06	50	103.1	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	419298	1.32	430145	97.5	30 - 120	
45	Sc	1	2373403	0.91	2471808	96.0	30 - 120	
72	Ge	1	1486191	0.06	1546809	96.1	30 - 120	
115	In	1	4435847	0.29	4577165	96.9	30 - 120	
165	Ho	1	8507764	0.15	8765862	97.1	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\214_CCB.D\214_CCB.D#
Date Acquired: Nov 3 2011 08:15 am
Operator: LRD
Sample Name: CCB-1106802
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 03 2011 08:10 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.005	ppb	189.84	1.00	
51	V	72	1	0.006	ppb	310.25	1.00	
52	Cr	72	1	0.015	ppb	83.97	1.00	
55	Mn	72	1	0.034	ppb	39.18	1.00	
59	Co	72	1	0.012	ppb	9.51	1.00	
60	Ni	72	1	0.051	ppb	6.86	1.00	
63	Cu	72	1	0.047	ppb	15.47	1.00	
66	Zn	72	1	0.108	ppb	11.23	1.00	
75	As	72	1	0.013	ppb	105.88	1.00	
78	Se	72	1	0.014	ppb	530.04	1.00	
95	Mo	72	1	0.018	ppb	64.19	1.00	
107	Ag	115	1	0.015	ppb	16.18	1.00	
111	Cd	115	1	0.012	ppb	35.61	1.00	
118	Sn	115	1	0.074	ppb	9.36	1.00	
121	Sb	115	1	0.023	ppb	11.56	1.00	
137	Ba	115	1	0.011	ppb	45.95	1.00	
205	Tl	165	1	0.031	ppb	5.88	1.00	
208	Pb	165	1	0.018	ppb	8.66	1.00	
232	Th	165	1	0.065	ppb	1.04	1.00	
238	U	165	1	0.020	ppb	3.89	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	419356	0.73	430145	97.5	30 - 120	
45	Sc	1	2362452	0.93	2471808	95.6	30 - 120	
72	Ge	1	1467737	0.64	1546809	94.9	30 - 120	
115	In	1	4396580	0.35	4577165	96.1	30 - 120	
165	Ho	1	8550780	0.38	8765862	97.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\215_BLK.D\215_BLK.D#
Date Acquired:	Nov 3 2011 08:18 am
Operator:	LRD
Sample Name:	mb 280-93437/1-a
Misc Info:	BLANK 93437 6020
Vial Number:	3308
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 03 2011 08:10 am
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	-0.005 ppb	367.32	2.00	
51	V	72	1	-0.006 ppb	337.81	2.00	
52	Cr	72	1	-0.001 ppb	424.09	2.00	
55	Mn	72	1	0.128 ppb	14.42	2.00	
59	Co	72	1	0.005 ppb	6.31	2.00	
60	Ni	72	1	0.028 ppb	16.62	2.00	
63	Cu	72	1	0.061 ppb	6.41	2.00	
66	Zn	72	1	1.649 ppb	2.88	2.00	
75	As	72	1	-0.006 ppb	93.97	2.00	
78	Se	72	1	0.051 ppb	394.90	2.00	
95	Mo	72	1	-0.004 ppb	232.04	2.00	
107	Ag	115	1	0.005 ppb	33.95	2.00	
111	Cd	115	1	0.003 ppb	88.57	2.00	
118	Sn	115	1	0.042 ppb	21.54	2.00	
121	Sb	115	1	0.010 ppb	8.60	2.00	
137	Ba	115	1	0.128 ppb	5.64	2.00	
205	Tl	165	1	0.013 ppb	9.83	2.00	
208	Pb	165	1	0.021 ppb	8.73	2.00	
232	Th	165	1	0.012 ppb	14.67	2.00	
238	U	165	1	0.004 ppb	6.03	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	419817	0.46	430145	97.6	30 - 120	
45	Sc	1	2345797	1.57	2471808	94.9	30 - 120	
72	Ge	1	1470241	0.91	1546809	95.0	30 - 120	
115	In	1	4425682	1.02	4577165	96.7	30 - 120	
165	Ho	1	8507749	0.90	8765862	97.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\216_LCS.D\216_LCS.D#
Date Acquired:	Nov 3 2011 08:20 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-93437/2-a
Misc Info:	LCS
Vial Number:	3309
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.11	1.55	40	100.3	80 - 120	
51	V	72	1	38.39	0.89	40	96.0	80 - 120	
52	Cr	72	1	39.16	0.36	40	97.9	80 - 120	
55	Mn	72	1	38.95	0.72	40	97.4	80 - 120	
59	Co	72	1	40.84	0.37	40	102.1	80 - 120	
60	Ni	72	1	40.44	1.48	40	101.1	80 - 120	
63	Cu	72	1	39.78	0.85	40	99.5	80 - 120	
66	Zn	72	1	42.35	1.03	40	105.9	80 - 120	
75	As	72	1	40.11	1.15	40	100.3	80 - 120	
78	Se	72	1	41.48	4.64	40	103.7	80 - 120	
95	Mo	72	1	40.34	1.28	40	100.9	80 - 120	
107	Ag	115	1	41.24	0.75	40	103.1	80 - 120	
111	Cd	115	1	40.88	1.46	40	102.2	80 - 120	
118	Sn	115	1	39.87	0.37	40	99.7	80 - 120	
121	Sb	115	1	38.69	0.67	40	96.7	80 - 120	
137	Ba	115	1	41.15	0.61	40	102.9	80 - 120	
205	Tl	165	1	41.91	0.81	40	104.8	80 - 120	
208	Pb	165	1	40.51	0.06	40	101.3	80 - 120	
232	Th	165	1	41.59	1.94	40	104.0	80 - 120	
238	U	165	1	41.91	0.33	40	104.8	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	416081	1.24	430145	96.7	30 - 120	
45	Sc	1	2347398	0.81	2471808	95.0	30 - 120	
72	Ge	1	1451132	1.19	1546809	93.8	30 - 120	
115	In	1	4325288	1.47	4577165	94.5	30 - 120	
165	Ho	1	8484498	0.38	8765862	96.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\217AREF.D\217AREF.D#
Date Acquired: Nov 3 2011 08:23 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22038-d-1-a
Misc Info: 2X
Vial Number: 3310
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 08:10 am
Sample Type: AllRef
Dilution Factor: 2.00
Autodil Factor: Undiluted
Final Dil Factor: 2.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.21	0.10	ppb	54.82	3600	
51	V	72	1	32.08	16.04	ppb	0.72	3600	
52	Cr	72	1	22.20	11.10	ppb	0.27	3600	
55	Mn	72	1	2,382.00	1191.00	ppb	0.91	18000	
59	Co	72	1	13.89	6.95	ppb	2.28	3600	
60	Ni	72	1	36.56	18.28	ppb	0.13	3600	
63	Cu	72	1	0.75	0.38	ppb	2.71	3600	
66	Zn	72	1	13.09	6.55	ppb	2.31	3600	
75	As	72	1	17.51	8.76	ppb	2.79	3600	
78	Se	72	1	2.24	1.12	ppb	9.61	3600	
95	Mo	72	1	2.02	1.01	ppb	1.90	3600	
107	Ag	115	1	0.12	0.06	ppb	10.13	3600	
111	Cd	115	1	0.78	0.39	ppb	10.88	3600	
118	Sn	115	1	0.96	0.48	ppb	1.42	3600	
121	Sb	115	1	0.45	0.23	ppb	2.26	3600	
137	Ba	115	1	1,402.00	701.00	ppb	0.78	3600	
205	Tl	165	1	0.07	0.04	ppb	26.28	3600	
208	Pb	165	1	0.26	0.13	ppb	1.32	3600	
232	Th	165	1	0.24	0.12	ppb	2.39	1000	
238	U	165	1	0.45	0.22	ppb	1.78	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	300808	3.27	430145	69.9	30 - 120	
45	Sc	1	1734091	1.37	2471808	70.2	30 - 120	
72	Ge	1	937258	0.58	1546809	60.6	30 - 120	
115	In	1	3058698	0.51	4577165	66.8	30 - 120	
165	Ho	1	6560604	0.73	8765862	74.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\218SDIL.D\218SDIL.D#
Date Acquired: Nov 3 2011 08:26 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22038-d-1-a SD@10
Misc Info: SERIAL DILUTION
Vial Number: 3311
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 08:10 am
Sample Type: SDIL
Dilution Factor: 2.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110211.B\217AREF.D\217AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.01	ppb	124.12	0.02	40.8	90 - 110	
51 V	72	1	2.94	ppb	3.50	3.21	91.6	90 - 110	
52 Cr	72	1	2.02	ppb	0.85	2.22	91.1	90 - 110	
55 Mn	72	1	228.50	ppb	0.73	238.20	95.9	90 - 110	
59 Co	72	1	1.34	ppb	0.51	1.39	96.4	90 - 110	
60 Ni	72	1	3.58	ppb	2.17	3.66	97.9	90 - 110	
63 Cu	72	1	0.09	ppb	3.37	0.08	118.2	90 - 110	
66 Zn	72	1	1.52	ppb	1.30	1.31	115.9	90 - 110	
75 As	72	1	1.72	ppb	1.34	1.75	98.4	90 - 110	
78 Se	72	1	0.67	ppb	51.50	0.22	297.9	90 - 110	
95 Mo	72	1	0.18	ppb	8.66	0.20	87.3	90 - 110	
107 Ag	115	1	0.01	ppb	22.34	0.01	109.5	90 - 110	
111 Cd	115	1	0.07	ppb	36.64	0.08	90.7	90 - 110	
118 Sn	115	1	0.13	ppb	7.31	0.10	134.1	90 - 110	
121 Sb	115	1	0.05	ppb	2.45	0.05	99.8	90 - 110	
137 Ba	115	1	135.10	ppb	0.78	140.20	96.4	90 - 110	
205 Tl	165	1	0.00	ppb	9.30	0.01	62.9	90 - 110	
208 Pb	165	1	0.03	ppb	3.45	0.03	103.7	90 - 110	
232 Th	165	1	0.02	ppb	8.79	0.02	64.4	90 - 110	
238 U	165	1	0.04	ppb	3.94	0.04	96.5	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	371968	0.39	430145	86.5	30 - 120	
45 Sc	1	2162377	1.46	2471808	87.5	30 - 120	
72 Ge	1	1301057	1.48	1546809	84.1	30 - 120	
115 In	1	3829104	1.16	4577165	83.7	30 - 120	
165 Ho	1	7531735	0.52	8765862	85.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\219PDS.D\219PDS.D#
Date Acquired:	Nov 3 2011 08:29 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22038-d-1-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	PDS
Prep Dil. Factor:	2.00
Autodil Factor:	Undiluted
Final Dil Factor:	2.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	197.90	0.10	ppb	1.98	200	98.9	75 - 125	
51 V	72	1	243.20	16.04	ppb	0.72	200	112.6	75 - 125	
52 Cr	72	1	230.30	11.10	ppb	0.53	200	109.1	75 - 125	
55 Mn	72	1	1386.00	1191.00	ppb	0.65	200	99.6	75 - 125	
59 Co	72	1	212.00	6.95	ppb	0.05	200	102.4	75 - 125	
60 Ni	72	1	212.20	18.28	ppb	0.16	200	97.2	75 - 125	
63 Cu	72	1	195.00	0.38	ppb	0.56	200	97.3	75 - 125	
66 Zn	72	1	193.10	6.55	ppb	0.06	200	93.5	75 - 125	
75 As	72	1	218.10	8.76	ppb	0.87	200	104.5	75 - 125	
78 Se	72	1	199.50	1.12	ppb	1.09	200	99.2	75 - 125	
95 Mo	72	1	246.80	1.01	ppb	1.90	200	122.8	75 - 125	
107 Ag	115	1	41.91	0.06	ppb	0.58	50	83.7	75 - 125	
111 Cd	115	1	187.00	0.39	ppb	0.65	200	93.3	75 - 125	
118 Sn	115	1	205.10	0.48	ppb	1.19	200	102.3	75 - 125	
121 Sb	115	1	204.30	0.23	ppb	0.52	200	102.0	75 - 125	
137 Ba	115	1	913.50	701.00	ppb	1.18	200	101.4	75 - 125	
205 Tl	165	1	179.60	0.04	ppb	0.28	200	89.8	75 - 125	
208 Pb	165	1	176.30	0.13	ppb	0.49	200	88.1	75 - 125	
232 Th	165	1	0.11	0.12	ppb	4.32	200	0.1	75 - 125	
238 U	165	1	199.50	0.22	ppb	1.11	200	99.6	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	296335	1.26	430145	68.9	30 - 120	
45 Sc	1	1723353	0.43	2471808	69.7	30 - 120	
72 Ge	1	941300	0.27	1546809	60.9	30 - 120	
115 In	1	3031606	0.56	4577165	66.2	30 - 120	
165 Ho	1	6567400	0.57	8765862	74.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\220_MS.D\220_MS.D#
Date Acquired:	Nov 3 2011 08:32 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22038-d-1-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	3401
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	MS
Prep Dil. Factor:	2.00
Autodil Factor:	Undiluted
Final Dil Factor:	2.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	19.53	0.10	ppb	4.40	40	48.7	50 - 150	
51 V	72	1	36.84	16.04	ppb	0.34	40	65.7	50 - 150	
52 Cr	72	1	31.07	11.10	ppb	0.20	40	60.8	50 - 150	
55 Mn	72	1	1196.00	1191.00	ppb	0.78	40	97.2	50 - 150	
59 Co	72	1	26.28	6.95	ppb	0.24	40	56.0	50 - 150	
60 Ni	72	1	36.54	18.28	ppb	0.36	40	62.7	50 - 150	
63 Cu	72	1	18.02	0.38	ppb	0.86	40	44.6	50 - 150	
66 Zn	72	1	23.49	6.55	ppb	1.35	40	50.5	50 - 150	
75 As	72	1	28.69	8.76	ppb	0.25	40	58.8	50 - 150	
78 Se	72	1	21.49	1.12	ppb	0.42	40	52.3	50 - 150	
95 Mo	72	1	23.56	1.01	ppb	0.53	40	57.5	50 - 150	
107 Ag	115	1	15.64	0.06	ppb	1.22	40	39.0	50 - 150	
111 Cd	115	1	17.64	0.39	ppb	2.19	40	43.7	50 - 150	
118 Sn	115	1	19.06	0.48	ppb	0.57	40	47.1	50 - 150	
121 Sb	115	1	18.44	0.23	ppb	0.44	40	45.8	50 - 150	
137 Ba	115	1	706.20	701.00	ppb	0.29	40	95.3	50 - 150	
205 Tl	165	1	16.99	0.04	ppb	0.47	40	42.4	50 - 150	
208 Pb	165	1	16.44	0.13	ppb	0.61	40	41.0	50 - 150	
232 Th	165	1	19.23	0.12	ppb	1.47	40	47.9	50 - 150	
238 U	165	1	19.28	0.22	ppb	0.94	40	47.9	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	291253	1.00	430145	67.7	30 - 120	
45 Sc	1	1770472	0.49	2471808	71.6	30 - 120	
72 Ge	1	951401	0.37	1546809	61.5	30 - 120	
115 In	1	3075431	0.58	4577165	67.2	30 - 120	
165 Ho	1	6462582	0.22	8765862	73.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\221_MSD.D\221_MSD.D#
Date Acquired:	Nov 3 2011 08:35 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22038-d-1-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	3402
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	MSD
Dilution Factor:	2.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110211.B\220_MS.D\220_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	20.02	ppb	1.04	19.53	2.48	20	
51	V	72	1	38.74	ppb	1.41	36.84	5.03	20	
52	Cr	72	1	32.84	ppb	0.85	31.07	5.54	20	
55	Mn	72	1	1241.00	ppb	1.17	1196.00	3.69	20	
59	Co	72	1	27.57	ppb	0.49	26.28	4.79	20	
60	Ni	72	1	38.65	ppb	0.88	36.54	5.61	20	
63	Cu	72	1	19.19	ppb	1.36	18.02	6.29	20	
66	Zn	72	1	25.00	ppb	0.11	23.49	6.23	20	
75	As	72	1	29.78	ppb	1.15	28.69	3.73	20	
78	Se	72	1	25.57	ppb	3.43	21.49	17.34	20	
95	Mo	72	1	24.59	ppb	1.59	23.56	4.28	20	
107	Ag	115	1	16.71	ppb	0.88	15.64	6.62	20	
111	Cd	115	1	18.59	ppb	0.47	17.64	5.24	20	
118	Sn	115	1	19.83	ppb	1.07	19.06	3.96	20	
121	Sb	115	1	19.48	ppb	0.94	18.44	5.49	20	
137	Ba	115	1	735.80	ppb	0.98	706.20	4.11	20	
205	Tl	165	1	17.50	ppb	0.49	16.99	2.96	20	
208	Pb	165	1	16.93	ppb	0.74	16.44	2.94	20	
232	Th	165	1	19.66	ppb	0.23	19.23	2.21	20	
238	U	165	1	19.61	ppb	0.42	19.28	1.70	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	290640	0.62	430145	67.6	30 - 120	
45	Sc	1	1802893	0.48	2471808	72.9	30 - 120	
72	Ge	1	964308	0.44	1546809	62.3	30 - 120	
115	In	1	3065484	0.36	4577165	67.0	30 - 120	
165	Ho	1	6428195	0.91	8765862	73.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\222SMPL.D\222SMPL.D#
Date Acquired:	Nov 3 2011 08:38 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22038-d-2-a
Misc Info:	
Vial Number:	3403
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	30.25	3600	
51	V	72	1	27.12	27.12	ppb	0.99	3600	
52	Cr	72	1	11.75	11.75	ppb	1.08	3600	
55	Mn	72	1	2,766.00	2766.00	ppb	0.54	18000	
59	Co	72	1	5.96	5.96	ppb	0.25	3600	
60	Ni	72	1	7.72	7.72	ppb	2.65	3600	
63	Cu	72	1	9.73	9.73	ppb	1.21	3600	
66	Zn	72	1	27.57	27.57	ppb	0.19	3600	
75	As	72	1	6.35	6.35	ppb	0.30	3600	
78	Se	72	1	3.21	3.21	ppb	7.31	3600	
95	Mo	72	1	3.03	3.03	ppb	1.53	3600	
107	Ag	115	1	0.03	0.03	ppb	5.01	3600	
111	Cd	115	1	0.15	0.15	ppb	20.12	3600	
118	Sn	115	1	0.33	0.33	ppb	4.44	3600	
121	Sb	115	1	0.32	0.32	ppb	2.65	3600	
137	Ba	115	1	84.81	84.81	ppb	0.11	3600	
205	Tl	165	1	0.03	0.03	ppb	4.86	3600	
208	Pb	165	1	10.98	10.98	ppb	0.27	3600	
232	Th	165	1	1.10	1.10	ppb	0.81	1000	
238	U	165	1	0.58	0.58	ppb	0.44	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	360825	0.98	430145	83.9	30 - 120	
45	Sc	1	2406761	0.43	2471808	97.4	30 - 120	
72	Ge	1	1376353	0.72	1546809	89.0	30 - 120	
115	In	1	3924661	0.65	4577165	85.7	30 - 120	
165	Ho	1	7568041	0.51	8765862	86.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\223_CCV.D\223_CCV.D#
Date Acquired:	Nov 3 2011 08:41 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 03 2011 08:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.62	ppb	1.54	50	103.2	90 - 110	
51	V	72	1	51.74	ppb	1.72	50	103.5	90 - 110	
52	Cr	72	1	51.58	ppb	1.63	50	103.2	90 - 110	
55	Mn	72	1	51.35	ppb	1.48	50	102.7	90 - 110	
59	Co	72	1	52.10	ppb	1.50	50	104.2	90 - 110	
60	Ni	72	1	50.79	ppb	0.53	50	101.6	90 - 110	
63	Cu	72	1	49.23	ppb	0.67	50	98.5	90 - 110	
66	Zn	72	1	49.23	ppb	1.30	50	98.5	90 - 110	
75	As	72	1	49.68	ppb	1.36	50	99.4	90 - 110	
78	Se	72	1	50.27	ppb	0.99	50	100.5	90 - 110	
95	Mo	72	1	49.22	ppb	1.26	50	98.4	90 - 110	
107	Ag	115	1	50.67	ppb	0.61	50	101.3	90 - 110	
111	Cd	115	1	49.18	ppb	1.39	50	98.4	90 - 110	
118	Sn	115	1	47.53	ppb	1.43	50	95.1	90 - 110	
121	Sb	115	1	46.61	ppb	0.89	50	93.2	90 - 110	
137	Ba	115	1	49.80	ppb	0.89	50	99.6	90 - 110	
205	Tl	165	1	48.75	ppb	0.90	50	97.5	90 - 110	
208	Pb	165	1	47.33	ppb	1.49	50	94.7	90 - 110	
232	Th	165	1	48.12	ppb	1.15	50	96.2	90 - 110	
238	U	165	1	47.39	ppb	0.97	50	94.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	422019	1.04	430145	98.1	30 - 120	
45	Sc	1	2723861	1.34	2471808	110.2	30 - 120	
72	Ge	1	1644924	1.21	1546809	106.3	30 - 120	
115	In	1	4839436	0.61	4577165	105.7	30 - 120	
165	Ho	1	8949613	0.72	8765862	102.1	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\224_CCB.D\224_CCB.D#
Date Acquired:	Nov 3 2011 08:44 am
Operator:	LRD
Sample Name:	CCB-1106802
Misc Info:	
Vial Number:	1305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 03 2011 08:10 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.005	ppb	752.08	1.00	
51	V	72	1	0.010	ppb	231.70	1.00	
52	Cr	72	1	0.014	ppb	46.00	1.00	
55	Mn	72	1	0.108	ppb	10.07	1.00	
59	Co	72	1	0.007	ppb	10.11	1.00	
60	Ni	72	1	0.005	ppb	8.50	1.00	
63	Cu	72	1	0.023	ppb	20.34	1.00	
66	Zn	72	1	-0.012	ppb	130.62	1.00	
75	As	72	1	0.013	ppb	38.94	1.00	
78	Se	72	1	0.526	ppb	44.31	1.00	
95	Mo	72	1	0.003	ppb	168.68	1.00	
107	Ag	115	1	0.007	ppb	22.75	1.00	
111	Cd	115	1	0.007	ppb	20.22	1.00	
118	Sn	115	1	0.026	ppb	43.52	1.00	
121	Sb	115	1	0.014	ppb	22.78	1.00	
137	Ba	115	1	0.028	ppb	27.22	1.00	
205	Tl	165	1	0.016	ppb	4.29	1.00	
208	Pb	165	1	0.007	ppb	17.04	1.00	
232	Th	165	1	0.028	ppb	5.28	1.00	
238	U	165	1	0.010	ppb	7.10	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	438719	0.78	430145	102.0	30 - 120	
45	Sc	1	2801774	0.77	2471808	113.3	30 - 120	
72	Ge	1	1710282	1.11	1546809	110.6	30 - 120	
115	In	1	4950049	0.46	4577165	108.1	30 - 120	
165	Ho	1	9037985	0.56	8765862	103.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\225SMPL.D\225SMPL.D#
Date Acquired:	Nov 3 2011 08:47 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22038-d-3-a
Misc Info:	
Vial Number:	3404
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.11	0.11	ppb	11.27	3600	
51	V	72	1	7.23	7.23	ppb	2.81	3600	
52	Cr	72	1	8.70	8.70	ppb	1.06	3600	
55	Mn	72	1	1,411.00	1411.00	ppb	0.77	18000	
59	Co	72	1	12.34	12.34	ppb	1.62	3600	
60	Ni	72	1	35.78	35.78	ppb	0.32	3600	
63	Cu	72	1	1.07	1.07	ppb	0.43	3600	
66	Zn	72	1	7.41	7.41	ppb	0.52	3600	
75	As	72	1	5.23	5.23	ppb	2.87	3600	
78	Se	72	1	2.80	2.80	ppb	21.39	3600	
95	Mo	72	1	26.24	26.24	ppb	0.75	3600	
107	Ag	115	1	0.05	0.05	ppb	6.13	3600	
111	Cd	115	1	0.38	0.38	ppb	16.99	3600	
118	Sn	115	1	0.45	0.45	ppb	5.48	3600	
121	Sb	115	1	0.26	0.26	ppb	1.15	3600	
137	Ba	115	1	401.80	401.80	ppb	0.66	3600	
205	Tl	165	1	0.02	0.02	ppb	36.41	3600	
208	Pb	165	1	0.04	0.04	ppb	2.12	3600	
232	Th	165	1	0.02	0.02	ppb	13.02	1000	
238	U	165	1	3.70	3.70	ppb	0.84	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	297076	1.24	430145	69.1	30 - 120	
45	Sc	1	1943511	0.87	2471808	78.6	30 - 120	
72	Ge	1	1051640	0.95	1546809	68.0	30 - 120	
115	In	1	3226091	0.70	4577165	70.5	30 - 120	
165	Ho	1	6382227	0.89	8765862	72.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\226SMPL.D\226SMPL.D#
Date Acquired:	Nov 3 2011 08:49 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22038-d-4-a
Misc Info:	
Vial Number:	3405
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.07	0.07	ppb	40.34	3600	
51	V	72	1	2.55	2.55	ppb	1.38	3600	
52	Cr	72	1	0.99	0.99	ppb	3.34	3600	
55	Mn	72	1	5,942.00	5942.00	ppb	0.42	18000	
59	Co	72	1	2.51	2.51	ppb	2.68	3600	
60	Ni	72	1	2.58	2.58	ppb	3.60	3600	
63	Cu	72	1	0.75	0.75	ppb	2.05	3600	
66	Zn	72	1	5.56	5.56	ppb	1.50	3600	
75	As	72	1	2.60	2.60	ppb	0.35	3600	
78	Se	72	1	1.35	1.35	ppb	13.17	3600	
95	Mo	72	1	2.98	2.98	ppb	2.68	3600	
107	Ag	115	1	0.00	0.00	ppb	58.24	3600	
111	Cd	115	1	0.02	0.02	ppb	7.29	3600	
118	Sn	115	1	0.12	0.12	ppb	10.38	3600	
121	Sb	115	1	0.37	0.37	ppb	5.48	3600	
137	Ba	115	1	55.39	55.39	ppb	0.29	3600	
205	Tl	165	1	0.01	0.01	ppb	14.57	3600	
208	Pb	165	1	0.29	0.29	ppb	2.26	3600	
232	Th	165	1	0.09	0.09	ppb	5.84	1000	
238	U	165	1	0.23	0.23	ppb	1.45	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	358961	0.69	430145	83.5	30 - 120	
45	Sc	1	2345883	0.34	2471808	94.9	30 - 120	
72	Ge	1	1377341	0.85	1546809	89.0	30 - 120	
115	In	1	3996330	0.44	4577165	87.3	30 - 120	
165	Ho	1	7586504	0.29	8765862	86.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\227SMPL.D\227SMPL.D#
Date Acquired: Nov 3 2011 08:52 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22038-d-5-a
Misc Info:
Vial Number: 3406
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 08:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.08	0.08	ppb	37.23	3600	
51	V	72	1	11.43	11.43	ppb	1.97	3600	
52	Cr	72	1	24.13	24.13	ppb	1.77	3600	
55	Mn	72	1	3,281.00	3281.00	ppb	0.84	18000	
59	Co	72	1	65.50	65.50	ppb	0.66	3600	
60	Ni	72	1	138.80	138.80	ppb	0.47	3600	
63	Cu	72	1	28.41	28.41	ppb	0.80	3600	
66	Zn	72	1	64.06	64.06	ppb	0.51	3600	
75	As	72	1	8.15	8.15	ppb	2.59	3600	
78	Se	72	1	6.09	6.09	ppb	3.65	3600	
95	Mo	72	1	13.57	13.57	ppb	0.96	3600	
107	Ag	115	1	0.05	0.05	ppb	0.54	3600	
111	Cd	115	1	1.78	1.78	ppb	6.42	3600	
118	Sn	115	1	1.01	1.01	ppb	5.29	3600	
121	Sb	115	1	2.30	2.30	ppb	0.74	3600	
137	Ba	115	1	99.10	99.10	ppb	1.00	3600	
205	Tl	165	1	0.01	0.01	ppb	18.08	3600	
208	Pb	165	1	0.09	0.09	ppb	0.12	3600	
232	Th	165	1	0.03	0.03	ppb	6.70	1000	
238	U	165	1	6.60	6.60	ppb	1.23	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	246546	1.01	430145	57.3	30 - 120	
45	Sc	1	1634898	1.24	2471808	66.1	30 - 120	
72	Ge	1	838190	1.95	1546809	54.2	30 - 120	
115	In	1	2685140	1.40	4577165	58.7	30 - 120	
165	Ho	1	5606465	0.56	8765862	64.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\228SMPL.D\228SMPL.D#
Date Acquired:	Nov 3 2011 08:55 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22038-d-6-a
Misc Info:	
Vial Number:	3407
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.05	0.05	ppb	55.71	3600	
51	V	72	1	1.68	1.68	ppb	2.16	3600	
52	Cr	72	1	0.35	0.35	ppb	6.20	3600	
55	Mn	72	1	8,078.00	8078.00	ppb	0.42	18000	
59	Co	72	1	24.24	24.24	ppb	0.28	3600	
60	Ni	72	1	19.35	19.35	ppb	0.26	3600	
63	Cu	72	1	0.31	0.31	ppb	2.72	3600	
66	Zn	72	1	4.81	4.81	ppb	1.40	3600	
75	As	72	1	8.52	8.52	ppb	0.91	3600	
78	Se	72	1	1.81	1.81	ppb	12.53	3600	
95	Mo	72	1	0.29	0.29	ppb	8.52	3600	
107	Ag	115	1	0.00	0.00	ppb	30.22	3600	
111	Cd	115	1	0.04	0.04	ppb	10.80	3600	
118	Sn	115	1	0.12	0.12	ppb	5.27	3600	
121	Sb	115	1	0.05	0.05	ppb	4.70	3600	
137	Ba	115	1	117.30	117.30	ppb	0.46	3600	
205	Tl	165	1	0.01	0.01	ppb	10.93	3600	
208	Pb	165	1	0.05	0.05	ppb	3.72	3600	
232	Th	165	1	0.00	0.00	ppb	83.62	1000	
238	U	165	1	0.02	0.02	ppb	5.10	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	397848	0.15	430145	92.5	30 - 120	
45	Sc	1	2575815	1.19	2471808	104.2	30 - 120	
72	Ge	1	1521805	0.84	1546809	98.4	30 - 120	
115	In	1	4387938	0.74	4577165	95.9	30 - 120	
165	Ho	1	8396325	0.89	8765862	95.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\229SMPL.D\229SMPL.D#
Date Acquired:	Nov 3 2011 08:58 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22038-d-7-a
Misc Info:	
Vial Number:	3408
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.10	0.10	ppb	29.98	3600	
51	V	72	1	73.31	73.31	ppb	0.82	3600	
52	Cr	72	1	40.84	40.84	ppb	0.47	3600	
55	Mn	72	1	2,661.00	2661.00	ppb	0.87	18000	
59	Co	72	1	14.05	14.05	ppb	1.73	3600	
60	Ni	72	1	53.23	53.23	ppb	0.59	3600	
63	Cu	72	1	0.96	0.96	ppb	3.02	3600	
66	Zn	72	1	5.77	5.77	ppb	2.07	3600	
75	As	72	1	33.77	33.77	ppb	1.05	3600	
78	Se	72	1	4.90	4.90	ppb	10.24	3600	
95	Mo	72	1	2.73	2.73	ppb	3.31	3600	
107	Ag	115	1	0.11	0.11	ppb	7.31	3600	
111	Cd	115	1	0.96	0.96	ppb	3.40	3600	
118	Sn	115	1	1.44	1.44	ppb	3.35	3600	
121	Sb	115	1	0.41	0.41	ppb	5.52	3600	
137	Ba	115	1	1,366.00	1366.00	ppb	0.60	3600	
205	Tl	165	1	0.01	0.01	ppb	8.39	3600	
208	Pb	165	1	0.08	0.08	ppb	1.05	3600	
232	Th	165	1	0.02	0.02	ppb	5.88	1000	
238	U	165	1	0.25	0.25	ppb	2.83	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	237942	1.43	430145	55.3	30 - 120	
45	Sc	1	1682984	2.13	2471808	68.1	30 - 120	
72	Ge	1	840273	1.50	1546809	54.3	30 - 120	
115	In	1	2697864	1.10	4577165	58.9	30 - 120	
165	Ho	1	5597043	0.75	8765862	63.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\230SMPL.D\230SMPL.D#
Date Acquired: Nov 3 2011 09:01 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22038-d-8-a
Misc Info:
Vial Number: 3409
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 08:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	13226.00	3600	
51	V	72	1	-0.01	-0.01	ppb	130.42	3600	
52	Cr	72	1	0.06	0.06	ppb	15.27	3600	
55	Mn	72	1	0.52	0.52	ppb	2.88	18000	
59	Co	72	1	0.00	0.00	ppb	23.71	3600	
60	Ni	72	1	0.06	0.06	ppb	5.00	3600	
63	Cu	72	1	0.13	0.13	ppb	13.13	3600	
66	Zn	72	1	1.71	1.71	ppb	0.97	3600	
75	As	72	1	0.03	0.03	ppb	19.83	3600	
78	Se	72	1	2.51	2.51	ppb	1.40	3600	
95	Mo	72	1	0.03	0.03	ppb	31.37	3600	
107	Ag	115	1	0.00	0.00	ppb	123.82	3600	
111	Cd	115	1	0.00	0.00	ppb	152.14	3600	
118	Sn	115	1	0.03	0.03	ppb	8.49	3600	
121	Sb	115	1	0.01	0.01	ppb	6.86	3600	
137	Ba	115	1	0.22	0.22	ppb	5.93	3600	
205	Tl	165	1	0.00	0.00	ppb	26.83	3600	
208	Pb	165	1	0.02	0.02	ppb	2.86	3600	
232	Th	165	1	0.00	0.00	ppb	59.36	1000	
238	U	165	1	0.00	0.00	ppb	20.05	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	432937	0.27	430145	100.6	30 - 120	
45	Sc	1	2922360	0.88	2471808	118.2	30 - 120	
72	Ge	1	1779079	1.86	1546809	115.0	30 - 120	
115	In	1	5054637	0.23	4577165	110.4	30 - 120	
165	Ho	1	9283102	0.60	8765862	105.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\231SMPL.D\231SMPL.D#
Date Acquired:	Nov 3 2011 09:04 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22038-d-9-a
Misc Info:	
Vial Number:	3410
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.07	0.07	ppb	64.90	3600	
51	V	72	1	7.01	7.01	ppb	0.29	3600	
52	Cr	72	1	1.88	1.88	ppb	0.24	3600	
55	Mn	72	1	12,040.00	12040.00	ppb	0.58	18000	
59	Co	72	1	14.36	14.36	ppb	0.13	3600	
60	Ni	72	1	4.83	4.83	ppb	0.48	3600	
63	Cu	72	1	2.32	2.32	ppb	0.28	3600	
66	Zn	72	1	9.08	9.08	ppb	0.64	3600	
75	As	72	1	7.91	7.91	ppb	1.78	3600	
78	Se	72	1	2.39	2.39	ppb	3.30	3600	
95	Mo	72	1	0.28	0.28	ppb	2.75	3600	
107	Ag	115	1	0.01	0.01	ppb	13.41	3600	
111	Cd	115	1	0.04	0.04	ppb	51.66	3600	
118	Sn	115	1	0.11	0.11	ppb	12.34	3600	
121	Sb	115	1	0.11	0.11	ppb	2.34	3600	
137	Ba	115	1	137.50	137.50	ppb	0.53	3600	
205	Tl	165	1	0.01	0.01	ppb	9.44	3600	
208	Pb	165	1	1.75	1.75	ppb	0.35	3600	
232	Th	165	1	0.21	0.21	ppb	1.54	1000	
238	U	165	1	0.07	0.07	ppb	1.03	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	407800	0.81	430145	94.8	30 - 120	
45	Sc	1	2730908	0.46	2471808	110.5	30 - 120	
72	Ge	1	1606570	0.74	1546809	103.9	30 - 120	
115	In	1	4561652	0.46	4577165	99.7	30 - 120	
165	Ho	1	8503939	0.95	8765862	97.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\232SMPL.D\232SMPL.D#
Date Acquired: Nov 3 2011 09:07 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22038-d-10-a
Misc Info:
Vial Number: 3411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 08:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	195.10	3600	
51	V	72	1	1.90	1.90	ppb	3.62	3600	
52	Cr	72	1	0.37	0.37	ppb	5.13	3600	
55	Mn	72	1	11,000.00	11000.00	ppb	0.55	18000	
59	Co	72	1	12.85	12.85	ppb	0.91	3600	
60	Ni	72	1	4.11	4.11	ppb	0.62	3600	
63	Cu	72	1	0.46	0.46	ppb	6.26	3600	
66	Zn	72	1	2.77	2.77	ppb	1.03	3600	
75	As	72	1	5.90	5.90	ppb	2.49	3600	
78	Se	72	1	1.90	1.90	ppb	26.54	3600	
95	Mo	72	1	0.23	0.23	ppb	3.36	3600	
107	Ag	115	1	0.00	0.00	ppb	54.95	3600	
111	Cd	115	1	0.03	0.03	ppb	36.93	3600	
118	Sn	115	1	0.03	0.03	ppb	11.77	3600	
121	Sb	115	1	0.04	0.04	ppb	9.00	3600	
137	Ba	115	1	108.20	108.20	ppb	1.33	3600	
205	Tl	165	1	0.01	0.01	ppb	3.96	3600	
208	Pb	165	1	0.13	0.13	ppb	1.92	3600	
232	Th	165	1	0.01	0.01	ppb	6.49	1000	
238	U	165	1	0.02	0.02	ppb	1.00	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	417944	1.02	430145	97.2	30 - 120	
45	Sc	1	2713313	0.83	2471808	109.8	30 - 120	
72	Ge	1	1605523	0.23	1546809	103.8	30 - 120	
115	In	1	4570507	0.88	4577165	99.9	30 - 120	
165	Ho	1	8574627	0.83	8765862	97.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\233_CCV.D\233_CCV.D#
Date Acquired:	Nov 3 2011 09:10 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 03 2011 08:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.41	ppb	3.18	50	98.8	90 - 110	
51	V	72	1	52.15	ppb	2.13	50	104.3	90 - 110	
52	Cr	72	1	52.04	ppb	2.41	50	104.1	90 - 110	
55	Mn	72	1	52.02	ppb	1.64	50	104.0	90 - 110	
59	Co	72	1	52.23	ppb	1.34	50	104.5	90 - 110	
60	Ni	72	1	51.00	ppb	0.88	50	102.0	90 - 110	
63	Cu	72	1	50.81	ppb	1.79	50	101.6	90 - 110	
66	Zn	72	1	49.10	ppb	0.75	50	98.2	90 - 110	
75	As	72	1	50.00	ppb	0.73	50	100.0	90 - 110	
78	Se	72	1	51.15	ppb	2.07	50	102.3	90 - 110	
95	Mo	72	1	48.90	ppb	0.74	50	97.8	90 - 110	
107	Ag	115	1	51.25	ppb	1.22	50	102.5	90 - 110	
111	Cd	115	1	50.21	ppb	0.61	50	100.4	90 - 110	
118	Sn	115	1	48.32	ppb	1.33	50	96.6	90 - 110	
121	Sb	115	1	46.90	ppb	0.81	50	93.8	90 - 110	
137	Ba	115	1	50.16	ppb	0.77	50	100.3	90 - 110	
205	Tl	165	1	48.85	ppb	0.75	50	97.7	90 - 110	
208	Pb	165	1	47.31	ppb	0.50	50	94.6	90 - 110	
232	Th	165	1	47.06	ppb	0.67	50	94.1	90 - 110	
238	U	165	1	46.74	ppb	1.07	50	93.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	446816	0.73	430145	103.9	30 - 120	
45	Sc	1	2908093	1.44	2471808	117.7	30 - 120	
72	Ge	1	1741856	0.87	1546809	112.6	30 - 120	
115	In	1	5011669	0.47	4577165	109.5	30 - 120	
165	Ho	1	9145510	0.66	8765862	104.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\234_CCB.D\234_CCB.D#
Date Acquired:	Nov 3 2011 09:13 am
Operator:	LRD
Sample Name:	CCB-1106802
Misc Info:	
Vial Number:	1305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 03 2011 08:10 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.001	ppb	1882.60	1.00	
51	V	72	1	0.008	ppb	79.28	1.00	
52	Cr	72	1	0.014	ppb	46.76	1.00	
55	Mn	72	1	0.455	ppb	8.36	1.00	
59	Co	72	1	0.006	ppb	33.91	1.00	
60	Ni	72	1	0.006	ppb	59.00	1.00	
63	Cu	72	1	0.038	ppb	26.92	1.00	
66	Zn	72	1	-0.004	ppb	359.33	1.00	
75	As	72	1	0.029	ppb	22.96	1.00	
78	Se	72	1	0.765	ppb	44.76	1.00	
95	Mo	72	1	0.004	ppb	234.65	1.00	
107	Ag	115	1	0.006	ppb	19.89	1.00	
111	Cd	115	1	0.007	ppb	119.36	1.00	
118	Sn	115	1	0.026	ppb	13.03	1.00	
121	Sb	115	1	0.010	ppb	17.18	1.00	
137	Ba	115	1	0.032	ppb	13.39	1.00	
205	Tl	165	1	0.013	ppb	22.36	1.00	
208	Pb	165	1	0.007	ppb	8.96	1.00	
232	Th	165	1	0.026	ppb	5.75	1.00	
238	U	165	1	0.008	ppb	14.89	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	455418	0.86	430145	105.9	30 - 120	
45	Sc	1	2950836	0.99	2471808	119.4	30 - 120	
72	Ge	1	1794109	0.70	1546809	116.0	30 - 120	
115	In	1	5089420	0.67	4577165	111.2	30 - 120	
165	Ho	1	9130766	1.56	8765862	104.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\235SMPL.D\235SMPL.D#
Date Acquired: Nov 3 2011 09:16 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22078-c-1-a
Misc Info:
Vial Number: 3412
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 08:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	-0.01	-0.01	ppb	298.83	3600	
51	V	72	1	7.12	7.12	ppb	1.55	3600	
52	Cr	72	1	0.86	0.86	ppb	2.30	3600	
55	Mn	72	1	2.61	2.61	ppb	1.63	18000	
59	Co	72	1	0.16	0.16	ppb	2.73	3600	
60	Ni	72	1	0.62	0.62	ppb	1.04	3600	
63	Cu	72	1	1.79	1.79	ppb	2.51	3600	
66	Zn	72	1	5.14	5.14	ppb	0.68	3600	
75	As	72	1	0.74	0.74	ppb	1.48	3600	
78	Se	72	1	1.91	1.91	ppb	17.84	3600	
95	Mo	72	1	0.99	0.99	ppb	5.96	3600	
107	Ag	115	1	0.00	0.00	ppb	6.20	3600	
111	Cd	115	1	0.03	0.03	ppb	9.71	3600	
118	Sn	115	1	0.05	0.05	ppb	6.81	3600	
121	Sb	115	1	0.31	0.31	ppb	4.32	3600	
137	Ba	115	1	6.93	6.93	ppb	1.97	3600	
205	Tl	165	1	0.02	0.02	ppb	6.14	3600	
208	Pb	165	1	0.17	0.17	ppb	2.16	3600	
232	Th	165	1	0.06	0.06	ppb	10.36	1000	
238	U	165	1	0.66	0.66	ppb	0.86	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	445708	1.46	430145	103.6	30 - 120	
45	Sc	1	2843676	0.52	2471808	115.0	30 - 120	
72	Ge	1	1691062	0.29	1546809	109.3	30 - 120	
115	In	1	4846365	1.61	4577165	105.9	30 - 120	
165	Ho	1	8914445	0.47	8765862	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\236SMPL.D\236SMPL.D#
Date Acquired:	Nov 3 2011 09:19 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22078-c-2-a
Misc Info:	
Vial Number:	3501
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.18	0.18	ppb	22.77	3600	
51	V	72	1	0.33	0.33	ppb	0.91	3600	
52	Cr	72	1	0.23	0.23	ppb	4.91	3600	
55	Mn	72	1	2.23	2.23	ppb	1.75	18000	
59	Co	72	1	0.22	0.22	ppb	4.15	3600	
60	Ni	72	1	0.29	0.29	ppb	10.28	3600	
63	Cu	72	1	0.21	0.21	ppb	9.68	3600	
66	Zn	72	1	4.57	4.57	ppb	1.03	3600	
75	As	72	1	0.22	0.22	ppb	2.89	3600	
78	Se	72	1	0.46	0.46	ppb	59.12	3600	
95	Mo	72	1	0.02	0.02	ppb	55.65	3600	
107	Ag	115	1	0.00	0.00	ppb	233.84	3600	
111	Cd	115	1	0.01	0.01	ppb	75.73	3600	
118	Sn	115	1	0.05	0.05	ppb	8.54	3600	
121	Sb	115	1	0.01	0.01	ppb	8.70	3600	
137	Ba	115	1	63.01	63.01	ppb	1.31	3600	
205	Tl	165	1	0.04	0.04	ppb	3.72	3600	
208	Pb	165	1	0.05	0.05	ppb	6.38	3600	
232	Th	165	1	0.01	0.01	ppb	8.36	1000	
238	U	165	1	0.07	0.07	ppb	2.85	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	444628	1.07	430145	103.4	30 - 120	
45	Sc	1	2855004	1.20	2471808	115.5	30 - 120	
72	Ge	1	1714008	1.01	1546809	110.8	30 - 120	
115	In	1	4887304	0.67	4577165	106.8	30 - 120	
165	Ho	1	8957918	0.54	8765862	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\237SMPL.D\237SMPL.D#
Date Acquired:	Nov 3 2011 09:22 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22078-c-3-a
Misc Info:	
Vial Number:	3502
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	-0.01	-0.01	ppb	295.71	3600	
51	V	72	1	3.65	3.65	ppb	10.24	3600	
52	Cr	72	1	1.57	1.57	ppb	11.06	3600	
55	Mn	72	1	58.52	58.52	ppb	8.38	18000	
59	Co	72	1	0.45	0.45	ppb	6.48	3600	
60	Ni	72	1	1.15	1.15	ppb	6.62	3600	
63	Cu	72	1	1.51	1.51	ppb	7.88	3600	
66	Zn	72	1	5.01	5.01	ppb	8.99	3600	
75	As	72	1	4.80	4.80	ppb	8.03	3600	
78	Se	72	1	2.41	2.41	ppb	18.87	3600	
95	Mo	72	1	1.62	1.62	ppb	7.65	3600	
107	Ag	115	1	0.00	0.00	ppb	14.24	3600	
111	Cd	115	1	0.03	0.03	ppb	52.47	3600	
118	Sn	115	1	0.09	0.09	ppb	4.74	3600	
121	Sb	115	1	0.38	0.38	ppb	9.26	3600	
137	Ba	115	1	15.52	15.52	ppb	6.30	3600	
205	Tl	165	1	0.08	0.08	ppb	6.52	3600	
208	Pb	165	1	0.28	0.28	ppb	7.62	3600	
232	Th	165	1	0.13	0.13	ppb	10.51	1000	
238	U	165	1	0.29	0.29	ppb	7.44	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	432036	6.45	430145	100.4	30 - 120	
45	Sc	1	2702241	7.34	2471808	109.3	30 - 120	
72	Ge	1	1605891	6.76	1546809	103.8	30 - 120	
115	In	1	4569006	5.55	4577165	99.8	30 - 120	
165	Ho	1	8548108	7.32	8765862	97.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\238SMPL.D\238SMPL.D#
Date Acquired: Nov 3 2011 09:25 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22078-c-4-a
Misc Info:
Vial Number: 3503
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 08:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.11	0.11	ppb	20.27	3600	
51	V	72	1	0.97	0.97	ppb	3.32	3600	
52	Cr	72	1	0.39	0.39	ppb	5.12	3600	
55	Mn	72	1	1.69	1.69	ppb	3.40	18000	
59	Co	72	1	0.25	0.25	ppb	4.79	3600	
60	Ni	72	1	0.39	0.39	ppb	3.84	3600	
63	Cu	72	1	0.40	0.40	ppb	2.32	3600	
66	Zn	72	1	2.45	2.45	ppb	0.87	3600	
75	As	72	1	0.24	0.24	ppb	8.49	3600	
78	Se	72	1	0.90	0.90	ppb	50.99	3600	
95	Mo	72	1	0.02	0.02	ppb	27.81	3600	
107	Ag	115	1	0.00	0.00	ppb	159.54	3600	
111	Cd	115	1	0.01	0.01	ppb	146.37	3600	
118	Sn	115	1	0.03	0.03	ppb	41.83	3600	
121	Sb	115	1	0.02	0.02	ppb	9.43	3600	
137	Ba	115	1	32.47	32.47	ppb	0.60	3600	
205	Tl	165	1	0.02	0.02	ppb	11.81	3600	
208	Pb	165	1	0.06	0.06	ppb	3.51	3600	
232	Th	165	1	0.03	0.03	ppb	11.48	1000	
238	U	165	1	0.17	0.17	ppb	1.27	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	439277	1.09	430145	102.1	30 - 120	
45	Sc	1	2808281	0.39	2471808	113.6	30 - 120	
72	Ge	1	1688986	0.50	1546809	109.2	30 - 120	
115	In	1	4835647	0.96	4577165	105.6	30 - 120	
165	Ho	1	8910969	0.12	8765862	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\239SMPL.D\239SMPL.D#
Date Acquired:	Nov 3 2011 09:28 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22078-c-5-a
Misc Info:	
Vial Number:	3504
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.09	0.09	ppb	28.25	3600	
51	V	72	1	0.69	0.69	ppb	2.53	3600	
52	Cr	72	1	0.45	0.45	ppb	2.26	3600	
55	Mn	72	1	1.98	1.98	ppb	1.51	18000	
59	Co	72	1	0.17	0.17	ppb	2.17	3600	
60	Ni	72	1	0.35	0.35	ppb	15.85	3600	
63	Cu	72	1	0.41	0.41	ppb	2.92	3600	
66	Zn	72	1	2.69	2.69	ppb	0.54	3600	
75	As	72	1	0.17	0.17	ppb	2.33	3600	
78	Se	72	1	0.60	0.60	ppb	37.22	3600	
95	Mo	72	1	0.01	0.01	ppb	32.33	3600	
107	Ag	115	1	0.00	0.00	ppb	548.47	3600	
111	Cd	115	1	0.03	0.03	ppb	12.16	3600	
118	Sn	115	1	0.05	0.05	ppb	17.07	3600	
121	Sb	115	1	0.01	0.01	ppb	20.94	3600	
137	Ba	115	1	22.54	22.54	ppb	0.92	3600	
205	Tl	165	1	0.01	0.01	ppb	6.23	3600	
208	Pb	165	1	0.06	0.06	ppb	3.45	3600	
232	Th	165	1	0.07	0.07	ppb	3.76	1000	
238	U	165	1	0.23	0.23	ppb	1.00	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	445464	0.62	430145	103.6	30 - 120	
45	Sc	1	2856382	1.13	2471808	115.6	30 - 120	
72	Ge	1	1706747	1.52	1546809	110.3	30 - 120	
115	In	1	4818953	0.88	4577165	105.3	30 - 120	
165	Ho	1	9067800	0.70	8765862	103.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\240SMPL.D\240SMPL.D#
Date Acquired:	Nov 3 2011 09:30 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22078-c-6-a
Misc Info:	
Vial Number:	3505
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 03 2011 08:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	0.86	3600	
51	V	72	1	0.56	0.56	ppb	3.07	3600	
52	Cr	72	1	0.46	0.46	ppb	0.52	3600	
55	Mn	72	1	0.56	0.56	ppb	3.39	18000	
59	Co	72	1	0.11	0.11	ppb	7.24	3600	
60	Ni	72	1	0.16	0.16	ppb	11.61	3600	
63	Cu	72	1	0.27	0.27	ppb	3.79	3600	
66	Zn	72	1	2.28	2.28	ppb	1.92	3600	
75	As	72	1	0.15	0.15	ppb	4.52	3600	
78	Se	72	1	0.49	0.49	ppb	34.93	3600	
95	Mo	72	1	0.04	0.04	ppb	15.38	3600	
107	Ag	115	1	0.00	0.00	ppb	372.22	3600	
111	Cd	115	1	0.01	0.01	ppb	68.14	3600	
118	Sn	115	1	0.03	0.03	ppb	27.85	3600	
121	Sb	115	1	0.01	0.01	ppb	10.85	3600	
137	Ba	115	1	7.52	7.52	ppb	0.78	3600	
205	Tl	165	1	0.01	0.01	ppb	13.50	3600	
208	Pb	165	1	0.12	0.12	ppb	0.89	3600	
232	Th	165	1	0.06	0.06	ppb	4.59	1000	
238	U	165	1	0.29	0.29	ppb	1.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	444999	0.56	430145	103.5	30 - 120	
45	Sc	1	2837602	1.51	2471808	114.8	30 - 120	
72	Ge	1	1690983	0.93	1546809	109.3	30 - 120	
115	In	1	4890920	1.35	4577165	106.9	30 - 120	
165	Ho	1	8977509	1.06	8765862	102.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\241SMPL.D\241SMPL.D#
Date Acquired: Nov 3 2011 09:33 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22078-c-7-a
Misc Info:
Vial Number: 3506
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 08:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	88.69	3600	
51	V	72	1	0.55	0.55	ppb	4.51	3600	
52	Cr	72	1	0.42	0.42	ppb	1.85	3600	
55	Mn	72	1	0.56	0.56	ppb	4.57	18000	
59	Co	72	1	0.11	0.11	ppb	4.77	3600	
60	Ni	72	1	0.18	0.18	ppb	7.00	3600	
63	Cu	72	1	0.39	0.39	ppb	3.52	3600	
66	Zn	72	1	2.26	2.26	ppb	1.21	3600	
75	As	72	1	0.18	0.18	ppb	9.02	3600	
78	Se	72	1	0.56	0.56	ppb	43.84	3600	
95	Mo	72	1	0.04	0.04	ppb	12.94	3600	
107	Ag	115	1	0.00	0.00	ppb	57.68	3600	
111	Cd	115	1	0.01	0.01	ppb	37.98	3600	
118	Sn	115	1	0.03	0.03	ppb	6.64	3600	
121	Sb	115	1	0.01	0.01	ppb	16.58	3600	
137	Ba	115	1	7.50	7.50	ppb	1.13	3600	
205	Tl	165	1	0.01	0.01	ppb	2.11	3600	
208	Pb	165	1	0.11	0.11	ppb	0.37	3600	
232	Th	165	1	0.06	0.06	ppb	4.50	1000	
238	U	165	1	0.29	0.29	ppb	2.37	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	447323	0.55	430145	104.0	30 - 120	
45	Sc	1	2806172	1.44	2471808	113.5	30 - 120	
72	Ge	1	1683548	0.52	1546809	108.8	30 - 120	
115	In	1	4845851	0.44	4577165	105.9	30 - 120	
165	Ho	1	9058052	0.60	8765862	103.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\242SMPL.D\242SMPL.D#
Date Acquired: Nov 3 2011 09:36 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22078-c-8-a
Misc Info:
Vial Number: 3507
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 08:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.06	0.06	ppb	57.62	3600	
51 V	72	1	0.47	0.47	ppb	1.59	3600	
52 Cr	72	1	0.43	0.43	ppb	1.20	3600	
55 Mn	72	1	0.62	0.62	ppb	3.22	18000	
59 Co	72	1	0.07	0.07	ppb	2.78	3600	
60 Ni	72	1	0.17	0.17	ppb	3.05	3600	
63 Cu	72	1	0.15	0.15	ppb	5.85	3600	
66 Zn	72	1	2.79	2.79	ppb	2.27	3600	
75 As	72	1	0.11	0.11	ppb	7.60	3600	
78 Se	72	1	0.52	0.52	ppb	3.18	3600	
95 Mo	72	1	0.01	0.01	ppb	102.94	3600	
107 Ag	115	1	0.00	0.00	ppb	62.98	3600	
111 Cd	115	1	0.01	0.01	ppb	33.16	3600	
118 Sn	115	1	0.08	0.08	ppb	2.55	3600	
121 Sb	115	1	0.01	0.01	ppb	13.12	3600	
137 Ba	115	1	8.36	8.36	ppb	1.79	3600	
205 Tl	165	1	0.01	0.01	ppb	16.51	3600	
208 Pb	165	1	0.02	0.02	ppb	5.00	3600	
232 Th	165	1	0.03	0.03	ppb	4.10	1000	
238 U	165	1	0.09	0.09	ppb	0.52	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	441732	0.90	430145	102.7	30 - 120	
45 Sc	1	2767524	1.41	2471808	112.0	30 - 120	
72 Ge	1	1671763	1.67	1546809	108.1	30 - 120	
115 In	1	4840517	1.57	4577165	105.8	30 - 120	
165 Ho	1	8958500	0.89	8765862	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\243SMPL.D\243SMPL.D#	
Date Acquired:	Nov 3 2011 09:39 am	
Acq. Method:	NormISIS.M	**QC Summary:**
Operator:	LRD	**Analytes: Pass**
Sample Name:	280-22078-c-9-a	**ISTD: Pass**
Misc Info:		
Vial Number:	3508	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 03 2011 08:10 am	
Sample Type:	SA	
Dilution Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	-0.02	-0.02	ppb	0.00	3600	
51	V	72	1	0.01	0.01	ppb	163.29	3600	
52	Cr	72	1	0.03	0.03	ppb	19.92	3600	
55	Mn	72	1	0.25	0.25	ppb	8.08	18000	
59	Co	72	1	0.00	0.00	ppb	67.20	3600	
60	Ni	72	1	0.06	0.06	ppb	21.06	3600	
63	Cu	72	1	0.10	0.10	ppb	13.67	3600	
66	Zn	72	1	1.32	1.32	ppb	4.11	3600	
75	As	72	1	0.01	0.01	ppb	156.64	3600	
78	Se	72	1	0.32	0.32	ppb	60.25	3600	
95	Mo	72	1	-0.01	-0.01	ppb	20.28	3600	
107	Ag	115	1	0.00	0.00	ppb	100.77	3600	
111	Cd	115	1	0.00	0.00	ppb	108.55	3600	
118	Sn	115	1	0.04	0.04	ppb	9.52	3600	
121	Sb	115	1	0.00	0.00	ppb	39.26	3600	
137	Ba	115	1	0.06	0.06	ppb	10.43	3600	
205	Tl	165	1	0.00	0.00	ppb	52.01	3600	
208	Pb	165	1	0.02	0.02	ppb	2.29	3600	
232	Th	165	1	0.00	0.00	ppb	65.30	1000	
238	U	165	1	0.00	0.00	ppb	59.00	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	438373	0.53	430145	101.9	30 - 120	
45	Sc	1	2802850	0.85	2471808	113.4	30 - 120	
72	Ge	1	1699482	1.33	1546809	109.9	30 - 120	
115	In	1	4918421	1.55	4577165	107.5	30 - 120	
165	Ho	1	8994180	0.42	8765862	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\244_CCV.D\244_CCV.D#
Date Acquired:	Nov 3 2011 09:42 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 03 2011 08:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.55	ppb	1.66	50	99.1	90 - 110	
51	V	72	1	51.60	ppb	2.52	50	103.2	90 - 110	
52	Cr	72	1	50.79	ppb	1.37	50	101.6	90 - 110	
55	Mn	72	1	51.08	ppb	1.23	50	102.2	90 - 110	
59	Co	72	1	51.25	ppb	1.72	50	102.5	90 - 110	
60	Ni	72	1	50.18	ppb	1.40	50	100.4	90 - 110	
63	Cu	72	1	48.89	ppb	1.17	50	97.8	90 - 110	
66	Zn	72	1	48.63	ppb	1.55	50	97.3	90 - 110	
75	As	72	1	49.32	ppb	0.93	50	98.6	90 - 110	
78	Se	72	1	51.64	ppb	5.53	50	103.3	90 - 110	
95	Mo	72	1	48.26	ppb	1.62	50	96.5	90 - 110	
107	Ag	115	1	50.75	ppb	0.90	50	101.5	90 - 110	
111	Cd	115	1	49.46	ppb	0.38	50	98.9	90 - 110	
118	Sn	115	1	47.47	ppb	0.55	50	94.9	90 - 110	
121	Sb	115	1	46.52	ppb	0.87	50	93.0	90 - 110	
137	Ba	115	1	49.79	ppb	0.59	50	99.6	90 - 110	
205	Tl	165	1	49.20	ppb	0.94	50	98.4	90 - 110	
208	Pb	165	1	47.58	ppb	0.38	50	95.2	90 - 110	
232	Th	165	1	47.51	ppb	0.23	50	95.0	90 - 110	
238	U	165	1	47.39	ppb	0.98	50	94.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	434233	1.05	430145	101.0	30 - 120	
45	Sc	1	2760193	1.56	2471808	111.7	30 - 120	
72	Ge	1	1684639	1.47	1546809	108.9	30 - 120	
115	In	1	4903195	1.15	4577165	107.1	30 - 120	
165	Ho	1	8941984	0.54	8765862	102.0	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\245_CCB.D\245_CCB.D#
Date Acquired:	Nov 3 2011 09:45 am
Operator:	LRD
Sample Name:	CCB-1106802
Misc Info:	
Vial Number:	1305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 03 2011 08:10 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	233250.00	1.00	
51	V	72	1	-0.011	ppb	137.63	1.00	
52	Cr	72	1	0.012	ppb	18.67	1.00	
55	Mn	72	1	0.118	ppb	5.21	1.00	
59	Co	72	1	0.006	ppb	8.76	1.00	
60	Ni	72	1	0.012	ppb	41.93	1.00	
63	Cu	72	1	0.036	ppb	21.58	1.00	
66	Zn	72	1	0.037	ppb	19.13	1.00	
75	As	72	1	0.010	ppb	55.39	1.00	
78	Se	72	1	0.409	ppb	36.82	1.00	
95	Mo	72	1	0.004	ppb	290.37	1.00	
107	Ag	115	1	0.008	ppb	3.04	1.00	
111	Cd	115	1	0.004	ppb	66.30	1.00	
118	Sn	115	1	0.024	ppb	39.08	1.00	
121	Sb	115	1	0.012	ppb	9.94	1.00	
137	Ba	115	1	0.010	ppb	42.00	1.00	
205	Tl	165	1	0.018	ppb	12.89	1.00	
208	Pb	165	1	0.007	ppb	15.95	1.00	
232	Th	165	1	0.047	ppb	3.67	1.00	
238	U	165	1	0.009	ppb	9.62	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	432285	0.79	430145	100.5	30 - 120	
45	Sc	1	2781849	0.88	2471808	112.5	30 - 120	
72	Ge	1	1679707	0.54	1546809	108.6	30 - 120	
115	In	1	4863242	1.27	4577165	106.3	30 - 120	
165	Ho	1	8913220	0.48	8765862	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110211.B\246SMPL.D\246SMPL.D#
Date Acquired: Nov 3 2011 09:48 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21223-i-1-a
Misc Info:
Vial Number: 4501
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 03 2011 08:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	78.54	3600	
51	V	72	1	0.53	0.53	ppb	13.96	3600	
52	Cr	72	1	8.93	8.93	ppb	0.93	3600	
55	Mn	72	1	14.64	14.64	ppb	0.57	18000	
59	Co	72	1	0.35	0.35	ppb	2.52	3600	
60	Ni	72	1	2.04	2.04	ppb	3.83	3600	
63	Cu	72	1	3.58	3.58	ppb	1.61	3600	
66	Zn	72	1	23.82	23.82	ppb	2.18	3600	
75	As	72	1	0.20	0.20	ppb	6.07	3600	
78	Se	72	1	0.26	0.26	ppb	74.98	3600	
95	Mo	72	1	0.38	0.38	ppb	3.55	3600	
107	Ag	115	1	0.00	0.00	ppb	33.91	3600	
111	Cd	115	1	0.02	0.02	ppb	37.42	3600	
118	Sn	115	1	0.31	0.31	ppb	2.74	3600	
121	Sb	115	1	0.03	0.03	ppb	9.66	3600	
137	Ba	115	1	9.23	9.23	ppb	1.66	3600	
205	Tl	165	1	0.03	0.03	ppb	27.29	3600	
208	Pb	165	1	0.40	0.40	ppb	2.39	3600	
232	Th	165	1	0.01	0.01	ppb	24.67	1000	
238	U	165	1	0.02	0.02	ppb	8.17	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	446046	0.48	430145	103.7	30 - 120	
45	Sc	1	2747502	1.26	2471808	111.2	30 - 120	
72	Ge	1	1737342	1.08	1546809	112.3	30 - 120	
115	In	1	4822010	1.62	4577165	105.3	30 - 120	
165	Ho	1	8714654	0.46	8765862	99.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\247_CCV.D\247_CCV.D#
Date Acquired:	Nov 3 2011 09:51 am
Operator:	LRD
Sample Name:	CCV-1106831
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 03 2011 08:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.43	ppb	3.52	50	100.9	90 - 110	
51	V	72	1	52.00	ppb	0.38	50	104.0	90 - 110	
52	Cr	72	1	52.32	ppb	0.68	50	104.6	90 - 110	
55	Mn	72	1	52.10	ppb	0.53	50	104.2	90 - 110	
59	Co	72	1	51.80	ppb	0.93	50	103.6	90 - 110	
60	Ni	72	1	50.74	ppb	0.70	50	101.5	90 - 110	
63	Cu	72	1	49.08	ppb	0.73	50	98.2	90 - 110	
66	Zn	72	1	49.59	ppb	0.96	50	99.2	90 - 110	
75	As	72	1	49.98	ppb	0.32	50	100.0	90 - 110	
78	Se	72	1	50.28	ppb	2.76	50	100.6	90 - 110	
95	Mo	72	1	49.23	ppb	0.45	50	98.5	90 - 110	
107	Ag	115	1	51.05	ppb	0.87	50	102.1	90 - 110	
111	Cd	115	1	49.64	ppb	0.50	50	99.3	90 - 110	
118	Sn	115	1	48.01	ppb	0.38	50	96.0	90 - 110	
121	Sb	115	1	46.94	ppb	0.60	50	93.9	90 - 110	
137	Ba	115	1	50.14	ppb	1.34	50	100.3	90 - 110	
205	Tl	165	1	49.44	ppb	0.60	50	98.9	90 - 110	
208	Pb	165	1	47.77	ppb	0.41	50	95.5	90 - 110	
232	Th	165	1	47.47	ppb	0.73	50	94.9	90 - 110	
238	U	165	1	46.95	ppb	0.93	50	93.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	426869	0.61	430145	99.2	30 - 120	
45	Sc	1	2715908	1.73	2471808	109.9	30 - 120	
72	Ge	1	1635860	0.89	1546809	105.8	30 - 120	
115	In	1	4814665	0.68	4577165	105.2	30 - 120	
165	Ho	1	8922087	0.87	8765862	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110211.B\248_CCB.D\248_CCB.D#
Date Acquired:	Nov 3 2011 09:54 am
Operator:	LRD
Sample Name:	CCB-1106802
Misc Info:	
Vial Number:	1305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 03 2011 08:10 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.005	ppb	345.24	1.00	
51	V	72	1	0.008	ppb	321.71	1.00	
52	Cr	72	1	0.017	ppb	51.58	1.00	
55	Mn	72	1	0.121	ppb	13.41	1.00	
59	Co	72	1	0.010	ppb	15.49	1.00	
60	Ni	72	1	0.017	ppb	30.95	1.00	
63	Cu	72	1	0.038	ppb	31.06	1.00	
66	Zn	72	1	0.043	ppb	21.04	1.00	
75	As	72	1	0.013	ppb	43.05	1.00	
78	Se	72	1	0.396	ppb	124.32	1.00	
95	Mo	72	1	0.003	ppb	203.44	1.00	
107	Ag	115	1	0.008	ppb	33.29	1.00	
111	Cd	115	1	0.010	ppb	55.88	1.00	
118	Sn	115	1	0.032	ppb	21.27	1.00	
121	Sb	115	1	0.014	ppb	20.69	1.00	
137	Ba	115	1	0.015	ppb	21.31	1.00	
205	Tl	165	1	0.021	ppb	7.34	1.00	
208	Pb	165	1	0.007	ppb	3.18	1.00	
232	Th	165	1	0.033	ppb	5.48	1.00	
238	U	165	1	0.009	ppb	5.21	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	430239	0.60	430145	100.0	30 - 120	
45	Sc	1	2744153	0.85	2471808	111.0	30 - 120	
72	Ge	1	1641993	1.69	1546809	106.2	30 - 120	
115	In	1	4797243	0.19	4577165	104.8	30 - 120	
165	Ho	1	8780085	0.54	8765862	100.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110211.B\211CALB.D\211CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

94596 — 6020 Water
94597 — 200.8
94600 — Soil

TestAmerica Denver

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ICP/MS Technical Data Review Checklist

Lab Project ID Number(s): see attached cover sheet   Check Method/SOP Used: 6020/DV-MT-0018   200.8/DV-MT-0002

Review Items	--- Level 1 --- Yes	No	N/A	Level 2	Comments & Samples Affected
Tune					
1. Tune solution analyzed min. of 4 times for 6020 or 5 times for 200.8?	✓			✓	
2. Tune RSD <5%?	✓				
2. Resolution ≤ 0.9 AMU full width at 10% peak height? **NOTE**: This also satisfies 200.8, 1.0 AMU at 5% peak height	✓			✓	
Initial Calibration					
1. Done with a minimum of 3 integrations of a high standard and blank?	✓			✓	
2. ICV/CCV run at beginning of run, 10% frequency, and end of run? Results with 10% of expected value?	✓			✓	
3. ICB/CCB run at beginning of run, 10% frequency, and end of run? Results +/- RL	✓			✓	
4. ICSA/AB analyzed at beginning of run and every 12 hours and results 80- 120% of TV?	✓			✓	
5. RL Std analyzed at beginning of run and results +/- 50% of TV(for AFCEE 4.0, DoD V3 +/- 20% of true value)?	✓			✓	
Client Samples & QC Sample Results					
1. Were all samples within linear range, ≤ 90% of LDR for 200.8?	✓			✓	
2. Dilutions due to target elements?____ Dilutions for other reasons? ✓	✓			✓	
3. All reported results bracketed by in control QC?	✓			✓	
4. All 6020 internal standards for all analyses 30-120% of intensities in blank or all 200.8 internal standards 60-125%?	✓			✓	
5. Was a 5X serial dilution analyzed for 6020 and, if so, are results ± 10% of original result, if original ≥ 100x MDL?	✓			✓	
6. LCS included in batch and within QC limits?	✓			✓	
7. Method blank included and <1/2RL?	✓			✓	
8. MS and MSD included in batch?	✓			✓	
9. PDS analyzed and recovery 75-125%?	✓			✓	
10. Manual calculations documented properly and checked?	✓			✓	
11. Are non-conformances documented on an NCM?	✓			✓	
12. Is the appropriate raw data included?	✓			✓	
13. Are all results manually entered into LIMS verified? Are all electronic data files archived to the appropriate network locations?	✓			✓	
14. Were special client requirements met?	✓				

1st Level Reviewer: [signature]   Date: ~~11/2/11~~ 11/3/11

2nd Level Reviewer: Yongming [signature]   Date: 11/3/11

L:\QA\Edit\FORMS\Data Review\ICPMS   Rev. 2, 6/12/08

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver　Job No.: 280-21683-1

SDG No.:

Batch Number: 91954　Batch Start Date: 10/31/11 14:00　Batch Analyst: Mooney, Joseph C

Batch Method: 3050B　Batch End Date: 10/31/11 19:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00055	MS CALSTD-2 00054		
MB 280-91954/1		3050B, 6020A		1.02 g	100 mL				
LCS 280-91954/2		3050B, 6020A		1.03 g	100 mL	1 mL	1 mL		
280-21683-A-1	MG26 SB104	3050B, 6020A	T	1.07 g	100 mL				
280-21683-A-1 MS	MG26 SB104	3050B, 6020A	T	1.08 g	100 mL	1 mL	1 mL		
280-21683-A-1 MSD	MG26 SB104	3050B, 6020A	T	1.08 g	100 mL	1 mL	1 mL		
280-21683-A-5	MG20 SB090	3050B, 6020A	T	1.06 g	100 mL				
280-21683-A-6	MG20 SB091	3050B, 6020A	T	1.14 g	100 mL				
280-21683-A-7	MG22 SB094	3050B, 6020A	T	1.07 g	100 mL				
280-21683-A-8	MG22 SB095	3050B, 6020A	T	1.04 g	100 mL				
280-21683-A-9	MG22 SB096	3050B, 6020A	T	1.02 g	100 mL				
280-21683-A-10	MG27 SB107	3050B, 6020A	T	1.00 g	100 mL				
280-21683-A-11	MG27 SB106	3050B, 6020A	T	1.13 g	100 mL				
280-21683-A-12	MG25 SB102	3050B, 6020A	T	1.11 g	100 mL				
280-21683-A-13	MG23 SB099	3050B, 6020A	T	1.00 g	100 mL				
280-21683-A-14	MG25 SB103	3050B, 6020A	T	1.16 g	100 mL				
280-21683-A-15	MG23 SB098	3050B, 6020A	T	1.03 g	100 mL				
280-21683-A-16	MG21 SB093	3050B, 6020A	T	1.01 g	100 mL				
280-21683-A-17	MG24 SB100	3050B, 6020A	T	1.11 g	100 mL				
280-21683-A-18	MG21 SB092	3050B, 6020A	T	1.03 g	100 mL				
280-21683-A-19	MG35 SB123	3050B, 6020A	T	1.05 g	100 mL				
280-21683-A-20	MG26 SB105	3050B, 6020A	T	1.05 g	100 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 91954   Batch Start Date: 10/31/11 14:00   Batch Analyst: Mooney, Joseph C

Batch Method: 3050B   Batch End Date: 10/31/11 19:00

Batch Notes	
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	09
Hot Block ID number	02 C-4
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	MET-007
Temperature	95 Degrees C
ID number of the thermometer	908001558
Digestion Tube/Cup Lot #	1105331
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 Degrees C

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 91956   Batch Start Date: 11/01/11 05:30   Batch Analyst: Ivey, Crystal L

Batch Method: 3050B   Batch End Date: 11/01/11 10:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00055	MS CALSTD-2 00054		
MB 280-91956/1		3050B, 6020A		1.06 g	100 mL				
LCS 280-91956/2		3050B, 6020A		1.03 g	100 mL	1 mL	1 mL		
280-21683-A-21	MG24 SB101	3050B, 6020A	T	1.07 g	100 mL				
280-21683-A-21 MS	MG24 SB101	3050B, 6020A	T	1.10 g	100 mL	1 mL	1 mL		
280-21683-A-21 MSD	MG24 SB101	3050B, 6020A	T	1.10 g	100 mL	1 mL	1 mL		
280-21683-B-22	MG35 SB124	3050B, 6020A	T	1.18 g	100 mL				
280-21683-A-23	MG35 SB125	3050B, 6020A	T	1.01 g	100 mL				
280-21683-A-24	MG36 SB126	3050B, 6020A	T	1.11 g	100 mL				
280-21683-B-25	MG36 SB127	3050B, 6020A	T	1.01 g	100 mL				
280-21683-B-26	MG32 SB115	3050B, 6020A	T	1.05 g	100 mL				
280-21683-A-27	MG32 SB116	3050B, 6020A	T	1.15 g	100 mL				
280-21683-A-28	MG33 SB117	3050B, 6020A	T	1.07 g	100 mL				
280-21683-A-29	MG33 SB119	3050B, 6020A	T	1.13 g	100 mL				
280-21683-B-30	MG33 SB118	3050B, 6020A	T	1.13 g	100 mL				
280-21683-B-31	MG34 SB121	3050B, 6020A	T	1.03 g	100 mL				
280-21683-A-32	MG34 SB122	3050B, 6020A	T	1.15 g	100 mL				
280-21683-A-33	MG31 SB113	3050B, 6020A	T	1.12 g	100 mL				
280-21683-B-34	MG31 SB114	3050B, 6020A	T	1.03 g	100 mL				
280-21683-B-35	MG30 SB111	3050B, 6020A	T	1.13 g	100 mL				
280-21683-A-36	MG30 SB112	3050B, 6020A	T	1.05 g	100 mL				
280-21683-A-37	MG29 SB109	3050B, 6020A	T	1.10 g	100 mL				
280-21683-B-38	MG29 SB110	3050B, 6020A	T	1.16 g	100 mL				
280-21683-A-39	MG06 SB062	3050B, 6020A	T	1.19 g	100 mL				
280-21683-B-40	MG06 SB063	3050B, 6020A	T	1.04 g	100 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 91956 Batch Start Date: 11/01/11 05:30 Batch Analyst: Ivey, Crystal L

Batch Method: 3050B Batch End Date: 11/01/11 10:30

Batch Notes	
Analyst	CLI
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	09
Hot Block ID number	01
Oven, Bath or Block Temperature 1	93 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	MET-007
Temperature	93/E-2 Degrees C
ID number of the thermometer	908001800
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	93 Celsius
Uncorrected Temperature 2	95 Degrees C

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 91958 Batch Start Date: 11/01/11 05:30 Batch Analyst: Ivey, Crystal L

Batch Method: 3050B Batch End Date: 11/01/11 10:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00055	MS CALSTD-2 00054		
MB 280-91958/1		3050B, 6020A		1.05 g	100 mL				
LCS 280-91958/2		3050B, 6020A		1.02 g	100 mL	1 mL	1 mL		
280-21683-B-41	MG06 SB064	3050B, 6020A	T	1.10 g	100 mL				
280-21683-B-41 MS	MG06 SB064	3050B, 6020A	T	1.17 g	100 mL	1 mL	1 mL		
280-21683-B-41 MSD	MG06 SB064	3050B, 6020A	T	1.04 g	100 mL	1 mL	1 mL		
280-21683-B-42	MG05 SB060	3050B, 6020A	T	1.06 g	100 mL				
280-21683-B-43	MG05 SB061	3050B, 6020A	T	1.05 g	100 mL				
280-21683-B-44	MG04 SB058	3050B, 6020A	T	1.17 g	100 mL				
280-21683-A-45	MG04 SB059	3050B, 6020A	T	1.20 g	100 mL				
280-21683-A-46	MG03 SB056	3050B, 6020A	T	1.16 g	100 mL				
280-21683-A-47	MG03 SB057	3050B, 6020A	T	1.04 g	100 mL				
280-21683-B-48	MG02 SB054	3050B, 6020A	T	1.05 g	100 mL				
280-21683-A-49	MG02 SB055	3050B, 6020A	T	1.11 g	100 mL				
280-21683-A-50	MG15 SB081	3050B, 6020A	T	1.19 g	100 mL				
280-21683-A-51	MG15 SB082	3050B, 6020A	T	1.07 g	100 mL				
280-21683-A-52	MG12 SB073	3050B, 6020A	T	1.20 g	100 mL				
280-21683-A-53	MG12 SB075	3050B, 6020A	T	1.10 g	100 mL				
280-21683-B-54	MG12 SB074	3050B, 6020A	T	1.03 g	100 mL				
280-21683-B-55	MG11 SB071	3050B, 6020A	T	1.08 g	100 mL				
280-21683-B-56	MG11 SB072	3050B, 6020A	T	1.09 g	100 mL				
280-21683-A-57	MG14 SB079	3050B, 6020A	T	1.03 g	100 mL				
280-21683-A-58	MG14 SB080	3050B, 6020A	T	1.04 g	100 mL				
280-21683-B-59	MG13 SB077	3050B, 6020A	T	1.06 g	100 mL				
280-21683-A-60	MG13 SB078	3050B, 6020A	T	1.04 g	100 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 91958 Batch Start Date: 11/01/11 05:30 Batch Analyst: Ivey, Crystal L

Batch Method: 3050B Batch End Date: 11/01/11 10:30

Batch Notes	
Analyst	CLI
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	09
Hot Block ID number	02
Oven, Bath or Block Temperature 1	92 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	MET-007
Temperature	92/F-5 Degrees C
ID number of the thermometer	908001558
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	92 Celsius
Uncorrected Temperature 2	95 Degrees C

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 91960 Batch Start Date: 11/01/11 05:30 Batch Analyst: Ivey, Crystal L

Batch Method: 3050B Batch End Date: 11/01/11 10:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00055	MS CALSTD-2 00054		
MB 280-91960/1		3050B, 6020A		1.05 g	100 mL				
LCS 280-91960/2		3050B, 6020A		1.05 g	100 mL	1 mL	1 mL		
280-21683-A-61	MG16 SB083	3050B, 6020A	T	1.12 g	100 mL				
280-21683-A-61 MS	MG16 SB083	3050B, 6020A	T	1.20 g	100 mL	1 mL	1 mL		
280-21683-A-61 MSD	MG16 SB083	3050B, 6020A	T	1.01 g	100 mL	1 mL	1 mL		
280-21683-B-62	MG16 SB084	3050B, 6020A	T	1.13 g	100 mL				
280-21683-B-63	MG09 SB069	3050B, 6020A	T	1.05 g	100 mL				
280-21683-B-64	MG09 SB070	3050B, 6020A	T	1.07 g	100 mL				
280-21683-A-65	MG08 SB067	3050B, 6020A	T	1.07 g	100 mL				
280-21683-A-66	MG08 SB068	3050B, 6020A	T	1.15 g	100 mL				
280-21683-B-67	MG07 SB065	3050B, 6020A	T	1.10 g	100 mL				
280-21683-B-68	MG07 SB066	3050B, 6020A	T	1.14 g	100 mL				
280-21683-B-69	MG17 SB085	3050B, 6020A	T	1.15 g	100 mL				
280-21683-B-70	MG17 SB086	3050B, 6020A	T	1.06 g	100 mL				
280-21683-B-71	MG17 SB087	3050B, 6020A	T	1.07 g	100 mL				
280-21683-B-72	MG18 SB088	3050B, 6020A	T	1.06 g	100 mL				
280-21683-B-73	MG18 SB089	3050B, 6020A	T	1.02 g	100 mL				
280-21683-A-77	CP10 SB014	3050B, 6020A	T	1.15 g	100 mL				
280-21683-A-78	CP10 SB015	3050B, 6020A	T	1.05 g	100 mL				
280-21683-B-79	CP09 SB012	3050B, 6020A	T	1.17 g	100 mL				
280-21683-A-80	CP09 SB013	3050B, 6020A	T	1.17 g	100 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 91960 Batch Start Date: 11/01/11 05:30 Batch Analyst: Ivey, Crystal L

Batch Method: 3050B Batch End Date: 11/01/11 10:30

Batch Notes	
Analyst	CLI
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	08
Hot Block ID number	05
Oven, Bath or Block Temperature 1	92 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	MET-007
Temperature	92/C-6 Degrees C
ID number of the thermometer	908002329
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	92 Celsius
Uncorrected Temperature 2	95 Degrees C

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 91961   Batch Start Date: 11/02/11 18:00   Batch Analyst: Mooney, Joseph C

Batch Method: 3050B   Batch End Date: 11/02/11 23:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00055	MS CALSTD-2 00054		
MB 280-91961/1		3050B, 6020A		1.12 g	100 mL				
LCS 280-91961/2		3050B, 6020A		1.06 g	100 mL	1 mL	1 mL		
280-21683-A-81	CP08 SB009	3050B, 6020A	T	1.17 g	100 mL				
280-21683-A-81 MS	CP08 SB009	3050B, 6020A	T	1.02 g	100 mL	1 mL	1 mL		
280-21683-A-81 MSD	CP08 SB009	3050B, 6020A	T	1.11 g	100 mL	1 mL	1 mL		
280-21683-A-82	CP08 SB010	3050B, 6020A	T	1.19 g	100 mL				
280-21683-A-83	CP08 SB011	3050B, 6020A	T	1.03 g	100 mL				
280-21683-A-84	CP11 SB16A	3050B, 6020A	T	1.01 g	100 mL				
280-21683-A-85	CP11 SB16B	3050B, 6020A	T	1.09 g	100 mL				
280-21683-A-86	CP07 SB007	3050B, 6020A	T	1.06 g	100 mL				
280-21683-A-87	CP07 SB008	3050B, 6020A	T	1.04 g	100 mL				
280-21683-A-88	CP04 SB001	3050B, 6020A	T	1.08 g	100 mL				
280-21683-A-89	CP04 SB002	3050B, 6020A	T	1.20 g	100 mL				
280-21683-A-90	CP06 SB005	3050B, 6020A	T	1.04 g	100 mL				
280-21683-A-91	CP06 SB006	3050B, 6020A	T	1.04 g	100 mL				
280-21683-A-92	CP05 SB003	3050B, 6020A	T	1.06 g	100 mL				
280-21683-A-93	CP05 SB004	3050B, 6020A	T	1.02 g	100 mL				
280-21683-A-94	CP12 SB017	3050B, 6020A	T	1.20 g	100 mL				
280-21683-A-95	CP12 SB018	3050B, 6020A	T	1.17 g	100 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 91961   Batch Start Date: 11/02/11 18:00   Batch Analyst: Mooney, Joseph C

Batch Method: 3050B   Batch End Date: 11/02/11 23:00

Batch Notes	
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	09
Hot Block ID number	02 D-5
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	MET-007
Temperature	95 Degrees C
ID number of the thermometer	908001558
Digestion Tube/Cup Lot #	1105331
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 Degrees C

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 94043 Batch Start Date: 11/02/11 14:00 Batch Analyst: Mooney, Joseph C

Batch Method: 3050B Batch End Date: 11/02/11 19:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00055	MS CALSTD-2 00054		
MB 280-94043/1		3050B, 6020A		10.52 g	500 mL				
LCS 280-94043/2		3050B, 6020A		10.17 g	500 mL	5 mL	5 mL		
280-21683-A-2-B	MG19 IS016	3050B, 6020A	T	10.49 g	500 mL				
280-21683-A-3-B	MG19 IS017	3050B, 6020A	T	10.57 g	500 mL				
280-21683-A-4-B	MG19 IS018	3050B, 6020A	T	10.25 g	500 mL				
280-21683-A-74-B	CP01 IS01	3050B, 6020A	T	10.31 g	500 mL				
280-21683-A-75-B	CP01 IS02	3050B, 6020A	T	10.64 g	500 mL				
280-21683-A-76-B	CP01 IS03	3050B, 6020A	T	10.47 g	500 mL				
280-21683-A-76-B MS	CP01 IS03	3050B, 6020A	T	10.49 g	500 mL	5 mL	5 mL		
280-21683-A-76-B MSD	CP01 IS03	3050B, 6020A	T	10.51 g	500 mL	5 mL	5 mL		

Batch Notes	
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	06
Hot Block ID number	MI1 A-1
Oven, Bath or Block Temperature 1	94 Degrees C
Oven, Bath or Block Temperature 2	94 Degrees C
Pipette ID	MET-007
Temperature	94 Degrees C
ID number of the thermometer	291065
Digestion Tube/Cup Lot #	1105331
Uncorrected Temperature	94 Celsius
Uncorrected Temperature 2	94 Degrees C

Basis	Basis Description
T	Total/NA

6020A

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 94294 Batch Start Date: 11/02/11 18:00 Batch Analyst: Mooney, Joseph C

Batch Method: 3050B Batch End Date: 11/02/11 23:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00055	MS CALSTD-2 00054		
MB 280-94294/1		3050B, 6020A		1.09 g	100 mL				
LCS 280-94294/2		3050B, 6020A		1.09 g	100 mL	1 mL	1 mL		
280-21683-A-1	MG26 SB104	3050B, 6020A	T	1.07 g	100 mL				
280-21683-A-1 MS	MG26 SB104	3050B, 6020A	T	1.10 g	100 mL	1 mL	1 mL		
280-21683-A-1 MSD	MG26 SB104	3050B, 6020A	T	1.07 g	100 mL	1 mL	1 mL		
280-21683-A-5	MG20 SB090	3050B, 6020A	T	1.13 g	100 mL				
280-21683-A-6	MG20 SB091	3050B, 6020A	T	1.15 g	100 mL				
280-21683-A-7	MG22 SB094	3050B, 6020A	T	1.20 g	100 mL				
280-21683-A-8	MG22 SB095	3050B, 6020A	T	1.16 g	100 mL				
280-21683-A-9	MG22 SB096	3050B, 6020A	T	1.09 g	100 mL				
280-21683-A-10	MG27 SB107	3050B, 6020A	T	1.13 g	100 mL				
280-21683-A-11	MG27 SB106	3050B, 6020A	T	1.10 g	100 mL				
280-21683-A-12	MG25 SB102	3050B, 6020A	T	1.01 g	100 mL				
280-21683-A-13	MG23 SB099	3050B, 6020A	T	1.12 g	100 mL				
280-21683-A-14	MG25 SB103	3050B, 6020A	T	1.10 g	100 mL				
280-21683-A-15	MG23 SB098	3050B, 6020A	T	1.03 g	100 mL				
280-21683-A-16	MG21 SB093	3050B, 6020A	T	1.07 g	100 mL				
280-21683-A-17	MG24 SB100	3050B, 6020A	T	1.04 g	100 mL				
280-21683-A-18	MG21 SB092	3050B, 6020A	T	1.04 g	100 mL				
280-21683-A-19	MG35 SB123	3050B, 6020A	T	1.02 g	100 mL				
280-21683-A-20	MG26 SB105	3050B, 6020A	T	1.01 g	100 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 94294 Batch Start Date: 11/02/11 18:00 Batch Analyst: Mooney, Joseph C

Batch Method: 3050B Batch End Date: 11/02/11 23:00

Batch Notes	
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	09
Hot Block ID number	01 B-6
Oven, Bath or Block Temperature 1	93 Degrees C
Oven, Bath or Block Temperature 2	93 Degrees C
Pipette ID	MET-007
Temperature	93 Degrees C
ID number of the thermometer	908001800
Digestion Tube/Cup Lot #	1105331
Uncorrected Temperature	93 Celsius
Uncorrected Temperature 2	93 Degrees C

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job Number: 280-21683-1

SDG No.:

Project: Martha's Vineyard RI

Client Sample ID	Lab Sample ID
MG26 SB104	280-21683-1
MG20 SB090	280-21683-5
MG20 SB091	280-21683-6
MG22 SB094	280-21683-7
MG22 SB095	280-21683-8
MG22 SB096	280-21683-9
MG27 SB107	280-21683-10
MG27 SB106	280-21683-11
MG25 SB102	280-21683-12
MG23 SB099	280-21683-13
MG25 SB103	280-21683-14
MG23 SB098	280-21683-15
MG21 SB093	280-21683-16
MG24 SB100	280-21683-17
MG21 SB092	280-21683-18
MG35 SB123	280-21683-19
MG26 SB105	280-21683-20
MG24 SB101	280-21683-21
MG35 SB124	280-21683-22
MG35 SB125	280-21683-23
MG36 SB126	280-21683-24
MG36 SB127	280-21683-25
MG32 SB115	280-21683-26
MG32 SB116	280-21683-27
MG33 SB117	280-21683-28
MG33 SB119	280-21683-29
MG33 SB118	280-21683-30
MG34 SB121	280-21683-31
MG34 SB122	280-21683-32
MG31 SB113	280-21683-33
MG31 SB114	280-21683-34
MG30 SB111	280-21683-35
MG30 SB112	280-21683-36
MG29 SB109	280-21683-37
MG29 SB110	280-21683-38
MG06 SB062	280-21683-39
MG06 SB063	280-21683-40
MG06 SB064	280-21683-41
MG05 SB060	280-21683-42
MG05 SB061	280-21683-43
MG04 SB058	280-21683-44
MG04 SB059	280-21683-45
MG03 SB056	280-21683-46
MG03 SB057	280-21683-47
MG02 SB054	280-21683-48

Comments:

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GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job Number: 280-21683-1

SDG No.:

Project: Martha's Vineyard RI

Client Sample ID	Lab Sample ID
MG02 SB055	280-21683-49
MG15 SB081	280-21683-50
MG15 SB082	280-21683-51
MG12 SB073	280-21683-52
MG12 SB075	280-21683-53
MG12 SB074	280-21683-54
MG11 SB071	280-21683-55
MG11 SB072	280-21683-56
MG14 SB079	280-21683-57
MG14 SB080	280-21683-58
MG13 SB077	280-21683-59
MG13 SB078	280-21683-60
MG16 SB083	280-21683-61
MG16 SB084	280-21683-62
MG09 SB069	280-21683-63
MG09 SB070	280-21683-64
MG08 SB067	280-21683-65
MG08 SB068	280-21683-66
MG07 SB065	280-21683-67
MG07 SB066	280-21683-68
MG17 SB085	280-21683-69
MG17 SB086	280-21683-70
MG17 SB087	280-21683-71
MG18 SB088	280-21683-72
MG18 SB089	280-21683-73
CP10 SB014	280-21683-77
CP10 SB015	280-21683-78
CP09 SB012	280-21683-79
CP09 SB013	280-21683-80
CP08 SB009	280-21683-81
CP08 SB010	280-21683-82
CP08 SB011	280-21683-83
CP11 SB16A	280-21683-84
CP11 SB16B	280-21683-85
CP07 SB007	280-21683-86
CP07 SB008	280-21683-87
CP04 SB001	280-21683-88
CP04 SB002	280-21683-89
CP06 SB005	280-21683-90
CP06 SB006	280-21683-91
CP05 SB003	280-21683-92
CP05 SB004	280-21683-93
CP12 SB017	280-21683-94
CP12 SB018	280-21683-95

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job Number: 280-21683-1

SDG Number:

Matrix: Solid   Instrument ID: NOEQUIP

Method: Moisture   LOQ Date: 11/01/2009 00:00

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

FORM IX - IN

ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 10/19/2011 08:16   End Date: 10/19/2011 12:22

				Analytes																			
Lab Sample ID	D/F	Type	Time	%Sol	Moist																		
ZZZZZZ			08:16																				
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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 10/19/2011 08:16   End Date: 10/19/2011 12:22

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			08:16																				
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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 10/19/2011 08:16   End Date: 10/19/2011 12:22

Lab Sample ID	D/F	Type	Time	%Sol	Moist
ZZZZZZ			08:16		
ZZZZZZ			08:16		
ZZZZZZ			08:16		
ZZZZZZ			08:16		
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ZZZZZZ			08:18		
ZZZZZZ			08:18		

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 10/19/2011 08:16 End Date: 10/19/2011 12:22

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			08:18																				
ZZZZZZ			08:18																				
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ZZZZZZ			08:18																				
ZZZZZZ			08:18																				
ZZZZZZ			12:22																				
280-21683-14	1	T	12:22	X	X																		
280-21683-39	1	T	12:22	X	X																		
280-21683-36	1	T	12:22	X	X																		
280-21683-33	1	T	12:22	X	X																		
280-21683-34	1	T	12:22	X	X																		
280-21683-35	1	T	12:22	X	X																		
280-21683-35 DU	1	T	12:22	X	X																		
280-21683-16	1	T	12:22	X	X																		
280-21683-13	1	T	12:22	X	X																		
280-21683-48	1	T	12:22	X	X																		
280-21683-41	1	T	12:22	X	X																		
280-21683-49	1	T	12:22	X	X																		
280-21683-42	1	T	12:22	X	X																		
280-21683-45	1	T	12:22	X	X																		
280-21683-44	1	T	12:22	X	X																		
280-21683-18	1	T	12:22	X	X																		
280-21683-47	1	T	12:22	X	X																		

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 10/19/2011 08:16   End Date: 10/19/2011 12:22

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
280-21683-43	1	T	12:22	X	X																		
280-21683-46	1	T	12:22	X	X																		
280-21683-40	1	T	12:22	X	X																		
280-21683-65	1	T	12:22	X	X																		
280-21683-67	1	T	12:22	X	X																		
280-21683-68	1	T	12:22	X	X																		
280-21683-64	1	T	12:22	X	X																		
280-21683-69	1	T	12:22	X	X																		
280-21683-88	1	T	12:22	X	X																		
280-21683-93	1	T	12:22	X	X																		
280-21683-93 DU	1	T	12:22	X	X																		
280-21683-94	1	T	12:22	X	X																		
280-21683-90	1	T	12:22	X	X																		
280-21683-95	1	T	12:22	X	X																		
280-21683-86	1	T	12:22	X	X																		
280-21683-89	1	T	12:22	X	X																		
280-21683-92	1	T	12:22	X	X																		
280-21683-91	1	T	12:22	X	X																		
280-21683-87	1	T	12:22	X	X																		
280-21683-83	1	T	12:22	X	X																		
280-21683-80	1	T	12:22	X	X																		
280-21683-73	1	T	12:22	X	X																		
280-21683-82	1	T	12:22	X	X																		
280-21683-72	1	T	12:22	X	X																		
280-21683-85	1	T	12:22	X	X																		
280-21683-15	1	T	12:22	X	X																		
280-21683-17	1	T	12:22	X	X																		
280-21683-37	1	T	12:22	X	X																		
280-21683-38	1	T	12:22	X	X																		
ZZZZZZ			12:22																				
ZZZZZZ			12:22																				
ZZZZZZ			12:22																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 10/20/2011 07:41 End Date: 10/20/2011 11:16

Lab Sample ID	D/F	Type	Time	Analytes: %Sol	Moist
ZZZZZZ			07:41		
ZZZZZZ			07:41		
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ZZZZZZ			07:41		
280-21683-23	1	T	07:41	X	X
280-21683-22	1	T	07:41	X	X
280-21683-12	1	T	07:41	X	X
280-21683-9	1	T	07:41	X	X
280-21683-5	1	T	07:41	X	X
280-21683-8	1	T	07:41	X	X
280-21683-10	1	T	07:41	X	X
280-21683-32	1	T	07:41	X	X
280-21683-11	1	T	07:41	X	X
280-21683-20	1	T	07:41	X	X
280-21683-7	1	T	07:41	X	X
280-21683-29	1	T	07:41	X	X
280-21683-28	1	T	07:41	X	X
280-21683-30	1	T	07:41	X	X
280-21683-31	1	T	07:41	X	X
280-21683-24	1	T	07:41	X	X
280-21683-24 DU	1	T	07:41	X	X
280-21683-19	1	T	07:41	X	X
280-21683-1	1	T	07:41	X	X

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 10/20/2011 07:41 End Date: 10/20/2011 11:16

Lab Sample ID	D/F	Type	Time	Analytes: %Sol	Analytes: Moist
280-21683-6	1	T	07:41	X	X
280-21683-27	1	T	07:41	X	X
280-21683-26	1	T	07:41	X	X
280-21683-21	1	T	07:41	X	X
280-21683-25	1	T	07:41	X	X
280-21683-58	1	T	07:41	X	X
280-21683-56	1	T	07:41	X	X
280-21683-57	1	T	07:41	X	X
280-21683-59	1	T	07:41	X	X
280-21683-51	1	T	07:41	X	X
280-21683-54	1	T	07:41	X	X
280-21683-50	1	T	07:41	X	X
280-21683-61	1	T	07:41	X	X
280-21683-55	1	T	07:41	X	X
280-21683-52	1	T	07:41	X	X
280-21683-53	1	T	07:41	X	X
280-21683-77	1	T	07:41	X	X
280-21683-81	1	T	07:41	X	X
280-21683-81 DU	1	T	07:41	X	X
280-21683-60	1	T	07:41	X	X
280-21683-78	1	T	07:41	X	X
280-21683-66	1	T	07:41	X	X
280-21683-62	1	T	07:41	X	X
280-21683-79	1	T	07:41	X	X
280-21683-71	1	T	07:41	X	X
280-21683-70	1	T	07:41	X	X
280-21683-63	1	T	07:41	X	X
280-21683-84	1	T	07:41	X	X
ZZZZZZ			07:41		
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 10/20/2011 07:41   End Date: 10/20/2011 11:16

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			07:41																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 10/20/2011 07:41 End Date: 10/20/2011 11:16

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			11:16																				
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Prep Types

T = Total/NA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Wet Chemistry Data Review Checklist For Gravimetric Methods

Test Name/Method #: Moisture   Analysis Date: 10/19/11

SOP #: DV-WC-0023   Analyst: PB   Instrument: H31422

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
21643, 21644, 21692	S	—	91906	Moisture	
21668, 21680, 21675	↓	↓	↓	↓	
21676, 21683,	↓	↓	↓	↓	

A. Balance, Oven, and DI Water QC Checks	Yes	No	N/A	2nd Level
1. Was the balance calibration verified before and after processing samples and noted in the "Balance Calibration Log" for the date(s) the samples were processed?	✓			✓
2. Was the oven temperature within method requirements and recorded in the "Oven Temperature" logbook for the date(s) the samples were processed?	✓			✓
3. Was the daily conductivity check of the deionized water recorded in the "Conductivity Logbook"?			✓	✓
B. Method Requirements				
1. If sample is visibly oily, was this noted on the benchsheet?	✓			✓
2. Was final residue weight within minimum/maximum requirements?	✓			✓
3. Were the initial and final drying dates and times recorded on the benchsheet and were all samples dried for at least one hour?	✓			✓
C. Sample Results				
1. TDS/Conductivity ratio or historical data checked?			✓	✓
2. For % Moisture, was the Final Dried Weight < the Initial Pan Weight or is the result greater than 100%?		✓		✓
3. Were sample analyses done within holding time?	✓			✓
4. Were special client requirements met?	✓			✓
5. Were data that were manually transcribed from instrument printouts into TALS verified 100% including significant figures and units?			✓	✓
6. Do the prep and analysis dates in TALS reflect the actual dates? Lots/Dates report checked?	✓			✓
7. STD/True Value information is updated and included?			✓	✓
8. Are raw data copies prepared, scanned, and uploaded?	✓			✓
D. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10 X RL?			✓	✓
2. Method blank < ½ RL or NCM provided?			✓	✓
3. LCS/LCSD run for batch and within QC limits?			✓	✓
4. DUP run for batch and RPD < 20% for samples >5 X RL?	✓			✓

Analyst: Paul Berry   Date: 10/20/11

Comments:

2nd Level Reviewer : [signature]   Date: 10/20/11

Comments:

Revision 2.0
5/18/10
QA\Edit\FORMS\Data Review\Gravimetric Review Checklist

TestAmerica Denver

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Wet Chemistry Data Review Checklist For Gravimetric Methods

Test Name/Method #: Moisture **Analysis Date:** 10/20/11

SOP #: DV-WC-0023 **Analyst:** PB **Instrument:** H31422

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
21684, 21699, 21722	S	—	92133	Moisture	
21683, 21733, 21705					
21729, 21755					

A. Balance, Oven, and DI Water QC Checks	Yes	No	N/A	2nd Level
1. Was the balance calibration verified before and after processing samples and noted in the "Balance Calibration Log" for the date(s) the samples were processed?	✓			✓
2. Was the oven temperature within method requirements and recorded in the "Oven Temperature" logbook for the date(s) the samples were processed?	✓			✓
3. Was the daily conductivity check of the deionized water recorded in the "Conductivity Logbook"?			✓	✓
B. Method Requirements				
1. If sample is visibly oily, was this noted on the benchsheet?	✓			✓
2. Was final residue weight within minimum/maximum requirements?	✓			✓
3. Were the initial and final drying dates and times recorded on the benchsheet and were all samples dried for at least one hour?	✓			✓
C. Sample Results				
1. TDS/Conductivity ratio or historical data checked?			✓	✓
2. For % Moisture, was the Final Dried Weight < the Initial Pan Weight or is the result greater than 100%?		✓		✓
3. Were sample analyses done within holding time?	✓			✓
4. Were special client requirements met?	✓			✓
5. Were data that were manually transcribed from instrument printouts into TALS verified 100% including significant figures and units?			✓	✓
6. Do the prep and analysis dates in TALS reflect the actual dates? Lots/Dates report checked?	✓			✓
7. STD/True Value information is updated and included?			✓	✓
8. Are raw data copies prepared, scanned, and uploaded?	✓			✓
D. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10 X RL?			✓	✓
2. Method blank < ½ RL or NCM provided?			✓	✓
3. LCS/LCSD run for batch and within QC limits?			✓	✓
4. DUP run for batch and RPD < 20% for samples >5 X RL?	✓			✓

Analyst: Paul Berry **Date:** 10/21/11

Comments:

2nd Level Reviewer : [signature] **Date:** 10/21/11

Comments:

Revision 2.0
5/18/10
QA\Edit\FORMS\Data Review\Gravimetric Review Checklist

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 91906   Batch Start Date: 10/19/11 08:16   Batch Analyst: Berry III, Paul B

Batch Method: Moisture   Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
280-21683-A-14	MG25 SB103	Moisture	T	152	1.29 g	17.70 g	15.28 g		
280-21683-A-39	MG06 SB062	Moisture	T	153	1.28 g	17.10 g	15.21 g		
280-21683-A-36	MG30 SB112	Moisture	T	154	1.27 g	17.22 g	16.01 g		
280-21683-A-33	MG31 SB113	Moisture	T	155	1.28 g	17.02 g	15.49 g		
280-21683-B-34	MG31 SB114	Moisture	T	156	1.27 g	17.66 g	16.27 g		
280-21683-B-35	MG30 SB111	Moisture	T	157	1.28 g	17.85 g	16.07 g		
280-21683-B-35 DU	MG30 SB111	Moisture	T	158	1.28 g	17.16 g	15.39 g		
280-21683-B-16	MG21 SB093	Moisture	T	159	1.26 g	18.33 g	17.51 g		
280-21683-B-13	MG23 SB099	Moisture	T	160	1.28 g	17.65 g	16.59 g		
280-21683-B-48	MG02 SB054	Moisture	T	161	1.28 g	17.10 g	15.91 g		
280-21683-B-41	MG06 SB064	Moisture	T	162	1.29 g	17.99 g	16.57 g		
280-21683-A-49	MG02 SB055	Moisture	T	163	1.28 g	17.44 g	16.55 g		
280-21683-B-42	MG05 SB060	Moisture	T	164	1.27 g	17.32 g	15.39 g		
280-21683-A-45	MG04 SB059	Moisture	T	165	1.29 g	17.70 g	16.87 g		
280-21683-B-44	MG04 SB058	Moisture	T	166	1.29 g	17.72 g	16.05 g		
280-21683-B-18	MG21 SB092	Moisture	T	167	1.28 g	17.49 g	16.47 g		
280-21683-A-47	MG03 SB057	Moisture	T	168	1.28 g	17.00 g	16.24 g		
280-21683-B-43	MG05 SB061	Moisture	T	169	1.29 g	18.17 g	17.24 g		
280-21683-A-46	MG03 SB056	Moisture	T	170	1.30 g	17.90 g	16.24 g		
280-21683-B-40	MG06 SB063	Moisture	T	171	1.31 g	17.42 g	16.00 g		
280-21683-A-65	MG08 SB067	Moisture	T	172	1.29 g	17.16 g	16.31 g		
280-21683-B-67	MG07 SB065	Moisture	T	173	1.31 g	17.64 g	16.26 g		
280-21683-B-68	MG07 SB066	Moisture	T	174	1.30 g	17.73 g	16.92 g		
280-21683-B-64	MG09 SB070	Moisture	T	175	1.30 g	17.84 g	16.66 g		
280-21683-B-69	MG17 SB085	Moisture	T	176	1.29 g	17.41 g	16.67 g		
280-21683-B-88	CP04 SB001	Moisture	T	177	1.28 g	17.50 g	16.08 g		
280-21683-B-93	CP05 SB004	Moisture	T	178	1.29 g	17.58 g	16.45 g		
280-21683-B-93 DU	CP05 SB004	Moisture	T	179	1.29 g	17.14 g	16.07 g		
280-21683-A-94	CP12 SB017	Moisture	T	180	1.28 g	17.47 g	15.69 g		
280-21683-A-90	CP06 SB005	Moisture	T	181	1.29 g	17.64 g	16.15 g		
280-21683-A-95	CP12 SB018	Moisture	T	182	1.29 g	17.56 g	16.00 g		

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 91906   Batch Start Date: 10/19/11 08:16   Batch Analyst: Berry III, Paul B

Batch Method: Moisture   Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
280-21683-B-86	CP07 SB007	Moisture	T	183	1.29 g	18.00 g	16.34 g		
280-21683-B-89	CP04 SB002	Moisture	T	184	1.27 g	17.42 g	16.30 g		
280-21683-A-92	CP05 SB003	Moisture	T	185	1.29 g	17.93 g	16.60 g		
280-21683-B-91	CP06 SB006	Moisture	T	186	1.28 g	17.83 g	16.59 g		
280-21683-B-87	CP07 SB008	Moisture	T	187	1.29 g	18.15 g	16.67 g		
280-21683-B-83	CP08 SB011	Moisture	T	188	1.29 g	17.83 g	16.01 g		
280-21683-A-80	CP09 SB013	Moisture	T	189	1.29 g	18.01 g	16.01 g		
280-21683-B-73	MG18 SB089	Moisture	T	190	1.29 g	17.18 g	15.78 g		
280-21683-B-82	CP08 SB010	Moisture	T	191	1.29 g	17.91 g	16.15 g		
280-21683-B-72	MG18 SB088	Moisture	T	192	1.29 g	17.27 g	15.54 g		
280-21683-B-85	CP11 SB16B	Moisture	T	193	1.27 g	17.26 g	15.76 g		
280-21683-A-15	MG23 SB098	Moisture	T	194	1.28 g	17.25 g	16.50 g		
280-21683-A-17	MG24 SB100	Moisture	T	195	1.28 g	17.44 g	16.82 g		
280-21683-A-37	MG29 SB109	Moisture	T	196	1.29 g	18.14 g	16.38 g		
280-21683-B-38	MG29 SB110	Moisture	T	197	1.28 g	17.52 g	15.59 g		

Batch Notes	
Balance ID	H31422 No Unit
Date samples were placed in the oven	10/19/11
Oven Temp when samples are put in oven	103 / 104 Degrees C
Time samples were place in the oven	1445
Date samples were removed from oven	10/20/11
Oven Temp when samples removed from oven	104 /103 Degrees C
Time Samples were removed from oven	0645
Oven ID	D/C
ID number of the thermometer	Moist ove
Uncorrected In Temperature	103 / 104 Celsius
Uncorrected Out Temperature	104 / 103 Celsius

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21683-1

SDG No.:

Batch Number: 92133   Batch Start Date: 10/20/11 07:41   Batch Analyst: Berry III, Paul B

Batch Method: Moisture   Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
280-21683-A-23	MG35 SB125	Moisture	T	24	1.31 g	17.27 g	15.43 g		
280-21683-B-22	MG35 SB124	Moisture	T	25	1.30 g	17.47 g	15.64 g		
280-21683-B-12	MG25 SB102	Moisture	T	26	1.29 g	17.16 g	15.67 g		
280-21683-B-9	MG22 SB096	Moisture	T	27	1.27 g	17.39 g	16.09 g		
280-21683-A-5	MG20 SB090	Moisture	T	28	1.31 g	17.21 g	14.20 g		
280-21683-B-8	MG22 SB095	Moisture	T	29	1.32 g	17.59 g	14.63 g		
280-21683-A-10	MG27 SB107	Moisture	T	30	1.32 g	17.08 g	15.11 g		
280-21683-A-32	MG34 SB122	Moisture	T	31	1.27 g	17.60 g	16.42 g		
280-21683-B-11	MG27 SB106	Moisture	T	32	1.29 g	16.96 g	14.13 g		
280-21683-B-20	MG26 SB105	Moisture	T	33	1.29 g	17.59 g	15.68 g		
280-21683-B-7	MG22 SB094	Moisture	T	34	1.31 g	17.84 g	16.47 g		
280-21683-A-29	MG33 SB119	Moisture	T	35	1.31 g	17.77 g	15.61 g		
280-21683-A-28	MG33 SB117	Moisture	T	36	1.27 g	17.20 g	14.84 g		
280-21683-B-30	MG33 SB118	Moisture	T	37	1.27 g	17.29 g	15.63 g		
280-21683-B-31	MG34 SB121	Moisture	T	38	1.28 g	18.05 g	16.62 g		
280-21683-A-24	MG36 SB126	Moisture	T	39	1.28 g	17.36 g	15.74 g		
280-21683-A-24 DU	MG36 SB126	Moisture	T	40	1.25 g	17.43 g	15.85 g		
280-21683-B-19	MG35 SB123	Moisture	T	41	1.27 g	17.68 g	15.80 g		
280-21683-A-1	MG26 SB104	Moisture	T	42	1.25 g	17.71 g	15.37 g		
280-21683-B-6	MG20 SB091	Moisture	T	43	1.28 g	17.66 g	15.21 g		
280-21683-A-27	MG32 SB116	Moisture	T	44	1.26 g	17.25 g	14.45 g		
280-21683-B-26	MG32 SB115	Moisture	T	45	1.27 g	17.67 g	15.38 g		
280-21683-A-21	MG24 SB101	Moisture	T	46	1.27 g	17.40 g	16.55 g		
280-21683-B-25	MG36 SB127	Moisture	T	47	1.27 g	17.64 g	15.55 g		
280-21683-A-58	MG14 SB080	Moisture	T	48	1.26 g	17.71 g	15.82 g		
280-21683-B-56	MG11 SB072	Moisture	T	49	1.26 g	17.44 g	16.01 g		
280-21683-A-57	MG14 SB079	Moisture	T	50	1.29 g	17.94 g	15.90 g		
280-21683-B-59	MG13 SB077	Moisture	T	51	1.30 g	17.41 g	15.80 g		
280-21683-A-51	MG15 SB082	Moisture	T	52	1.30 g	17.10 g	15.39 g		
280-21683-B-54	MG12 SB074	Moisture	T	53	1.29 g	17.09 g	15.98 g		
280-21683-A-50	MG15 SB081	Moisture	T	54	1.29 g	17.73 g	16.70 g		
280-21683-A-61	MG16 SB083	Moisture	T	55	1.29 g	17.92 g	15.86 g		

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21683-1

SDG No.:

Batch Number: 92133 Batch Start Date: 10/20/11 07:41 Batch Analyst: Berry III, Paul B

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
280-21683-B-55	MG11 SB071	Moisture	T	56	1.30 g	17.17 g	15.71 g		
280-21683-A-52	MG12 SB073	Moisture	T	57	1.29 g	17.42 g	16.04 g		
280-21683-A-53	MG12 SB075	Moisture	T	58	1.31 g	17.43 g	16.25 g		
280-21683-A-77	CP10 SB014	Moisture	T	59	1.30 g	17.78 g	15.67 g		
280-21683-B-81	CP08 SB009	Moisture	T	60	1.29 g	17.94 g	15.85 g		
280-21683-B-81 DU	CP08 SB009	Moisture	T	61	1.27 g	17.77 g	15.86 g		
280-21683-A-60	MG13 SB078	Moisture	T	62	1.28 g	17.56 g	16.13 g		
280-21683-A-78	CP10 SB015	Moisture	T	63	1.28 g	17.74 g	15.81 g		
280-21683-A-66	MG08 SB068	Moisture	T	64	1.29 g	17.76 g	16.90 g		
280-21683-B-62	MG16 SB084	Moisture	T	65	1.28 g	17.24 g	15.55 g		
280-21683-B-79	CP09 SB012	Moisture	T	66	1.27 g	17.35 g	15.06 g		
280-21683-B-71	MG17 SB087	Moisture	T	67	1.24 g	17.37 g	16.51 g		
280-21683-B-70	MG17 SB086	Moisture	T	68	1.29 g	17.83 g	16.93 g		
280-21683-B-63	MG09 SB069	Moisture	T	69	1.30 g	17.53 g	16.19 g		
280-21683-A-84	CP11 SB16A	Moisture	T	70	1.31 g	17.93 g	15.92 g		

Batch Notes	
Balance ID	H31422 No Unit
Date samples were placed in the oven	10/20/11
Oven Temp when samples are put in oven	103 Degrees C
Time samples were place in the oven	1300
Date samples were removed from oven	10/21/11
Oven Temp when samples removed from oven	101 Degrees C
Time Samples were removed from oven	0645
Oven ID	D
ID number of the thermometer	Moist ove
Uncorrected In Temperature	103 Celsius
Uncorrected Out Temperature	101 Celsius

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

amec UXB

ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record/Analysis Request

000413

Temperature of samples upon lab arrival: ______

Page 1 of 3

Issuing AMEC Office: Knoxville
AMEC Office Address: 10239 Technology Drive, Knoxville, TN 37932

Project Name: Martha's Vineyard RI
Job No.: 562910000
Project Manager: D. Sharp
Phone No.: (865) 671-6774
Sampler (s): B. Owens, N Barnes
Laboratory Name/Address: Test America Denver, 4955 Yarrow St, Arvada, CO 80002
Contact: Joni Blankfield
Phone: (303) 736-0100
Fax:

ANALYSIS

Sample ID	Station ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	8321B	6020A		NOTES
						Preservative (HCl, HNO_3, Ice, etc.)				~~Incremental Soil~~
S016	MG19	1315	10/13/11	reg	soil	0"-2"	1	1	- One bag	Incremental Soil
S017	MG19	1653	10/13/11	reg	soil	0"-2"	1	1	- One bag	Incremental Soil
S018	MG19	0945	10/14/11	reg	soil	0"-2"	1	1	- One bag	Incremental Soil
SB090	MG20	1555	10/13/11	reg	soil	2"-12"	1	1		Discrete (4oz)
SB091	MG20	1625	10/13/11	reg	soil	12"-18"	1	1		Discrete (4oz)
SB094	MG22	1646	10/13/11	reg	soil	2"-12"	1	1		Discrete (4oz)
SB095	MG22	1657	10/13/11	reg	soil	12"-18"	1	1		Discrete (4oz)
SB096	MG22	1646	10/13/11	reg	soil	12"-18"	1	1		
SB107	MG27	1017	10/14/11	reg	soil		1	1		
SB106	MG27	1009	10/14/11	reg	soil		1	1		
SB102	MG25	1029	10/14/11	reg	soil		1	1		
SB099	MG23	0858	10/14/11	reg	soil		1	1		
SB103	MG25	1033	10/14/11	reg	soil		1	1		
SB098	MG23	0845	10/14/11	reg	soil		1	1 DS		
						Total # of Containers	~~15~~ 15	+ 3	15 bags	

NOTES: * Use 8330B prep for IS016, IS017, IS018, No grinding for 6020A samples for IS016, IS017, IS018 DS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: Donna Sharp	Signature: [signature]	Signature: [signature]	~~Received by~~ [signature]
Printed Name: Donna Sharp	Printed Name: Norm Barnes	Printed Name: Norm Barnes	
Firm: AMEC	Firm: AMEC	Firm: AMEC	TAD
Date/Time: 10/14/11, 1610	Date/Time: 10/17/11 0800	Date/Time: 10/17/11 1000	10/18/11 0900

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt ______

Drinking Water? Yes ☐ No ☑

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client: (UXB) AMEC	Project Manager: D. Sharp	Date: 10/14/11	Chain of Custody Number: 209878
Address: 10239 Technology Dr.	Telephone Number (Area Code)/Fax Number: 865-603-9863	Lab Number:	Page 2 of 3
City: Knoxville State: TN Zip Code: 37932	Site Contact: D. Sharp Lab Contact: J. Blankfield		
Project Name and Location (State): Martha's Vineyard RI	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)		Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8321B	6020A	Special Instructions/ Conditions of Receipt
SB09[illegible]3	MG-21	10/14/11	0911				✓							1	1	Discrete soil
SB100	MG-24	10/14/11	0927				✓							1	1	
SB092	MG-21	10/14/11	0905				✓							1	1	
SB123	MG-35	10/14/11	1029				✓							1	1	
SB105	MG-26	10/14/11	0952				✓							1	1	
SB101	MG-24	10/14/11	0933				✓							1	1	
SB107	MG-27	10/14/11	1017				✓							1	1	
SB124	MG-35	10/14/11	1130				✓							1	1	
SB125	MG-35	10/14/11	1130				✓							1	1	
SB126	MG-36	10/14/11	1146				✓							1	1	
SB127	MG-36	10/14/11	1156				✓							1	1	
SB115	MG-32	10/14/11	1410				✓							1	1	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☑ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☑ 14 Days ☐ 21 Days ☐ Other ______

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Dana Sharp	10/14/11	1610	1. Received By: N. Barnes	10/17/11	0800
2. Relinquished By: [signature]	10/17/11	1000	2. Received By: [signature]	10/18/11	0900
3. Relinquished By:			3. Received By:		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4124 (1007)

Temperature on Receipt ______

Drinking Water? Yes ☐ No ☑

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client: (UXB) AMEC	Project Manager: D. Sharp	Date: 10/14/11	Chain of Custody Number: 209879
Address: 10239 Technology Dr.	Telephone Number (Area Code)/Fax Number: 865-603-9863	Lab Number:	Page 3 of 3
City: Knoxville · State: TN · Zip Code: 37932	Site Contact: D Sharp · Lab Contact: J. Blankfeld		
Project Name and Location (State): Martha's Vineyard RI	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH		8321B	6020A	Special Instructions/ Conditions of Receipt
SB116 MG32	10/14/11	1420				✓									1	1	Discrete Soil

Matrix: Air, Aqueous, Sed., Soil · Containers & Preservatives · Analysis (Attach list if more space is needed)

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal
☐ Return To Client ☑ Disposal By Lab ☑ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☑ 14 Days ☐ 21 Days ☐ Other ______

QC Requirements (Specify)

Relinquished By	Date	Time	Received By	Date	Time
1. Relinquished By: [signature]	10/14/11	1610	1. Received By: [signature]	10/17/11	0800
2. Relinquished By: [signature]	10/17/11	1000	2. Received By: [signature]	10/18/11	0900
3. Relinquished By:			3. Received By:		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

amec

ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record/Analysis Request

000411

Temperature of samples upon lab arrival: _______

Issuing AMEC Office: Knoxville
AMEC Office Address: 10239 Technology Drive, Knoxville, TN 37932

Project Name: D. Sharpy
Job No.: 562910000
Project Manager: Marthas Vineyard/RI
Phone No.: (865) 671-6774 / 865-603-9853
Sampler (s): N Barnes, B Owens, D. Sharp
Laboratory Name/Address: Joni Blankfield, TestAmerica Denver, 4955 Yarrow St, Arvada CO 80002
Contact:
Phone: 303-736-0100
Fax:

Sample ID	Station ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	8321B	6020A									NOTES
						Preservative (HCl, HNO_3, Ice, etc.)											
MG33	SB117	0841	10/15/11	reg	soil	6"-14"	1	1									
MG33	SB119	0841			soil	6"-14"	1	1									
MG33	SB118	0853				14"-18"	1	1									
MG34	SB121	0906				4"-12"	1	1									
MG34	SB122	0915				12"-18"	1	1									
MG31	SB113	0926				3"-12"	1	1									
MG31	SB114	0933				12"-16"	1	1									
MG30	SB111	0945				3"-12"	1	1									
MG30	SB112 DS	0951				12"-18"	1	1									
MG29	SB ~~DE~~ 109	1000				3"-12"	1	1									
MG29	SB ~~DE~~ 110	1005				12"-18"	1	1									
MG06	SB062 DS	1311				3"-12"	1	1									
MG06	SB063	1316				12-18"	1	1									
MG06	SB064	1316				12-18"	1	1									
						Total # of Containers	14	14									

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: [signature]	Signature: [signature]	Signature:	
Printed Name: Norm Barnes	Printed Name: D. Philipp	Printed Name:	
Firm: AMEC	Firm: TAD	Firm:	
Date/Time: 10/17/11	Date/Time: 10/18/11 0900	Date/Time:	

amec

ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record/Analysis Request

000412

Temperature of samples upon lab arrival: ______

Issuing AMEC Office: Knoxville
AMEC Office Address: 10239 Technology Drive, Knoxville, TN 37932

Project Name: Martha's Vineyard RI | Job No.: 5602910000
Project Manager: D. Sharp | Phone No.: (865) 671-6774
Sampler (s):

Laboratory Name/Address: Test America Denver, 4955 Yarrow St., Arvada, CO 80002
Contact: Joni Blakfield
Phone: 303-736-0100
Fax:

Sample ID	Station ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	8321B	6020A									NOTES
						Preservative (HCl, HNO$_3$, Ice, etc.)											
SB060	MG05	1328	10/15/11	reg	soil	2"-12"	1	1									
SB061	MG05	1330				12-18"	1	1									
SB058	MG04	1339				2"-12"	1	1									
SB059	MG04	1341				12-18"	1	1									
SB056	MG03	1351				2-12"	1	1									
SB057	MG03	1353				12-18"	1	1									
SB054	MG02	1404				2-12"	1	1									
SB055	MG02	1406				12-18"	1	1									
SB081	MG15	1419				2-12"	1	1									
SB082	MG15	1422				12-18"	1	1									
SB073	MG12	1440				2-12"	1	1									
SB075	MG12	1440				2-12"	1	1									
SB074	MG12	1443				12-18"	1	1									
SB071	MG11	1455				2-12"	1	1									
						Total # of Containers	14	14									

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: [signature]	Signature: [signature]	Signature:	
Printed Name: Norm Barnes	Printed Name: N. Phillips	Printed Name:	
Firm: AMEC	Firm: TAD	Firm:	
Date/Time: 10/17/11 1000	Date/Time: 10/18/11 0900	Date/Time:	

11/07/2011

amec

ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record/Analysis Request

000410

Temperature of samples upon lab arrival: ______

Issuing AMEC Office: Knoxville
AMEC Office Address: 10239 Technology Drive, Knoxville, TN 37932

Project Name: Martha's Vineyard RI
Job No.: 562910000
Project Manager: D. Sharp
Phone No.: (865) 671-6774
Sampler (s): N Barnes, B Owens, D Sharp
Laboratory Name/Address: TestAmerica Denver, 4955 Yarrow St. Arvada, CO 80002
Contact: Joni Blankfield
Phone: 303-736-0100
Fax:

Sample ID	Station ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	8321B	6020A								NOTES
						Preservative (HCl, HNO_3, Ice, etc.)										
SB072	MG11	1457	10/15/11	reg	soil	12-18"	1	1								
SB079	MG14	1512				4-12"	1	1								
SB080	MG14	1515				12-17"	1	1								
SB077	MG13	1524				2-12"	1	1								
SB078	MG13	1526				12-18"	1	1								
SB083	MG16	1537				2-12"	1	1								
SB084	MG16	1540				12-18"	1	1								
SB069	MG09	1601				4-12"	1	1								
SB070	MG09	1603				12-18"	1	1								
SB067	MG08	1614				2-12"	1	1								
SB068	MG08	1617				12-18"	1	1								
SB065	MG07	1628				2-12"	1	1								
SB066	MG07	1629				12-18"	1	1								
SB085	MG17	1641				4-12"	1	1								
						Total # of Containers	14	14								

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: [signature]	Signature: [signature]	Signature:	
Printed Name: Norm Barnes	Printed Name: N. Philip	Printed Name:	
Firm: AMEC	Firm: TAD	Firm:	
Date/Time: 10/17/11 1000	Date/Time: 10/18/11 0900	Date/Time:	

amec

ENVIRONMENT & INFRASTRUCTURE

4-7, 4-3, 1.3
5-7, 4-8, 5.0

Chain of Custody Record/Analysis Request

000409

Temperature of samples upon lab arrival: ______

Issuing AMEC Office: Knoxville
AMEC Office Address: 10239 Technology Drive, Knoxville, TN 37932

RI 10/14

Project Name: Martha's Vineyard RI	Job No.: 56910000
Project Manager: D. Sharp	Phone No.: (865) 671-6774
Sampler (s): N Barnes, B Owens, D. Sharp	
Laboratory Name/Address: Test America Denver, 4955 Yarrow St. Arvada, CO 80002	Contact: Joni Blankfield
	Phone: 303-736-0100
	Fax:

Sample ID	Station ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	8321B	6020A									NOTES
						Preservative (HCl, HNO_3, Ice, etc.)											
SB086	MG17	1643	10/15/11	reg	soil	12-18"	1	1									
SB087	MG17	1643				12-18"	1	1									
SB088	MG18	1656				2-12"	1	1									
SB089	MG18	1658				12-18"	1	1									
						Total # of Containers	4	4									

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: [signature]	Signature: [signature]	Signature:	
Printed Name: Norm Barnes	Printed Name: N. Phillipp	Printed Name:	
Firm: AMEC	Firm: TAD	Firm:	
Date/Time: 10/17/11 1000	Date/Time: 10/18/11 0900	Date/Time:	

amec

ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record/Analysis Request

000406

Temperature of samples upon lab arrival: _______

Issuing AMEC Office: Knoxville

AMEC Office Address: 10239 Technology Drive, Knoxville, TN 37932

Project Name: Martha's Vineyard RI | Job No.: 562910000

Project Manager: D. Sharp | Phone No.: (865) 671-6774 865-603-9863

Sampler (s): N Barnes, B Owens, D. Sharp,

Laboratory Name/Address: TestAmerica ~~4599 Technology~~ DCDS 4955 Yarrow St. Arvada, CO 80002

Contact: Jori Blankfeld

Phone: 303-736-0100

Fax:

Station ID ~~Sample ID~~	Sample ID ~~Station ID~~	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	8321B	6020A	NOTES
						Preservative (HCl, HNO_3, Ice, etc.)			*IS samples IS01, IS02, and IS03 will be prepared using 8330B prep. *Do not grind IS samples for 6020a.
CP01	IS01	1150	10/16/11	reg.	soil	0"-2"	—	—	Incremental Sample
CP01	IS02	1321		reg	soil	0"-2"	—	—	Incremental Sample
CP01	IS03	1432				0"-2"	—	—	Incremental Sample
CP10	SB014	1120				2-12"	1	1	
CP10	SB015	1124				12-18"	1	1	
CP09	SB012	1140				2"-12"	1	1	
CP09	SB013	1142				12-18"	1	1	
CP08	SB009	~~1155~~ DS				2-12"	1	1	
CP08	SB010	1159				12"-18"	1	1	
CP08	SB011	1159				12"-18"	1	1	
CP11	SB16a	1241				2-12"	1	1	
CP11	SB16b	1243				12-18"	1	1	
CP07	SB007	1300				2-12"	1	1	
CP07	SB008	1303				12"-18"	1	1	
						Total # of Containers	11	11	+ 3 bags ~~for~~ (IS)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: [signature]	Signature: [signature]	Signature:	
Printed Name: Norm Barnes	Printed Name: N. Philipp	Printed Name:	
Firm: AMEC	Firm: TAD	Firm:	
Date/Time: 10/17/11 1000	Date/Time: 10/18/11 0900	Date/Time:	

amec

ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record/Analysis Request

000407

Temperature of samples upon lab arrival: ______

Issuing AMEC Office: Knoxville

AMEC Office Address: 10239 Technology Drive
Knoxville, TN 37932

Project Name: Martha's Vineyard RI | Job No.: 562910000

Project Manager: D. Sharp | Phone No.: (865) 671-6774 865-603-9865

Sampler (s): N Barnes, B Owens, D. Sharp

Laboratory Name/Address: TestAmerica Denver
4955 Yarrow St.
Arvada, CO 80002

Contact: Joni Blankfield

Phone: 303-736-0100

Fax:

Station ID ~~Sample ID~~	Sample ID ~~Station ID~~	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	8321B	6020A									NOTES
						Preservative (HCl, HNO_3, Ice, etc.)											
CP04	SB001	1320	10/16/11	reg	soil	2-12"	1	1									
CP04	SB002	1325	↓	↓	↓	12-18"	1	1									
CP06	SB005	1340	↓	↓	↓	2-12"	1	1									
CP06	SB006	1343	↓	↓	↓	12-18"	1	1									
CP05	SB003	1401	↓	↓	↓	2-12"	1	1									
CP05	SB004	1404	↓	↓	↓	12-18"	1	1									
CP12	SB017	1522	↓	↓	↓	2-12"	1	1									
CP12	SB018	1525	↓	↓	↓	12-18"	1	1									
						Total # of Containers	8	8									

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: [signature]	Signature: [signature]	Signature:	
Printed Name: Norm Barnes	Printed Name: N. Phillips	Printed Name:	
Firm: AMEC	Firm: TAD	Firm:	
Date/Time: 10/17/11 1000	Date/Time: 10/18/11 0900	Date/Time:	

Login Sample Receipt Checklist

Client: UXB International, Inc.

Job Number: 280-21683-1

Login Number: 21683

List Source: TestAmerica Denver

List Number: 1

Creator: Philipp, Nicholas A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	SB104 received, not on COC. Sample SB107 listed on COC twice.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-21902-1

Job Description: Martha's Vineyard

For:
UXB International, Inc.
169R Main Street, Second Floor
Flemington, NJ 08822

Attention: Mr. Michael Warminsky

Joni Blankfield

Approved for release.
Joni S Blankfield
Project Manager II
11/11/2011 1:21 PM

Joni S Blankfield
Project Manager II
joni.blankfield@testamericainc.com
11/11/2011

cc: Ms. Donna Sharp

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE
Client: UXB International, Inc.
Project: Martha's Vineyard
Report Number: 280-21902-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All references to reporting limits and method detection limits in this report are equivalent to the limit of quantitation (LOQ) and detection limit (DL).

RECEIPT

The samples were received on 10/21/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 3.1°C, 2.5°C, 4.6°C, 2.8°C and 2.9°C.

There were several issues with the groundwater samples that were received; per client instructions on October 25, 2011, all groundwater analyses (samples 280-21902-24 through 280-21902-34) were cancelled.

Per client instructions, samples CP23 SB045 and CB13 SB022 were designated MS/MSD volume for samples CP23 SB043 (280-21902-52) and CP13 SB020 (280-21902-61).

EXPLOSIVES (Incremental Sampling and R&P Grinding)

Samples CP03 IS009 (280-21902-53), CP03 IS008 (280-21902-54), CP03 IS007 (280-21902-55), CP02 IS004 (280-21902-56), CP02 IS005 (280-21902-57) and CP02 IS006 (280-21902-58) were analyzed for explosives in accordance with EPA SW-846 Method 8321B. The samples were dried on 10/22/2011, prepared on 10/27/2011 and analyzed on 11/02/2011.

The following samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve: (280-21902-58 MS), (280-21902-58 MSD), CP02 IS004 (280-21902-56), CP02 IS005 (280-21902-57), CP02 IS006 (280-21902-58), CP03 IS007 (280-21902-55), CP03 IS008 (280-21902-54), CP03 IS009 (280-21902-53). This material was removed and not extracted. The material appeared to be rocks and vegetation.

The continuing calibration verification (CCV) for 2,6-Dinitrotoluene (22%), 2-Amino-4,6-dinitrotoluene (24%) and 4-Amino-2,6-Dinitrotoluene (22%) associated with analytical batch 280-94252 recovered above the upper control limit (20%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported and qualified accordingly. The associated samples include: CP03 IS009 (280-21902-53), CP03 IS008 (280-21902-54), CP03 IS007 (280-21902-55), CP02 IS004 (280-21902-56), CP02 IS005 (280-21902-57) and CP02 IS006 (280-21902-58).

The Grinding blank (GB 280-92116/1-B) associated with prep batch 280-93548 contained 2,4,6-Trinitrotoluene (0.0998 mg/Kg) greater than the limit of quantitation (0.092 mg/Kg). The samples associated with this grinding blank were non-detect for this analyte; therefore, the data are reported.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 280-92116, performed on sample CP02 IS006 (280-21902-58) were outside control limits for 2,4,6-trinitrotoluene (47%/48%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly.

No other difficulties were encountered during the explosives analyses.

All other quality control parameters were within the acceptance limits.

EXPLOSIVES

Samples TP05 SD018 (280-21902-1), TP06 SD019 (280-21902-2), TP07 SD020 (280-21902-3), TP08 SD021 (280-21902-4), TP09 SD022 (280-21902-5), TP10 SD023 (280-21902-6), TP11 SD024 (280-21902-7), TP12 SD025 (280-21902-8), TP13 SD026 (280-21902-9), TP14 SD027 (280-21902-10), TP14 SD028 (280-21902-11), TP15 SD029 (280-21902-12), TP16 SD030 (280-21902-13), TP17 SD031 (280-21902-14), TP18 SD032 (280-21902-15), TP19 SD033 (280-21902-16), TP20 SD034 (280-21902-17), TP21 SD035 (280-21902-18), TP21 SD036 (280-21902-19), TP01 SB128 (280-21902-20), TP01 SB129 (280-21902-21), TP01 SB130 (280-21902-22), TP01 SB131 (280-21902-23), CP27 SB052 (280-21902-35), CP27 SB053 (280-21902-36), CP22 SB040 (280-21902-37), CP22 SB041 (280-21902-38), CP25 SB048 (280-21902-39), CP25 SB049 (280-21902-40), CP24 SB046 (280-21902-41), CP24 SB047 (280-21902-42), CP26 SB050 (280-21902-43), CP26 SB051 (280-21902-44), CP21 SB038 (280-21902-45), CP21 SB039

(280-21902-46), CP20 SB037 (280-21902-47), CP20 SB036 (280-21902-48), CP23 SB042 (280-21902-50), CP23 SB044 (280-21902-51), CP23 SB043 (280-21902-52), CP13 SB019 (280-21902-59), CP13 SB021 (280-21902-60), CP13 SB020 (280-21902-61), CP14 SB023 (280-21902-63), CP14 SB024 (280-21902-64), CP18 SB031 (280-21902-65), CP18 SB032 (280-21902-66), CP18 SB033 (280-21902-67), CP15 SB025 (280-21902-68), CP15 SB026 (280-21902-69), CP16 SB027 (280-21902-70), CP16 SB028 (280-21902-71), CP19 SB034 (280-21902-72), CP19 SB035 (280-21902-73), CP17 SB029 (280-21902-74) and CP17 SB030 (280-21902-75) were analyzed for explosives in accordance with EPA SW-846 Method 8321B. The samples were dried on 10/22/2011, prepared on 10/25/2011 and 10/27/2011 and analyzed on 11/03/2011 and 11/04/2011.

All samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve. This material was removed and not extracted. The material appeared to be rocks and vegetation.

The matrix spike duplicate (MSD) recovery for prep batch 280-93507, performed on sample TP11 SD024 (280-21902-7) were outside control limits for 2,4,6-trinitrotoluene (59%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly.

No other difficulties were encountered during the explosives analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS with Incremental Preparation

Samples CP03 IS009 (280-21902-53), CP03 IS008 (280-21902-54), CP03 IS007 (280-21902-55), CP02 IS004 (280-21902-56), CP02 IS005 (280-21902-57) and CP02 IS006 (280-21902-58) were analyzed for Total Metals in accordance with EPA SW-846 Method 6020. The samples were dried on 10/22/2011, and prepared and analyzed on 11/08/2011.

The interference check standard solution (ICSA) associated with analytical batch 280-95436 was above the DoD acceptance criteria for antimony (> limit of detection (LOD)). It is believed that the solution contains trace impurities of this element and the result is not due to matrix interference. The result is consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged “Q” for this analyte.

Nickel was detected in method blank MB 280-95210/1-A at a level that was above the detection limit but below the LOQ. The value should be considered an estimate, and has been flagged “J”. However, because the result concentration was less than ½ the LOQ, no corrective action was necessary.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 280-92658, performed on sample CP03 IS009 (280-21902-53) were outside control limits for antimony (14%/13%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly. The parent sample for the serial dilution (SD) had an antimony concentration less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recovery for this batch was within the established control limits for antimony.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples TP05 SD018 (280-21902-1), TP06 SD019 (280-21902-2), TP07 SD020 (280-21902-3), TP08 SD021 (280-21902-4), TP09 SD022 (280-21902-5), TP10 SD023 (280-21902-6), TP11 SD024 (280-21902-7), TP12 SD025 (280-21902-8), TP13 SD026 (280-21902-9), TP14 SD027 (280-21902-10), TP14 SD028 (280-21902-11), TP15 SD029 (280-21902-12), TP16 SD030 (280-21902-13), TP17 SD031 (280-21902-14), TP18 SD032 (280-21902-15), TP19 SD033 (280-21902-16), TP20 SD034 (280-21902-17), TP21 SD035 (280-21902-18), TP21 SD036 (280-21902-19), TP01 SB128 (280-21902-20), TP01 SB129 (280-21902-21), TP01 SB130 (280-21902-22), TP01 SB131 (280-21902-23), CP27 SB052 (280-21902-35), CP27 SB053 (280-21902-36), CP22 SB040 (280-21902-37), CP22 SB041 (280-21902-38), CP25 SB048 (280-21902-39), CP25 SB049 (280-21902-40), CP24 SB046 (280-21902-41), CP24 SB047 (280-21902-42), CP26 SB050 (280-21902-43), CP26 SB051 (280-21902-44), CP21 SB038 (280-21902-45), CP21 SB039 (280-21902-46), CP20 SB037 (280-21902-47), CP20 SB036 (280-21902-48), CP23 SB042 (280-21902-50), CP23 SB044 (280-21902-51), CP23 SB043 (280-21902-52), CP13 SB019 (280-21902-59), CP13 SB021 (280-21902-60), CP13 SB020 (280-21902-61), CP14 SB023 (280-21902-63), CP14 SB024 (280-21902-64), CP18 SB031 (280-21902-65), CP18 SB032 (280-21902-66), CP18 SB033 (280-21902-67), CP15 SB025 (280-21902-68), CP15 SB026 (280-21902-69), CP16 SB027 (280-21902-70), CP16 SB028 (280-21902-71), CP19 SB034 (280-21902-72), CP19 SB035 (280-21902-73), CP17 SB029 (280-21902-74) and CP17 SB030 (280-21902-75) were analyzed for metals (ICPMS) in accordance with SW846 6020A. The samples were prepared on 11/05/2011 and 11/06/2011 and analyzed on 11/07/2011 and 11/08/2011.

The interference check standard solution (ICSA) associated with analytical batches 280-95284 and 280-95436 were above the DoD acceptance criteria for antimony (> limit of detection (LOD)). It is believed that the solution contains trace impurities of this element and the result is not due to matrix interference. The result is consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged “Q” for this analyte.

Copper, lead, nickel and zinc were detected in method blank MB 280-92642/1-A at levels that were above the detection limit but below the LOQ. The values should be considered estimates, and have been flagged “J”. However, because the result concentrations were less than ½ the LOQ, no corrective action was necessary.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries and RPD for prep batch 280-92642, performed on sample TP05 SD018 (280-21902-1) were outside control limits for antimony (15%/14%), copper (RPD 21%), lead (RPD 23%), nickel (RPD 26%) and zinc (MS 124%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly. The parent sample for the serial dilution (SD) had an antimony concentration less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recovery for this batch was within the established control limits for antimony.

Copper and Nickel were detected in method blank MB 280-92643/1-A at levels that were above the detection limit but below the LOQ. The values should be considered estimates, and have been flagged “J”. However, because the result concentrations were less than ½ the LOQ, no corrective action was necessary.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 280-92643, performed on sample CP23 SB043 (280-21902-52) were outside control limits for antimony (14%/14%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly. The parent sample for the serial dilution (SD) had antimony, copper and zinc concentration less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recoveries for this batch were within the established control limits for these metals.

Copper, lead, nickel and zinc were detected in method blank MB 280-92644/1-A at levels that were above the detection limit but below the LOQ. The values should be considered estimates, and have been flagged “J”. However, because the result concentrations were less than ½ the LOQ, no corrective action was necessary.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 280-92644, performed on sample CP13 SB020 (280-21902-61) were outside control limits for antimony (17%/16%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly. The parent sample for the serial dilution (SD) had antimony, copper and zinc concentration less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recoveries for this batch were within the established control limits for these metals.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

Pg 1 of 6

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Analysis Batch Number: 92354

Lab Sample ID: STD300 280-92354/7 IC   Client Sample ID: SMC 11-8-11

Date Analyzed: 10/21/11 10:50   Lab File ID: ex41J21009.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene	7.35	Baseline	meyera	10/21/11 11:09

8321B

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LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4 Analysis Batch Number: 94252

Lab Sample ID: CCV 280-94252/164 Client Sample ID:

Date Analyzed: 11/02/11 05:28 Lab File ID: ex41J21640.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	7.74	Baseline	meyera	11/02/11 06:55

Lab Sample ID: CCV 280-94252/184 Client Sample ID:

Date Analyzed: 11/02/11 10:01 Lab File ID: ex41J21660.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	6.69	Baseline	meyera	11/02/11 10:21

8321B

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LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Analysis Batch Number: 94612

Lab Sample ID: 280-21902-5   Client Sample ID: TP09 SD022

Date Analyzed: 11/04/11 02:08   Lab File ID: ex41J21813.d   GC Column: IonPac   ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 06:41

Lab Sample ID: 280-21902-6   Client Sample ID: TP10 SD023

Date Analyzed: 11/04/11 02:22   Lab File ID: ex41J21814.d   GC Column: IonPac   ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 06:41

Lab Sample ID: CCV 280-94612/66   Client Sample ID:

Date Analyzed: 11/04/11 02:35   Lab File ID: ex41J21815.d   GC Column: IonPac   ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.44	Split Peak	meyera	11/04/11 06:42

Lab Sample ID: 280-21902-9   Client Sample ID: TP13 SD026

Date Analyzed: 11/04/11 03:44   Lab File ID: ex41J21820.d   GC Column: IonPac   ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.44	Baseline	meyera	11/04/11 06:43
2,6-Dinitrotoluene	6.75	Baseline	meyera	11/04/11 06:43

Lab Sample ID: 280-21902-10   Client Sample ID: TP14 SD027

Date Analyzed: 11/04/11 03:57   Lab File ID: ex41J21821.d   GC Column: IonPac   ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 06:43

8321B

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LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Analysis Batch Number: 94612

Lab Sample ID: 280-21902-11   Client Sample ID: TP14 SD028

Date Analyzed: 11/04/11 04:11   Lab File ID: ex41J21822.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 06:43

Lab Sample ID: 280-21902-12   Client Sample ID: TP15 SD029

Date Analyzed: 11/04/11 04:24   Lab File ID: ex41J21823.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Split Peak	meyera	11/04/11 06:44

Lab Sample ID: CCV 280-94612/75   Client Sample ID:

Date Analyzed: 11/04/11 04:38   Lab File ID: ex41J21824.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
Nitrobenzene-d5	5.44	Baseline	meyera	11/04/11 07:49

Lab Sample ID: 280-21902-13   Client Sample ID: TP16 SD030

Date Analyzed: 11/04/11 04:52   Lab File ID: ex41J21825.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 07:48

Lab Sample ID: 280-21902-14   Client Sample ID: TP17 SD031

Date Analyzed: 11/04/11 05:06   Lab File ID: ex41J21826.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 07:48

8321B

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LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Analysis Batch Number: 94612

Lab Sample ID: 280-21902-15   Client Sample ID: TP18 SD032

Date Analyzed: 11/04/11 05:19   Lab File ID: ex41J21827.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 07:48

Lab Sample ID: 280-21902-17   Client Sample ID: TP20 SD034

Date Analyzed: 11/04/11 05:46   Lab File ID: ex41J21829.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 06:45

Lab Sample ID: 280-21902-18   Client Sample ID: TP21 SD035

Date Analyzed: 11/04/11 06:00   Lab File ID: ex41J21830.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Split Peak	meyera	11/04/11 06:45

Lab Sample ID: 280-21902-19   Client Sample ID: TP21 SD036

Date Analyzed: 11/04/11 06:13   Lab File ID: ex41J21831.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 06:46

8321B

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LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4 Analysis Batch Number: 94725

Lab Sample ID: CCV 280-94725/91 Client Sample ID:

Date Analyzed: 11/04/11 08:18 Lab File ID: ex41J21840.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 08:41

8321B

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Analysis Batch Number: 92354

Lab Sample ID: STD300 280-92354/7 IC   Client Sample ID:

Date Analyzed: 10/21/11 10:50   Lab File ID: ex41J21009.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene	7.35	Baseline	meyera	10/21/11 11:09

8321B

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4 Analysis Batch Number: 94252

Lab Sample ID: CCV 280-94252/164 Client Sample ID:

Date Analyzed: 11/02/11 05:28 Lab File ID: ex41J21640.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PETN	7.74	Baseline	meyera	11/02/11 06:55

Lab Sample ID: CCV 280-94252/184 Client Sample ID:

Date Analyzed: 11/02/11 10:01 Lab File ID: ex41J21660.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Amino-4,6-dinitrotoluene	6.69	Baseline	meyera	11/02/11 10:21

8321B

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Analysis Batch Number: 94612

Lab Sample ID: 280-21902-5   Client Sample ID: TP09 SD022

Date Analyzed: 11/04/11 02:08   Lab File ID: ex41J21813.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 06:41

Lab Sample ID: 280-21902-6   Client Sample ID: TP10 SD023

Date Analyzed: 11/04/11 02:22   Lab File ID: ex41J21814.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 06:41

Lab Sample ID: CCV 280-94612/66   Client Sample ID:

Date Analyzed: 11/04/11 02:35   Lab File ID: ex41J21815.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.44	Split Peak	meyera	11/04/11 06:42

Lab Sample ID: 280-21902-9   Client Sample ID: TP13 SD026

Date Analyzed: 11/04/11 03:44   Lab File ID: ex41J21820.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.44	Baseline	meyera	11/04/11 06:43
2,6-Dinitrotoluene	6.75	Baseline	meyera	11/04/11 06:43

Lab Sample ID: 280-21902-10   Client Sample ID: TP14 SD027

Date Analyzed: 11/04/11 03:57   Lab File ID: ex41J21821.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 06:43

8321B

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4 Analysis Batch Number: 94612

Lab Sample ID: 280-21902-11 Client Sample ID: TP14 SD028

Date Analyzed: 11/04/11 04:11 Lab File ID: ex41J21822.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 06:43

Lab Sample ID: 280-21902-12 Client Sample ID: TP15 SD029

Date Analyzed: 11/04/11 04:24 Lab File ID: ex41J21823.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Split Peak	meyera	11/04/11 06:44

Lab Sample ID: CCV 280-94612/75 Client Sample ID:

Date Analyzed: 11/04/11 04:38 Lab File ID: ex41J21824.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.44	Baseline	meyera	11/04/11 07:49

Lab Sample ID: 280-21902-13 Client Sample ID: TP16 SD030

Date Analyzed: 11/04/11 04:52 Lab File ID: ex41J21825.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 07:48

Lab Sample ID: 280-21902-14 Client Sample ID: TP17 SD031

Date Analyzed: 11/04/11 05:06 Lab File ID: ex41J21826.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 07:48

8321B

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4 Analysis Batch Number: 94612

Lab Sample ID: 280-21902-15 Client Sample ID: TP18 SD032

Date Analyzed: 11/04/11 05:19 Lab File ID: ex41J21827.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 07:48

Lab Sample ID: 280-21902-17 Client Sample ID: TP20 SD034

Date Analyzed: 11/04/11 05:46 Lab File ID: ex41J21829.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 06:45

Lab Sample ID: 280-21902-18 Client Sample ID: TP21 SD035

Date Analyzed: 11/04/11 06:00 Lab File ID: ex41J21830.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Split Peak	meyera	11/04/11 06:45

Lab Sample ID: 280-21902-19 Client Sample ID: TP21 SD036

Date Analyzed: 11/04/11 06:13 Lab File ID: ex41J21831.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 06:46

8321B

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Analysis Batch Number: 94725

Lab Sample ID: CCV 280-94725/91   Client Sample ID:

Date Analyzed: 11/04/11 08:18   Lab File ID: ex41J21840.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.47	Baseline	meyera	11/04/11 08:41

8321B

SAMPLE SUMMARY

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-21902-1	TP05 SD018	Solid	10/19/2011 1110	10/21/2011 0930
280-21902-2	TP06 SD019	Solid	10/19/2011 1115	10/21/2011 0930
280-21902-3	TP07 SD020	Solid	10/19/2011 1120	10/21/2011 0930
280-21902-4	TP08 SD021	Solid	10/19/2011 1130	10/21/2011 0930
280-21902-5	TP09 SD022	Solid	10/19/2011 1125	10/21/2011 0930
280-21902-6	TP10 SD023	Solid	10/19/2011 1135	10/21/2011 0930
280-21902-7	TP11 SD024	Solid	10/19/2011 1140	10/21/2011 0930
280-21902-8	TP12 SD025	Solid	10/19/2011 1145	10/21/2011 0930
280-21902-9	TP13 SD026	Solid	10/19/2011 1150	10/21/2011 0930
280-21902-10	TP14 SD027	Solid	10/19/2011 0955	10/21/2011 0930
280-21902-11	TP14 SD028	Solid	10/19/2011 0955	10/21/2011 0930
280-21902-12	TP15 SD029	Solid	10/19/2011 1030	10/21/2011 0930
280-21902-13	TP16 SD030	Solid	10/19/2011 1020	10/21/2011 0930
280-21902-14	TP17 SD031	Solid	10/19/2011 0948	10/21/2011 0930
280-21902-15	TP18 SD032	Solid	10/19/2011 1045	10/21/2011 0930
280-21902-16	TP19 SD033	Solid	10/19/2011 1040	10/21/2011 0930
280-21902-17	TP20 SD034	Solid	10/19/2011 1105	10/21/2011 0930
280-21902-18	TP21 SD035	Solid	10/19/2011 1055	10/21/2011 0930
280-21902-19	TP21 SD036	Solid	10/19/2011 1055	10/21/2011 0930
280-21902-20	TP01 SB128	Solid	10/19/2011 1330	10/21/2011 0930
280-21902-21	TP01 SB129	Solid	10/19/2011 1332	10/21/2011 0930
280-21902-22	TP01 SB130	Solid	10/19/2011 1335	10/21/2011 0930
280-21902-23	TP01 SB131	Solid	10/19/2011 1345	10/21/2011 0930
280-21902-35	CP27 SB052	Solid	10/18/2011 1355	10/21/2011 0930
280-21902-36	CP27 SB053	Solid	10/18/2011 1405	10/21/2011 0930
280-21902-37	CP22 SB040	Solid	10/18/2011 1340	10/21/2011 0930
280-21902-38	CP22 SB041	Solid	10/18/2011 1350	10/21/2011 0930
280-21902-39	CP25 SB048	Solid	10/18/2011 1325	10/21/2011 0930
280-21902-40	CP25 SB049	Solid	10/18/2011 1335	10/21/2011 0930
280-21902-41	CP24 SB046	Solid	10/18/2011 1300	10/21/2011 0930
280-21902-42	CP24 SB047	Solid	10/18/2011 1315	10/21/2011 0930
280-21902-43	CP26 SB050	Solid	10/18/2011 1235	10/21/2011 0930
280-21902-44	CP26 SB051	Solid	10/18/2011 1240	10/21/2011 0930
280-21902-45	CP21 SB038	Solid	10/18/2011 1220	10/21/2011 0930
280-21902-46	CP21 SB039	Solid	10/18/2011 1228	10/21/2011 0930
280-21902-47	CP20 SB037	Solid	10/18/2011 1330	10/21/2011 0930
280-21902-48	CP20 SB036	Solid	10/18/2011 1415	10/21/2011 0930
280-21902-50	CP23 SB042	Solid	10/18/2011 1440	10/21/2011 0930
280-21902-51	CP23 SB044	Solid	10/18/2011 1440	10/21/2011 0930
280-21902-52	CP23 SB043	Solid	10/18/2011 1450	10/21/2011 0930
280-21902-52MS	CP23 SB043	Solid	10/18/2011 1450	10/21/2011 0930
280-21902-52MSD	CP23 SB043	Solid	10/18/2011 1450	10/21/2011 0930
280-21902-53	CP03 IS009	Solid	10/18/2011 1428	10/21/2011 0930
280-21902-54	CP03 IS008	Solid	10/18/2011 1345	10/21/2011 0930
280-21902-55	CP03 IS007	Solid	10/18/2011 1245	10/21/2011 0930
280-21902-56	CP02 IS004	Solid	10/17/2011 1337	10/21/2011 0930
280-21902-57	CP02 IS005	Solid	10/17/2011 1436	10/21/2011 0930
280-21902-58	CP02 IS006	Solid	10/17/2011 1517	10/21/2011 0930
280-21902-59	CP13 SB019	Solid	10/17/2011 1246	10/21/2011 0930
280-21902-60	CP13 SB021	Solid	10/17/2011 1246	10/21/2011 0930
280-21902-61	CP13 SB020	Solid	10/17/2011 1250	10/21/2011 0930
280-21902-61MS	CP13 SB020	Solid	10/17/2011 1250	10/21/2011 0930
280-21902-61MSD	CP13 SB020	Solid	10/17/2011 1250	10/21/2011 0930

SAMPLE SUMMARY

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-21902-63	CP14 SB023	Solid	10/17/2011 1306	10/21/2011 0930
280-21902-64	CP14 SB024	Solid	10/17/2011 1310	10/21/2011 0930
280-21902-65	CP18 SB031	Solid	10/17/2011 1330	10/21/2011 0930
280-21902-66	CP18 SB032	Solid	10/17/2011 1336	10/21/2011 0930
280-21902-67	CP18 SB033	Solid	10/17/2011 1336	10/21/2011 0930
280-21902-68	CP15 SB025	Solid	10/17/2011 1355	10/21/2011 0930
280-21902-69	CP15 SB026	Solid	10/17/2011 1357	10/21/2011 0930
280-21902-70	CP16 SB027	Solid	10/17/2011 1420	10/21/2011 0930
280-21902-71	CP16 SB028	Solid	10/17/2011 1440	10/21/2011 0930
280-21902-72	CP19 SB034	Solid	10/17/2011 1442	10/21/2011 0930
280-21902-73	CP19 SB035	Solid	10/17/2011 1444	10/21/2011 0930
280-21902-74	CP17 SB029	Solid	10/17/2011 1453	10/21/2011 0930
280-21902-75	CP17 SB030	Solid	10/17/2011 1503	10/21/2011 0930

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21902-1	**TP05 SD018**					
Antimony		0.027	Q J	0.28	mg/Kg	6020A
Copper		5.2	J	3.5	mg/Kg	6020A
Lead		11	J	0.14	mg/Kg	6020A
Nickel		7.4	J	0.48	mg/Kg	6020A
Zinc		34	J	3.5	mg/Kg	6020A
Percent Moisture		38		0.10	%	Moisture
Percent Solids		62		0.10	%	Moisture
280-21902-2	**TP06 SD019**					
Antimony		0.019	J Q	0.26	mg/Kg	6020A
Copper		3.8		3.3	mg/Kg	6020A
Lead		7.8		0.13	mg/Kg	6020A
Nickel		5.2		0.46	mg/Kg	6020A
Zinc		25		3.3	mg/Kg	6020A
Percent Moisture		35		0.10	%	Moisture
Percent Solids		65		0.10	%	Moisture
280-21902-3	**TP07 SD020**					
Copper		2.2	J	3.2	mg/Kg	6020A
Lead		5.2		0.13	mg/Kg	6020A
Nickel		3.1		0.44	mg/Kg	6020A
Zinc		15		3.2	mg/Kg	6020A
Percent Moisture		32		0.10	%	Moisture
Percent Solids		68		0.10	%	Moisture
280-21902-4	**TP08 SD021**					
Antimony		0.034	J Q	0.43	mg/Kg	6020A
Copper		15		5.4	mg/Kg	6020A
Lead		32		0.22	mg/Kg	6020A
Nickel		21		0.76	mg/Kg	6020A
Zinc		93		5.4	mg/Kg	6020A
Percent Moisture		56		0.10	%	Moisture
Percent Solids		44		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21902-5	**TP09 SD022**					
Antimony		0.037	J Q	0.47	mg/Kg	6020A
Copper		13		5.9	mg/Kg	6020A
Lead		28		0.23	mg/Kg	6020A
Nickel		18		0.82	mg/Kg	6020A
Zinc		88		5.9	mg/Kg	6020A
Percent Moisture		59		0.10	%	Moisture
Percent Solids		41		0.10	%	Moisture
280-21902-6	**TP10 SD023**					
Antimony		0.033	J Q	0.47	mg/Kg	6020A
Copper		14		5.8	mg/Kg	6020A
Lead		30		0.23	mg/Kg	6020A
Nickel		19		0.82	mg/Kg	6020A
Zinc		92		5.8	mg/Kg	6020A
Percent Moisture		59		0.10	%	Moisture
Percent Solids		41		0.10	%	Moisture
280-21902-7	**TP11 SD024**					
Copper		4.6		3.0	mg/Kg	6020A
Lead		5.8		0.12	mg/Kg	6020A
Nickel		3.0		0.42	mg/Kg	6020A
Zinc		16		3.0	mg/Kg	6020A
Percent Moisture		31		0.10	%	Moisture
Percent Solids		69		0.10	%	Moisture
280-21902-8	**TP12 SD025**					
Copper		16		5.9	mg/Kg	6020A
Lead		34		0.24	mg/Kg	6020A
Nickel		21		0.82	mg/Kg	6020A
Zinc		100		5.9	mg/Kg	6020A
Percent Moisture		60		0.10	%	Moisture
Percent Solids		40		0.10	%	Moisture
280-21902-9	**TP13 SD026**					
Copper		12		5.3	mg/Kg	6020A
Lead		26		0.21	mg/Kg	6020A
Nickel		15		0.75	mg/Kg	6020A
Zinc		85		5.3	mg/Kg	6020A
Percent Moisture		57		0.10	%	Moisture
Percent Solids		43		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21902-10	**TP14 SD027**					
Copper		1.5	J	3.0	mg/Kg	6020A
Lead		3.3		0.12	mg/Kg	6020A
Nickel		2.0		0.42	mg/Kg	6020A
Zinc		10		3.0	mg/Kg	6020A
Percent Moisture		28		0.10	%	Moisture
Percent Solids		72		0.10	%	Moisture
280-21902-11	**TP14 SD028**					
Copper		1.2	J	2.9	mg/Kg	6020A
Lead		2.9		0.12	mg/Kg	6020A
Nickel		1.7		0.41	mg/Kg	6020A
Zinc		8.7		2.9	mg/Kg	6020A
Percent Moisture		25		0.10	%	Moisture
Percent Solids		75		0.10	%	Moisture
280-21902-12	**TP15 SD029**					
Copper		1.0	J	3.3	mg/Kg	6020A
Lead		2.6		0.13	mg/Kg	6020A
Nickel		1.5		0.47	mg/Kg	6020A
Zinc		7.1		3.3	mg/Kg	6020A
Percent Moisture		27		0.10	%	Moisture
Percent Solids		73		0.10	%	Moisture
280-21902-13	**TP16 SD030**					
Copper		1.4	J	2.7	mg/Kg	6020A
Lead		3.1		0.11	mg/Kg	6020A
Nickel		2.0		0.38	mg/Kg	6020A
Zinc		9.9		2.7	mg/Kg	6020A
Percent Moisture		21		0.10	%	Moisture
Percent Solids		79		0.10	%	Moisture
280-21902-14	**TP17 SD031**					
Copper		2.3	J	3.2	mg/Kg	6020A
Lead		5.1		0.13	mg/Kg	6020A
Nickel		3.3		0.45	mg/Kg	6020A
Zinc		16		3.2	mg/Kg	6020A
Percent Moisture		24		0.10	%	Moisture
Percent Solids		76		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21902-15	**TP18 SD032**					
Copper		3.3	J	3.5	mg/Kg	6020A
Lead		5.6		0.14	mg/Kg	6020A
Nickel		4.7		0.49	mg/Kg	6020A
Zinc		19		3.5	mg/Kg	6020A
Percent Moisture		33		0.10	%	Moisture
Percent Solids		67		0.10	%	Moisture
280-21902-16	**TP19 SD033**					
Copper		6.4		3.7	mg/Kg	6020A
Lead		9.8		0.15	mg/Kg	6020A
Nickel		9.4		0.52	mg/Kg	6020A
Zinc		36		3.7	mg/Kg	6020A
Percent Moisture		40		0.10	%	Moisture
Percent Solids		60		0.10	%	Moisture
280-21902-17	**TP20 SD034**					
Antimony		0.023	J Q	0.24	mg/Kg	6020A
Copper		0.51	J	3.0	mg/Kg	6020A
Lead		2.8		0.12	mg/Kg	6020A
Nickel		1.0		0.42	mg/Kg	6020A
Zinc		5.1		3.0	mg/Kg	6020A
Percent Moisture		21		0.10	%	Moisture
Percent Solids		79		0.10	%	Moisture
280-21902-18	**TP21 SD035**					
Antimony		0.037	J Q	0.22	mg/Kg	6020A
Copper		0.58	J	2.8	mg/Kg	6020A
Lead		4.8		0.11	mg/Kg	6020A
Nickel		1.4		0.39	mg/Kg	6020A
Zinc		7.8		2.8	mg/Kg	6020A
Percent Moisture		20		0.10	%	Moisture
Percent Solids		80		0.10	%	Moisture
280-21902-19	**TP21 SD036**					
Antimony		0.033	J Q	0.23	mg/Kg	6020A
Copper		0.63	J	2.9	mg/Kg	6020A
Lead		4.4		0.11	mg/Kg	6020A
Nickel		1.3		0.40	mg/Kg	6020A
Zinc		7.3		2.9	mg/Kg	6020A
Percent Moisture		22		0.10	%	Moisture
Percent Solids		78		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21902-20	**TP01 SB128**					
Copper		1.8	J	2.7	mg/Kg	6020A
Lead		32		0.11	mg/Kg	6020A
Nickel		2.3		0.37	mg/Kg	6020A
Zinc		8.3		2.7	mg/Kg	6020A
Percent Moisture		19		0.10	%	Moisture
Percent Solids		81		0.10	%	Moisture
280-21902-21	**TP01 SB129**					
Antimony		0.018	J Q	0.22	mg/Kg	6020A
Copper		1.8	J	2.8	mg/Kg	6020A
Lead		32		0.11	mg/Kg	6020A
Nickel		2.1		0.39	mg/Kg	6020A
Zinc		7.6		2.8	mg/Kg	6020A
Percent Moisture		18		0.10	%	Moisture
Percent Solids		82		0.10	%	Moisture
280-21902-22	**TP01 SB130**					
Copper		1.4	J	2.5	mg/Kg	6020A
Lead		44		0.098	mg/Kg	6020A
Nickel		3.9		0.34	mg/Kg	6020A
Zinc		8.4		2.5	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
280-21902-23	**TP01 SB131**					
Copper		1.3	J	2.4	mg/Kg	6020A
Lead		39		0.096	mg/Kg	6020A
Nickel		3.7		0.33	mg/Kg	6020A
Zinc		7.9		2.4	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21902-35	**CP27 SB052**					
Copper		0.86	J	2.5	mg/Kg	6020A
Lead		4.5		0.10	mg/Kg	6020A
Nickel		1.6		0.36	mg/Kg	6020A
Zinc		5.6		2.5	mg/Kg	6020A
Percent Moisture		16		0.10	%	Moisture
Percent Solids		84		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21902-36	**CP27 SB053**					
Copper		1.2	J	2.7	mg/Kg	6020A
Lead		4.0		0.11	mg/Kg	6020A
Nickel		3.3		0.37	mg/Kg	6020A
Zinc		6.9		2.7	mg/Kg	6020A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture
280-21902-37	**CP22 SB040**					
Copper		0.93	J	2.8	mg/Kg	6020A
Lead		5.4		0.11	mg/Kg	6020A
Nickel		1.2		0.39	mg/Kg	6020A
Zinc		5.4		2.8	mg/Kg	6020A
Percent Moisture		17		0.10	%	Moisture
Percent Solids		83		0.10	%	Moisture
280-21902-38	**CP22 SB041**					
Copper		0.82	J	2.5	mg/Kg	6020A
Lead		3.0		0.10	mg/Kg	6020A
Nickel		1.9		0.35	mg/Kg	6020A
Zinc		5.5		2.5	mg/Kg	6020A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture
280-21902-39	**CP25 SB048**					
Copper		0.68	J	2.4	mg/Kg	6020A
Lead		4.6		0.096	mg/Kg	6020A
Nickel		0.64		0.33	mg/Kg	6020A
Zinc		4.2		2.4	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture
280-21902-40	**CP25 SB049**					
Copper		0.69	J	2.5	mg/Kg	6020A
Lead		3.2		0.098	mg/Kg	6020A
Nickel		1.3		0.34	mg/Kg	6020A
Zinc		5.7		2.5	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc.　　　　Job Number: 280-21902-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21902-41	**CP24 SB046**					
Copper		0.79	J	2.4	mg/Kg	6020A
Lead		4.5		0.098	mg/Kg	6020A
Nickel		0.96		0.34	mg/Kg	6020A
Zinc		4.9		2.4	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
280-21902-42	**CP24 SB047**					
Copper		1.2	J	2.6	mg/Kg	6020A
Lead		4.1		0.10	mg/Kg	6020A
Nickel		2.5		0.37	mg/Kg	6020A
Zinc		6.6		2.6	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
280-21902-43	**CP26 SB050**					
Copper		1.2	J	2.8	mg/Kg	6020A
Lead		6.1		0.11	mg/Kg	6020A
Nickel		2.0		0.39	mg/Kg	6020A
Zinc		7.3		2.8	mg/Kg	6020A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture
280-21902-44	**CP26 SB051**					
Copper		1.6	J	2.5	mg/Kg	6020A
Lead		4.2		0.098	mg/Kg	6020A
Nickel		4.3		0.34	mg/Kg	6020A
Zinc		9.8		2.5	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
280-21902-45	**CP21 SB038**					
Copper		1.1	J	2.9	mg/Kg	6020A
Lead		8.7		0.12	mg/Kg	6020A
Nickel		1.5		0.40	mg/Kg	6020A
Zinc		6.0		2.9	mg/Kg	6020A
Percent Moisture		15		0.10	%	Moisture
Percent Solids		85		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21902-46	**CP21 SB039**					
Copper		1.3	J	2.8	mg/Kg	6020A
Lead		7.0		0.11	mg/Kg	6020A
Nickel		2.7		0.39	mg/Kg	6020A
Zinc		8.1		2.8	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
280-21902-47	**CP20 SB037**					
Copper		1.0	J	2.7	mg/Kg	6020A
Lead		3.7		0.11	mg/Kg	6020A
Nickel		1.7		0.38	mg/Kg	6020A
Zinc		5.7		2.7	mg/Kg	6020A
Percent Moisture		9.3		0.10	%	Moisture
Percent Solids		91		0.10	%	Moisture
280-21902-48	**CP20 SB036**					
Copper		1.1	J	2.5	mg/Kg	6020A
Lead		6.1		0.099	mg/Kg	6020A
Nickel		1.1		0.35	mg/Kg	6020A
Zinc		5.8		2.5	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture
280-21902-50	**CP23 SB042**					
Copper		1.2	J	2.8	mg/Kg	6020A
Lead		6.7		0.11	mg/Kg	6020A
Nickel		1.8		0.40	mg/Kg	6020A
Zinc		7.2		2.8	mg/Kg	6020A
Percent Moisture		16		0.10	%	Moisture
Percent Solids		84		0.10	%	Moisture
280-21902-51	**CP23 SB044**					
Copper		1.1	J	2.6	mg/Kg	6020A
Lead		6.2		0.10	mg/Kg	6020A
Nickel		1.9		0.36	mg/Kg	6020A
Zinc		6.7		2.6	mg/Kg	6020A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21902-52	**CP23 SB043**					
Copper		1.3	J	2.5	mg/Kg	6020A
Lead		4.0		0.099	mg/Kg	6020A
Nickel		3.7		0.35	mg/Kg	6020A
Zinc		7.8		2.5	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21902-53	**CP03 IS009**					
Antimony		0.017	Q J	0.19	mg/Kg	6020A
Copper		2.1	J	2.3	mg/Kg	6020A
Lead		9.0		0.094	mg/Kg	6020A
Nickel		1.6		0.33	mg/Kg	6020A
Zinc		9.7		2.3	mg/Kg	6020A
280-21902-54	**CP03 IS008**					
Antimony		0.014	J Q	0.20	mg/Kg	6020A
Copper		1.8	J	2.5	mg/Kg	6020A
Lead		8.0		0.099	mg/Kg	6020A
Nickel		1.3		0.35	mg/Kg	6020A
Zinc		8.8		2.5	mg/Kg	6020A
280-21902-55	**CP03 IS007**					
Antimony		0.016	J Q	0.20	mg/Kg	6020A
Copper		2.0	J	2.4	mg/Kg	6020A
Lead		9.1		0.098	mg/Kg	6020A
Nickel		1.3		0.34	mg/Kg	6020A
Zinc		9.2		2.4	mg/Kg	6020A
280-21902-56	**CP02 IS004**					
Antimony		0.043	J Q	0.19	mg/Kg	6020A
Copper		2.8		2.4	mg/Kg	6020A
Lead		14		0.096	mg/Kg	6020A
Nickel		1.5		0.34	mg/Kg	6020A
Zinc		8.8		2.4	mg/Kg	6020A

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc.

Job Number: 280-21902-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21902-57	**CP02 IS005**					
Antimony		0.049	J Q	0.20	mg/Kg	6020A
Copper		3.2		2.4	mg/Kg	6020A
Lead		15		0.098	mg/Kg	6020A
Nickel		1.5		0.34	mg/Kg	6020A
Zinc		10		2.4	mg/Kg	6020A
280-21902-58	**CP02 IS006**					
Antimony		0.053	J Q	0.19	mg/Kg	6020A
Copper		3.6		2.4	mg/Kg	6020A
Lead		16		0.097	mg/Kg	6020A
Nickel		2.0		0.34	mg/Kg	6020A
Zinc		12		2.4	mg/Kg	6020A
280-21902-59	**CP13 SB019**					
Copper		1.2	J	2.9	mg/Kg	6020A
Lead		6.4		0.12	mg/Kg	6020A
Nickel		1.1		0.40	mg/Kg	6020A
Zinc		4.3		2.9	mg/Kg	6020A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture
280-21902-60	**CP13 SB021**					
Copper		0.90	J	2.9	mg/Kg	6020A
Lead		6.4		0.11	mg/Kg	6020A
Nickel		1.0		0.40	mg/Kg	6020A
Zinc		3.9		2.9	mg/Kg	6020A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture
280-21902-61	**CP13 SB020**					
Copper		1.1	J	2.6	mg/Kg	6020A
Lead		4.5		0.11	mg/Kg	6020A
Nickel		2.4		0.37	mg/Kg	6020A
Zinc		5.5		2.6	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21902-63	**CP14 SB023**					
Antimony		0.018	J Q	0.22	mg/Kg	6020A
Copper		1.3	J	2.7	mg/Kg	6020A
Lead		9.0		0.11	mg/Kg	6020A
Nickel		1.9		0.38	mg/Kg	6020A
Zinc		7.9		2.7	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
280-21902-64	**CP14 SB024**					
Copper		1.1	J	2.7	mg/Kg	6020A
Lead		4.8		0.11	mg/Kg	6020A
Nickel		3.5		0.37	mg/Kg	6020A
Zinc		7.6		2.7	mg/Kg	6020A
Percent Moisture		9.9		0.10	%	Moisture
Percent Solids		90		0.10	%	Moisture
280-21902-65	**CP18 SB031**					
Copper		1.2	J	2.7	mg/Kg	6020A
Lead		11		0.11	mg/Kg	6020A
Nickel		1.2		0.38	mg/Kg	6020A
Zinc		4.2		2.7	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture
280-21902-66	**CP18 SB032**					
Copper		1.1	J	2.5	mg/Kg	6020A
Lead		7.8		0.099	mg/Kg	6020A
Nickel		2.2		0.35	mg/Kg	6020A
Zinc		5.7		2.5	mg/Kg	6020A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture
280-21902-67	**CP18 SB033**					
Copper		1.1	J	2.6	mg/Kg	6020A
Lead		7.5		0.11	mg/Kg	6020A
Nickel		3.2		0.37	mg/Kg	6020A
Zinc		7.9		2.6	mg/Kg	6020A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21902-68	**CP15 SB025**					
Copper		1.1	J	2.6	mg/Kg	6020A
Lead		7.0		0.10	mg/Kg	6020A
Nickel		1.1		0.37	mg/Kg	6020A
Zinc		4.6		2.6	mg/Kg	6020A
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture
280-21902-69	**CP15 SB026**					
Copper		0.95	J	2.6	mg/Kg	6020A
Lead		6.9		0.10	mg/Kg	6020A
Nickel		2.2		0.37	mg/Kg	6020A
Zinc		6.3		2.6	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
280-21902-70	**CP16 SB027**					
Copper		1.1	J	2.9	mg/Kg	6020A
Lead		13		0.12	mg/Kg	6020A
Nickel		1.5		0.41	mg/Kg	6020A
Zinc		4.0		2.9	mg/Kg	6020A
Percent Moisture		18		0.10	%	Moisture
Percent Solids		82		0.10	%	Moisture
280-21902-71	**CP16 SB028**					
Copper		1.6	J	2.8	mg/Kg	6020A
Lead		8.3		0.11	mg/Kg	6020A
Nickel		4.4		0.40	mg/Kg	6020A
Zinc		8.5		2.8	mg/Kg	6020A
Percent Moisture		16		0.10	%	Moisture
Percent Solids		84		0.10	%	Moisture
280-21902-72	**CP19 SB034**					
Copper		1.1	J	3.0	mg/Kg	6020A
Lead		17		0.12	mg/Kg	6020A
Nickel		1.5		0.42	mg/Kg	6020A
Zinc		4.8		3.0	mg/Kg	6020A
Percent Moisture		21		0.10	%	Moisture
Percent Solids		79		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-21902-73	**CP19 SB035**					
Copper		1.5	J	2.6	mg/Kg	6020A
Lead		11		0.10	mg/Kg	6020A
Nickel		2.8		0.36	mg/Kg	6020A
Zinc		6.4		2.6	mg/Kg	6020A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture
280-21902-74	**CP17 SB029**					
Copper		0.68	J	2.5	mg/Kg	6020A
Lead		9.4		0.10	mg/Kg	6020A
Nickel		1.4		0.35	mg/Kg	6020A
Zinc		4.2		2.5	mg/Kg	6020A
Percent Moisture		15		0.10	%	Moisture
Percent Solids		85		0.10	%	Moisture
280-21902-75	**CP17 SB030**					
Copper		1.0	J	2.5	mg/Kg	6020A
Lead		4.3		0.099	mg/Kg	6020A
Nickel		2.7		0.35	mg/Kg	6020A
Zinc		5.8		2.5	mg/Kg	6020A
Percent Moisture		14		0.10	%	Moisture
Percent Solids		86		0.10	%	Moisture

METHOD SUMMARY

Client: UXB International, Inc. Job Number: 280-21902-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Nitroaromatics and Nitramines (LC/MS)	TAL DEN	SW846 8321B	
Extraction (Explosives) - Ring Puck			SW846 8330
Sonication Extraction (Explosives)			SW846 8330B
Nitroaromatics and Nitramines (LC/MS)	TAL DEN	SW846 8321B	
Incremental Sample Preparation			EPA Increm, Prep
Sonication Extraction (Explosives)			SW846 8330B
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Metals			SW846 3050B
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Incremental Sample Preparation			EPA Increm, Prep
Preparation, Metals			SW846 3050B
Percent Moisture	TAL DEN	EPA Moisture	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: UXB International, Inc.

Job Number: 280-21902-1

Method	Analyst	Analyst ID
SW846 6020A	Lill, Thomas E	TEL
SW846 8321B	Meyer, Andrew GC	AGCM
EPA Moisture	Berry III, Paul B	PBB

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: TP05 SD018

Lab Sample ID:	280-21902-1	Date Sampled:	10/19/2011 1110
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21809.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.45 g
Analysis Date:	11/04/2011 0114			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0078	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	87		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP06 SD019**

Lab Sample ID:	280-21902-2	Date Sampled:	10/19/2011 1115
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21810.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.97 g
Analysis Date:	11/04/2011 0127			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.011	0.091
1,3-Dinitrobenzene		0.011	U	0.0065	0.091
2,4,6-Trinitrotoluene		0.011	U	0.0046	0.091
2,4-Dinitrotoluene		0.011	U	0.0075	0.091
2,6-Dinitrotoluene		0.023	U	0.018	0.091
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.091
2-Nitrotoluene		0.011	U	0.0052	0.091
3-Nitrotoluene		0.023	U	0.012	0.091
4-Amino-2,6-dinitrotoluene		0.011	U	0.0046	0.091
4-Nitrotoluene		0.023	U	0.010	0.091
HMX		0.011	U	0.0053	0.091
Nitrobenzene		0.011	U	0.0098	0.091
Nitroglycerin		0.011	U	0.0096	0.091
PETN		0.011	U	0.0047	0.091
RDX		0.011	U	0.0039	0.091
Tetryl		0.011	U	0.0069	0.091

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	86		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP07 SD020**

Lab Sample ID: 280-21902-3 Date Sampled: 10/19/2011 1120
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21811.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.20 g
Analysis Date:	11/04/2011 0141			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0050	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0074	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP08 SD021**

Lab Sample ID: 280-21902-4 Date Sampled: 10/19/2011 1130
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21812.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.27 g
Analysis Date:	11/04/2011 0155			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0080	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0057	0.097
Nitrobenzene		0.012	U	0.011	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	92		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP09 SD022**

Lab Sample ID: 280-21902-5 Date Sampled: 10/19/2011 1125
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21813.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.21 g
Analysis Date:	11/04/2011 0208			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.024	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.024	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.024	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0050	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0074	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84	M	68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP10 SD023**

Lab Sample ID: 280-21902-6 Date Sampled: 10/19/2011 1135
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21814.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.10 g
Analysis Date:	11/04/2011 0222			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	94	M	68 - 140

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **TP11 SD024**

Lab Sample ID: 280-21902-7 | Date Sampled: 10/19/2011 1140
Client Matrix: Solid | Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94725	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21837.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.10 g
Analysis Date:	11/04/2011 0737			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U J	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	87		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP12 SD025**

Lab Sample ID: 280-21902-8 Date Sampled: 10/19/2011 1145
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21819.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.16 g
Analysis Date:	11/04/2011 0330			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.098
2,4-Dinitrotoluene		0.012	U	0.0081	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0043	0.098
Tetryl		0.012	U	0.0075	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	88		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP13 SD026**

Lab Sample ID: 280-21902-9 Date Sampled: 10/19/2011 1150
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21820.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.16 g
Analysis Date:	11/04/2011 0344			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.098
2,4-Dinitrotoluene		0.012	U	0.0081	0.098
2,6-Dinitrotoluene		0.025	U M	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0043	0.098
Tetryl		0.012	U	0.0075	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84	M	68 - 140

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **TP14 SD027**

Lab Sample ID: 280-21902-10 | Date Sampled: 10/19/2011 0955
Client Matrix: Solid | Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21821.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.71 g
Analysis Date:	11/04/2011 0357			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0076	0.093
2,6-Dinitrotoluene		0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.093
2-Nitrotoluene		0.012	U	0.0054	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0098	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0071	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77	M	68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP14 SD028**

Lab Sample ID: 280-21902-11 Date Sampled: 10/19/2011 0955
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21822.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.66 g
Analysis Date:	11/04/2011 0411			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.094
1,3-Dinitrobenzene		0.012	U	0.0067	0.094
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.094
2,4-Dinitrotoluene		0.012	U	0.0077	0.094
2,6-Dinitrotoluene		0.023	U	0.019	0.094
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.094
2-Nitrotoluene		0.012	U	0.0054	0.094
3-Nitrotoluene		0.023	U	0.012	0.094
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.094
4-Nitrotoluene		0.023	U	0.010	0.094
HMX		0.012	U	0.0055	0.094
Nitrobenzene		0.012	U	0.010	0.094
Nitroglycerin		0.012	U	0.0098	0.094
PETN		0.012	U	0.0048	0.094
RDX		0.012	U	0.0041	0.094
Tetryl		0.012	U	0.0071	0.094

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	87	M	68 - 140

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **TP15 SD029**

Lab Sample ID: 280-21902-12 | Date Sampled: 10/19/2011 1030
Client Matrix: Solid | Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21823.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.55 g
Analysis Date:	11/04/2011 0424			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0067	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0054	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80	M	68 - 140

Client: UXB International, Inc.　　Job Number: 280-21902-1

Client Sample ID: **TP16 SD030**

Lab Sample ID:	280-21902-13	Date Sampled:	10/19/2011 1020
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21825.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.32 g
Analysis Date:	11/04/2011 0452			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0079	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0056	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80	M	68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP17 SD031**

Lab Sample ID: 280-21902-14 Date Sampled: 10/19/2011 0948
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21826.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.78 g
Analysis Date:	11/04/2011 0506			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0076	0.093
2,6-Dinitrotoluene		0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.093
2-Nitrotoluene		0.012	U	0.0053	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U	0.0047	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0097	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0070	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	85	M	68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP18 SD032**

Lab Sample ID: 280-21902-15 Date Sampled: 10/19/2011 1045
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21827.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.09 g
Analysis Date:	11/04/2011 0519			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0071	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83	M	68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP19 SD033**

Lab Sample ID:	280-21902-16	Date Sampled:	10/19/2011 1040
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21828.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.28 g
Analysis Date:	11/04/2011 0533			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0080	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0057	0.097
Nitrobenzene		0.012	U	0.011	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	79		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP20 SD034**

Lab Sample ID:	280-21902-17	Date Sampled:	10/19/2011 1105
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21829.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.71 g
Analysis Date:	11/04/2011 0546			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0076	0.093
2,6-Dinitrotoluene		0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.093
2-Nitrotoluene		0.012	U	0.0054	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0098	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0071	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81	M	68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP21 SD035**

Lab Sample ID: 280-21902-18 Date Sampled: 10/19/2011 1055
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21830.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.73 g
Analysis Date:	11/04/2011 0600			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0076	0.093
2,6-Dinitrotoluene		0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.093
2-Nitrotoluene		0.012	U	0.0053	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0098	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0071	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	79	M	68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP21 SD036**

Lab Sample ID: 280-21902-19 Date Sampled: 10/19/2011 1055
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21831.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.03 g
Analysis Date:	11/04/2011 0613			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.10
1,3-Dinitrobenzene		0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.10
2,4-Dinitrotoluene		0.012	U	0.0082	0.10
2,6-Dinitrotoluene		0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.10
2-Nitrotoluene		0.012	U	0.0057	0.10
3-Nitrotoluene		0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.10
4-Nitrotoluene		0.025	U	0.011	0.10
HMX		0.012	U	0.0058	0.10
Nitrobenzene		0.012	U	0.011	0.10
Nitroglycerin		0.012	U	0.010	0.10
PETN		0.012	U	0.0051	0.10
RDX		0.012	U	0.0043	0.10
Tetryl		0.012	U	0.0076	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	79	M	68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP01 SB128**

Lab Sample ID: 280-21902-20 Date Sampled: 10/19/2011 1330
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93507	Lab File ID:	ex41J21832.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.04 g
Analysis Date:	11/04/2011 0628			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.10
1,3-Dinitrobenzene		0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.10
2,4-Dinitrotoluene		0.012	U	0.0082	0.10
2,6-Dinitrotoluene		0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.10
2-Nitrotoluene		0.012	U	0.0057	0.10
3-Nitrotoluene		0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.10
4-Nitrotoluene		0.025	U	0.011	0.10
HMX		0.012	U	0.0058	0.10
Nitrobenzene		0.012	U	0.011	0.10
Nitroglycerin		0.012	U	0.010	0.10
PETN		0.012	U	0.0051	0.10
RDX		0.012	U	0.0043	0.10
Tetryl		0.012	U	0.0076	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP01 SB129**

Lab Sample ID: 280-21902-21 Date Sampled: 10/19/2011 1332
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21753.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.54 g
Analysis Date:	11/03/2011 1230			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0054	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81		68 - 140

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **TP01 SB130**

Lab Sample ID:	280-21902-22	Date Sampled:	10/19/2011 1335
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21754.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.34 g
Analysis Date:	11/03/2011 1244			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0079	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0056	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0073	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **TP01 SB131**

Lab Sample ID: 280-21902-23 | Date Sampled: 10/19/2011 1345
Client Matrix: Solid | Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21757.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.39 g
Analysis Date:	11/03/2011 1324			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0069	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0050	0.096
RDX		0.012	U	0.0042	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP27 SB052**

Lab Sample ID:	280-21902-35	Date Sampled:	10/18/2011 1355
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21758.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.17 g
Analysis Date:	11/03/2011 1338			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0081	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0075	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	70		68 - 140

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP27 SB053**

Lab Sample ID: 280-21902-36 | Date Sampled: 10/18/2011 1405
Client Matrix: Solid | Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21760.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.68 g
Analysis Date:	11/03/2011 1406			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.094
1,3-Dinitrobenzene		0.012	U	0.0067	0.094
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.094
2,4-Dinitrotoluene		0.012	U	0.0077	0.094
2,6-Dinitrotoluene		0.023	U	0.019	0.094
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.094
2-Nitrotoluene		0.012	U	0.0054	0.094
3-Nitrotoluene		0.023	U	0.012	0.094
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.094
4-Nitrotoluene		0.023	U	0.010	0.094
HMX		0.012	U	0.0055	0.094
Nitrobenzene		0.012	U	0.010	0.094
Nitroglycerin		0.012	U	0.0098	0.094
PETN		0.012	U	0.0048	0.094
RDX		0.012	U	0.0040	0.094
Tetryl		0.012	U	0.0071	0.094

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	71		68 - 140

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP22 SB040**

Lab Sample ID:	280-21902-37	Date Sampled:	10/18/2011 1340
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21761.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.42 g
Analysis Date:	11/03/2011 1419			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81		68 - 140

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP22 SB041**

Lab Sample ID: 280-21902-38 | Date Sampled: 10/18/2011 1350
Client Matrix: Solid | Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21762.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.15 g
Analysis Date:	11/03/2011 1433			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0057	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84		68 - 140

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP25 SB048**

Lab Sample ID: 280-21902-39 | Date Sampled: 10/18/2011 1325
Client Matrix: Solid | Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21763.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.65 g
Analysis Date:	11/03/2011 1447			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.094
1,3-Dinitrobenzene		0.012	U	0.0067	0.094
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.094
2,4-Dinitrotoluene		0.012	U	0.0077	0.094
2,6-Dinitrotoluene		0.023	U	0.019	0.094
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.094
2-Nitrotoluene		0.012	U	0.0054	0.094
3-Nitrotoluene		0.023	U	0.012	0.094
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.094
4-Nitrotoluene		0.023	U	0.010	0.094
HMX		0.012	U	0.0055	0.094
Nitrobenzene		0.012	U	0.010	0.094
Nitroglycerin		0.012	U	0.0099	0.094
PETN		0.012	U	0.0048	0.094
RDX		0.012	U	0.0041	0.094
Tetryl		0.012	U	0.0071	0.094

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP25 SB049**

Lab Sample ID: 280-21902-40 Date Sampled: 10/18/2011 1335
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21764.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.39 g
Analysis Date:	11/03/2011 1500			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0069	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0050	0.096
RDX		0.012	U	0.0042	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP24 SB046**

Lab Sample ID:	280-21902-41	Date Sampled:	10/18/2011 1300
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21765.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.43 g
Analysis Date:	11/03/2011 1515			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP24 SB047**

Lab Sample ID: 280-21902-42 Date Sampled: 10/18/2011 1315
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21766.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.49 g
Analysis Date:	11/03/2011 1528			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0055	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0056	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: CP26 SB050

Lab Sample ID:	280-21902-43	Date Sampled:	10/18/2011 1235
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21767.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.91 g
Analysis Date:	11/03/2011 1542			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.092
1,3-Dinitrobenzene		0.011	U	0.0065	0.092
2,4,6-Trinitrotoluene		0.011	U	0.0046	0.092
2,4-Dinitrotoluene		0.011	U	0.0075	0.092
2,6-Dinitrotoluene		0.023	U	0.018	0.092
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.092
2-Nitrotoluene		0.011	U	0.0053	0.092
3-Nitrotoluene		0.023	U	0.012	0.092
4-Amino-2,6-dinitrotoluene		0.011	U	0.0047	0.092
4-Nitrotoluene		0.023	U	0.010	0.092
HMX		0.011	U	0.0053	0.092
Nitrobenzene		0.011	U	0.0099	0.092
Nitroglycerin		0.011	U	0.0096	0.092
PETN		0.011	U	0.0047	0.092
RDX		0.011	U	0.0040	0.092
Tetryl		0.011	U	0.0070	0.092

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		68 - 140

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP26 SB051**

Lab Sample ID: 280-21902-44 | Date Sampled: 10/18/2011 1240
Client Matrix: Solid | Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21769.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.32 g
Analysis Date:	11/03/2011 1609			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0079	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0056	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP21 SB038**

Lab Sample ID:	280-21902-45	Date Sampled:	10/18/2011 1220
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21770.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.99 g
Analysis Date:	11/03/2011 1623			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.011	0.091
1,3-Dinitrobenzene		0.011	U	0.0065	0.091
2,4,6-Trinitrotoluene		0.011	U	0.0046	0.091
2,4-Dinitrotoluene		0.011	U	0.0075	0.091
2,6-Dinitrotoluene		0.023	U	0.018	0.091
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.091
2-Nitrotoluene		0.011	U	0.0052	0.091
3-Nitrotoluene		0.023	U	0.012	0.091
4-Amino-2,6-dinitrotoluene		0.011	U	0.0046	0.091
4-Nitrotoluene		0.023	U	0.010	0.091
HMX		0.011	U	0.0053	0.091
Nitrobenzene		0.011	U	0.0098	0.091
Nitroglycerin		0.011	U	0.0096	0.091
PETN		0.011	U	0.0047	0.091
RDX		0.011	U	0.0039	0.091
Tetryl		0.011	U	0.0069	0.091

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	75		68 - 140

Client: UXB International, Inc.　　Job Number: 280-21902-1

Client Sample ID: **CP21 SB039**

Lab Sample ID:	280-21902-46	Date Sampled:	10/18/2011 1228
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21771.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.48 g
Analysis Date:	11/03/2011 1636			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0055	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0056	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83		68 - 140

Client: UXB International, Inc.　　Job Number: 280-21902-1

Client Sample ID: **CP20 SB037**

Lab Sample ID: 280-21902-47　　Date Sampled: 10/18/2011 1330
Client Matrix: Solid　　Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21772.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.21 g
Analysis Date:	11/03/2011 1650			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.024	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.024	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.024	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0050	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0074	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	69		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP20 SB036**

Lab Sample ID:	280-21902-48	Date Sampled:	10/18/2011 1415
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21773.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.24 g
Analysis Date:	11/03/2011 1704			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.024	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.024	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.024	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0050	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0074	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	82		68 - 140

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP23 SB042**

Lab Sample ID: 280-21902-50 | Date Sampled: 10/18/2011 1440
Client Matrix: Solid | Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21775.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.02 g
Analysis Date:	11/03/2011 1731			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.10
1,3-Dinitrobenzene		0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.10
2,4-Dinitrotoluene		0.012	U	0.0082	0.10
2,6-Dinitrotoluene		0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.10
2-Nitrotoluene		0.012	U	0.0057	0.10
3-Nitrotoluene		0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.10
4-Nitrotoluene		0.025	U	0.011	0.10
HMX		0.012	U	0.0058	0.10
Nitrobenzene		0.012	U	0.011	0.10
Nitroglycerin		0.012	U	0.010	0.10
PETN		0.012	U	0.0051	0.10
RDX		0.012	U	0.0043	0.10
Tetryl		0.012	U	0.0076	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	79		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP23 SB044**

Lab Sample ID:	280-21902-51	Date Sampled:	10/18/2011 1440
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-92995	Lab File ID:	ex41J21776.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.90 g
Analysis Date:	11/03/2011 1744			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.092
1,3-Dinitrobenzene		0.011	U	0.0065	0.092
2,4,6-Trinitrotoluene		0.011	U	0.0046	0.092
2,4-Dinitrotoluene		0.011	U	0.0075	0.092
2,6-Dinitrotoluene		0.023	U	0.018	0.092
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.092
2-Nitrotoluene		0.011	U	0.0053	0.092
3-Nitrotoluene		0.023	U	0.012	0.092
4-Amino-2,6-dinitrotoluene		0.011	U	0.0047	0.092
4-Nitrotoluene		0.023	U	0.010	0.092
HMX		0.011	U	0.0053	0.092
Nitrobenzene		0.011	U	0.0099	0.092
Nitroglycerin		0.011	U	0.0096	0.092
PETN		0.011	U	0.0047	0.092
RDX		0.011	U	0.0040	0.092
Tetryl		0.011	U	0.0070	0.092

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP23 SB043**

Lab Sample ID:	280-21902-52	Date Sampled:	10/18/2011 1450
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21780.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.08 g
Analysis Date:	11/03/2011 1839			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.099
1,3-Dinitrobenzene		0.012	U	0.0071	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0051	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP03 IS009**

Lab Sample ID: 280-21902-53 Date Sampled: 10/18/2011 1428
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93548	Lab File ID:	ex41J21652.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.05 g
Analysis Date:	11/02/2011 0811			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/22/2011 1615				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.10
1,3-Dinitrobenzene		0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.10
2,4-Dinitrotoluene		0.012	U	0.0081	0.10
2,6-Dinitrotoluene		0.025	U Q	0.020	0.10
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.10
2-Nitrotoluene		0.012	U	0.0057	0.10
3-Nitrotoluene		0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0051	0.10
4-Nitrotoluene		0.025	U	0.011	0.10
HMX		0.012	U	0.0058	0.10
Nitrobenzene		0.012	U	0.011	0.10
Nitroglycerin		0.012	U	0.010	0.10
PETN		0.012	U	0.0051	0.10
RDX		0.012	U	0.0043	0.10
Tetryl		0.012	U	0.0076	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP03 IS008**

Lab Sample ID:	280-21902-54	Date Sampled:	10/18/2011 1345
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93548	Lab File ID:	ex41J21653.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.70 g
Analysis Date:	11/02/2011 0825			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/22/2011 1615				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0067	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0077	0.093
2,6-Dinitrotoluene		0.023	U Q	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U Q	0.011	0.093
2-Nitrotoluene		0.012	U	0.0054	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0048	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0098	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0071	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	89		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP03 IS007**

Lab Sample ID: 280-21902-55 Date Sampled: 10/18/2011 1245
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93548	Lab File ID:	ex41J21654.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.11 g
Analysis Date:	11/02/2011 0839			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/22/2011 1615				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U Q	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U Q	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	87		68 - 140

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: CP02 IS004

Lab Sample ID: 280-21902-56 | Date Sampled: 10/17/2011 1337
Client Matrix: Solid | Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93548	Lab File ID:	ex41J21655.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.93 g
Analysis Date:	11/02/2011 0852			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/22/2011 1615				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.091
1,3-Dinitrobenzene		0.011	U	0.0065	0.091
2,4,6-Trinitrotoluene		0.011	U	0.0046	0.091
2,4-Dinitrotoluene		0.011	U	0.0075	0.091
2,6-Dinitrotoluene		0.023	U Q	0.018	0.091
2-Amino-4,6-dinitrotoluene		0.023	U Q	0.011	0.091
2-Nitrotoluene		0.011	U	0.0053	0.091
3-Nitrotoluene		0.023	U	0.012	0.091
4-Amino-2,6-dinitrotoluene		0.011	U Q	0.0047	0.091
4-Nitrotoluene		0.023	U	0.010	0.091
HMX		0.011	U	0.0053	0.091
Nitrobenzene		0.011	U	0.0099	0.091
Nitroglycerin		0.011	U	0.0096	0.091
PETN		0.011	U	0.0047	0.091
RDX		0.011	U	0.0040	0.091
Tetryl		0.011	U	0.0069	0.091

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP02 IS005**

Lab Sample ID: 280-21902-57 Date Sampled: 10/17/2011 1436
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93548	Lab File ID:	ex41J21656.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.78 g
Analysis Date:	11/02/2011 0906			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/22/2011 1615				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0076	0.093
2,6-Dinitrotoluene		0.023	U Q	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U Q	0.011	0.093
2-Nitrotoluene		0.012	U	0.0053	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0047	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0097	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0070	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP02 IS006**

Lab Sample ID: 280-21902-58 Date Sampled: 10/17/2011 1517
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93548	Lab File ID:	ex41J21657.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.31 g
Analysis Date:	11/02/2011 0920			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/22/2011 1615				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U J	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0079	0.097
2,6-Dinitrotoluene		0.024	U Q	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U Q	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U Q	0.0049	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0057	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP13 SB019**

Lab Sample ID: 280-21902-59 Date Sampled: 10/17/2011 1246
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21783.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.75 g
Analysis Date:	11/03/2011 1920			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0076	0.093
2,6-Dinitrotoluene		0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.093
2-Nitrotoluene		0.012	U	0.0053	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U	0.0047	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0098	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0071	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP13 SB021**

Lab Sample ID:	280-21902-60	Date Sampled:	10/17/2011 1246
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21784.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.41 g
Analysis Date:	11/03/2011 1933			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP13 SB020**

Lab Sample ID: 280-21902-61 Date Sampled: 10/17/2011 1250
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21785.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.95 g
Analysis Date:	11/03/2011 1947			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.091
1,3-Dinitrobenzene		0.011	U	0.0065	0.091
2,4,6-Trinitrotoluene		0.011	U	0.0046	0.091
2,4-Dinitrotoluene		0.011	U	0.0075	0.091
2,6-Dinitrotoluene		0.023	U	0.018	0.091
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.091
2-Nitrotoluene		0.011	U	0.0052	0.091
3-Nitrotoluene		0.023	U	0.012	0.091
4-Amino-2,6-dinitrotoluene		0.011	U	0.0047	0.091
4-Nitrotoluene		0.023	U	0.010	0.091
HMX		0.011	U	0.0053	0.091
Nitrobenzene		0.011	U	0.0099	0.091
Nitroglycerin		0.011	U	0.0096	0.091
PETN		0.011	U	0.0047	0.091
RDX		0.011	U	0.0039	0.091
Tetryl		0.011	U	0.0069	0.091

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	82		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP14 SB023**

Lab Sample ID: 280-21902-63 Date Sampled: 10/17/2011 1306
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21792.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.61 g
Analysis Date:	11/03/2011 2123			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.094
1,3-Dinitrobenzene		0.012	U	0.0067	0.094
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.094
2,4-Dinitrotoluene		0.012	U	0.0077	0.094
2,6-Dinitrotoluene		0.024	U	0.019	0.094
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.094
2-Nitrotoluene		0.012	U	0.0054	0.094
3-Nitrotoluene		0.024	U	0.012	0.094
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.094
4-Nitrotoluene		0.024	U	0.010	0.094
HMX		0.012	U	0.0055	0.094
Nitrobenzene		0.012	U	0.010	0.094
Nitroglycerin		0.012	U	0.0099	0.094
PETN		0.012	U	0.0049	0.094
RDX		0.012	U	0.0041	0.094
Tetryl		0.012	U	0.0072	0.094

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	75		68 - 140

Client: UXB International, Inc.

Job Number: 280-21902-1

Client Sample ID: **CP14 SB024**

Lab Sample ID:	280-21902-64	Date Sampled:	10/17/2011 1310
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21793.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.64 g
Analysis Date:	11/03/2011 2136			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.094
1,3-Dinitrobenzene		0.012	U	0.0067	0.094
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.094
2,4-Dinitrotoluene		0.012	U	0.0077	0.094
2,6-Dinitrotoluene		0.023	U	0.019	0.094
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.094
2-Nitrotoluene		0.012	U	0.0054	0.094
3-Nitrotoluene		0.023	U	0.012	0.094
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.094
4-Nitrotoluene		0.023	U	0.010	0.094
HMX		0.012	U	0.0055	0.094
Nitrobenzene		0.012	U	0.010	0.094
Nitroglycerin		0.012	U	0.0099	0.094
PETN		0.012	U	0.0048	0.094
RDX		0.012	U	0.0041	0.094
Tetryl		0.012	U	0.0071	0.094

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP18 SB031**

Lab Sample ID:	280-21902-65	Date Sampled:	10/17/2011 1330
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21794.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.47 g
Analysis Date:	11/03/2011 2150			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0078	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0072	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	88		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP18 SB032**

Lab Sample ID: 280-21902-66 Date Sampled: 10/17/2011 1336
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21795.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.16 g
Analysis Date:	11/03/2011 2204			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.098
2,4-Dinitrotoluene		0.012	U	0.0081	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0043	0.098
Tetryl		0.012	U	0.0075	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	86		68 - 140

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP18 SB033**

Lab Sample ID: 280-21902-67 | Date Sampled: 10/17/2011 1336
Client Matrix: Solid | Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21796.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.93 g
Analysis Date:	11/03/2011 2217			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.091
1,3-Dinitrobenzene		0.011	U	0.0065	0.091
2,4,6-Trinitrotoluene		0.011	U	0.0046	0.091
2,4-Dinitrotoluene		0.011	U	0.0075	0.091
2,6-Dinitrotoluene		0.023	U	0.018	0.091
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.091
2-Nitrotoluene		0.011	U	0.0053	0.091
3-Nitrotoluene		0.023	U	0.012	0.091
4-Amino-2,6-dinitrotoluene		0.011	U	0.0047	0.091
4-Nitrotoluene		0.023	U	0.010	0.091
HMX		0.011	U	0.0053	0.091
Nitrobenzene		0.011	U	0.0099	0.091
Nitroglycerin		0.011	U	0.0096	0.091
PETN		0.011	U	0.0047	0.091
RDX		0.011	U	0.0040	0.091
Tetryl		0.011	U	0.0069	0.091

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	77		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP15 SB025**

Lab Sample ID: 280-21902-68 Date Sampled: 10/17/2011 1355
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21798.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.68 g
Analysis Date:	11/03/2011 2244			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.094
1,3-Dinitrobenzene		0.012	U	0.0067	0.094
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.094
2,4-Dinitrotoluene		0.012	U	0.0077	0.094
2,6-Dinitrotoluene		0.023	U	0.019	0.094
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.094
2-Nitrotoluene		0.012	U	0.0054	0.094
3-Nitrotoluene		0.023	U	0.012	0.094
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.094
4-Nitrotoluene		0.023	U	0.010	0.094
HMX		0.012	U	0.0055	0.094
Nitrobenzene		0.012	U	0.010	0.094
Nitroglycerin		0.012	U	0.0098	0.094
PETN		0.012	U	0.0048	0.094
RDX		0.012	U	0.0040	0.094
Tetryl		0.012	U	0.0071	0.094

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP15 SB026**

Lab Sample ID:	280-21902-69	Date Sampled:	10/17/2011 1357
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21799.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.67 g
Analysis Date:	11/03/2011 2258			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.094
1,3-Dinitrobenzene		0.012	U	0.0067	0.094
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.094
2,4-Dinitrotoluene		0.012	U	0.0077	0.094
2,6-Dinitrotoluene		0.023	U	0.019	0.094
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.094
2-Nitrotoluene		0.012	U	0.0054	0.094
3-Nitrotoluene		0.023	U	0.012	0.094
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.094
4-Nitrotoluene		0.023	U	0.010	0.094
HMX		0.012	U	0.0055	0.094
Nitrobenzene		0.012	U	0.010	0.094
Nitroglycerin		0.012	U	0.0098	0.094
PETN		0.012	U	0.0048	0.094
RDX		0.012	U	0.0040	0.094
Tetryl		0.012	U	0.0071	0.094

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc.   Job Number: 280-21902-1

Client Sample ID: **CP16 SB027**

Lab Sample ID: 280-21902-70   Date Sampled: 10/17/2011 1420
Client Matrix: Solid   Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21800.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.34 g
Analysis Date:	11/03/2011 2311			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0079	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0056	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0073	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP16 SB028**

Lab Sample ID: 280-21902-71 Date Sampled: 10/17/2011 1440
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21801.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.81 g
Analysis Date:	11/03/2011 2325			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0076	0.093
2,6-Dinitrotoluene		0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.093
2-Nitrotoluene		0.012	U	0.0053	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U	0.0047	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0097	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0070	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	79		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP19 SB034**

Lab Sample ID:	280-21902-72	Date Sampled:	10/17/2011 1442
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21802.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.28 g
Analysis Date:	11/03/2011 2339			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0080	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0057	0.097
Nitrobenzene		0.012	U	0.011	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP19 SB035**

Lab Sample ID:	280-21902-73	Date Sampled:	10/17/2011 1444
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21803.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.34 g
Analysis Date:	11/03/2011 2352			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0079	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0056	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0073	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	82		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP17 SB029**

Lab Sample ID: 280-21902-74 Date Sampled: 10/17/2011 1453
Client Matrix: Solid Date Received: 10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21804.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.58 g
Analysis Date:	11/04/2011 0006			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0067	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0077	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0054	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.0099	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP17 SB030**

Lab Sample ID:	280-21902-75	Date Sampled:	10/17/2011 1503
Client Matrix:	Solid	Date Received:	10/21/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-93019	Lab File ID:	ex41J21805.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.12 g
Analysis Date:	11/04/2011 0019			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	95		68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP05 SD018**

Lab Sample ID:	280-21902-1			Date Sampled:	10/19/2011 1110
Client Matrix:	Solid	% Moisture:	38.2	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	020AREF.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/07/2011 2040			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.027	Q J	0.019	0.28
Copper		5.2	J	0.098	3.5
Lead		11	J	0.025	0.14
Nickel		7.4	J	0.035	0.48
Zinc		34	J	0.44	3.5

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP06 SD019**

Lab Sample ID: 280-21902-2 Date Sampled: 10/19/2011 1115
Client Matrix: Solid % Moisture: 34.9 Date Received: 10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	025SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/07/2011 2054			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.019	J Q	0.018	0.26
Copper		3.8		0.093	3.3
Lead		7.8		0.024	0.13
Nickel		5.2		0.033	0.46
Zinc		25		0.42	3.3

Analytical Data

Client: UXB International, Inc.

Job Number: 280-21902-1

Client Sample ID: **TP07 SD020**

Lab Sample ID:	280-21902-3			Date Sampled:	10/19/2011 1120
Client Matrix:	Solid	% Moisture:	31.6	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	026SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	11/07/2011 2057			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.051	U Q	0.018	0.25
Copper		2.2	J	0.090	3.2
Lead		5.2		0.023	0.13
Nickel		3.1		0.032	0.44
Zinc		15		0.40	3.2

Analytical Data

Client: UXB International, Inc.　　　　Job Number: 280-21902-1

Client Sample ID: **TP08 SD021**

Lab Sample ID:	280-21902-4			Date Sampled:	10/19/2011 1130
Client Matrix:	Solid	% Moisture:	55.9	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	030SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/07/2011 2109			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.034	J Q	0.030	0.43
Copper		15		0.15	5.4
Lead		32		0.039	0.22
Nickel		21		0.055	0.76
Zinc		93		0.68	5.4

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP09 SD022**

Lab Sample ID: 280-21902-5 Date Sampled: 10/19/2011 1125
Client Matrix: Solid % Moisture: 58.6 Date Received: 10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	031SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/07/2011 2112			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.037	J Q	0.033	0.47
Copper		13		0.17	5.9
Lead		28		0.043	0.23
Nickel		18		0.059	0.82
Zinc		88		0.74	5.9

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP10 SD023**

Lab Sample ID:	280-21902-6			Date Sampled:	10/19/2011 1135
Client Matrix:	Solid	% Moisture:	59.1	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	032SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/07/2011 2115			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.033	J Q	0.033	0.47
Copper		14		0.17	5.8
Lead		30		0.042	0.23
Nickel		19		0.059	0.82
Zinc		92		0.74	5.8

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP11 SD024**

Lab Sample ID:	280-21902-7			Date Sampled:	10/19/2011 1140
Client Matrix:	Solid	% Moisture:	30.7	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	033SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.20 g
Analysis Date:	11/07/2011 2117			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.048	U Q	0.017	0.24
Copper		4.6		0.086	3.0
Lead		5.8		0.022	0.12
Nickel		3.0		0.030	0.42
Zinc		16		0.38	3.0

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP12 SD025**

Lab Sample ID:	280-21902-8			Date Sampled:	10/19/2011 1145
Client Matrix:	Solid	% Moisture:	60.3	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	034SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/07/2011 2120			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.094	U Q	0.033	0.47
Copper		16		0.17	5.9
Lead		34		0.043	0.24
Nickel		21		0.060	0.82
Zinc		100		0.74	5.9

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP13 SD026**

Lab Sample ID: 280-21902-9 Date Sampled: 10/19/2011 1150
Client Matrix: Solid % Moisture: 56.7 Date Received: 10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	035SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	11/07/2011 2123			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.086	U Q	0.030	0.43
Copper		12		0.15	5.3
Lead		26		0.039	0.21
Nickel		15		0.054	0.75
Zinc		85		0.68	5.3

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP14 SD027**

Lab Sample ID:	280-21902-10			Date Sampled:	10/19/2011 0955
Client Matrix:	Solid	% Moisture:	27.7	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	036SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	11/07/2011 2126			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.049	U Q	0.017	0.24
Copper		1.5	J	0.086	3.0
Lead		3.3		0.022	0.12
Nickel		2.0		0.031	0.42
Zinc		10		0.38	3.0

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP14 SD028**

Lab Sample ID:	280-21902-11			Date Sampled:	10/19/2011 0955
Client Matrix:	Solid	% Moisture:	25.2	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	037SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	11/07/2011 2129			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.047	U Q	0.016	0.23
Copper		1.2	J	0.083	2.9
Lead		2.9		0.021	0.12
Nickel		1.7		0.030	0.41
Zinc		8.7		0.37	2.9

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID:	**TP15 SD029**		
Lab Sample ID:	280-21902-12		Date Sampled: 10/19/2011 1030
Client Matrix:	Solid	% Moisture: 27.4	Date Received: 10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	038SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/07/2011 2132			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.053	U Q	0.019	0.27
Copper		1.0	J	0.095	3.3
Lead		2.6		0.024	0.13
Nickel		1.5		0.034	0.47
Zinc		7.1		0.42	3.3

Analytical Data

Client: UXB International, Inc.

Job Number: 280-21902-1

Client Sample ID: **TP16 SD030**

Lab Sample ID:	280-21902-13			Date Sampled:	10/19/2011 1020
Client Matrix:	Solid	% Moisture:	21.0	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	042SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	11/07/2011 2144			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.043	U Q	0.015	0.21
Copper		1.4	J	0.076	2.7
Lead		3.1		0.020	0.11
Nickel		2.0		0.027	0.38
Zinc		9.9		0.34	2.7

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP17 SD031**

Lab Sample ID:	280-21902-14			Date Sampled:	10/19/2011 0948
Client Matrix:	Solid	% Moisture:	23.8	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	043SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	11/07/2011 2146			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.052	U Q	0.018	0.26
Copper		2.3	J	0.092	3.2
Lead		5.1		0.024	0.13
Nickel		3.3		0.033	0.45
Zinc		16		0.41	3.2

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP18 SD032**

Lab Sample ID:	280-21902-15			Date Sampled:	10/19/2011 1045
Client Matrix:	Solid	% Moisture:	33.0	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	044SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/07/2011 2149			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.056	U Q	0.020	0.28
Copper		3.3	J	0.099	3.5
Lead		5.6		0.025	0.14
Nickel		4.7		0.035	0.49
Zinc		19		0.44	3.5

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP19 SD033**

Lab Sample ID:	280-21902-16			Date Sampled:	10/19/2011 1040
Client Matrix:	Solid	% Moisture:	40.2	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	045SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	11/07/2011 2152			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.060	U Q	0.021	0.30
Copper		6.4		0.11	3.7
Lead		9.8		0.027	0.15
Nickel		9.4		0.038	0.52
Zinc		36		0.47	3.7

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP20 SD034**

Lab Sample ID:	280-21902-17			Date Sampled:	10/19/2011 1105
Client Matrix:	Solid	% Moisture:	21.4	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	046SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/07/2011 2155			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.023	J Q	0.017	0.24
Copper		0.51	J	0.086	3.0
Lead		2.8		0.022	0.12
Nickel		1.0		0.031	0.42
Zinc		5.1		0.38	3.0

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP21 SD035**

Lab Sample ID:	280-21902-18			Date Sampled:	10/19/2011 1055
Client Matrix:	Solid	% Moisture:	20.0	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	047SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	11/07/2011 2158			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.037	J Q	0.015	0.22
Copper		0.58	J	0.079	2.8
Lead		4.8		0.020	0.11
Nickel		1.4		0.028	0.39
Zinc		7.8		0.35	2.8

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **TP21 SD036**

Lab Sample ID:	280-21902-19			Date Sampled:	10/19/2011 1055
Client Matrix:	Solid	% Moisture:	22.2	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	048SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	11/07/2011 2201			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.033	J Q	0.016	0.23
Copper		0.63	J	0.082	2.9
Lead		4.4		0.021	0.11
Nickel		1.3		0.029	0.40
Zinc		7.3		0.36	2.9

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP01 SB128**

Lab Sample ID:	280-21902-20			Date Sampled:	10/19/2011 1330
Client Matrix:	Solid	% Moisture:	18.6	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92642	Lab File ID:	049SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	11/07/2011 2204			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.043	U Q	0.015	0.21
Copper		1.8	J	0.076	2.7
Lead		32		0.019	0.11
Nickel		2.3		0.027	0.37
Zinc		8.3		0.34	2.7

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP01 SB129**

Lab Sample ID:	280-21902-21			Date Sampled:	10/19/2011 1332
Client Matrix:	Solid	% Moisture:	18.2	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	055SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	11/07/2011 2221			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.018	J Q	0.016	0.22
Copper		1.8	J	0.080	2.8
Lead		32		0.020	0.11
Nickel		2.1		0.028	0.39
Zinc		7.6		0.35	2.8

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **TP01 SB130**

Lab Sample ID:	280-21902-22			Date Sampled:	10/19/2011 1335
Client Matrix:	Solid	% Moisture:	12.9	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	056SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/07/2011 2224			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.039	U Q	0.014	0.20
Copper		1.4	J	0.070	2.5
Lead		44		0.018	0.098
Nickel		3.9		0.025	0.34
Zinc		8.4		0.31	2.5

Analytical Data

Client: UXB International, Inc.　　　　Job Number: 280-21902-1

Client Sample ID: **TP01 SB131**

Lab Sample ID:	280-21902-23			Date Sampled:	10/19/2011 1345
Client Matrix:	Solid	% Moisture:	12.1	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	057SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	11/07/2011 2227			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.038	U Q	0.013	0.19
Copper		1.3	J	0.068	2.4
Lead		39		0.017	0.096
Nickel		3.7		0.024	0.33
Zinc		7.9		0.30	2.4

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP27 SB052**

Lab Sample ID:	280-21902-35			Date Sampled:	10/18/2011 1355
Client Matrix:	Solid	% Moisture:	16.0	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	058SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/07/2011 2230			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.041	U Q	0.014	0.20
Copper		0.86	J	0.072	2.5
Lead		4.5		0.019	0.10
Nickel		1.6		0.026	0.36
Zinc		5.6		0.32	2.5

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP27 SB053**

Lab Sample ID:	280-21902-36			Date Sampled:	10/18/2011 1405
Client Matrix:	Solid	% Moisture:	14.4	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	059SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/07/2011 2233			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		1.2	J	0.076	2.7
Lead		4.0		0.019	0.11
Nickel		3.3		0.027	0.37
Zinc		6.9		0.34	2.7

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: CP22 SB040

Lab Sample ID:	280-21902-37			Date Sampled:	10/18/2011 1340
Client Matrix:	Solid	% Moisture:	16.5	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	060SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/07/2011 2236			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.045	U Q	0.016	0.22
Copper		0.93	J	0.080	2.8
Lead		5.4		0.020	0.11
Nickel		1.2		0.028	0.39
Zinc		5.4		0.35	2.8

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP22 SB041**

Lab Sample ID:	280-21902-38			Date Sampled:	10/18/2011 1350
Client Matrix:	Solid	% Moisture:	14.0	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	061SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	11/07/2011 2239			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.040	U Q	0.014	0.20
Copper		0.82	J	0.071	2.5
Lead		3.0		0.018	0.10
Nickel		1.9		0.025	0.35
Zinc		5.5		0.32	2.5

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP25 SB048**

Lab Sample ID:	280-21902-39			Date Sampled:	10/18/2011 1325
Client Matrix:	Solid	% Moisture:	10.7	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	065SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/07/2011 2251			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.038	U Q	0.013	0.19
Copper		0.68	J	0.068	2.4
Lead		4.6		0.017	0.096
Nickel		0.64		0.024	0.33
Zinc		4.2		0.30	2.4

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: CP25 SB049

Lab Sample ID:	280-21902-40			Date Sampled:	10/18/2011 1335
Client Matrix:	Solid	% Moisture:	10.7	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	066SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	11/07/2011 2253			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.039	U Q	0.014	0.20
Copper		0.69	J	0.070	2.5
Lead		3.2		0.018	0.098
Nickel		1.3		0.025	0.34
Zinc		5.7		0.31	2.5

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID:	**CP24 SB046**				
Lab Sample ID:	280-21902-41			Date Sampled:	10/18/2011 1300
Client Matrix:	Solid	% Moisture:	12.6	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	067SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/07/2011 2256			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.039	U Q	0.014	0.20
Copper		0.79	J	0.070	2.4
Lead		4.5		0.018	0.098
Nickel		0.96		0.025	0.34
Zinc		4.9		0.31	2.4

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: CP24 SB047

Lab Sample ID:	280-21902-42			Date Sampled:	10/18/2011 1315
Client Matrix:	Solid	% Moisture:	12.6	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	068SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	11/07/2011 2259			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		1.2	J	0.075	2.6
Lead		4.1		0.019	0.10
Nickel		2.5		0.027	0.37
Zinc		6.6		0.33	2.6

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP26 SB050**

Lab Sample ID:	280-21902-43			Date Sampled:	10/18/2011 1235
Client Matrix:	Solid	% Moisture:	14.3	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	069SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/07/2011 2302			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.044	U Q	0.015	0.22
Copper		1.2	J	0.078	2.8
Lead		6.1		0.020	0.11
Nickel		2.0		0.028	0.39
Zinc		7.3		0.35	2.8

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP26 SB051**

Lab Sample ID:	280-21902-44			Date Sampled:	10/18/2011 1240
Client Matrix:	Solid	% Moisture:	12.9	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	070SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/07/2011 2305			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.039	U Q	0.014	0.20
Copper		1.6	J	0.070	2.5
Lead		4.2		0.018	0.098
Nickel		4.3		0.025	0.34
Zinc		9.8		0.31	2.5

Analytical Data

Client: UXB International, Inc.   Job Number: 280-21902-1

Client Sample ID: **CP21 SB038**

Lab Sample ID:	280-21902-45			Date Sampled:	10/18/2011 1220
Client Matrix:	Solid	% Moisture:	15.1	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	071SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	11/07/2011 2308			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.046	U Q	0.016	0.23
Copper		1.1	J	0.082	2.9
Lead		8.7		0.021	0.12
Nickel		1.5		0.029	0.40
Zinc		6.0		0.36	2.9

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP21 SB039**

Lab Sample ID:	280-21902-46			Date Sampled:	10/18/2011 1228
Client Matrix:	Solid	% Moisture:	12.6	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	072SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/07/2011 2311			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.044	U Q	0.016	0.22
Copper		1.3	J	0.079	2.8
Lead		7.0		0.020	0.11
Nickel		2.7		0.028	0.39
Zinc		8.1		0.35	2.8

Analytical Data

Client: UXB International, Inc.

Job Number: 280-21902-1

Client Sample ID: **CP20 SB037**

Lab Sample ID: 280-21902-47
Client Matrix: Solid
% Moisture: 9.3
Date Sampled: 10/18/2011 1330
Date Received: 10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	081SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	11/07/2011 2337			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.044	U Q	0.015	0.22
Copper		1.0	J	0.078	2.7
Lead		3.7		0.020	0.11
Nickel		1.7		0.028	0.38
Zinc		5.7		0.35	2.7

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP20 SB036**

Lab Sample ID:	280-21902-48			Date Sampled:	10/18/2011 1415
Client Matrix:	Solid	% Moisture:	11.0	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	082SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	11/07/2011 2340			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.039	U Q	0.014	0.20
Copper		1.1	J	0.070	2.5
Lead		6.1		0.018	0.099
Nickel		1.1		0.025	0.35
Zinc		5.8		0.31	2.5

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP23 SB042**

Lab Sample ID:	280-21902-50			Date Sampled:	10/18/2011 1440
Client Matrix:	Solid	% Moisture:	15.8	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	104SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 0045			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.045	U Q	0.016	0.23
Copper		1.2	J	0.080	2.8
Lead		6.7		0.021	0.11
Zinc		7.2		0.36	2.8

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	020SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 1950			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		1.8		0.029	0.40

Client Sample ID: **CP23 SB044**

Lab Sample ID:	280-21902-51			Date Sampled:	10/18/2011 1440
Client Matrix:	Solid	% Moisture:	14.5	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	105SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	11/08/2011 0048			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.041	U Q	0.014	0.21
Copper		1.1	J	0.074	2.6
Lead		6.2		0.019	0.10
Zinc		6.7		0.33	2.6

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	021SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	11/08/2011 1953			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		1.9		0.026	0.36

Analytical Data

Client: UXB International, Inc.　　　　Job Number: 280-21902-1

Client Sample ID: **CP23 SB043**

Lab Sample ID:	280-21902-52			Date Sampled:	10/18/2011 1450
Client Matrix:	Solid	% Moisture:	11.7	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92643	Lab File ID:	076AREF.D
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	11/07/2011 2323			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.040	U Q J	0.014	0.20
Copper		1.3	J	0.071	2.5
Lead		4.0		0.018	0.099
Nickel		3.7		0.025	0.35
Zinc		7.8		0.31	2.5

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP03 IS009**

Lab Sample ID:	280-21902-53	Date Sampled:	10/18/2011 1428
Client Matrix:	Solid	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-95210	Lab File ID:	054AREF.D
Dilution:	1.0	Leach Batch:	280-92658	Initial Weight/Volume:	10.67 g
Analysis Date:	11/08/2011 2129			Final Weight/Volume:	500 mL
Prep Date:	11/08/2011 0900				
Leach Date:	10/22/2011 1608				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.017	Q J	0.0066	0.19
Copper		2.1	J	0.033	2.3
Lead		9.0		0.0085	0.094
Nickel		1.6		0.012	0.33
Zinc		9.7		0.15	2.3

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP03 IS008**

Lab Sample ID:	280-21902-54	Date Sampled:	10/18/2011 1345
Client Matrix:	Solid	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-95210	Lab File ID:	059SMPL.D
Dilution:	1.0	Leach Batch:	280-92658	Initial Weight/Volume:	10.09 g
Analysis Date:	11/08/2011 2143			Final Weight/Volume:	500 mL
Prep Date:	11/08/2011 0900				
Leach Date:	10/22/2011 1608				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.014	J Q	0.0069	0.20
Copper		1.8	J	0.035	2.5
Lead		8.0		0.0090	0.099
Nickel		1.3		0.013	0.35
Zinc		8.8		0.16	2.5

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP03 IS007**

Lab Sample ID: 280-21902-55 Date Sampled: 10/18/2011 1245
Client Matrix: Solid Date Received: 10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-95210	Lab File ID:	063SMPL.D
Dilution:	1.0	Leach Batch:	280-92658	Initial Weight/Volume:	10.25 g
Analysis Date:	11/08/2011 2155			Final Weight/Volume:	500 mL
Prep Date:	11/08/2011 0900				
Leach Date:	10/22/2011 1608				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.016	J Q	0.0068	0.20
Copper		2.0	J	0.035	2.4
Lead		9.1		0.0089	0.098
Nickel		1.3		0.012	0.34
Zinc		9.2		0.15	2.4

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP02 IS004**

Lab Sample ID: 280-21902-56 Date Sampled: 10/17/2011 1337
Client Matrix: Solid Date Received: 10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-95210	Lab File ID:	064SMPL.D
Dilution:	1.0	Leach Batch:	280-92658	Initial Weight/Volume:	10.38 g
Analysis Date:	11/08/2011 2157			Final Weight/Volume:	500 mL
Prep Date:	11/08/2011 0900				
Leach Date:	10/22/2011 1608				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.043	J Q	0.0067	0.19
Copper		2.8		0.034	2.4
Lead		14		0.0088	0.096
Nickel		1.5		0.012	0.34
Zinc		8.8		0.15	2.4

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP02 IS005**

Lab Sample ID: 280-21902-57 | Date Sampled: 10/17/2011 1436
Client Matrix: Solid | Date Received: 10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-95210	Lab File ID:	065SMPL.D
Dilution:	1.0	Leach Batch:	280-92658	Initial Weight/Volume:	10.22 g
Analysis Date:	11/08/2011 2200			Final Weight/Volume:	500 mL
Prep Date:	11/08/2011 0900				
Leach Date:	10/22/2011 1608				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.049	J Q	0.0068	0.20
Copper		3.2		0.035	2.4
Lead		15		0.0089	0.098
Nickel		1.5		0.012	0.34
Zinc		10		0.15	2.4

Analytical Data

Client: UXB International, Inc.　　Job Number: 280-21902-1

Client Sample ID: **CP02 IS006**

Lab Sample ID: 280-21902-58　　Date Sampled: 10/17/2011 1517

Client Matrix: Solid　　Date Received: 10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-95210	Lab File ID:	066SMPL.D
Dilution:	1.0	Leach Batch:	280-92658	Initial Weight/Volume:	10.26 g
Analysis Date:	11/08/2011 2203			Final Weight/Volume:	500 mL
Prep Date:	11/08/2011 0900				
Leach Date:	10/22/2011 1608				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.053	J Q	0.0068	0.19
Copper		3.6		0.035	2.4
Lead		16		0.0089	0.097
Nickel		2.0		0.012	0.34
Zinc		12		0.15	2.4

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP13 SB019**

Lab Sample ID:	280-21902-59			Date Sampled:	10/17/2011 1246
Client Matrix:	Solid	% Moisture:	14.3	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	106SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	11/08/2011 0051			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.046	U Q	0.016	0.23
Copper		1.2	J	0.082	2.9
Lead		6.4		0.021	0.12
Zinc		4.3		0.37	2.9

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	022SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	11/08/2011 1955			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		1.1		0.029	0.40

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP13 SB021**

Lab Sample ID:	280-21902-60			Date Sampled:	10/17/2011 1246
Client Matrix:	Solid	% Moisture:	13.8	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	107SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	11/08/2011 0054			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.046	U Q	0.016	0.23
Copper		0.90	J	0.082	2.9
Lead		6.4		0.021	0.11
Zinc		3.9		0.36	2.9

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	023SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	11/08/2011 1958			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		1.0		0.029	0.40

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP13 SB020**

Lab Sample ID:	280-21902-61			Date Sampled:	10/17/2011 1250
Client Matrix:	Solid	% Moisture:	11.3	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	108AREF.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/08/2011 0057			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q J	0.015	0.21
Copper		1.1	J	0.075	2.6
Lead		4.5		0.019	0.11
Zinc		5.5		0.33	2.6

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	024AREF.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/08/2011 2001			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		2.4		0.027	0.37

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP14 SB023**

Lab Sample ID:	280-21902-63			Date Sampled:	10/17/2011 1306
Client Matrix:	Solid	% Moisture:	13.4	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	116SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/08/2011 0120			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.018	J Q	0.015	0.22
Copper		1.3	J	0.077	2.7
Lead		9.0		0.020	0.11
Zinc		7.9		0.34	2.7

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	032SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/08/2011 2024			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		1.9		0.028	0.38

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP14 SB024**

Lab Sample ID:	280-21902-64			Date Sampled:	10/17/2011 1310
Client Matrix:	Solid	% Moisture:	9.9	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	117SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/08/2011 0123			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.043	U Q	0.015	0.21
Copper		1.1	J	0.076	2.7
Lead		4.8		0.019	0.11
Zinc		7.6		0.34	2.7

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	033SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/08/2011 2027			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		3.5		0.027	0.37

Analytical Data

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP18 SB031**

Lab Sample ID:	280-21902-65			Date Sampled:	10/17/2011 1330
Client Matrix:	Solid	% Moisture:	12.2	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	118SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 0126			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.043	U Q	0.015	0.22
Copper		1.2	J	0.077	2.7
Lead		11		0.020	0.11
Zinc		4.2		0.34	2.7

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	034SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 2030			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		1.2		0.027	0.38

Client: UXB International, Inc.　　Job Number: 280-21902-1

Client Sample ID: **CP18 SB032**

Lab Sample ID:	280-21902-66			Date Sampled:	10/17/2011 1336
Client Matrix:	Solid	% Moisture:	14.1	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	119SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/08/2011 0129			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.040	U Q	0.014	0.20
Copper		1.1	J	0.071	2.5
Lead		7.8		0.018	0.099
Zinc		5.7		0.31	2.5

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	035SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/08/2011 2033			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		2.2		0.025	0.35

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP18 SB033**

Lab Sample ID:	280-21902-67			Date Sampled:	10/17/2011 1336
Client Matrix:	Solid	% Moisture:	14.2	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	120SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/08/2011 0132			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		1.1	J	0.075	2.6
Lead		7.5		0.019	0.11
Zinc		7.9		0.33	2.6

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	036SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/08/2011 2036			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		3.2		0.027	0.37

Analytical Data

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP15 SB025**

Lab Sample ID: 280-21902-68 Date Sampled: 10/17/2011 1355
Client Matrix: Solid % Moisture: 11.4 Date Received: 10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	124SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	11/08/2011 0144			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		1.1	J	0.074	2.6
Lead		7.0		0.019	0.10
Zinc		4.6		0.33	2.6

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	040SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	11/08/2011 2048			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		1.1		0.026	0.37

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP15 SB026**

Lab Sample ID:	280-21902-69			Date Sampled:	10/17/2011 1357
Client Matrix:	Solid	% Moisture:	13.0	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	125SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/08/2011 0147			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.042	U Q	0.015	0.21
Copper		0.95	J	0.074	2.6
Lead		6.9		0.019	0.10
Zinc		6.3		0.33	2.6

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	041SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/08/2011 2051			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		2.2		0.026	0.37

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP16 SB027**

Lab Sample ID:	280-21902-70			Date Sampled:	10/17/2011 1420
Client Matrix:	Solid	% Moisture:	17.9	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	126SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/08/2011 0149			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.047	U Q	0.016	0.23
Copper		1.1	J	0.083	2.9
Lead		13		0.021	0.12
Zinc		4.0		0.37	2.9

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	042SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/08/2011 2053			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		1.5		0.030	0.41

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP16 SB028**

Lab Sample ID: 280-21902-71 | Date Sampled: 10/17/2011 1440
Client Matrix: Solid | % Moisture: 15.7 | Date Received: 10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	127SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 0152			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.045	U Q	0.016	0.23
Copper		1.6	J	0.080	2.8
Lead		8.3		0.021	0.11
Zinc		8.5		0.36	2.8

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	043SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 2056			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		4.4		0.029	0.40

Client Sample ID:	**CP19 SB034**				
Lab Sample ID:	280-21902-72			Date Sampled:	10/17/2011 1442
Client Matrix:	Solid	% Moisture:	20.7	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	128SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/08/2011 0155			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.048	U Q	0.017	0.24
Copper		1.1	J	0.086	3.0
Lead		17		0.022	0.12
Zinc		4.8		0.38	3.0

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	044SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	11/08/2011 2059			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		1.5		0.031	0.42

Client: UXB International, Inc. Job Number: 280-21902-1

Client Sample ID: **CP19 SB035**

Lab Sample ID:	280-21902-73			Date Sampled:	10/17/2011 1444
Client Matrix:	Solid	% Moisture:	14.5	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	129SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	11/08/2011 0158			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.041	U Q	0.014	0.21
Copper		1.5	J	0.073	2.6
Lead		11		0.019	0.10
Zinc		6.4		0.32	2.6

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	045SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	11/08/2011 2102			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		2.8		0.026	0.36

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP17 SB029**

Lab Sample ID:	280-21902-74			Date Sampled:	10/17/2011 1453
Client Matrix:	Solid	% Moisture:	14.8	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	130SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	11/08/2011 0201			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.040	U Q	0.014	0.20
Copper		0.68	J	0.071	2.5
Lead		9.4		0.018	0.10
Zinc		4.2		0.31	2.5

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	046SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	11/08/2011 2105			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		1.4		0.025	0.35

Client: UXB International, Inc. | Job Number: 280-21902-1

Client Sample ID: **CP17 SB030**

Lab Sample ID:	280-21902-75			Date Sampled:	10/17/2011 1503
Client Matrix:	Solid	% Moisture:	14.1	Date Received:	10/21/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	131SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	11/08/2011 0204			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.039	U Q	0.014	0.20
Copper		1.0	J	0.070	2.5
Lead		4.3		0.018	0.099
Zinc		5.8		0.31	2.5

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-92644	Lab File ID:	047SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	11/08/2011 2108			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Nickel		2.7		0.025	0.35

General Chemistry

Client Sample ID: **TP05 SD018**

Lab Sample ID: 280-21902-1 Date Sampled: 10/19/2011 1110

Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	38		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	62		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP06 SD019**

Lab Sample ID: 280-21902-2 Date Sampled: 10/19/2011 1115
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	35		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	65		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP07 SD020**

Lab Sample ID:	280-21902-3	Date Sampled:	10/19/2011 1120
Client Matrix:	Solid	Date Received:	10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	32		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	68		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP08 SD021**

Lab Sample ID: 280-21902-4
Client Matrix: Solid

Date Sampled: 10/19/2011 1130
Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	56		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	44		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP09 SD022**

Lab Sample ID: 280-21902-5
Client Matrix: Solid

Date Sampled: 10/19/2011 1125
Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	59		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	41		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP10 SD023**

Lab Sample ID: 280-21902-6 Date Sampled: 10/19/2011 1135

Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	59		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	41		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP11 SD024**

Lab Sample ID: 280-21902-7 Date Sampled: 10/19/2011 1140
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	31		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737					DryWt Corrected: N
Percent Solids	69		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737					DryWt Corrected: N

General Chemistry

Client Sample ID: TP12 SD025

Lab Sample ID: 280-21902-8 Date Sampled: 10/19/2011 1145
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	60		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	40		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP13 SD026**

Lab Sample ID: 280-21902-9 Date Sampled: 10/19/2011 1150

Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	57		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737					DryWt Corrected: N
Percent Solids	43		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737					DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21902-1

General Chemistry

Client Sample ID: **TP14 SD027**

Lab Sample ID: 280-21902-10 Date Sampled: 10/19/2011 0955
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	28		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	72		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP14 SD028**

Lab Sample ID: 280-21902-11 Date Sampled: 10/19/2011 0955
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	25		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	75		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP15 SD029**

Lab Sample ID: 280-21902-12 Date Sampled: 10/19/2011 1030

Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	27		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	73		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP16 SD030**

Lab Sample ID: 280-21902-13 Date Sampled: 10/19/2011 1020
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	21		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	79		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP17 SD031**

Lab Sample ID: 280-21902-14 Date Sampled: 10/19/2011 0948
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	24		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737					DryWt Corrected: N
Percent Solids	76		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737					DryWt Corrected: N

General Chemistry

Client Sample ID: **TP18 SD032**

Lab Sample ID: 280-21902-15 Date Sampled: 10/19/2011 1045

Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	33		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	67		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP19 SD033**

Lab Sample ID: 280-21902-16 Date Sampled: 10/19/2011 1040
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	40		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	60		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

Client: UXB International, Inc. | Job Number: 280-21902-1

General Chemistry

Client Sample ID: **TP20 SD034**

Lab Sample ID: 280-21902-17 | Date Sampled: 10/19/2011 1105
Client Matrix: Solid | Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	21		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	79		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP21 SD035**

Lab Sample ID: 280-21902-18
Client Matrix: Solid

Date Sampled: 10/19/2011 1055
Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	20		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905		Analysis Date: 10/25/2011 0737					DryWt Corrected: N
Percent Solids	80		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905		Analysis Date: 10/25/2011 0737					DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21902-1

General Chemistry

Client Sample ID: **TP21 SD036**

Lab Sample ID: 280-21902-19 Date Sampled: 10/19/2011 1055
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	22		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	78		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP01 SB128**

Lab Sample ID: 280-21902-20
Client Matrix: Solid

Date Sampled: 10/19/2011 1330
Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	19		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N
Percent Solids	81		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92905	Analysis Date: 10/25/2011 0737						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP01 SB129**

Lab Sample ID: 280-21902-21 Date Sampled: 10/19/2011 1332
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	18		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	82		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: TP01 SB130

Lab Sample ID: 280-21902-22 Date Sampled: 10/19/2011 1335
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 0924					DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 0924					DryWt Corrected: N

General Chemistry

Client Sample ID: **TP01 SB131**

Lab Sample ID: 280-21902-23 Date Sampled: 10/19/2011 1345
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21902-1

General Chemistry

Client Sample ID: **CP27 SB052**

Lab Sample ID: 280-21902-35 Date Sampled: 10/18/2011 1355
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	16		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	84		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP27 SB053**

Lab Sample ID: 280-21902-36 Date Sampled: 10/18/2011 1405
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 0924					DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 0924					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP22 SB040**

Lab Sample ID:	280-21902-37	Date Sampled:	10/18/2011 1340
Client Matrix:	Solid	Date Received:	10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	17		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	83		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: CP22 SB041

Lab Sample ID: 280-21902-38 Date Sampled: 10/18/2011 1350

Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP25 SB048**

Lab Sample ID: 280-21902-39
Client Matrix: Solid

Date Sampled: 10/18/2011 1325
Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 0924					DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 0924					DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21902-1

General Chemistry

Client Sample ID: **CP25 SB049**

Lab Sample ID: 280-21902-40 Date Sampled: 10/18/2011 1335
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP24 SB046**

Lab Sample ID: 280-21902-41 Date Sampled: 10/18/2011 1300
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP24 SB047**

Lab Sample ID: 280-21902-42 Date Sampled: 10/18/2011 1315
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 0924					DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 0924					DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21902-1

General Chemistry

Client Sample ID: CP26 SB050

Lab Sample ID: 280-21902-43 Date Sampled: 10/18/2011 1235
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP26 SB051**

Lab Sample ID: 280-21902-44 Date Sampled: 10/18/2011 1240
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21902-1

General Chemistry

Client Sample ID: **CP21 SB038**

Lab Sample ID: 280-21902-45 Date Sampled: 10/18/2011 1220
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	15		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924					DryWt Corrected: N
Percent Solids	85		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP21 SB039**

Lab Sample ID:	280-21902-46	Date Sampled:	10/18/2011 1228
Client Matrix:	Solid	Date Received:	10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924					DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP20 SB037**

Lab Sample ID: 280-21902-47
Client Matrix: Solid

Date Sampled: 10/18/2011 1330
Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	9.3		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 0924					DryWt Corrected: N
Percent Solids	91		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 0924					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP20 SB036**

Lab Sample ID: 280-21902-48 Date Sampled: 10/18/2011 1415
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP23 SB042**

Lab Sample ID: 280-21902-50 Date Sampled: 10/18/2011 1440
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	16		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	84		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP23 SB044**

Lab Sample ID: 280-21902-51 Date Sampled: 10/18/2011 1440

Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP23 SB043**

Lab Sample ID: 280-21902-52 Date Sampled: 10/18/2011 1450

Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP13 SB019**

Lab Sample ID: 280-21902-59 Date Sampled: 10/17/2011 1246
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924					DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP13 SB021**

Lab Sample ID: 280-21902-60 Date Sampled: 10/17/2011 1246
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP13 SB020**

Lab Sample ID: 280-21902-61 Date Sampled: 10/17/2011 1250
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 0924					DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 0924					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP14 SB023**

Lab Sample ID: 280-21902-63 Date Sampled: 10/17/2011 1306
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924					DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924					DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21902-1

General Chemistry

Client Sample ID: **CP14 SB024**

Lab Sample ID: 280-21902-64 Date Sampled: 10/17/2011 1310
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	9.9		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924					DryWt Corrected: N
Percent Solids	90		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP18 SB031**

Lab Sample ID: 280-21902-65 Date Sampled: 10/17/2011 1330
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP18 SB032**

Lab Sample ID: 280-21902-66 Date Sampled: 10/17/2011 1336

Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 1304					DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 1304					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP18 SB033**

Lab Sample ID: 280-21902-67 Date Sampled: 10/17/2011 1336
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 1304					DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 1304					DryWt Corrected: N

General Chemistry

Client Sample ID: CP15 SB025

Lab Sample ID: 280-21902-68 Date Sampled: 10/17/2011 1355
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 1304						DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 1304						DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21902-1

General Chemistry

Client Sample ID: CP15 SB026

Lab Sample ID: 280-21902-69 Date Sampled: 10/17/2011 1357

Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924					DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 0924					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP16 SB027**

Lab Sample ID: 280-21902-70 Date Sampled: 10/17/2011 1420
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	18		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 1304						DryWt Corrected: N
Percent Solids	82		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 1304						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP16 SB028**

Lab Sample ID: 280-21902-71 Date Sampled: 10/17/2011 1440
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	16		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 1304					DryWt Corrected: N
Percent Solids	84		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 1304					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP19 SB034**

Lab Sample ID: 280-21902-72
Client Matrix: Solid

Date Sampled: 10/17/2011 1442
Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	21		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 1304					DryWt Corrected: N
Percent Solids	79		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-92752	Analysis Date: 10/24/2011 1304					DryWt Corrected: N

General Chemistry

Client Sample ID: CP19 SB035

Lab Sample ID: 280-21902-73 Date Sampled: 10/17/2011 1444
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 1304					DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752		Analysis Date: 10/24/2011 1304					DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-21902-1

General Chemistry

Client Sample ID: **CP17 SB029**

Lab Sample ID: 280-21902-74 Date Sampled: 10/17/2011 1453
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	15		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 1304						DryWt Corrected: N
Percent Solids	85		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 1304						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP17 SB030**

Lab Sample ID: 280-21902-75 Date Sampled: 10/17/2011 1503
Client Matrix: Solid Date Received: 10/21/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	14		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 1304						DryWt Corrected: N
Percent Solids	86		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-92752	Analysis Date: 10/24/2011 1304						DryWt Corrected: N

Surrogate Recovery Report

8321B Nitroaromatics and Nitramines (LC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	NBZ %Rec
280-21902-1	TP05 SD018	87
280-21902-2	TP06 SD019	86
280-21902-3	TP07 SD020	84
280-21902-4	TP08 SD021	92
280-21902-5	TP09 SD022	84M
280-21902-6	TP10 SD023	94M
280-21902-7	TP11 SD024	87
280-21902-8	TP12 SD025	88
280-21902-9	TP13 SD026	84M
280-21902-10	TP14 SD027	77M
280-21902-11	TP14 SD028	87M
280-21902-12	TP15 SD029	80M
280-21902-13	TP16 SD030	80M
280-21902-14	TP17 SD031	85M
280-21902-15	TP18 SD032	83M
280-21902-16	TP19 SD033	79
280-21902-17	TP20 SD034	81M
280-21902-18	TP21 SD035	79M
280-21902-19	TP21 SD036	79M
280-21902-20	TP01 SB128	83
280-21902-21	TP01 SB129	81
280-21902-22	TP01 SB130	77
280-21902-23	TP01 SB131	76
280-21902-35	CP27 SB052	70
280-21902-36	CP27 SB053	71
280-21902-37	CP22 SB040	81
280-21902-38	CP22 SB041	84
280-21902-39	CP25 SB048	74
280-21902-40	CP25 SB049	80

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	68-140

Client: UXB International, Inc. Job Number: 280-21902-1

Surrogate Recovery Report

8321B Nitroaromatics and Nitramines (LC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	NBZ %Rec
280-21902-41	CP24 SB046	78
280-21902-42	CP24 SB047	80
280-21902-43	CP26 SB050	78
280-21902-44	CP26 SB051	74
280-21902-45	CP21 SB038	75
280-21902-46	CP21 SB039	83
280-21902-47	CP20 SB037	69
280-21902-48	CP20 SB036	82
280-21902-50	CP23 SB042	79
280-21902-51	CP23 SB044	77
280-21902-52	CP23 SB043	80
280-21902-53	CP03 IS009	77
280-21902-54	CP03 IS008	89
280-21902-55	CP03 IS007	87
280-21902-56	CP02 IS004	80
280-21902-57	CP02 IS005	76
280-21902-58	CP02 IS006	76
280-21902-59	CP13 SB019	76
280-21902-60	CP13 SB021	77
280-21902-61	CP13 SB020	82
280-21902-63	CP14 SB023	75
280-21902-64	CP14 SB024	84
280-21902-65	CP18 SB031	88
280-21902-66	CP18 SB032	86
280-21902-67	CP18 SB033	77
280-21902-68	CP15 SB025	83
280-21902-69	CP15 SB026	80
280-21902-70	CP16 SB027	80
280-21902-71	CP16 SB028	79
280-21902-72	CP19 SB034	80

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	68-140

Client: UXB International, Inc. Job Number: 280-21902-1

Surrogate Recovery Report

8321B Nitroaromatics and Nitramines (LC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	NBZ %Rec
280-21902-73	CP19 SB035	82
280-21902-74	CP17 SB029	84
280-21902-75	CP17 SB030	95
MB 280-92995/1-A		74
MB 280-93019/1-A		75
MB 280-93507/1-A		87
MB 280-93548/1-A		82
GB 280-92116/1-B		86
LCS 280-92995/2-A		78
LCS 280-93019/2-A		105
LCS 280-93507/2-A		110
LCS 280-93548/2-A		90
LCSSRM 280-92116/2-B		85
280-21902-7 MS	TP11 SD024 MS	103
280-21902-22 MS	TP01 SB130 MS	78
280-21902-52 MS	CP23 SB043 MS	78
280-21902-58 MS	CP02 IS006 MS	74
280-21902-61 MS	CP13 SB020 MS	79
280-21902-7 MSD	TP11 SD024 MSD	82
280-21902-22 MSD	TP01 SB130 MSD	83
280-21902-52 MSD	CP23 SB043 MSD	79
280-21902-58 MSD	CP02 IS006 MSD	77
280-21902-61 MSD	CP13 SB020 MSD	78

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	68-140

Client: UXB International, Inc. Job Number: 280-21902-1

Method Blank - Batch: 280-92995

Method: 8321B
Preparation: 8330B

Lab Sample ID:	MB 280-92995/1-A	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92995	Lab File ID:	ex41J21751.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.46 g
Analysis Date:	11/03/2011 1202	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.024	U	0.012	0.096
1,3-Dinitrobenzene	0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene	0.012	U	0.0048	0.096
2,4-Dinitrotoluene	0.012	U	0.0078	0.096
2,6-Dinitrotoluene	0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene	0.024	U	0.011	0.096
2-Nitrotoluene	0.012	U	0.0055	0.096
3-Nitrotoluene	0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene	0.012	U	0.0049	0.096
4-Nitrotoluene	0.024	U	0.011	0.096
HMX	0.012	U	0.0056	0.096
Nitrobenzene	0.012	U	0.010	0.096
Nitroglycerin	0.012	U	0.010	0.096
PETN	0.012	U	0.0049	0.096
RDX	0.012	U	0.0041	0.096
Tetryl	0.012	U	0.0073	0.096

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	74	68 - 140

Lab Control Sample - Batch: 280-92995

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCS 280-92995/2-A	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92995	Lab File ID:	ex41J21752.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.17 g
Analysis Date:	11/03/2011 1216	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.393	0.341	87	45 - 142	
1,3-Dinitrobenzene	0.393	0.355	90	74 - 130	
2,4,6-Trinitrotoluene	0.393	0.276	70	60 - 135	
2,4-Dinitrotoluene	0.393	0.363	92	63 - 130	
2,6-Dinitrotoluene	0.393	0.346	88	65 - 133	
2-Amino-4,6-dinitrotoluene	0.393	0.393	100	51 - 148	
2-Nitrotoluene	0.393	0.348	88	59 - 150	
3-Nitrotoluene	0.393	0.368	93	56 - 154	
4-Amino-2,6-dinitrotoluene	0.393	0.358	91	60 - 141	
4-Nitrotoluene	0.393	0.341	87	72 - 145	
HMX	0.393	0.342	87	48 - 131	
Nitrobenzene	0.393	0.365	93	70 - 140	
Nitroglycerin	0.393	0.324	82	27 - 146	
PETN	0.393	0.380	97	31 - 171	
RDX	0.393	0.378	96	69 - 130	
Tetryl	0.393	0.288	73	10 - 170	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	78	68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92995

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21902-22	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92995	Lab File ID:	ex41J21755.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.35 g
Analysis Date:	11/03/2011 1257			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

MSD Lab Sample ID:	280-21902-22	Analysis Batch:	280-94610	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-92995	Lab File ID:	ex41J21756.d
Dilution:	1.0	Leach Batch:	280-92661	Initial Weight/Volume:	10.42 g
Analysis Date:	11/03/2011 1311			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1622				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,3,5-Trinitrobenzene	80	89	45 - 142	10	70		
1,3-Dinitrobenzene	92	92	74 - 130	1	25		
2,4,6-Trinitrotoluene	67	69	60 - 135	3	25		
2,4-Dinitrotoluene	90	103	63 - 130	13	25		
2,6-Dinitrotoluene	85	90	65 - 133	5	25		
2-Amino-4,6-dinitrotoluene	102	100	51 - 148	3	25		
2-Nitrotoluene	89	101	59 - 150	12	45		
3-Nitrotoluene	89	101	56 - 154	13	25		
4-Amino-2,6-dinitrotoluene	84	85	60 - 141	0	48		
4-Nitrotoluene	85	97	72 - 145	13	25		
HMX	85	81	48 - 131	5	25		
Nitrobenzene	84	91	70 - 140	7	25		
Nitroglycerin	84	77	27 - 146	9	92		
PETN	99	108	31 - 171	9	40		
RDX	94	96	69 - 130	2	25		
Tetryl	62	69	10 - 170	10	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	78	83	68 - 140

Client: UXB International, Inc.   Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92995

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21902-22	Units: mg/Kg		MSD Lab Sample ID:	280-21902-22
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/03/2011 1257			Analysis Date:	11/03/2011 1311
Prep Date:	10/25/2011 1945			Prep Date:	10/25/2011 1945
Leach Date:	10/22/2011 1622			Leach Date:	10/22/2011 1622

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,3,5-Trinitrobenzene	0.024	U	0.386	0.384	0.310	0.341
1,3-Dinitrobenzene	0.012	U	0.386	0.384	0.357	0.355
2,4,6-Trinitrotoluene	0.012	U	0.386	0.384	0.257	0.266
2,4-Dinitrotoluene	0.012	U	0.386	0.384	0.347	0.396
2,6-Dinitrotoluene	0.024	U	0.386	0.384	0.329	0.345
2-Amino-4,6-dinitrotoluene	0.024	U	0.386	0.384	0.393	0.382
2-Nitrotoluene	0.012	U	0.386	0.384	0.344	0.386
3-Nitrotoluene	0.024	U	0.386	0.384	0.342	0.388
4-Amino-2,6-dinitrotoluene	0.012	U	0.386	0.384	0.325	0.326
4-Nitrotoluene	0.024	U	0.386	0.384	0.329	0.373
HMX	0.012	U	0.386	0.384	0.327	0.311
Nitrobenzene	0.012	U	0.386	0.384	0.327	0.349
Nitroglycerin	0.012	U	0.386	0.384	0.325	0.296
PETN	0.012	U	0.386	0.384	0.381	0.416
RDX	0.012	U	0.386	0.384	0.362	0.369
Tetryl	0.012	U	0.386	0.384	0.239	0.266

Client: UXB International, Inc. Job Number: 280-21902-1

Method Blank - Batch: 280-93019

Method: 8321B
Preparation: 8330B

Lab Sample ID:	MB 280-93019/1-A	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93019	Lab File ID:	ex41J21778.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.56 g
Analysis Date:	11/03/2011 1812	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.024	U	0.012	0.095
1,3-Dinitrobenzene	0.012	U	0.0067	0.095
2,4,6-Trinitrotoluene	0.012	U	0.0048	0.095
2,4-Dinitrotoluene	0.012	U	0.0078	0.095
2,6-Dinitrotoluene	0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene	0.024	U	0.011	0.095
2-Nitrotoluene	0.012	U	0.0054	0.095
3-Nitrotoluene	0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene	0.012	U	0.0048	0.095
4-Nitrotoluene	0.024	U	0.010	0.095
HMX	0.012	U	0.0055	0.095
Nitrobenzene	0.012	U	0.010	0.095
Nitroglycerin	0.012	U	0.0099	0.095
PETN	0.012	U	0.0049	0.095
RDX	0.012	U	0.0041	0.095
Tetryl	0.012	U	0.0072	0.095

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	75	68 - 140

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Control Sample - Batch: 280-93019

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCS 280-93019/2-A	Analysis Batch:	280-94725	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93019	Lab File ID:	ex41J21835.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	11/04/2011 0710	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.400	0.372	93	45 - 142	
1,3-Dinitrobenzene	0.400	0.409	102	74 - 130	
2,4,6-Trinitrotoluene	0.400	0.296	74	60 - 135	
2,4-Dinitrotoluene	0.400	0.410	103	63 - 130	
2,6-Dinitrotoluene	0.400	0.414	104	65 - 133	
2-Amino-4,6-dinitrotoluene	0.400	0.476	119	51 - 148	
2-Nitrotoluene	0.400	0.478	120	59 - 150	
3-Nitrotoluene	0.400	0.456	114	56 - 154	
4-Amino-2,6-dinitrotoluene	0.400	0.462	116	60 - 141	
4-Nitrotoluene	0.400	0.465	116	72 - 145	
HMX	0.400	0.372	93	48 - 131	
Nitrobenzene	0.400	0.387	97	70 - 140	
Nitroglycerin	0.400	0.330	82	27 - 146	
PETN	0.400	0.491	123	31 - 171	
RDX	0.400	0.425	106	69 - 130	
Tetryl	0.400	0.310	77	10 - 170	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	105	68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-93019

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21902-52	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93019	Lab File ID:	ex41J21781.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.78 g
Analysis Date:	11/03/2011 1853			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

MSD Lab Sample ID:	280-21902-52	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93019	Lab File ID:	ex41J21782.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.54 g
Analysis Date:	11/03/2011 1906			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,3,5-Trinitrobenzene	88	86	45 - 142	0	70		
1,3-Dinitrobenzene	91	94	74 - 130	6	25		
2,4,6-Trinitrotoluene	69	67	60 - 135	1	25		
2,4-Dinitrotoluene	91	87	63 - 130	3	25		
2,6-Dinitrotoluene	85	86	65 - 133	4	25		
2-Amino-4,6-dinitrotoluene	106	114	51 - 148	9	25		
2-Nitrotoluene	87	97	59 - 150	12	45		
3-Nitrotoluene	93	98	56 - 154	8	25		
4-Amino-2,6-dinitrotoluene	88	97	60 - 141	12	48		
4-Nitrotoluene	88	96	72 - 145	12	25		
HMX	87	91	48 - 131	8	25		
Nitrobenzene	94	88	70 - 140	4	25		
Nitroglycerin	88	81	27 - 146	6	92		
PETN	104	102	31 - 171	0	40		
RDX	90	92	69 - 130	5	25		
Tetryl	70	66	10 - 170	4	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	78	79	68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-93019

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21902-61	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93019	Lab File ID:	ex41J21786.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.34 g
Analysis Date:	11/03/2011 2001			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

MSD Lab Sample ID:	280-21902-61	Analysis Batch:	280-94611	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93019	Lab File ID:	ex41J21787.d
Dilution:	1.0	Leach Batch:	280-92662	Initial Weight/Volume:	10.04 g
Analysis Date:	11/03/2011 2014			Final Weight/Volume:	40 mL
Prep Date:	10/25/2011 1945			Injection Volume:	40 uL
Leach Date:	10/22/2011 1624				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,3,5-Trinitrobenzene	79	79	45 - 142	3	70		
1,3-Dinitrobenzene	93	88	74 - 130	3	25		
2,4,6-Trinitrotoluene	65	60	60 - 135	5	25		
2,4-Dinitrotoluene	92	90	63 - 130	0	25		
2,6-Dinitrotoluene	86	87	65 - 133	4	25		
2-Amino-4,6-dinitrotoluene	96	93	51 - 148	0	25		
2-Nitrotoluene	94	97	59 - 150	6	45		
3-Nitrotoluene	86	94	56 - 154	11	25		
4-Amino-2,6-dinitrotoluene	85	92	60 - 141	11	48		
4-Nitrotoluene	84	92	72 - 145	12	25		
HMX	79	78	48 - 131	1	25		
Nitrobenzene	89	82	70 - 140	5	25		
Nitroglycerin	80	88	27 - 146	13	92		
PETN	105	103	31 - 171	1	40		
RDX	93	95	69 - 130	5	25		
Tetryl	60	55	10 - 170	5	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	79	78	68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-93019

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21902-52	Units: mg/Kg	MSD Lab Sample ID:	280-21902-52
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Analysis Date:	11/03/2011 1853		Analysis Date:	11/03/2011 1906
Prep Date:	10/25/2011 1945		Prep Date:	10/25/2011 1945
Leach Date:	10/22/2011 1624		Leach Date:	10/22/2011 1624

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,3,5-Trinitrobenzene	0.025	U	0.371	0.380	0.326	0.325
1,3-Dinitrobenzene	0.012	U	0.371	0.380	0.337	0.357
2,4,6-Trinitrotoluene	0.012	U	0.371	0.380	0.254	0.253
2,4-Dinitrotoluene	0.012	U	0.371	0.380	0.338	0.328
2,6-Dinitrotoluene	0.025	U	0.371	0.380	0.314	0.328
2-Amino-4,6-dinitrotoluene	0.025	U	0.371	0.380	0.394	0.433
2-Nitrotoluene	0.012	U	0.371	0.380	0.324	0.367
3-Nitrotoluene	0.025	U	0.371	0.380	0.344	0.373
4-Amino-2,6-dinitrotoluene	0.012	U	0.371	0.380	0.327	0.370
4-Nitrotoluene	0.025	U	0.371	0.380	0.325	0.364
HMX	0.012	U	0.371	0.380	0.321	0.346
Nitrobenzene	0.012	U	0.371	0.380	0.348	0.334
Nitroglycerin	0.012	U	0.371	0.380	0.327	0.308
PETN	0.012	U	0.371	0.380	0.386	0.386
RDX	0.012	U	0.371	0.380	0.334	0.349
Tetryl	0.012	U	0.371	0.380	0.259	0.249

Client: UXB International, Inc. Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-93019

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21902-61	Units: mg/Kg		MSD Lab Sample ID:	280-21902-61
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/03/2011 2001			Analysis Date:	11/03/2011 2014
Prep Date:	10/25/2011 1945			Prep Date:	10/25/2011 1945
Leach Date:	10/22/2011 1624			Leach Date:	10/22/2011 1624

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,3,5-Trinitrobenzene	0.023	U	0.387	0.398	0.304	0.314
1,3-Dinitrobenzene	0.011	U	0.387	0.398	0.361	0.349
2,4,6-Trinitrotoluene	0.011	U	0.387	0.398	0.252	0.240
2,4-Dinitrotoluene	0.011	U	0.387	0.398	0.356	0.357
2,6-Dinitrotoluene	0.023	U	0.387	0.398	0.334	0.347
2-Amino-4,6-dinitrotoluene	0.023	U	0.387	0.398	0.373	0.372
2-Nitrotoluene	0.011	U	0.387	0.398	0.365	0.386
3-Nitrotoluene	0.023	U	0.387	0.398	0.335	0.375
4-Amino-2,6-dinitrotoluene	0.011	U	0.387	0.398	0.328	0.366
4-Nitrotoluene	0.023	U	0.387	0.398	0.327	0.368
HMX	0.011	U	0.387	0.398	0.307	0.312
Nitrobenzene	0.011	U	0.387	0.398	0.346	0.328
Nitroglycerin	0.011	U	0.387	0.398	0.309	0.351
PETN	0.011	U	0.387	0.398	0.406	0.412
RDX	0.011	U	0.387	0.398	0.359	0.376
Tetryl	0.011	U	0.387	0.398	0.231	0.219

Client: UXB International, Inc. Job Number: 280-21902-1

Method Blank - Batch: 280-93507

Method: 8321B
Preparation: 8330B

Lab Sample ID:	MB 280-93507/1-A	Analysis Batch:	280-94612	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93507	Lab File ID:	ex41J21807.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.84 g
Analysis Date:	11/04/2011 0046	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.023	U	0.012	0.092
1,3-Dinitrobenzene	0.012	U	0.0066	0.092
2,4,6-Trinitrotoluene	0.012	U	0.0046	0.092
2,4-Dinitrotoluene	0.012	U	0.0076	0.092
2,6-Dinitrotoluene	0.023	U	0.018	0.092
2-Amino-4,6-dinitrotoluene	0.023	U	0.011	0.092
2-Nitrotoluene	0.012	U	0.0053	0.092
3-Nitrotoluene	0.023	U	0.012	0.092
4-Amino-2,6-dinitrotoluene	0.012	U	0.0047	0.092
4-Nitrotoluene	0.023	U	0.010	0.092
HMX	0.012	U	0.0054	0.092
Nitrobenzene	0.012	U	0.010	0.092
Nitroglycerin	0.012	U	0.0097	0.092
PETN	0.012	U	0.0048	0.092
RDX	0.012	U	0.0040	0.092
Tetryl	0.012	U	0.0070	0.092

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	87	68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Control Sample - Batch: 280-93507

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCS 280-93507/2-A	Analysis Batch:	280-94725	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93507	Lab File ID:	ex41J21836.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.78 g
Analysis Date:	11/04/2011 0723	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.371	0.366	99	45 - 142	
1,3-Dinitrobenzene	0.371	0.371	100	74 - 130	
2,4,6-Trinitrotoluene	0.371	0.231	62	60 - 135	
2,4-Dinitrotoluene	0.371	0.414	112	63 - 130	
2,6-Dinitrotoluene	0.371	0.403	109	65 - 133	
2-Amino-4,6-dinitrotoluene	0.371	0.473	128	51 - 148	
2-Nitrotoluene	0.371	0.442	119	59 - 150	
3-Nitrotoluene	0.371	0.475	128	56 - 154	
4-Amino-2,6-dinitrotoluene	0.371	0.473	128	60 - 141	
4-Nitrotoluene	0.371	0.456	123	72 - 145	
HMX	0.371	0.335	90	48 - 131	
Nitrobenzene	0.371	0.344	93	70 - 140	
Nitroglycerin	0.371	0.336	91	27 - 146	
PETN	0.371	0.453	122	31 - 171	
RDX	0.371	0.375	101	69 - 130	
Tetryl	0.371	0.242	65	10 - 170	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	110	68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-93507

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21902-7	Analysis Batch:	280-94725	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93507	Lab File ID:	ex41J21838.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.39 g
Analysis Date:	11/04/2011 0751			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

MSD Lab Sample ID:	280-21902-7	Analysis Batch:	280-94725	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93507	Lab File ID:	ex41J21839.d
Dilution:	1.0	Leach Batch:	280-92660	Initial Weight/Volume:	10.66 g
Analysis Date:	11/04/2011 0805			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 1825			Injection Volume:	40 uL
Leach Date:	10/22/2011 1621				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,3,5-Trinitrobenzene	89	84	45 - 142	8	70		
1,3-Dinitrobenzene	100	93	74 - 130	10	25		
2,4,6-Trinitrotoluene	64	59	60 - 135	11	25		J
2,4-Dinitrotoluene	99	93	63 - 130	9	25		
2,6-Dinitrotoluene	93	89	65 - 133	6	25		
2-Amino-4,6-dinitrotoluene	115	112	51 - 148	5	25		
2-Nitrotoluene	100	98	59 - 150	5	45		
3-Nitrotoluene	94	100	56 - 154	3	25		
4-Amino-2,6-dinitrotoluene	105	99	60 - 141	8	48		
4-Nitrotoluene	93	84	72 - 145	13	25		
HMX	83	76	48 - 131	12	25		
Nitrobenzene	100	92	70 - 140	11	25		
Nitroglycerin	82	71	27 - 146	17	92		
PETN	104	96	31 - 171	11	40		
RDX	100	92	69 - 130	11	25		
Tetryl	61	57	10 - 170	10	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	103	82	68 - 140

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-93507

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21902-7	Units:	mg/Kg
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	11/04/2011 0751		
Prep Date:	10/27/2011 1825		
Leach Date:	10/22/2011 1621		

MSD Lab Sample ID:	280-21902-7
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	11/04/2011 0805
Prep Date:	10/27/2011 1825
Leach Date:	10/22/2011 1621

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
1,3,5-Trinitrobenzene	0.025	U	0.385	0.375	0.343	0.316	
1,3-Dinitrobenzene	0.012	U	0.385	0.375	0.385	0.348	
2,4,6-Trinitrotoluene	0.012	U	0.385	0.375	0.246	0.221	J
2,4-Dinitrotoluene	0.012	U	0.385	0.375	0.382	0.348	
2,6-Dinitrotoluene	0.025	U	0.385	0.375	0.356	0.335	
2-Amino-4,6-dinitrotoluene	0.025	U	0.385	0.375	0.441	0.420	
2-Nitrotoluene	0.012	U	0.385	0.375	0.385	0.367	
3-Nitrotoluene	0.025	U	0.385	0.375	0.363	0.373	
4-Amino-2,6-dinitrotoluene	0.012	U	0.385	0.375	0.404	0.373	
4-Nitrotoluene	0.025	U	0.385	0.375	0.359	0.316	
HMX	0.012	U	0.385	0.375	0.320	0.283	
Nitrobenzene	0.012	U	0.385	0.375	0.384	0.344	
Nitroglycerin	0.012	U	0.385	0.375	0.316	0.267	
PETN	0.012	U	0.385	0.375	0.398	0.358	
RDX	0.012	U	0.385	0.375	0.385	0.345	
Tetryl	0.012	U	0.385	0.375	0.236	0.214	

Client: UXB International, Inc. | Job Number: 280-21902-1

Method Blank - Batch: 280-93548

Method: 8321B
Preparation: 8330B

Lab Sample ID:	MB 280-93548/1-A	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93548	Lab File ID:	ex41J21641.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.28 g
Analysis Date:	11/02/2011 0542	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.024	U	0.012	0.097
1,3-Dinitrobenzene	0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene	0.012	U	0.0049	0.097
2,4-Dinitrotoluene	0.012	U	0.0080	0.097
2,6-Dinitrotoluene	0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene	0.024	U	0.012	0.097
2-Nitrotoluene	0.012	U	0.0056	0.097
3-Nitrotoluene	0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene	0.012	U	0.0050	0.097
4-Nitrotoluene	0.024	U	0.011	0.097
HMX	0.012	U	0.0057	0.097
Nitrobenzene	0.012	U	0.011	0.097
Nitroglycerin	0.012	U	0.010	0.097
PETN	0.012	U	0.0050	0.097
RDX	0.012	U	0.0042	0.097
Tetryl	0.012	U	0.0074	0.097

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	82	68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Grinding Blank - Batch: 280-93548

Method: 8321B
Preparation: 8330B

Lab Sample ID:	GB 280-92116/1-B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93548	Lab File ID:	ex41J21643.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.82 g
Analysis Date:	11/02/2011 0609	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/19/2011 2322				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.023	U	0.012	0.092
1,3-Dinitrobenzene	0.012	U	0.0066	0.092
2,4,6-Trinitrotoluene	0.0998		0.0046	0.092
2,4-Dinitrotoluene	0.012	U	0.0076	0.092
2,6-Dinitrotoluene	0.023	U	0.018	0.092
2-Amino-4,6-dinitrotoluene	0.023	U	0.011	0.092
2-Nitrotoluene	0.012	U	0.0053	0.092
3-Nitrotoluene	0.023	U	0.012	0.092
4-Amino-2,6-dinitrotoluene	0.012	U	0.0047	0.092
4-Nitrotoluene	0.023	U	0.010	0.092
HMX	0.012	U	0.0054	0.092
Nitrobenzene	0.012	U	0.010	0.092
Nitroglycerin	0.012	U	0.0097	0.092
PETN	0.012	U	0.0048	0.092
RDX	0.012	U	0.0040	0.092
Tetryl	0.012	U	0.0070	0.092

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	86	68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Control Sample - Batch: 280-93548

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCS 280-93548/2-A	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93548	Lab File ID:	ex41J21642.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.07 g
Analysis Date:	11/02/2011 0555	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.397	0.305	77	45 - 142	
1,3-Dinitrobenzene	0.397	0.425	107	74 - 130	
2,4,6-Trinitrotoluene	0.397	0.244	61	60 - 135	
2,4-Dinitrotoluene	0.397	0.416	105	63 - 130	
2,6-Dinitrotoluene	0.397	0.369	93	65 - 133	
2-Amino-4,6-dinitrotoluene	0.397	0.485	122	51 - 148	
2-Nitrotoluene	0.397	0.396	100	59 - 150	
3-Nitrotoluene	0.397	0.392	99	56 - 154	
4-Amino-2,6-dinitrotoluene	0.397	0.420	106	60 - 141	
4-Nitrotoluene	0.397	0.385	97	72 - 145	
HMX	0.397	0.369	93	48 - 131	
Nitrobenzene	0.397	0.378	95	70 - 140	
Nitroglycerin	0.397	0.413	104	27 - 146	
PETN	0.397	0.486	122	31 - 171	
RDX	0.397	0.417	105	69 - 130	
Tetryl	0.397	0.222	56	10 - 170	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	90	68 - 140

LCS-Certified Reference Material - Batch: 280-93548

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCSSRM 280-92116/2-B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93548	Lab File ID:	ex41J21644.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.18 g
Analysis Date:	11/02/2011 0623	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/19/2011 2322				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.600	0.578	96	58 - 116	
1,3-Dinitrobenzene	0.602	0.610	101	69 - 116	
2,4,6-Trinitrotoluene	0.600	0.610	102	69 - 120	
2,4-Dinitrotoluene	0.600	0.581	97	69 - 137	
2,6-Dinitrotoluene	0.602	0.536	89	60 - 121	
2-Amino-4,6-dinitrotoluene	0.600	0.547	91	56 - 108	
2-Nitrotoluene	0.604	0.563	93	67 - 117	
3-Nitrotoluene	0.599	0.512	85	69 - 124	
4-Amino-2,6-dinitrotoluene	0.600	0.518	86	46 - 98	
4-Nitrotoluene	0.603	0.530	88	51 - 143	
HMX	0.600	0.568	95	59 - 131	
Nitrobenzene	0.602	0.496	82	58 - 119	
Nitroglycerin	0.600	0.549	91	60 - 115	

Quality Control Results

Client: UXB International, Inc. | Job Number: 280-21902-1

LCS-Certified Reference Material - Batch: 280-93548

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCSSRM 280-92116/2-B	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93548	Lab File ID:	ex41J21644.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.18 g
Analysis Date:	11/02/2011 0623	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/19/2011 2322				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PETN	0.600	0.634	106	60 - 115	
RDX	0.600	0.517	86	62 - 123	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	85	68 - 140

Client: UXB International, Inc.

Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-93548

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21902-58	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93548	Lab File ID:	ex41J21658.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.43 g
Analysis Date:	11/02/2011 0933			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/22/2011 1615				

MSD Lab Sample ID:	280-21902-58	Analysis Batch:	280-94252	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-93548	Lab File ID:	ex41J21659.d
Dilution:	1.0	Leach Batch:	280-92116	Initial Weight/Volume:	10.15 g
Analysis Date:	11/02/2011 0947			Final Weight/Volume:	40 mL
Prep Date:	10/27/2011 2210			Injection Volume:	40 uL
Leach Date:	10/22/2011 1615				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,3,5-Trinitrobenzene	65	75	45 - 142	17	70		
1,3-Dinitrobenzene	84	85	74 - 130	4	25		
2,4,6-Trinitrotoluene	47	48	60 - 135	6	25	J	J
2,4-Dinitrotoluene	92	88	63 - 130	2	25		
2,6-Dinitrotoluene	76	90	65 - 133	19	25		
2-Amino-4,6-dinitrotoluene	85	91	51 - 148	9	25		
2-Nitrotoluene	82	90	59 - 150	12	45		
3-Nitrotoluene	81	86	56 - 154	9	25		
4-Amino-2,6-dinitrotoluene	79	84	60 - 141	9	48		
4-Nitrotoluene	78	80	72 - 145	5	25		
HMX	78	82	48 - 131	7	25		
Nitrobenzene	80	78	70 - 140	0	25		
Nitroglycerin	74	82	27 - 146	13	92		
PETN	81	93	31 - 171	17	40		
RDX	94	92	69 - 130	1	25		
Tetryl	41	42	10 - 170	4	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	74	77	68 - 140

Client: UXB International, Inc. Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-93548

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-21902-58	Units: mg/Kg	MSD Lab Sample ID:	280-21902-58
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Analysis Date:	11/02/2011 0933		Analysis Date:	11/02/2011 0947
Prep Date:	10/27/2011 2210		Prep Date:	10/27/2011 2210
Leach Date:	10/22/2011 1615		Leach Date:	10/22/2011 1615

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,3,5-Trinitrobenzene	0.024	U	0.384	0.394	0.250		0.296	
1,3-Dinitrobenzene	0.012	U	0.384	0.394	0.321		0.335	
2,4,6-Trinitrotoluene	0.012	U	0.384	0.394	0.181	J	0.191	J
2,4-Dinitrotoluene	0.012	U	0.384	0.394	0.352		0.346	
2,6-Dinitrotoluene	0.024	U	0.384	0.394	0.293		0.354	
2-Amino-4,6-dinitrotoluene	0.024	U	0.384	0.394	0.328		0.359	
2-Nitrotoluene	0.012	U	0.384	0.394	0.316		0.355	
3-Nitrotoluene	0.024	U	0.384	0.394	0.310		0.340	
4-Amino-2,6-dinitrotoluene	0.012	U	0.384	0.394	0.305		0.333	
4-Nitrotoluene	0.024	U	0.384	0.394	0.298		0.314	
HMX	0.012	U	0.384	0.394	0.301		0.324	
Nitrobenzene	0.012	U	0.384	0.394	0.308		0.307	
Nitroglycerin	0.012	U	0.384	0.394	0.283		0.322	
PETN	0.012	U	0.384	0.394	0.309		0.367	
RDX	0.012	U	0.384	0.394	0.361		0.365	
Tetryl	0.012	U	0.384	0.394	0.158		0.165	

Client: UXB International, Inc. Job Number: 280-21902-1

Method Blank - Batch: 280-92642 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	MB 280-92642/1-A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92642	Lab File ID:	018_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.20 g
Analysis Date:	11/07/2011 2034	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.033	U Q	0.012	0.17
Copper	0.0628	J	0.059	2.1
Lead	0.0156	J	0.015	0.083
Nickel	0.0352	J	0.021	0.29
Zinc	0.405	J	0.26	2.1

Lab Control Sample - Batch: 280-92642 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	LCS 280-92642/2-A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92642	Lab File ID:	019_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.14 g
Analysis Date:	11/07/2011 2037	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	17.5	16.9	96	82 - 110	Q
Copper	17.5	17.6	100	87 - 125	
Lead	17.5	17.9	102	81 - 125	
Nickel	17.5	17.6	100	90 - 113	
Zinc	17.5	17.6	100	85 - 119	

Post Digestion Spike - Batch: 280-92642 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	280-21902-1	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92642	Lab File ID:	022PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.17 g
Analysis Date:	11/07/2011 2046	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.027	J	138	131	95	75 - 125	Q
Copper	5.2		138	132	92	75 - 125	
Lead	11		138	137	91	75 - 125	
Nickel	7.4		138	140	96	75 - 125	
Zinc	34		138	161	92	75 - 125	

Client: UXB International, Inc. Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92642

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21902-1	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92642	Lab File ID:	023_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.08 g
Analysis Date:	11/07/2011 2048			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				
Leach Date:	N/A				

MSD Lab Sample ID:	280-21902-1	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92642	Lab File ID:	024_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.17 g
Analysis Date:	11/07/2011 2051			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	15	14	82 - 110	13	20	Q J	Q J
Copper	111	94	87 - 125	21	20		J
Lead	125	98	81 - 125	23	20		J
Nickel	123	97	90 - 113	26	20	J	J
Zinc	124	96	85 - 119	16	20	J	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92642

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21902-1	Units:	mg/Kg	MSD Lab Sample ID:	280-21902-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/07/2011 2048			Analysis Date:	11/07/2011 2051
Prep Date:	11/05/2011 0500			Prep Date:	11/05/2011 0500
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.027	J	29.9	27.6	4.51	Q J	3.94	Q J
Copper	5.2		29.9	27.6	38.5		31.3	J
Lead	11		29.9	27.6	48.4		38.3	J
Nickel	7.4		29.9	27.6	44.4	J	34.3	J
Zinc	34		29.9	27.6	71.5	J	61.1	

Client: UXB International, Inc. | Job Number: 280-21902-1

Serial Dilution - Batch: 280-92642

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21902-1	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92642	Lab File ID:	021SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.17 g
Analysis Date:	11/07/2011 2043	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.027	J	0.28	NC	10	U Q
Copper	5.2		5.39	3.0	10	J D
Lead	11		11.2	1.8	10	D
Nickel	7.4		7.70	3.7	10	D
Zinc	34		35.0	1.5	10	D

Client: UXB International, Inc. Job Number: 280-21902-1

Method Blank - Batch: 280-92643

Method: 6020A
Preparation: 3050B

Lab Sample ID:	MB 280-92643/1-A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92643	Lab File ID:	053_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.13 g
Analysis Date:	11/07/2011 2216	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.035	U Q	0.012	0.18
Copper	0.0784	J	0.063	2.2
Lead	0.044	U	0.016	0.088
Nickel	0.0250	J	0.022	0.31
Zinc	0.80	U	0.28	2.2

Lab Control Sample - Batch: 280-92643

Method: 6020A
Preparation: 3050B

Lab Sample ID:	LCS 280-92643/2-A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92643	Lab File ID:	054_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.13 g
Analysis Date:	11/07/2011 2219	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	17.7	17.3	98	82 - 110	Q
Copper	17.7	17.4	98	87 - 125	
Lead	17.7	17.5	99	81 - 125	
Nickel	17.7	17.6	99	90 - 113	
Zinc	17.7	17.3	98	85 - 119	

Post Digestion Spike - Batch: 280-92643

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21902-52	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92643	Lab File ID:	078PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.14 g
Analysis Date:	11/07/2011 2329	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.040	U	99.3	97.1	98	75 - 125	Q
Copper	1.3	J	99.3	93.6	93	75 - 125	
Lead	4.0		99.3	96.8	93	75 - 125	
Nickel	3.7		99.3	101	98	75 - 125	
Zinc	7.8		99.3	101	94	75 - 125	

Client: UXB International, Inc. Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92643

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21902-52	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92643	Lab File ID:	079_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	11/07/2011 2331			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				
Leach Date:	N/A				

MSD Lab Sample ID:	280-21902-52	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92643	Lab File ID:	080_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	11/07/2011 2334			Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	14	14	82 - 110	3	20	Q J	Q J
Copper	100	97	87 - 125	6	20		
Lead	101	100	81 - 125	4	20		
Nickel	101	99	90 - 113	4	20		
Zinc	103	97	85 - 119	6	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92643

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21902-52	Units:	mg/Kg	MSD Lab Sample ID:	280-21902-52
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/07/2011 2331			Analysis Date:	11/07/2011 2334
Prep Date:	11/05/2011 0500			Prep Date:	11/05/2011 0500
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.040	U	21.2	20.6	2.97	Q J	2.87	Q J
Copper	1.3	J	21.2	20.6	22.5		21.3	
Lead	4.0		21.2	20.6	25.4		24.5	
Nickel	3.7		21.2	20.6	25.0		24.0	
Zinc	7.8		21.2	20.6	29.5		27.8	

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21902-1

Serial Dilution - Batch: 280-92643

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21902-52	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92643	Lab File ID:	077SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.14 g
Analysis Date:	11/07/2011 2326	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/05/2011 0500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.040	U	0.20	NC	10	U Q
Copper	1.3	J	1.21	NC	10	J D
Lead	4.0		3.89	3.2	10	D
Nickel	3.7		3.66	0.43	10	D
Zinc	7.8		7.83	NC	10	J D

Client: UXB International, Inc. Job Number: 280-21902-1

Method Blank - Batch: 280-92644

Method: 6020A
Preparation: 3050B

Lab Sample ID:	MB 280-92644/1-A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92644	Lab File ID:	102_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.20 g
Analysis Date:	11/08/2011 0040	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.033	U Q	0.012	0.17
Copper	0.176	J	0.059	2.1
Lead	0.0374	J	0.015	0.083
Zinc	0.435	J	0.26	2.1

Method Blank - Batch: 280-92644

Method: 6020A
Preparation: 3050B

Lab Sample ID:	MB 280-92644/1-A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92644	Lab File ID:	018_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.20 g
Analysis Date:	11/08/2011 1944	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Nickel	0.136	J	0.021	0.29

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Control Sample - Batch: 280-92644 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	LCS 280-92644/2-A	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92644	Lab File ID:	103_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	11/08/2011 0043	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	18.3	18.2	99	82 - 110	Q
Copper	18.3	18.7	102	87 - 125	
Lead	18.3	19.2	104	81 - 125	
Zinc	18.3	18.6	101	85 - 119	

Lab Control Sample - Batch: 280-92644 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	LCS 280-92644/2-A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92644	Lab File ID:	019_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	11/08/2011 1947	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nickel	18.3	19.5	106	90 - 113	

Client: UXB International, Inc. Job Number: 280-21902-1

Post Digestion Spike - Batch: 280-92644

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21902-61	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92644	Lab File ID:	113PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	11/08/2011 0112	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.042	U	105	103	98	75 - 125	Q
Copper	1.1	J	105	103	96	75 - 125	
Lead	4.5		105	108	99	75 - 125	
Zinc	5.5		105	107	97	75 - 125	

Post Digestion Spike - Batch: 280-92644

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21902-61	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92644	Lab File ID:	029PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	11/08/2011 2016	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Nickel	2.4		105	113	105	75 - 125	

Client: UXB International, Inc. | Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92644

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21902-61	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92644	Lab File ID:	114_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 0115			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				
Leach Date:	N/A				

MSD Lab Sample ID:	280-21902-61	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92644	Lab File ID:	115_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 0117			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	17	16	82 - 110	5	20	Q J	Q J
Copper	98	99	87 - 125	2	20		
Lead	103	102	81 - 125	1	20		
Zinc	106	106	85 - 119	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92644

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21902-61	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92644	Lab File ID:	030_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 2019			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				
Leach Date:	N/A				

MSD Lab Sample ID:	280-21902-61	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92644	Lab File ID:	031_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 2022			Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nickel	107	108	90 - 113	1	20		

Client: UXB International, Inc. Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92644

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21902-61	Units: mg/Kg	MSD Lab Sample ID:	280-21902-61
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Analysis Date:	11/08/2011 0115		Analysis Date:	11/08/2011 0117
Prep Date:	11/06/2011 1000		Prep Date:	11/06/2011 1000
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.042	U	21.5	21.5	3.56	Q J	3.39	Q J
Copper	1.1	J	21.5	21.5	22.0		22.4	
Lead	4.5		21.5	21.5	26.6		26.4	
Zinc	5.5		21.5	21.5	28.2		28.3	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-92644

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21902-61	Units: mg/Kg	MSD Lab Sample ID:	280-21902-61
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Analysis Date:	11/08/2011 2019		Analysis Date:	11/08/2011 2022
Prep Date:	11/06/2011 1000		Prep Date:	11/06/2011 1000
Leach Date:	N/A		Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nickel	2.4	21.5	21.5	25.4	25.6

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21902-1

Serial Dilution - Batch: 280-92644 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	280-21902-61	Analysis Batch:	280-95284	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92644	Lab File ID:	109SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	11/08/2011 0100	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.042	U	0.21	NC	10	U Q
Copper	1.1	J	1.05	NC	10	J D
Lead	4.5		4.59	1.7	10	D
Zinc	5.5		5.42	NC	10	J D

Serial Dilution - Batch: 280-92644 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	280-21902-61	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-92644	Lab File ID:	025SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	11/08/2011 2004	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/06/2011 1000				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Nickel	2.4		2.35	1.9	10	D

Client: UXB International, Inc. Job Number: 280-21902-1

Method Blank - Batch: 280-95210

Method: 6020A
Preparation: 3050B

Lab Sample ID:	MB 280-95210/1-A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-95210	Lab File ID:	051_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.01 g
Analysis Date:	11/08/2011 2120	Units:	mg/Kg	Final Weight/Volume:	500 mL
Prep Date:	11/08/2011 0900				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.040	U Q	0.0070	0.20
Copper	0.20	U	0.036	2.5
Lead	0.050	U	0.0091	0.10
Nickel	0.0147	J	0.013	0.35
Zinc	0.90	U	0.16	2.5

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-95210

Method: 6020A
Preparation: 3050B

LCS Lab Sample ID:	LCS 280-95210/2-A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-95210	Lab File ID:	052_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.34 g
Analysis Date:	11/08/2011 2123	Units:	mg/Kg	Final Weight/Volume:	500 mL
Prep Date:	11/08/2011 0900				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-95210/3-A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-95210	Lab File ID:	053LCSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.08 g
Analysis Date:	11/08/2011 2126	Units:	mg/Kg	Final Weight/Volume:	500 mL
Prep Date:	11/08/2011 0900				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Antimony	95	95	82 - 110	3	20	Q	Q
Copper	98	97	87 - 125	2	20		
Lead	99	98	81 - 125	1	20		
Nickel	99	99	90 - 113	2	20		
Zinc	95	96	85 - 119	3	20		

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-95210

Method: 6020A
Preparation: 3050B

LCS Lab Sample ID:	LCS 280-95210/2-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 280-95210/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/08/2011 2123			Analysis Date:	11/08/2011 2126
Prep Date:	11/08/2011 0900			Prep Date:	11/08/2011 0900
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Antimony	9.67	9.92	9.15	Q	9.41	Q
Copper	9.67	9.92	9.45		9.63	
Lead	9.67	9.92	9.59		9.69	
Nickel	9.67	9.92	9.55		9.78	
Zinc	9.67	9.92	9.22		9.53	

Post Digestion Spike - Batch: 280-95210

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21902-53	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-95210	Lab File ID:	056PDS.D
Dilution:	1.0	Leach Batch:	280-92658	Initial Weight/Volume:	10.67 g
Analysis Date:	11/08/2011 2134	Units:	mg/Kg	Final Weight/Volume:	500 mL
Prep Date:	11/08/2011 0900				
Leach Date:	10/22/2011 1608				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.017	J	46.9	49.5	106	75 - 125	Q
Copper	2.1	J	46.9	49.6	101	75 - 125	
Lead	9.0		46.9	56.4	101	75 - 125	
Nickel	1.6		46.9	51.9	107	75 - 125	
Zinc	9.7		46.9	56.9	101	75 - 125	

Client: UXB International, Inc. Job Number: 280-21902-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-95210

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-21902-53	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-95210	Lab File ID:	057_MS.D
Dilution:	1.0	Leach Batch:	280-92658	Initial Weight/Volume:	10.37 g
Analysis Date:	11/08/2011 2137			Final Weight/Volume:	500 mL
Prep Date:	11/08/2011 0900				
Leach Date:	10/22/2011 1608				

MSD Lab Sample ID:	280-21902-53	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-95210	Lab File ID:	058_MSD.D
Dilution:	1.0	Leach Batch:	280-92658	Initial Weight/Volume:	10.29 g
Analysis Date:	11/08/2011 2140			Final Weight/Volume:	500 mL
Prep Date:	11/08/2011 0900				
Leach Date:	10/22/2011 1608				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	14	13	82 - 110	3	20	Q J	Q J
Copper	96	96	87 - 125	0	20		
Lead	93	93	81 - 125	0	20		
Nickel	98	97	90 - 113	0	20		
Zinc	96	93	85 - 119	1	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-95210

Method: 6020A
Preparation: 3050B

Units: mg/Kg

MS Lab Sample ID:	280-21902-53	MSD Lab Sample ID:	280-21902-53
Client Matrix:	Solid	Client Matrix:	Solid
Dilution:	1.0	Dilution:	1.0
Analysis Date:	11/08/2011 2137	Analysis Date:	11/08/2011 2140
Prep Date:	11/08/2011 0900	Prep Date:	11/08/2011 0900
Leach Date:	10/22/2011 1608	Leach Date:	10/22/2011 1608

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.017	J	9.64	9.72	1.33	Q J	1.29	Q J
Copper	2.1	J	9.64	9.72	11.3		11.4	
Lead	9.0		9.64	9.72	18.0		18.1	
Nickel	1.6		9.64	9.72	11.1		11.0	
Zinc	9.7		9.64	9.72	19.0		18.7	

Client: UXB International, Inc. Job Number: 280-21902-1

Serial Dilution - Batch: 280-95210

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-21902-53	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-95210	Lab File ID:	055SDIL.D
Dilution:	5.0	Leach Batch:	280-92658	Initial Weight/Volume:	10.67 g
Analysis Date:	11/08/2011 2132	Units:	mg/Kg	Final Weight/Volume:	500 mL
Prep Date:	11/08/2011 0900				
Leach Date:	10/22/2011 1608				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.017	J	0.19	NC	10	U Q
Copper	2.1	J	2.02	1.7	10	J D
Lead	9.0		8.88	1.9	10	D
Nickel	1.6		1.63	1.1	10	D
Zinc	9.7		9.63	0.59	10	J D

Client: UXB International, Inc. Job Number: 280-21902-1

Duplicate - Batch: 280-92752 **Method: Moisture**
Preparation: N/A

Lab Sample ID:	280-21902-44	Analysis Batch:	280-92752	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	10/24/2011 0924	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	13	12	5	20	
Percent Solids	87	88	0.8	20	

Duplicate - Batch: 280-92752 **Method: Moisture**
Preparation: N/A

Lab Sample ID:	280-21902-64	Analysis Batch:	280-92752	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	10/24/2011 0924	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	9.9	8.9	11	20	
Percent Solids	90	91	1	20	

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21902-1

Duplicate - Batch: 280-92905

Method: Moisture
Preparation: N/A

Lab Sample ID:	280-21902-17	Analysis Batch:	280-92905	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	10/25/2011 0737	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	21	20	7	20	
Percent Solids	79	80	2	20	

DATA REPORTING QUALIFIERS

Client: UXB International, Inc. Job Number: 280-21902-1

Lab Section	Qualifier	Description
Metals		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	Q	One or more quality control criteria failed.
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.
LCMS		
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	M	Manual integrated compound.
	Q	One or more quality control criteria failed.
	U	Undetected at the Limit of Detection.

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-92642					
LCS 280-92642/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-92642/1-A	Method Blank	T	Solid	3050B	
280-21902-1	TP05 SD018	T	Solid	3050B	
280-21902-1MS	Matrix Spike	T	Solid	3050B	
280-21902-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-21902-2	TP06 SD019	T	Solid	3050B	
280-21902-3	TP07 SD020	T	Solid	3050B	
280-21902-4	TP08 SD021	T	Solid	3050B	
280-21902-5	TP09 SD022	T	Solid	3050B	
280-21902-6	TP10 SD023	T	Solid	3050B	
280-21902-7	TP11 SD024	T	Solid	3050B	
280-21902-8	TP12 SD025	T	Solid	3050B	
280-21902-9	TP13 SD026	T	Solid	3050B	
280-21902-10	TP14 SD027	T	Solid	3050B	
280-21902-11	TP14 SD028	T	Solid	3050B	
280-21902-12	TP15 SD029	T	Solid	3050B	
280-21902-13	TP16 SD030	T	Solid	3050B	
280-21902-14	TP17 SD031	T	Solid	3050B	
280-21902-15	TP18 SD032	T	Solid	3050B	
280-21902-16	TP19 SD033	T	Solid	3050B	
280-21902-17	TP20 SD034	T	Solid	3050B	
280-21902-18	TP21 SD035	T	Solid	3050B	
280-21902-19	TP21 SD036	T	Solid	3050B	
280-21902-20	TP01 SB128	T	Solid	3050B	

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-92643					
LCS 280-92643/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-92643/1-A	Method Blank	T	Solid	3050B	
280-21902-21	TP01 SB129	T	Solid	3050B	
280-21902-22	TP01 SB130	T	Solid	3050B	
280-21902-23	TP01 SB131	T	Solid	3050B	
280-21902-35	CP27 SB052	T	Solid	3050B	
280-21902-36	CP27 SB053	T	Solid	3050B	
280-21902-37	CP22 SB040	T	Solid	3050B	
280-21902-38	CP22 SB041	T	Solid	3050B	
280-21902-39	CP25 SB048	T	Solid	3050B	
280-21902-40	CP25 SB049	T	Solid	3050B	
280-21902-41	CP24 SB046	T	Solid	3050B	
280-21902-42	CP24 SB047	T	Solid	3050B	
280-21902-43	CP26 SB050	T	Solid	3050B	
280-21902-44	CP26 SB051	T	Solid	3050B	
280-21902-45	CP21 SB038	T	Solid	3050B	
280-21902-46	CP21 SB039	T	Solid	3050B	
280-21902-47	CP20 SB037	T	Solid	3050B	
280-21902-48	CP20 SB036	T	Solid	3050B	
280-21902-52	CP23 SB043	T	Solid	3050B	
280-21902-52MS	Matrix Spike	T	Solid	3050B	
280-21902-52MSD	Matrix Spike Duplicate	T	Solid	3050B	

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-92644					
LCS 280-92644/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-92644/1-A	Method Blank	T	Solid	3050B	
280-21902-50	CP23 SB042	T	Solid	3050B	
280-21902-51	CP23 SB044	T	Solid	3050B	
280-21902-59	CP13 SB019	T	Solid	3050B	
280-21902-60	CP13 SB021	T	Solid	3050B	
280-21902-61	CP13 SB020	T	Solid	3050B	
280-21902-61MS	Matrix Spike	T	Solid	3050B	
280-21902-61MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-21902-63	CP14 SB023	T	Solid	3050B	
280-21902-64	CP14 SB024	T	Solid	3050B	
280-21902-65	CP18 SB031	T	Solid	3050B	
280-21902-66	CP18 SB032	T	Solid	3050B	
280-21902-67	CP18 SB033	T	Solid	3050B	
280-21902-68	CP15 SB025	T	Solid	3050B	
280-21902-69	CP15 SB026	T	Solid	3050B	
280-21902-70	CP16 SB027	T	Solid	3050B	
280-21902-71	CP16 SB028	T	Solid	3050B	
280-21902-72	CP19 SB034	T	Solid	3050B	
280-21902-73	CP19 SB035	T	Solid	3050B	
280-21902-74	CP17 SB029	T	Solid	3050B	
280-21902-75	CP17 SB030	T	Solid	3050B	
Prep Batch: 280-92658					
280-21902-53	CP03 IS009	T	Solid	Increm, Prep	
280-21902-53MS	Matrix Spike	T	Solid	Increm, Prep	
280-21902-53MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
280-21902-54	CP03 IS008	T	Solid	Increm, Prep	
280-21902-55	CP03 IS007	T	Solid	Increm, Prep	
280-21902-56	CP02 IS004	T	Solid	Increm, Prep	
280-21902-57	CP02 IS005	T	Solid	Increm, Prep	
280-21902-58	CP02 IS006	T	Solid	Increm, Prep	
Prep Batch: 280-95210					
LCS 280-95210/2-A	Lab Control Sample	T	Solid	3050B	
LCSD 280-95210/3-A	Lab Control Sample Duplicate	T	Solid	3050B	
MB 280-95210/1-A	Method Blank	T	Solid	3050B	
280-21902-53	CP03 IS009	T	Solid	3050B	280-92658
280-21902-53MS	Matrix Spike	T	Solid	3050B	280-92658
280-21902-53MSD	Matrix Spike Duplicate	T	Solid	3050B	280-92658
280-21902-54	CP03 IS008	T	Solid	3050B	280-92658
280-21902-55	CP03 IS007	T	Solid	3050B	280-92658
280-21902-56	CP02 IS004	T	Solid	3050B	280-92658
280-21902-57	CP02 IS005	T	Solid	3050B	280-92658
280-21902-58	CP02 IS006	T	Solid	3050B	280-92658

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-95284					
LCS 280-92642/2-A	Lab Control Sample	T	Solid	6020A	280-92642
MB 280-92642/1-A	Method Blank	T	Solid	6020A	280-92642
LCS 280-92643/2-A	Lab Control Sample	T	Solid	6020A	280-92643
MB 280-92643/1-A	Method Blank	T	Solid	6020A	280-92643
LCS 280-92644/2-A	Lab Control Sample	T	Solid	6020A	280-92644
MB 280-92644/1-A	Method Blank	T	Solid	6020A	280-92644
280-21902-1	TP05 SD018	T	Solid	6020A	280-92642
280-21902-1MS	Matrix Spike	T	Solid	6020A	280-92642
280-21902-1MSD	Matrix Spike Duplicate	T	Solid	6020A	280-92642
280-21902-2	TP06 SD019	T	Solid	6020A	280-92642
280-21902-3	TP07 SD020	T	Solid	6020A	280-92642
280-21902-4	TP08 SD021	T	Solid	6020A	280-92642
280-21902-5	TP09 SD022	T	Solid	6020A	280-92642
280-21902-6	TP10 SD023	T	Solid	6020A	280-92642
280-21902-7	TP11 SD024	T	Solid	6020A	280-92642
280-21902-8	TP12 SD025	T	Solid	6020A	280-92642
280-21902-9	TP13 SD026	T	Solid	6020A	280-92642
280-21902-10	TP14 SD027	T	Solid	6020A	280-92642
280-21902-11	TP14 SD028	T	Solid	6020A	280-92642
280-21902-12	TP15 SD029	T	Solid	6020A	280-92642
280-21902-13	TP16 SD030	T	Solid	6020A	280-92642
280-21902-14	TP17 SD031	T	Solid	6020A	280-92642
280-21902-15	TP18 SD032	T	Solid	6020A	280-92642
280-21902-16	TP19 SD033	T	Solid	6020A	280-92642
280-21902-17	TP20 SD034	T	Solid	6020A	280-92642
280-21902-18	TP21 SD035	T	Solid	6020A	280-92642
280-21902-19	TP21 SD036	T	Solid	6020A	280-92642
280-21902-20	TP01 SB128	T	Solid	6020A	280-92642
280-21902-21	TP01 SB129	T	Solid	6020A	280-92643
280-21902-22	TP01 SB130	T	Solid	6020A	280-92643
280-21902-23	TP01 SB131	T	Solid	6020A	280-92643
280-21902-35	CP27 SB052	T	Solid	6020A	280-92643
280-21902-36	CP27 SB053	T	Solid	6020A	280-92643
280-21902-37	CP22 SB040	T	Solid	6020A	280-92643
280-21902-38	CP22 SB041	T	Solid	6020A	280-92643
280-21902-39	CP25 SB048	T	Solid	6020A	280-92643
280-21902-40	CP25 SB049	T	Solid	6020A	280-92643
280-21902-41	CP24 SB046	T	Solid	6020A	280-92643
280-21902-42	CP24 SB047	T	Solid	6020A	280-92643
280-21902-43	CP26 SB050	T	Solid	6020A	280-92643
280-21902-44	CP26 SB051	T	Solid	6020A	280-92643
280-21902-45	CP21 SB038	T	Solid	6020A	280-92643
280-21902-46	CP21 SB039	T	Solid	6020A	280-92643
280-21902-47	CP20 SB037	T	Solid	6020A	280-92643
280-21902-48	CP20 SB036	T	Solid	6020A	280-92643
280-21902-50	CP23 SB042	T	Solid	6020A	280-92644

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-95284					
280-21902-51	CP23 SB044	T	Solid	6020A	280-92644
280-21902-52	CP23 SB043	T	Solid	6020A	280-92643
280-21902-52MS	Matrix Spike	T	Solid	6020A	280-92643
280-21902-52MSD	Matrix Spike Duplicate	T	Solid	6020A	280-92643
280-21902-59	CP13 SB019	T	Solid	6020A	280-92644
280-21902-60	CP13 SB021	T	Solid	6020A	280-92644
280-21902-61	CP13 SB020	T	Solid	6020A	280-92644
280-21902-61MS	Matrix Spike	T	Solid	6020A	280-92644
280-21902-61MSD	Matrix Spike Duplicate	T	Solid	6020A	280-92644
280-21902-63	CP14 SB023	T	Solid	6020A	280-92644
280-21902-64	CP14 SB024	T	Solid	6020A	280-92644
280-21902-65	CP18 SB031	T	Solid	6020A	280-92644
280-21902-66	CP18 SB032	T	Solid	6020A	280-92644
280-21902-67	CP18 SB033	T	Solid	6020A	280-92644
280-21902-68	CP15 SB025	T	Solid	6020A	280-92644
280-21902-69	CP15 SB026	T	Solid	6020A	280-92644
280-21902-70	CP16 SB027	T	Solid	6020A	280-92644
280-21902-71	CP16 SB028	T	Solid	6020A	280-92644
280-21902-72	CP19 SB034	T	Solid	6020A	280-92644
280-21902-73	CP19 SB035	T	Solid	6020A	280-92644
280-21902-74	CP17 SB029	T	Solid	6020A	280-92644
280-21902-75	CP17 SB030	T	Solid	6020A	280-92644

Quality Control Results

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-95436					
LCS 280-92644/2-A	Lab Control Sample	T	Solid	6020A	280-92644
MB 280-92644/1-A	Method Blank	T	Solid	6020A	280-92644
LCS 280-95210/2-A	Lab Control Sample	T	Solid	6020A	280-95210
LCSD 280-95210/3-A	Lab Control Sample Duplicate	T	Solid	6020A	280-95210
MB 280-95210/1-A	Method Blank	T	Solid	6020A	280-95210
280-21902-50	CP23 SB042	T	Solid	6020A	280-92644
280-21902-51	CP23 SB044	T	Solid	6020A	280-92644
280-21902-53	CP03 IS009	T	Solid	6020A	280-95210
280-21902-53MS	Matrix Spike	T	Solid	6020A	280-95210
280-21902-53MSD	Matrix Spike Duplicate	T	Solid	6020A	280-95210
280-21902-54	CP03 IS008	T	Solid	6020A	280-95210
280-21902-55	CP03 IS007	T	Solid	6020A	280-95210
280-21902-56	CP02 IS004	T	Solid	6020A	280-95210
280-21902-57	CP02 IS005	T	Solid	6020A	280-95210
280-21902-58	CP02 IS006	T	Solid	6020A	280-95210
280-21902-59	CP13 SB019	T	Solid	6020A	280-92644
280-21902-60	CP13 SB021	T	Solid	6020A	280-92644
280-21902-61	CP13 SB020	T	Solid	6020A	280-92644
280-21902-61MS	Matrix Spike	T	Solid	6020A	280-92644
280-21902-61MSD	Matrix Spike Duplicate	T	Solid	6020A	280-92644
280-21902-63	CP14 SB023	T	Solid	6020A	280-92644
280-21902-64	CP14 SB024	T	Solid	6020A	280-92644
280-21902-65	CP18 SB031	T	Solid	6020A	280-92644
280-21902-66	CP18 SB032	T	Solid	6020A	280-92644
280-21902-67	CP18 SB033	T	Solid	6020A	280-92644
280-21902-68	CP15 SB025	T	Solid	6020A	280-92644
280-21902-69	CP15 SB026	T	Solid	6020A	280-92644
280-21902-70	CP16 SB027	T	Solid	6020A	280-92644
280-21902-71	CP16 SB028	T	Solid	6020A	280-92644
280-21902-72	CP19 SB034	T	Solid	6020A	280-92644
280-21902-73	CP19 SB035	T	Solid	6020A	280-92644
280-21902-74	CP17 SB029	T	Solid	6020A	280-92644
280-21902-75	CP17 SB030	T	Solid	6020A	280-92644

Report Basis
T = Total

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-92116					
GB 280-92116/1-B	Grinding Blank	T	Solid	8330	
LCSSRM 280-92116/2-B	LCS-Certified Reference Material	T	Solid	8330	
280-21902-53	CP03 IS009	T	Solid	8330	
280-21902-54	CP03 IS008	T	Solid	8330	
280-21902-55	CP03 IS007	T	Solid	8330	
280-21902-56	CP02 IS004	T	Solid	8330	
280-21902-57	CP02 IS005	T	Solid	8330	
280-21902-58	CP02 IS006	T	Solid	8330	
280-21902-58MS	Matrix Spike	T	Solid	8330	
280-21902-58MSD	Matrix Spike Duplicate	T	Solid	8330	
Prep Batch: 280-92660					
280-21902-1	TP05 SD018	T	Solid	Increm, Prep	
280-21902-2	TP06 SD019	T	Solid	Increm, Prep	
280-21902-3	TP07 SD020	T	Solid	Increm, Prep	
280-21902-4	TP08 SD021	T	Solid	Increm, Prep	
280-21902-5	TP09 SD022	T	Solid	Increm, Prep	
280-21902-6	TP10 SD023	T	Solid	Increm, Prep	
280-21902-7	TP11 SD024	T	Solid	Increm, Prep	
280-21902-7MS	Matrix Spike	T	Solid	Increm, Prep	
280-21902-7MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
280-21902-8	TP12 SD025	T	Solid	Increm, Prep	
280-21902-9	TP13 SD026	T	Solid	Increm, Prep	
280-21902-10	TP14 SD027	T	Solid	Increm, Prep	
280-21902-11	TP14 SD028	T	Solid	Increm, Prep	
280-21902-12	TP15 SD029	T	Solid	Increm, Prep	
280-21902-13	TP16 SD030	T	Solid	Increm, Prep	
280-21902-14	TP17 SD031	T	Solid	Increm, Prep	
280-21902-15	TP18 SD032	T	Solid	Increm, Prep	
280-21902-16	TP19 SD033	T	Solid	Increm, Prep	
280-21902-17	TP20 SD034	T	Solid	Increm, Prep	
280-21902-18	TP21 SD035	T	Solid	Increm, Prep	
280-21902-19	TP21 SD036	T	Solid	Increm, Prep	
280-21902-20	TP01 SB128	T	Solid	Increm, Prep	

Client: UXB International, Inc.　　Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-92661					
280-21902-21	TP01 SB129	T	Solid	Increm, Prep	
280-21902-22	TP01 SB130	T	Solid	Increm, Prep	
280-21902-22MS	Matrix Spike	T	Solid	Increm, Prep	
280-21902-22MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
280-21902-23	TP01 SB131	T	Solid	Increm, Prep	
280-21902-35	CP27 SB052	T	Solid	Increm, Prep	
280-21902-36	CP27 SB053	T	Solid	Increm, Prep	
280-21902-37	CP22 SB040	T	Solid	Increm, Prep	
280-21902-38	CP22 SB041	T	Solid	Increm, Prep	
280-21902-39	CP25 SB048	T	Solid	Increm, Prep	
280-21902-40	CP25 SB049	T	Solid	Increm, Prep	
280-21902-41	CP24 SB046	T	Solid	Increm, Prep	
280-21902-42	CP24 SB047	T	Solid	Increm, Prep	
280-21902-43	CP26 SB050	T	Solid	Increm, Prep	
280-21902-44	CP26 SB051	T	Solid	Increm, Prep	
280-21902-45	CP21 SB038	T	Solid	Increm, Prep	
280-21902-46	CP21 SB039	T	Solid	Increm, Prep	
280-21902-47	CP20 SB037	T	Solid	Increm, Prep	
280-21902-48	CP20 SB036	T	Solid	Increm, Prep	
280-21902-50	CP23 SB042	T	Solid	Increm, Prep	
280-21902-51	CP23 SB044	T	Solid	Increm, Prep	
Prep Batch: 280-92662					
280-21902-52	CP23 SB043	T	Solid	Increm, Prep	
280-21902-52MS	Matrix Spike	T	Solid	Increm, Prep	
280-21902-52MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
280-21902-59	CP13 SB019	T	Solid	Increm, Prep	
280-21902-60	CP13 SB021	T	Solid	Increm, Prep	
280-21902-61	CP13 SB020	T	Solid	Increm, Prep	
280-21902-61MS	Matrix Spike	T	Solid	Increm, Prep	
280-21902-61MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
280-21902-63	CP14 SB023	T	Solid	Increm, Prep	
280-21902-64	CP14 SB024	T	Solid	Increm, Prep	
280-21902-65	CP18 SB031	T	Solid	Increm, Prep	
280-21902-66	CP18 SB032	T	Solid	Increm, Prep	
280-21902-67	CP18 SB033	T	Solid	Increm, Prep	
280-21902-68	CP15 SB025	T	Solid	Increm, Prep	
280-21902-69	CP15 SB026	T	Solid	Increm, Prep	
280-21902-70	CP16 SB027	T	Solid	Increm, Prep	
280-21902-71	CP16 SB028	T	Solid	Increm, Prep	
280-21902-72	CP19 SB034	T	Solid	Increm, Prep	
280-21902-73	CP19 SB035	T	Solid	Increm, Prep	
280-21902-74	CP17 SB029	T	Solid	Increm, Prep	
280-21902-75	CP17 SB030	T	Solid	Increm, Prep	

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-92995					
LCS 280-92995/2-A	Lab Control Sample	T	Solid	8330B	
MB 280-92995/1-A	Method Blank	T	Solid	8330B	
280-21902-21	TP01 SB129	T	Solid	8330B	280-92661
280-21902-22	TP01 SB130	T	Solid	8330B	280-92661
280-21902-22MS	Matrix Spike	T	Solid	8330B	280-92661
280-21902-22MSD	Matrix Spike Duplicate	T	Solid	8330B	280-92661
280-21902-23	TP01 SB131	T	Solid	8330B	280-92661
280-21902-35	CP27 SB052	T	Solid	8330B	280-92661
280-21902-36	CP27 SB053	T	Solid	8330B	280-92661
280-21902-37	CP22 SB040	T	Solid	8330B	280-92661
280-21902-38	CP22 SB041	T	Solid	8330B	280-92661
280-21902-39	CP25 SB048	T	Solid	8330B	280-92661
280-21902-40	CP25 SB049	T	Solid	8330B	280-92661
280-21902-41	CP24 SB046	T	Solid	8330B	280-92661
280-21902-42	CP24 SB047	T	Solid	8330B	280-92661
280-21902-43	CP26 SB050	T	Solid	8330B	280-92661
280-21902-44	CP26 SB051	T	Solid	8330B	280-92661
280-21902-45	CP21 SB038	T	Solid	8330B	280-92661
280-21902-46	CP21 SB039	T	Solid	8330B	280-92661
280-21902-47	CP20 SB037	T	Solid	8330B	280-92661
280-21902-48	CP20 SB036	T	Solid	8330B	280-92661
280-21902-50	CP23 SB042	T	Solid	8330B	280-92661
280-21902-51	CP23 SB044	T	Solid	8330B	280-92661

Client: UXB International, Inc.

Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-93019					
LCS 280-93019/2-A	Lab Control Sample	T	Solid	8330B	
MB 280-93019/1-A	Method Blank	T	Solid	8330B	
280-21902-52	CP23 SB043	T	Solid	8330B	280-92662
280-21902-52MS	Matrix Spike	T	Solid	8330B	280-92662
280-21902-52MSD	Matrix Spike Duplicate	T	Solid	8330B	280-92662
280-21902-59	CP13 SB019	T	Solid	8330B	280-92662
280-21902-60	CP13 SB021	T	Solid	8330B	280-92662
280-21902-61	CP13 SB020	T	Solid	8330B	280-92662
280-21902-61MS	Matrix Spike	T	Solid	8330B	280-92662
280-21902-61MSD	Matrix Spike Duplicate	T	Solid	8330B	280-92662
280-21902-63	CP14 SB023	T	Solid	8330B	280-92662
280-21902-64	CP14 SB024	T	Solid	8330B	280-92662
280-21902-65	CP18 SB031	T	Solid	8330B	280-92662
280-21902-66	CP18 SB032	T	Solid	8330B	280-92662
280-21902-67	CP18 SB033	T	Solid	8330B	280-92662
280-21902-68	CP15 SB025	T	Solid	8330B	280-92662
280-21902-69	CP15 SB026	T	Solid	8330B	280-92662
280-21902-70	CP16 SB027	T	Solid	8330B	280-92662
280-21902-71	CP16 SB028	T	Solid	8330B	280-92662
280-21902-72	CP19 SB034	T	Solid	8330B	280-92662
280-21902-73	CP19 SB035	T	Solid	8330B	280-92662
280-21902-74	CP17 SB029	T	Solid	8330B	280-92662
280-21902-75	CP17 SB030	T	Solid	8330B	280-92662

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-93507					
LCS 280-93507/2-A	Lab Control Sample	T	Solid	8330B	
MB 280-93507/1-A	Method Blank	T	Solid	8330B	
280-21902-1	TP05 SD018	T	Solid	8330B	280-92660
280-21902-2	TP06 SD019	T	Solid	8330B	280-92660
280-21902-3	TP07 SD020	T	Solid	8330B	280-92660
280-21902-4	TP08 SD021	T	Solid	8330B	280-92660
280-21902-5	TP09 SD022	T	Solid	8330B	280-92660
280-21902-6	TP10 SD023	T	Solid	8330B	280-92660
280-21902-7	TP11 SD024	T	Solid	8330B	280-92660
280-21902-7MS	Matrix Spike	T	Solid	8330B	280-92660
280-21902-7MSD	Matrix Spike Duplicate	T	Solid	8330B	280-92660
280-21902-8	TP12 SD025	T	Solid	8330B	280-92660
280-21902-9	TP13 SD026	T	Solid	8330B	280-92660
280-21902-10	TP14 SD027	T	Solid	8330B	280-92660
280-21902-11	TP14 SD028	T	Solid	8330B	280-92660
280-21902-12	TP15 SD029	T	Solid	8330B	280-92660
280-21902-13	TP16 SD030	T	Solid	8330B	280-92660
280-21902-14	TP17 SD031	T	Solid	8330B	280-92660
280-21902-15	TP18 SD032	T	Solid	8330B	280-92660
280-21902-16	TP19 SD033	T	Solid	8330B	280-92660
280-21902-17	TP20 SD034	T	Solid	8330B	280-92660
280-21902-18	TP21 SD035	T	Solid	8330B	280-92660
280-21902-19	TP21 SD036	T	Solid	8330B	280-92660
280-21902-20	TP01 SB128	T	Solid	8330B	280-92660
Prep Batch: 280-93548					
LCS 280-93548/2-A	Lab Control Sample	T	Solid	8330B	
MB 280-93548/1-A	Method Blank	T	Solid	8330B	
GB 280-92116/1-B	Grinding Blank	T	Solid	8330B	280-92116
LCSSRM 280-92116/2-B	LCS-Certified Reference Material	T	Solid	8330B	280-92116
280-21902-53	CP03 IS009	T	Solid	8330B	280-92116
280-21902-54	CP03 IS008	T	Solid	8330B	280-92116
280-21902-55	CP03 IS007	T	Solid	8330B	280-92116
280-21902-56	CP02 IS004	T	Solid	8330B	280-92116
280-21902-57	CP02 IS005	T	Solid	8330B	280-92116
280-21902-58	CP02 IS006	T	Solid	8330B	280-92116
280-21902-58MS	Matrix Spike	T	Solid	8330B	280-92116
280-21902-58MSD	Matrix Spike Duplicate	T	Solid	8330B	280-92116

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Analysis Batch:280-94252					
GB 280-92116/1-B	Grinding Blank	T	Solid	8321B	280-93548
LCS 280-93548/2-A	Lab Control Sample	T	Solid	8321B	280-93548
LCSSRM 280-92116/2-B	LCS-Certified Reference Material	T	Solid	8321B	280-93548
MB 280-93548/1-A	Method Blank	T	Solid	8321B	280-93548
280-21902-53	CP03 IS009	T	Solid	8321B	280-93548
280-21902-54	CP03 IS008	T	Solid	8321B	280-93548
280-21902-55	CP03 IS007	T	Solid	8321B	280-93548
280-21902-56	CP02 IS004	T	Solid	8321B	280-93548
280-21902-57	CP02 IS005	T	Solid	8321B	280-93548
280-21902-58	CP02 IS006	T	Solid	8321B	280-93548
280-21902-58MS	Matrix Spike	T	Solid	8321B	280-93548
280-21902-58MSD	Matrix Spike Duplicate	T	Solid	8321B	280-93548
Analysis Batch:280-94610					
LCS 280-92995/2-A	Lab Control Sample	T	Solid	8321B	280-92995
MB 280-92995/1-A	Method Blank	T	Solid	8321B	280-92995
280-21902-21	TP01 SB129	T	Solid	8321B	280-92995
280-21902-22	TP01 SB130	T	Solid	8321B	280-92995
280-21902-22MS	Matrix Spike	T	Solid	8321B	280-92995
280-21902-22MSD	Matrix Spike Duplicate	T	Solid	8321B	280-92995
280-21902-23	TP01 SB131	T	Solid	8321B	280-92995
280-21902-35	CP27 SB052	T	Solid	8321B	280-92995
280-21902-36	CP27 SB053	T	Solid	8321B	280-92995
280-21902-37	CP22 SB040	T	Solid	8321B	280-92995
280-21902-38	CP22 SB041	T	Solid	8321B	280-92995
280-21902-39	CP25 SB048	T	Solid	8321B	280-92995
280-21902-40	CP25 SB049	T	Solid	8321B	280-92995
280-21902-41	CP24 SB046	T	Solid	8321B	280-92995
280-21902-42	CP24 SB047	T	Solid	8321B	280-92995
280-21902-43	CP26 SB050	T	Solid	8321B	280-92995
280-21902-44	CP26 SB051	T	Solid	8321B	280-92995
280-21902-45	CP21 SB038	T	Solid	8321B	280-92995
280-21902-46	CP21 SB039	T	Solid	8321B	280-92995
280-21902-47	CP20 SB037	T	Solid	8321B	280-92995
280-21902-48	CP20 SB036	T	Solid	8321B	280-92995
280-21902-50	CP23 SB042	T	Solid	8321B	280-92995
280-21902-51	CP23 SB044	T	Solid	8321B	280-92995

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Analysis Batch:280-94611					
MB 280-93019/1-A	Method Blank	T	Solid	8321B	280-93019
280-21902-52	CP23 SB043	T	Solid	8321B	280-93019
280-21902-52MS	Matrix Spike	T	Solid	8321B	280-93019
280-21902-52MSD	Matrix Spike Duplicate	T	Solid	8321B	280-93019
280-21902-59	CP13 SB019	T	Solid	8321B	280-93019
280-21902-60	CP13 SB021	T	Solid	8321B	280-93019
280-21902-61	CP13 SB020	T	Solid	8321B	280-93019
280-21902-61MS	Matrix Spike	T	Solid	8321B	280-93019
280-21902-61MSD	Matrix Spike Duplicate	T	Solid	8321B	280-93019
280-21902-63	CP14 SB023	T	Solid	8321B	280-93019
280-21902-64	CP14 SB024	T	Solid	8321B	280-93019
280-21902-65	CP18 SB031	T	Solid	8321B	280-93019
280-21902-66	CP18 SB032	T	Solid	8321B	280-93019
280-21902-67	CP18 SB033	T	Solid	8321B	280-93019
280-21902-68	CP15 SB025	T	Solid	8321B	280-93019
280-21902-69	CP15 SB026	T	Solid	8321B	280-93019
280-21902-70	CP16 SB027	T	Solid	8321B	280-93019
280-21902-71	CP16 SB028	T	Solid	8321B	280-93019
280-21902-72	CP19 SB034	T	Solid	8321B	280-93019
280-21902-73	CP19 SB035	T	Solid	8321B	280-93019
280-21902-74	CP17 SB029	T	Solid	8321B	280-93019
280-21902-75	CP17 SB030	T	Solid	8321B	280-93019
Analysis Batch:280-94612					
MB 280-93507/1-A	Method Blank	T	Solid	8321B	280-93507
280-21902-1	TP05 SD018	T	Solid	8321B	280-93507
280-21902-2	TP06 SD019	T	Solid	8321B	280-93507
280-21902-3	TP07 SD020	T	Solid	8321B	280-93507
280-21902-4	TP08 SD021	T	Solid	8321B	280-93507
280-21902-5	TP09 SD022	T	Solid	8321B	280-93507
280-21902-6	TP10 SD023	T	Solid	8321B	280-93507
280-21902-8	TP12 SD025	T	Solid	8321B	280-93507
280-21902-9	TP13 SD026	T	Solid	8321B	280-93507
280-21902-10	TP14 SD027	T	Solid	8321B	280-93507
280-21902-11	TP14 SD028	T	Solid	8321B	280-93507
280-21902-12	TP15 SD029	T	Solid	8321B	280-93507
280-21902-13	TP16 SD030	T	Solid	8321B	280-93507
280-21902-14	TP17 SD031	T	Solid	8321B	280-93507
280-21902-15	TP18 SD032	T	Solid	8321B	280-93507
280-21902-16	TP19 SD033	T	Solid	8321B	280-93507
280-21902-17	TP20 SD034	T	Solid	8321B	280-93507
280-21902-18	TP21 SD035	T	Solid	8321B	280-93507
280-21902-19	TP21 SD036	T	Solid	8321B	280-93507
280-21902-20	TP01 SB128	T	Solid	8321B	280-93507

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Analysis Batch:280-94725					
LCS 280-93019/2-A	Lab Control Sample	T	Solid	8321B	280-93019
LCS 280-93507/2-A	Lab Control Sample	T	Solid	8321B	280-93507
280-21902-7	TP11 SD024	T	Solid	8321B	280-93507
280-21902-7MS	Matrix Spike	T	Solid	8321B	280-93507
280-21902-7MSD	Matrix Spike Duplicate	T	Solid	8321B	280-93507

Report Basis

T = Total

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-92752					
280-21902-19	TP21 SD036	T	Solid	Moisture	
280-21902-21	TP01 SB129	T	Solid	Moisture	
280-21902-22	TP01 SB130	T	Solid	Moisture	
280-21902-23	TP01 SB131	T	Solid	Moisture	
280-21902-35	CP27 SB052	T	Solid	Moisture	
280-21902-36	CP27 SB053	T	Solid	Moisture	
280-21902-37	CP22 SB040	T	Solid	Moisture	
280-21902-38	CP22 SB041	T	Solid	Moisture	
280-21902-39	CP25 SB048	T	Solid	Moisture	
280-21902-40	CP25 SB049	T	Solid	Moisture	
280-21902-41	CP24 SB046	T	Solid	Moisture	
280-21902-42	CP24 SB047	T	Solid	Moisture	
280-21902-43	CP26 SB050	T	Solid	Moisture	
280-21902-44	CP26 SB051	T	Solid	Moisture	
280-21902-44DU	Duplicate	T	Solid	Moisture	
280-21902-45	CP21 SB038	T	Solid	Moisture	
280-21902-46	CP21 SB039	T	Solid	Moisture	
280-21902-47	CP20 SB037	T	Solid	Moisture	
280-21902-48	CP20 SB036	T	Solid	Moisture	
280-21902-50	CP23 SB042	T	Solid	Moisture	
280-21902-51	CP23 SB044	T	Solid	Moisture	
280-21902-52	CP23 SB043	T	Solid	Moisture	
280-21902-59	CP13 SB019	T	Solid	Moisture	
280-21902-60	CP13 SB021	T	Solid	Moisture	
280-21902-61	CP13 SB020	T	Solid	Moisture	
280-21902-63	CP14 SB023	T	Solid	Moisture	
280-21902-64	CP14 SB024	T	Solid	Moisture	
280-21902-64DU	Duplicate	T	Solid	Moisture	
280-21902-65	CP18 SB031	T	Solid	Moisture	
280-21902-66	CP18 SB032	T	Solid	Moisture	
280-21902-67	CP18 SB033	T	Solid	Moisture	
280-21902-68	CP15 SB025	T	Solid	Moisture	
280-21902-69	CP15 SB026	T	Solid	Moisture	
280-21902-70	CP16 SB027	T	Solid	Moisture	
280-21902-71	CP16 SB028	T	Solid	Moisture	
280-21902-72	CP19 SB034	T	Solid	Moisture	
280-21902-73	CP19 SB035	T	Solid	Moisture	
280-21902-74	CP17 SB029	T	Solid	Moisture	
280-21902-75	CP17 SB030	T	Solid	Moisture	

Client: UXB International, Inc. Job Number: 280-21902-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-92905					
280-21902-1	TP05 SD018	T	Solid	Moisture	
280-21902-2	TP06 SD019	T	Solid	Moisture	
280-21902-3	TP07 SD020	T	Solid	Moisture	
280-21902-4	TP08 SD021	T	Solid	Moisture	
280-21902-5	TP09 SD022	T	Solid	Moisture	
280-21902-6	TP10 SD023	T	Solid	Moisture	
280-21902-7	TP11 SD024	T	Solid	Moisture	
280-21902-8	TP12 SD025	T	Solid	Moisture	
280-21902-9	TP13 SD026	T	Solid	Moisture	
280-21902-10	TP14 SD027	T	Solid	Moisture	
280-21902-11	TP14 SD028	T	Solid	Moisture	
280-21902-12	TP15 SD029	T	Solid	Moisture	
280-21902-13	TP16 SD030	T	Solid	Moisture	
280-21902-14	TP17 SD031	T	Solid	Moisture	
280-21902-15	TP18 SD032	T	Solid	Moisture	
280-21902-16	TP19 SD033	T	Solid	Moisture	
280-21902-17	TP20 SD034	T	Solid	Moisture	
280-21902-17DU	Duplicate	T	Solid	Moisture	
280-21902-18	TP21 SD035	T	Solid	Moisture	
280-21902-20	TP01 SB128	T	Solid	Moisture	

Report Basis
T = Total

Client: UXB International, Inc.   Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: **280-21902-1**   **Client ID:** **TP05 SD018**

Sample Date/Time: 10/19/2011 11:10   Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-1-E		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-A-1-E		280-94612	280-93507	11/04/2011 01:14	1	TAL DEN	AGCM
P:3050B	280-21902-A-1-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-1-A		280-95284	280-92642	11/07/2011 20:40	1	TAL DEN	TEL
A:Moisture	280-21902-B-1		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: **280-21902-1 MS**   **Client ID:** **TP05 SD018**

Sample Date/Time: 10/19/2011 11:10   Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21902-A-1-B MS		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-1-B MS		280-95284	280-92642	11/07/2011 20:48	1	TAL DEN	TEL

Lab ID: **280-21902-1 MSD**   **Client ID:** **TP05 SD018**

Sample Date/Time: 10/19/2011 11:10   Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21902-A-1-C MSD		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-1-C MSD		280-95284	280-92642	11/07/2011 20:51	1	TAL DEN	TEL

Lab ID: **280-21902-1 SD**   **Client ID:** **TP05 SD018**

Sample Date/Time: 10/19/2011 11:10   Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21902-A-1-A SD ^5		280-95284	280-92642	11/05/2011 05:00	5	TAL DEN	CLI
A:6020A	280-21902-A-1-A SD ^5		280-95284	280-92642	11/07/2011 20:43	5	TAL DEN	TEL
P:3050B	280-21902-A-1-A PDS		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-1-A PDS		280-95284	280-92642	11/07/2011 20:46	1	TAL DEN	TEL

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: **280-21902-2** **Client ID:** **TP06 SD019**

Sample Date/Time: 10/19/2011 11:15 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-2-C		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-A-2-C		280-94612	280-93507	11/04/2011 01:27	1	TAL DEN	AGCM
P:3050B	280-21902-A-2-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-2-A		280-95284	280-92642	11/07/2011 20:54	1	TAL DEN	TEL
A:Moisture	280-21902-B-2		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: **280-21902-3** **Client ID:** **TP07 SD020**

Sample Date/Time: 10/19/2011 11:20 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-3-C		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-A-3-C		280-94612	280-93507	11/04/2011 01:41	1	TAL DEN	AGCM
P:3050B	280-21902-A-3-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-3-A		280-95284	280-92642	11/07/2011 20:57	1	TAL DEN	TEL
A:Moisture	280-21902-B-3		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: **280-21902-4** **Client ID:** **TP08 SD021**

Sample Date/Time: 10/19/2011 11:30 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-4-B		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-B-4-B		280-94612	280-93507	11/04/2011 01:55	1	TAL DEN	AGCM
P:3050B	280-21902-A-4-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-4-A		280-95284	280-92642	11/07/2011 21:09	1	TAL DEN	TEL
A:Moisture	280-21902-A-4		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: **280-21902-5** **Client ID:** **TP09 SD022**

Sample Date/Time: 10/19/2011 11:25 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-5-B		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-B-5-B		280-94612	280-93507	11/04/2011 02:08	1	TAL DEN	AGCM
P:3050B	280-21902-A-5-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-5-A		280-95284	280-92642	11/07/2011 21:12	1	TAL DEN	TEL
A:Moisture	280-21902-A-5		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Client: UXB International, Inc.　　　　Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: **280-21902-6**　　**Client ID:** **TP10 SD023**

Sample Date/Time: 10/19/2011 11:35　　Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-6-C		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-A-6-C		280-94612	280-93507	11/04/2011 02:22	1	TAL DEN	AGCM
P:3050B	280-21902-A-6-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-6-A		280-95284	280-92642	11/07/2011 21:15	1	TAL DEN	TEL
A:Moisture	280-21902-B-6		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: **280-21902-7**　　**Client ID:** **TP11 SD024**

Sample Date/Time: 10/19/2011 11:40　　Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-7-C		280-94725	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-A-7-C		280-94725	280-93507	11/04/2011 07:37	1	TAL DEN	AGCM
P:3050B	280-21902-A-7-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-7-A		280-95284	280-92642	11/07/2011 21:17	1	TAL DEN	TEL
A:Moisture	280-21902-B-7		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: **280-21902-7 MS**　　**Client ID:** **TP11 SD024**

Sample Date/Time: 10/19/2011 11:40　　Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-7-D MS		280-94725	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-A-7-D MS		280-94725	280-93507	11/04/2011 07:51	1	TAL DEN	AGCM

Lab ID: **280-21902-7 MSD**　　**Client ID:** **TP11 SD024**

Sample Date/Time: 10/19/2011 11:40　　Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-7-E MSD		280-94725	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-A-7-E MSD		280-94725	280-93507	11/04/2011 08:05	1	TAL DEN	AGCM

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: 280-21902-8 **Client ID: TP12 SD025**

Sample Date/Time: 10/19/2011 11:45 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-8-B		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-B-8-B		280-94612	280-93507	11/04/2011 03:30	1	TAL DEN	AGCM
P:3050B	280-21902-A-8-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-8-A		280-95284	280-92642	11/07/2011 21:20	1	TAL DEN	TEL
A:Moisture	280-21902-A-8		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: 280-21902-9 **Client ID: TP13 SD026**

Sample Date/Time: 10/19/2011 11:50 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-9-C		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-A-9-C		280-94612	280-93507	11/04/2011 03:44	1	TAL DEN	AGCM
P:3050B	280-21902-A-9-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-9-A		280-95284	280-92642	11/07/2011 21:23	1	TAL DEN	TEL
A:Moisture	280-21902-B-9		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: 280-21902-10 **Client ID: TP14 SD027**

Sample Date/Time: 10/19/2011 09:55 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-10-B		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-B-10-B		280-94612	280-93507	11/04/2011 03:57	1	TAL DEN	AGCM
P:3050B	280-21902-A-10-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-10-A		280-95284	280-92642	11/07/2011 21:26	1	TAL DEN	TEL
A:Moisture	280-21902-A-10		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: 280-21902-11 **Client ID: TP14 SD028**

Sample Date/Time: 10/19/2011 09:55 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-11-B		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-B-11-B		280-94612	280-93507	11/04/2011 04:11	1	TAL DEN	AGCM
P:3050B	280-21902-A-11-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-11-A		280-95284	280-92642	11/07/2011 21:29	1	TAL DEN	TEL
A:Moisture	280-21902-A-11		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Client: UXB International, Inc.

Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: 280-21902-12 **Client ID: TP15 SD029**

Sample Date/Time: 10/19/2011 10:30 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-12-B		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-B-12-B		280-94612	280-93507	11/04/2011 04:24	1	TAL DEN	AGCM
P:3050B	280-21902-A-12-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-12-A		280-95284	280-92642	11/07/2011 21:32	1	TAL DEN	TEL
A:Moisture	280-21902-A-12		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: 280-21902-13 **Client ID: TP16 SD030**

Sample Date/Time: 10/19/2011 10:20 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-13-C		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-A-13-C		280-94612	280-93507	11/04/2011 04:52	1	TAL DEN	AGCM
P:3050B	280-21902-A-13-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-13-A		280-95284	280-92642	11/07/2011 21:44	1	TAL DEN	TEL
A:Moisture	280-21902-B-13		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: 280-21902-14 **Client ID: TP17 SD031**

Sample Date/Time: 10/19/2011 09:48 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-14-C		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-A-14-C		280-94612	280-93507	11/04/2011 05:06	1	TAL DEN	AGCM
P:3050B	280-21902-A-14-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-14-A		280-95284	280-92642	11/07/2011 21:46	1	TAL DEN	TEL
A:Moisture	280-21902-B-14		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: 280-21902-15 **Client ID: TP18 SD032**

Sample Date/Time: 10/19/2011 10:45 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-15-B		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-B-15-B		280-94612	280-93507	11/04/2011 05:19	1	TAL DEN	AGCM
P:3050B	280-21902-A-15-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-15-A		280-95284	280-92642	11/07/2011 21:49	1	TAL DEN	TEL
A:Moisture	280-21902-A-15		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: 280-21902-16 **Client ID: TP19 SD033**

Sample Date/Time: 10/19/2011 10:40 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-16-C		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-A-16-C		280-94612	280-93507	11/04/2011 05:33	1	TAL DEN	AGCM
P:3050B	280-21902-A-16-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-16-A		280-95284	280-92642	11/07/2011 21:52	1	TAL DEN	TEL
A:Moisture	280-21902-B-16		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: 280-21902-17 **Client ID: TP20 SD034**

Sample Date/Time: 10/19/2011 11:05 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-17-B		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-B-17-B		280-94612	280-93507	11/04/2011 05:46	1	TAL DEN	AGCM
P:3050B	280-21902-A-17-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-17-A		280-95284	280-92642	11/07/2011 21:55	1	TAL DEN	TEL
A:Moisture	280-21902-A-17		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: 280-21902-17 DU **Client ID: TP20 SD034**

Sample Date/Time: 10/19/2011 11:05 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	280-21902-A-17 DU		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: 280-21902-18 **Client ID: TP21 SD035**

Sample Date/Time: 10/19/2011 10:55 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-18-C		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-A-18-C		280-94612	280-93507	11/04/2011 06:00	1	TAL DEN	AGCM
P:3050B	280-21902-A-18-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-18-A		280-95284	280-92642	11/07/2011 21:58	1	TAL DEN	TEL
A:Moisture	280-21902-B-18		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: **280-21902-19** **Client ID:** **TP21 SD036**

Sample Date/Time: 10/19/2011 10:55 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-19-B		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-B-19-B		280-94612	280-93507	11/04/2011 06:13	1	TAL DEN	AGCM
P:3050B	280-21902-A-19-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-19-A		280-95284	280-92642	11/07/2011 22:01	1	TAL DEN	TEL
A:Moisture	280-21902-A-19		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: **280-21902-20** **Client ID:** **TP01 SB128**

Sample Date/Time: 10/19/2011 13:30 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-20-B		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	280-21902-B-20-B		280-94612	280-93507	11/04/2011 06:28	1	TAL DEN	AGCM
P:3050B	280-21902-A-20-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-20-A		280-95284	280-92642	11/07/2011 22:04	1	TAL DEN	TEL
A:Moisture	280-21902-A-20		280-92905		10/25/2011 07:37	1	TAL DEN	PBB

Lab ID: **280-21902-21** **Client ID:** **TP01 SB129**

Sample Date/Time: 10/19/2011 13:32 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-21-E		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-21-E		280-94610	280-92995	11/03/2011 12:30	1	TAL DEN	AGCM
P:3050B	280-21902-A-21-A		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-21-A		280-95284	280-92643	11/07/2011 22:21	1	TAL DEN	TEL
A:Moisture	280-21902-B-21		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: **280-21902-22** **Client ID:** **TP01 SB130**

Sample Date/Time: 10/19/2011 13:35 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-22-C		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-22-C		280-94610	280-92995	11/03/2011 12:44	1	TAL DEN	AGCM
P:3050B	280-21902-A-22-F		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-22-F		280-95284	280-92643	11/07/2011 22:24	1	TAL DEN	TEL
A:Moisture	280-21902-B-22		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: **280-21902-22 MS** **Client ID:** **TP01 SB130**

Sample Date/Time: 10/19/2011 13:35 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-22-D MS		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-22-D MS		280-94610	280-92995	11/03/2011 12:57	1	TAL DEN	AGCM

Lab ID: **280-21902-22 MSD** **Client ID:** **TP01 SB130**

Sample Date/Time: 10/19/2011 13:35 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-22-E MSD		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-22-E MSD		280-94610	280-92995	11/03/2011 13:11	1	TAL DEN	AGCM

Lab ID: **280-21902-23** **Client ID:** **TP01 SB131**

Sample Date/Time: 10/19/2011 13:45 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-23-B		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-23-B		280-94610	280-92995	11/03/2011 13:24	1	TAL DEN	AGCM
P:3050B	280-21902-A-23-B		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-23-B		280-95284	280-92643	11/07/2011 22:27	1	TAL DEN	TEL
A:Moisture	280-21902-A-23		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: **280-21902-35** **Client ID:** **CP27 SB052**

Sample Date/Time: 10/18/2011 13:55 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-35-B		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-35-B		280-94610	280-92995	11/03/2011 13:38	1	TAL DEN	AGCM
P:3050B	280-21902-A-35-B		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-35-B		280-95284	280-92643	11/07/2011 22:30	1	TAL DEN	TEL
A:Moisture	280-21902-A-35		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21902-1

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Lab ID: 280-21902-36 **Client ID: CP27 SB053**

Sample Date/Time: 10/18/2011 14:05 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-36-C		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-36-C		280-94610	280-92995	11/03/2011 14:06	1	TAL DEN	AGCM
P:3050B	280-21902-A-36-D		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-36-D		280-95284	280-92643	11/07/2011 22:33	1	TAL DEN	TEL
A:Moisture	280-21902-B-36		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: 280-21902-37 **Client ID: CP22 SB040**

Sample Date/Time: 10/18/2011 13:40 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-37-B		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-37-B		280-94610	280-92995	11/03/2011 14:19	1	TAL DEN	AGCM
P:3050B	280-21902-A-37-B		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-37-B		280-95284	280-92643	11/07/2011 22:36	1	TAL DEN	TEL
A:Moisture	280-21902-A-37		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: 280-21902-38 **Client ID: CP22 SB041**

Sample Date/Time: 10/18/2011 13:50 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-38-C		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-38-C		280-94610	280-92995	11/03/2011 14:33	1	TAL DEN	AGCM
P:3050B	280-21902-A-38-D		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-38-D		280-95284	280-92643	11/07/2011 22:39	1	TAL DEN	TEL
A:Moisture	280-21902-B-38		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: 280-21902-39 **Client ID: CP25 SB048**

Sample Date/Time: 10/18/2011 13:25 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-39-B		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-39-B		280-94610	280-92995	11/03/2011 14:47	1	TAL DEN	AGCM
P:3050B	280-21902-A-39-B		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-39-B		280-95284	280-92643	11/07/2011 22:51	1	TAL DEN	TEL
A:Moisture	280-21902-A-39		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: 280-21902-40 **Client ID: CP25 SB049**

Sample Date/Time: 10/18/2011 13:35 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-40-B		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-40-B		280-94610	280-92995	11/03/2011 15:00	1	TAL DEN	AGCM
P:3050B	280-21902-A-40-B		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-40-B		280-95284	280-92643	11/07/2011 22:53	1	TAL DEN	TEL
A:Moisture	280-21902-A-40		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: 280-21902-41 **Client ID: CP24 SB046**

Sample Date/Time: 10/18/2011 13:00 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-41-C		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-41-C		280-94610	280-92995	11/03/2011 15:15	1	TAL DEN	AGCM
P:3050B	280-21902-A-41-D		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-41-D		280-95284	280-92643	11/07/2011 22:56	1	TAL DEN	TEL
A:Moisture	280-21902-B-41		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: 280-21902-42 **Client ID: CP24 SB047**

Sample Date/Time: 10/18/2011 13:15 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-42-C		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-42-C		280-94610	280-92995	11/03/2011 15:28	1	TAL DEN	AGCM
P:3050B	280-21902-A-42-D		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-42-D		280-95284	280-92643	11/07/2011 22:59	1	TAL DEN	TEL
A:Moisture	280-21902-B-42		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: 280-21902-43 **Client ID: CP26 SB050**

Sample Date/Time: 10/18/2011 12:35 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-43-B		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-43-B		280-94610	280-92995	11/03/2011 15:42	1	TAL DEN	AGCM
P:3050B	280-21902-A-43-B		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-43-B		280-95284	280-92643	11/07/2011 23:02	1	TAL DEN	TEL
A:Moisture	280-21902-A-43		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Client: UXB International, Inc.　　　　Job Number: 280-21902-1

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Lab ID: 280-21902-44　　**Client ID: CP26 SB051**

Sample Date/Time: 10/18/2011 12:40　　Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-44-C		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-44-C		280-94610	280-92995	11/03/2011 16:09	1	TAL DEN	AGCM
P:3050B	280-21902-A-44-D		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-44-D		280-95284	280-92643	11/07/2011 23:05	1	TAL DEN	TEL
A:Moisture	280-21902-B-44		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: 280-21902-44 DU　　**Client ID: CP26 SB051**

Sample Date/Time: 10/18/2011 12:40　　Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	280-21902-B-44 DU		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: 280-21902-45　　**Client ID: CP21 SB038**

Sample Date/Time: 10/18/2011 12:20　　Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-45-B		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-45-B		280-94610	280-92995	11/03/2011 16:23	1	TAL DEN	AGCM
P:3050B	280-21902-A-45-B		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-45-B		280-95284	280-92643	11/07/2011 23:08	1	TAL DEN	TEL
A:Moisture	280-21902-A-45		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: 280-21902-46　　**Client ID: CP21 SB039**

Sample Date/Time: 10/18/2011 12:28　　Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-46-B		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-46-B		280-94610	280-92995	11/03/2011 16:36	1	TAL DEN	AGCM
P:3050B	280-21902-A-46-B		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-46-B		280-95284	280-92643	11/07/2011 23:11	1	TAL DEN	TEL
A:Moisture	280-21902-A-46		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: **280-21902-47** **Client ID:** **CP20 SB037**

Sample Date/Time: 10/18/2011 13:30 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-47-C		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-47-C		280-94610	280-92995	11/03/2011 16:50	1	TAL DEN	AGCM
P:3050B	280-21902-A-47-D		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-47-D		280-95284	280-92643	11/07/2011 23:37	1	TAL DEN	TEL
A:Moisture	280-21902-B-47		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: **280-21902-48** **Client ID:** **CP20 SB036**

Sample Date/Time: 10/18/2011 14:15 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-48-B		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-48-B		280-94610	280-92995	11/03/2011 17:04	1	TAL DEN	AGCM
P:3050B	280-21902-A-48-B		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-48-B		280-95284	280-92643	11/07/2011 23:40	1	TAL DEN	TEL
A:Moisture	280-21902-A-48		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: **280-21902-50** **Client ID:** **CP23 SB042**

Sample Date/Time: 10/18/2011 14:40 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-50-B		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-50-B		280-94610	280-92995	11/03/2011 17:31	1	TAL DEN	AGCM
P:3050B	280-21902-A-50-B		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-50-B		280-95284	280-92644	11/08/2011 00:45	1	TAL DEN	TEL
P:3050B	280-21902-A-50-B		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-50-B		280-95436	280-92644	11/08/2011 19:50	1	TAL DEN	TEL
A:Moisture	280-21902-A-50		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: **280-21902-51** **Client ID:** **CP23 SB044**

Sample Date/Time: 10/18/2011 14:40 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-51-E		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-51-E		280-94610	280-92995	11/03/2011 17:44	1	TAL DEN	AGCM
P:3050B	280-21902-A-51-F		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-51-F		280-95284	280-92644	11/08/2011 00:48	1	TAL DEN	TEL
P:3050B	280-21902-A-51-F		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-51-F		280-95436	280-92644	11/08/2011 19:53	1	TAL DEN	TEL
A:Moisture	280-21902-B-51		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Client: UXB International, Inc.

Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: **280-21902-52** **Client ID:** **CP23 SB043**

Sample Date/Time: 10/18/2011 14:50 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-52-B		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-52-B		280-94611	280-93019	11/03/2011 18:39	1	TAL DEN	AGCM
P:3050B	280-21902-A-52-B		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-52-B		280-95284	280-92643	11/07/2011 23:23	1	TAL DEN	TEL
A:Moisture	280-21902-A-52		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: **280-21902-52** **Client ID:** **CP23 SB043**

Sample Date/Time: 10/18/2011 14:50 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-52-G MS		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-52-G MS		280-94611	280-93019	11/03/2011 18:53	1	TAL DEN	AGCM
P:3050B	280-21902-A-52-C MS		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-52-C MS		280-95284	280-92643	11/07/2011 23:31	1	TAL DEN	TEL

Lab ID: **280-21902-52** **Client ID:** **CP23 SB043**

Sample Date/Time: 10/18/2011 14:50 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-52-H MSD		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-52-H MSD		280-94611	280-93019	11/03/2011 19:06	1	TAL DEN	AGCM
P:3050B	280-21902-A-52-D MSD		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-52-D MSD		280-95284	280-92643	11/07/2011 23:34	1	TAL DEN	TEL

Lab ID: **280-21902-52 SD** **Client ID:** **CP23 SB043**

Sample Date/Time: 10/18/2011 14:50 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21902-A-52-B SD ^5		280-95284	280-92643	11/05/2011 05:00	5	TAL DEN	CLI
A:6020A	280-21902-A-52-B SD ^5		280-95284	280-92643	11/07/2011 23:26	5	TAL DEN	TEL
P:3050B	280-21902-A-52-B PDS		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	280-21902-A-52-B PDS		280-95284	280-92643	11/07/2011 23:29	1	TAL DEN	TEL

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: **280-21902-53** **Client ID:** **CP03 IS009**

Sample Date/Time: 10/18/2011 14:28 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-53-D		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21902-A-53-D		280-94252	280-93548	11/02/2011 08:11	1	TAL DEN	AGCM
P:3050B	280-21902-A-53-H		280-95436	280-95210	11/08/2011 09:00	1	TAL DEN	CLI
A:6020A	280-21902-A-53-H		280-95436	280-95210	11/08/2011 21:29	1	TAL DEN	TEL

Lab ID: **280-21902-53 MS** **Client ID:** **CP03 IS009**

Sample Date/Time: 10/18/2011 14:28 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21902-A-53-I MS		280-95436	280-95210	11/08/2011 09:00	1	TAL DEN	CLI
A:6020A	280-21902-A-53-I MS		280-95436	280-95210	11/08/2011 21:37	1	TAL DEN	TEL

Lab ID: **280-21902-53 MSD** **Client ID:** **CP03 IS009**

Sample Date/Time: 10/18/2011 14:28 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21902-A-53-J MSD		280-95436	280-95210	11/08/2011 09:00	1	TAL DEN	CLI
A:6020A	280-21902-A-53-J MSD		280-95436	280-95210	11/08/2011 21:40	1	TAL DEN	TEL

Lab ID: **280-21902-53 SD** **Client ID:** **CP03 IS009**

Sample Date/Time: 10/18/2011 14:28 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21902-A-53-H SD ^5		280-95436	280-95210	11/08/2011 09:00	5	TAL DEN	CLI
A:6020A	280-21902-A-53-H SD ^5		280-95436	280-95210	11/08/2011 21:32	5	TAL DEN	TEL
P:3050B	280-21902-A-53-H PDS		280-95436	280-95210	11/08/2011 09:00	1	TAL DEN	CLI
A:6020A	280-21902-A-53-H PDS		280-95436	280-95210	11/08/2011 21:34	1	TAL DEN	TEL

Lab ID: **280-21902-54** **Client ID:** **CP03 IS008**

Sample Date/Time: 10/18/2011 13:45 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-54-D		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21902-A-54-D		280-94252	280-93548	11/02/2011 08:25	1	TAL DEN	AGCM
P:3050B	280-21902-A-54-G		280-95436	280-95210	11/08/2011 09:00	1	TAL DEN	CLI
A:6020A	280-21902-A-54-G		280-95436	280-95210	11/08/2011 21:43	1	TAL DEN	TEL

TestAmerica Denver A = Analytical Method P = Prep Method

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: **280-21902-55** **Client ID:** **CP03 IS007**

Sample Date/Time: 10/18/2011 12:45 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-55-D		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21902-A-55-D		280-94252	280-93548	11/02/2011 08:39	1	TAL DEN	AGCM
P:3050B	280-21902-A-55-G		280-95436	280-95210	11/08/2011 09:00	1	TAL DEN	CLI
A:6020A	280-21902-A-55-G		280-95436	280-95210	11/08/2011 21:55	1	TAL DEN	TEL

Lab ID: **280-21902-56** **Client ID:** **CP02 IS004**

Sample Date/Time: 10/17/2011 13:37 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-56-D		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21902-A-56-D		280-94252	280-93548	11/02/2011 08:52	1	TAL DEN	AGCM
P:3050B	280-21902-A-56-G		280-95436	280-95210	11/08/2011 09:00	1	TAL DEN	CLI
A:6020A	280-21902-A-56-G		280-95436	280-95210	11/08/2011 21:57	1	TAL DEN	TEL

Lab ID: **280-21902-57** **Client ID:** **CP02 IS005**

Sample Date/Time: 10/17/2011 14:36 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-57-D		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21902-A-57-D		280-94252	280-93548	11/02/2011 09:06	1	TAL DEN	AGCM
P:3050B	280-21902-A-57-G		280-95436	280-95210	11/08/2011 09:00	1	TAL DEN	CLI
A:6020A	280-21902-A-57-G		280-95436	280-95210	11/08/2011 22:00	1	TAL DEN	TEL

Lab ID: **280-21902-58** **Client ID:** **CP02 IS006**

Sample Date/Time: 10/17/2011 15:17 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-58-D		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21902-A-58-D		280-94252	280-93548	11/02/2011 09:20	1	TAL DEN	AGCM
P:3050B	280-21902-A-58-I		280-95436	280-95210	11/08/2011 09:00	1	TAL DEN	CLI
A:6020A	280-21902-A-58-I		280-95436	280-95210	11/08/2011 22:03	1	TAL DEN	TEL

Lab ID: **280-21902-58 MS** **Client ID:** **CP02 IS006**

Sample Date/Time: 10/17/2011 15:17 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-58-E MS		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21902-A-58-E MS		280-94252	280-93548	11/02/2011 09:33	1	TAL DEN	AGCM

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: **280-21902-58 MSD** **Client ID:** **CP02 IS006**

Sample Date/Time: 10/17/2011 15:17 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-58-F MSD		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	280-21902-A-58-F MSD		280-94252	280-93548	11/02/2011 09:47	1	TAL DEN	AGCM

Lab ID: **280-21902-59** **Client ID:** **CP13 SB019**

Sample Date/Time: 10/17/2011 12:46 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-59-B		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-59-B		280-94611	280-93019	11/03/2011 19:20	1	TAL DEN	AGCM
P:3050B	280-21902-A-59-B		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-59-B		280-95284	280-92644	11/08/2011 00:51	1	TAL DEN	TEL
P:3050B	280-21902-A-59-B		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-59-B		280-95436	280-92644	11/08/2011 19:55	1	TAL DEN	TEL
A:Moisture	280-21902-A-59		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: **280-21902-60** **Client ID:** **CP13 SB021**

Sample Date/Time: 10/17/2011 12:46 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-60-C		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-60-C		280-94611	280-93019	11/03/2011 19:33	1	TAL DEN	AGCM
P:3050B	280-21902-A-60-D		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-60-D		280-95284	280-92644	11/08/2011 00:54	1	TAL DEN	TEL
P:3050B	280-21902-A-60-D		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-60-D		280-95436	280-92644	11/08/2011 19:58	1	TAL DEN	TEL
A:Moisture	280-21902-B-60		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: **280-21902-61** **Client ID:** **CP13 SB020**

Sample Date/Time: 10/17/2011 12:50 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-61-B		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-61-B		280-94611	280-93019	11/03/2011 19:47	1	TAL DEN	AGCM
P:3050B	280-21902-A-61-B		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-61-B		280-95284	280-92644	11/08/2011 00:57	1	TAL DEN	TEL
P:3050B	280-21902-A-61-B		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-61-B		280-95436	280-92644	11/08/2011 20:01	1	TAL DEN	TEL
A:Moisture	280-21902-A-61		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

TestAmerica Denver A = Analytical Method P = Prep Method

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: 280-21902-61 **Client ID: CP13 SB020**

Sample Date/Time: 10/17/2011 12:50 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-61-G MS		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-61-G MS		280-94611	280-93019	11/03/2011 20:01	1	TAL DEN	AGCM
P:3050B	280-21902-A-61-C MS		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-61-C MS		280-95284	280-92644	11/08/2011 01:15	1	TAL DEN	TEL
P:3050B	280-21902-A-61-C MS		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-61-C MS		280-95436	280-92644	11/08/2011 20:19	1	TAL DEN	TEL

Lab ID: 280-21902-61 **Client ID: CP13 SB020**

Sample Date/Time: 10/17/2011 12:50 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-61-H MSD		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-61-H MSD		280-94611	280-93019	11/03/2011 20:14	1	TAL DEN	AGCM
P:3050B	280-21902-A-61-D MSD		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-61-D MSD		280-95284	280-92644	11/08/2011 01:17	1	TAL DEN	TEL
P:3050B	280-21902-A-61-D MSD		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-61-D MSD		280-95436	280-92644	11/08/2011 20:22	1	TAL DEN	TEL

Client: UXB International, Inc. | Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: 280-21902-61 SD **Client ID: CP13 SB020**

Sample Date/Time: 10/17/2011 12:50 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-21902-A-61-B SD ^5		280-95284	280-92644	11/06/2011 10:00	5	TAL DEN	JM
A:6020A	280-21902-A-61-B SD ^5		280-95284	280-92644	11/08/2011 01:00	5	TAL DEN	TEL
P:3050B	280-21902-A-61-B PDS		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-61-B PDS		280-95284	280-92644	11/08/2011 01:12	1	TAL DEN	TEL
P:3050B	280-21902-A-61-B SD ^5		280-95436	280-92644	11/06/2011 10:00	5	TAL DEN	JM
A:6020A	280-21902-A-61-B SD ^5		280-95436	280-92644	11/08/2011 20:04	5	TAL DEN	TEL
P:3050B	280-21902-A-61-B PDS		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-61-B PDS		280-95436	280-92644	11/08/2011 20:16	1	TAL DEN	TEL

Lab ID: 280-21902-63 **Client ID: CP14 SB023**

Sample Date/Time: 10/17/2011 13:06 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-63-B		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-63-B		280-94611	280-93019	11/03/2011 21:23	1	TAL DEN	AGCM
P:3050B	280-21902-A-63-B		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-63-B		280-95284	280-92644	11/08/2011 01:20	1	TAL DEN	TEL
P:3050B	280-21902-A-63-B		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-63-B		280-95436	280-92644	11/08/2011 20:24	1	TAL DEN	TEL
A:Moisture	280-21902-A-63		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: 280-21902-64 **Client ID: CP14 SB024**

Sample Date/Time: 10/17/2011 13:10 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-64-C		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-64-C		280-94611	280-93019	11/03/2011 21:36	1	TAL DEN	AGCM
P:3050B	280-21902-A-64-D		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-64-D		280-95284	280-92644	11/08/2011 01:23	1	TAL DEN	TEL
P:3050B	280-21902-A-64-D		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-64-D		280-95436	280-92644	11/08/2011 20:27	1	TAL DEN	TEL
A:Moisture	280-21902-B-64		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: 280-21902-64 DU **Client ID: CP14 SB024**

Sample Date/Time: 10/17/2011 13:10 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:Moisture	280-21902-B-64 DU		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: 280-21902-65 **Client ID: CP18 SB031**

Sample Date/Time: 10/17/2011 13:30 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-65-C		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-65-C		280-94611	280-93019	11/03/2011 21:50	1	TAL DEN	AGCM
P:3050B	280-21902-A-65-D		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-65-D		280-95284	280-92644	11/08/2011 01:26	1	TAL DEN	TEL
P:3050B	280-21902-A-65-D		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-65-D		280-95436	280-92644	11/08/2011 20:30	1	TAL DEN	TEL
A:Moisture	280-21902-B-65		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: 280-21902-66 **Client ID: CP18 SB032**

Sample Date/Time: 10/17/2011 13:36 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-66-B		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-66-B		280-94611	280-93019	11/03/2011 22:04	1	TAL DEN	AGCM
P:3050B	280-21902-A-66-B		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-66-B		280-95284	280-92644	11/08/2011 01:29	1	TAL DEN	TEL
P:3050B	280-21902-A-66-B		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-66-B		280-95436	280-92644	11/08/2011 20:33	1	TAL DEN	TEL
A:Moisture	280-21902-A-66		280-92752		10/24/2011 13:04	1	TAL DEN	PBB

Lab ID: 280-21902-67 **Client ID: CP18 SB033**

Sample Date/Time: 10/17/2011 13:36 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-67-C		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-67-C		280-94611	280-93019	11/03/2011 22:17	1	TAL DEN	AGCM
P:3050B	280-21902-A-67-D		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-67-D		280-95284	280-92644	11/08/2011 01:32	1	TAL DEN	TEL
P:3050B	280-21902-A-67-D		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-67-D		280-95436	280-92644	11/08/2011 20:36	1	TAL DEN	TEL
A:Moisture	280-21902-B-67		280-92752		10/24/2011 13:04	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: **280-21902-68** **Client ID:** **CP15 SB025**

Sample Date/Time: 10/17/2011 13:55 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-68-C		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-68-C		280-94611	280-93019	11/03/2011 22:44	1	TAL DEN	AGCM
P:3050B	280-21902-A-68-D		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-68-D		280-95284	280-92644	11/08/2011 01:44	1	TAL DEN	TEL
P:3050B	280-21902-A-68-D		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-68-D		280-95436	280-92644	11/08/2011 20:48	1	TAL DEN	TEL
A:Moisture	280-21902-B-68		280-92752		10/24/2011 13:04	1	TAL DEN	PBB

Lab ID: **280-21902-69** **Client ID:** **CP15 SB026**

Sample Date/Time: 10/17/2011 13:57 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-69-C		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-69-C		280-94611	280-93019	11/03/2011 22:58	1	TAL DEN	AGCM
P:3050B	280-21902-A-69-D		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-69-D		280-95284	280-92644	11/08/2011 01:47	1	TAL DEN	TEL
P:3050B	280-21902-A-69-D		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-69-D		280-95436	280-92644	11/08/2011 20:51	1	TAL DEN	TEL
A:Moisture	280-21902-B-69		280-92752		10/24/2011 09:24	1	TAL DEN	PBB

Lab ID: **280-21902-70** **Client ID:** **CP16 SB027**

Sample Date/Time: 10/17/2011 14:20 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-70-B		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-70-B		280-94611	280-93019	11/03/2011 23:11	1	TAL DEN	AGCM
P:3050B	280-21902-A-70-B		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-70-B		280-95284	280-92644	11/08/2011 01:49	1	TAL DEN	TEL
P:3050B	280-21902-A-70-B		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-70-B		280-95436	280-92644	11/08/2011 20:53	1	TAL DEN	TEL
A:Moisture	280-21902-A-70		280-92752		10/24/2011 13:04	1	TAL DEN	PBB

Client: UXB International, Inc.

Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: **280-21902-71** **Client ID:** **CP16 SB028**

Sample Date/Time: 10/17/2011 14:40 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-71-B		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-71-B		280-94611	280-93019	11/03/2011 23:25	1	TAL DEN	AGCM
P:3050B	280-21902-A-71-B		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-71-B		280-95284	280-92644	11/08/2011 01:52	1	TAL DEN	TEL
P:3050B	280-21902-A-71-B		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-71-B		280-95436	280-92644	11/08/2011 20:56	1	TAL DEN	TEL
A:Moisture	280-21902-A-71		280-92752		10/24/2011 13:04	1	TAL DEN	PBB

Lab ID: **280-21902-72** **Client ID:** **CP19 SB034**

Sample Date/Time: 10/17/2011 14:42 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-72-C		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-72-C		280-94611	280-93019	11/03/2011 23:39	1	TAL DEN	AGCM
P:3050B	280-21902-A-72-D		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-72-D		280-95284	280-92644	11/08/2011 01:55	1	TAL DEN	TEL
P:3050B	280-21902-A-72-D		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-72-D		280-95436	280-92644	11/08/2011 20:59	1	TAL DEN	TEL
A:Moisture	280-21902-B-72		280-92752		10/24/2011 13:04	1	TAL DEN	PBB

Lab ID: **280-21902-73** **Client ID:** **CP19 SB035**

Sample Date/Time: 10/17/2011 14:44 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-73-B		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-73-B		280-94611	280-93019	11/03/2011 23:52	1	TAL DEN	AGCM
P:3050B	280-21902-A-73-B		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-73-B		280-95284	280-92644	11/08/2011 01:58	1	TAL DEN	TEL
P:3050B	280-21902-A-73-B		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-73-B		280-95436	280-92644	11/08/2011 21:02	1	TAL DEN	TEL
A:Moisture	280-21902-A-73		280-92752		10/24/2011 13:04	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: **280-21902-74** **Client ID:** **CP17 SB029**

Sample Date/Time: 10/17/2011 14:53 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-B-74-B		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-B-74-B		280-94611	280-93019	11/04/2011 00:06	1	TAL DEN	AGCM
P:3050B	280-21902-A-74-B		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-74-B		280-95284	280-92644	11/08/2011 02:01	1	TAL DEN	TEL
P:3050B	280-21902-A-74-B		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-74-B		280-95436	280-92644	11/08/2011 21:05	1	TAL DEN	TEL
A:Moisture	280-21902-A-74		280-92752		10/24/2011 13:04	1	TAL DEN	PBB

Lab ID: **280-21902-75** **Client ID:** **CP17 SB030**

Sample Date/Time: 10/17/2011 15:03 Received Date/Time: 10/21/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-21902-A-75-C		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	280-21902-A-75-C		280-94611	280-93019	11/04/2011 00:19	1	TAL DEN	AGCM
P:3050B	280-21902-A-75-D		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-75-D		280-95284	280-92644	11/08/2011 02:04	1	TAL DEN	TEL
P:3050B	280-21902-A-75-D		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	280-21902-A-75-D		280-95436	280-92644	11/08/2011 21:08	1	TAL DEN	TEL
A:Moisture	280-21902-B-75		280-92752		10/24/2011 13:04	1	TAL DEN	PBB

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	MB 280-93548/1-A		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	MB 280-93548/1-A		280-94252	280-93548	11/02/2011 05:42	1	TAL DEN	AGCM
P:8330B	MB 280-92995/1-A		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	MB 280-92995/1-A		280-94610	280-92995	11/03/2011 12:02	1	TAL DEN	AGCM
P:8330B	MB 280-93019/1-A		280-94611	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	MB 280-93019/1-A		280-94611	280-93019	11/03/2011 18:12	1	TAL DEN	AGCM
P:8330B	MB 280-93507/1-A		280-94612	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	MB 280-93507/1-A		280-94612	280-93507	11/04/2011 00:46	1	TAL DEN	AGCM
P:3050B	MB 280-92642/1-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	MB 280-92642/1-A		280-95284	280-92642	11/07/2011 20:34	1	TAL DEN	TEL
P:3050B	MB 280-92643/1-A		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	MB 280-92643/1-A		280-95284	280-92643	11/07/2011 22:16	1	TAL DEN	TEL
P:3050B	MB 280-92644/1-A		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	MB 280-92644/1-A		280-95284	280-92644	11/08/2011 00:40	1	TAL DEN	TEL
P:3050B	MB 280-92644/1-A		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	MB 280-92644/1-A		280-95436	280-92644	11/08/2011 19:44	1	TAL DEN	TEL
P:3050B	MB 280-95210/1-A		280-95436	280-95210	11/08/2011 09:00	1	TAL DEN	CLI
A:6020A	MB 280-95210/1-A		280-95436	280-95210	11/08/2011 21:20	1	TAL DEN	TEL

Client: UXB International, Inc. Job Number: 280-21902-1

Laboratory Chronicle

Lab ID: GB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	GB 280-92116/1-B		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	GB 280-92116/1-B		280-94252	280-93548	11/02/2011 06:09	1	TAL DEN	AGCM

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	LCS 280-93548/2-A		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	LCS 280-93548/2-A		280-94252	280-93548	11/02/2011 05:55	1	TAL DEN	AGCM
P:8330B	LCS 280-92995/2-A		280-94610	280-92995	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	LCS 280-92995/2-A		280-94610	280-92995	11/03/2011 12:16	1	TAL DEN	AGCM
P:8330B	LCS 280-93019/2-A		280-94725	280-93019	10/25/2011 19:45	1	TAL DEN	CDC
A:8321B	LCS 280-93019/2-A		280-94725	280-93019	11/04/2011 07:10	1	TAL DEN	AGCM
P:8330B	LCS 280-93507/2-A		280-94725	280-93507	10/27/2011 18:25	1	TAL DEN	CDC
A:8321B	LCS 280-93507/2-A		280-94725	280-93507	11/04/2011 07:23	1	TAL DEN	AGCM
P:3050B	LCS 280-92642/2-A		280-95284	280-92642	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	LCS 280-92642/2-A		280-95284	280-92642	11/07/2011 20:37	1	TAL DEN	TEL
P:3050B	LCS 280-92643/2-A		280-95284	280-92643	11/05/2011 05:00	1	TAL DEN	CLI
A:6020A	LCS 280-92643/2-A		280-95284	280-92643	11/07/2011 22:19	1	TAL DEN	TEL
P:3050B	LCS 280-92644/2-A		280-95284	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	LCS 280-92644/2-A		280-95284	280-92644	11/08/2011 00:43	1	TAL DEN	TEL
P:3050B	LCS 280-92644/2-A		280-95436	280-92644	11/06/2011 10:00	1	TAL DEN	JM
A:6020A	LCS 280-92644/2-A		280-95436	280-92644	11/08/2011 19:47	1	TAL DEN	TEL
P:3050B	LCS 280-95210/2-A		280-95436	280-95210	11/08/2011 09:00	1	TAL DEN	CLI
A:6020A	LCS 280-95210/2-A		280-95436	280-95210	11/08/2011 21:23	1	TAL DEN	TEL

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	LCSD 280-95210/3-A		280-95436	280-95210	11/08/2011 09:00	1	TAL DEN	CLI
A:6020A	LCSD 280-95210/3-A		280-95436	280-95210	11/08/2011 21:26	1	TAL DEN	TEL

Lab ID: LCSSRM **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	LCSSRM 280-92116/2-B		280-94252	280-93548	10/27/2011 22:10	1	TAL DEN	CDC
A:8321B	LCSSRM 280-92116/2-B		280-94252	280-93548	11/02/2011 06:23	1	TAL DEN	AGCM

Client: UXB International, Inc.

Job Number: 280-21902-1

Laboratory Chronicle

Lab References:
TAL DEN = TestAmerica Denver

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent Reagent ID	Parent Reagent Volume Added	Analyte	Concentration
8321EXcalprim_00006	10/21/11	03/30/11	acn, Lot K06817	10 mL	8231NG_00004	1 mL	Nitroglycerin	10 ug/mL
					8321EX-Mix_00004	0.1 mL	1,3,5-Trinitrobenzene	10.01 ug/mL
							1,3-Dinitrobenzene	10.14 ug/mL
							2,4,6-Trinitrotoluene	10.01 ug/mL
							2,4-Dinitrotoluene	10.03 ug/mL
							2,6-Dinitrotoluene	10.01 ug/mL
							2-Amino-4,6-dinitrotoluene	10.01 ug/mL
							2-Nitrotoluene	9.91 ug/mL
							3-Nitrotoluene	9.88 ug/mL
							4-Amino-2,6-dinitrotoluene	9.87 ug/mL
							4-Nitrotoluene	9.95 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	9.99 ug/mL
							RDX	9.87 ug/mL
							Tetryl	9.94 ug/mL
					8321PETN_00004	1 mL	PETN	9.98 ug/mL
.8231NG_00004	09/13/12		Accustandard, Lot 210091093		(Purchased Reagent)		Nitroglycerin	100 ug/mL
.8321EX-Mix_00004	10/21/11		AccuStandard, Lot 209101177		(Purchased Reagent)		1,3,5-Trinitrobenzene	1001 ug/mL
							1,3-Dinitrobenzene	1014 ug/mL
							2,4,6-Trinitrotoluene	1001 ug/mL
							2,4-Dinitrotoluene	1003 ug/mL
							2,6-Dinitrotoluene	1001 ug/mL
							2-Amino-4,6-dinitrotoluene	1001 ug/mL
							2-Nitrotoluene	991 ug/mL
							3-Nitrotoluene	988 ug/mL
							4-Amino-2,6-dinitrotoluene	987 ug/mL
							4-Nitrotoluene	995 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	999 ug/mL
							RDX	987 ug/mL
							Tetryl	994 ug/mL
.8321PETN_00004	04/15/12		Accustandard, Lot 210041174		(Purchased Reagent)		PETN	99.8 ug/mL
8321EXcalprim_00007	04/15/12	03/30/11	acn, Lot K06817	10 mL	8231NG_00004	1 mL	Nitroglycerin	10 ug/mL
					8321EX-Mix_00005	0.1 mL	1,3,5-Trinitrobenzene	10.01 ug/mL
							1,3-Dinitrobenzene	10.14 ug/mL
							2,4,6-Trinitrotoluene	10.01 ug/mL
							2,4-Dinitrotoluene	10.03 ug/mL
							2,6-Dinitrotoluene	10.01 ug/mL
							2-Amino-4,6-dinitrotoluene	10.01 ug/mL
							2-Nitrotoluene	9.91 ug/mL
							3-Nitrotoluene	9.88 ug/mL
							4-Amino-2,6-dinitrotoluene	9.87 ug/mL
							4-Nitrotoluene	9.95 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	9.99 ug/mL
							RDX	9.87 ug/mL
							Tetryl	9.94 ug/mL
					8321PETN_00004	1 mL	PETN	9.98 ug/mL
.8231NG_00004	09/13/12		Accustandard, Lot 210091093		(Purchased Reagent)		Nitroglycerin	100 ug/mL
.8321EX-Mix_00005	04/21/12		AccuStandard, Lot 209101177		(Purchased Reagent)		1,3,5-Trinitrobenzene	1001 ug/mL

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
							1,3-Dinitrobenzene	1014 ug/mL
							2,4,6-Trinitrotoluene	1001 ug/mL
							2,4-Dinitrotoluene	1003 ug/mL
							2,6-Dinitrotoluene	1001 ug/mL
							2-Amino-4,6-dinitrotoluene	1001 ug/mL
							2-Nitrotoluene	991 ug/mL
							3-Nitrotoluene	988 ug/mL
							4-Amino-2,6-dinitrotoluene	987 ug/mL
							4-Nitrotoluene	995 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	999 ug/mL
							RDX	987 ug/mL
							Tetryl	994 ug/mL
.8321PETN_00004	04/15/12		Accustandard, Lot 210041174		(Purchased Reagent)		PETN	99.8 ug/mL
8321expICV_00005	12/22/11	03/30/11	acn:0.1%HAC, Lot K06817	10 mL	EXP-SS-MIX_00003	100 uL	2,6-Dinitrotoluene	10 ug/mL
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							Tetryl	10 ug/mL
					EXP-SS-MIX1_00003	100 uL	1,3,5-Trinitrobenzene	9.99992 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 ug/mL
							2,4-Dinitrotoluene	9.99992 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
					EXP-SS-NG_00004	100 uL	Nitroglycerin	10 ug/mL
					EXP-SS-PETN_00003	100 uL	PETN	10 ug/mL
.EXP-SS-MIX_00003	12/22/11		Restek, Lot A060936		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.EXP-SS-MIX1_00003	12/22/11		Restek, Lot A057253		(Purchased Reagent)		1,3,5-Trinitrobenzene	999.992 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	999.992 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.EXP-SS-NG_00004	12/22/11		Restek, Lot A067062		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.EXP-SS-PETN_00003	12/22/11		Restek, Lot A067064		(Purchased Reagent)		PETN	1000 ug/mL
8321ExplosLCS_00010	04/13/12	10/13/11	Acetonitrile, Lot K27815	250 mL	8330 LCSMix2_00035	1 mL	2,6-Dinitrotoluene	4 ug/mL
							2-Amino-4,6-dinitrotoluene	4 ug/mL
							2-Nitrotoluene	4 ug/mL

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitrotoluene	4 ug/mL
							4-Amino-2,6-dinitrotoluene	4 ug/mL
							4-Nitrotoluene	4 ug/mL
							Tetryl	4 ug/mL
					8330LCSMix1_00036	1 mL	1,3,5-Trinitrobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							2,4,6-Trinitrotoluene	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							HMX	4 ug/mL
							Nitrobenzene	4 ug/mL
							RDX	4 ug/mL
					NG&PETNRestek_00017	0.1 mL	Nitroglycerin	4 ug/mL
							PETN	4 ug/mL
					PicricARestek_00016	0.1 mL	2,4,6-Trinitrophenol	0.4 ug/mL
.8330 LCSMix2_00035	09/30/14		Restek, Lot A069852		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.8330LCSMix1_00036	08/31/13		Restek, Lot A062123		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.NG&PETNRestek_00017	01/13/14		Restek, Lot A079120		(Purchased Reagent)		Nitroglycerin	10000 ug/mL
							PETN	10000 ug/mL
.PicricARestek_00016	02/28/16		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
8321ExplosSur_00016	01/18/12	10/20/11	Acetonitrile, Lot K18824	200 mL	8321NB-D5-1_00004	66 uL	Nitrobenzene-d5	3.95307 ug/mL
.8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
..8321NB-D5_00002	01/20/16		Cambridge Isotope, Lot PR-20474/06199NB1		(Purchased Reagent)		Nitrobenzene-d5	99 %
8321ExplosSur_00017	01/18/12	10/25/11	Acetonitrile, Lot K18824	200 mL	8321NB-D5-1_00004	66 uL	Nitrobenzene-d5	3.95307 ug/mL
.8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
..8321NB-D5_00002	01/20/16		Cambridge Isotope, Lot PR-20474/06199NB1		(Purchased Reagent)		Nitrobenzene-d5	99 %
8321NB-D5-cal_00003	01/18/12	01/19/11	ACN, Lot j48808	10 mL	8321NB-D5-2_00003	1 mL	Nitrobenzene-d5	10.0025 ug/mL
.8321NB-D5-2_00003	01/18/12	01/19/11	ACN, Lot j48808	10 mL	8321NB-D5-1_00004	0.0835 mL	Nitrobenzene-d5	100.025 ug/mL
..8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
...8321NB-D5_00002	01/20/16		Cambridge Isotope, Lot PR-20474/06199NB1		(Purchased Reagent)		Nitrobenzene-d5	99 %
8330 GrindLCS_00067	09/30/12		Wibby, Lot B20110906		(Purchased Reagent)		1,3,5-Trinitrobenzene	600 ug/Kg
							1,3-Dinitrobenzene	602 ug/Kg
							2,4,6-Trinitrotoluene	600 ug/Kg
							2,4-Dinitrotoluene	600 ug/Kg
							2,6-Dinitrotoluene	6[illegible] ug/Kg

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
							2-Amino-4,6-dinitrotoluene	600 ug/Kg
							2-Nitrotoluene	604 ug/Kg
							3-Nitrotoluene	599 ug/Kg
							4-Amino-2,6-dinitrotoluene	600 ug/Kg
							4-Nitrotoluene	603 ug/Kg
							HMX	600 ug/Kg
							Nitrobenzene	602 ug/Kg
							Nitroglycerin	600 ug/Kg
							PETN	600 ug/Kg
							RDX	600 ug/Kg
DupontDNTCal_00004	03/01/12	03/16/11	ACN, Lot J48808	10 mL	3,5-dnt stock_00009	0.1 mL	3,5-Dinitrotoluene	10 ug/mL
					Dupont Stock_00002	1 mL	2,3-Dinitrotoluene	9.99791 ug/mL
							3,4-Dinitrotoluene	10.004 ug/mL
.3,5-dnt stock_00009	07/09/20	Accustandard, Lot 210071094			(Purchased Reagent)		3,5-Dinitrotoluene	1000 ug/mL
.Dupont Stock_00002	03/01/12	03/01/11	Acetonitrile, Lot H48808	10 mL	2,3-DNT Prim_00004	229 uL	2,3-Dinitrotoluene	99.9791 ug/mL
					3,4-DNT Prim_00002	235 uL	3,4-Dinitrotoluene	100.04 ug/mL
..2,3-DNT Prim_00004	03/01/12	03/01/11	Acetonitrile, Lot H48808	10 mL	2,3DNT Neat_00001	0.0441 g	2,3-Dinitrotoluene	4365.9 ug/mL
...2,3DNT Neat_00001	10/30/12	Sigma-Aldrich, Lot 2080x			(Purchased Reagent)		2,3-Dinitrotoluene	0.99 g/g
..3,4-DNT Prim_00002	03/01/12	03/01/12	Acetonitrile, Lot H48808	10 mL	3,4-DNT Neat_00001	0.043 g	3,4-Dinitrotoluene	4257 ug/mL
...3,4-DNT Neat_00001	10/30/12	Aldrich, Lot 05713ca			(Purchased Reagent)		3,4-Dinitrotoluene	0.99 g/g
EXPWORKINGIS_00027	12/28/11	10/13/11	Acetonitrile, Lot K18824	10 mL	83212,4DNTIS_00004	0.125 mL	2,4-dinitrotoluene-d3	12.5 ug/mL
					8321HMX13C4IS_00008	0.125 mL	HMX-13C4	12.5 ug/mL
					8321RDX13C3IS_00004	0.125 mL	Hexahydro-1,3,5-trinitro-1,3,5 -triazine 13C3	12.5 ug/mL
					EXPDNBD4IS_00004	0.02 mL	1,3-Dinitrobenzene-d4	12.936 ug/mL
.83212,4DNTIS_00004	05/19/12	Cambridge Isotope, Lot SCBD-008			(Purchased Reagent)		2,4-dinitrotoluene-d3	1000 mg/L
.8321HMX13C4IS_00008	09/11/16	Cambridge Isotope, Lot SCGF-021			(Purchased Reagent)		HMX-13C4	1000 mg/L
.8321RDX13C3IS_00004	03/31/18	Cambridge Isotope, Lot SCIC-005			(Purchased Reagent)		Hexahydro-1,3,5-trinitro-1,3,5 -triazine 13C3	1000 mg/L
.EXPDNBD4IS_00004	12/28/11	12/28/10	Acetonitrile, Lot h38619	10 mL	832113DNBD4IS_00002	0.066 g	1,3-Dinitrobenzene-d4	6468 ug/mL
..832113DNBD4IS_00002	01/16/14	Cambridge Isotope, Lot P-6201			(Purchased Reagent)		1,3-Dinitrobenzene-d4	98 %
MS CAL DAILY_00458	11/08/11	11/07/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
.MS CALSTD-1_00049	09/01/12	Inorganic Ventures, Lot D2-MEB358015			(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12	Inorganic Ventures, Lot E2-MEB378112			(Purchased Reagent)		Antimony	20 mg/L
MS CAL DAILY_00459	11/09/11	11/08/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
.MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
MS CALSTD-1_00054	10/01/12		Inorganic Ventures, Lot E2-MEB394076		(Purchased Reagent)		Ag	20 mg/L
							As	20 mg/L
							Ba	20 mg/L
							Be	20 mg/L
							Cd	20 mg/L
							Co	20 mg/L
							Copper	20 mg/L
							Cr	20 mg/L
							Lead	20 mg/L
							Mn	20 mg/L
							Nickel	20 mg/L
							Se	20 mg/L
							Th	20 mg/L
							Tl	20 mg/L
							U	20 mg/L
							V	20 mg/L
							Zinc	20 mg/L
MS CALSTD-2_00053	10/01/12		Inorganic Ventures, Lot E2-MEB394077		(Purchased Reagent)		Antimony	20 mg/L
							Mo	20 mg/L
							Sn	20 mg/L
MS CCV_00453	11/08/11	11/07/11	1% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.25 mL	Copper	50 ug/L
							Lead	50 ug/L
							Nickel	50 ug/L
							Zinc	50 ug/L
					MS CALSTD-2_00049	0.25 mL	Antimony	50 ug/L
.MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
MS CCV_00454	11/09/11	11/08/11	1% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.25 mL	Copper	50 ug/L
							Lead	50 ug/L
							Nickel	50 ug/L
							Zinc	50 ug/L
					MS CALSTD-2_00049	0.25 mL	Antimony	50 ug/L
.MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
MS ICSA_00451	11/08/11	11/07/11	1% HNO3, Lot K23022	50 mL	MS ICSA STOCK_00010	5 mL	Mo	2000 ug/L
.MS ICSA STOCK_00010	10/01/12		Inorganic Ventures, Lot E2-MEB371022		(Purchased Reagent)		Mo	20 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
MS ICSA_00452	11/09/11	11/08/11	1% HNO3, Lot K23022	50 mL	MS ICSA STOCK_00010	5 mL	Mo	2000 ug/L
.MS ICSA STOCK_00010	10/01/12	Inorganic Ventures, Lot E2-MEB371022			(Purchased Reagent)		Mo	20 mg/L
MS ICSAB_00454	11/08/11	11/07/11	1% HNO3, Lot K23022	10 mL	MS CALSTD-1_00049	0.05 mL	Ag	100 ug/L
							As	100 ug/L
							Ba	100 ug/L
							Be	100 ug/L
							Cd	100 ug/L
							Co	100 ug/L
							Copper	100 ug/L
							Cr	100 ug/L
							Lead	100 ug/L
							Mn	100 ug/L
							Nickel	100 ug/L
							Se	100 ug/L
							Tl	100 ug/L
							U	100 ug/L
							V	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.05 mL	Antimony	100 ug/L
							Mo	2100 ug/L
							Sn	100 ug/L
					MS ICSA STOCK_00010	1 mL	Mo	2100 ug/L
.MS CALSTD-1_00049	09/01/12	Inorganic Ventures, Lot D2-MEB358015			(Purchased Reagent)		Ag	20 mg/L
							As	20 mg/L
							Ba	20 mg/L
							Be	20 mg/L
							Cd	20 mg/L
							Co	20 mg/L
							Copper	20 mg/L
							Cr	20 mg/L
							Lead	20 mg/L
							Mn	20 mg/L
							Nickel	20 mg/L
							Se	20 mg/L
							Tl	20 mg/L
							U	20 mg/L
							V	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12	Inorganic Ventures, Lot E2-MEB378112			(Purchased Reagent)		Antimony	20 mg/L
							Mo	20 mg/L
							Sn	20 mg/L
.MS ICSA STOCK_00010	10/01/12	Inorganic Ventures, Lot E2-MEB371022			(Purchased Reagent)		Mo	20 mg/L
MS ICSAB_00455	11/09/11	11/08/11	1% HNO3, Lot K23022	10 mL	MS CALSTD-1_00049	0.05 mL	Ag	100 ug/L
							As	100 ug/L
							Ba	100 ug/L
							Be	100 ug/L
							Cd	100 ug/L
							Co	100 ug/L
							Copper	100 ug/L
							Cr	100 ug/L

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
							Lead	100 ug/L
							Mn	100 ug/L
							Nickel	100 ug/L
							Se	100 ug/L
							Tl	100 ug/L
							U	100 ug/L
							V	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.05 mL	Antimony	100 ug/L
							Mo	2100 ug/L
							Sn	100 ug/L
					MS ICSA STOCK_00010	1 mL	Mo	2100 ug/L
.MS CALSTD-1_00049	09/01/12	Inorganic Ventures, Lot D2-MEB358015			(Purchased Reagent)		Ag	20 mg/L
							As	20 mg/L
							Ba	20 mg/L
							Be	20 mg/L
							Cd	20 mg/L
							Co	20 mg/L
							Copper	20 mg/L
							Cr	20 mg/L
							Lead	20 mg/L
							Mn	20 mg/L
							Nickel	20 mg/L
							Se	20 mg/L
							Tl	20 mg/L
							U	20 mg/L
							V	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12	Inorganic Ventures, Lot E2-MEB378112			(Purchased Reagent)		Antimony	20 mg/L
							Mo	20 mg/L
							Sn	20 mg/L
.MS ICSA STOCK_00010	10/01/12	Inorganic Ventures, Lot E2-MEB371022			(Purchased Reagent)		Mo	20 mg/L
MS ICV_00452	11/08/11	11/07/11	1% HNO3, Lot K23022	50 mL	MS ICV-A HP_00004	0.1 mL	Copper	40 ug/L
							Lead	40 ug/L
							Nickel	40 ug/L
							Zinc	40 ug/L
					MS ICV-B HP_00003	0.1 mL	Antimony	40 ug/L
.MS ICV-A HP_00004	03/16/12	HIGH PURITY, Lot 1107415			(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS ICV-B HP_00003	03/16/12	HIGH PURITY, Lot 1107417			(Purchased Reagent)		Antimony	20 mg/L
MS ICV_00453	11/09/11	11/08/11	1% HNO3, Lot K23022	50 mL	MS ICV-A HP_00004	0.1 mL	Copper	40 ug/L
							Lead	40 ug/L
							Nickel	40 ug/L
							Zinc	40 ug/L
					MS ICV-B HP_00003	0.1 mL	Antimony	40 ug/L
.MS ICV-A HP_00004	03/16/12	HIGH PURITY, Lot 1107415			(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
							Zinc	20 mg/L
.MS ICV-B HP_00003	03/16/12		HIGH PURITY, Lot 1107417		(Purchased Reagent)		Antimony	20 mg/L
MS LCCV dly_00452	11/08/11	11/07/11	5% HNO3, Lot K23022	100 mL	MS LLCCV1_00004	1 mL	Copper	2 ug/L
							Lead	1 ug/L
							Nickel	2 ug/L
							Zinc	10 ug/L
					MS LLCCV2 IV_00004	1 mL	Antimony	2 ug/L
.MS LLCCV1_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366138		(Purchased Reagent)		Copper	0.2 mg/L
							Lead	0.1 mg/L
							Nickel	0.2 mg/L
							Zinc	1 mg/L
.MS LLCCV2 IV_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366139		(Purchased Reagent)		Antimony	0.2 mg/L
MS LCCV dly_00453	11/09/11	11/08/11	5% HNO3, Lot K23022	100 mL	MS LLCCV1_00004	1 mL	Copper	2 ug/L
							Lead	1 ug/L
							Nickel	2 ug/L
							Zinc	10 ug/L
					MS LLCCV2 IV_00004	1 mL	Antimony	2 ug/L
.MS LLCCV1_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366138		(Purchased Reagent)		Copper	0.2 mg/L
							Lead	0.1 mg/L
							Nickel	0.2 mg/L
							Zinc	1 mg/L
.MS LLCCV2 IV_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366139		(Purchased Reagent)		Antimony	0.2 mg/L
MS PDS 1 IV_00004	12/28/11		Inorganic Ventures, Lot D2-MEB357105		(Purchased Reagent)		Antimony	20 mg/L
MS PDS 2 IV_00007	10/01/12		Inorganic Ventures, Lot E2-MEB391126		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
MS RL STD_00463	11/08/11	11/07/11	1% HNO3, Lot K23022	10 mL	MS CAL DAILY_00458	0.1 mL	Copper	1 ug/L
							Lead	1 ug/L
							Nickel	1 ug/L
							Zinc	10 ug/L
							Antimony	1 ug/L
					MS Sn/Zn Mix_00005	0.09 mL	Zinc	10 ug/L
.MS CAL DAILY_00458	11/08/11	11/07/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
..MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
..MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
.MS Sn/Zn Mix_00005	12/01/11	02/16/11	5% HNO3, Lot J11046	50 mL	1000 Zn_00003	0.05 mL	Zinc	1 mg/L
..1000 Zn_00003	12/01/11		Inorganic Ventures, Lot d2-zn02065		(Purchased Reagent)		Zinc	1000 mg/L
MS RL STD_00464	11/09/11	11/08/11	1% HNO3, Lot K23022	10 mL	MS CAL DAILY_00459	0.1 mL	Copper	1 ug/L
							Lead	1 ug/L
							Nickel	[illegible]

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
							Zinc	10 ug/L
							Antimony	1 ug/L
					MS Sn/Zn Mix_00005	0.09 mL	Zinc	10 ug/L
.MS CAL DAILY_00459	11/09/11	11/08/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
..MS CALSTD-1_00049	09/01/12	Inorganic Ventures, Lot D2-MEB358015			(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
..MS CALSTD-2_00049	09/01/12	Inorganic Ventures, Lot E2-MEB378112			(Purchased Reagent)		Antimony	20 mg/L
.MS Sn/Zn Mix_00005	12/01/11	02/16/11	5% HNO3, Lot J11046	50 mL	1000 Zn_00003	0.05 mL	Zinc	1 mg/L
..1000 Zn_00003	12/01/11	Inorganic Ventures, Lot d2-zn02065			(Purchased Reagent)		Zinc	1000 mg/L

Certification Summary

Client: UXB International, Inc. TestAmerica Job ID: 280-21902-1
Project/Site: Martha's Vineyard

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8321B
Explosives

Nitroaromatics and Nitramines (LC/MS/MS) by Method 8321B

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Matrix: Solid   Level: Low

GC Column (1): IonPac   ID: 2 (mm)

Client Sample ID	Lab Sample ID	NBZ	#
TP05 SD018	280-21902-1	87	
TP06 SD019	280-21902-2	86	
TP07 SD020	280-21902-3	84	
TP08 SD021	280-21902-4	92	
TP09 SD022	280-21902-5	84	M
TP10 SD023	280-21902-6	94	M
TP11 SD024	280-21902-7	87	
TP12 SD025	280-21902-8	88	
TP13 SD026	280-21902-9	84	M
TP14 SD027	280-21902-10	77	M
TP14 SD028	280-21902-11	87	M
TP15 SD029	280-21902-12	80	M
TP16 SD030	280-21902-13	80	M
TP17 SD031	280-21902-14	85	M
TP18 SD032	280-21902-15	83	M
TP19 SD033	280-21902-16	79	
TP20 SD034	280-21902-17	81	M
TP21 SD035	280-21902-18	79	M
TP21 SD036	280-21902-19	79	M
TP01 SB128	280-21902-20	83	
TP01 SB129	280-21902-21	81	
TP01 SB130	280-21902-22	77	
TP01 SB131	280-21902-23	76	
CP27 SB052	280-21902-35	70	
CP27 SB053	280-21902-36	71	
CP22 SB040	280-21902-37	81	
CP22 SB041	280-21902-38	84	
CP25 SB048	280-21902-39	74	
CP25 SB049	280-21902-40	80	
CP24 SB046	280-21902-41	78	
CP24 SB047	280-21902-42	80	
CP26 SB050	280-21902-43	78	
CP26 SB051	280-21902-44	74	
CP21 SB038	280-21902-45	75	
CP21 SB039	280-21902-46	83	

	QC LIMITS
NBZ = Nitrobenzene-d5	68-140

Column to be used to flag recovery values

FORM II 8321B

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): IonPac ID: 2 (mm)

Client Sample ID	Lab Sample ID	NBZ	#
CP20 SB037	280-21902-47	69	
CP20 SB036	280-21902-48	82	
CP23 SB042	280-21902-50	79	
CP23 SB044	280-21902-51	77	
CP23 SB043	280-21902-52	80	
CP03 IS009	280-21902-53	77	
CP03 IS008	280-21902-54	89	
CP03 IS007	280-21902-55	87	
CP02 IS004	280-21902-56	80	
CP02 IS005	280-21902-57	76	
CP02 IS006	280-21902-58	76	
CP13 SB019	280-21902-59	76	
CP13 SB021	280-21902-60	77	
CP13 SB020	280-21902-61	82	
CP14 SB023	280-21902-63	75	
CP14 SB024	280-21902-64	84	
CP18 SB031	280-21902-65	88	
CP18 SB032	280-21902-66	86	
CP18 SB033	280-21902-67	77	
CP15 SB025	280-21902-68	83	
CP15 SB026	280-21902-69	80	
CP16 SB027	280-21902-70	80	
CP16 SB028	280-21902-71	79	
CP19 SB034	280-21902-72	80	
CP19 SB035	280-21902-73	82	
CP17 SB029	280-21902-74	84	
CP17 SB030	280-21902-75	95	
	MB 280-92995/1-A	74	
	MB 280-93019/1-A	75	
	MB 280-93507/1-A	87	
	MB 280-93548/1-A	82	
	GB 280-92116/1-B	86	
	LCS 280-92995/2-A	78	
	LCS 280-93019/2-A	105	

	QC LIMITS
NBZ = Nitrobenzene-d5	68-140

Column to be used to flag recovery values

FORM II 8321B

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): IonPac ID: 2 (mm)

Client Sample ID	Lab Sample ID	NBZ	#
	LCS 280-93507/2-A	110	
	LCS 280-93548/2-A	90	
	LCSSRM 280-92116/2-B	85	
TP11 SD024 MS	280-21902-7 MS	103	
TP01 SB130 MS	280-21902-22 MS	78	
CP23 SB043 MS	280-21902-52 MS	78	
CP02 IS006 MS	280-21902-58 MS	74	
CP13 SB020 MS	280-21902-61 MS	79	
TP11 SD024 MSD	280-21902-7 MSD	82	
TP01 SB130 MSD	280-21902-22 MSD	83	
CP23 SB043 MSD	280-21902-52 MSD	79	
CP02 IS006 MSD	280-21902-58 MSD	77	
CP13 SB020 MSD	280-21902-61 MSD	78	

	QC LIMITS
NBZ = Nitrobenzene-d5	68-140

Column to be used to flag recovery values

FORM II 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21752.d

Lab ID: LCS 280-92995/2-A   Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.393	0.341	87	45-142	
1,3-Dinitrobenzene	0.393	0.355	90	74-130	
2,4,6-Trinitrotoluene	0.393	0.276	70	60-135	
2,4-Dinitrotoluene	0.393	0.363	92	63-130	
2,6-Dinitrotoluene	0.393	0.346	88	65-133	
2-Amino-4,6-dinitrotoluene	0.393	0.393	100	51-148	
2-Nitrotoluene	0.393	0.348	88	59-150	
3-Nitrotoluene	0.393	0.368	93	56-154	
4-Amino-2,6-dinitrotoluene	0.393	0.358	91	60-141	
4-Nitrotoluene	0.393	0.341	87	72-145	
HMX	0.393	0.342	87	48-131	
Nitrobenzene	0.393	0.365	93	70-140	
Nitroglycerin	0.393	0.324	82	27-146	
PETN	0.393	0.380	97	31-171	
RDX	0.393	0.378	96	69-130	
Tetryl	0.393	0.288	73	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21835.d

Lab ID: LCS 280-93019/2-A   Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.400	0.372	93	45-142	
1,3-Dinitrobenzene	0.400	0.409	102	74-130	
2,4,6-Trinitrotoluene	0.400	0.296	74	60-135	
2,4-Dinitrotoluene	0.400	0.410	103	63-130	
2,6-Dinitrotoluene	0.400	0.414	104	65-133	
2-Amino-4,6-dinitrotoluene	0.400	0.476	119	51-148	
2-Nitrotoluene	0.400	0.478	120	59-150	
3-Nitrotoluene	0.400	0.456	114	56-154	
4-Amino-2,6-dinitrotoluene	0.400	0.462	116	60-141	
4-Nitrotoluene	0.400	0.465	116	72-145	
HMX	0.400	0.372	93	48-131	
Nitrobenzene	0.400	0.387	97	70-140	
Nitroglycerin	0.400	0.330	82	27-146	
PETN	0.400	0.491	123	31-171	
RDX	0.400	0.425	106	69-130	
Tetryl	0.400	0.310	77	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41J21836.d

Lab ID: LCS 280-93507/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.371	0.366	99	45-142	
1,3-Dinitrobenzene	0.371	0.371	100	74-130	
2,4,6-Trinitrotoluene	0.371	0.231	62	60-135	
2,4-Dinitrotoluene	0.371	0.414	112	63-130	
2,6-Dinitrotoluene	0.371	0.403	109	65-133	
2-Amino-4,6-dinitrotoluene	0.371	0.473	128	51-148	
2-Nitrotoluene	0.371	0.442	119	59-150	
3-Nitrotoluene	0.371	0.475	128	56-154	
4-Amino-2,6-dinitrotoluene	0.371	0.473	128	60-141	
4-Nitrotoluene	0.371	0.456	123	72-145	
HMX	0.371	0.335	90	48-131	
Nitrobenzene	0.371	0.344	93	70-140	
Nitroglycerin	0.371	0.336	91	27-146	
PETN	0.371	0.453	122	31-171	
RDX	0.371	0.375	101	69-130	
Tetryl	0.371	0.242	65	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21642.d

Lab ID: LCS 280-93548/2-A   Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.397	0.305	77	45-142	
1,3-Dinitrobenzene	0.397	0.425	107	74-130	
2,4,6-Trinitrotoluene	0.397	0.244	61	60-135	
2,4-Dinitrotoluene	0.397	0.416	105	63-130	
2,6-Dinitrotoluene	0.397	0.369	93	65-133	
2-Amino-4,6-dinitrotoluene	0.397	0.485	122	51-148	
2-Nitrotoluene	0.397	0.396	100	59-150	
3-Nitrotoluene	0.397	0.392	99	56-154	
4-Amino-2,6-dinitrotoluene	0.397	0.420	106	60-141	
4-Nitrotoluene	0.397	0.385	97	72-145	
HMX	0.397	0.369	93	48-131	
Nitrobenzene	0.397	0.378	95	70-140	
Nitroglycerin	0.397	0.413	104	27-146	
PETN	0.397	0.486	122	31-171	
RDX	0.397	0.417	105	69-130	
Tetryl	0.397	0.222	56	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LCS-CERTIFIED REFERENCE MATERIAL RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21644.d

Lab ID: LCSSRM 280-92116/2-B   Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCSSRM CONCENTRATION (mg/Kg)	LCSSR % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.600	0.578	96	58-116	
1,3-Dinitrobenzene	0.602	0.610	101	69-116	
2,4,6-Trinitrotoluene	0.600	0.610	102	69-120	
2,4-Dinitrotoluene	0.600	0.581	97	69-137	
2,6-Dinitrotoluene	0.602	0.536	89	60-121	
2-Amino-4,6-dinitrotoluene	0.600	0.547	91	56-108	
2-Nitrotoluene	0.604	0.563	93	67-117	
3-Nitrotoluene	0.599	0.512	85	69-124	
4-Amino-2,6-dinitrotoluene	0.600	0.518	86	46-98	
4-Nitrotoluene	0.603	0.530	88	51-143	
HMX	0.600	0.568	95	59-131	
Nitrobenzene	0.602	0.496	82	58-119	
Nitroglycerin	0.600	0.549	91	60-115	
PETN	0.600	0.634	106	60-115	
RDX	0.600	0.517	86	62-123	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41J21838.d

Lab ID: 280-21902-7 MS Client ID: TP11 SD024 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.385	0.025 U	0.343	89	45-142	
1,3-Dinitrobenzene	0.385	0.012 U	0.385	100	74-130	
2,4,6-Trinitrotoluene	0.385	0.012 U	0.246	64	60-135	
2,4-Dinitrotoluene	0.385	0.012 U	0.382	99	63-130	
2,6-Dinitrotoluene	0.385	0.025 U	0.356	93	65-133	
2-Amino-4,6-dinitrotoluene	0.385	0.025 U	0.441	115	51-148	
2-Nitrotoluene	0.385	0.012 U	0.385	100	59-150	
3-Nitrotoluene	0.385	0.025 U	0.363	94	56-154	
4-Amino-2,6-dinitrotoluene	0.385	0.012 U	0.404	105	60-141	
4-Nitrotoluene	0.385	0.025 U	0.359	93	72-145	
HMX	0.385	0.012 U	0.320	83	48-131	
Nitrobenzene	0.385	0.012 U	0.384	100	70-140	
Nitroglycerin	0.385	0.012 U	0.316	82	27-146	
PETN	0.385	0.012 U	0.398	104	31-171	
RDX	0.385	0.012 U	0.385	100	69-130	
Tetryl	0.385	0.012 U	0.236	61	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41J21755.d

Lab ID: 280-21902-22 MS Client ID: TP01 SB130 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.386	0.024 U	0.310	80	45-142	
1,3-Dinitrobenzene	0.386	0.012 U	0.357	92	74-130	
2,4,6-Trinitrotoluene	0.386	0.012 U	0.257	67	60-135	
2,4-Dinitrotoluene	0.386	0.012 U	0.347	90	63-130	
2,6-Dinitrotoluene	0.386	0.024 U	0.329	85	65-133	
2-Amino-4,6-dinitrotoluene	0.386	0.024 U	0.393	102	51-148	
2-Nitrotoluene	0.386	0.012 U	0.344	89	59-150	
3-Nitrotoluene	0.386	0.024 U	0.342	89	56-154	
4-Amino-2,6-dinitrotoluene	0.386	0.012 U	0.325	84	60-141	
4-Nitrotoluene	0.386	0.024 U	0.329	85	72-145	
HMX	0.386	0.012 U	0.327	85	48-131	
Nitrobenzene	0.386	0.012 U	0.327	84	70-140	
Nitroglycerin	0.386	0.012 U	0.325	84	27-146	
PETN	0.386	0.012 U	0.381	99	31-171	
RDX	0.386	0.012 U	0.362	94	69-130	
Tetryl	0.386	0.012 U	0.239	62	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41J21781.d

Lab ID: 280-21902-52 MS Client ID: CP23 SB043 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.371	0.025 U	0.326	88	45-142	
1,3-Dinitrobenzene	0.371	0.012 U	0.337	91	74-130	
2,4,6-Trinitrotoluene	0.371	0.012 U	0.254	69	60-135	
2,4-Dinitrotoluene	0.371	0.012 U	0.338	91	63-130	
2,6-Dinitrotoluene	0.371	0.025 U	0.314	85	65-133	
2-Amino-4,6-dinitrotoluene	0.371	0.025 U	0.394	106	51-148	
2-Nitrotoluene	0.371	0.012 U	0.324	87	59-150	
3-Nitrotoluene	0.371	0.025 U	0.344	93	56-154	
4-Amino-2,6-dinitrotoluene	0.371	0.012 U	0.327	88	60-141	
4-Nitrotoluene	0.371	0.025 U	0.325	88	72-145	
HMX	0.371	0.012 U	0.321	87	48-131	
Nitrobenzene	0.371	0.012 U	0.348	94	70-140	
Nitroglycerin	0.371	0.012 U	0.327	88	27-146	
PETN	0.371	0.012 U	0.386	104	31-171	
RDX	0.371	0.012 U	0.334	90	69-130	
Tetryl	0.371	0.012 U	0.259	70	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41J21658.d

Lab ID: 280-21902-58 MS Client ID: CP02 IS006 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.384	0.024 U	0.250	65	45-142	
1,3-Dinitrobenzene	0.384	0.012 U	0.321	84	74-130	
2,4,6-Trinitrotoluene	0.384	0.012 U	0.181	47	60-135	J
2,4-Dinitrotoluene	0.384	0.012 U	0.352	92	63-130	
2,6-Dinitrotoluene	0.384	0.024 U	0.293	76	65-133	
2-Amino-4,6-dinitrotoluene	0.384	0.024 U	0.328	85	51-148	
2-Nitrotoluene	0.384	0.012 U	0.316	82	59-150	
3-Nitrotoluene	0.384	0.024 U	0.310	81	56-154	
4-Amino-2,6-dinitrotoluene	0.384	0.012 U	0.305	79	60-141	
4-Nitrotoluene	0.384	0.024 U	0.298	78	72-145	
HMX	0.384	0.012 U	0.301	78	48-131	
Nitrobenzene	0.384	0.012 U	0.308	80	70-140	
Nitroglycerin	0.384	0.012 U	0.283	74	27-146	
PETN	0.384	0.012 U	0.309	81	31-171	
RDX	0.384	0.012 U	0.361	94	69-130	
Tetryl	0.384	0.012 U	0.158	41	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21786.d

Lab ID: 280-21902-61 MS   Client ID: CP13 SB020 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.387	0.023 U	0.304	79	45-142	
1,3-Dinitrobenzene	0.387	0.011 U	0.361	93	74-130	
2,4,6-Trinitrotoluene	0.387	0.011 U	0.252	65	60-135	
2,4-Dinitrotoluene	0.387	0.011 U	0.356	92	63-130	
2,6-Dinitrotoluene	0.387	0.023 U	0.334	86	65-133	
2-Amino-4,6-dinitrotoluene	0.387	0.023 U	0.373	96	51-148	
2-Nitrotoluene	0.387	0.011 U	0.365	94	59-150	
3-Nitrotoluene	0.387	0.023 U	0.335	86	56-154	
4-Amino-2,6-dinitrotoluene	0.387	0.011 U	0.328	85	60-141	
4-Nitrotoluene	0.387	0.023 U	0.327	84	72-145	
HMX	0.387	0.011 U	0.307	79	48-131	
Nitrobenzene	0.387	0.011 U	0.346	89	70-140	
Nitroglycerin	0.387	0.011 U	0.309	80	27-146	
PETN	0.387	0.011 U	0.406	105	31-171	
RDX	0.387	0.011 U	0.359	93	69-130	
Tetryl	0.387	0.011 U	0.231	60	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21839.d

Lab ID: 280-21902-7 MSD   Client ID: TP11 SD024 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.375	0.316	84	8	70	45-142	
1,3-Dinitrobenzene	0.375	0.348	93	10	25	74-130	
2,4,6-Trinitrotoluene	0.375	0.221	59	11	25	60-135	J
2,4-Dinitrotoluene	0.375	0.348	93	9	25	63-130	
2,6-Dinitrotoluene	0.375	0.335	89	6	25	65-133	
2-Amino-4,6-dinitrotoluene	0.375	0.420	112	5	25	51-148	
2-Nitrotoluene	0.375	0.367	98	5	45	59-150	
3-Nitrotoluene	0.375	0.373	100	3	25	56-154	
4-Amino-2,6-dinitrotoluene	0.375	0.373	99	8	48	60-141	
4-Nitrotoluene	0.375	0.316	84	13	25	72-145	
HMX	0.375	0.283	76	12	25	48-131	
Nitrobenzene	0.375	0.344	92	11	25	70-140	
Nitroglycerin	0.375	0.267	71	17	92	27-146	
PETN	0.375	0.358	96	11	40	31-171	
RDX	0.375	0.345	92	11	25	69-130	
Tetryl	0.375	0.214	57	10	50	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41J21756.d

Lab ID: 280-21902-22 MSD Client ID: TP01 SB130 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.384	0.341	89	10	70	45-142	
1,3-Dinitrobenzene	0.384	0.355	92	1	25	74-130	
2,4,6-Trinitrotoluene	0.384	0.266	69	3	25	60-135	
2,4-Dinitrotoluene	0.384	0.396	103	13	25	63-130	
2,6-Dinitrotoluene	0.384	0.345	90	5	25	65-133	
2-Amino-4,6-dinitrotoluene	0.384	0.382	100	3	25	51-148	
2-Nitrotoluene	0.384	0.386	101	12	45	59-150	
3-Nitrotoluene	0.384	0.388	101	13	25	56-154	
4-Amino-2,6-dinitrotoluene	0.384	0.326	85	0	48	60-141	
4-Nitrotoluene	0.384	0.373	97	13	25	72-145	
HMX	0.384	0.311	81	5	25	48-131	
Nitrobenzene	0.384	0.349	91	7	25	70-140	
Nitroglycerin	0.384	0.296	77	9	92	27-146	
PETN	0.384	0.416	108	9	40	31-171	
RDX	0.384	0.369	96	2	25	69-130	
Tetryl	0.384	0.266	69	10	50	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41J21782.d

Lab ID: 280-21902-52 MSD Client ID: CP23 SB043 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.380	0.325	86	0	70	45-142	
1,3-Dinitrobenzene	0.380	0.357	94	6	25	74-130	
2,4,6-Trinitrotoluene	0.380	0.253	67	1	25	60-135	
2,4-Dinitrotoluene	0.380	0.328	87	3	25	63-130	
2,6-Dinitrotoluene	0.380	0.328	86	4	25	65-133	
2-Amino-4,6-dinitrotoluene	0.380	0.433	114	9	25	51-148	
2-Nitrotoluene	0.380	0.367	97	12	45	59-150	
3-Nitrotoluene	0.380	0.373	98	8	25	56-154	
4-Amino-2,6-dinitrotoluene	0.380	0.370	97	12	48	60-141	
4-Nitrotoluene	0.380	0.364	96	12	25	72-145	
HMX	0.380	0.346	91	8	25	48-131	
Nitrobenzene	0.380	0.334	88	4	25	70-140	
Nitroglycerin	0.380	0.308	81	6	92	27-146	
PETN	0.380	0.386	102	0	40	31-171	
RDX	0.380	0.349	92	5	25	69-130	
Tetryl	0.380	0.249	66	4	50	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21659.d

Lab ID: 280-21902-58 MSD   Client ID: CP02 IS006 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.394	0.296	75	17	70	45-142	
1,3-Dinitrobenzene	0.394	0.335	85	4	25	74-130	
2,4,6-Trinitrotoluene	0.394	0.191	48	6	25	60-135	J
2,4-Dinitrotoluene	0.394	0.346	88	2	25	63-130	
2,6-Dinitrotoluene	0.394	0.354	90	19	25	65-133	
2-Amino-4,6-dinitrotoluene	0.394	0.359	91	9	25	51-148	
2-Nitrotoluene	0.394	0.355	90	12	45	59-150	
3-Nitrotoluene	0.394	0.340	86	9	25	56-154	
4-Amino-2,6-dinitrotoluene	0.394	0.333	84	9	48	60-141	
4-Nitrotoluene	0.394	0.314	80	5	25	72-145	
HMX	0.394	0.324	82	7	25	48-131	
Nitrobenzene	0.394	0.307	78	0	25	70-140	
Nitroglycerin	0.394	0.322	82	13	92	27-146	
PETN	0.394	0.367	93	17	40	31-171	
RDX	0.394	0.365	92	1	25	69-130	
Tetryl	0.394	0.165	42	4	50	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41J21787.d

Lab ID: 280-21902-61 MSD   Client ID: CP13 SB020 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.398	0.314	79	3	70	45-142	
1,3-Dinitrobenzene	0.398	0.349	88	3	25	74-130	
2,4,6-Trinitrotoluene	0.398	0.240	60	5	25	60-135	
2,4-Dinitrotoluene	0.398	0.357	90	0	25	63-130	
2,6-Dinitrotoluene	0.398	0.347	87	4	25	65-133	
2-Amino-4,6-dinitrotoluene	0.398	0.372	93	0	25	51-148	
2-Nitrotoluene	0.398	0.386	97	6	45	59-150	
3-Nitrotoluene	0.398	0.375	94	11	25	56-154	
4-Amino-2,6-dinitrotoluene	0.398	0.366	92	11	48	60-141	
4-Nitrotoluene	0.398	0.368	92	12	25	72-145	
HMX	0.398	0.312	78	1	25	48-131	
Nitrobenzene	0.398	0.328	82	5	25	70-140	
Nitroglycerin	0.398	0.351	88	13	92	27-146	
PETN	0.398	0.412	103	1	40	31-171	
RDX	0.398	0.376	95	5	25	69-130	
Tetryl	0.398	0.219	55	5	50	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab File ID: ex41J21751.d Lab Sample ID: MB 280-92995/1-A

Matrix: Solid Date Extracted: 10/25/2011 19:45

Instrument ID: LC_LCMS4 Date Analyzed: 11/03/2011 12:02

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-92995/2-A	ex41J21752.d	11/03/2011 12:16
TP01 SB129	280-21902-21	ex41J21753.d	11/03/2011 12:30
TP01 SB130	280-21902-22	ex41J21754.d	11/03/2011 12:44
TP01 SB130 MS	280-21902-22 MS	ex41J21755.d	11/03/2011 12:57
TP01 SB130 MSD	280-21902-22 MSD	ex41J21756.d	11/03/2011 13:11
TP01 SB131	280-21902-23	ex41J21757.d	11/03/2011 13:24
CP27 SB052	280-21902-35	ex41J21758.d	11/03/2011 13:38
CP27 SB053	280-21902-36	ex41J21760.d	11/03/2011 14:06
CP22 SB040	280-21902-37	ex41J21761.d	11/03/2011 14:19
CP22 SB041	280-21902-38	ex41J21762.d	11/03/2011 14:33
CP25 SB048	280-21902-39	ex41J21763.d	11/03/2011 14:47
CP25 SB049	280-21902-40	ex41J21764.d	11/03/2011 15:00
CP24 SB046	280-21902-41	ex41J21765.d	11/03/2011 15:15
CP24 SB047	280-21902-42	ex41J21766.d	11/03/2011 15:28
CP26 SB050	280-21902-43	ex41J21767.d	11/03/2011 15:42
CP26 SB051	280-21902-44	ex41J21769.d	11/03/2011 16:09
CP21 SB038	280-21902-45	ex41J21770.d	11/03/2011 16:23
CP21 SB039	280-21902-46	ex41J21771.d	11/03/2011 16:36
CP20 SB037	280-21902-47	ex41J21772.d	11/03/2011 16:50
CP20 SB036	280-21902-48	ex41J21773.d	11/03/2011 17:04
CP23 SB042	280-21902-50	ex41J21775.d	11/03/2011 17:31
CP23 SB044	280-21902-51	ex41J21776.d	11/03/2011 17:44

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Lab File ID: ex41J21778.d   Lab Sample ID: MB 280-93019/1-A

Matrix: Solid   Date Extracted: 10/25/2011 19:45

Instrument ID: LC_LCMS4   Date Analyzed: 11/03/2011 18:12

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
CP23 SB043	280-21902-52	ex41J21780.d	11/03/2011 18:39
CP23 SB043 MS	280-21902-52 MS	ex41J21781.d	11/03/2011 18:53
CP23 SB043 MSD	280-21902-52 MSD	ex41J21782.d	11/03/2011 19:06
CP13 SB019	280-21902-59	ex41J21783.d	11/03/2011 19:20
CP13 SB021	280-21902-60	ex41J21784.d	11/03/2011 19:33
CP13 SB020	280-21902-61	ex41J21785.d	11/03/2011 19:47
CP13 SB020 MS	280-21902-61 MS	ex41J21786.d	11/03/2011 20:01
CP13 SB020 MSD	280-21902-61 MSD	ex41J21787.d	11/03/2011 20:14
CP14 SB023	280-21902-63	ex41J21792.d	11/03/2011 21:23
CP14 SB024	280-21902-64	ex41J21793.d	11/03/2011 21:36
CP18 SB031	280-21902-65	ex41J21794.d	11/03/2011 21:50
CP18 SB032	280-21902-66	ex41J21795.d	11/03/2011 22:04
CP18 SB033	280-21902-67	ex41J21796.d	11/03/2011 22:17
CP15 SB025	280-21902-68	ex41J21798.d	11/03/2011 22:44
CP15 SB026	280-21902-69	ex41J21799.d	11/03/2011 22:58
CP16 SB027	280-21902-70	ex41J21800.d	11/03/2011 23:11
CP16 SB028	280-21902-71	ex41J21801.d	11/03/2011 23:25
CP19 SB034	280-21902-72	ex41J21802.d	11/03/2011 23:39
CP19 SB035	280-21902-73	ex41J21803.d	11/03/2011 23:52
CP17 SB029	280-21902-74	ex41J21804.d	11/04/2011 00:06
CP17 SB030	280-21902-75	ex41J21805.d	11/04/2011 00:19
	LCS 280-93019/2-A	ex41J21835.d	11/04/2011 07:10

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Lab File ID: ex41J21807.d   Lab Sample ID: MB 280-93507/1-A

Matrix: Solid   Date Extracted: 10/27/2011 18:25

Instrument ID: LC_LCMS4   Date Analyzed: 11/04/2011 00:46

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TP05 SD018	280-21902-1	ex41J21809.d	11/04/2011 01:14
TP06 SD019	280-21902-2	ex41J21810.d	11/04/2011 01:27
TP07 SD020	280-21902-3	ex41J21811.d	11/04/2011 01:41
TP08 SD021	280-21902-4	ex41J21812.d	11/04/2011 01:55
TP09 SD022	280-21902-5	ex41J21813.d	11/04/2011 02:08
TP10 SD023	280-21902-6	ex41J21814.d	11/04/2011 02:22
TP12 SD025	280-21902-8	ex41J21819.d	11/04/2011 03:30
TP13 SD026	280-21902-9	ex41J21820.d	11/04/2011 03:44
TP14 SD027	280-21902-10	ex41J21821.d	11/04/2011 03:57
TP14 SD028	280-21902-11	ex41J21822.d	11/04/2011 04:11
TP15 SD029	280-21902-12	ex41J21823.d	11/04/2011 04:24
TP16 SD030	280-21902-13	ex41J21825.d	11/04/2011 04:52
TP17 SD031	280-21902-14	ex41J21826.d	11/04/2011 05:06
TP18 SD032	280-21902-15	ex41J21827.d	11/04/2011 05:19
TP19 SD033	280-21902-16	ex41J21828.d	11/04/2011 05:33
TP20 SD034	280-21902-17	ex41J21829.d	11/04/2011 05:46
TP21 SD035	280-21902-18	ex41J21830.d	11/04/2011 06:00
TP21 SD036	280-21902-19	ex41J21831.d	11/04/2011 06:13
TP01 SB128	280-21902-20	ex41J21832.d	11/04/2011 06:28
	LCS 280-93507/2-A	ex41J21836.d	11/04/2011 07:23
TP11 SD024	280-21902-7	ex41J21837.d	11/04/2011 07:37
TP11 SD024 MS	280-21902-7 MS	ex41J21838.d	11/04/2011 07:51

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Lab File ID: ex41J21807.d   Lab Sample ID: MB 280-93507/1-A

Matrix: Solid   Date Extracted: 10/27/2011 18:25

Instrument ID: LC_LCMS4   Date Analyzed: 11/04/2011 00:46

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TP11 SD024 MSD	280-21902-7 MSD	ex41J21839.d	11/04/2011 08:05

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Lab File ID: ex41J21641.d   Lab Sample ID: MB 280-93548/1-A

Matrix: Solid   Date Extracted: 10/27/2011 22:10

Instrument ID: LC_LCMS4   Date Analyzed: 11/02/2011 05:42

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-93548/2-A	ex41J21642.d	11/02/2011 05:55
	GB 280-92116/1-B	ex41J21643.d	11/02/2011 06:09
	LCSSRM 280-92116/2-B	ex41J21644.d	11/02/2011 06:23
CP03 IS009	280-21902-53	ex41J21652.d	11/02/2011 08:11
CP03 IS008	280-21902-54	ex41J21653.d	11/02/2011 08:25
CP03 IS007	280-21902-55	ex41J21654.d	11/02/2011 08:39
CP02 IS004	280-21902-56	ex41J21655.d	11/02/2011 08:52
CP02 IS005	280-21902-57	ex41J21656.d	11/02/2011 09:06
CP02 IS006	280-21902-58	ex41J21657.d	11/02/2011 09:20
CP02 IS006 MS	280-21902-58 MS	ex41J21658.d	11/02/2011 09:33
CP02 IS006 MSD	280-21902-58 MSD	ex41J21659.d	11/02/2011 09:47

FORM IV 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		HXC4		HHTT		DNB4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		562630	2.06	2127170	3.03	1552444	4.99
UPPER LIMIT		1125260	2.56	4254340	3.53	3104888	5.49
LOWER LIMIT		281315	1.56	1063585	2.53	776222	4.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 280-92354/8		590369	2.06	2376310	3.03	1449500	4.99
ICV 280-92354/10		589783	2.06	2122759	3.03	1604847	4.99
CCV 280-94252/164		498886	2.06	1859604	3.03	1232467	4.95
MB 280-93548/1-A		618471	2.06	1915623	3.03	1391829	4.95
LCS 280-93548/2-A		472885	2.06	1816603	3.03	1370999	4.95
GB 280-92116/1-B		617110	2.06	2012248	3.03	1191533	4.95
LCSSRM 280-92116/2-B		473445	2.06	1912642	3.03	1256065	4.95
CCV 280-94252/175		540942	2.06	1770166	3.03	1345773	4.95
280-21902-53	CP03 IS009	562150	2.06	2099019	3.03	1304753	4.95
280-21902-54	CP03 IS008	491168	2.06	1624358	3.03	1102812	4.95
280-21902-55	CP03 IS007	546127	2.06	1953309	3.03	1145636	4.95
280-21902-56	CP02 IS004	516579	2.06	1864507	3.03	1317631	4.95
280-21902-57	CP02 IS005	449806	2.06	1594261	3.03	1230630	4.99
280-21902-58	CP02 IS006	421832	2.06	1431097	3.03	1274231	4.99
280-21902-58 MS	CP02 IS006 MS	350310	2.06	1372246	3.03	1387902	4.99
280-21902-58 MSD	CP02 IS006 MSD	398250	2.06	1581704	3.03	1333363	4.99
CCV 280-94252/184		380675	2.06	1409235	3.03	1263585	4.95
CCV 280-94610/1		507926	2.06	1840715	2.99	1376172	4.91
MB 280-92995/1-A		632825	2.06	2109747	2.99	1493432	4.91
LCS 280-92995/2-A		433611	2.06	1737492	3.03	1235194	4.91
280-21902-21	TP01 SB129	642967	2.06	1991661	3.03	1371153	4.95
280-21902-22	TP01 SB130	631287	2.06	1973885	3.03	1386480	4.95
280-21902-22 MS	TP01 SB130 MS	519940	2.06	1860086	3.03	1461587	4.95
280-21902-22 MSD	TP01 SB130 MSD	423701	2.06	1499246	3.03	1235589	4.95
280-21902-23	TP01 SB131	586236	2.06	1914538	3.03	1411513	4.91
280-21902-35	CP27 SB052	629758	2.06	2025352	3.03	1462999	4.95
CCV 280-94610/10		404315	2.06	1806122	2.99	1269965	4.91
280-21902-36	CP27 SB053	600461	2.06	1922607	3.03	1451515	4.91
280-21902-37	CP22 SB040	439589	2.06	1642579	3.03	1281241	4.95
280-21902-38	CP22 SB041	580320	2.06	1746441	3.03	1185115	4.95

HXC4 = HMX-13C4
HHTT = Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3
DNB4 = 1,3-Dinitrobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		HXC4		HHTT		DNB4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		562630	2.06	2127170	3.03	1552444	4.99
UPPER LIMIT		1125260	2.56	4254340	3.53	3104888	5.49
LOWER LIMIT		281315	1.56	1063585	2.53	776222	4.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
280-21902-39	CP25 SB048	664068	2.06	1942576	3.03	1423533	4.91
280-21902-40	CP25 SB049	550050	2.06	1931445	3.03	1376039	4.95
280-21902-41	CP24 SB046	668238	2.06	2182462	3.03	1324101	4.91
280-21902-42	CP24 SB047	632586	2.06	2148410	3.03	1475622	4.95
280-21902-43	CP26 SB050	634014	2.06	2052909	3.03	1367507	4.95
CCV 280-94610/19		449741	2.06	1904995	3.03	1338355	4.95
280-21902-44	CP26 SB051	689421	2.06	1979681	3.03	1496688	4.91
280-21902-45	CP21 SB038	753081	2.06	2229560	3.03	1505887	4.95
280-21902-46	CP21 SB039	597831	2.06	1972534	3.03	1379934	4.95
280-21902-47	CP20 SB037	618416	2.06	2052194	3.03	1477470	4.95
280-21902-48	CP20 SB036	650524	2.06	2031594	3.03	1315258	4.95
280-21902-50	CP23 SB042	651579	2.06	2243683	3.03	1613104	4.91
280-21902-51	CP23 SB044	669155	2.06	2428256	2.99	1709643	4.95
CCV 280-94610/28		580811	2.06	2029393	2.99	1665426	4.91
CCV 280-94611/28		580811	2.06	2029393	2.99	1665426	4.91
MB 280-93019/1-A		757015	2.06	2513509	3.03	1730759	4.91
280-21902-52	CP23 SB043	591251	2.06	1966802	3.03	1450189	4.95
280-21902-52 MS	CP23 SB043 MS	634853	2.06	2354509	3.03	1535240	4.95
280-21902-52 MSD	CP23 SB043 MSD	543500	2.06	2405580	3.03	1604888	4.91
280-21902-59	CP13 SB019	644320	2.06	2384282	3.03	1582045	4.95
280-21902-60	CP13 SB021	737606	2.06	2239188	3.03	1392292	4.95
280-21902-61	CP13 SB020	817282	2.06	2428310	3.03	1565412	4.95
280-21902-61 MS	CP13 SB020 MS	624059	2.06	2196867	3.03	1628017	4.95
280-21902-61 MSD	CP13 SB020 MSD	568708	2.06	1916462	3.03	1625734	4.95
CCV 280-94611/39		704981	2.06	2400291	3.03	1647855	4.95
280-21902-63	CP14 SB023	842183	2.06	2211272	3.03	1578233	4.91
280-21902-64	CP14 SB024	731434	2.06	2258892	3.03	1600390	4.95
280-21902-65	CP18 SB031	703906	2.06	2149315	3.03	1360456	4.95
280-21902-66	CP18 SB032	699535	2.06	2163704	3.03	1374721	4.95
280-21902-67	CP18 SB033	747810	2.06	1957978	3.03	1663438	4.95

HXC4 = HMX-13C4
HHTT = Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3
DNB4 = 1,3-Dinitrobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		HXC4		HHTT		DNB4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		562630	2.06	2127170	3.03	1552444	4.99
UPPER LIMIT		1125260	2.56	4254340	3.53	3104888	5.49
LOWER LIMIT		281315	1.56	1063585	2.53	776222	4.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 280-94611/48		606678	2.06	2132334	3.03	1519355	4.95
280-21902-68	CP15 SB025	696552	2.06	2416539	3.03	1497833	4.95
280-21902-69	CP15 SB026	660852	2.06	2112569	3.03	1417480	4.95
280-21902-70	CP16 SB027	719667	2.06	2217121	3.03	1487983	4.95
280-21902-71	CP16 SB028	772242	2.06	2331940	3.03	1551036	4.95
280-21902-72	CP19 SB034	649510	2.06	2281162	3.03	1515559	4.95
280-21902-73	CP19 SB035	732416	2.06	2286769	3.03	1383231	4.95
280-21902-74	CP17 SB029	686698	2.06	1934979	3.03	1524435	4.95
280-21902-75	CP17 SB030	796549	2.06	1952935	3.03	1776671	4.95
CCV 280-94611/57		754147	2.06	2453966	3.03	1583135	4.91
CCV 280-94612/57		754147	2.06	2453966	3.03	1583135	4.91
MB 280-93507/1-A		768995	2.06	2320049	3.03	1578877	4.91
280-21902-1	TP05 SD018	813218	2.06	2598006	3.03	1458360	4.91
280-21902-2	TP06 SD019	669416	2.06	2073454	2.99	1540444	4.91
280-21902-3	TP07 SD020	689019	2.06	2375116	3.03	1567570	4.91
280-21902-4	TP08 SD021	642900	2.06	2327307	3.03	1466859	4.95
280-21902-5	TP09 SD022	648939	2.06	2368270	3.03	1474985	4.91
280-21902-6	TP10 SD023	744854	2.06	2317457	3.03	1533485	4.91
CCV 280-94612/66		660206	2.06	1999835	2.99	1576923	4.95
280-21902-8	TP12 SD025	747539	2.06	2253981	2.99	1597201	4.91
280-21902-9	TP13 SD026	686476	2.06	2290208	2.99	1381067	4.95
280-21902-10	TP14 SD027	523415	2.06	1690176	3.03	1343364	4.95
280-21902-11	TP14 SD028	619461	2.06	2095749	3.03	1468118	4.91
280-21902-12	TP15 SD029	599119	2.06	1895401	3.03	1441320	4.91
CCV 280-94612/75		664648	2.06	2259680	2.99	1614634	4.91
280-21902-13	TP16 SD030	737863	2.06	2027396	3.03	1764302	4.91
280-21902-14	TP17 SD031	717889	2.06	2192904	3.03	1444109	4.91
280-21902-15	TP18 SD032	773919	2.06	2330506	3.03	1463156	4.95
280-21902-16	TP19 SD033	647552	2.06	1906065	3.03	1593417	4.91
280-21902-17	TP20 SD034	745664	2.06	2313712	2.99	1687716	4.91

HXC4 = HMX-13C4
HHTT = Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3
DNB4 = 1,3-Dinitrobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4 Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2(mm) Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		HXC4		HHTT		DNB4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		562630	2.06	2127170	3.03	1552444	4.99
UPPER LIMIT		1125260	2.56	4254340	3.53	3104888	5.49
LOWER LIMIT		281315	1.56	1063585	2.53	776222	4.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
280-21902-18	TP21 SD035	673398	2.06	2070611	3.03	1615835	4.91
280-21902-19	TP21 SD036	607556	2.06	1854902	2.99	1484106	4.91
280-21902-20	TP01 SB128	707075	2.06	1858914	2.99	1544389	4.95
CCV 280-94612/85		632943	2.06	2259204	3.03	1471021	4.95
CCV 280-94725/85		632943	2.06	2259204	3.03	1471021	4.95
LCS 280-93019/2-A		554836	2.06	1901371	3.03	1452256	4.91
LCS 280-93507/2-A		546060	2.06	1826604	3.03	1445593	4.91
280-21902-7	TP11 SD024	628433	2.06	1674633	3.03	1454453	4.95
280-21902-7 MS	TP11 SD024 MS	493780	2.06	1839714	3.03	1548248	4.95
280-21902-7 MSD	TP11 SD024 MSD	622355	2.06	2239658	3.03	1694856	4.95
CCV 280-94725/91		675252	2.06	2240545	3.03	1432151	4.95

HXC4 = HMX-13C4
HHTT = Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3
DNB4 = 1,3-Dinitrobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		DNT3					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		4571849	7.25				
UPPER LIMIT		9143698	7.75				
LOWER LIMIT		2285925	6.75				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 280-92354/8		4206276	7.26				
ICV 280-92354/10		4927567	7.23				
CCV 280-94252/164		3464165	7.23				
MB 280-93548/1-A		3171776	7.23				
LCS 280-93548/2-A		3749162	7.20				
GB 280-92116/1-B		3705461	7.20				
LCSSRM 280-92116/2-B		4051097	7.20				
CCV 280-94252/175		3873083	7.20				
280-21902-53	CP03 IS009	3855941	7.20				
280-21902-54	CP03 IS008	3694480	7.20				
280-21902-55	CP03 IS007	3878691	7.20				
280-21902-56	CP02 IS004	3856809	7.20				
280-21902-57	CP02 IS005	3894120	7.23				
280-21902-58	CP02 IS006	3801304	7.23				
280-21902-58 MS	CP02 IS006 MS	4575500	7.23				
280-21902-58 MSD	CP02 IS006 MSD	3850120	7.23				
CCV 280-94252/184		3543875	7.20				
CCV 280-94610/1		4080591	7.14				
MB 280-92995/1-A		4251289	7.14				
LCS 280-92995/2-A		4211734	7.14				
280-21902-21	TP01 SB129	4390127	7.14				
280-21902-22	TP01 SB130	3766195	7.14				
280-21902-22 MS	TP01 SB130 MS	4496418	7.14				
280-21902-22 MSD	TP01 SB130 MSD	3754486	7.17				
280-21902-23	TP01 SB131	4272891	7.14				
280-21902-35	CP27 SB052	4037738	7.17				
CCV 280-94610/10		3931547	7.14				
280-21902-36	CP27 SB053	3992913	7.17				
280-21902-37	CP22 SB040	4144283	7.17				
280-21902-38	CP22 SB041	3544133	7.17				

DNT3 = 2,4-dinitrotoluene-d3

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		DNT3					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		4571849	7.25				
UPPER LIMIT		9143698	7.75				
LOWER LIMIT		2285925	6.75				
LAB SAMPLE ID	CLIENT SAMPLE ID						
280-21902-39	CP25 SB048	4281979	7.17				
280-21902-40	CP25 SB049	4601819	7.14				
280-21902-41	CP24 SB046	4177184	7.14				
280-21902-42	CP24 SB047	4240478	7.17				
280-21902-43	CP26 SB050	3910729	7.17				
CCV 280-94610/19		3949929	7.14				
280-21902-44	CP26 SB051	4170396	7.17				
280-21902-45	CP21 SB038	4536989	7.17				
280-21902-46	CP21 SB039	4103066	7.17				
280-21902-47	CP20 SB037	4051143	7.17				
280-21902-48	CP20 SB036	4390377	7.17				
280-21902-50	CP23 SB042	4998788	7.17				
280-21902-51	CP23 SB044	4829607	7.17				
CCV 280-94610/28		5056150	7.14				
CCV 280-94611/28		5056150	7.14				
MB 280-93019/1-A		4930387	7.14				
280-21902-52	CP23 SB043	4593608	7.17				
280-21902-52 MS	CP23 SB043 MS	4654819	7.17				
280-21902-52 MSD	CP23 SB043 MSD	4813928	7.14				
280-21902-59	CP13 SB019	4585892	7.17				
280-21902-60	CP13 SB021	4830324	7.14				
280-21902-61	CP13 SB020	4633113	7.17				
280-21902-61 MS	CP13 SB020 MS	4910742	7.14				
280-21902-61 MSD	CP13 SB020 MSD	4836949	7.17				
CCV 280-94611/39		4818545	7.14				
280-21902-63	CP14 SB023	4620773	7.17				
280-21902-64	CP14 SB024	4952979	7.14				
280-21902-65	CP18 SB031	4272151	7.17				
280-21902-66	CP18 SB032	4650458	7.14				
280-21902-67	CP18 SB033	4930361	7.14				

DNT3 = 2,4-dinitrotoluene-d3

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		DNT3					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		4571849	7.25				
UPPER LIMIT		9143698	7.75				
LOWER LIMIT		2285925	6.75				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 280-94611/48		4850827	7.17				
280-21902-68	CP15 SB025	4235800	7.17				
280-21902-69	CP15 SB026	4665983	7.17				
280-21902-70	CP16 SB027	4589885	7.17				
280-21902-71	CP16 SB028	4478969	7.17				
280-21902-72	CP19 SB034	4775811	7.17				
280-21902-73	CP19 SB035	4224550	7.14				
280-21902-74	CP17 SB029	4494433	7.14				
280-21902-75	CP17 SB030	5013745	7.14				
CCV 280-94611/57		4382975	7.14				
CCV 280-94612/57		4382975	7.14				
MB 280-93507/1-A		4279533	7.14				
280-21902-1	TP05 SD018	4202858	7.14				
280-21902-2	TP06 SD019	4452818	7.14				
280-21902-3	TP07 SD020	4435891	7.14				
280-21902-4	TP08 SD021	4025422	7.14				
280-21902-5	TP09 SD022	4733377	7.14				
280-21902-6	TP10 SD023	4291951	7.14				
CCV 280-94612/66		4709754	7.14				
280-21902-8	TP12 SD025	5088658	7.14				
280-21902-9	TP13 SD026	3922764	7.14				
280-21902-10	TP14 SD027	3925162	7.14				
280-21902-11	TP14 SD028	4343080	7.14				
280-21902-12	TP15 SD029	4318680	7.11				
CCV 280-94612/75		4530595	7.11				
280-21902-13	TP16 SD030	4478083	7.14				
280-21902-14	TP17 SD031	4652414	7.14				
280-21902-15	TP18 SD032	4088959	7.14				
280-21902-16	TP19 SD033	4781944	7.14				
280-21902-17	TP20 SD034	4893497	7.14				

DNT3 = 2,4-dinitrotoluene-d3

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 10/21/2011 10:50

Calibration ID: 7573

		DNT3					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		4571849	7.25				
UPPER LIMIT		9143698	7.75				
LOWER LIMIT		2285925	6.75				
LAB SAMPLE ID	CLIENT SAMPLE ID						
280-21902-18	TP21 SD035	4081967	7.14				
280-21902-19	TP21 SD036	4025936	7.14				
280-21902-20	TP01 SB128	4702503	7.14				
CCV 280-94612/85		4501154	7.17				
CCV 280-94725/85		4501154	7.17				
LCS 280-93019/2-A		3954800	7.14				
LCS 280-93507/2-A		3957692	7.14				
280-21902-7	TP11 SD024	3907305	7.14				
280-21902-7 MS	TP11 SD024 MS	4723688	7.17				
280-21902-7 MSD	TP11 SD024 MSD	4651223	7.14				
CCV 280-94725/91		4451927	7.17				

DNT3 = 2,4-dinitrotoluene-d3

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP05 SD018

Lab Sample ID: 280-21902-1

Matrix: Solid

Lab File ID: ex41J21809.d

Analysis Method: 8321B

Date Collected: 10/19/2011 11:10

Extraction Method: 8330B

Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.45(g)

Date Analyzed: 11/04/2011 01:14

Con. Extract Vol.: 40(mL)

Dilution Factor: 1

Injection Volume: 40(uL)

GC Column: IonPac ID: 2(mm)

% Moisture:

GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612

Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21809.d		
Lims ID:	280-21902-A-1-E	Client ID:	SD018
Inject. Date:	04-Nov-2011 01:14:22	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-1-E 280-0002711-060		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	26
Lims Batch ID:	94612	Lims Sample ID:	60
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:33:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:40:40

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		813218	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2598006	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1458360	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	618723	85.9			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4202858	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										1
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

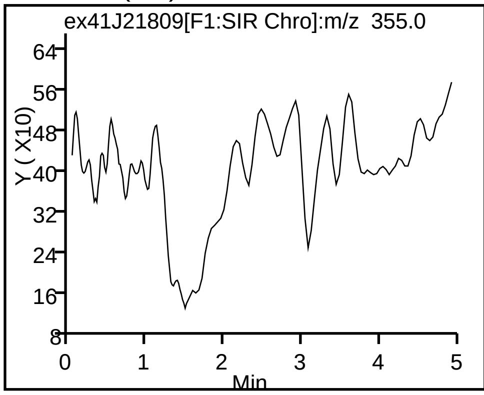
QC Flag Legend

Processing Flags
1 - Missing Peaks

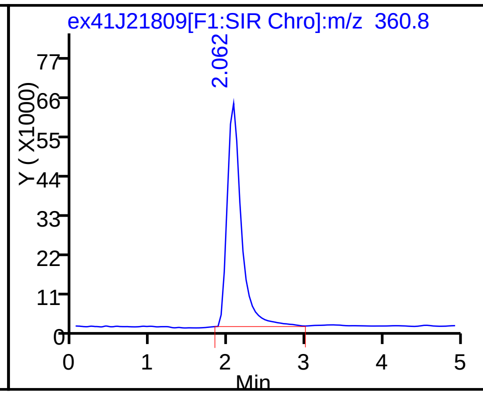
Report Date: 04-Nov-2011 07:37:17 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21809.d

Injection Date:	04-Nov-2011 01:14:22	Limit Group:	LC - 8321A Expl
Client ID:	SD018	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	60
Operator ID:		Injection Vol:	40.00 ul

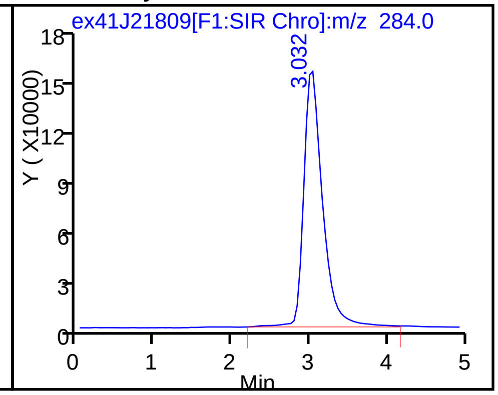
2 HMX (ND)



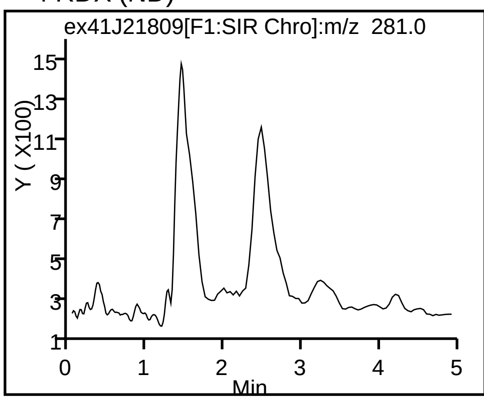
* 1 HMX-13C4



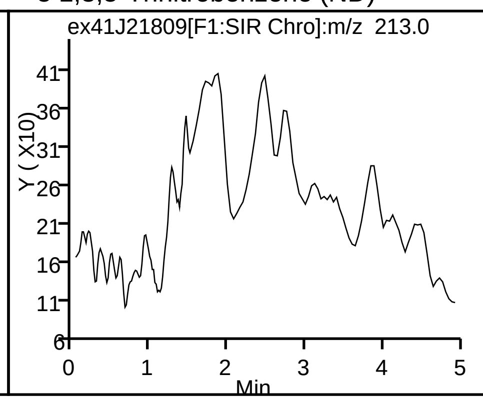
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



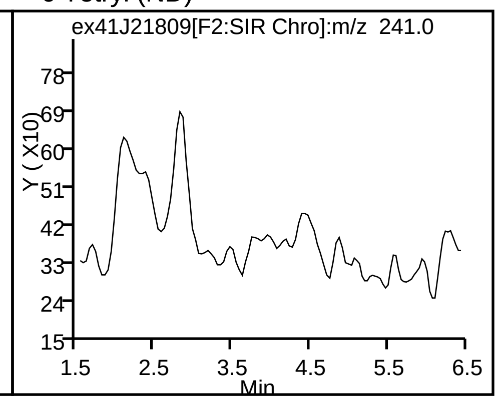
4 RDX (ND)



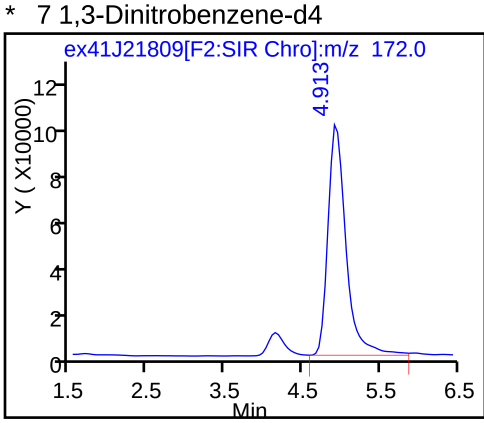
5 1,3,5-Trinitrobenzene (ND)



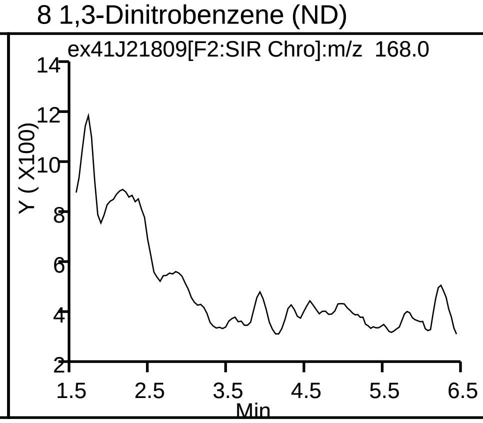
6 Tetryl (ND)



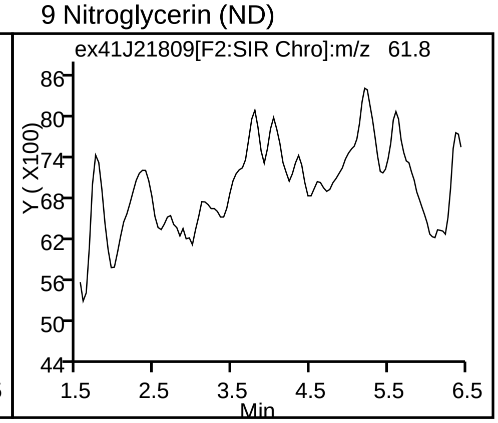
* 7 1,3-Dinitrobenzene-d4



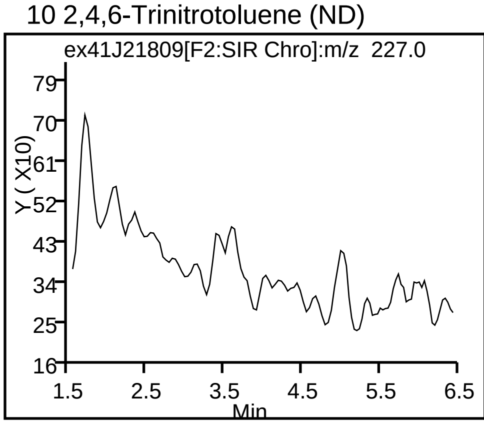
8 1,3-Dinitrobenzene (ND)



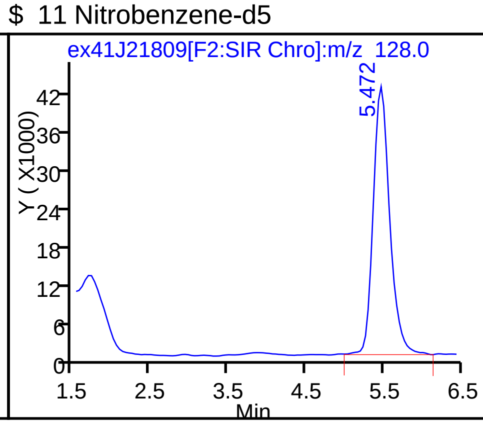
9 Nitroglycerin (ND)



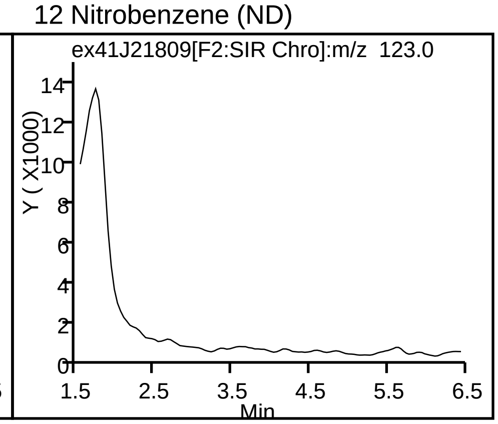
10 2,4,6-Trinitrotoluene (ND)



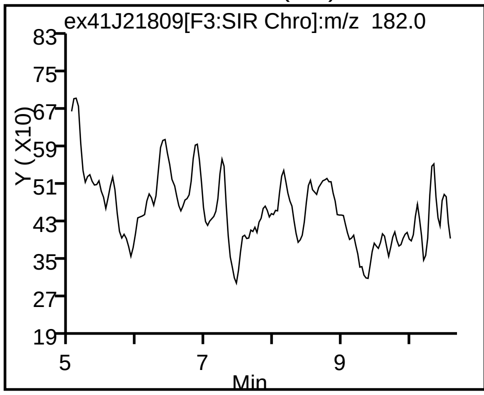
$ 11 Nitrobenzene-d5



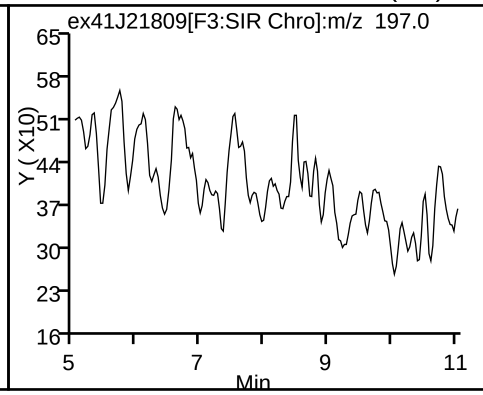
12 Nitrobenzene (ND)



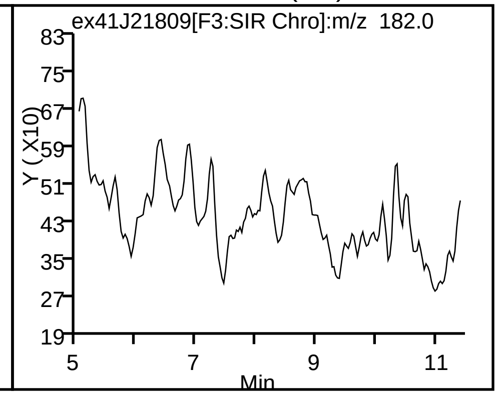
13 3,4-Dinitrotoluene (ND)



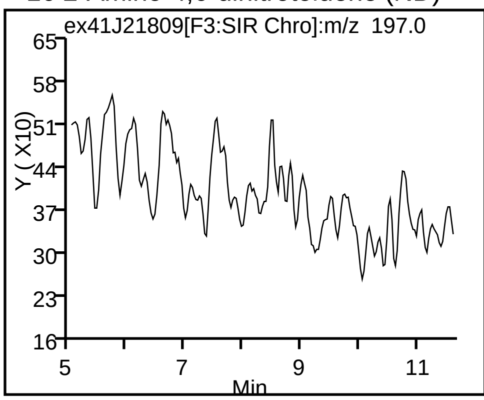
14 4-Amino-2,6-dinitrotoluene (ND)



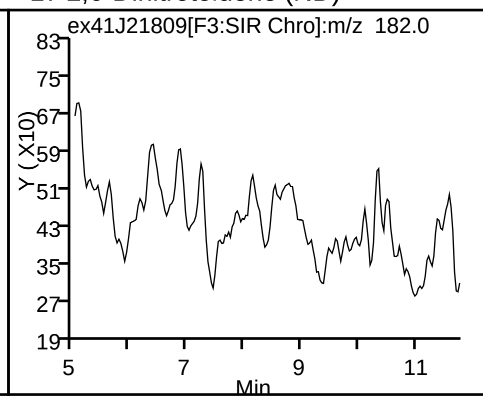
15 2,3-Dinitrotoluene (ND)



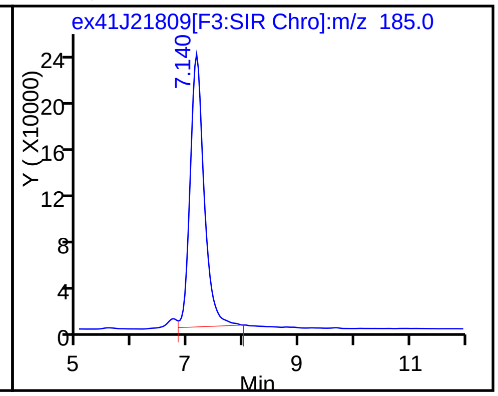
16 2-Amino-4,6-dinitrotoluene (ND)



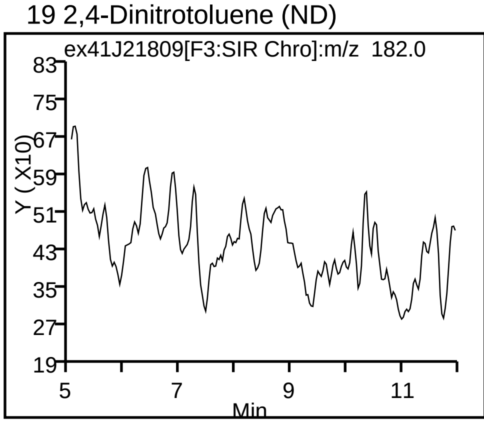
17 2,6-Dinitrotoluene (ND)



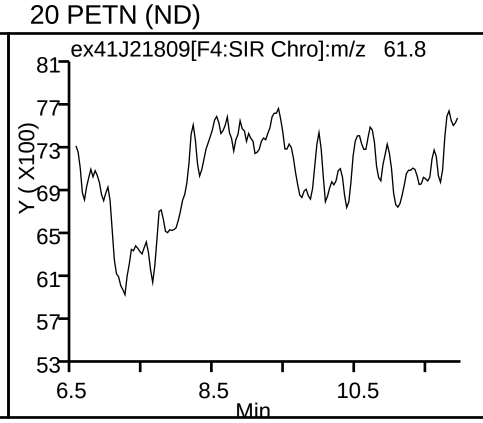
* 18 2,4-dinitrotoluene-d3



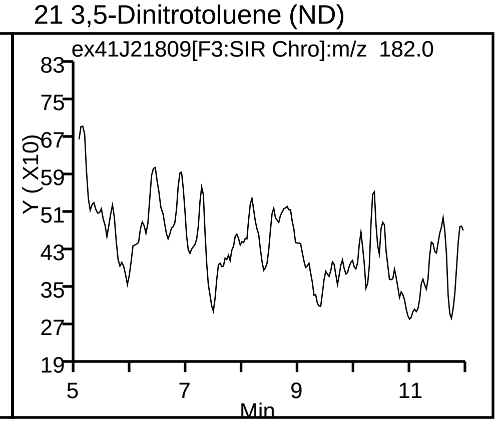
19 2,4-Dinitrotoluene (ND)



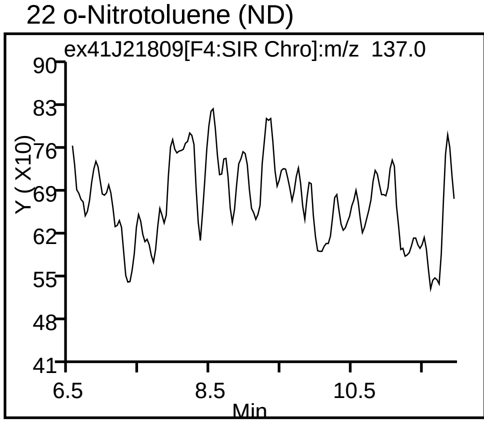
20 PETN (ND)



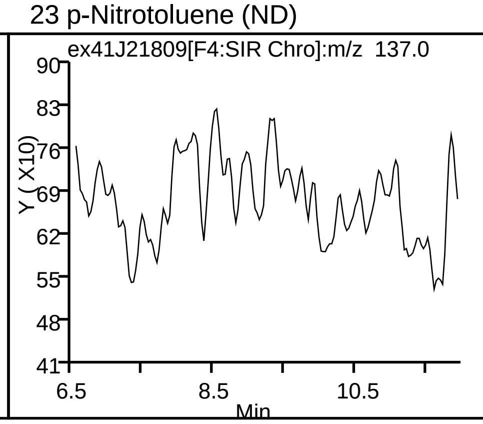
21 3,5-Dinitrotoluene (ND)



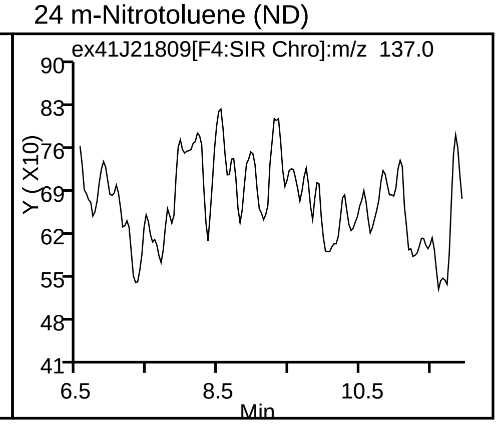
22 o-Nitrotoluene (ND)



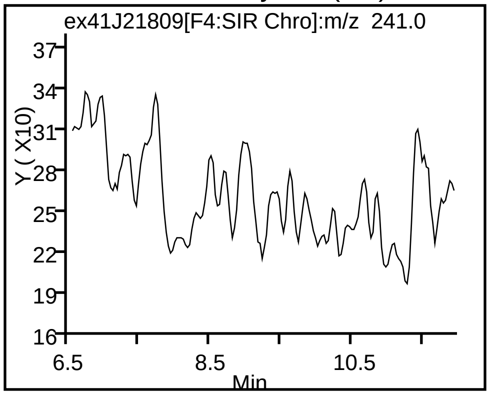
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP06 SD019 | Lab Sample ID: 280-21902-2

Matrix: Solid | Lab File ID: ex41J21810.d

Analysis Method: 8321B | Date Collected: 10/19/2011 11:15

Extraction Method: 8330B | Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.97(g) | Date Analyzed: 11/04/2011 01:27

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.091	0.023	0.011
99-65-0	1,3-Dinitrobenzene	0.011	U	0.091	0.011	0.0065
118-96-7	2,4,6-Trinitrotoluene	0.011	U	0.091	0.011	0.0046
121-14-2	2,4-Dinitrotoluene	0.011	U	0.091	0.011	0.0075
606-20-2	2,6-Dinitrotoluene	0.023	U	0.091	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.091	0.023	0.011
88-72-2	2-Nitrotoluene	0.011	U	0.091	0.011	0.0052
99-08-1	3-Nitrotoluene	0.023	U	0.091	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.011	U	0.091	0.011	0.0046
99-99-0	4-Nitrotoluene	0.023	U	0.091	0.023	0.010
2691-41-0	HMX	0.011	U	0.091	0.011	0.0053
98-95-3	Nitrobenzene	0.011	U	0.091	0.011	0.0098
55-63-0	Nitroglycerin	0.011	U	0.091	0.011	0.0096
78-11-5	PETN	0.011	U	0.091	0.011	0.0047
121-82-4	RDX	0.011	U	0.091	0.011	0.0039
479-45-8	Tetryl	0.011	U	0.091	0.011	0.0069

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	86		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21810.d		
Lims ID:	280-21902-A-2-C	Client ID:	SD019
Inject. Date:	04-Nov-2011 01:27:56	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-2-C 280-0002711-061		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	27
Lims Batch ID:	94612	Lims Sample ID:	61
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:33:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 04-Nov-2011 06:40:51

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		669416	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	3.032	-0.041		2073454	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1540444	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	645750	84.9			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15	2,3-Dinitrotoluene									1
3	182.0		6.425							
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.624							
17	2,6-Dinitrotoluene									1
3	182.0		6.776							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.140	7.140	0.000		4452818	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.201							
20	PETN									
4	61.8		7.646							
21	3,5-Dinitrotoluene									1
3	182.0		7.808							
22	o-Nitrotoluene									1
4	137.0		8.163							
23	p-Nitrotoluene									1
4	137.0		8.739							
24	m-Nitrotoluene									
4	137.0		9.377							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.227							

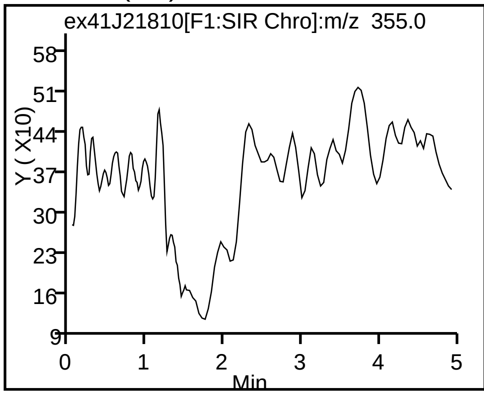
QC Flag Legend

Processing Flags
1 - Missing Peaks

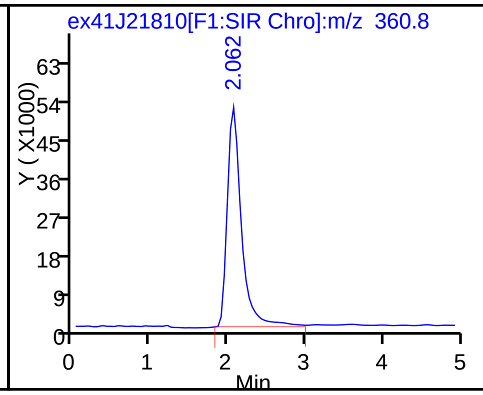
Report Date: 04-Nov-2011 07:37:17 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21810.d

Injection Date:	04-Nov-2011 01:27:56	Limit Group:	LC - 8321A Expl
Client ID:	SD019	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	61
Operator ID:		Injection Vol:	40.00 ul

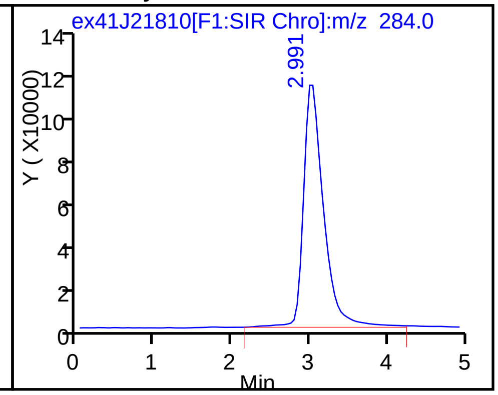
2 HMX (ND)



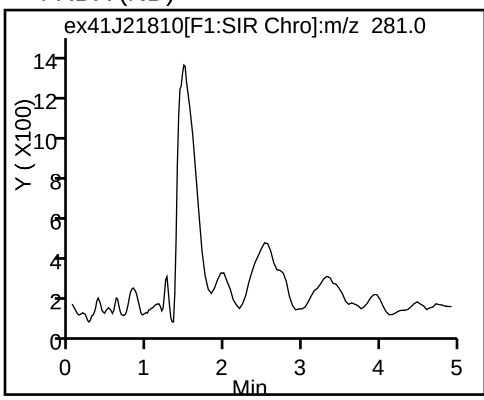
* 1 HMX-13C4



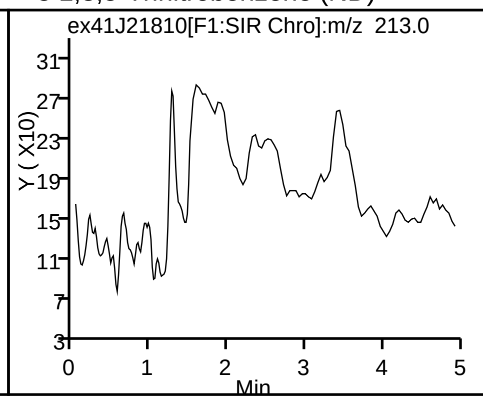
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



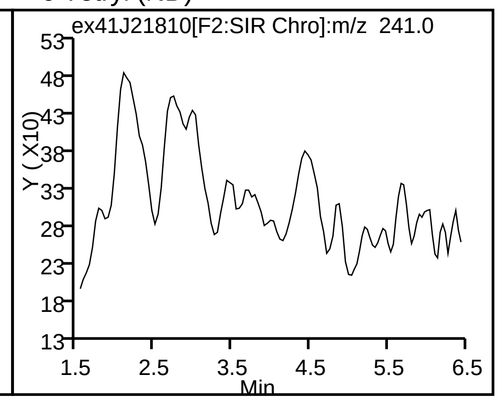
4 RDX (ND)



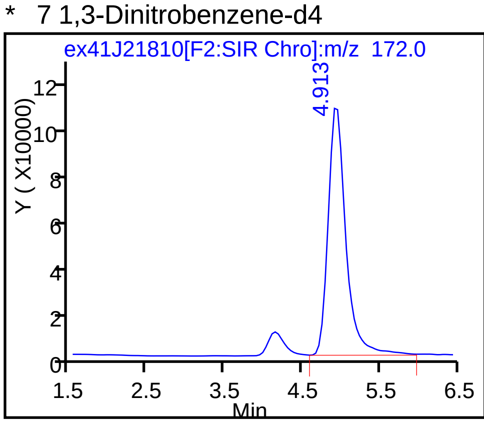
5 1,3,5-Trinitrobenzene (ND)



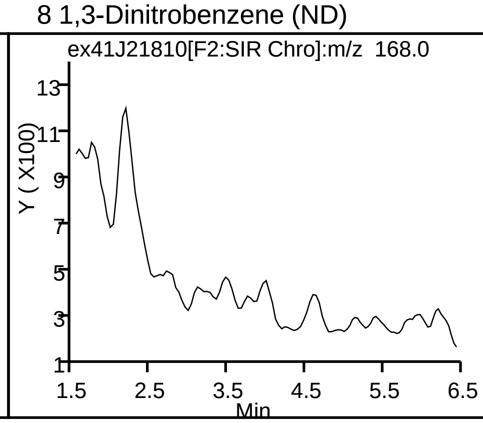
6 Tetryl (ND)



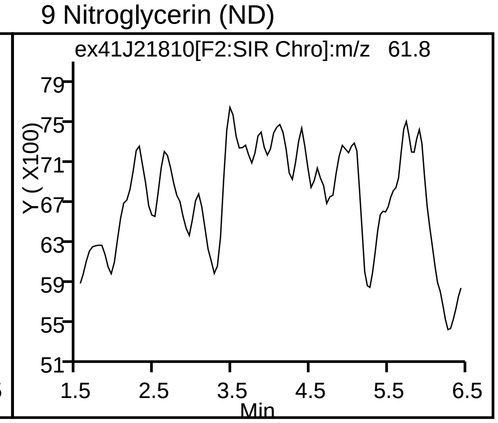
* 7 1,3-Dinitrobenzene-d4



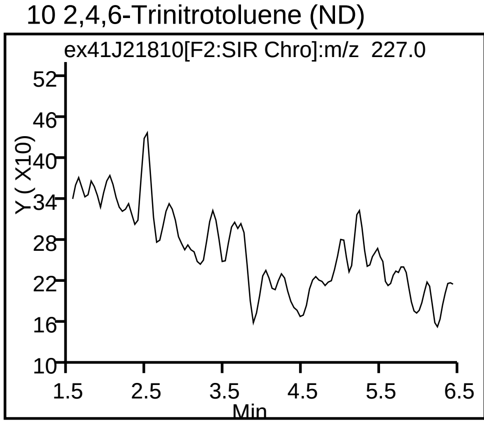
8 1,3-Dinitrobenzene (ND)



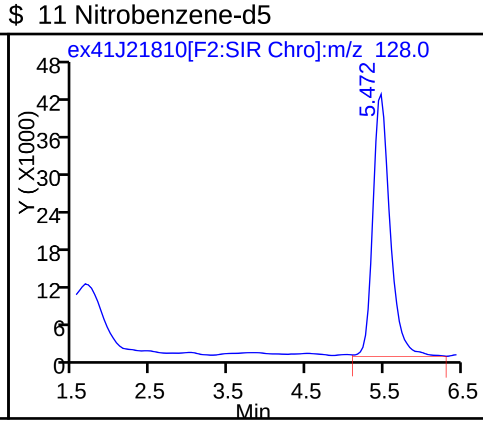
9 Nitroglycerin (ND)



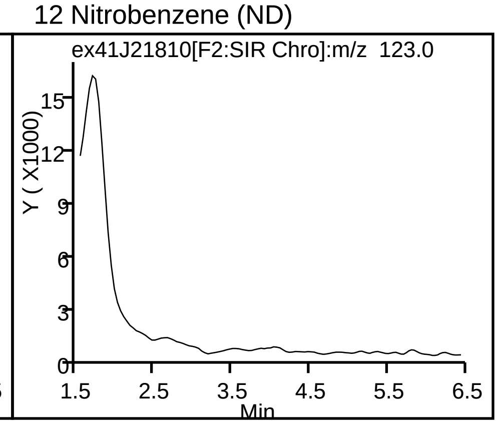
10 2,4,6-Trinitrotoluene (ND)



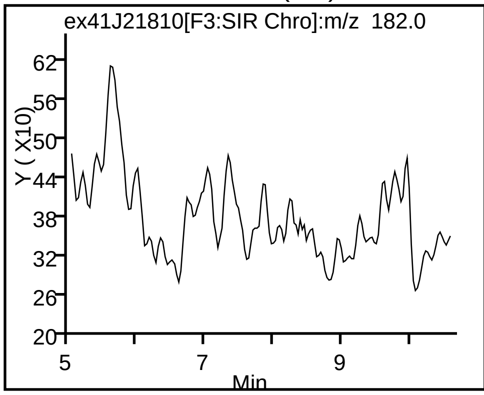
$ 11 Nitrobenzene-d5



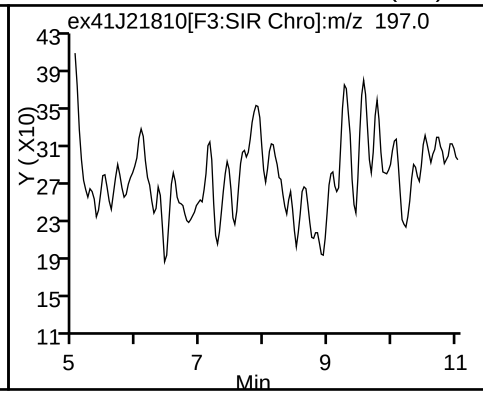
12 Nitrobenzene (ND)



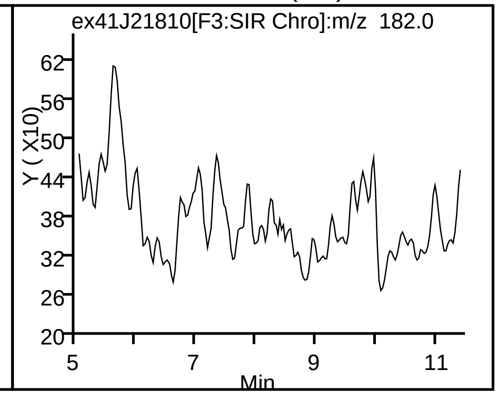
13 3,4-Dinitrotoluene (ND)



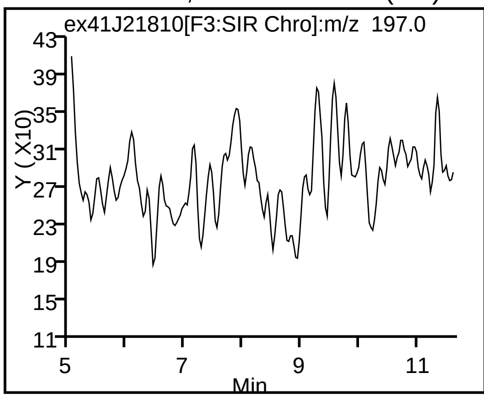
14 4-Amino-2,6-dinitrotoluene (ND)



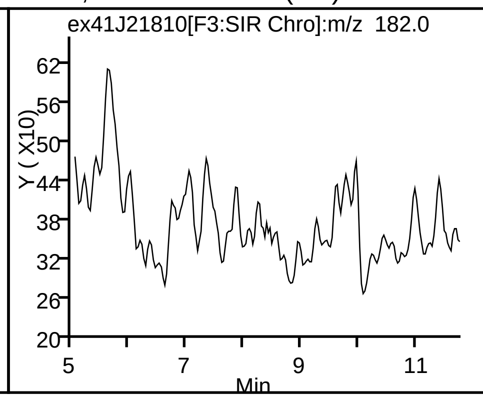
15 2,3-Dinitrotoluene (ND)



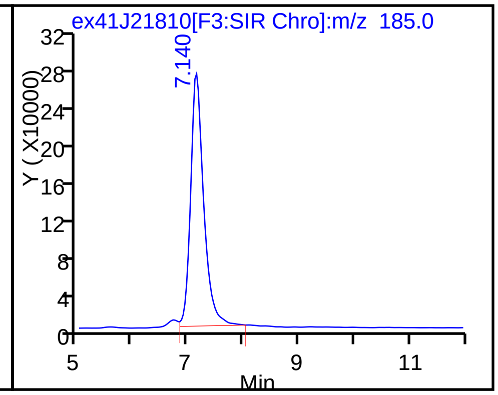
16 2-Amino-4,6-dinitrotoluene (ND)



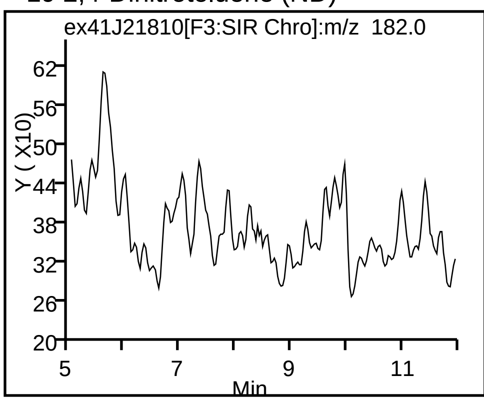
17 2,6-Dinitrotoluene (ND)



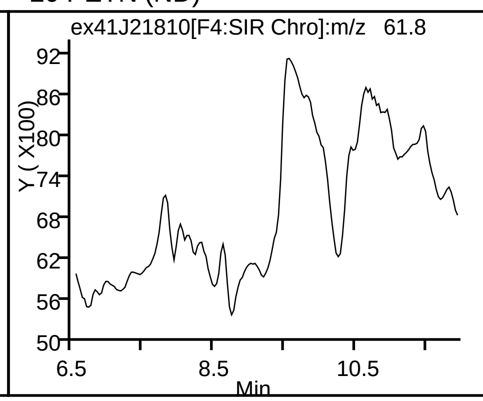
* 18 2,4-dinitrotoluene-d3



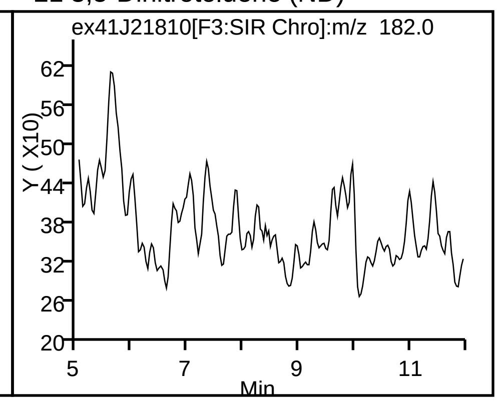
19 2,4-Dinitrotoluene (ND)



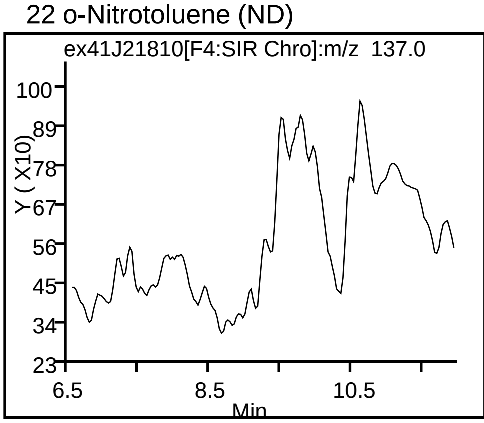
20 PETN (ND)



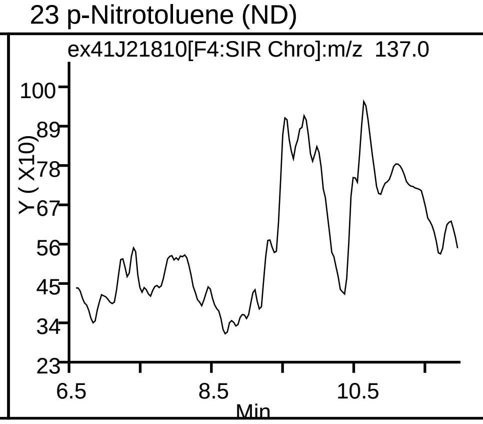
21 3,5-Dinitrotoluene (ND)



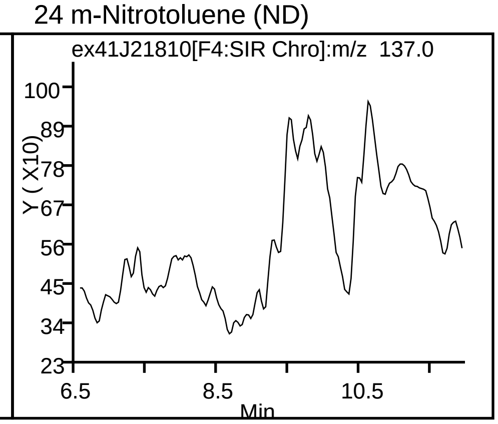
22 o-Nitrotoluene (ND)



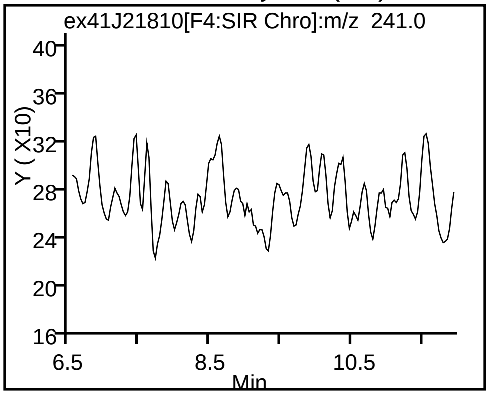
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver	Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP07 SD020	Lab Sample ID: 280-21902-3

Matrix: Solid	Lab File ID: ex41J21811.d

Analysis Method: 8321B	Date Collected: 10/19/2011 11:20

Extraction Method: 8330B	Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.20(g)	Date Analyzed: 11/04/2011 01:41

Con. Extract Vol.: 40(mL)	Dilution Factor: 1

Injection Volume: 40(uL)	GC Column: IonPac	ID: 2(mm)

% Moisture:	GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612	Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0050
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	84		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21811.d		
Lims ID:	280-21902-A-3-C	Client ID:	SD020
Inject. Date:	04-Nov-2011 01:41:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-3-C 280-0002711-062		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	28
Lims Batch ID:	94612	Lims Sample ID:	62
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:33:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:41:00

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		689019	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2375116	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1567570	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	644780	83.3			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4435891	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										1
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0		8.163							
23 p-Nitrotoluene										
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

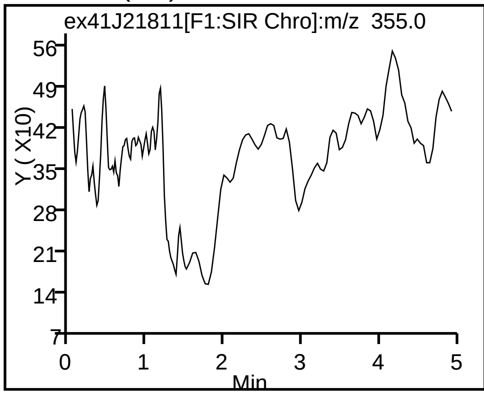
QC Flag Legend

Processing Flags
1 - Missing Peaks

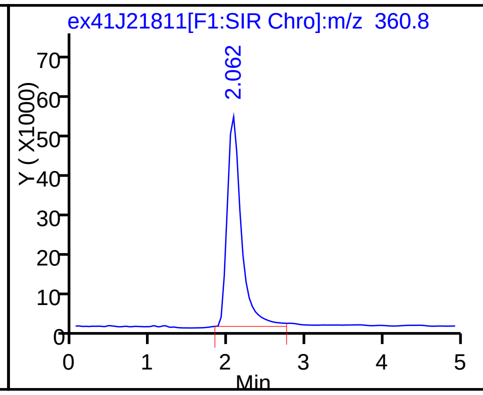
Report Date: 04-Nov-2011 07:37:18 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21811.d

Injection Date:	04-Nov-2011 01:41:30	Limit Group:	LC - 8321A Expl
Client ID:	SD020	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	62
Operator ID:		Injection Vol:	40.00 ul

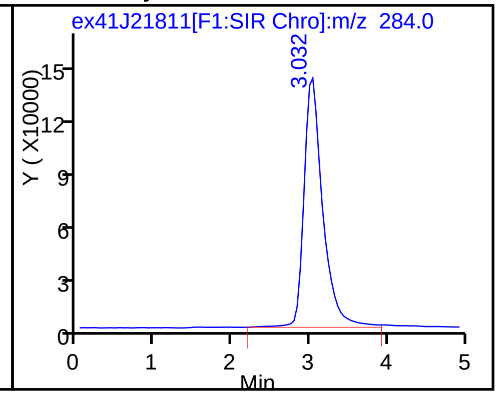
2 HMX (ND)



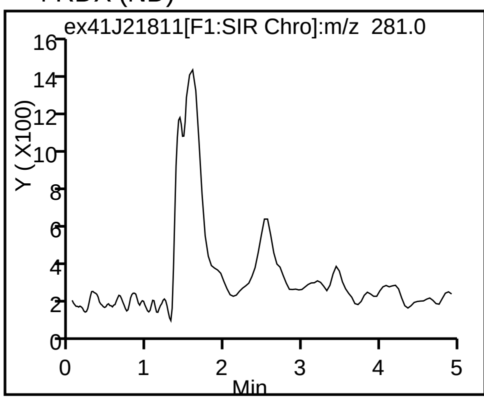
* 1 HMX-13C4



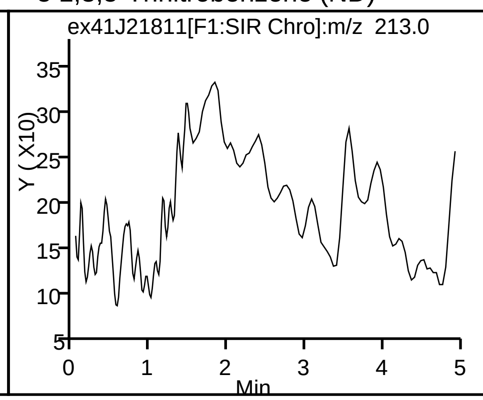
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



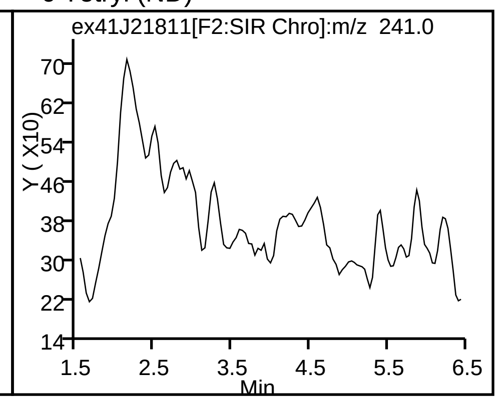
4 RDX (ND)



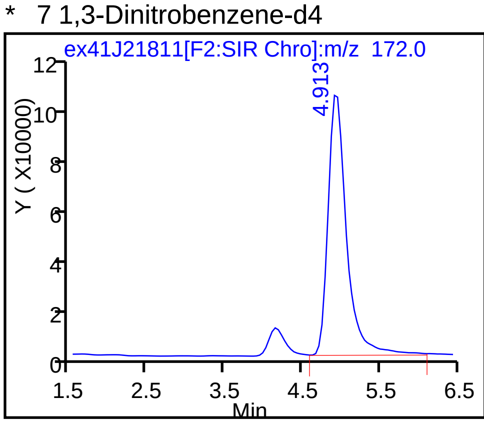
5 1,3,5-Trinitrobenzene (ND)



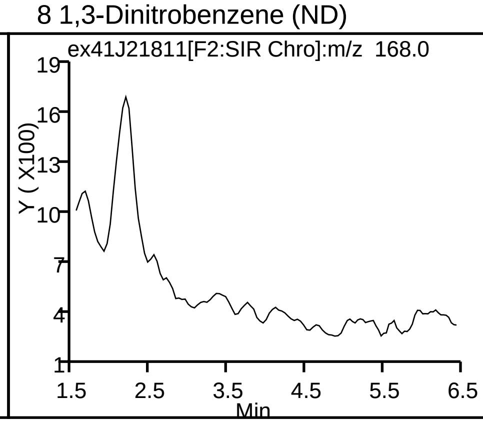
6 Tetryl (ND)



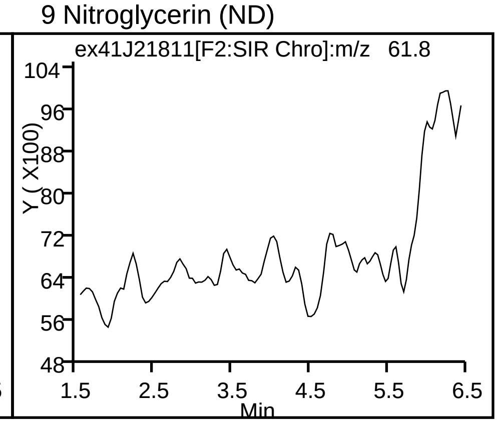
* 7 1,3-Dinitrobenzene-d4



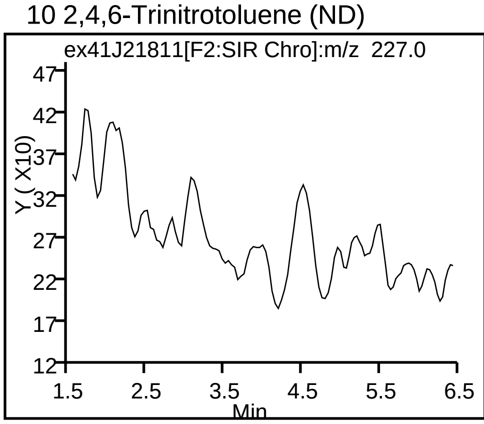
8 1,3-Dinitrobenzene (ND)



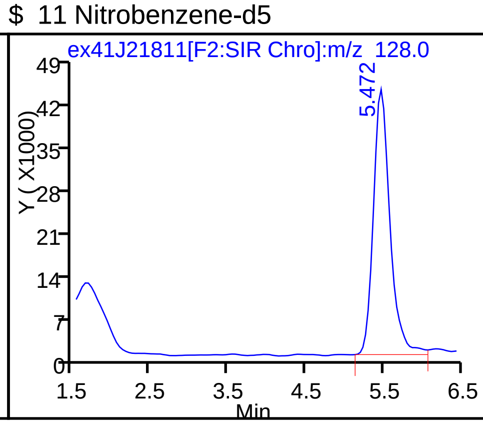
9 Nitroglycerin (ND)



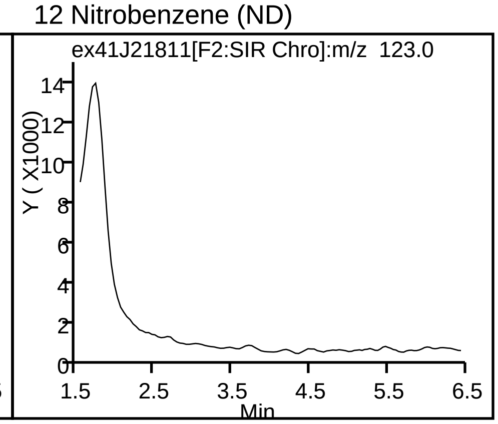
10 2,4,6-Trinitrotoluene (ND)



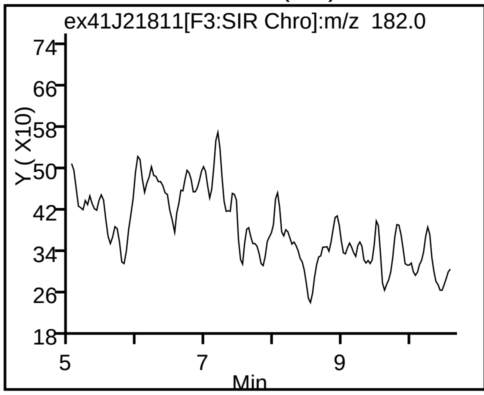
$ 11 Nitrobenzene-d5



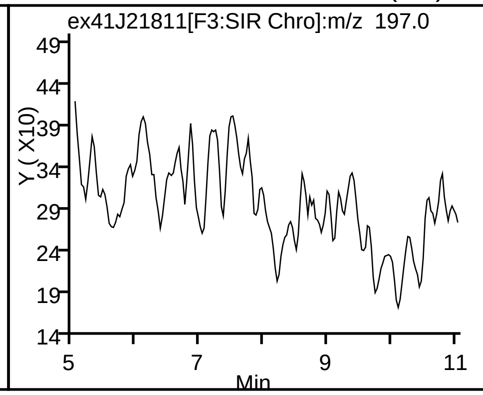
12 Nitrobenzene (ND)



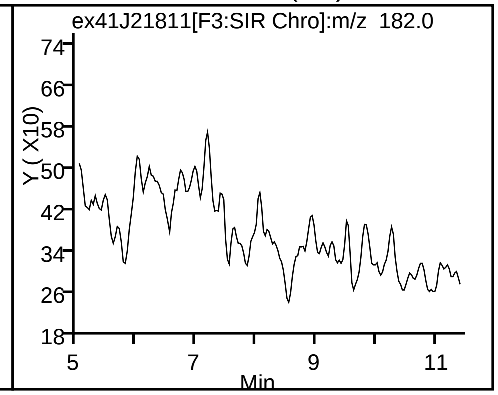
13 3,4-Dinitrotoluene (ND)



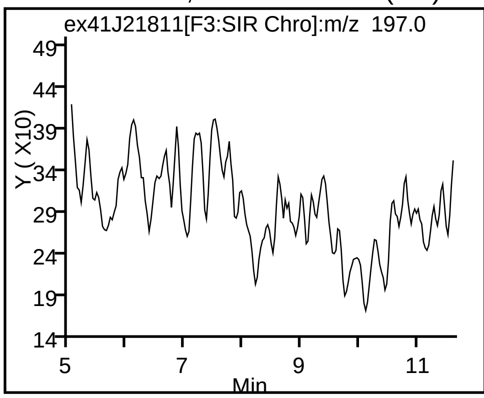
14 4-Amino-2,6-dinitrotoluene (ND)



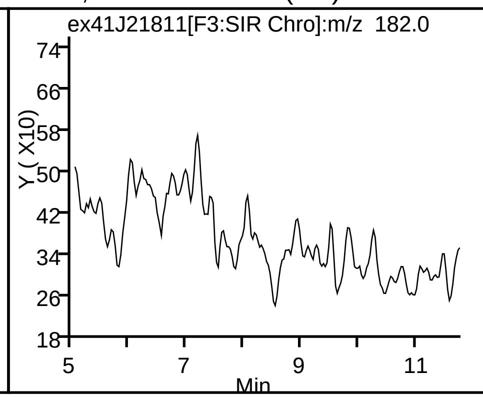
15 2,3-Dinitrotoluene (ND)



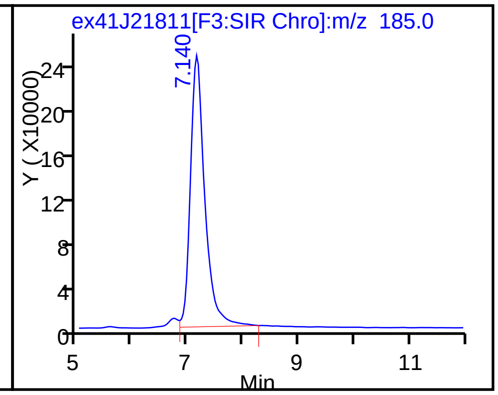
16 2-Amino-4,6-dinitrotoluene (ND)



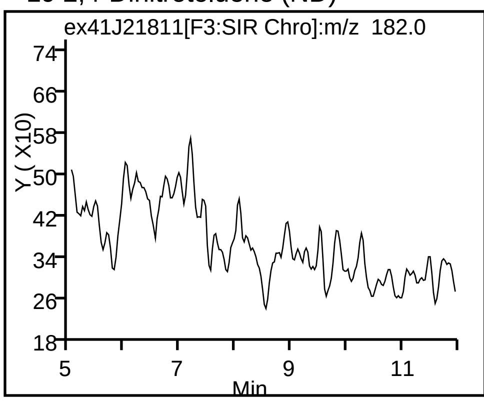
17 2,6-Dinitrotoluene (ND)



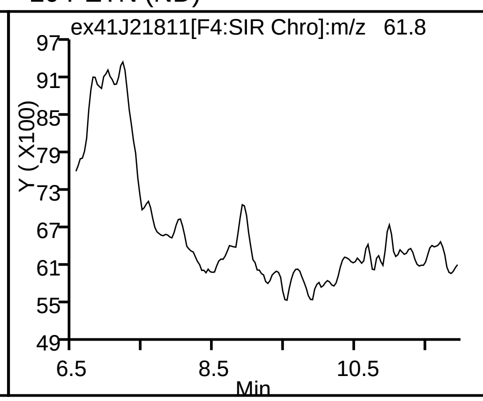
* 18 2,4-dinitrotoluene-d3



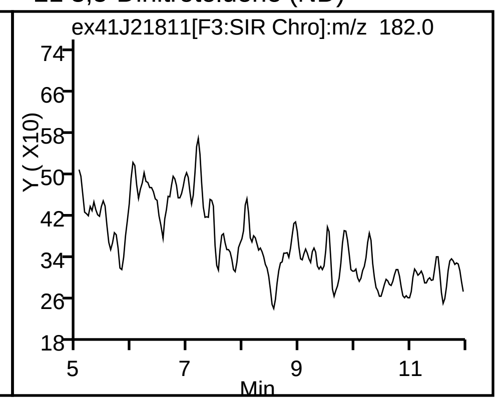
19 2,4-Dinitrotoluene (ND)



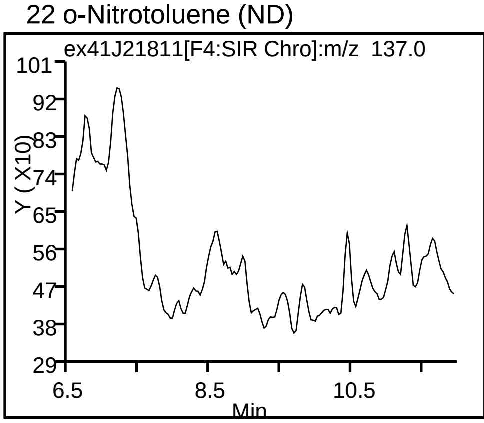
20 PETN (ND)



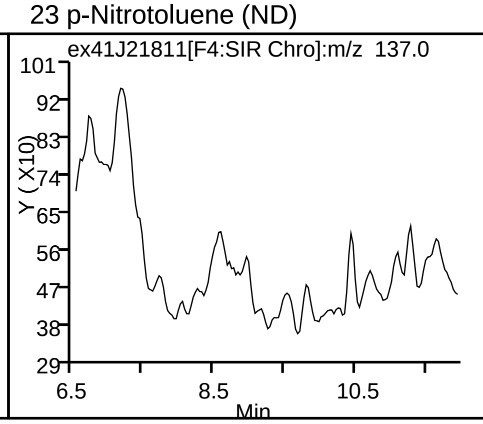
21 3,5-Dinitrotoluene (ND)



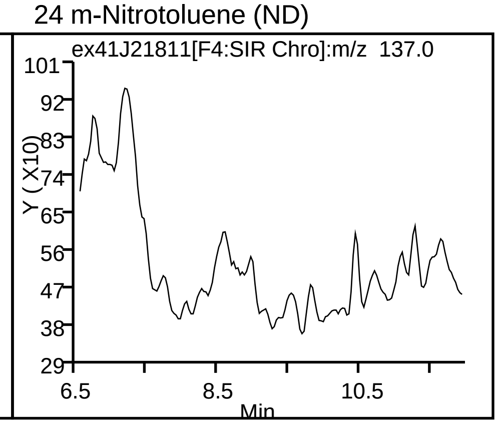
22 o-Nitrotoluene (ND)



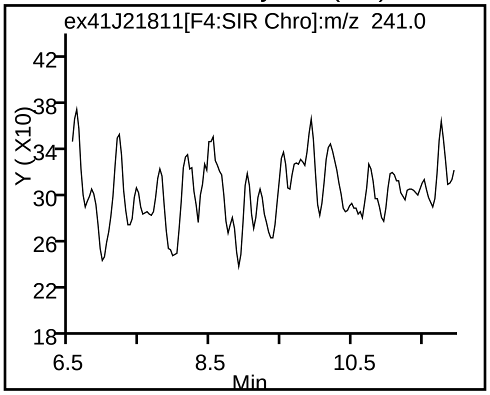
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP08 SD021   Lab Sample ID: 280-21902-4

Matrix: Solid   Lab File ID: ex41J21812.d

Analysis Method: 8321B   Date Collected: 10/19/2011 11:30

Extraction Method: 8330B   Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.27(g)   Date Analyzed: 11/04/2011 01:55

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	92		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21812.d		
Lims ID:	280-21902-B-4-B	Client ID:	SD021
Inject. Date:	04-Nov-2011 01:55:04	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-4-B 280-0002711-063		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	29
Lims Batch ID:	94612	Lims Sample ID:	63
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:33:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 04-Nov-2011 06:41:12

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		642900	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2327307	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1466859	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	661843	91.4			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4025422	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										1
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

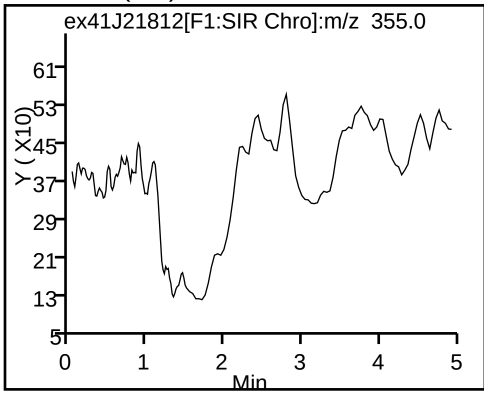
QC Flag Legend

Processing Flags
1 - Missing Peaks

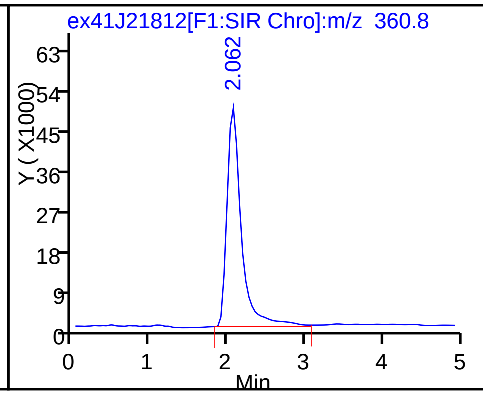
Report Date: 04-Nov-2011 07:37:19   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21812.d

Injection Date:	04-Nov-2011 01:55:04	Limit Group:	LC - 8321A Expl
Client ID:	SD021	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	63
Operator ID:		Injection Vol:	40.00 ul

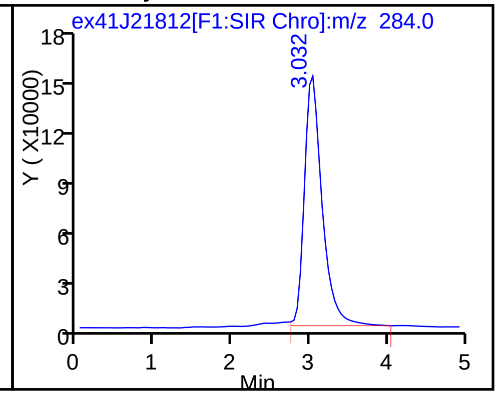
2 HMX (ND)



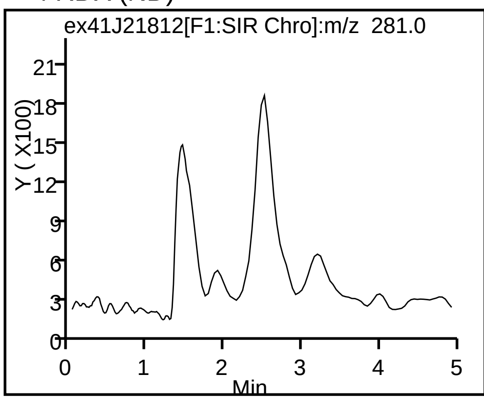
* 1 HMX-13C4



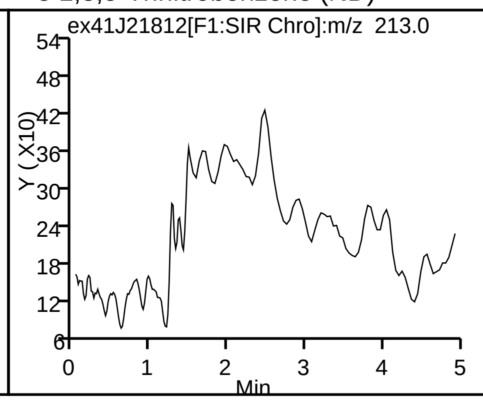
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



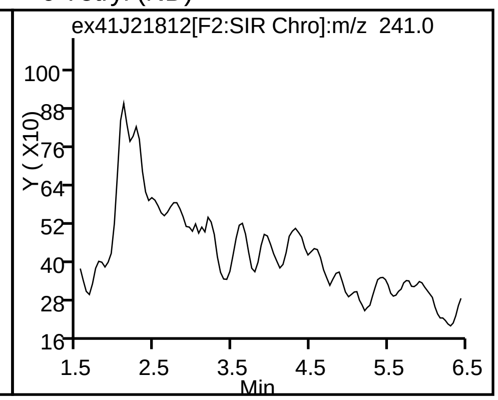
4 RDX (ND)



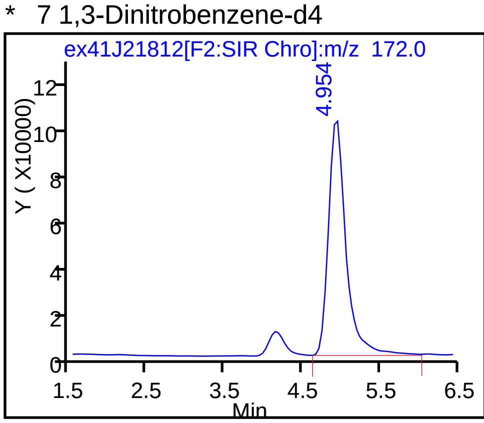
5 1,3,5-Trinitrobenzene (ND)



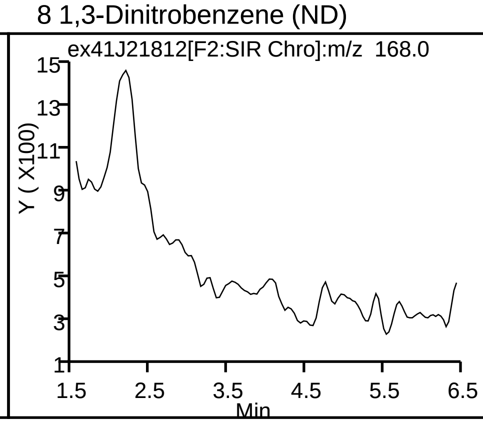
6 Tetryl (ND)



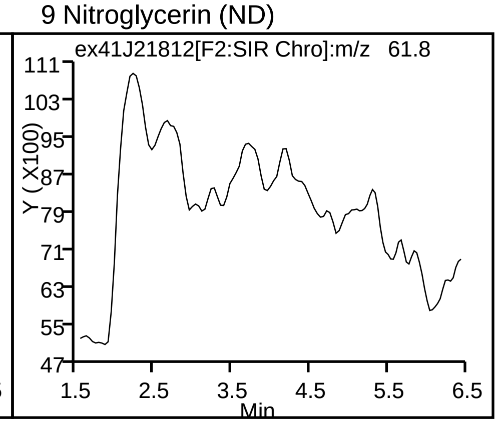
* 7 1,3-Dinitrobenzene-d4



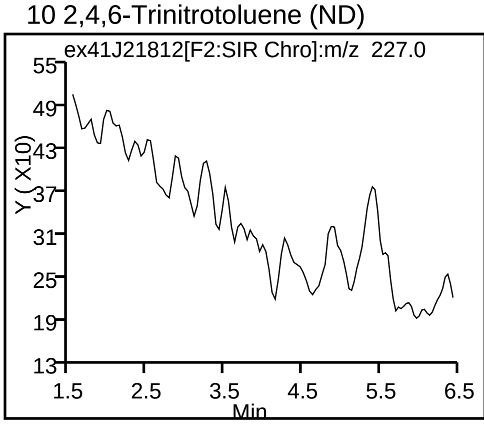
8 1,3-Dinitrobenzene (ND)



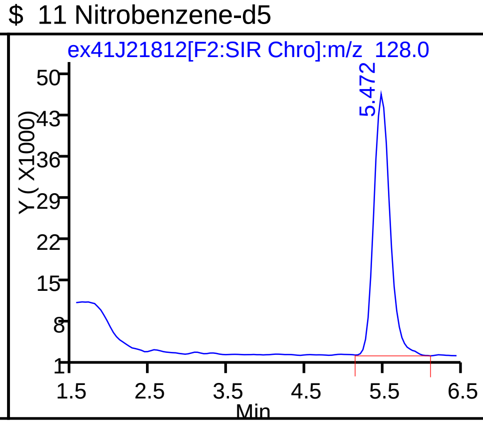
9 Nitroglycerin (ND)



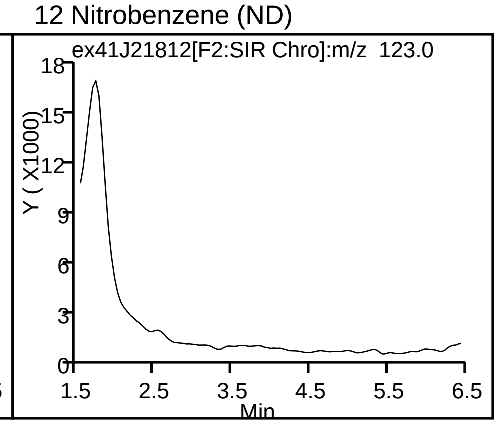
10 2,4,6-Trinitrotoluene (ND)



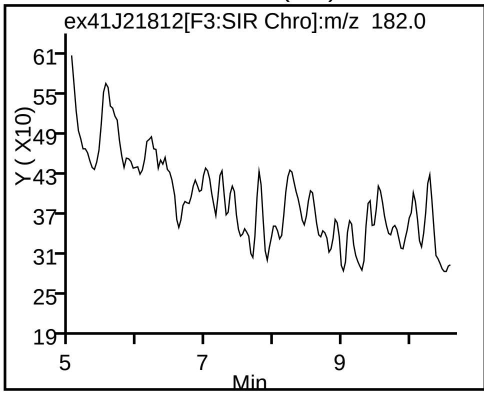
$ 11 Nitrobenzene-d5



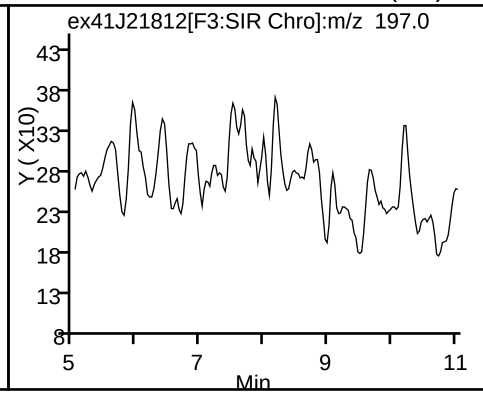
12 Nitrobenzene (ND)



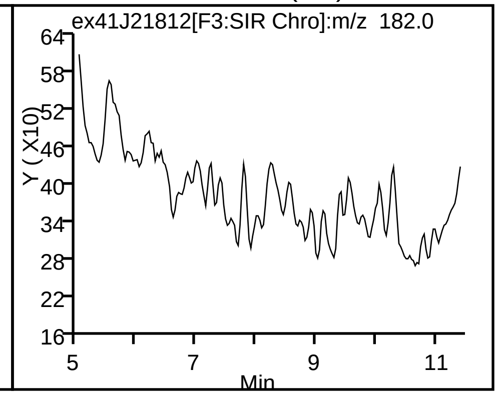
13 3,4-Dinitrotoluene (ND)



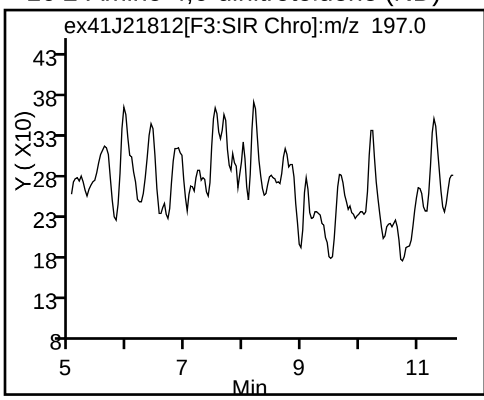
14 4-Amino-2,6-dinitrotoluene (ND)



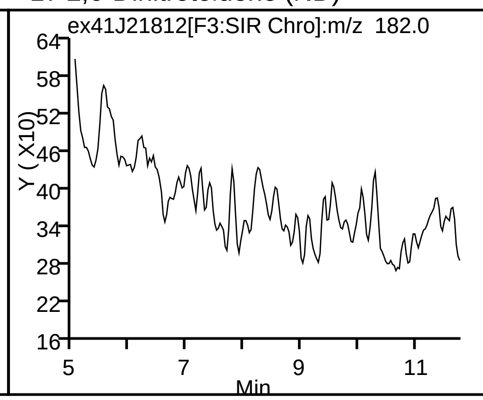
15 2,3-Dinitrotoluene (ND)



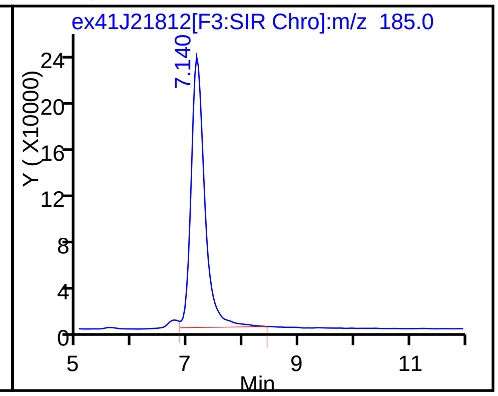
16 2-Amino-4,6-dinitrotoluene (ND)



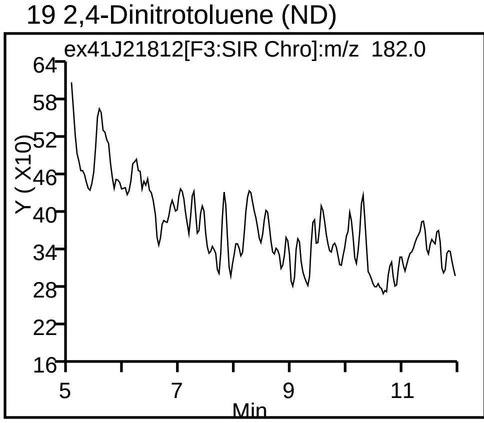
17 2,6-Dinitrotoluene (ND)



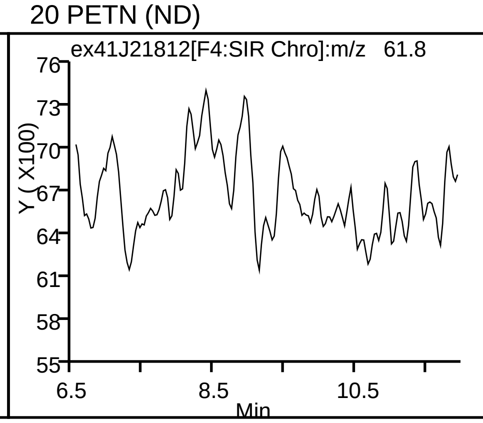
* 18 2,4-dinitrotoluene-d3



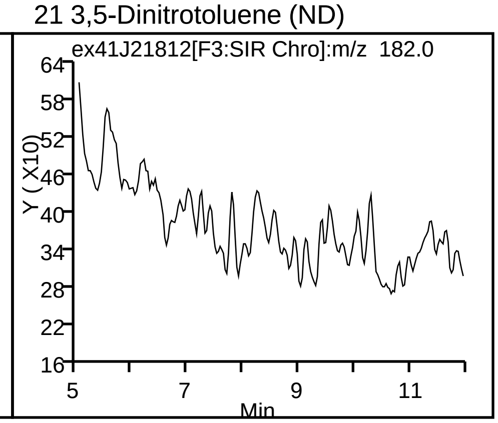
19 2,4-Dinitrotoluene (ND)



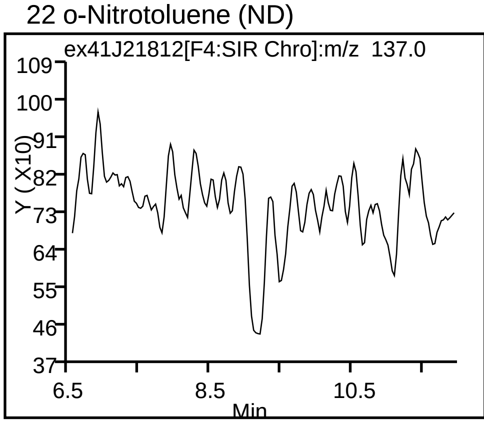
20 PETN (ND)



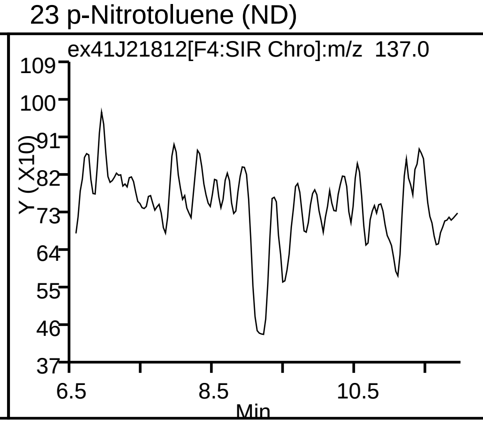
21 3,5-Dinitrotoluene (ND)



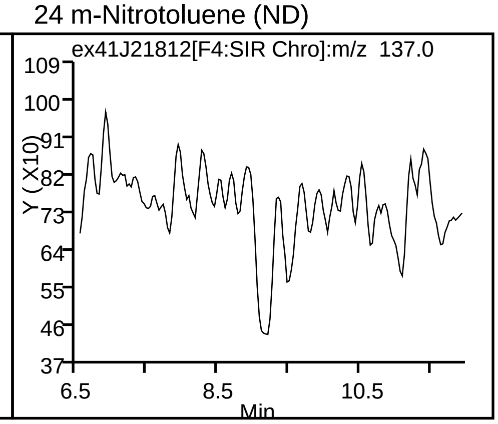
22 o-Nitrotoluene (ND)



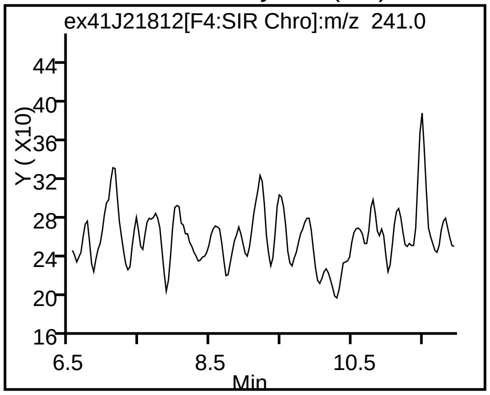
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP09 SD022 | Lab Sample ID: 280-21902-5

Matrix: Solid | Lab File ID: ex41J21813.d

Analysis Method: 8321B | Date Collected: 10/19/2011 11:25

Extraction Method: 8330B | Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.21(g) | Date Analyzed: 11/04/2011 02:08

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.098	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.098	0.024	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.098	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.098	0.024	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.098	0.024	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0050
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	84	M	68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21813.d		
Lims ID:	280-21902-B-5-B	Client ID:	SD022
Inject. Date:	04-Nov-2011 02:08:37	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-5-B 280-0002711-064		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	30
Lims Batch ID:	94612	Lims Sample ID:	64
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:33:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:41:31

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		648939	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2368270	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1474985	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										M
2	128.0	5.472	5.472	0.000	1.114	608323	83.5			M
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4733377	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0		8.163							
23 p-Nitrotoluene										
4	137.0		8.739							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

QC Flag Legend

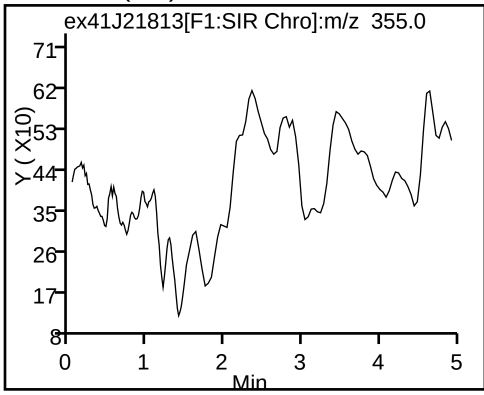
Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

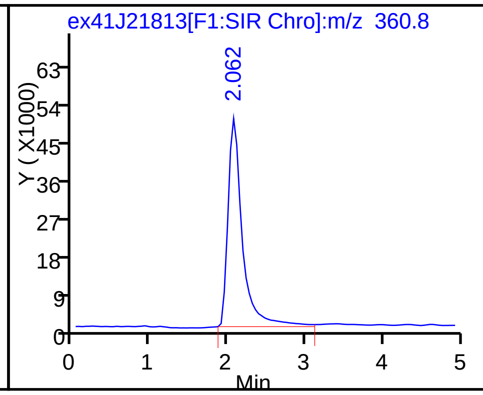
Report Date: 04-Nov-2011 07:37:19 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21813.d

Injection Date:	04-Nov-2011 02:08:37	Limit Group:	LC - 8321A Expl
Client ID:	SD022	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	64
Operator ID:		Injection Vol:	40.00 ul

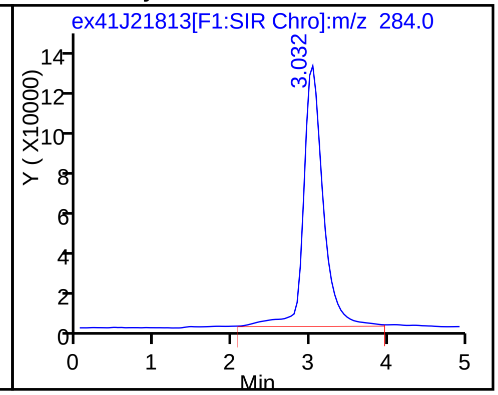
2 HMX (ND)



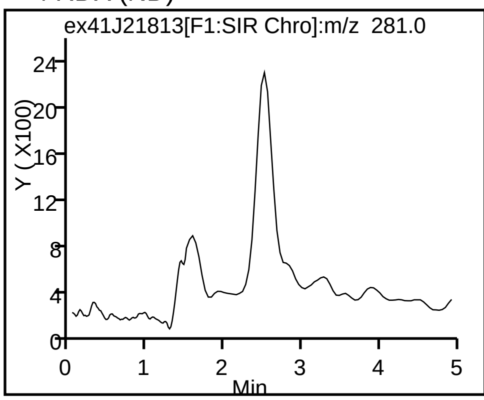
* 1 HMX-13C4



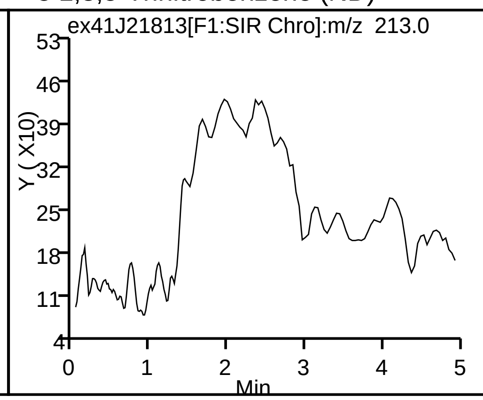
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



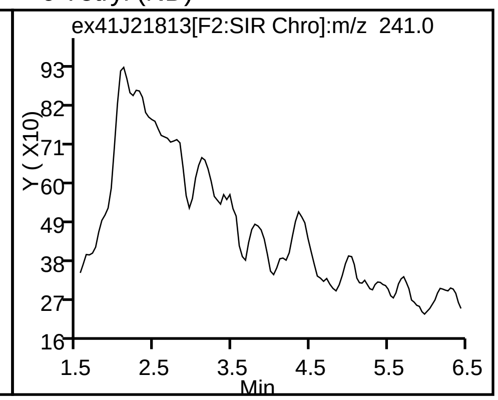
4 RDX (ND)



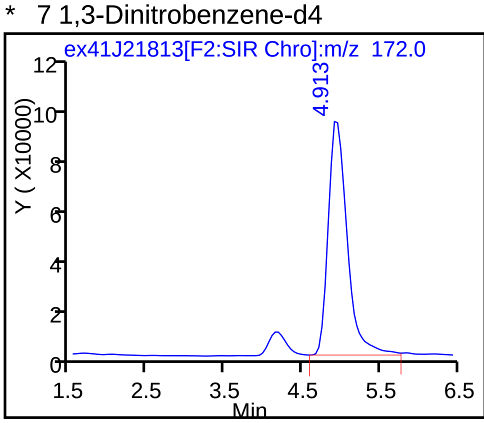
5 1,3,5-Trinitrobenzene (ND)



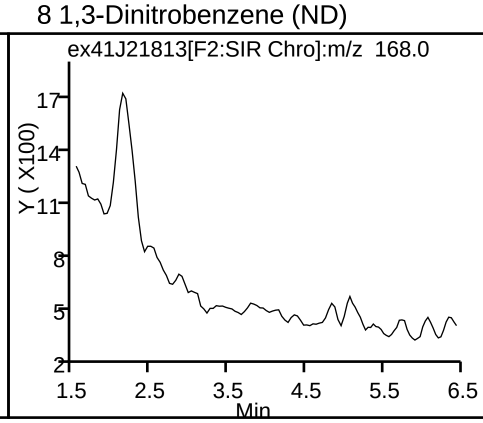
6 Tetryl (ND)



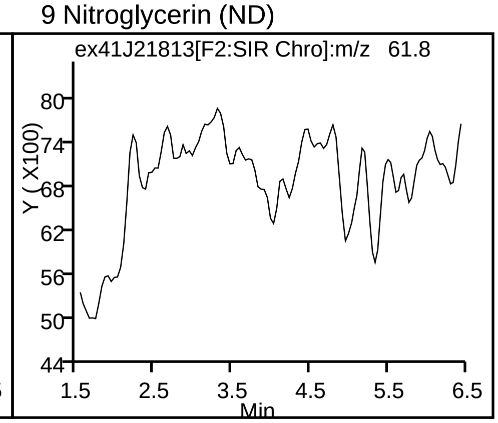
* 7 1,3-Dinitrobenzene-d4



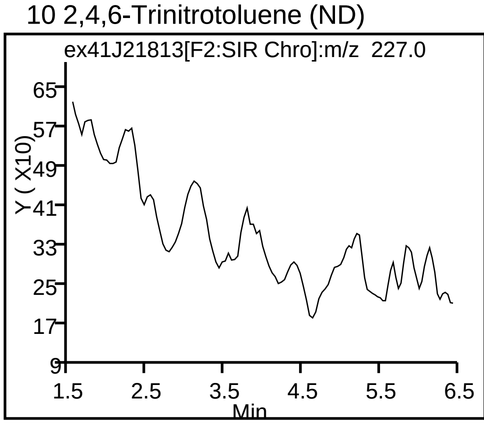
8 1,3-Dinitrobenzene (ND)



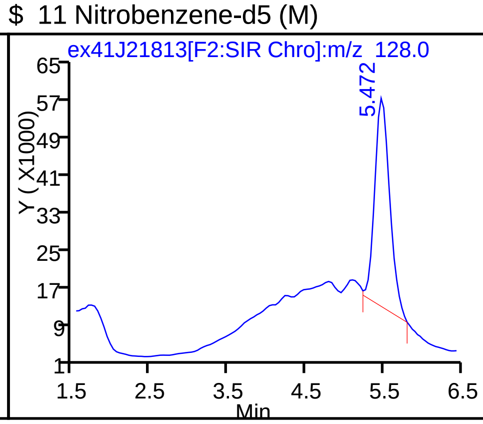
9 Nitroglycerin (ND)



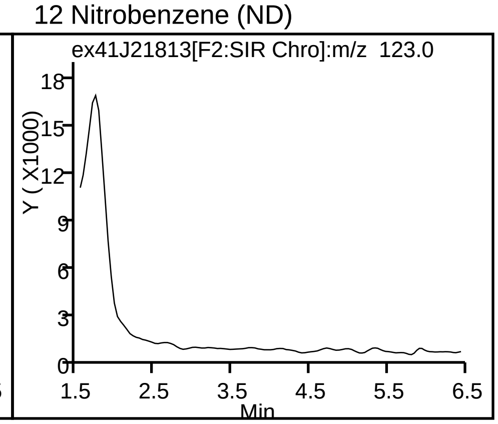
10 2,4,6-Trinitrotoluene (ND)



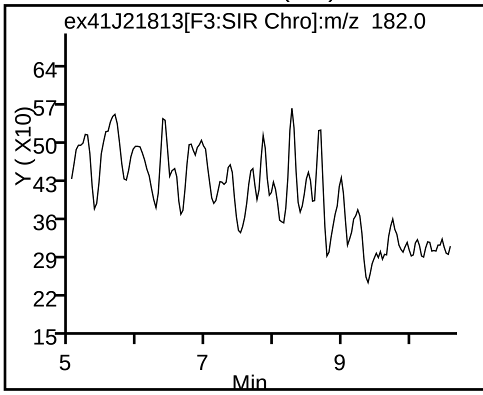
$ 11 Nitrobenzene-d5 (M)



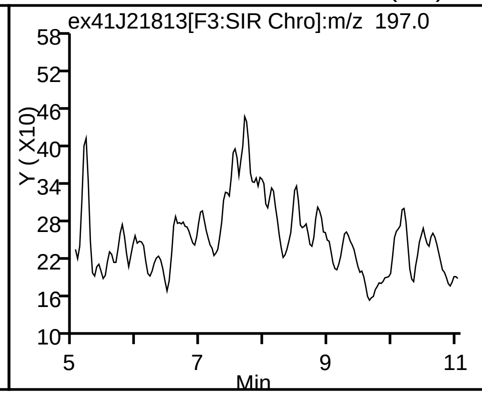
12 Nitrobenzene (ND)



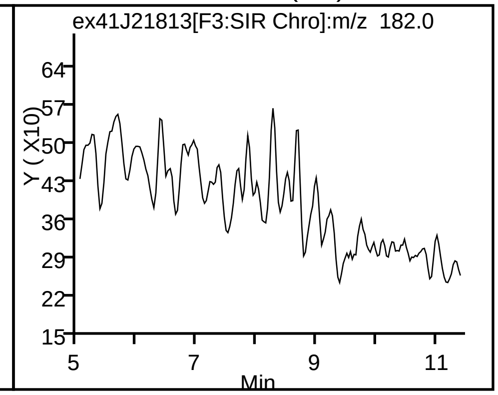
13 3,4-Dinitrotoluene (ND)



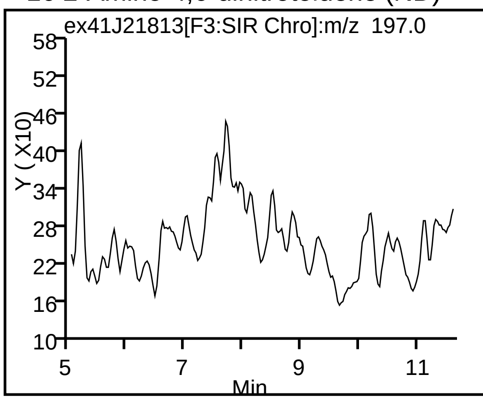
14 4-Amino-2,6-dinitrotoluene (ND)



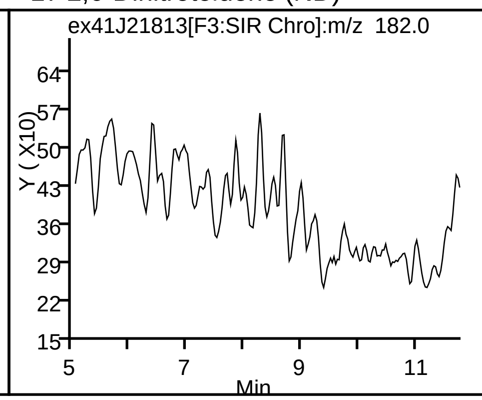
15 2,3-Dinitrotoluene (ND)



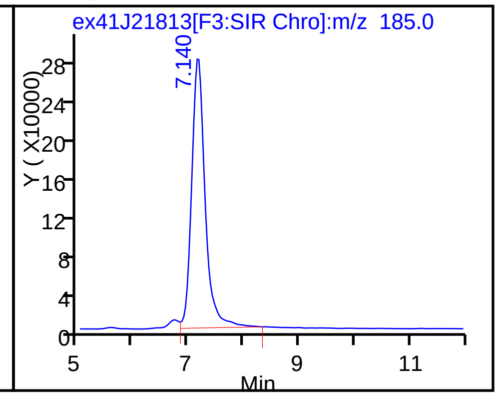
16 2-Amino-4,6-dinitrotoluene (ND)



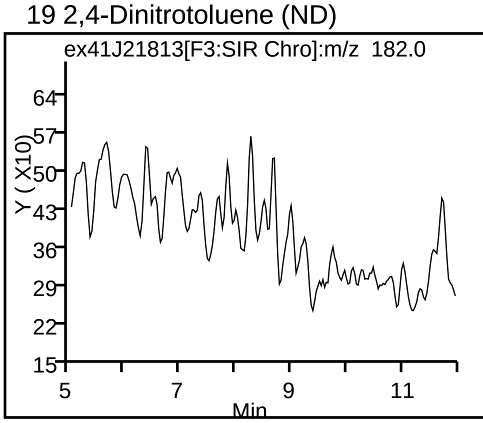
17 2,6-Dinitrotoluene (ND)



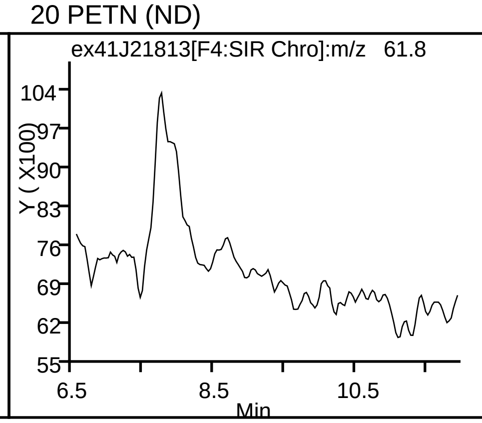
* 18 2,4-dinitrotoluene-d3



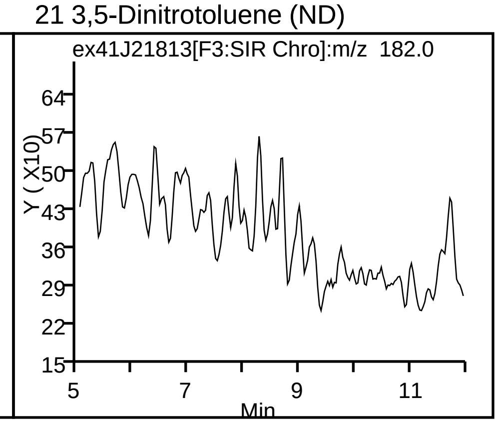
19 2,4-Dinitrotoluene (ND)



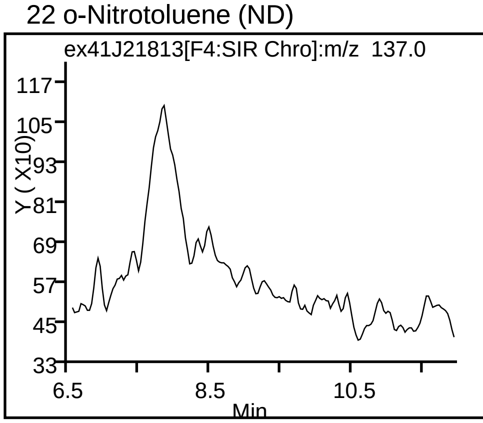
20 PETN (ND)



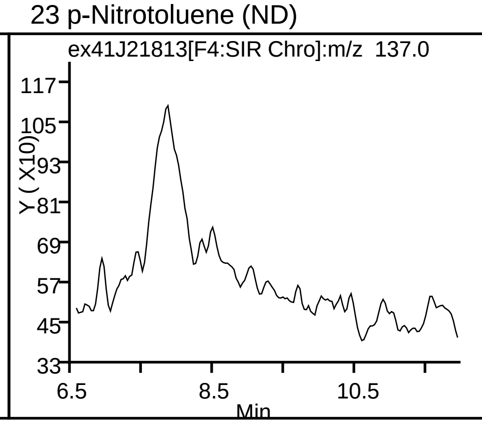
21 3,5-Dinitrotoluene (ND)



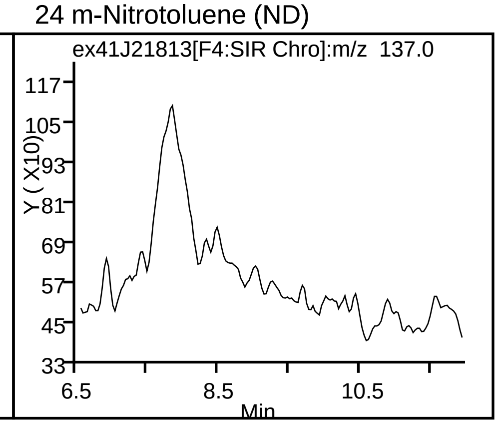
22 o-Nitrotoluene (ND)



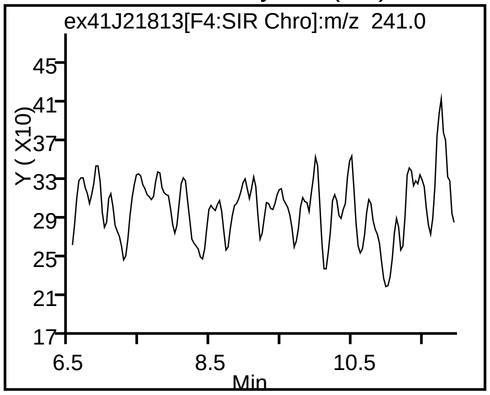
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



Report Date: 04-Nov-2011 07:37:19 Chrom Revision: 1.2 13-Jul-2011 10:43:06

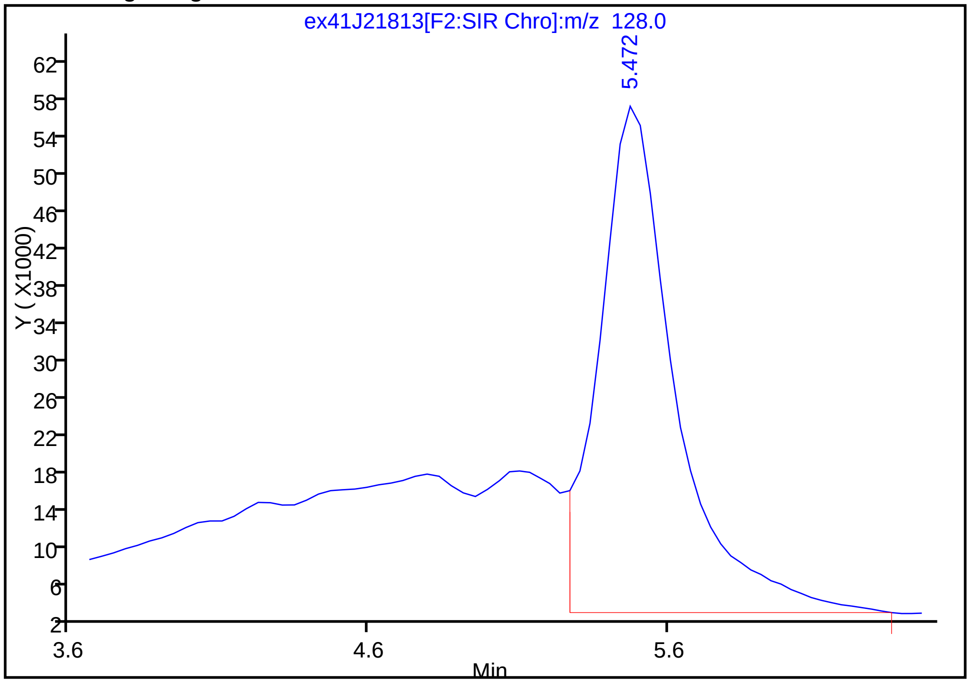
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21813.d		
Injection Date:	04-Nov-2011 02:08:37	Limit Group:	LC - 8321A Expl
Client ID:	SD022	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	64
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.47, Det: F2:SIR

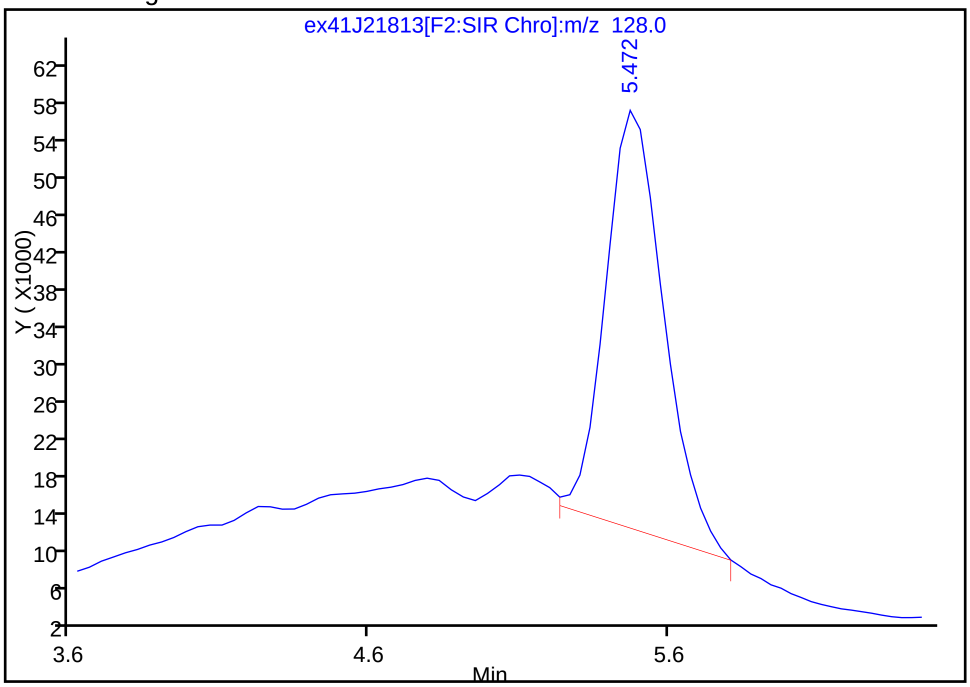
Processing Integration Results

RT: 5.47
Response: 971543
Amount: 133.7068



Manual Integration Results

RT: 5.47
Response: 608323
Amount: 83.505338



Reviewer: meyera, 04-Nov-2011 06:41:31
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP10 SD023 Lab Sample ID: 280-21902-6

Matrix: Solid Lab File ID: ex41J21814.d

Analysis Method: 8321B Date Collected: 10/19/2011 11:35

Extraction Method: 8330B Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.10(g) Date Analyzed: 11/04/2011 02:22

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	94	M	68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21814.d		
Lims ID:	280-21902-A-6-C	Client ID:	SD023
Inject. Date:	04-Nov-2011 02:22:12	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-6-C 280-0002711-065		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	31
Lims Batch ID:	94612	Lims Sample ID:	65
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:33:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:41:46

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		744854	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2317457	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1533485	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										M
2	128.0	5.472	5.472	0.000	1.114	700752	92.6			M
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4291951	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										1
4	61.8		7.646							
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

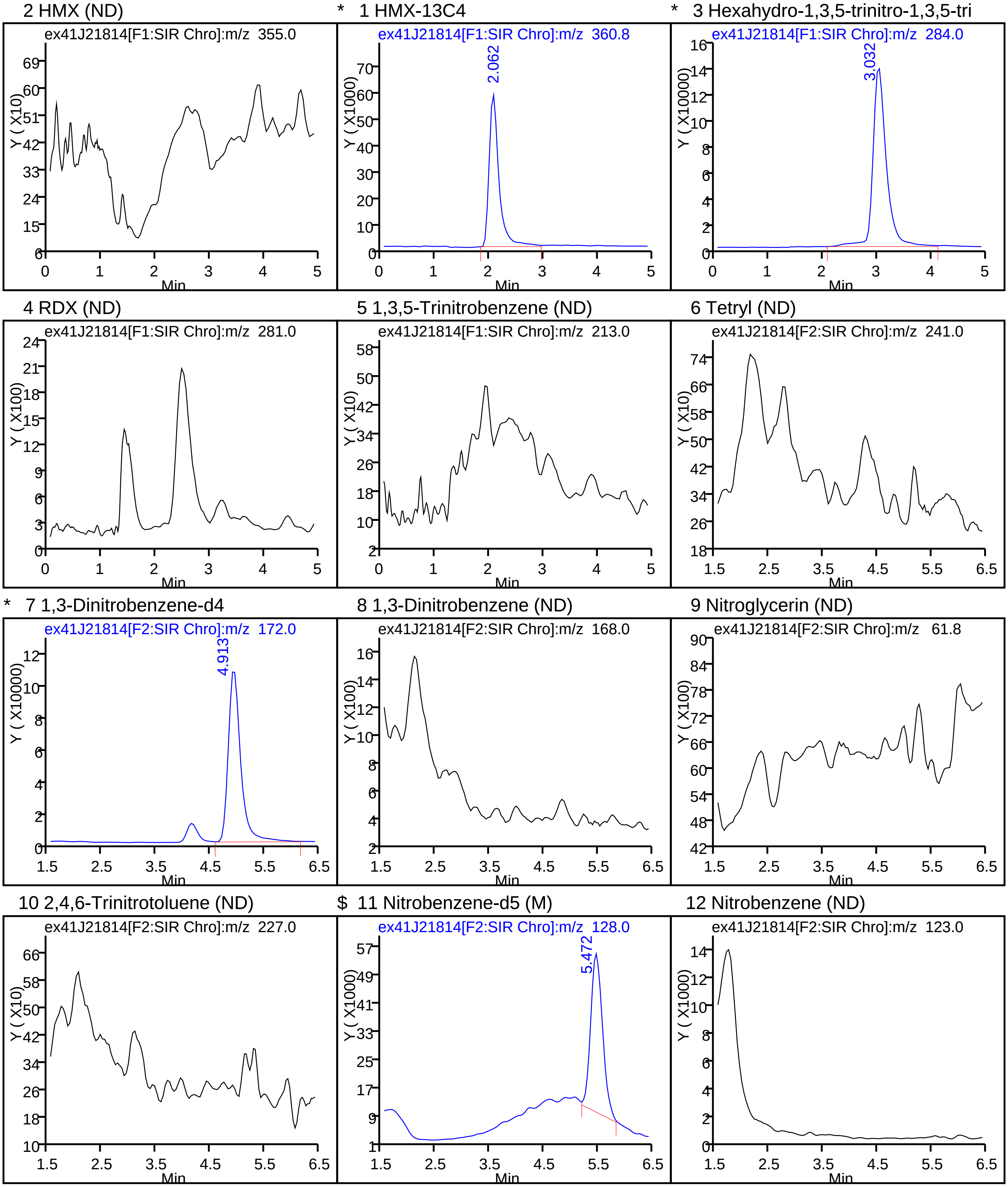
QC Flag Legend

Processing Flags
1 - Missing Peaks

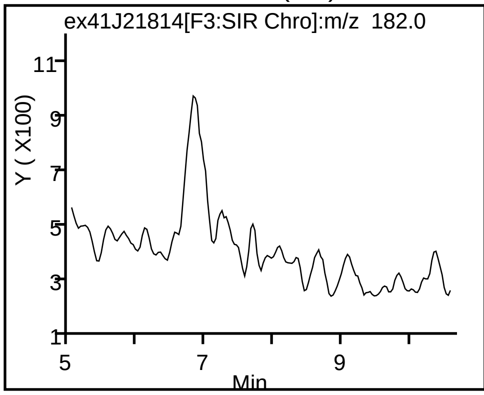
Review Flags
M - Manually Integrated

Report Date: 04-Nov-2011 07:37:20   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21814.d

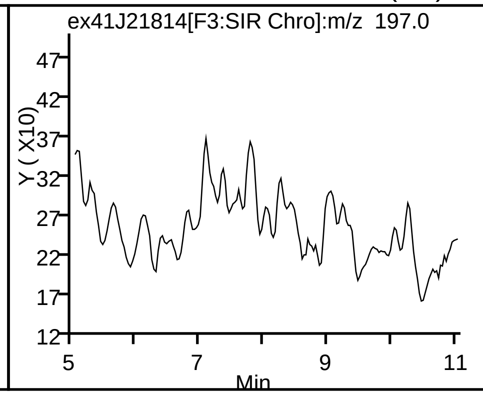
Injection Date:	04-Nov-2011 02:22:12	Limit Group:	LC - 8321A Expl
Client ID:	SD023	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	65
Operator ID:		Injection Vol:	40.00 ul



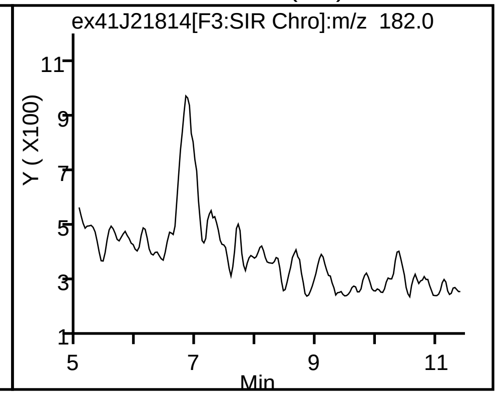
13 3,4-Dinitrotoluene (ND)



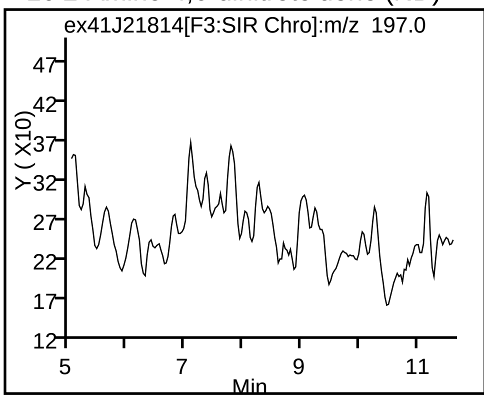
14 4-Amino-2,6-dinitrotoluene (ND)



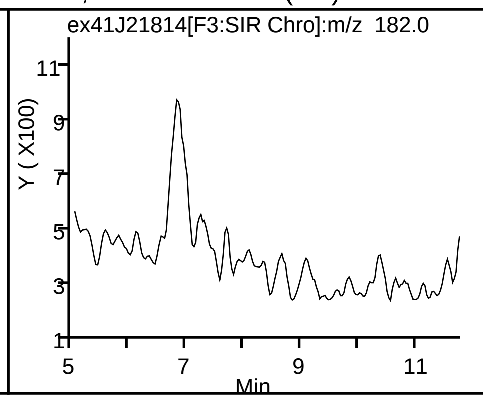
15 2,3-Dinitrotoluene (ND)



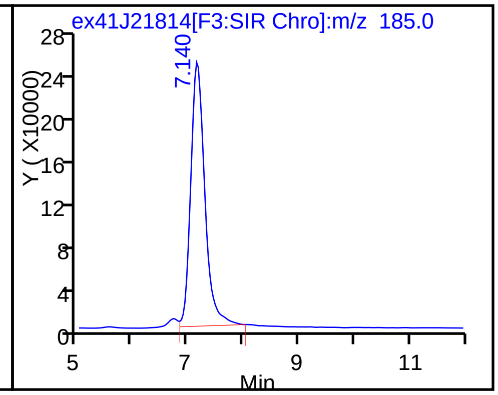
16 2-Amino-4,6-dinitrotoluene (ND)



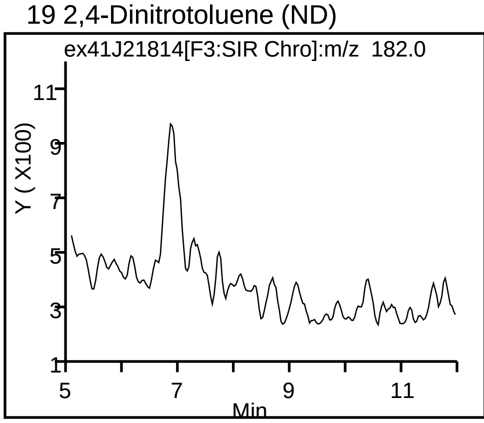
17 2,6-Dinitrotoluene (ND)



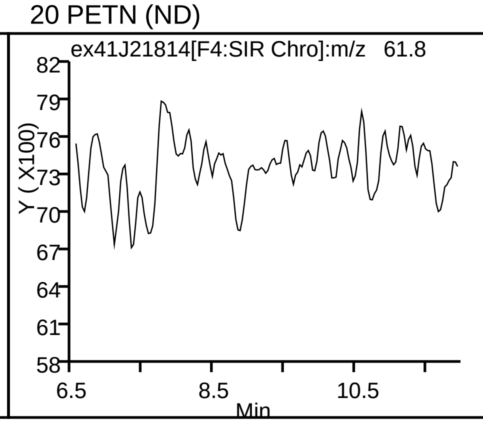
* 18 2,4-dinitrotoluene-d3



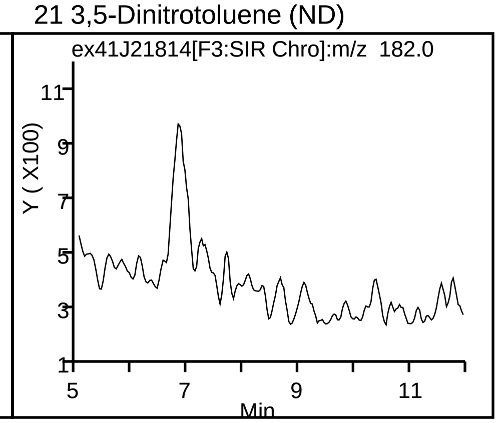
19 2,4-Dinitrotoluene (ND)



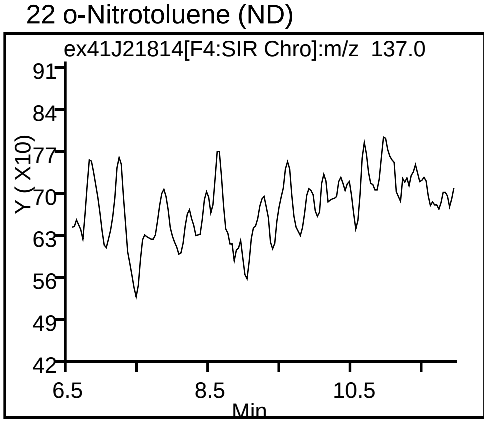
20 PETN (ND)



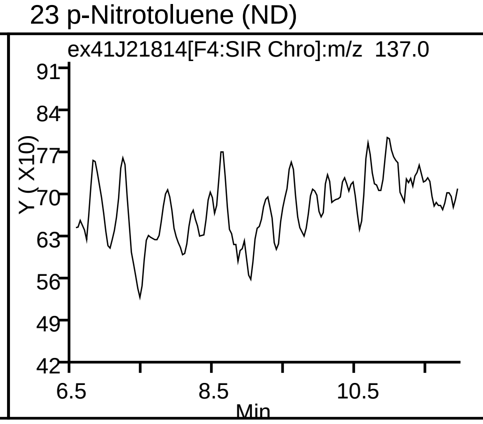
21 3,5-Dinitrotoluene (ND)



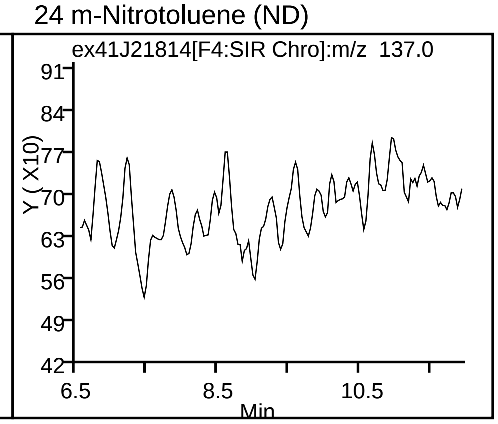
22 o-Nitrotoluene (ND)



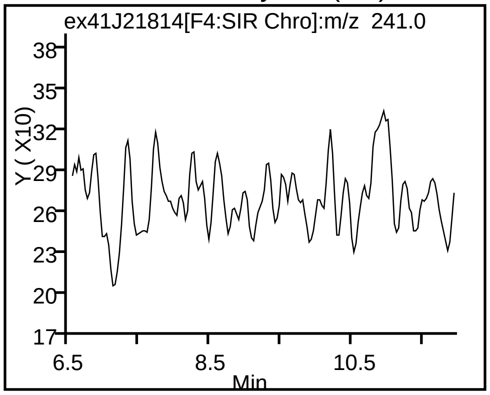
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



Report Date: 04-Nov-2011 07:37:20

Chrom Revision: 1.2 13-Jul-2011 10:43:06

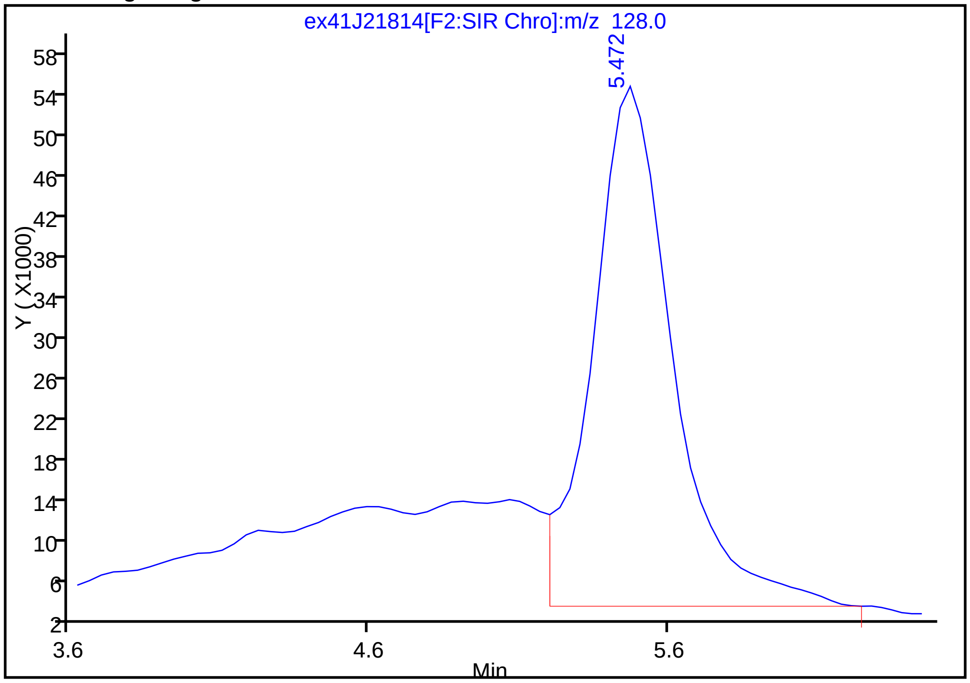
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21814.d		
Injection Date:	04-Nov-2011 02:22:12	Limit Group:	LC - 8321A Expl
Client ID:	SD023	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	65
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.47, Det: F2:SIR

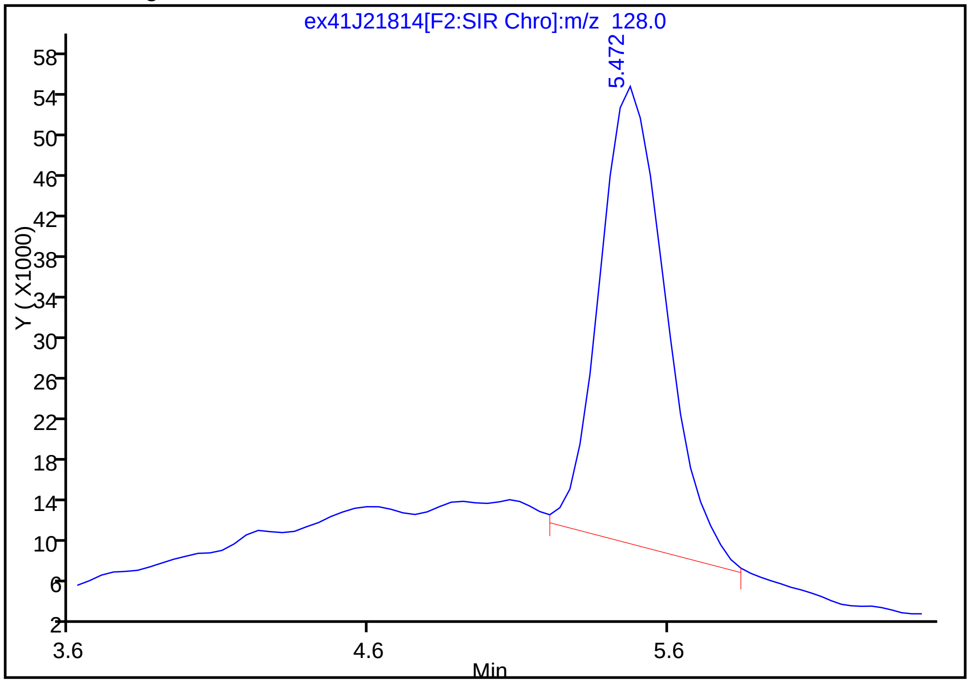
Processing Integration Results

RT: 5.47
Response: 970317
Amount: 128.4213



Manual Integration Results

RT: 5.47
Response: 700752
Amount: 92.585399



Reviewer: meyera, 04-Nov-2011 06:41:46

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP11 SD024 Lab Sample ID: 280-21902-7

Matrix: Solid Lab File ID: ex41J21837.d

Analysis Method: 8321B Date Collected: 10/19/2011 11:40

Extraction Method: 8330B Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.10(g) Date Analyzed: 11/04/2011 07:37

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94725 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U J	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21837.d		
Lims ID:	280-21902-A-7-C	Client ID:	SD024
Inject. Date:	04-Nov-2011 07:37:55	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-7-C 280-0002711-088		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	32
Lims Batch ID:	94725	Lims Sample ID:	88
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 08:41:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		628433	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1674633	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1454453	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	619051	86.2			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.654							
17	2,6-Dinitrotoluene									1
3	182.0		6.806							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.140	7.170	-0.030		3907305	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.201							
20	PETN									
4	61.8		7.677							
21	3,5-Dinitrotoluene									1
3	182.0		7.808							
22	o-Nitrotoluene									1
4	137.0		8.193							
23	p-Nitrotoluene									1
4	137.0		8.739							
24	m-Nitrotoluene									
4	137.0		9.377							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.258							

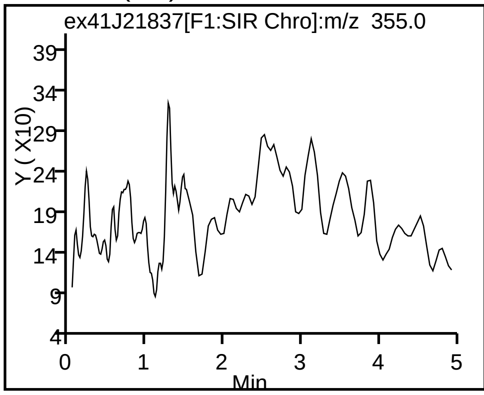
QC Flag Legend

Processing Flags
1 - Missing Peaks

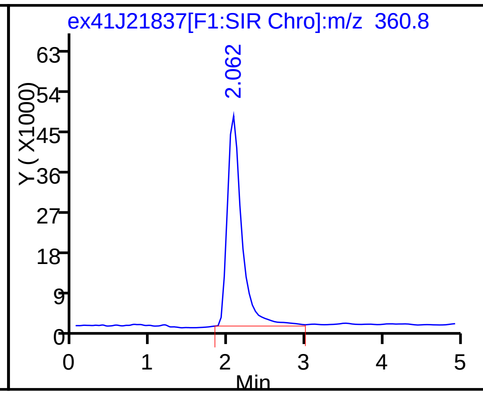
Report Date: 04-Nov-2011 08:41:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21837.d		
Injection Date:	04-Nov-2011 07:37:55	Limit Group:	LC - 8321A Expl
Client ID:	SD024	Instrument ID:	LC_LCMS4
Lims Batch ID:	94725	Lims Sample ID:	88
Operator ID:		Injection Vol:	40.00 ul

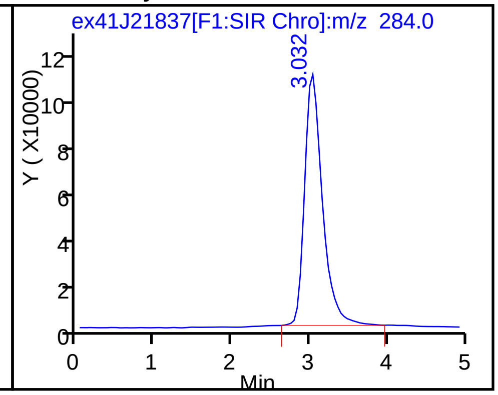
2 HMX (ND)



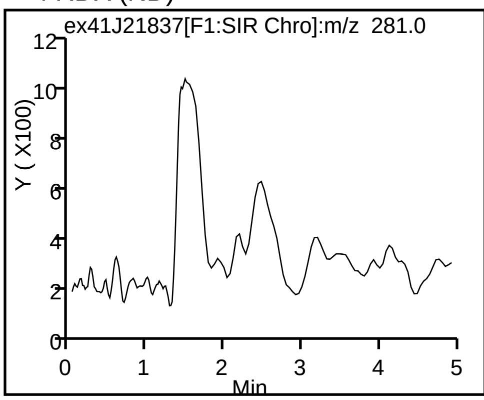
* 1 HMX-13C4



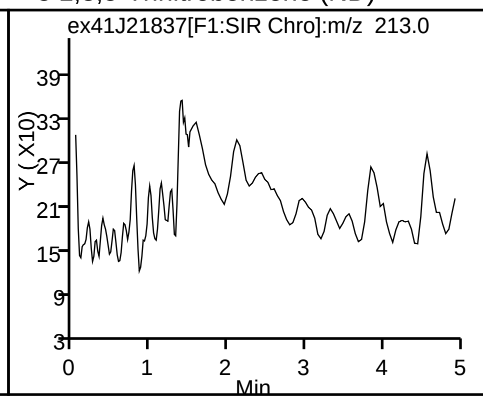
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



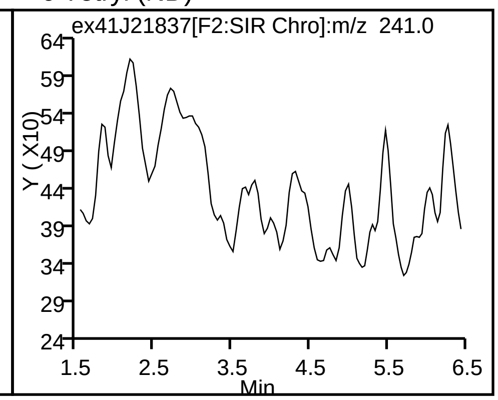
4 RDX (ND)



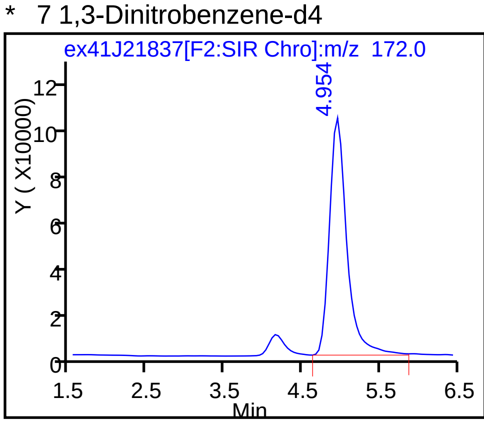
5 1,3,5-Trinitrobenzene (ND)



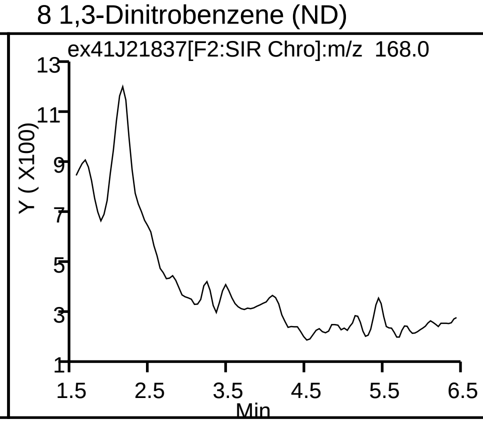
6 Tetryl (ND)



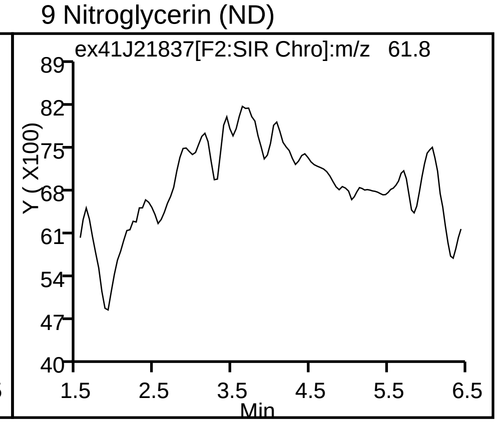
* 7 1,3-Dinitrobenzene-d4



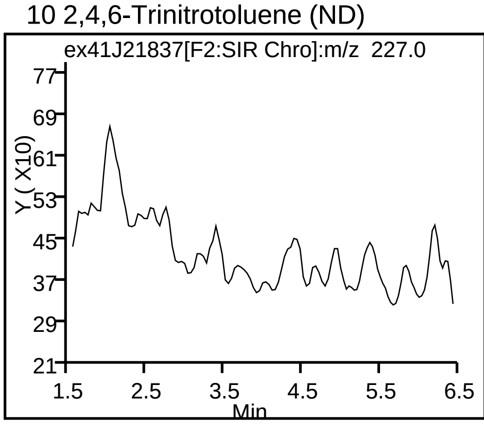
8 1,3-Dinitrobenzene (ND)



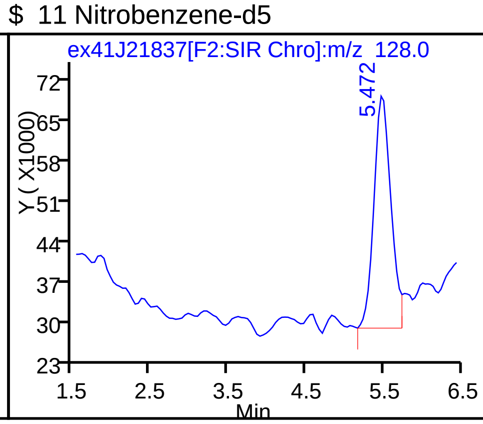
9 Nitroglycerin (ND)



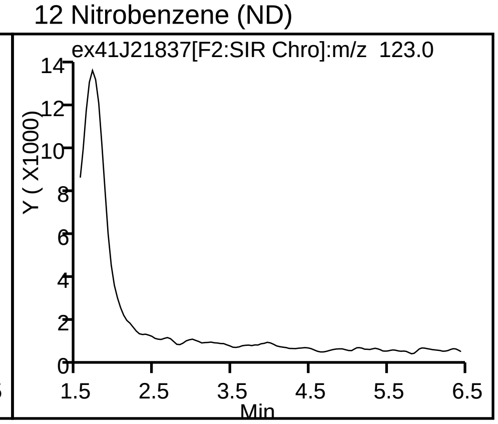
10 2,4,6-Trinitrotoluene (ND)



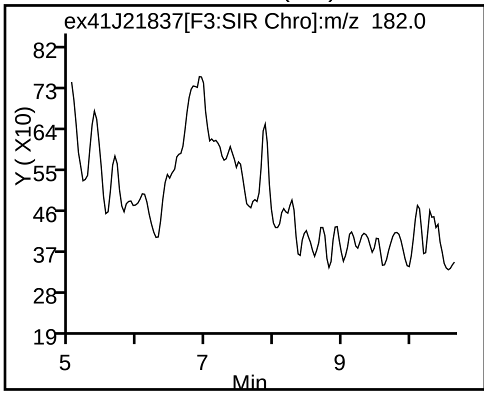
$ 11 Nitrobenzene-d5



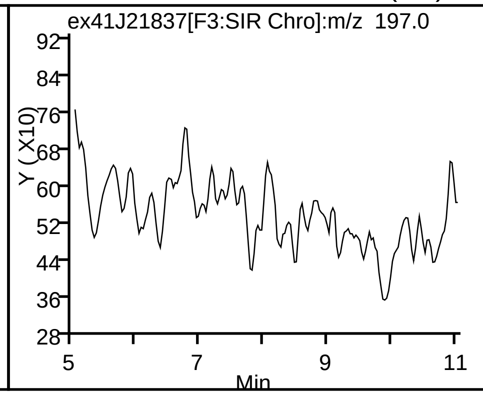
12 Nitrobenzene (ND)



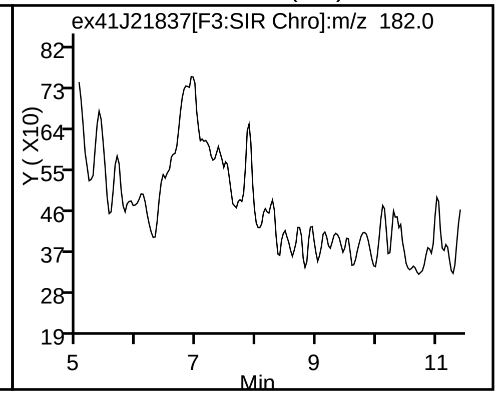
13 3,4-Dinitrotoluene (ND)



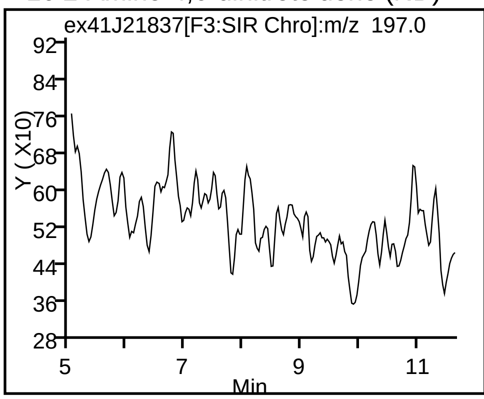
14 4-Amino-2,6-dinitrotoluene (ND)



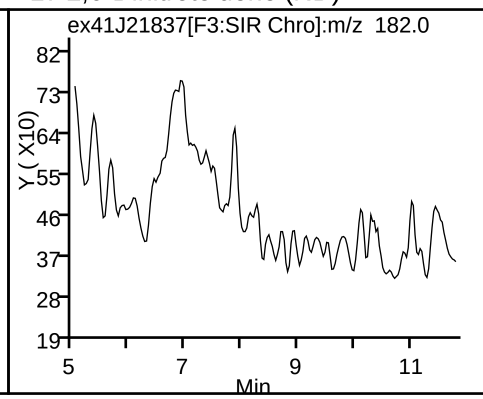
15 2,3-Dinitrotoluene (ND)



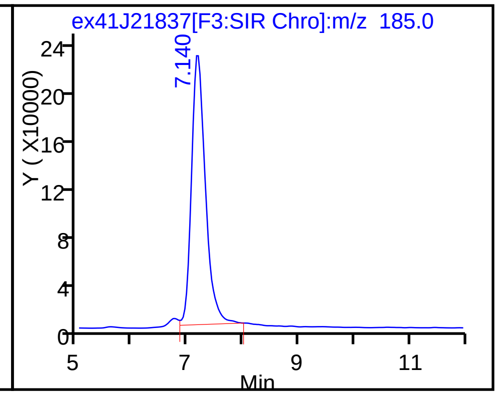
16 2-Amino-4,6-dinitrotoluene (ND)



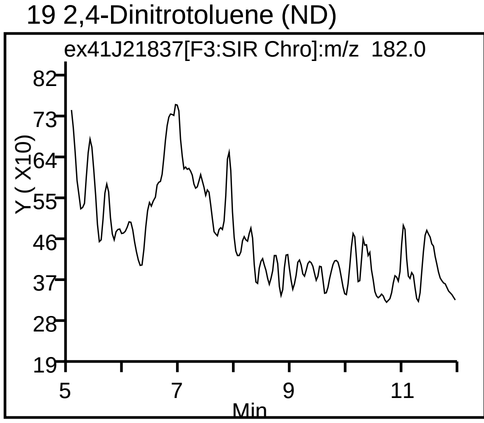
17 2,6-Dinitrotoluene (ND)



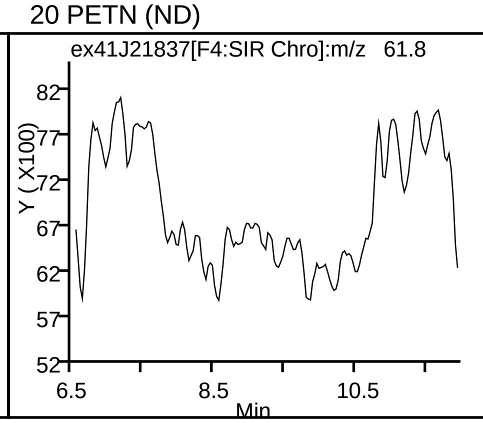
* 18 2,4-dinitrotoluene-d3



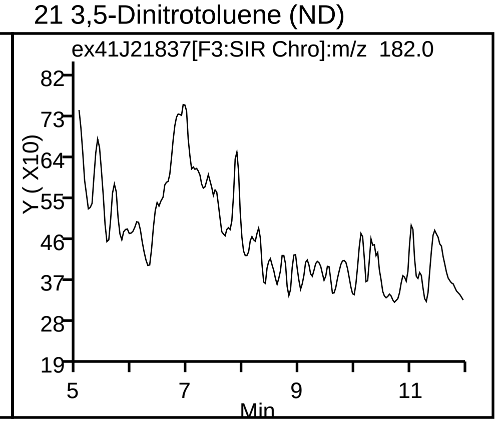
19 2,4-Dinitrotoluene (ND)



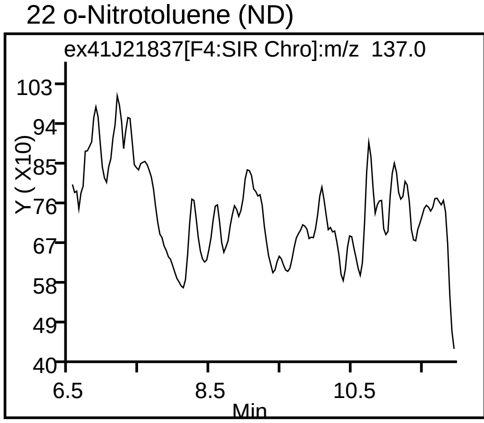
20 PETN (ND)



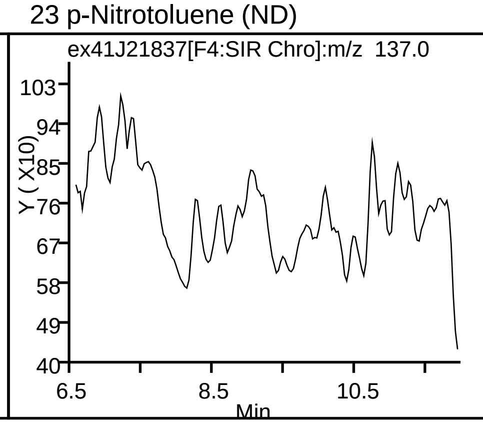
21 3,5-Dinitrotoluene (ND)



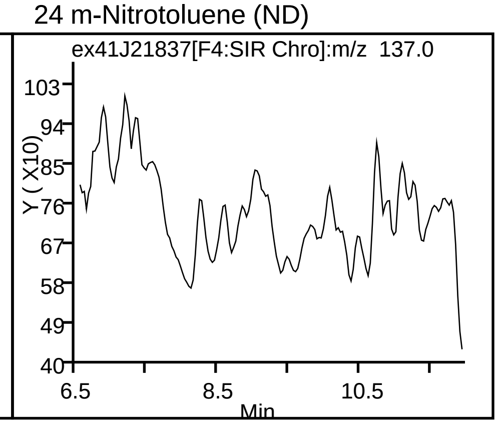
22 o-Nitrotoluene (ND)



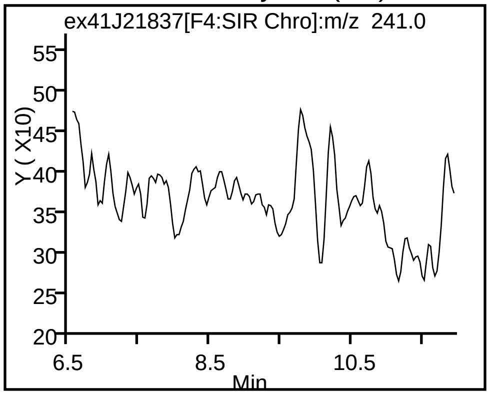
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP12 SD025   Lab Sample ID: 280-21902-8

Matrix: Solid   Lab File ID: ex41J21819.d

Analysis Method: 8321B   Date Collected: 10/19/2011 11:45

Extraction Method: 8330B   Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.16(g)   Date Analyzed: 11/04/2011 03:30

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	88		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21819.d		
Lims ID:	280-21902-B-8-B	Client ID:	SD025
Inject. Date:	04-Nov-2011 03:30:34	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-8-B 280-0002711-070		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	35
Lims Batch ID:	94612	Lims Sample ID:	70
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:20	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:42:59

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		747539	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	3.032	-0.041		2253981	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.954	-0.041		1597201	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	687467	87.2			
12 Nitrobenzene										
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.655							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.171	-0.031		5088658	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.232							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.740							
24 m-Nitrotoluene										1
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

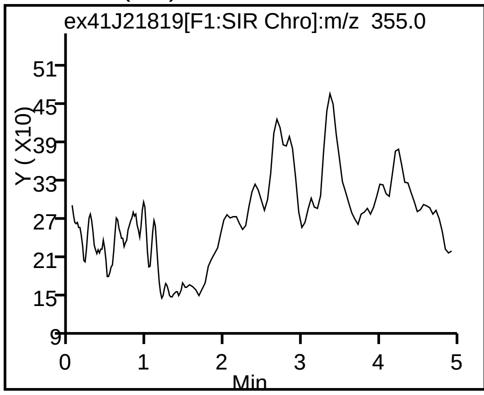
QC Flag Legend

Processing Flags
1 - Missing Peaks

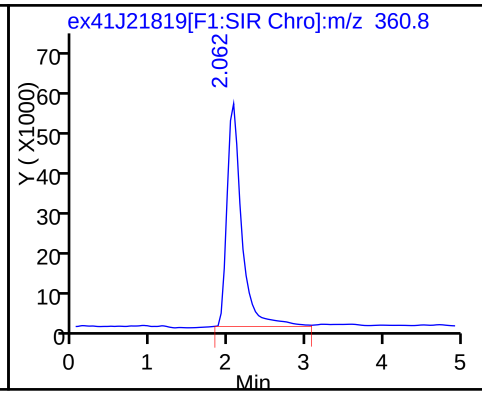
Report Date: 04-Nov-2011 07:37:23 | Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21819.d

Injection Date:	04-Nov-2011 03:30:34	Limit Group:	LC - 8321A Expl
Client ID:	SD025	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	70
Operator ID:		Injection Vol:	40.00 ul

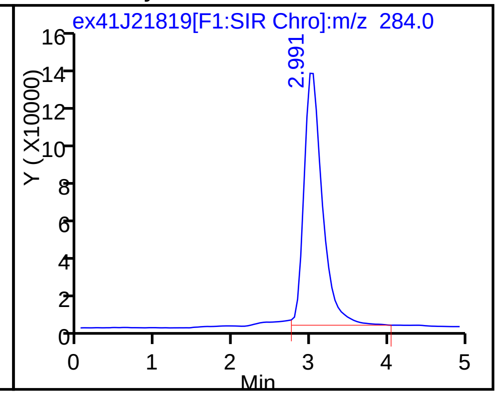
2 HMX (ND)



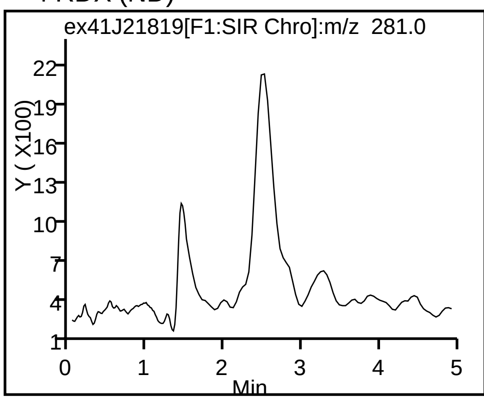
* 1 HMX-13C4



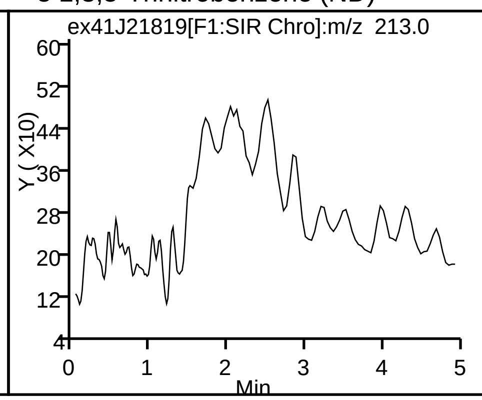
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



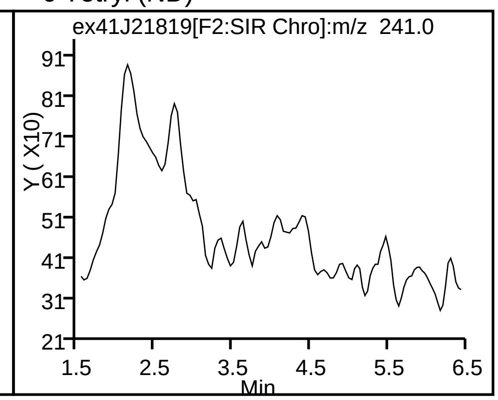
4 RDX (ND)



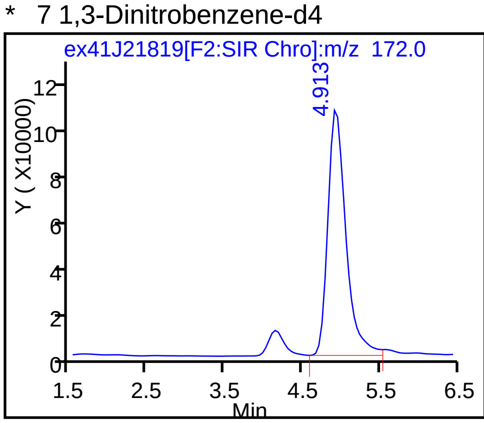
5 1,3,5-Trinitrobenzene (ND)



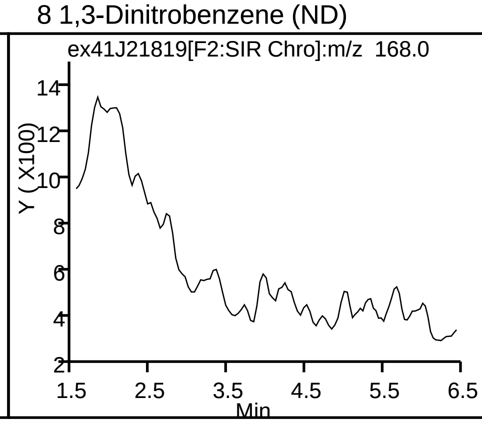
6 Tetryl (ND)



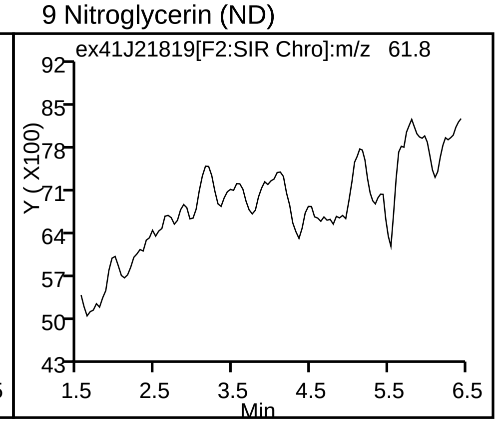
* 7 1,3-Dinitrobenzene-d4



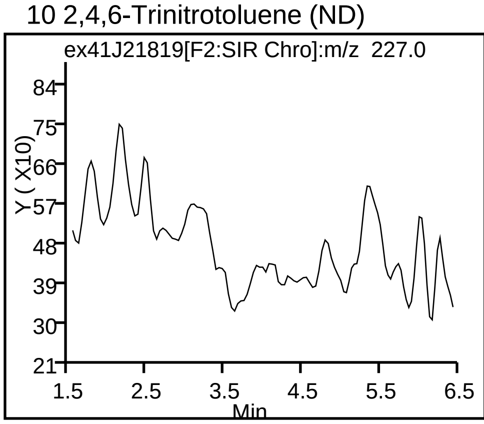
8 1,3-Dinitrobenzene (ND)



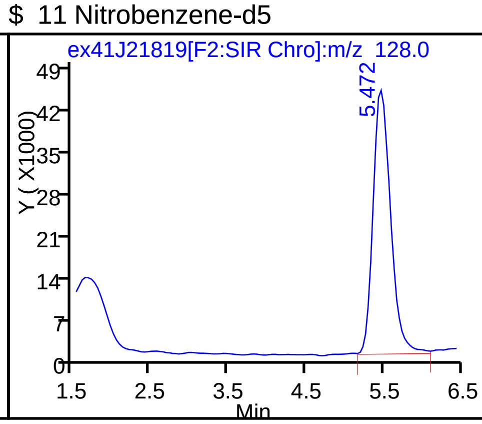
9 Nitroglycerin (ND)



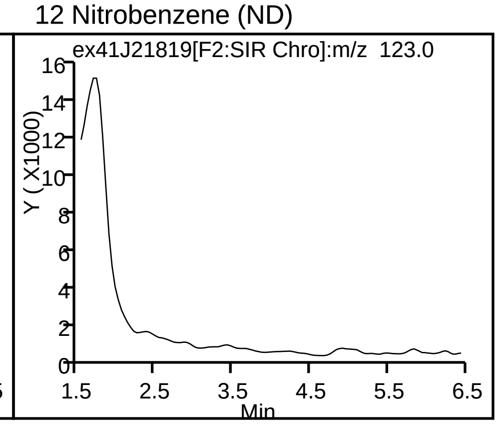
10 2,4,6-Trinitrotoluene (ND)



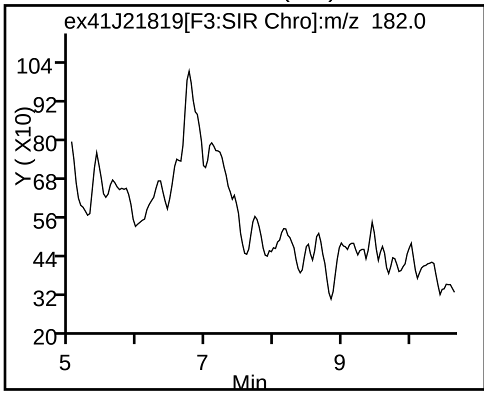
$ 11 Nitrobenzene-d5



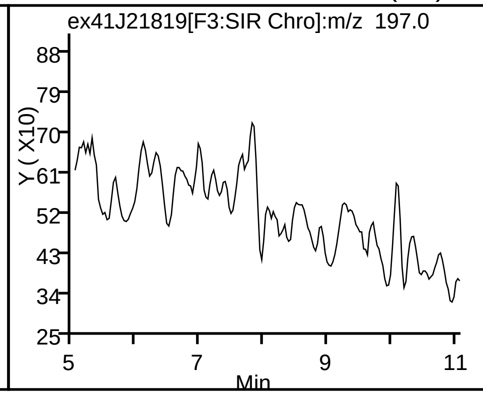
12 Nitrobenzene (ND)



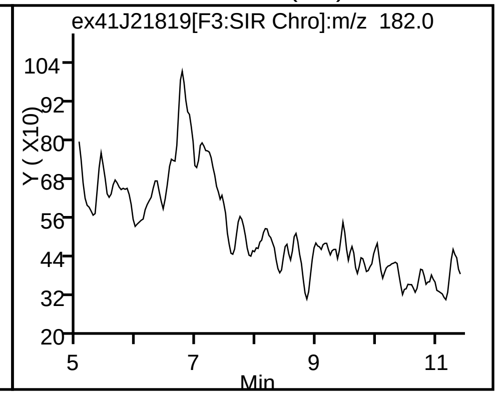
13 3,4-Dinitrotoluene (ND)



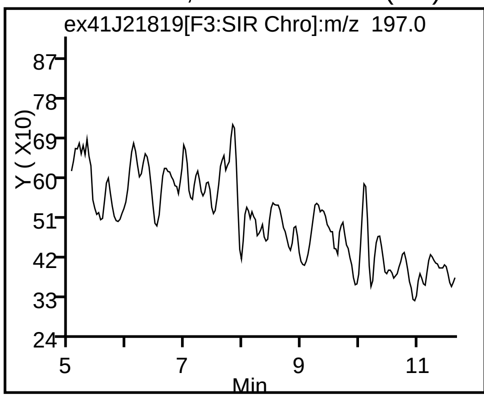
14 4-Amino-2,6-dinitrotoluene (ND)



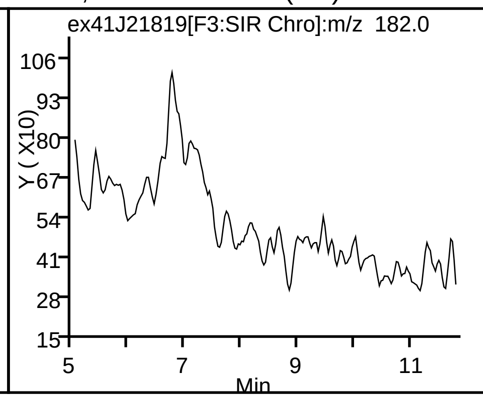
15 2,3-Dinitrotoluene (ND)



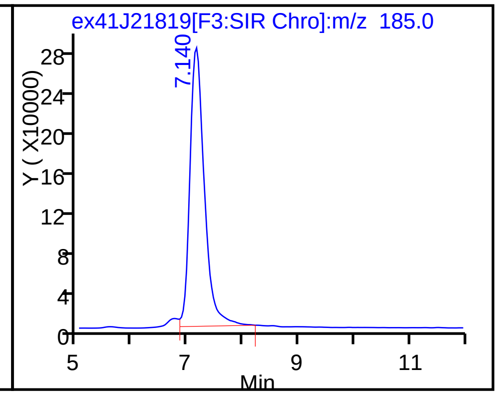
16 2-Amino-4,6-dinitrotoluene (ND)



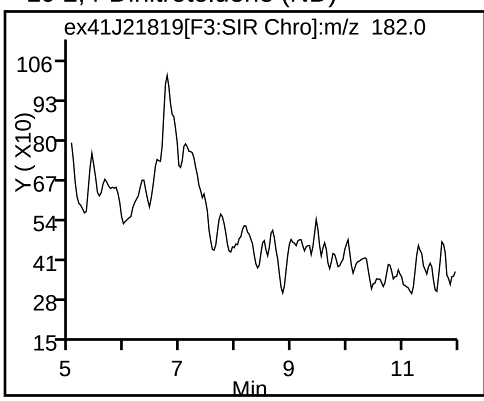
17 2,6-Dinitrotoluene (ND)



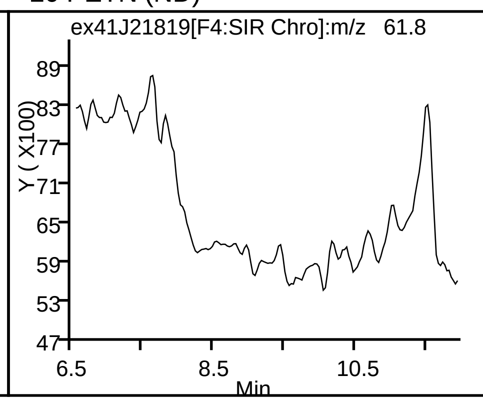
* 18 2,4-dinitrotoluene-d3



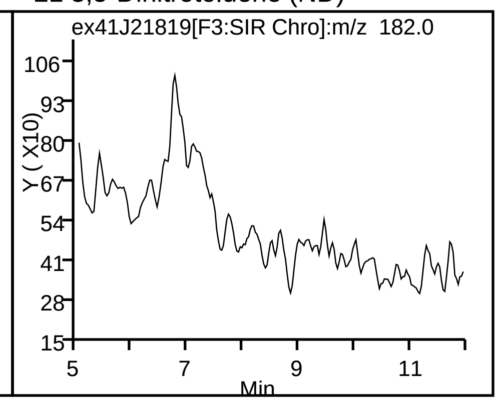
19 2,4-Dinitrotoluene (ND)



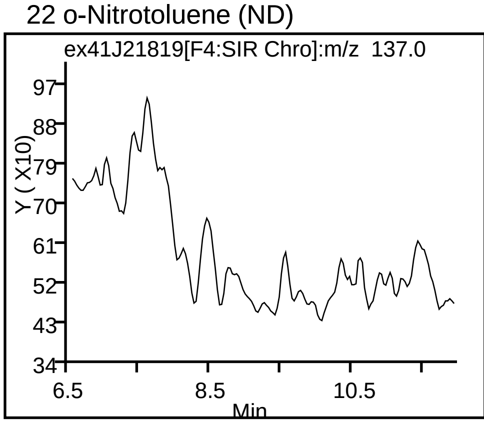
20 PETN (ND)



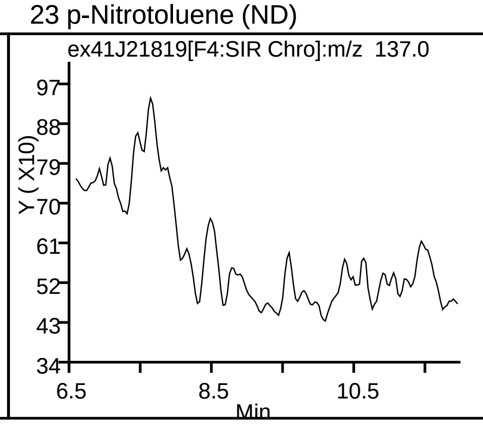
21 3,5-Dinitrotoluene (ND)



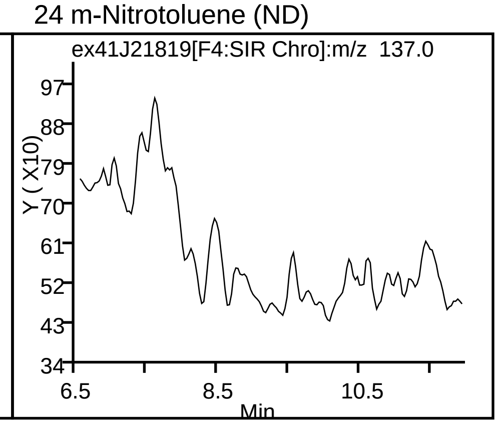
22 o-Nitrotoluene (ND)



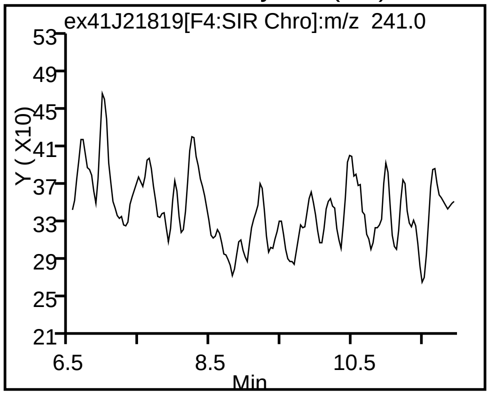
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP13 SD026 | Lab Sample ID: 280-21902-9

Matrix: Solid | Lab File ID: ex41J21820.d

Analysis Method: 8321B | Date Collected: 10/19/2011 11:50

Extraction Method: 8330B | Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.16(g) | Date Analyzed: 11/04/2011 03:44

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U M	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	84	M	68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21820.d		
Lims ID:	280-21902-A-9-C	Client ID:	SD026
Inject. Date:	04-Nov-2011 03:44:08	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-9-C 280-0002711-071		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	36
Lims Batch ID:	94612	Lims Sample ID:	71
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:20	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:43:20

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		686476	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	3.032	-0.041		2290208	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1381067	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										M
2	128.0	5.439	5.472	-0.033	1.098	564860	82.8			M
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.655							
17 2,6-Dinitrotoluene										M
3	182.0	6.746	6.806	-0.060	0.945	9120	0.2178			M
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.171	-0.031		3922764	250.0			
19 2,4-Dinitrotoluene										
3	182.0		7.232							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.740							
24 m-Nitrotoluene										1
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

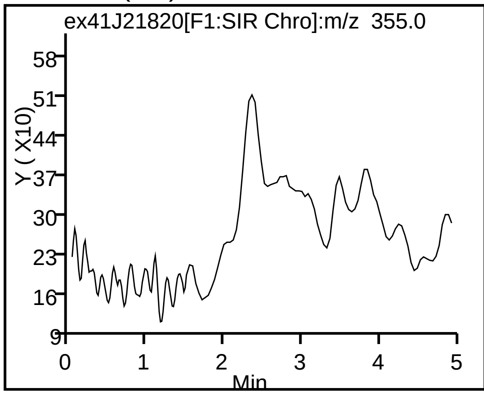
Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

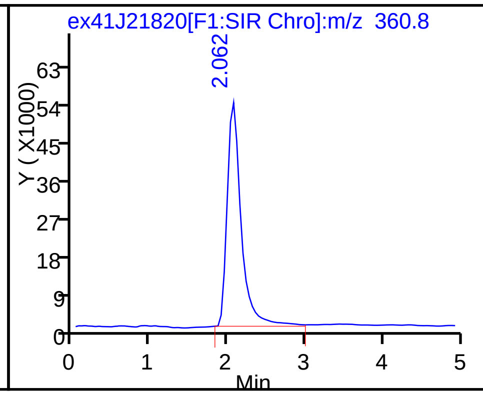
Report Date: 04-Nov-2011 07:37:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21820.d

Injection Date:	04-Nov-2011 03:44:08	Limit Group:	LC - 8321A Expl
Client ID:	SD026	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	71
Operator ID:		Injection Vol:	40.00 ul

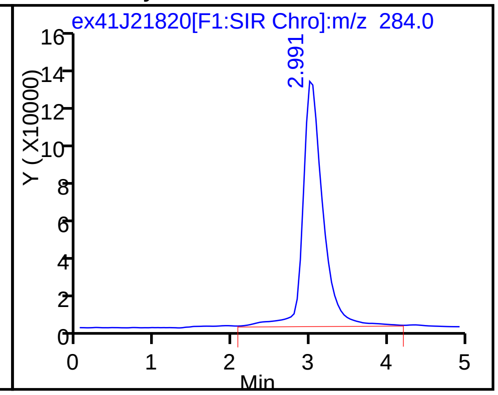
2 HMX (ND)



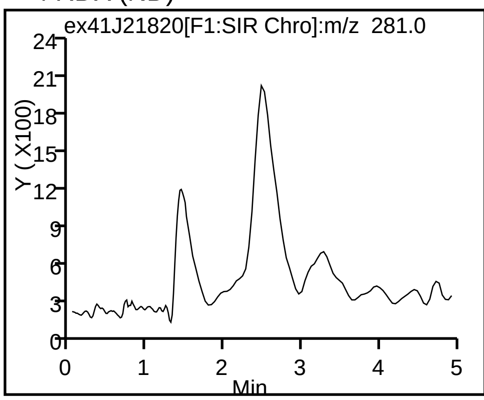
* 1 HMX-13C4



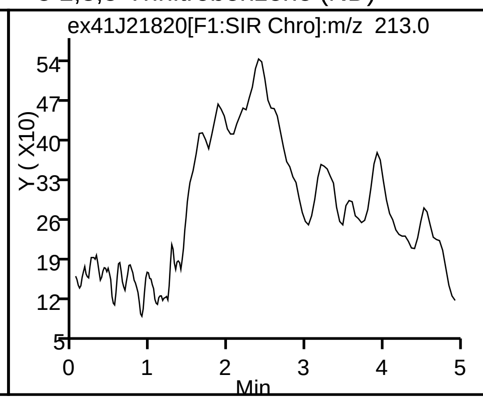
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



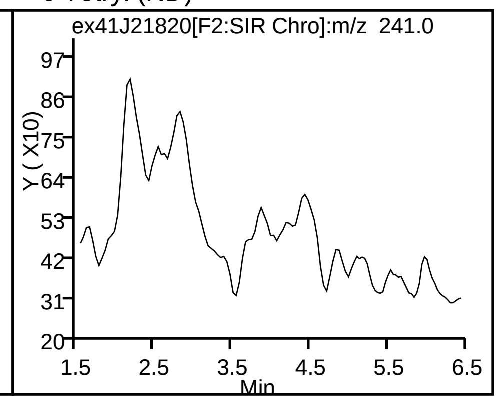
4 RDX (ND)



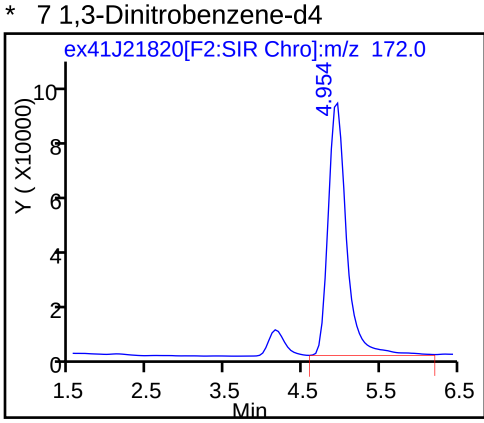
5 1,3,5-Trinitrobenzene (ND)



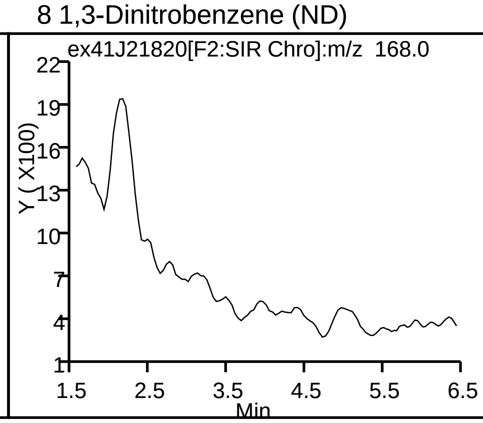
6 Tetryl (ND)



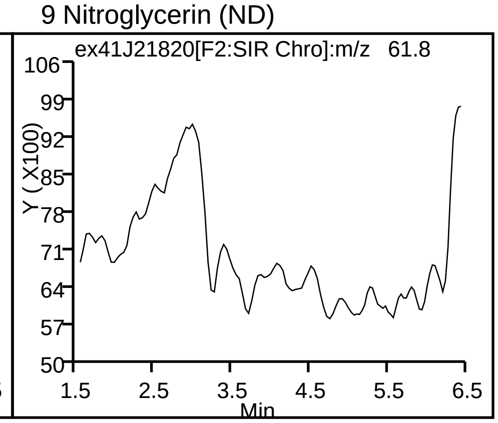
* 7 1,3-Dinitrobenzene-d4



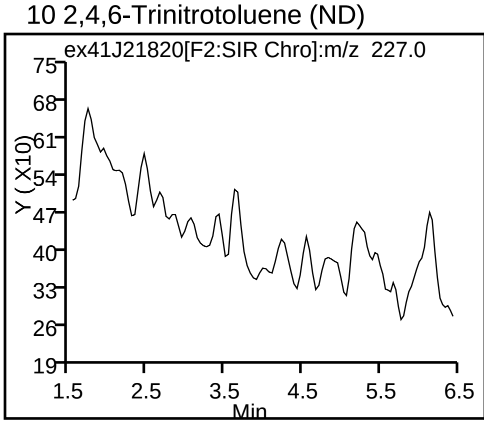
8 1,3-Dinitrobenzene (ND)



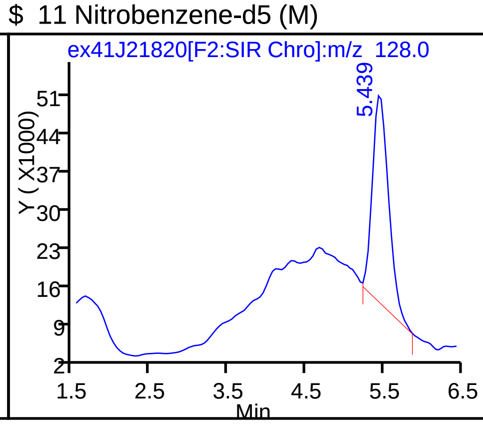
9 Nitroglycerin (ND)



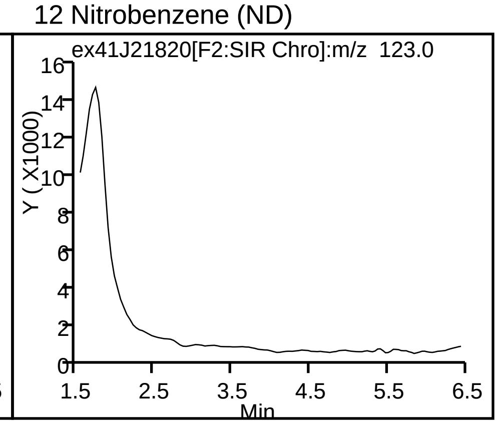
10 2,4,6-Trinitrotoluene (ND)



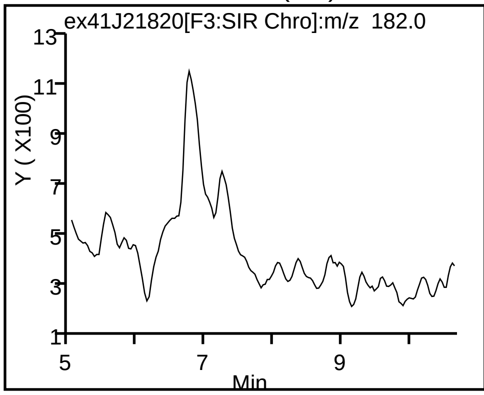
$ 11 Nitrobenzene-d5 (M)



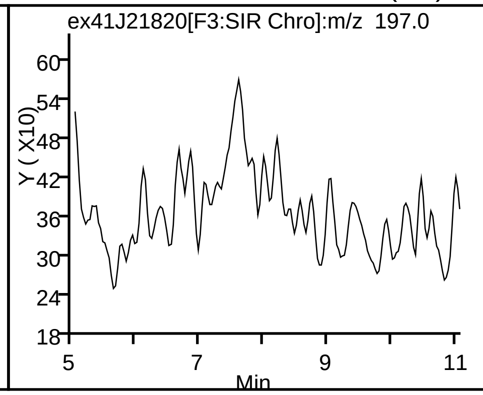
12 Nitrobenzene (ND)



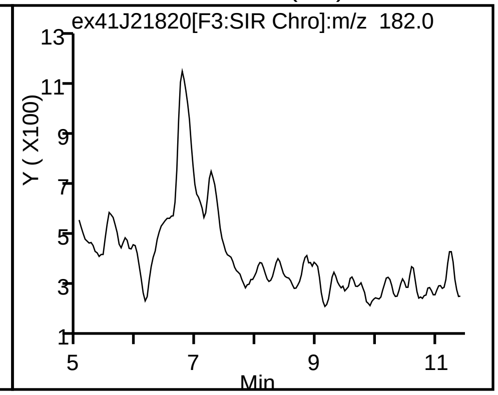
13 3,4-Dinitrotoluene (ND)



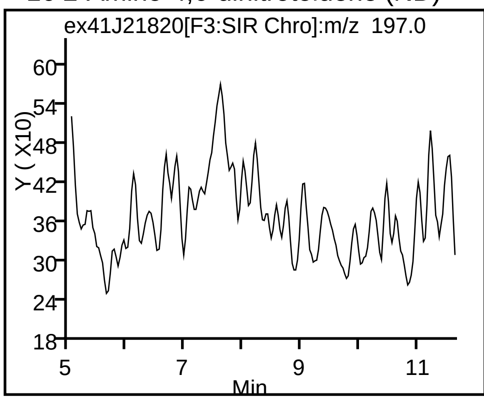
14 4-Amino-2,6-dinitrotoluene (ND)



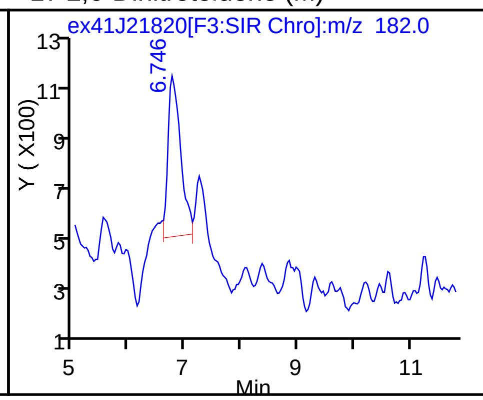
15 2,3-Dinitrotoluene (ND)



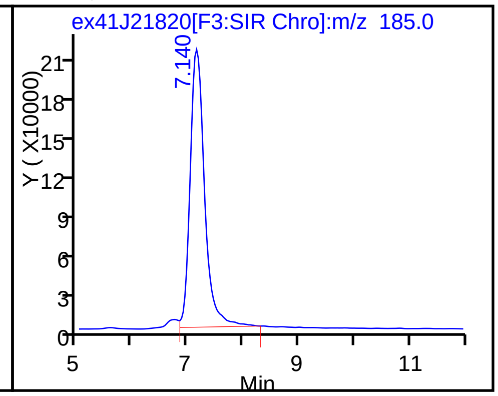
16 2-Amino-4,6-dinitrotoluene (ND)



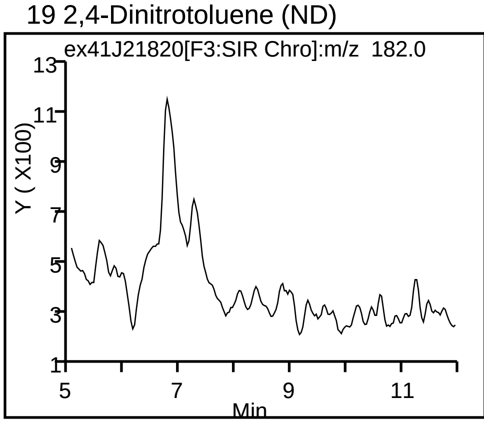
17 2,6-Dinitrotoluene (M)



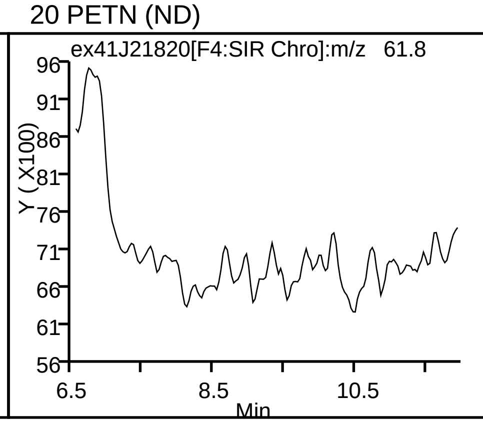
* 18 2,4-dinitrotoluene-d3



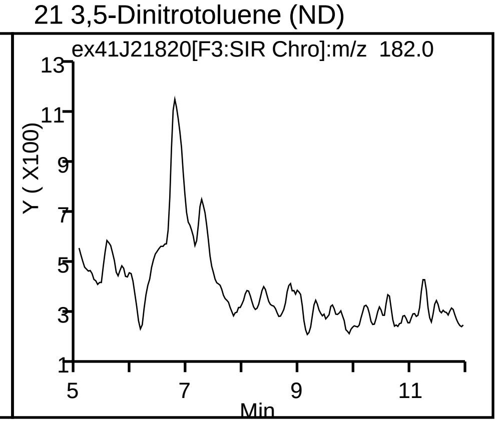
19 2,4-Dinitrotoluene (ND)



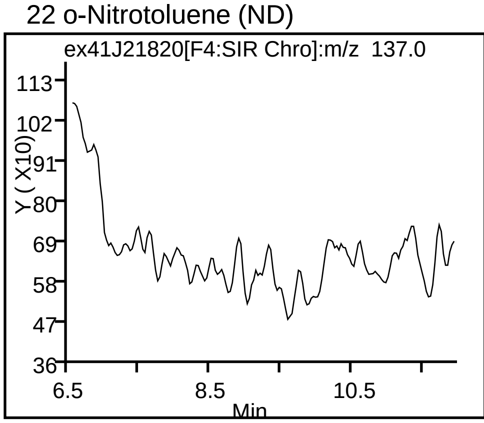
20 PETN (ND)



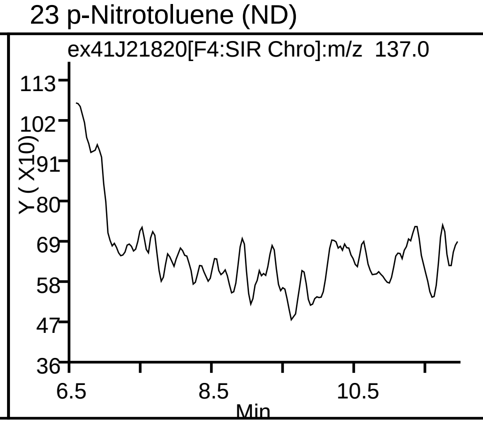
21 3,5-Dinitrotoluene (ND)



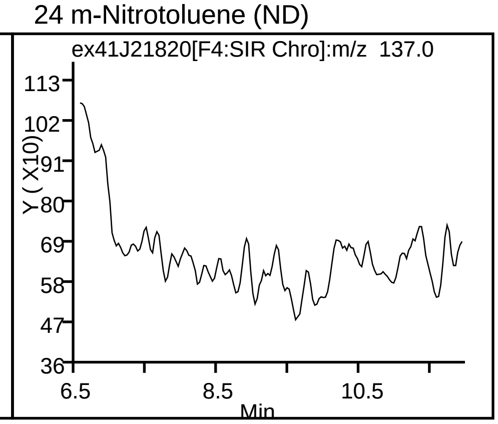
22 o-Nitrotoluene (ND)



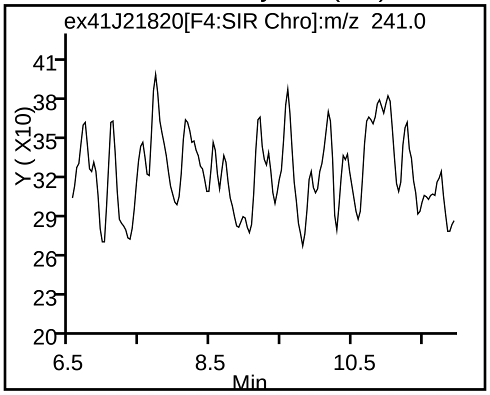
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



Report Date: 04-Nov-2011 07:37:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06

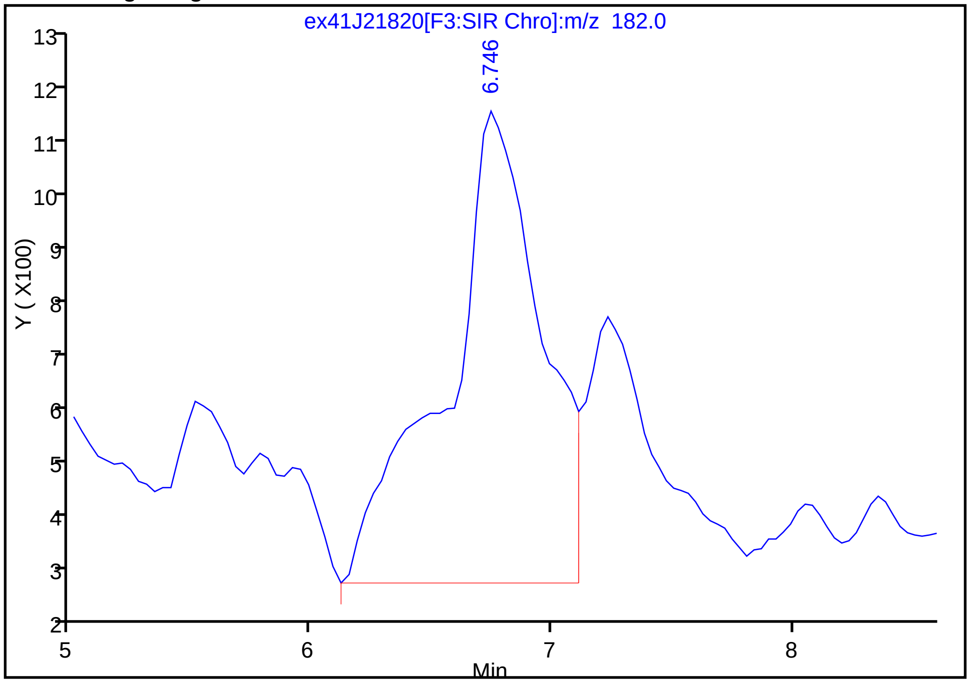
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21820.d		
Injection Date:	04-Nov-2011 03:44:08	Limit Group:	LC - 8321A Expl
Client ID:	SD026	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	71
Operator ID:		Injection Vol:	40.00 ul

17 2,6-Dinitrotoluene, Signal: 1, m/z: 182.0 Type: quant, RT: 6.81, Det: F3:SIR

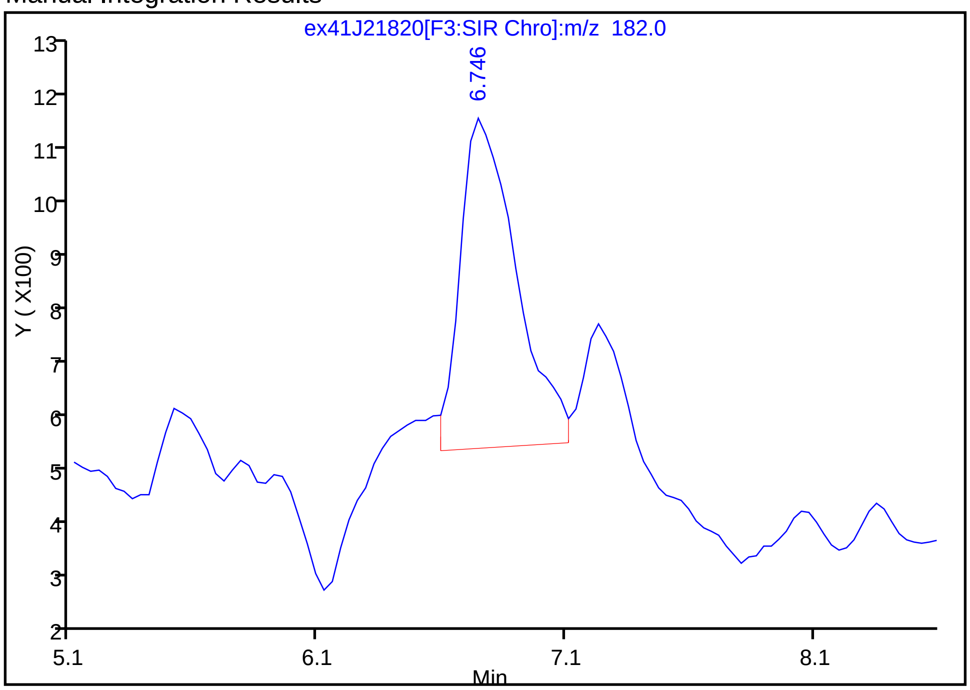
Processing Integration Results

RT: 6.75
Response: 23472
Amount: 0.561678



Manual Integration Results

RT: 6.75
Response: 9120
Amount: 0.217823



Reviewer: meyera, 04-Nov-2011 06:43:20
Audit Action: Manually Integrated
Audit Reason: Baseline

Report Date: 04-Nov-2011 07:37:24

Chrom Revision: 1.2 13-Jul-2011 10:43:06

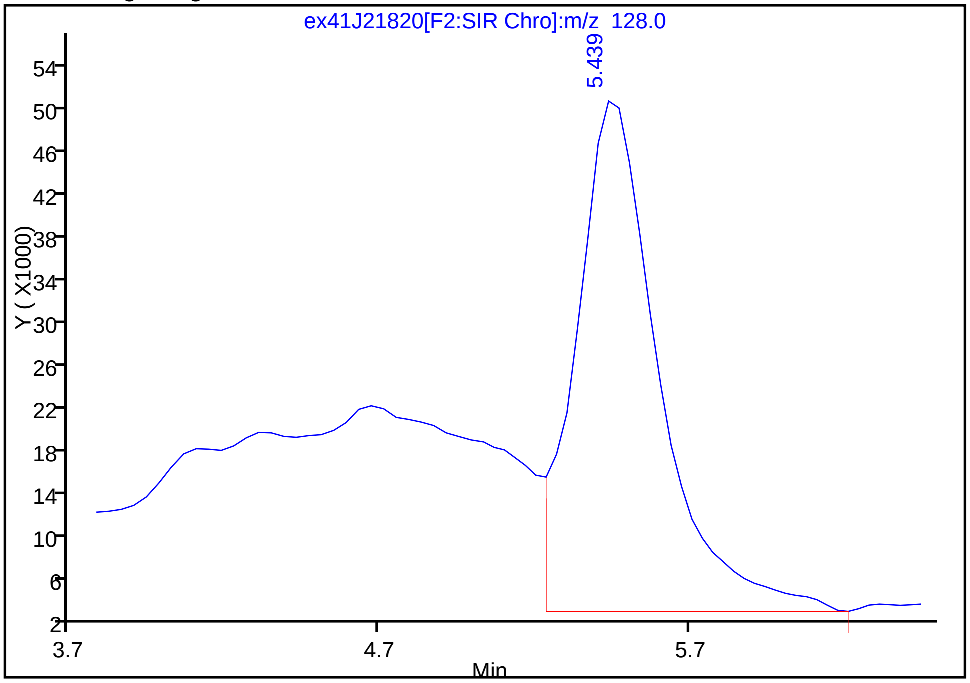
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21820.d		
Injection Date:	04-Nov-2011 03:44:08	Limit Group:	LC - 8321A Expl
Client ID:	SD026	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	71
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.47, Det: F2:SIR

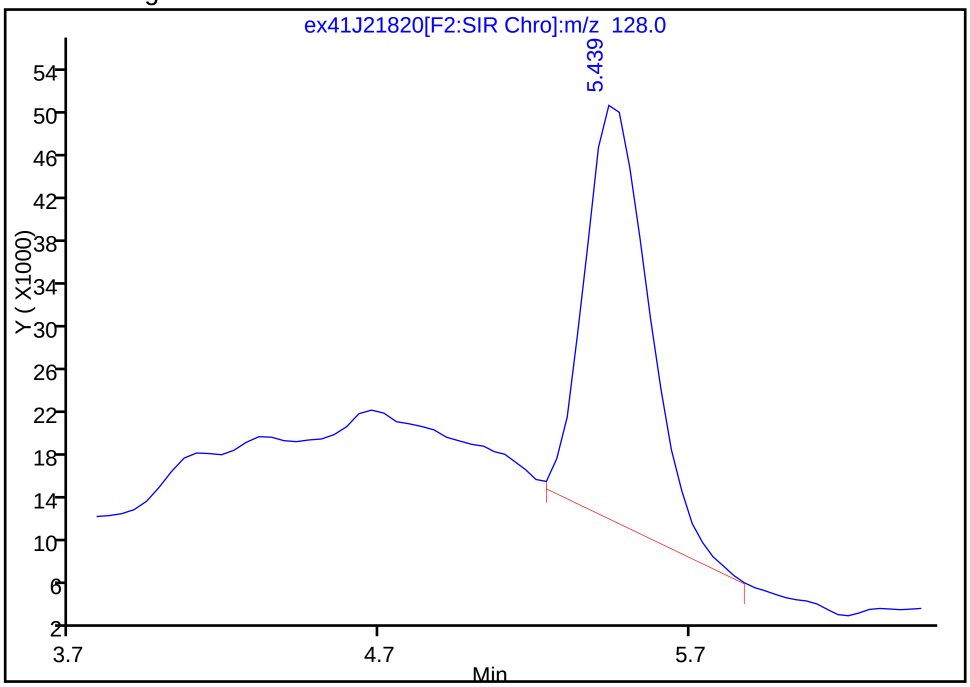
Processing Integration Results

RT: 5.44
Response: 887800
Amount: 130.4769



Manual Integration Results

RT: 5.44
Response: 564860
Amount: 82.807325



Reviewer: meyera, 04-Nov-2011 06:43:20
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP14 SD027 | Lab Sample ID: 280-21902-10

Matrix: Solid | Lab File ID: ex41J21821.d

Analysis Method: 8321B | Date Collected: 10/19/2011 09:55

Extraction Method: 8330B | Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.71(g) | Date Analyzed: 11/04/2011 03:57

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0054
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.093	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0098
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77	M	68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21821.d		
Lims ID:	280-21902-B-10-B	Client ID:	SD027
Inject. Date:	04-Nov-2011 03:57:42	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-10-B 280-0002711-072		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	37
Lims Batch ID:	94612	Lims Sample ID:	72
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:20	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:43:36

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		523415	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1690176	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1343364	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										M
2	128.0	5.472	5.472	0.000	1.105	506380	76.3			M
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.655							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.171	-0.031		3925162	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.232							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.740							
24 m-Nitrotoluene										
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

Processing Flags
1 - Missing Peaks

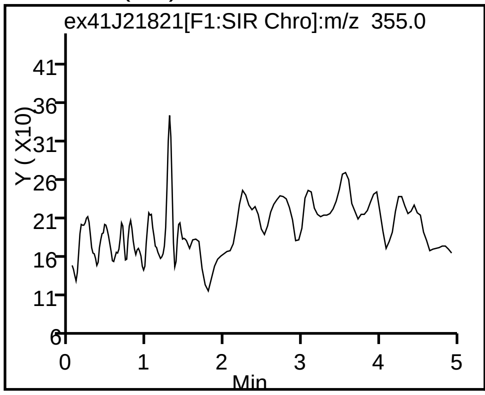
Review Flags
M - Manually Integrated

Report Date: 04-Nov-2011 07:37:25   Chrom Revision: 1.2 13-Jul-2011 10:43:06

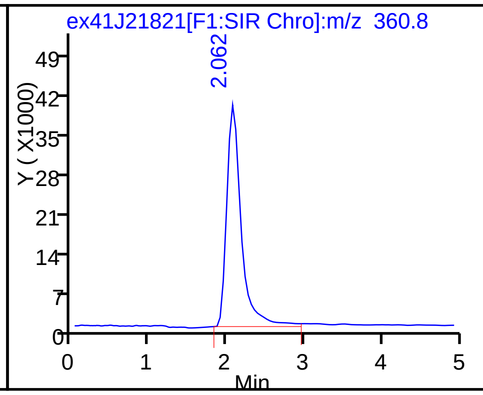
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21821.d

Injection Date:	04-Nov-2011 03:57:42	Limit Group:	LC - 8321A Expl
Client ID:	SD027	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	72
Operator ID:		Injection Vol:	40.00 ul

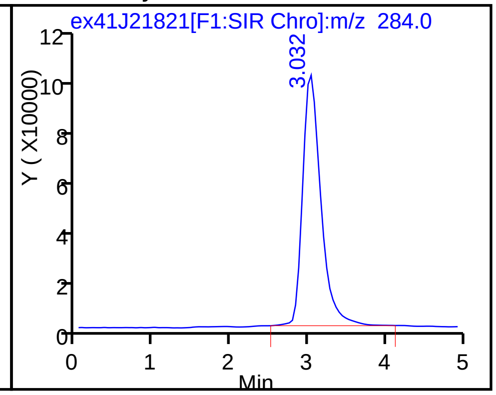
2 HMX (ND)



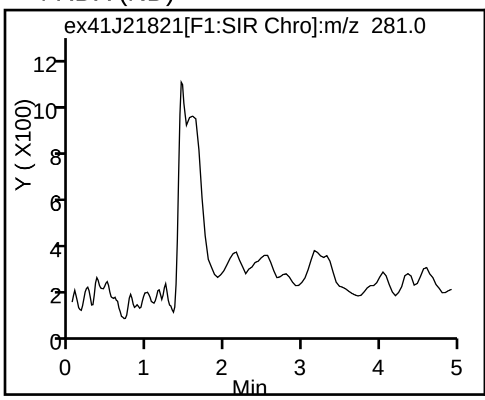
* 1 HMX-13C4



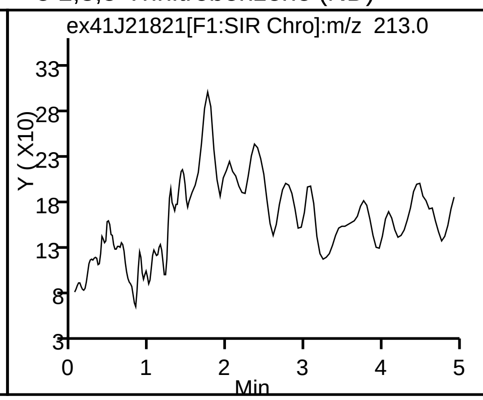
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



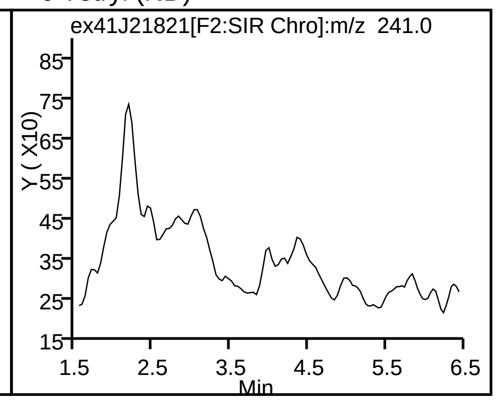
4 RDX (ND)



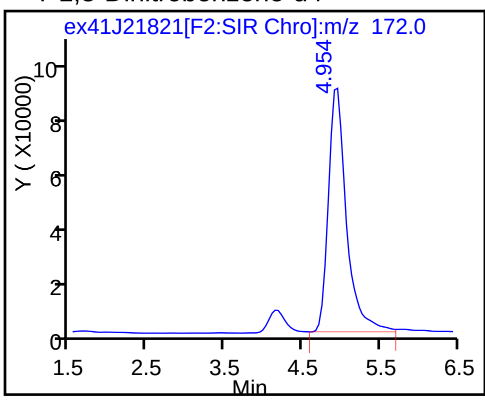
5 1,3,5-Trinitrobenzene (ND)



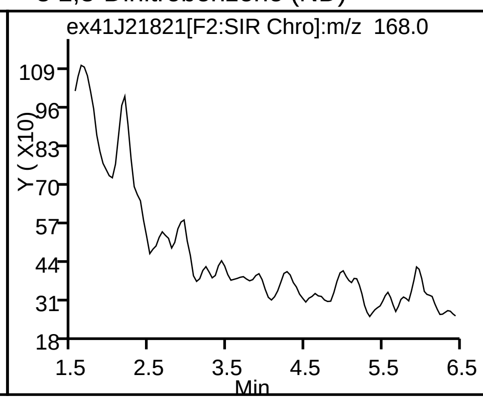
6 Tetryl (ND)



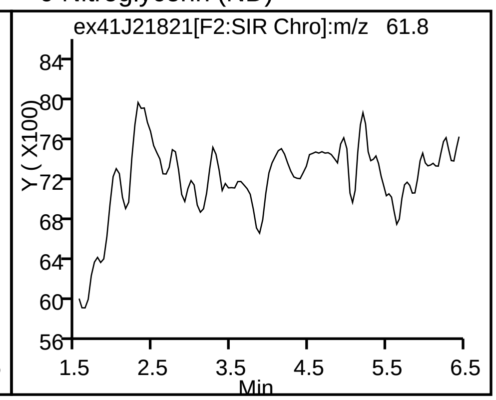
* 7 1,3-Dinitrobenzene-d4



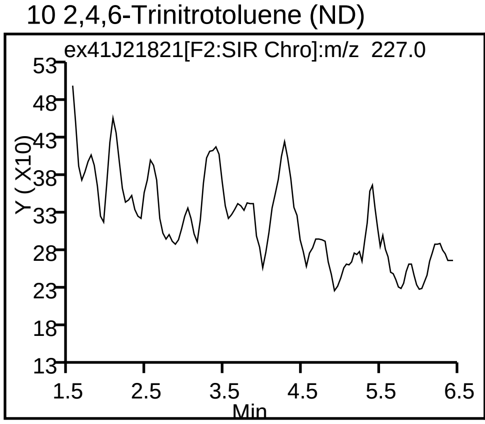
8 1,3-Dinitrobenzene (ND)



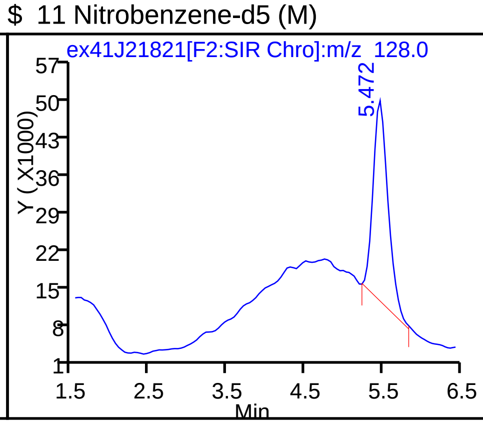
9 Nitroglycerin (ND)



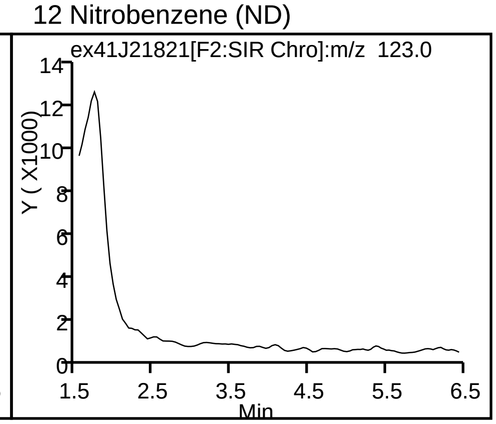
10 2,4,6-Trinitrotoluene (ND)



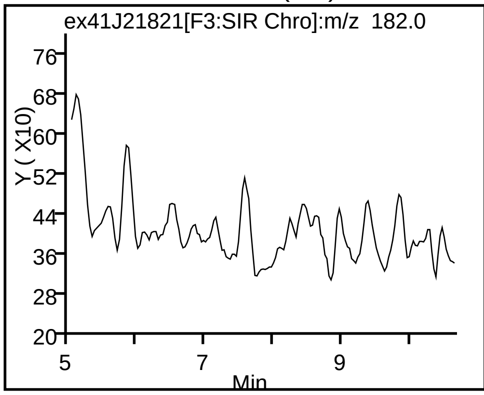
$ 11 Nitrobenzene-d5 (M)



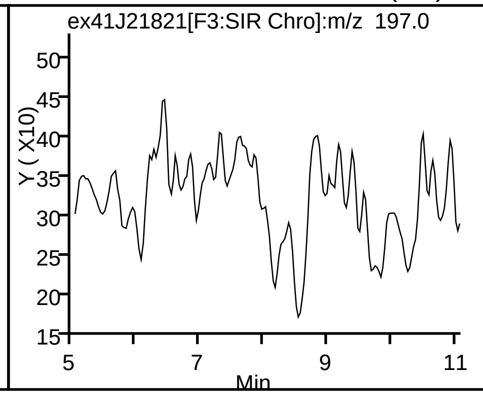
12 Nitrobenzene (ND)



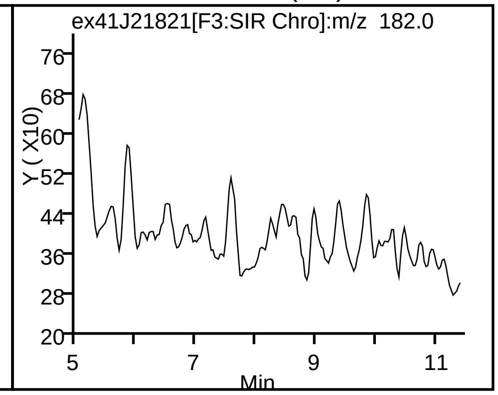
13 3,4-Dinitrotoluene (ND)



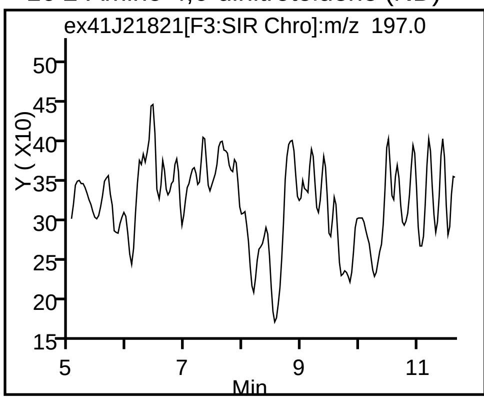
14 4-Amino-2,6-dinitrotoluene (ND)



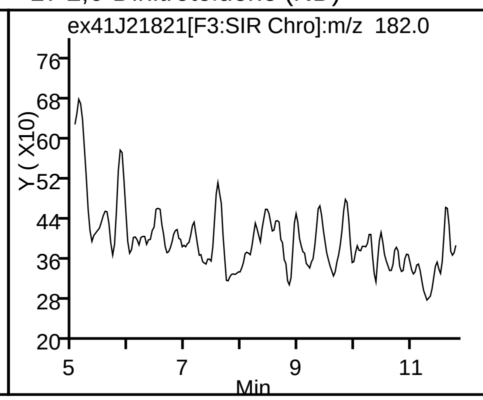
15 2,3-Dinitrotoluene (ND)



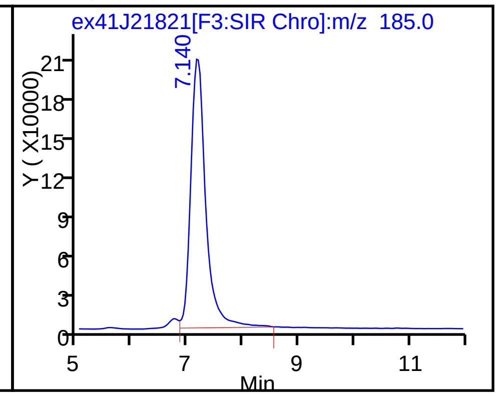
16 2-Amino-4,6-dinitrotoluene (ND)



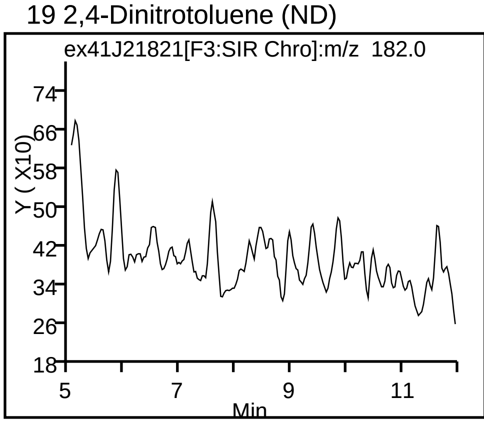
17 2,6-Dinitrotoluene (ND)



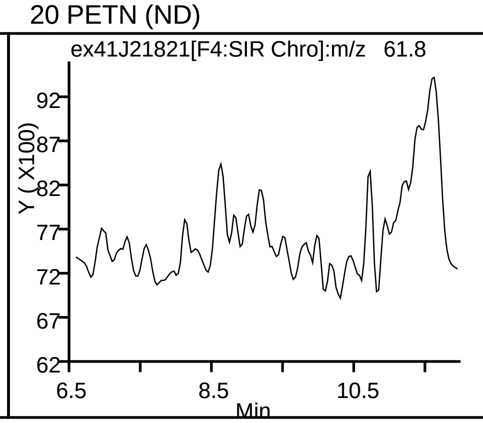
* 18 2,4-dinitrotoluene-d3



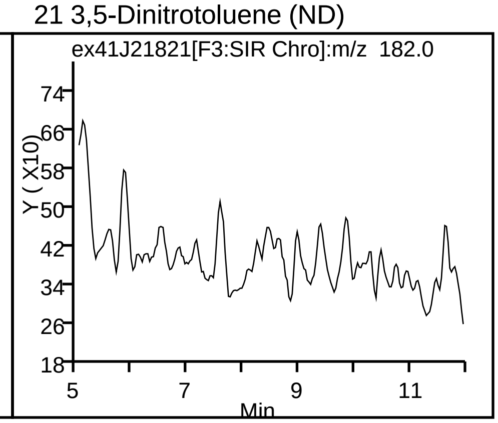
19 2,4-Dinitrotoluene (ND)



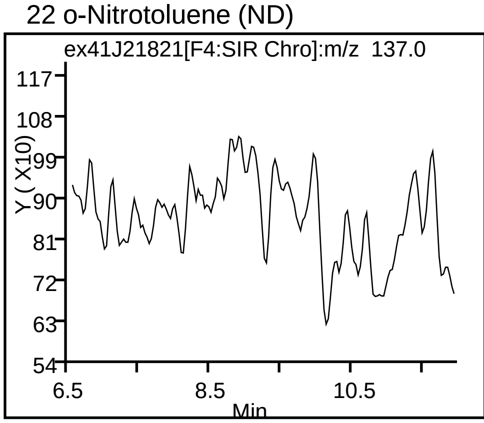
20 PETN (ND)



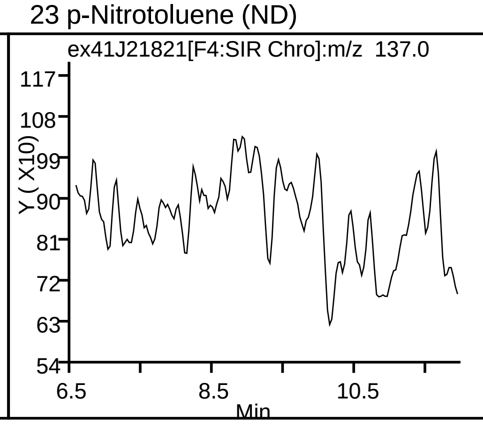
21 3,5-Dinitrotoluene (ND)



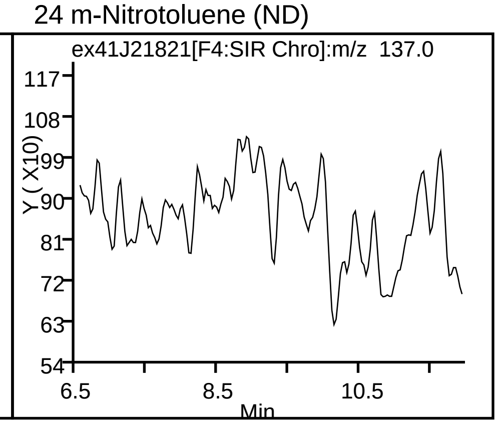
22 o-Nitrotoluene (ND)



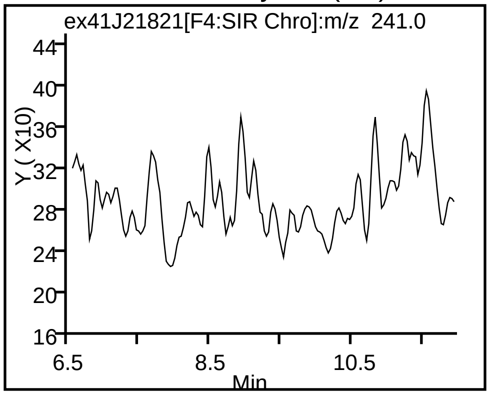
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



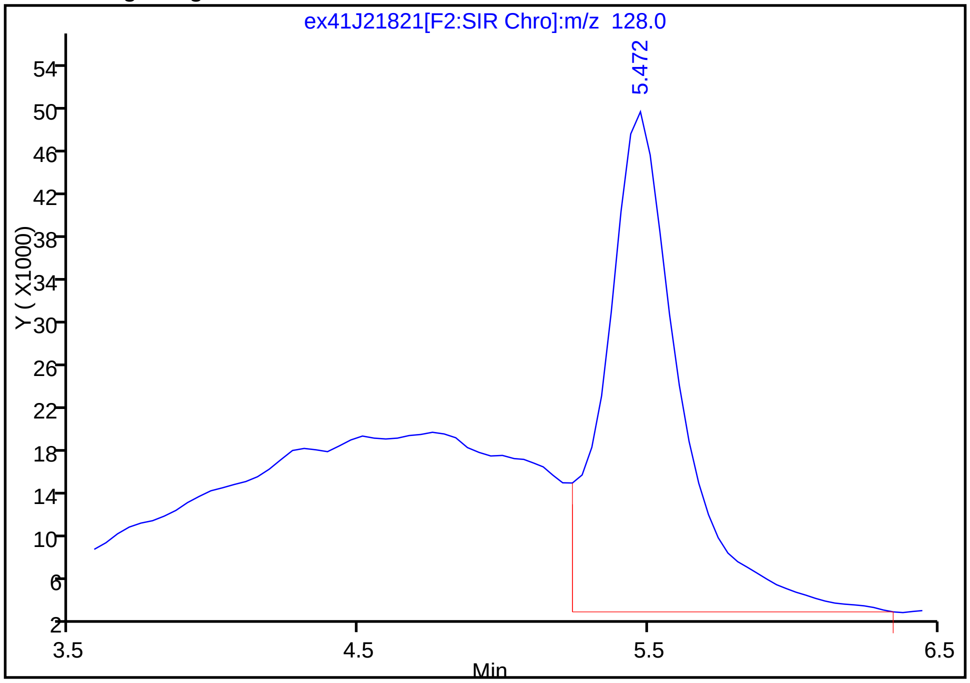
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21821.d		
Injection Date:	04-Nov-2011 03:57:42	Limit Group:	LC - 8321A Expl
Client ID:	SD027	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	72
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.47, Det: F2:SIR

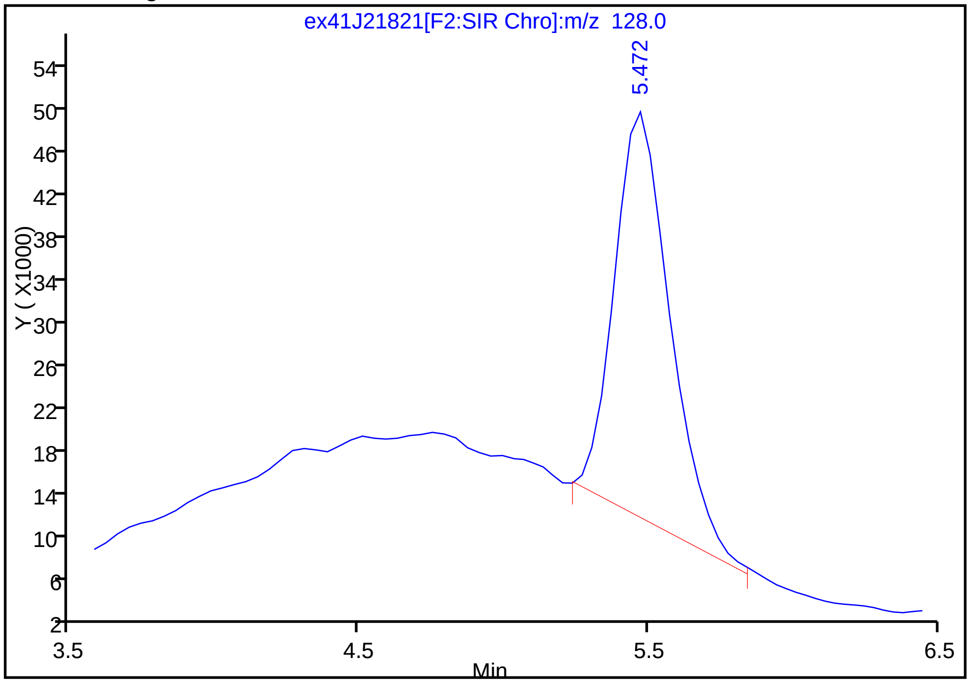
Processing Integration Results

RT: 5.47
Response: 846578
Amount: 127.8994



Manual Integration Results

RT: 5.47
Response: 506380
Amount: 76.272882



Reviewer: meyera, 04-Nov-2011 06:43:36
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP14 SD028   Lab Sample ID: 280-21902-11

Matrix: Solid   Lab File ID: ex41J21822.d

Analysis Method: 8321B   Date Collected: 10/19/2011 09:55

Extraction Method: 8330B   Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.66(g)   Date Analyzed: 11/04/2011 04:11

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.094	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.023	U	0.094	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.094	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.023	U	0.094	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.094	0.023	0.010
2691-41-0	HMX	0.012	U	0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.094	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.094	0.012	0.0098
78-11-5	PETN	0.012	U	0.094	0.012	0.0048
121-82-4	RDX	0.012	U	0.094	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.094	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87	M	68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21822.d		
Lims ID:	280-21902-B-11-B	Client ID:	SD028
Inject. Date:	04-Nov-2011 04:11:16	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-11-B 280-0002711-073		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	38
Lims Batch ID:	94612	Lims Sample ID:	73
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:20	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:43:49

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		619461	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2095749	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.954	-0.041		1468118	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										M
2	128.0	5.472	5.472	0.000	1.114	625011	86.2			M
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.655							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.171	-0.031		4343080	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.232							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.740							
24 m-Nitrotoluene										1
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

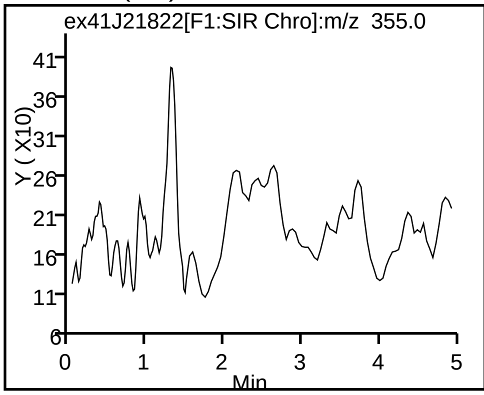
Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

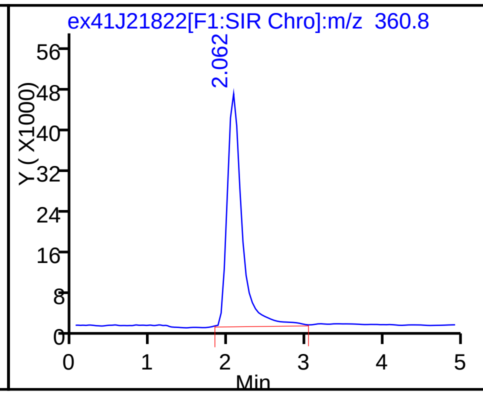
Report Date: 04-Nov-2011 07:37:25 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21822.d

Injection Date:	04-Nov-2011 04:11:16	Limit Group:	LC - 8321A Expl
Client ID:	SD028	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	73
Operator ID:		Injection Vol:	40.00 ul

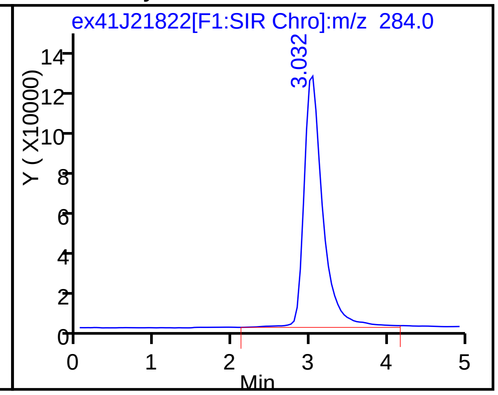
2 HMX (ND)



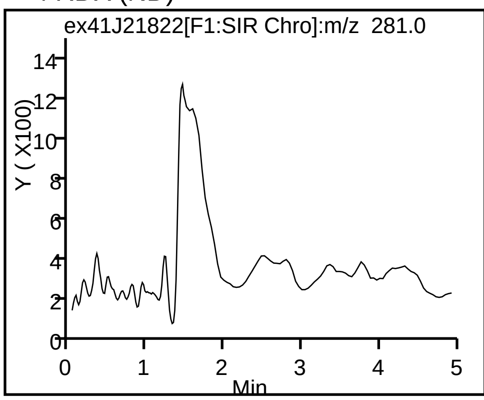
* 1 HMX-13C4



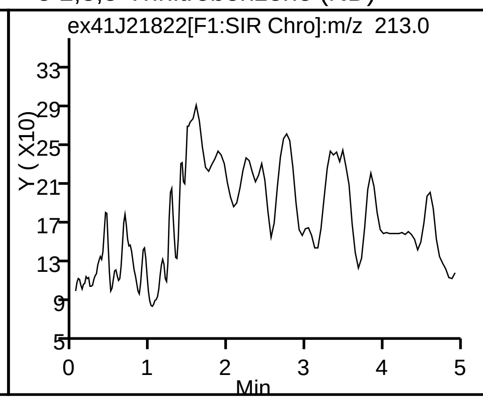
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



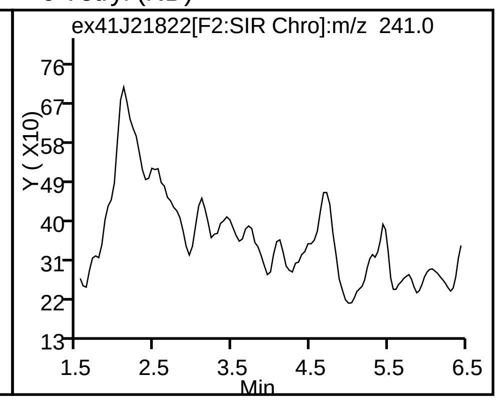
4 RDX (ND)



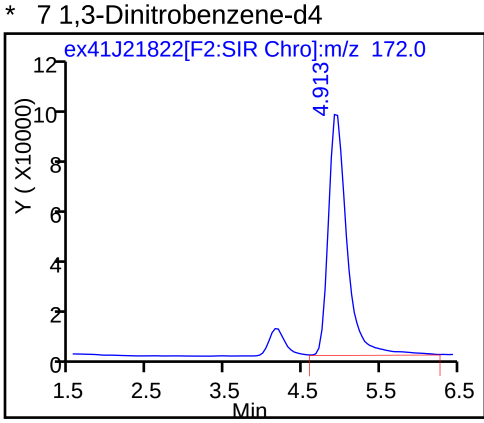
5 1,3,5-Trinitrobenzene (ND)



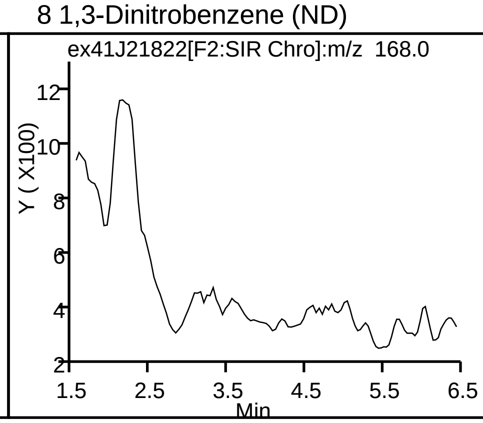
6 Tetryl (ND)



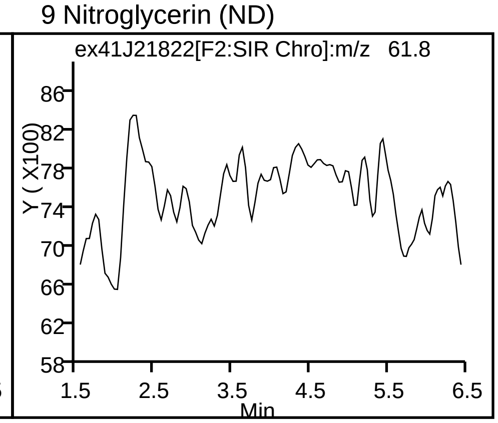
* 7 1,3-Dinitrobenzene-d4



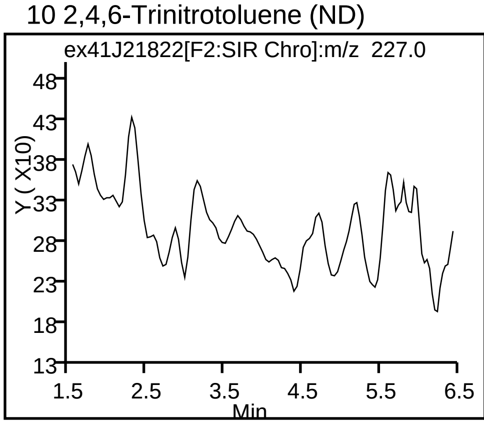
8 1,3-Dinitrobenzene (ND)



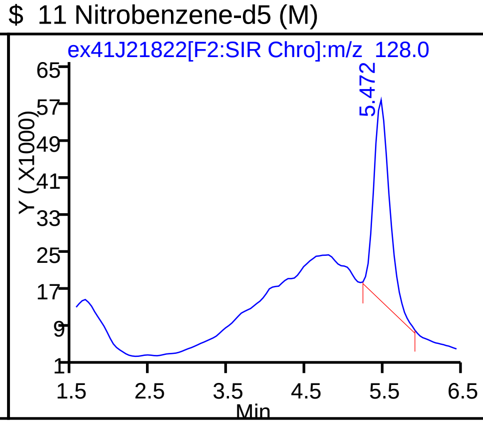
9 Nitroglycerin (ND)



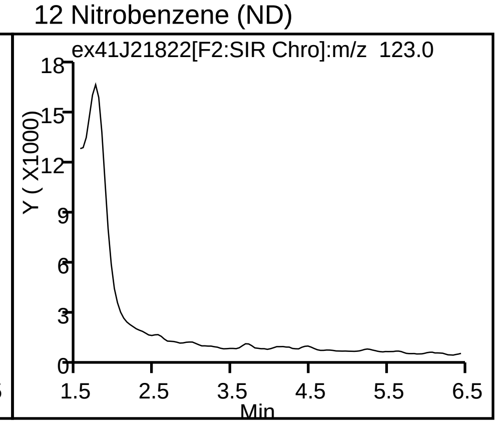
10 2,4,6-Trinitrotoluene (ND)



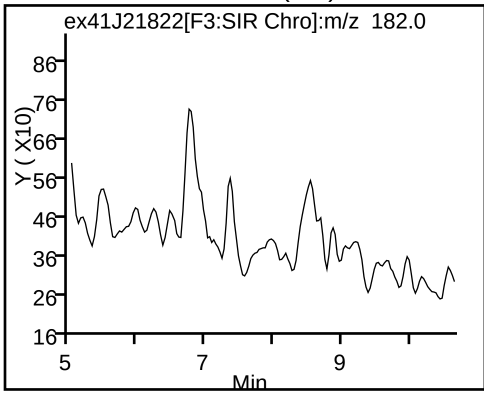
$ 11 Nitrobenzene-d5 (M)



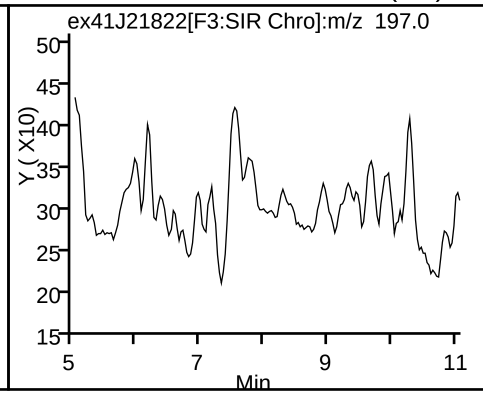
12 Nitrobenzene (ND)



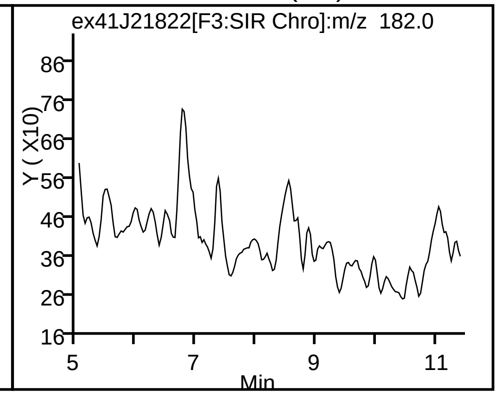
13 3,4-Dinitrotoluene (ND)



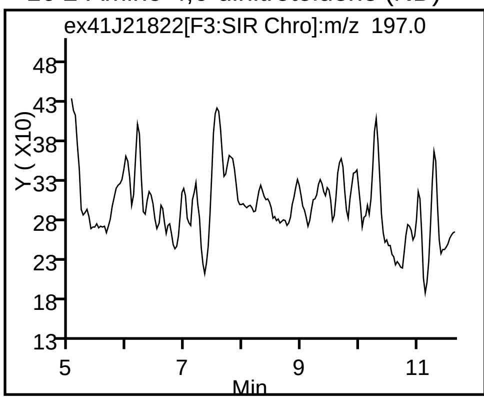
14 4-Amino-2,6-dinitrotoluene (ND)



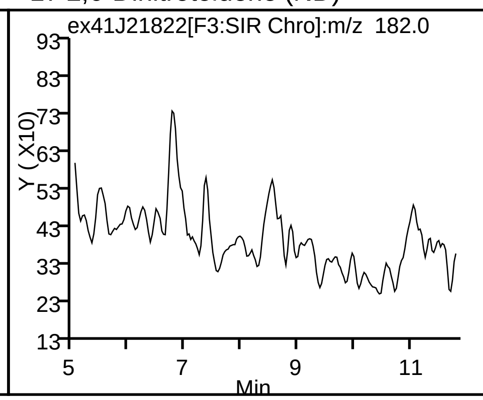
15 2,3-Dinitrotoluene (ND)



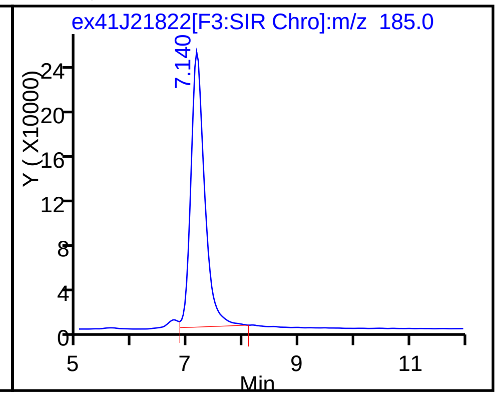
16 2-Amino-4,6-dinitrotoluene (ND)



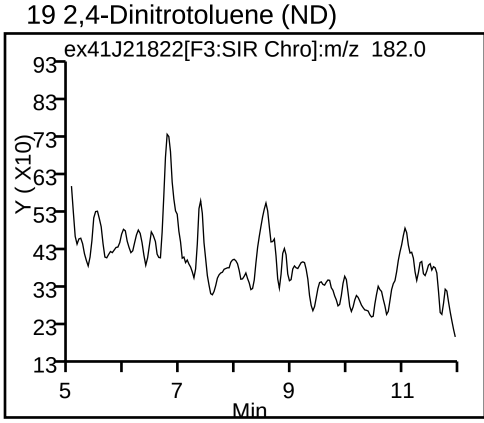
17 2,6-Dinitrotoluene (ND)



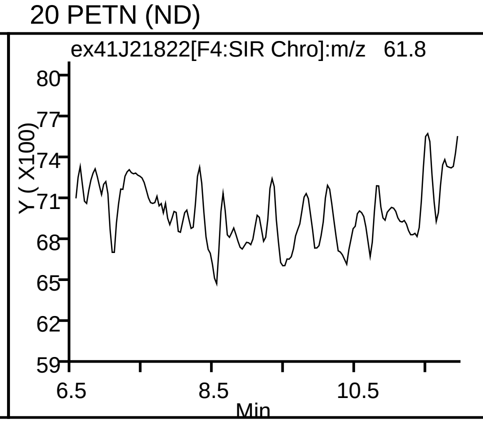
* 18 2,4-dinitrotoluene-d3



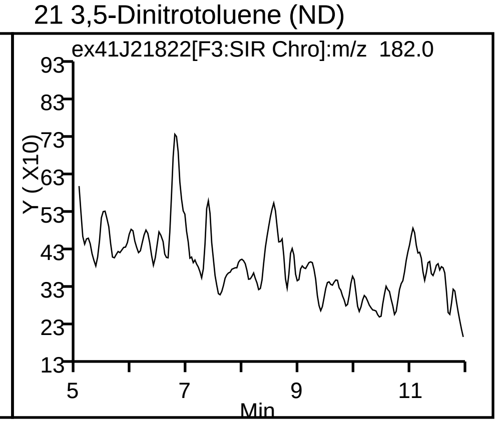
19 2,4-Dinitrotoluene (ND)



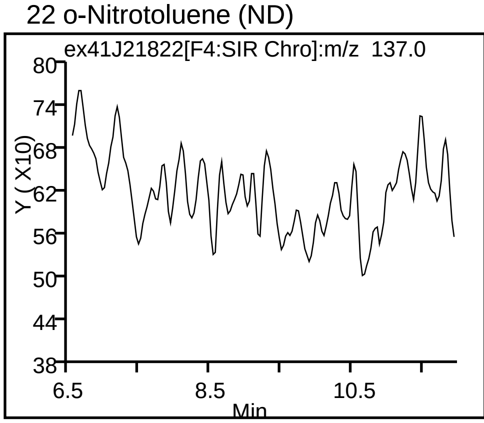
20 PETN (ND)



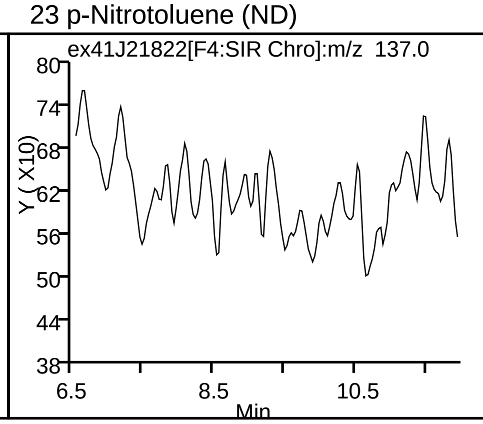
21 3,5-Dinitrotoluene (ND)



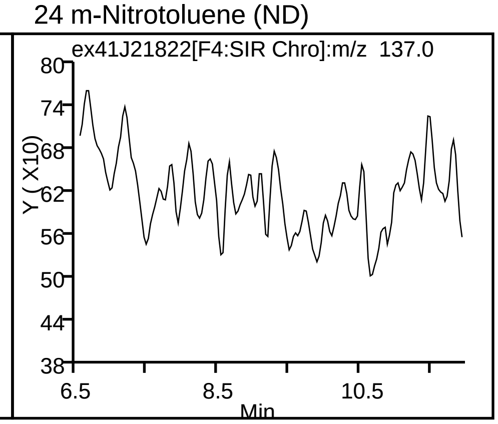
22 o-Nitrotoluene (ND)



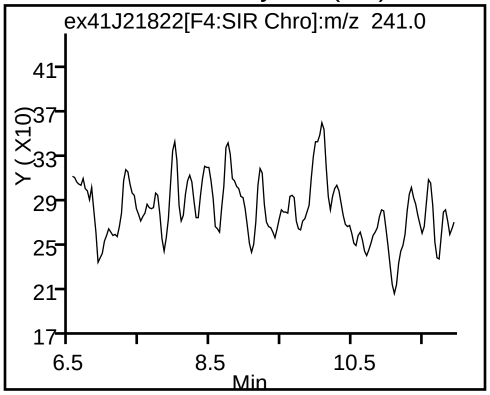
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



Report Date: 04-Nov-2011 07:37:25

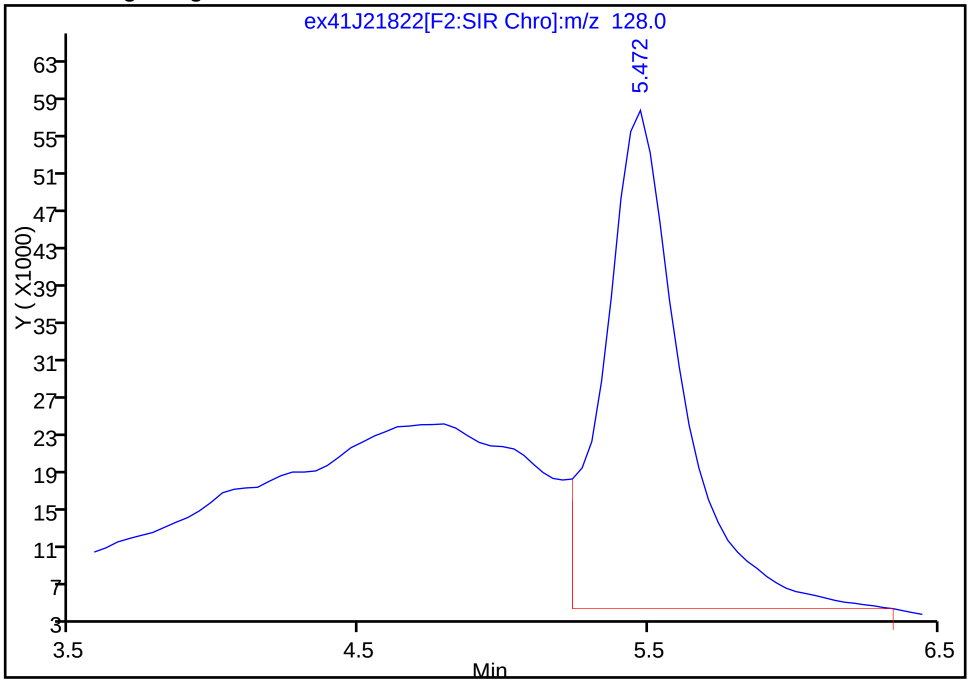
Chrom Revision: 1.2 13-Jul-2011 10:43:06
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21822.d		
Injection Date:	04-Nov-2011 04:11:16	Limit Group:	LC - 8321A Expl
Client ID:	SD028	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	73
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.47, Det: F2:SIR

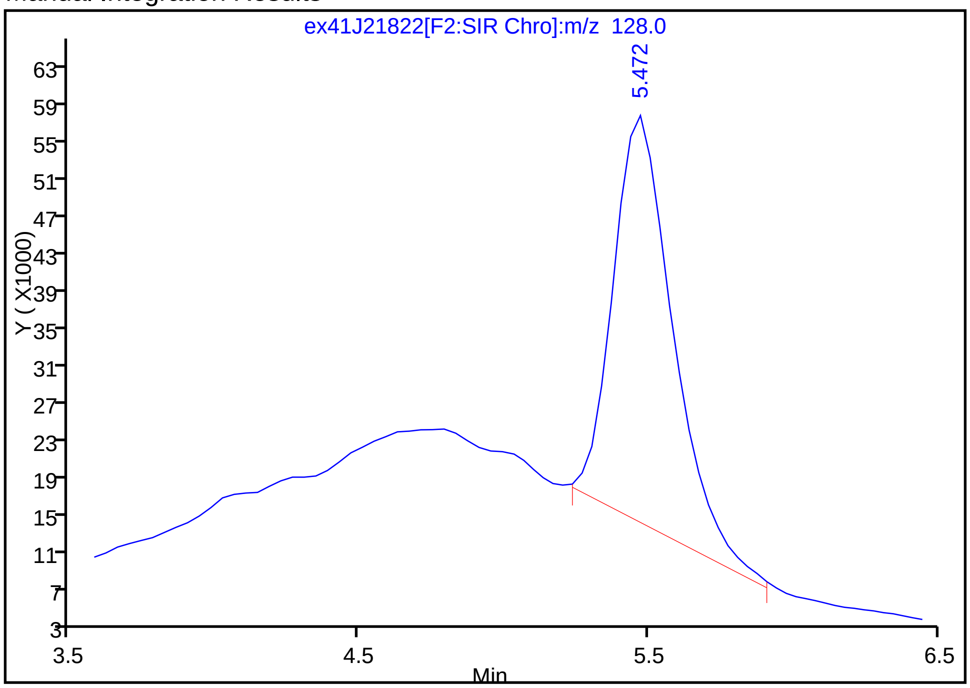
Processing Integration Results

RT: 5.47
Response: 996048
Amount: 137.7377



Manual Integration Results

RT: 5.47
Response: 625011
Amount: 86.215882



Reviewer: meyera, 04-Nov-2011 06:43:49
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP15 SD029   Lab Sample ID: 280-21902-12

Matrix: Solid   Lab File ID: ex41J21823.d

Analysis Method: 8321B   Date Collected: 10/19/2011 10:30

Extraction Method: 8330B   Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.55(g)   Date Analyzed: 11/04/2011 04:24

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80	M	68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21823.d		
Lims ID:	280-21902-B-12-B	Client ID:	SD029
Inject. Date:	04-Nov-2011 04:24:50	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-12-B 280-0002711-074		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	39
Lims Batch ID:	94612	Lims Sample ID:	74
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:20	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:44:05

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		599119	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1895401	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.954	-0.041		1441320	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										M
2	128.0	5.472	5.472	0.000	1.114	561658	78.9			M
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.655							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.110	7.171	-0.061		4318680	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.232							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.740							
24 m-Nitrotoluene										
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

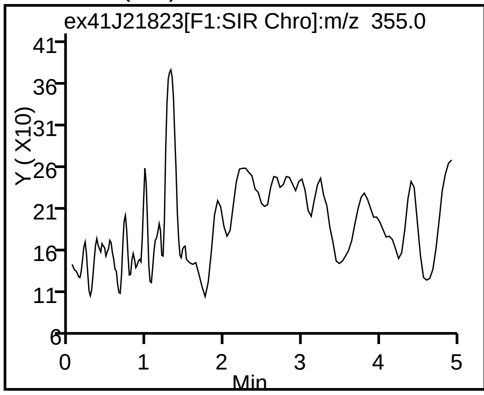
QC Flag Legend

Processing Flags
1 - Missing Peaks

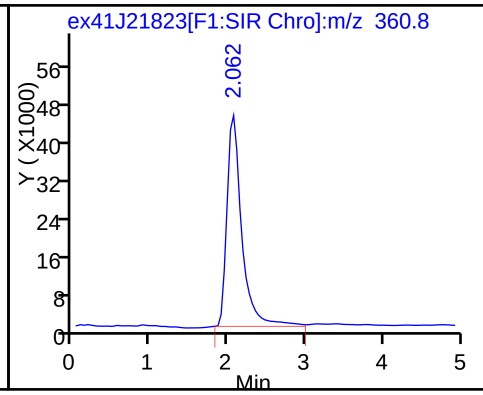
Review Flags
M - Manually Integrated

Report Date:	04-Nov-2011 07:37:26	Chrom Revision:	1.2 13-Jul-2011 10:43:06
Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21823.d		
Injection Date:	04-Nov-2011 04:24:50	Limit Group:	LC - 8321A Expl
Client ID:	SD029	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	74
Operator ID:		Injection Vol:	40.00 ul

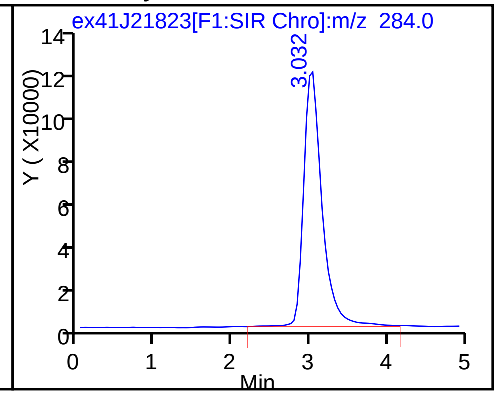
2 HMX (ND)



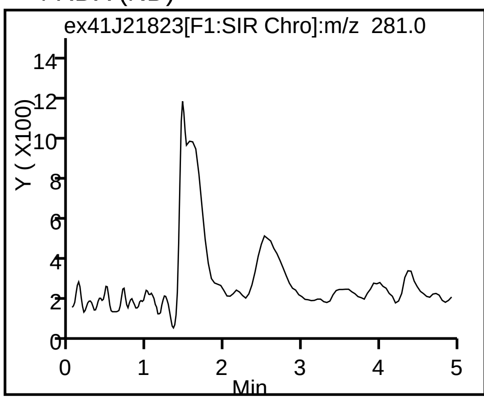
* 1 HMX-13C4



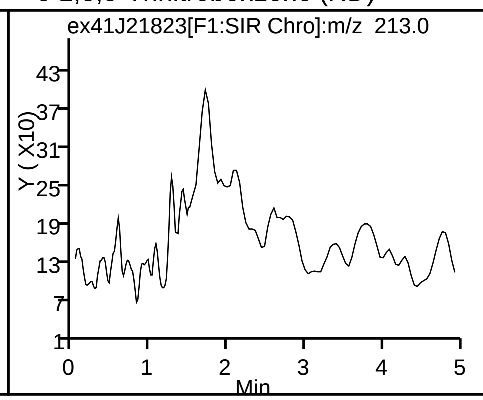
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



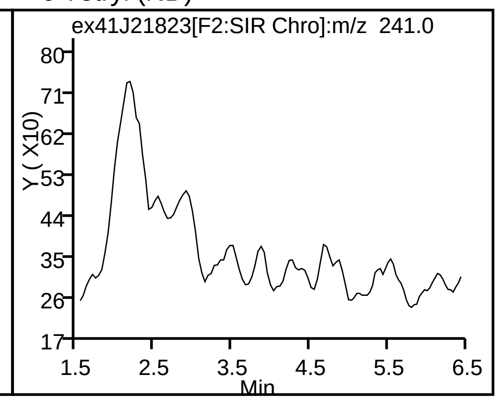
4 RDX (ND)



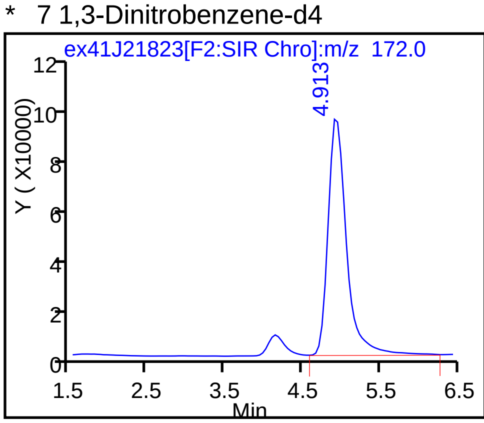
5 1,3,5-Trinitrobenzene (ND)



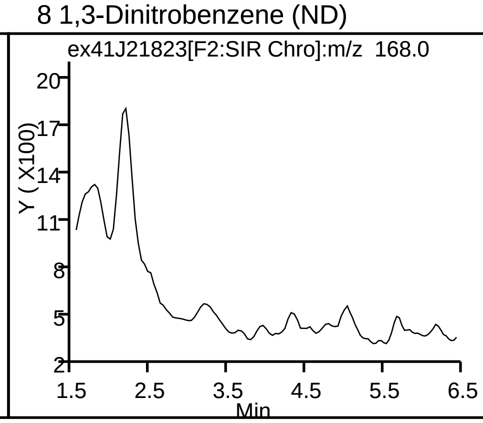
6 Tetryl (ND)



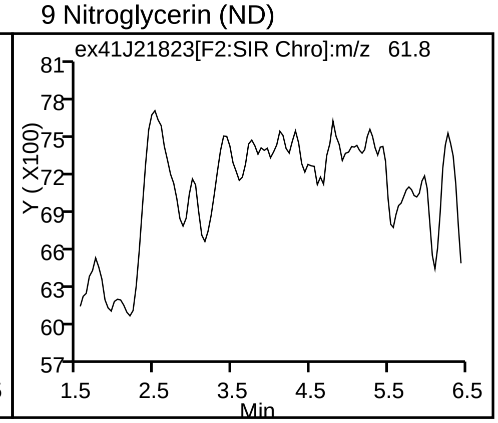
* 7 1,3-Dinitrobenzene-d4



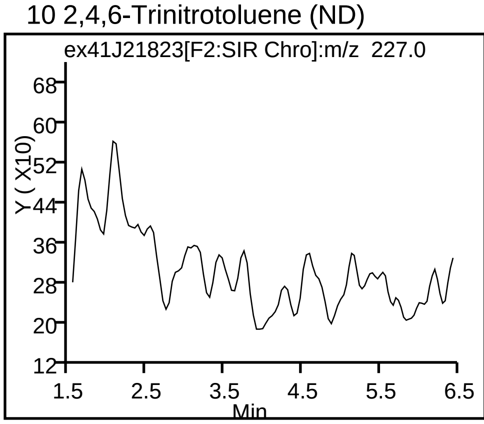
8 1,3-Dinitrobenzene (ND)



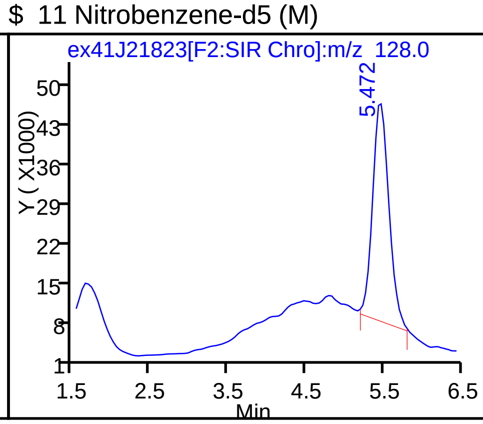
9 Nitroglycerin (ND)



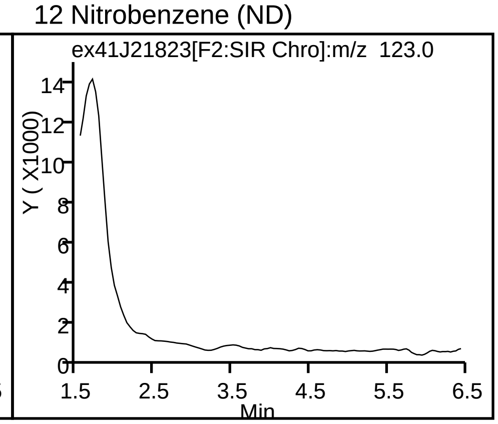
10 2,4,6-Trinitrotoluene (ND)



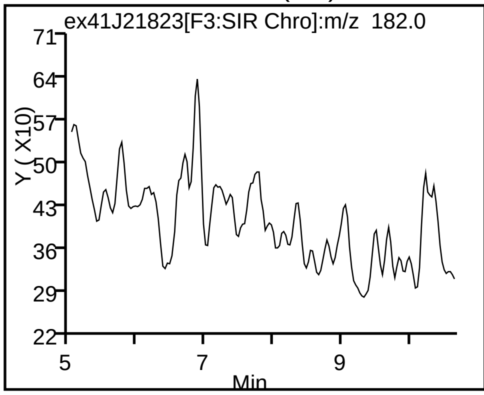
$ 11 Nitrobenzene-d5 (M)



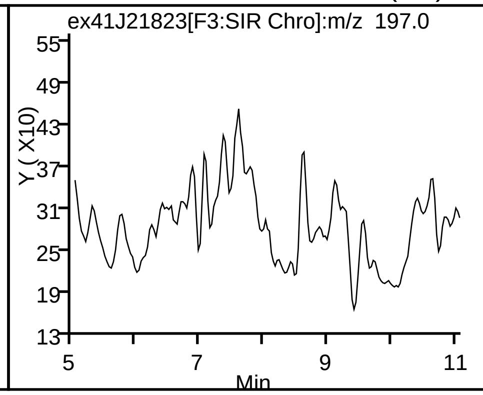
12 Nitrobenzene (ND)



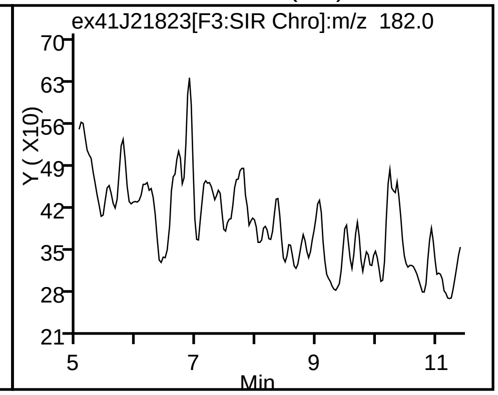
13 3,4-Dinitrotoluene (ND)



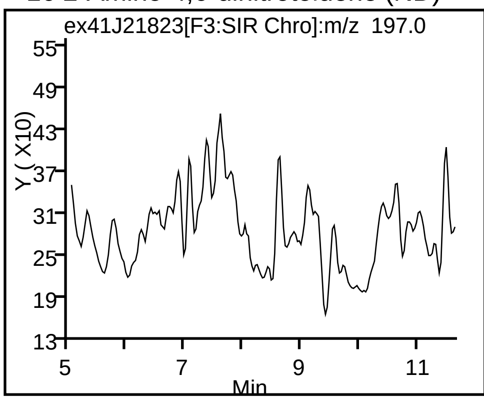
14 4-Amino-2,6-dinitrotoluene (ND)



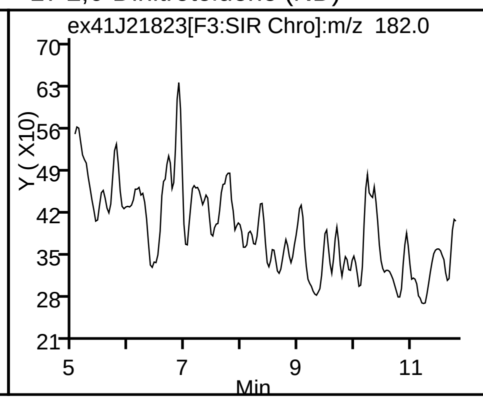
15 2,3-Dinitrotoluene (ND)



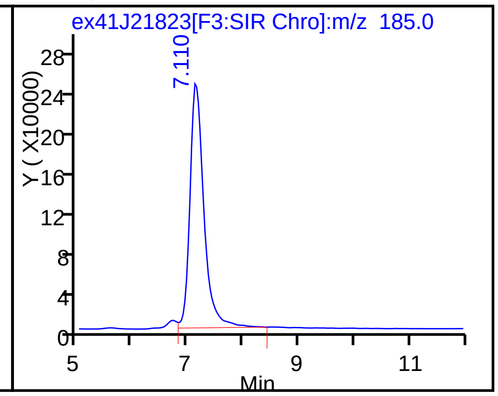
16 2-Amino-4,6-dinitrotoluene (ND)



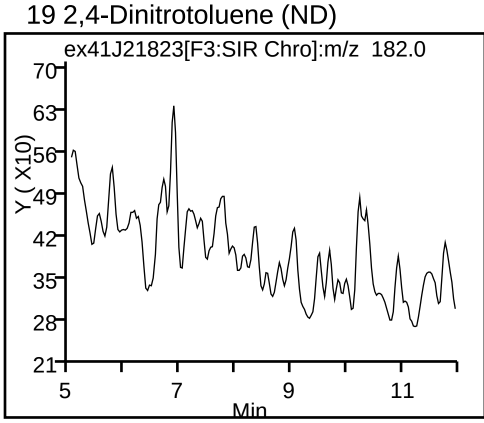
17 2,6-Dinitrotoluene (ND)



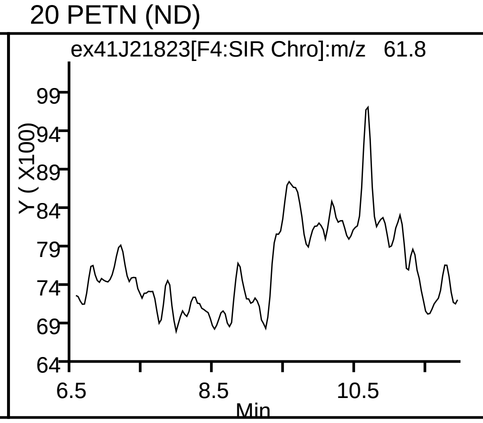
* 18 2,4-dinitrotoluene-d3



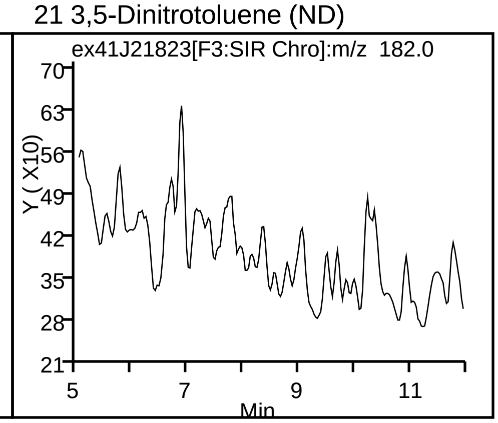
19 2,4-Dinitrotoluene (ND)



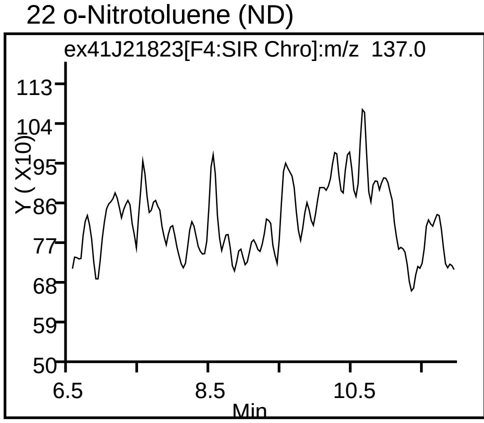
20 PETN (ND)



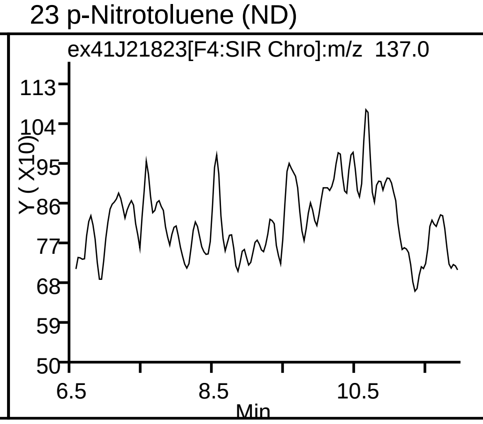
21 3,5-Dinitrotoluene (ND)



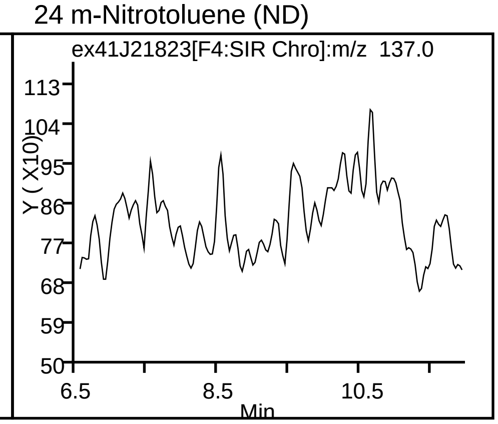
22 o-Nitrotoluene (ND)



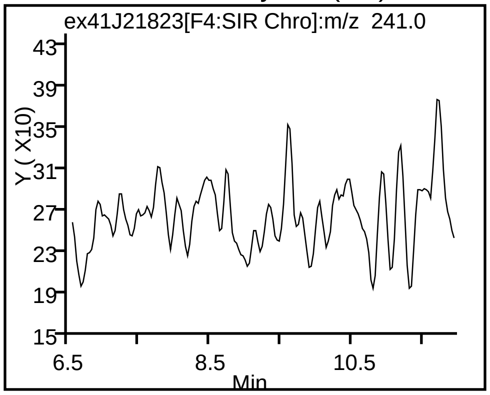
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



Report Date: 04-Nov-2011 07:37:26

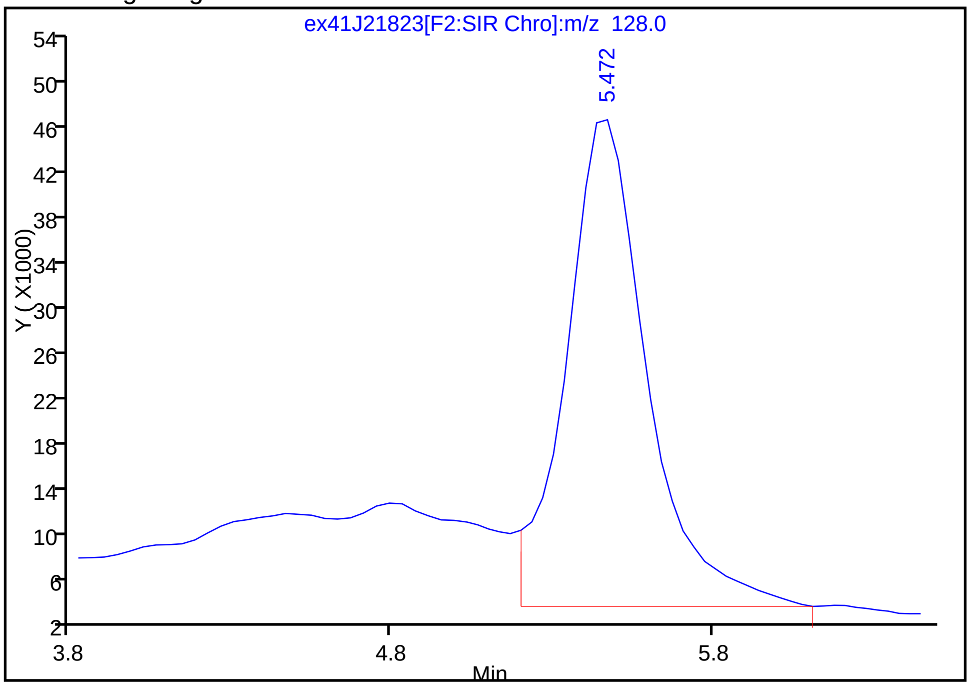
Chrom Revision: 1.2 13-Jul-2011 10:43:06
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21823.d
Injection Date:	04-Nov-2011 04:24:50
Limit Group:	LC - 8321A Expl
Client ID:	SD029
Instrument ID:	LC_LCMS4
Lims Batch ID:	94612
Lims Sample ID:	74
Operator ID:	
Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.47, Det: F2:SIR

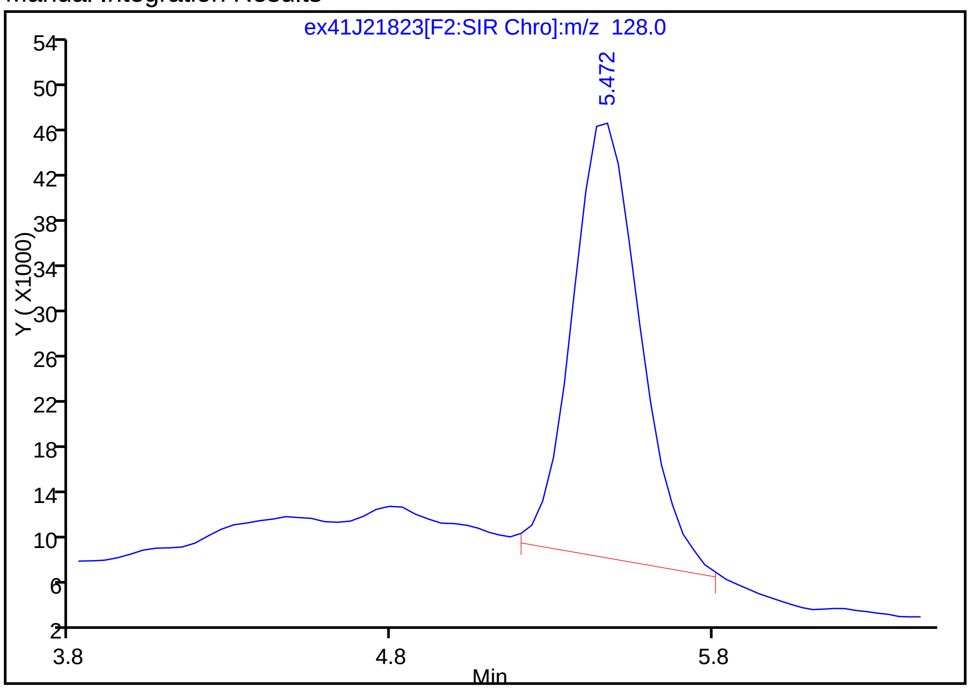
Processing Integration Results

RT: 5.47
Response: 749042
Amount: 105.3725



Manual Integration Results

RT: 5.47
Response: 561658
Amount: 78.868821



Reviewer: meyera, 04-Nov-2011 06:44:05
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP16 SD030   Lab Sample ID: 280-21902-13

Matrix: Solid   Lab File ID: ex41J21825.d

Analysis Method: 8321B   Date Collected: 10/19/2011 10:20

Extraction Method: 8330B   Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.32(g)   Date Analyzed: 11/04/2011 04:52

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80	M	68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21825.d		
Lims ID:	280-21902-A-13-C	Client ID:	SD030
Inject. Date:	04-Nov-2011 04:52:14	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-13-C 280-0002711-076		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	40
Lims Batch ID:	94612	Lims Sample ID:	76
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:36	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 07:48:56

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		737863	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2027396	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1764302	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.954							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.337							
$ 11 Nitrobenzene-d5										M
2	128.0	5.472	5.438	0.034	1.114	686489	78.7			M
12 Nitrobenzene										
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.391							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.594							
17 2,6-Dinitrotoluene										1
3	182.0		6.745							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.110	0.030		4478083	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.170							
20 PETN										1
4	61.8		7.616							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										1
4	137.0		8.132							
23 p-Nitrotoluene										1
4	137.0		8.648							
24 m-Nitrotoluene										
4	137.0		9.316							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.167							

QC Flag Legend

Processing Flags
1 - Missing Peaks

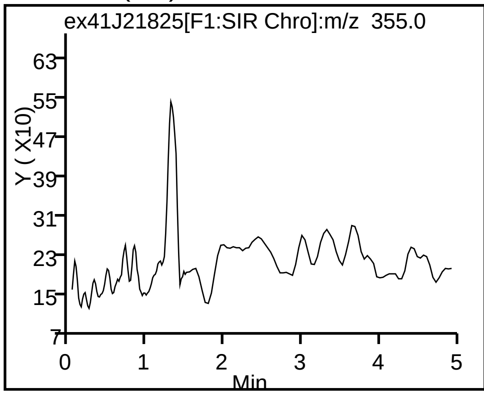
Review Flags
M - Manually Integrated

Report Date: 04-Nov-2011 07:48:57   Chrom Revision: 1.2 13-Jul-2011 10:43:06

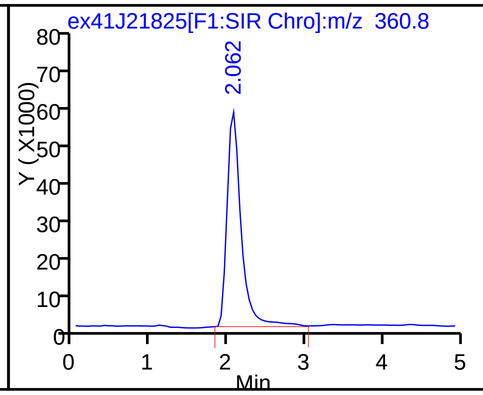
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21825.d

Injection Date:	04-Nov-2011 04:52:14	Limit Group:	LC - 8321A Expl
Client ID:	SD030	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	76
Operator ID:		Injection Vol:	40.00 ul

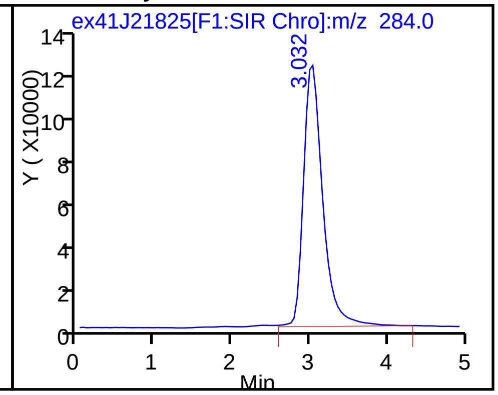
2 HMX (ND)



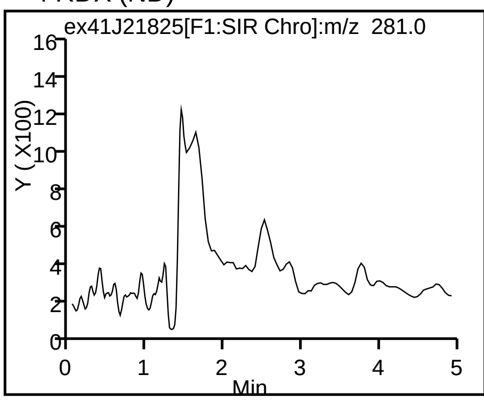
* 1 HMX-13C4



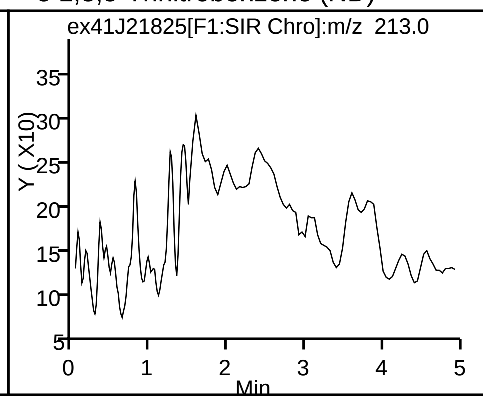
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



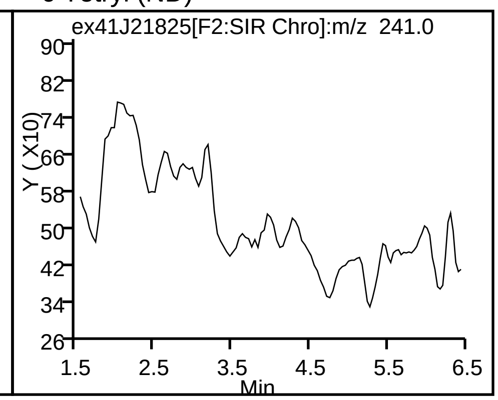
4 RDX (ND)



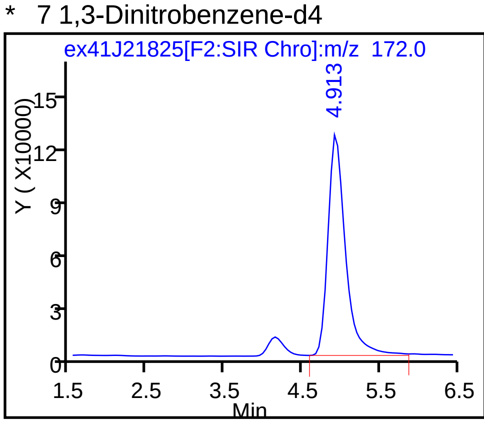
5 1,3,5-Trinitrobenzene (ND)



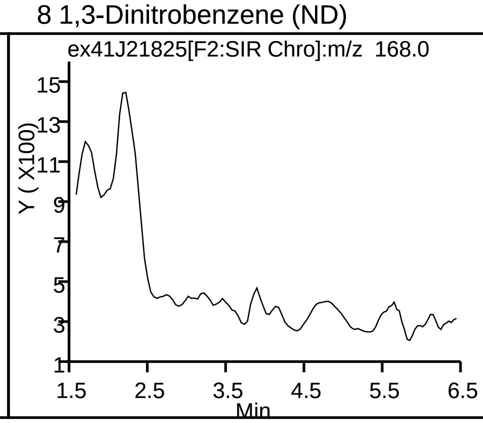
6 Tetryl (ND)



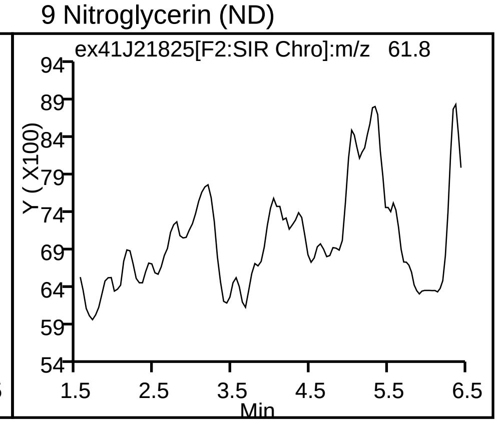
* 7 1,3-Dinitrobenzene-d4



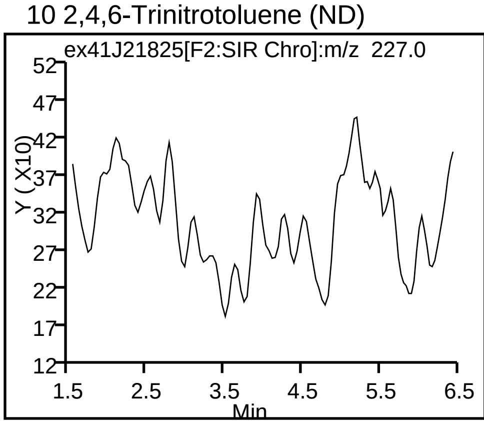
8 1,3-Dinitrobenzene (ND)



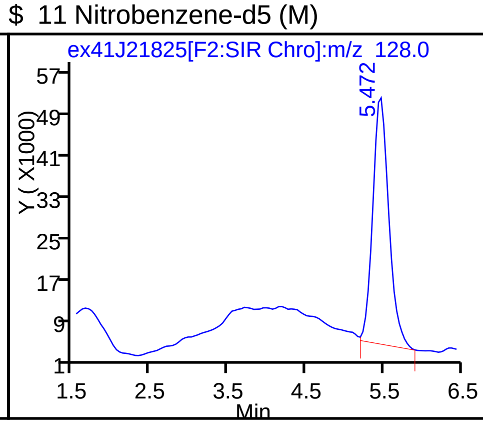
9 Nitroglycerin (ND)



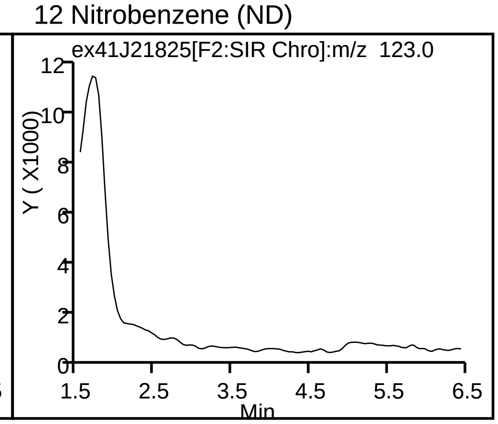
10 2,4,6-Trinitrotoluene (ND)



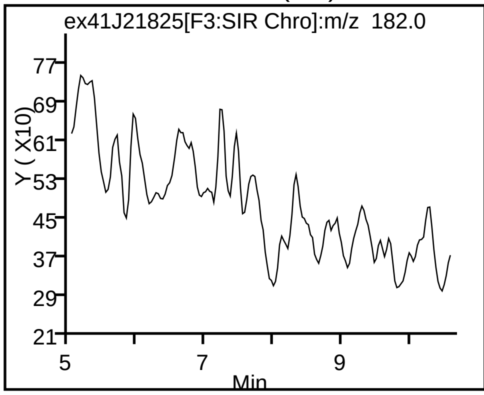
$ 11 Nitrobenzene-d5 (M)



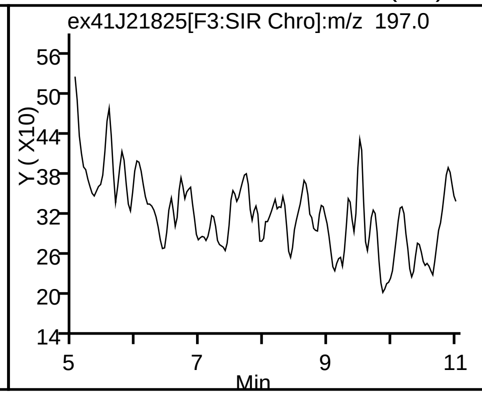
12 Nitrobenzene (ND)



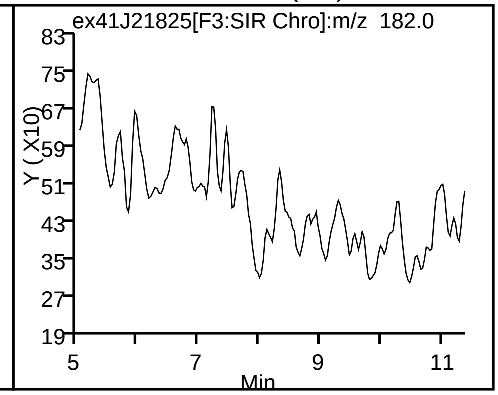
13 3,4-Dinitrotoluene (ND)



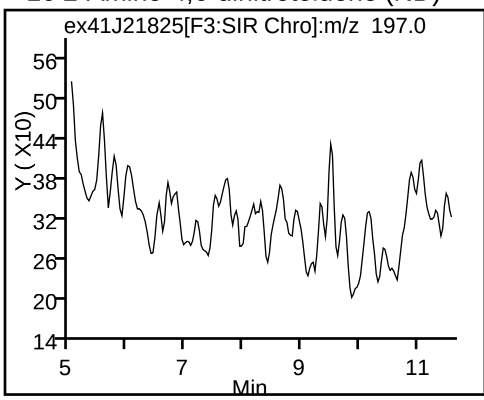
14 4-Amino-2,6-dinitrotoluene (ND)



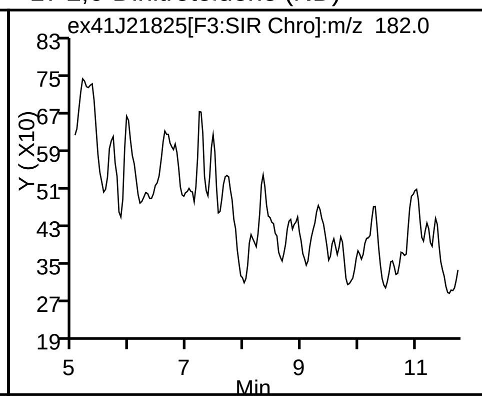
15 2,3-Dinitrotoluene (ND)



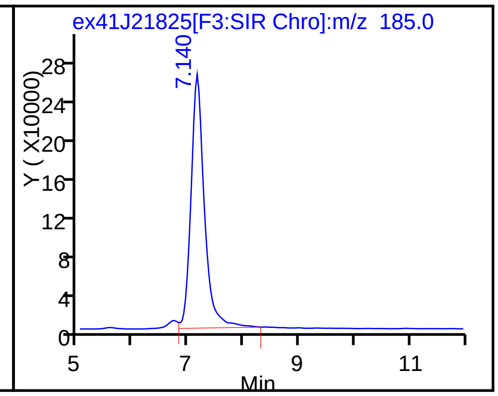
16 2-Amino-4,6-dinitrotoluene (ND)



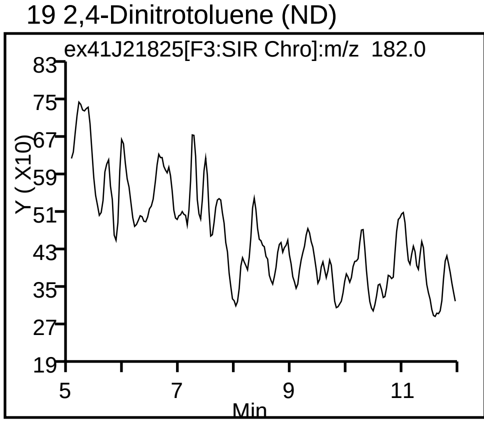
17 2,6-Dinitrotoluene (ND)



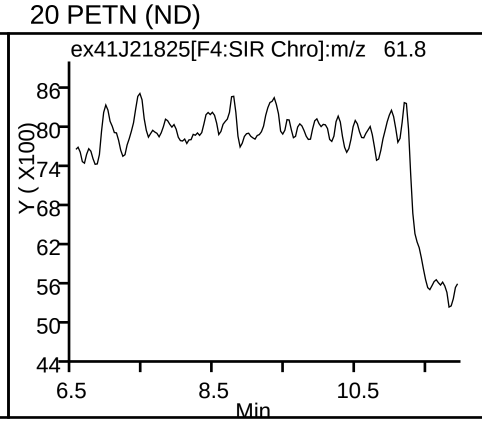
* 18 2,4-dinitrotoluene-d3



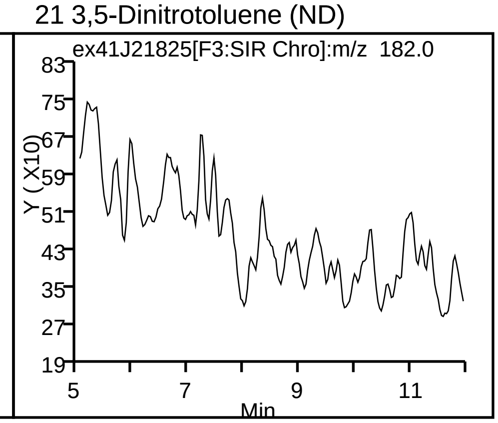
19 2,4-Dinitrotoluene (ND)



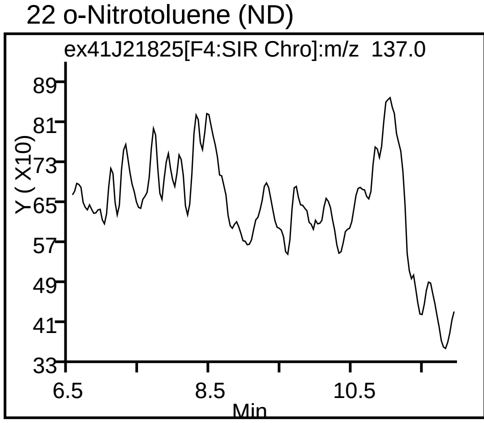
20 PETN (ND)



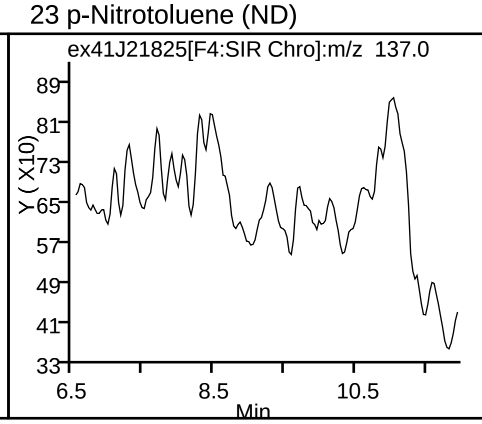
21 3,5-Dinitrotoluene (ND)



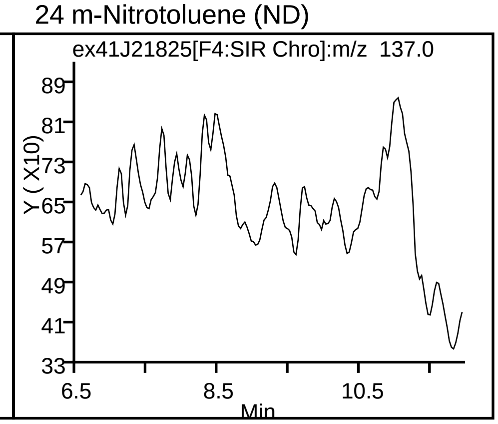
22 o-Nitrotoluene (ND)



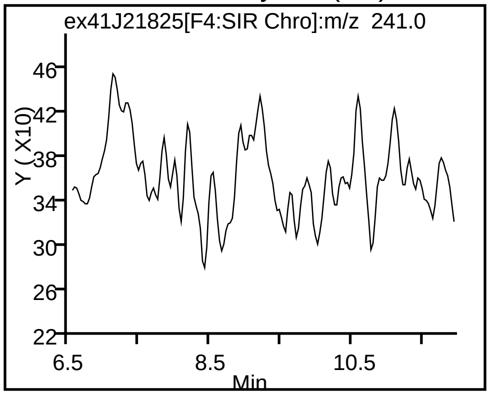
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



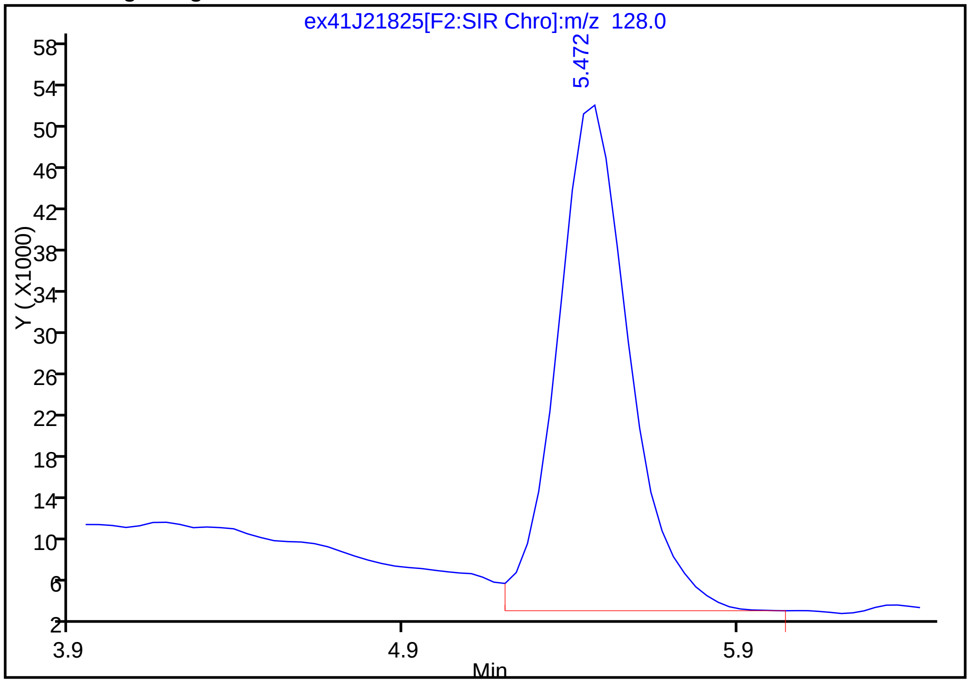
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21825.d		
Injection Date:	04-Nov-2011 04:52:14	Limit Group:	LC - 8321A Expl
Client ID:	SD030	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	76
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.44, Det: F2:SIR

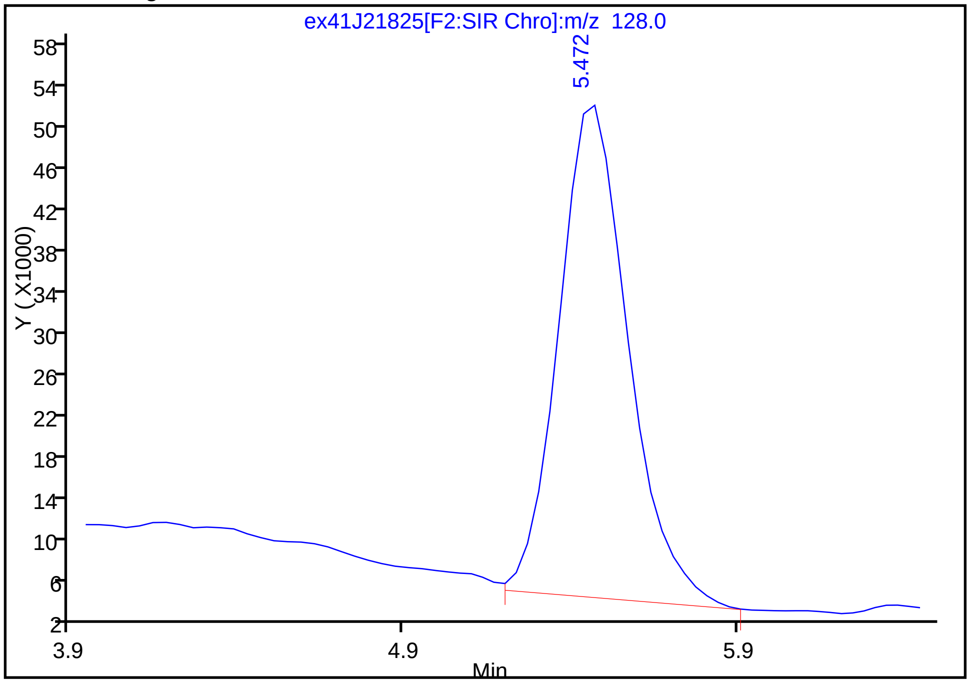
Processing Integration Results

RT: 5.47
Response: 733199
Amount: 84.147088



Manual Integration Results

RT: 5.47
Response: 686489
Amount: 78.749851



Reviewer: meyera, 04-Nov-2011 07:48:12
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP17 SD031   Lab Sample ID: 280-21902-14

Matrix: Solid   Lab File ID: ex41J21826.d

Analysis Method: 8321B   Date Collected: 10/19/2011 09:48

Extraction Method: 8330B   Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.78(g)   Date Analyzed: 11/04/2011 05:06

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.093	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0097
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85	M	68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21826.d
Lims ID: 280-21902-A-14-C Client ID: SD031
Inject. Date: 04-Nov-2011 05:06:04 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-21902-A-14-C 280-0002711-077
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 41
Lims Batch ID: 94612 Lims Sample ID: 77
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m
Last Update: 04-Nov-2011 07:37:36 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

First Level Reviewer: meyera Date: 04-Nov-2011 07:48:52

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		717889	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2192904	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1444109	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.954							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.337							
$ 11 Nitrobenzene-d5										M
2	128.0	5.472	5.438	0.034	1.114	599223	84.0			M
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15	2,3-Dinitrotoluene									1
3	182.0		6.391							
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.594							
17	2,6-Dinitrotoluene									1
3	182.0		6.745							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.140	7.110	0.030		4652414	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.170							
20	PETN									1
4	61.8		7.616							
21	3,5-Dinitrotoluene									1
3	182.0		7.778							
22	o-Nitrotoluene									1
4	137.0		8.132							
23	p-Nitrotoluene									1
4	137.0		8.648							
24	m-Nitrotoluene									1
4	137.0		9.316							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.167							

QC Flag Legend

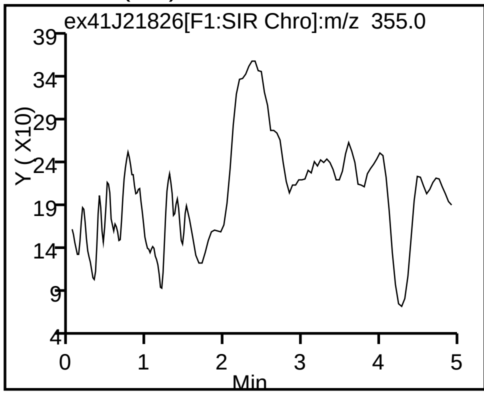
Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

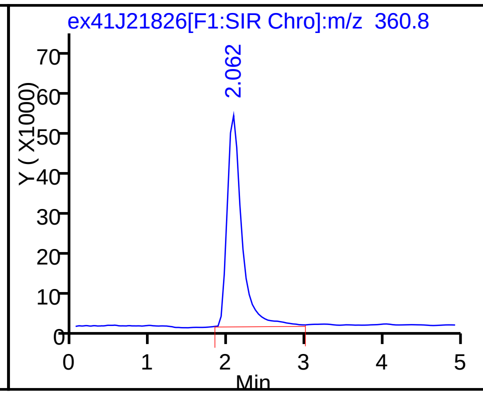
Report Date: 04-Nov-2011 07:48:52 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21826.d

Injection Date:	04-Nov-2011 05:06:04	Limit Group:	LC - 8321A Expl
Client ID:	SD031	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	77
Operator ID:		Injection Vol:	40.00 ul

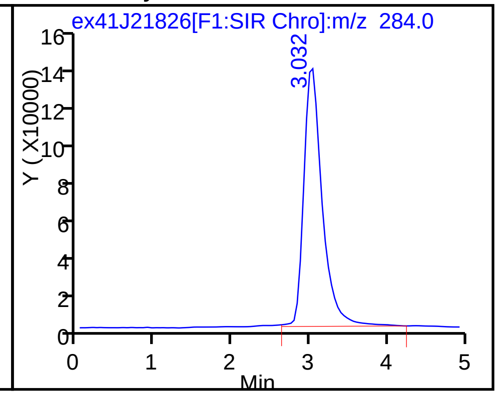
2 HMX (ND)



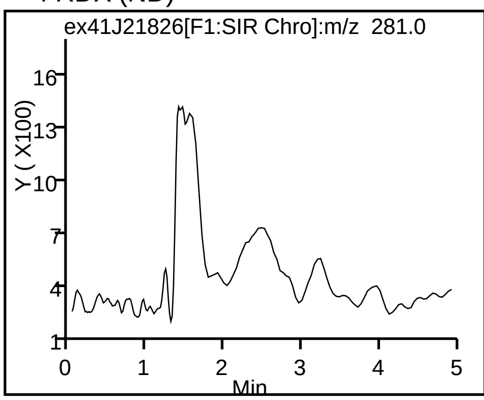
* 1 HMX-13C4



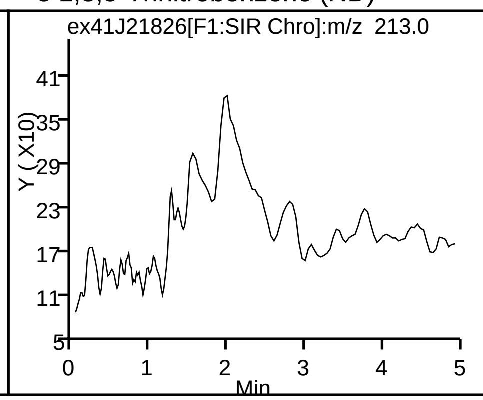
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



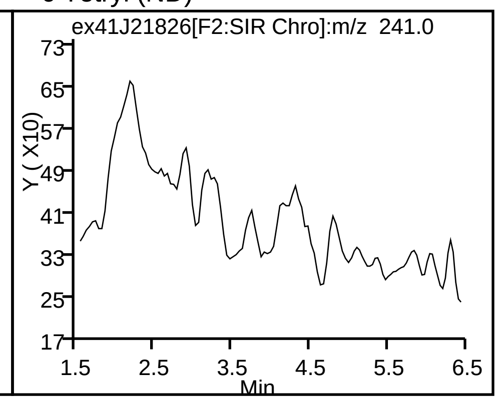
4 RDX (ND)



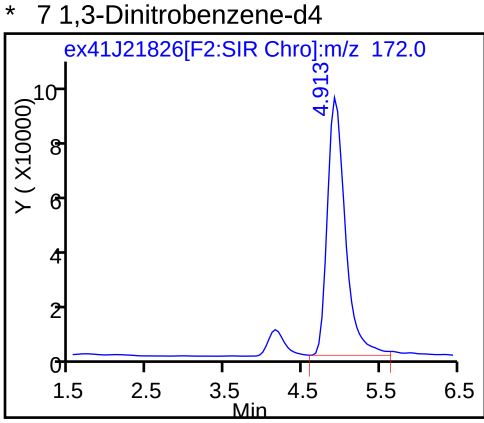
5 1,3,5-Trinitrobenzene (ND)



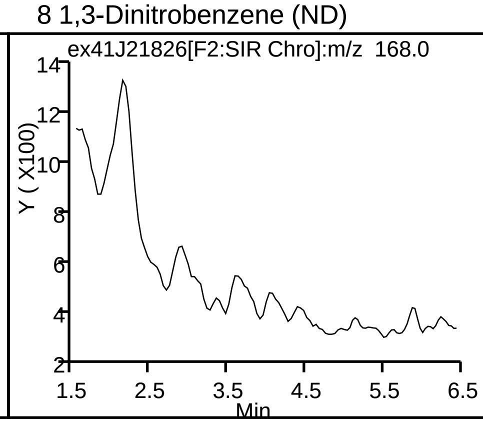
6 Tetryl (ND)



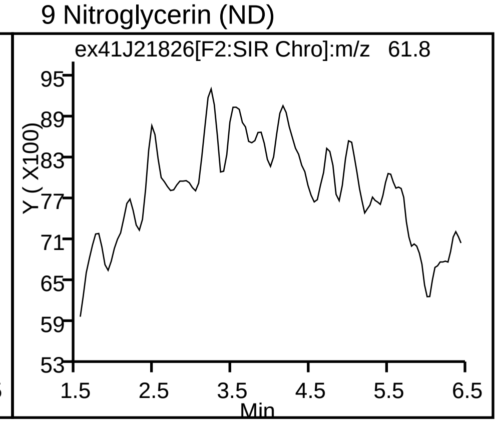
* 7 1,3-Dinitrobenzene-d4



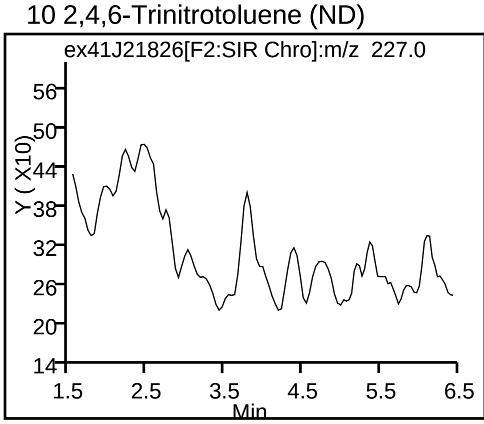
8 1,3-Dinitrobenzene (ND)



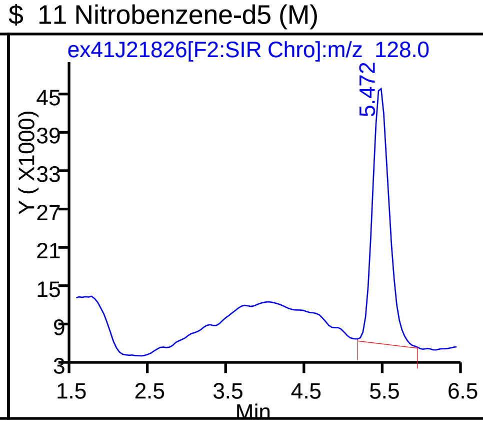
9 Nitroglycerin (ND)



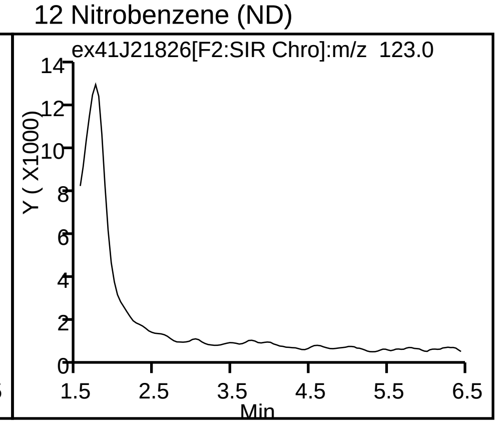
10 2,4,6-Trinitrotoluene (ND)



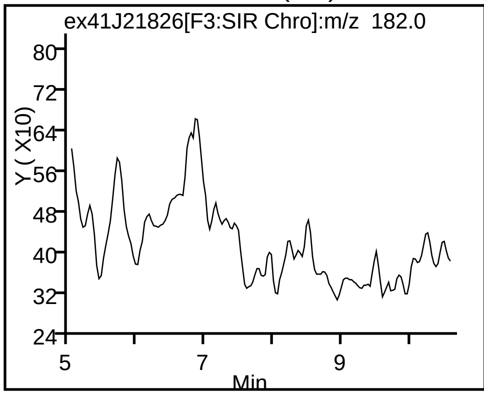
$ 11 Nitrobenzene-d5 (M)



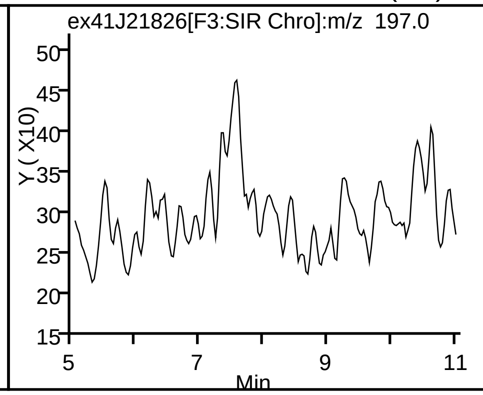
12 Nitrobenzene (ND)



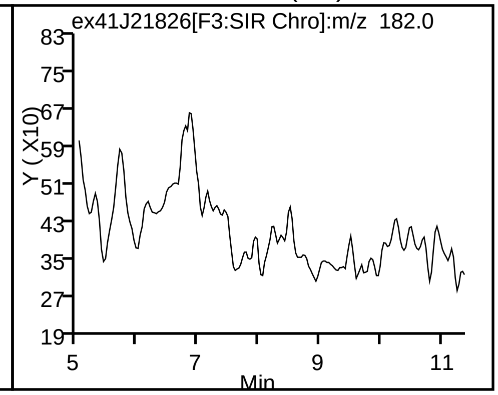
13 3,4-Dinitrotoluene (ND)



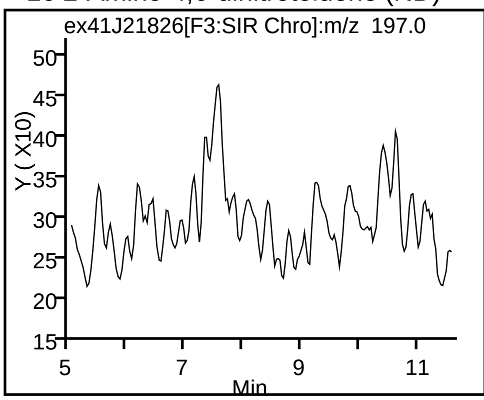
14 4-Amino-2,6-dinitrotoluene (ND)



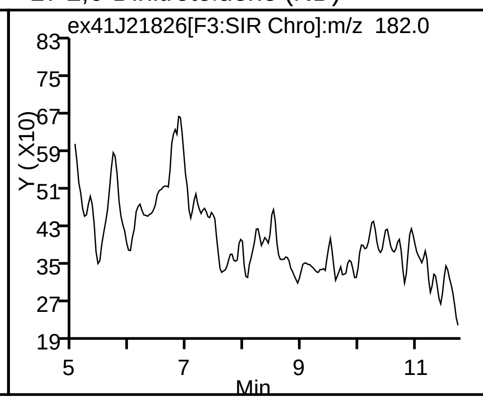
15 2,3-Dinitrotoluene (ND)



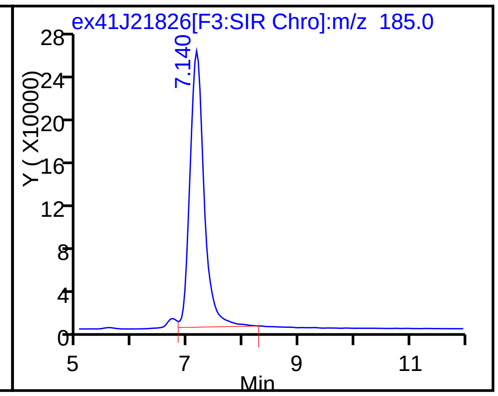
16 2-Amino-4,6-dinitrotoluene (ND)



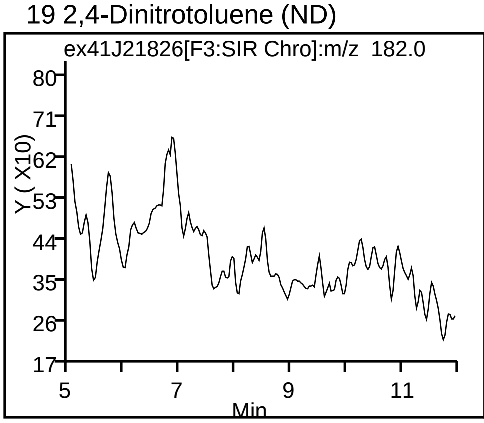
17 2,6-Dinitrotoluene (ND)



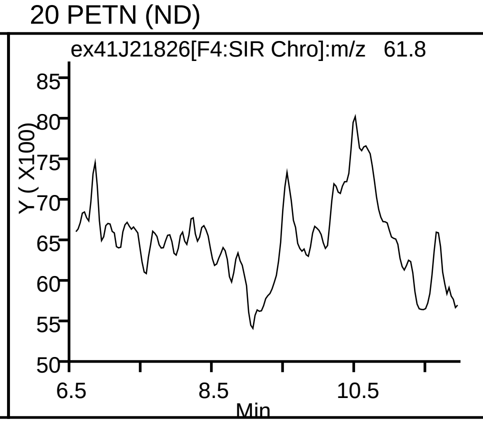
* 18 2,4-dinitrotoluene-d3



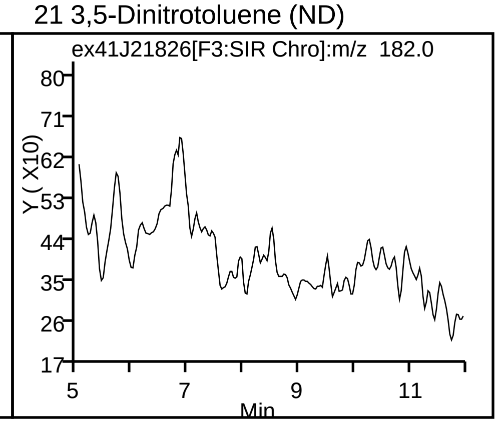
19 2,4-Dinitrotoluene (ND)



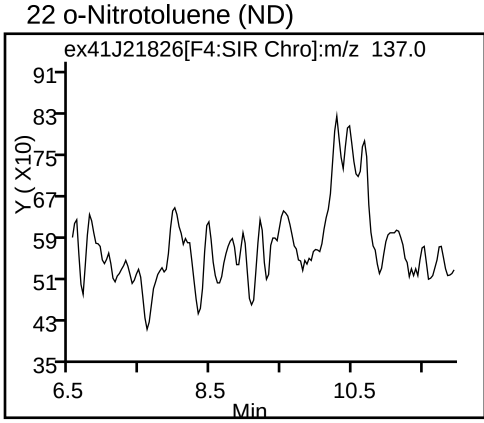
20 PETN (ND)



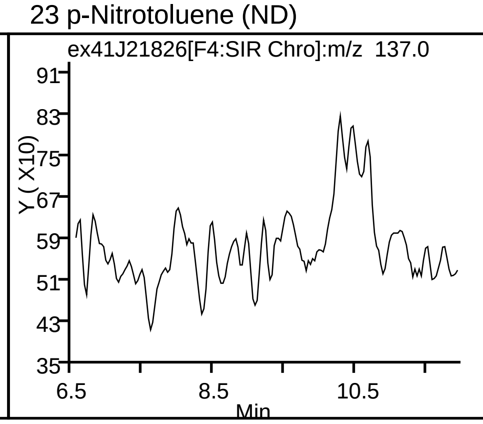
21 3,5-Dinitrotoluene (ND)



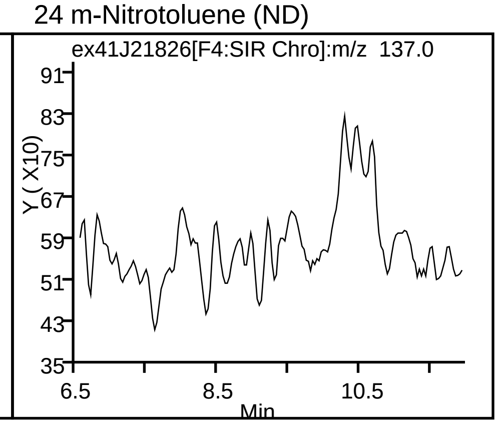
22 o-Nitrotoluene (ND)



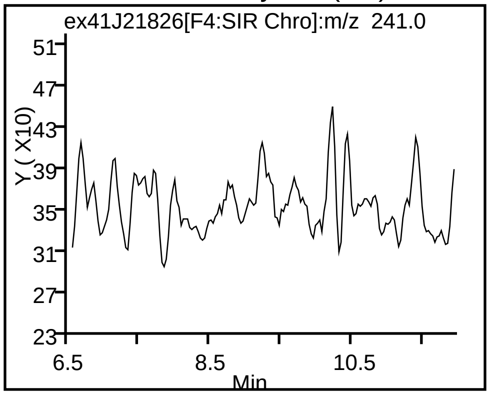
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



Report Date: 04-Nov-2011 07:48:52 Chrom Revision: 1.2 13-Jul-2011 10:43:06

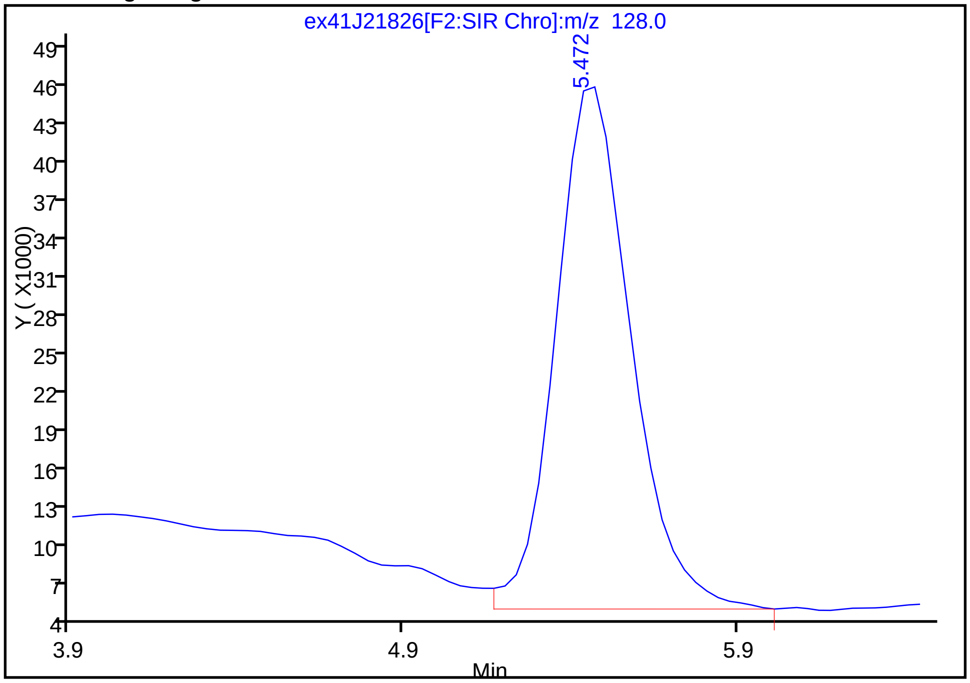
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21826.d		
Injection Date:	04-Nov-2011 05:06:04	Limit Group:	LC - 8321A Expl
Client ID:	SD031	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	77
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.44, Det: F2:SIR

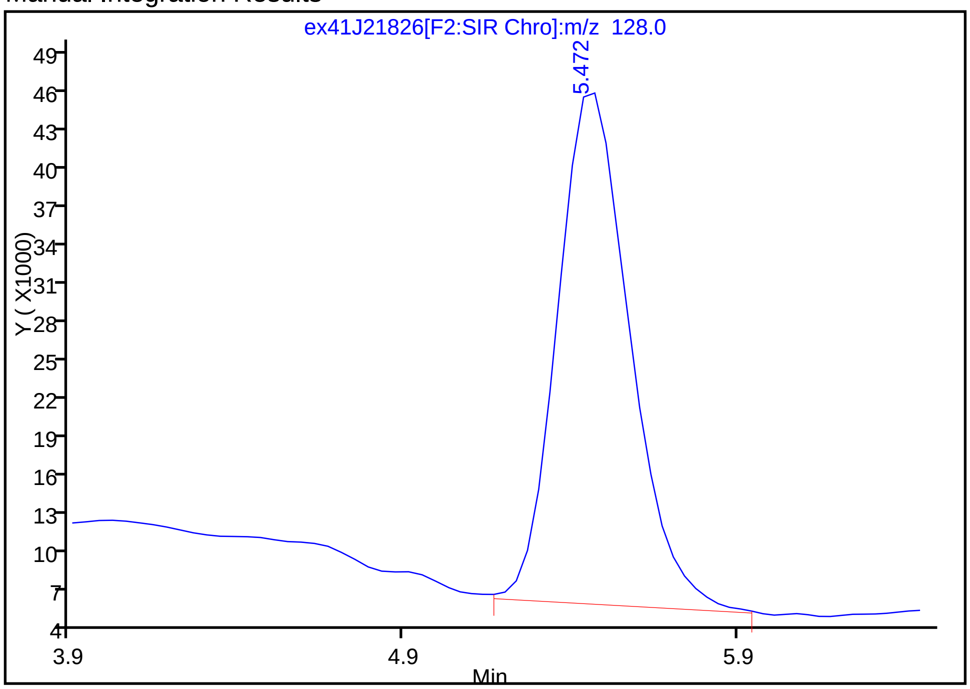
Processing Integration Results

RT: 5.47
Response: 633994
Amount: 88.926886



Manual Integration Results

RT: 5.47
Response: 599223
Amount: 84.018352



Reviewer: meyera, 04-Nov-2011 07:48:23
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP18 SD032 Lab Sample ID: 280-21902-15

Matrix: Solid Lab File ID: ex41J21827.d

Analysis Method: 8321B Date Collected: 10/19/2011 10:45

Extraction Method: 8330B Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.09(g) Date Analyzed: 11/04/2011 05:19

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83	M	68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21827.d		
Lims ID:	280-21902-B-15-B	Client ID:	SD032
Inject. Date:	04-Nov-2011 05:19:38	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-15-B 280-0002711-078		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	42
Lims Batch ID:	94612	Lims Sample ID:	78
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:36	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 07:48:46

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		773919	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2330506	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1463156	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.954							
9 Nitroglycerin										1
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.337							
$ 11 Nitrobenzene-d5										M
2	128.0	5.472	5.438	0.034	1.105	594410	82.2			M
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15	2,3-Dinitrotoluene									1
3	182.0		6.391							
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.594							
17	2,6-Dinitrotoluene									1
3	182.0		6.745							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.140	7.110	0.030		4088959	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.170							
20	PETN									1
4	61.8		7.616							
21	3,5-Dinitrotoluene									1
3	182.0		7.778							
22	o-Nitrotoluene									1
4	137.0		8.132							
23	p-Nitrotoluene									1
4	137.0		8.648							
24	m-Nitrotoluene									
4	137.0		9.316							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.167							

QC Flag Legend

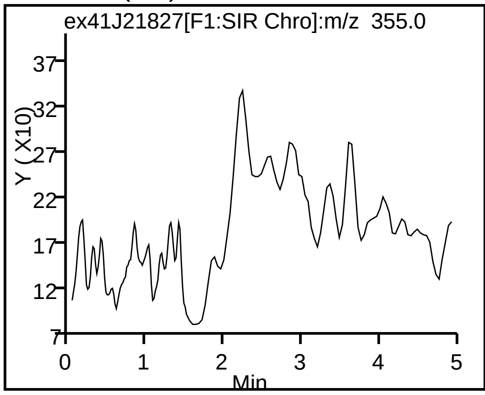
Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

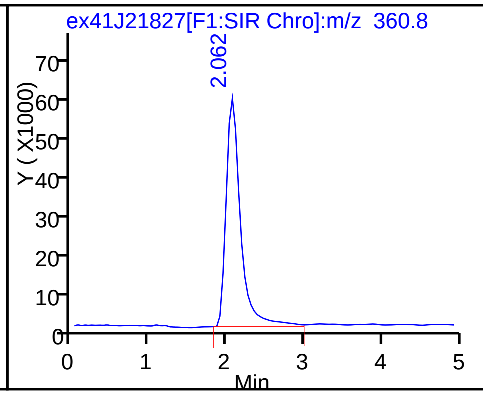
Report Date: 04-Nov-2011 07:48:47 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21827.d

Injection Date:	04-Nov-2011 05:19:38	Limit Group:	LC - 8321A Expl
Client ID:	SD032	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	78
Operator ID:		Injection Vol:	40.00 ul

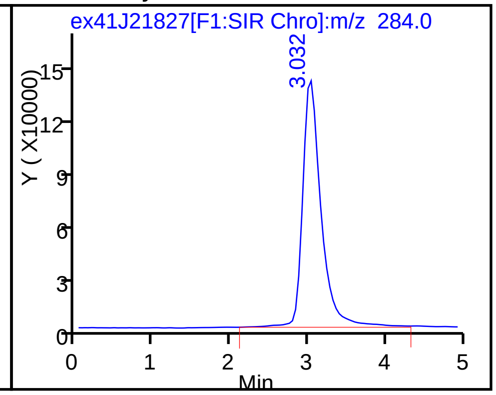
2 HMX (ND)



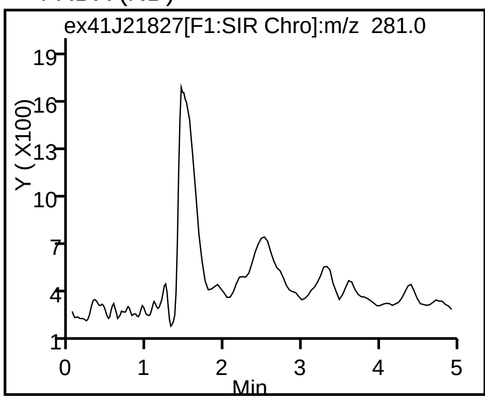
* 1 HMX-13C4



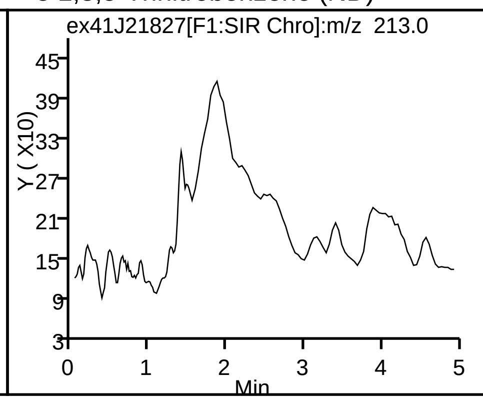
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



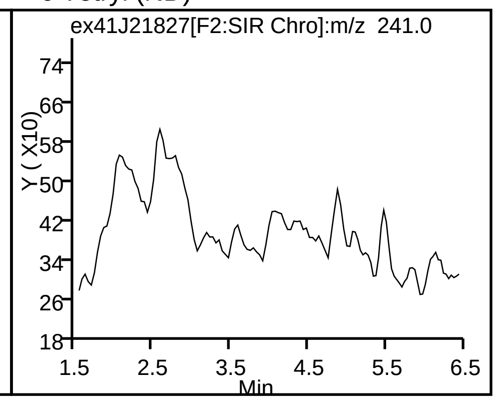
4 RDX (ND)



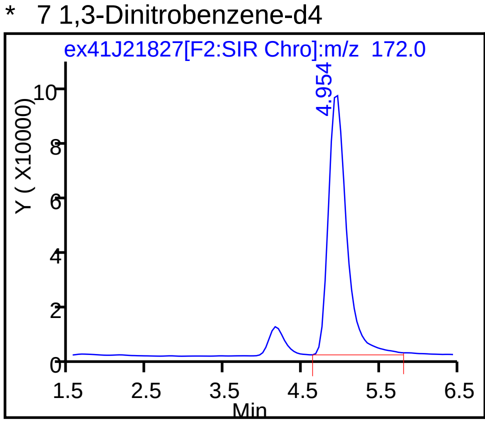
5 1,3,5-Trinitrobenzene (ND)



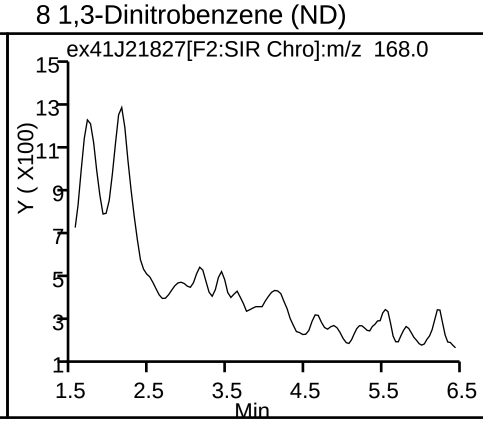
6 Tetryl (ND)



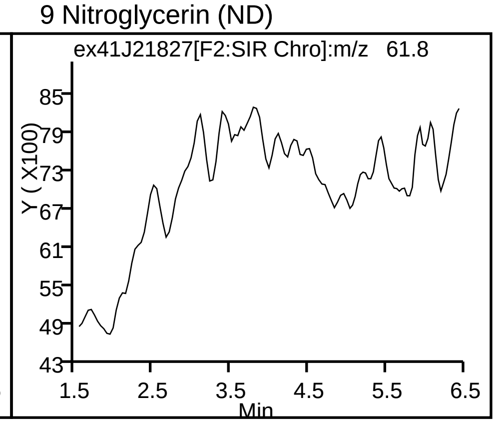
* 7 1,3-Dinitrobenzene-d4



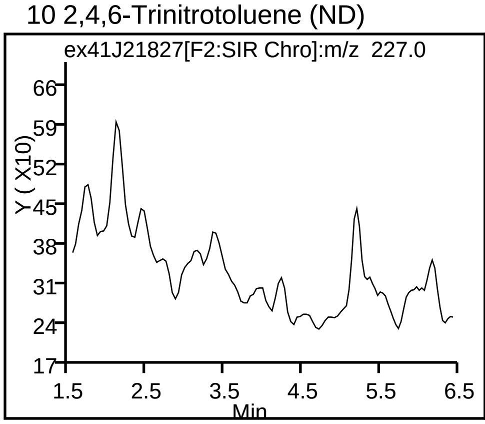
8 1,3-Dinitrobenzene (ND)



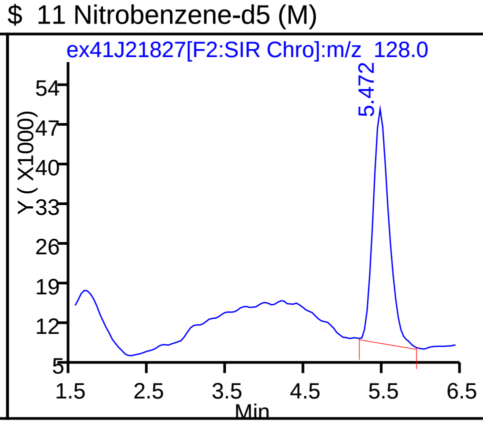
9 Nitroglycerin (ND)



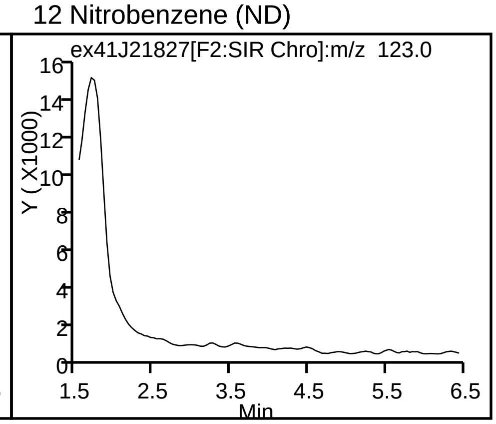
10 2,4,6-Trinitrotoluene (ND)



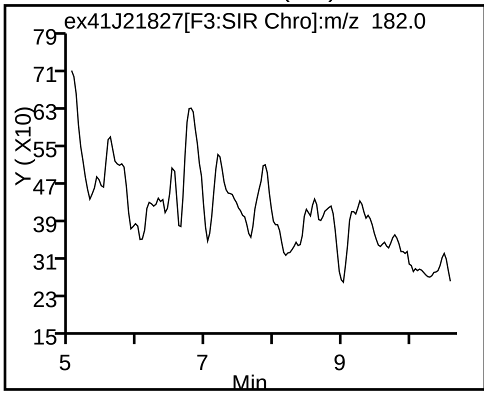
$ 11 Nitrobenzene-d5 (M)



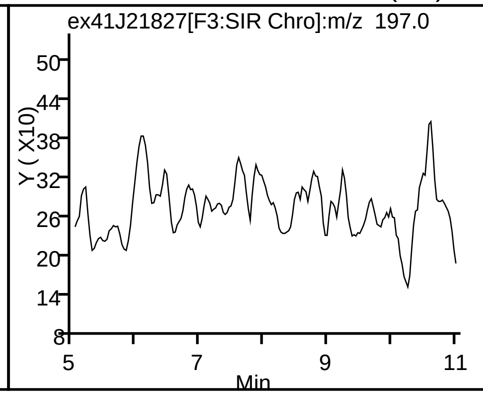
12 Nitrobenzene (ND)



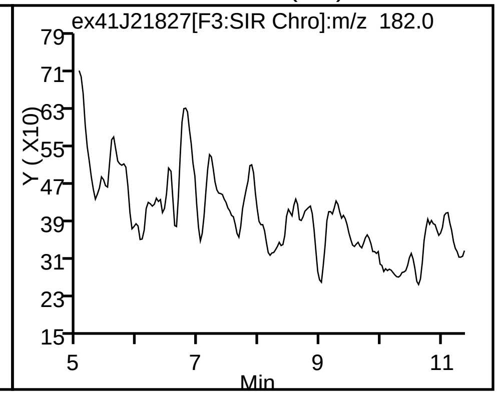
13 3,4-Dinitrotoluene (ND)



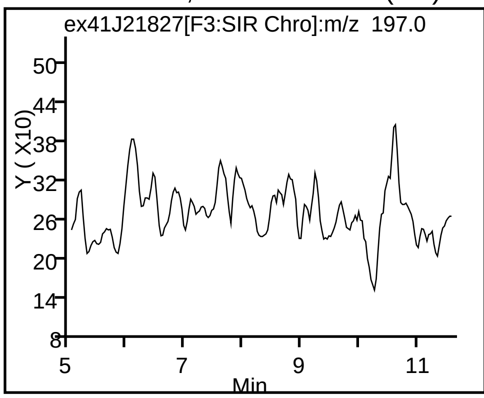
14 4-Amino-2,6-dinitrotoluene (ND)



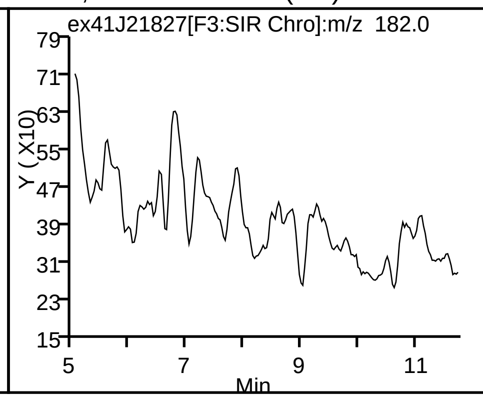
15 2,3-Dinitrotoluene (ND)



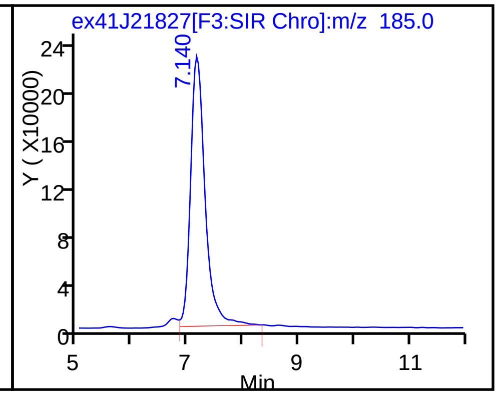
16 2-Amino-4,6-dinitrotoluene (ND)



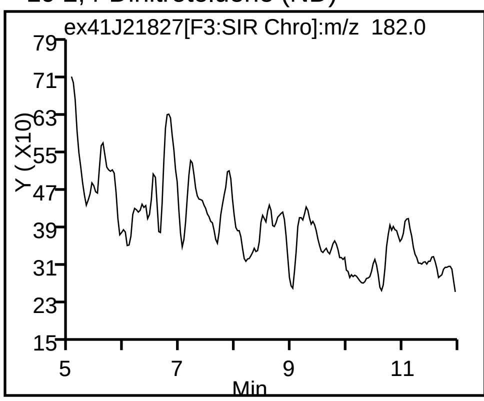
17 2,6-Dinitrotoluene (ND)



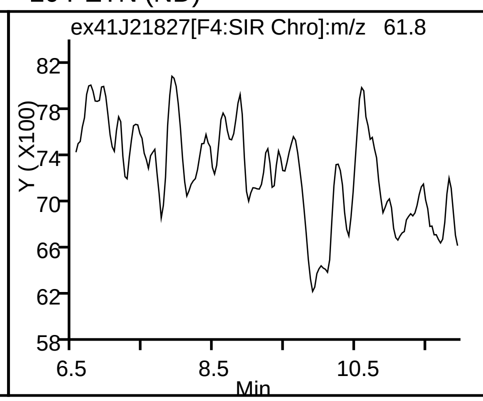
* 18 2,4-dinitrotoluene-d3



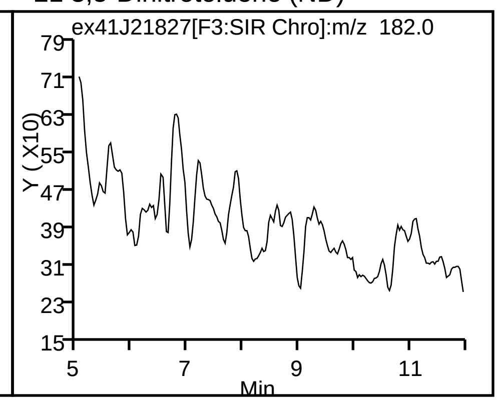
19 2,4-Dinitrotoluene (ND)



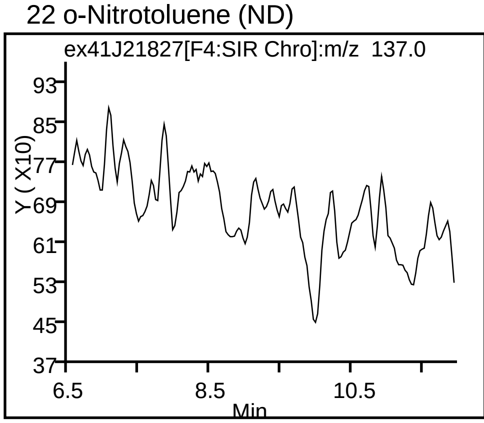
20 PETN (ND)



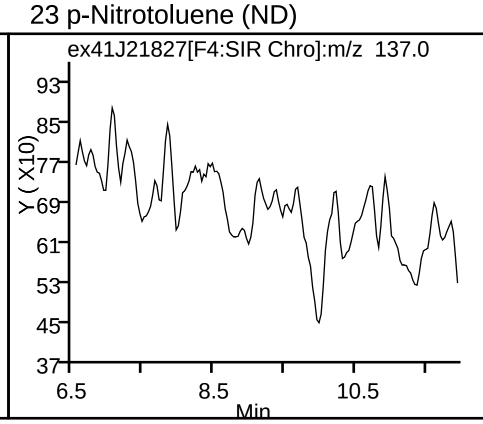
21 3,5-Dinitrotoluene (ND)



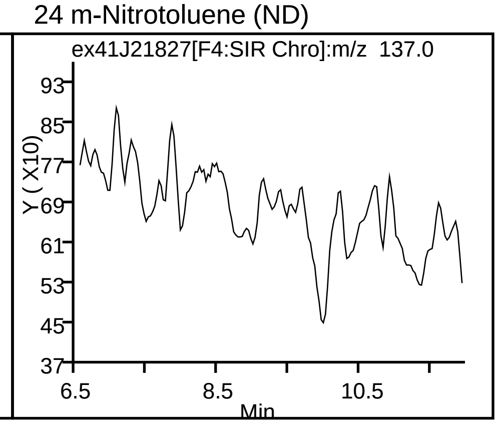
22 o-Nitrotoluene (ND)



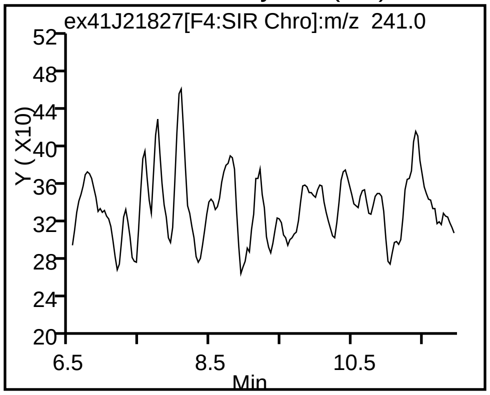
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



Report Date: 04-Nov-2011 07:48:47 Chrom Revision: 1.2 13-Jul-2011 10:43:06

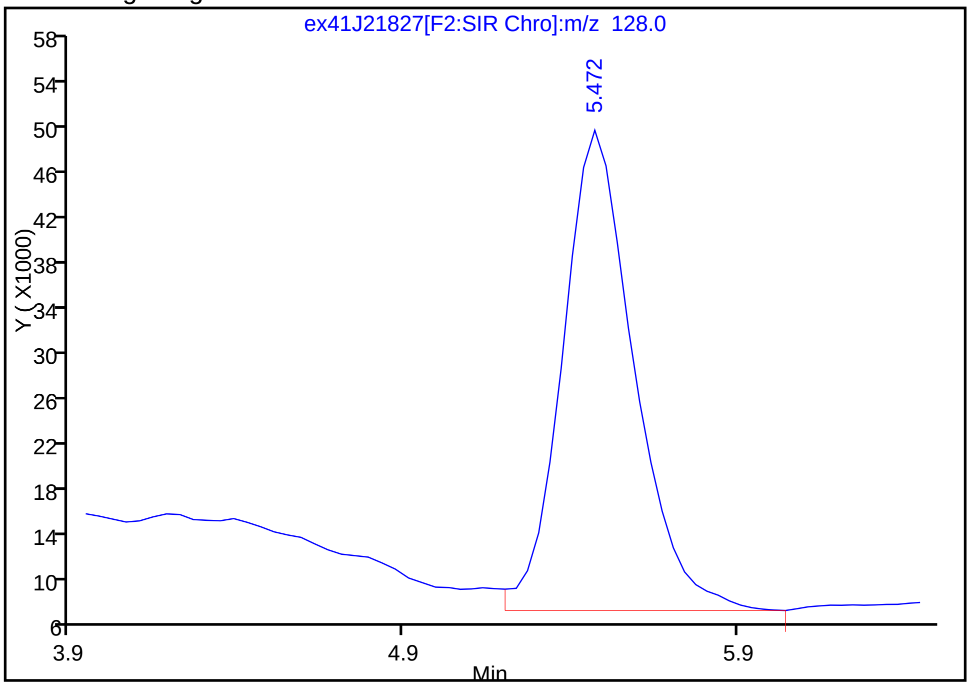
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21827.d		
Injection Date:	04-Nov-2011 05:19:38	Limit Group:	LC - 8321A Expl
Client ID:	SD032	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	78
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.44, Det: F2:SIR

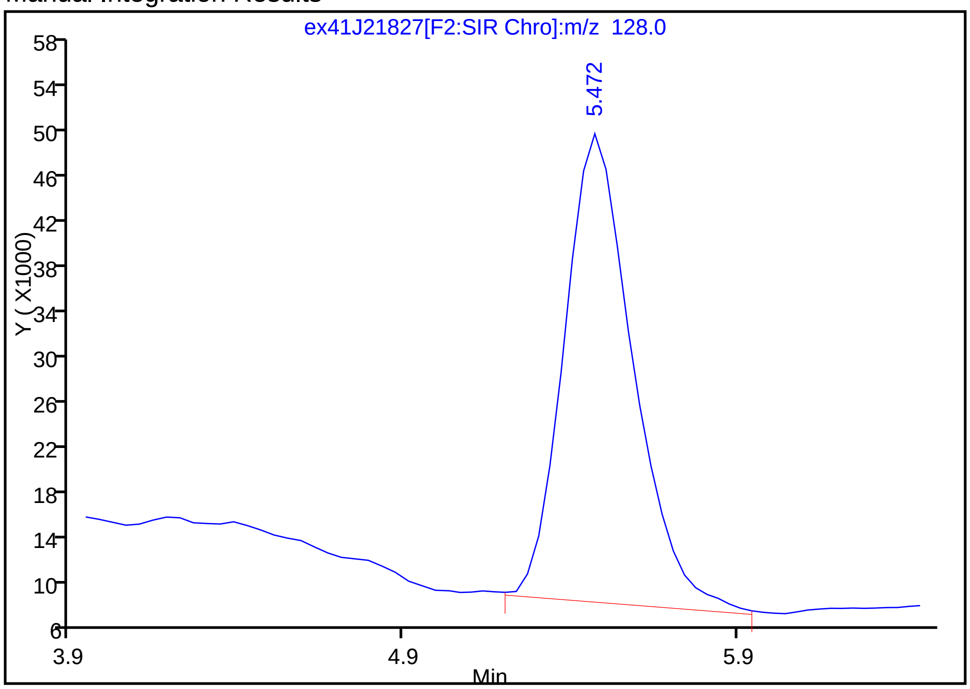
Processing Integration Results

RT: 5.47
Response: 630942
Amount: 87.336572



Manual Integration Results

RT: 5.47
Response: 594410
Amount: 82.246576



Reviewer: meyera, 04-Nov-2011 07:48:35
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I

LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP19 SD033 | Lab Sample ID: 280-21902-16

Matrix: Solid | Lab File ID: ex41J21828.d

Analysis Method: 8321B | Date Collected: 10/19/2011 10:40

Extraction Method: 8330B | Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.28(g) | Date Analyzed: 11/04/2011 05:33

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	79		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21828.d		
Lims ID:	280-21902-A-16-C	Client ID:	SD033
Inject. Date:	04-Nov-2011 05:33:12	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-16-C 280-0002711-079		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	43
Lims Batch ID:	94612	Lims Sample ID:	79
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:27	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									1
1	355.0		2.062							
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		647552	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	2.991	0.041		1906065	250.0			
	4 RDX									
1	281.0		3.032							
	5 1,3,5-Trinitrobenzene									1
1	213.0		3.759							
	6 Tetryl									1
2	241.0		4.429							
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.913	4.954	-0.041		1593417	258.7			
	8 1,3-Dinitrobenzene									1
2	168.0		4.994							
	9 Nitroglycerin									
2	61.8		4.994							
	10 2,4,6-Trinitrotoluene									1
2	227.0		5.371							
$	11 Nitrobenzene-d5									
2	128.0	5.472	5.439	0.033	1.114	617446	78.4			
	12 Nitrobenzene									1
2	123.0		5.573							
	13 3,4-Dinitrotoluene									1
3	182.0		5.617							
	14 4-Amino-2,6-dinitrotoluene									1
3	197.0		6.055							
	15 2,3-Dinitrotoluene									1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4781944	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										1
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

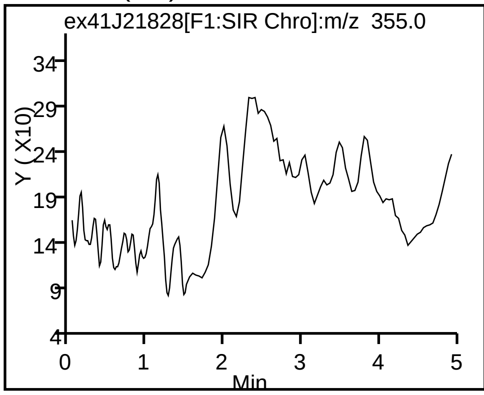
QC Flag Legend

Processing Flags
1 - Missing Peaks

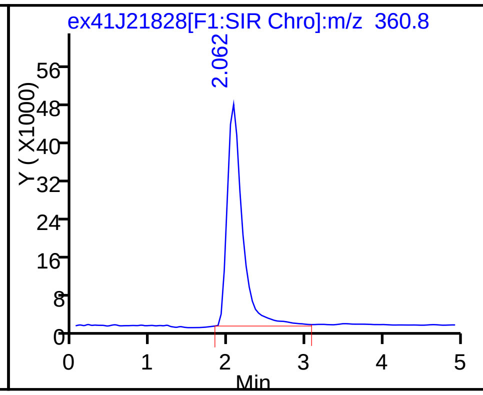
Report Date: 04-Nov-2011 07:37:31 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21828.d

Injection Date:	04-Nov-2011 05:33:12	Limit Group:	LC - 8321A Expl
Client ID:	SD033	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	79
Operator ID:		Injection Vol:	40.00 ul

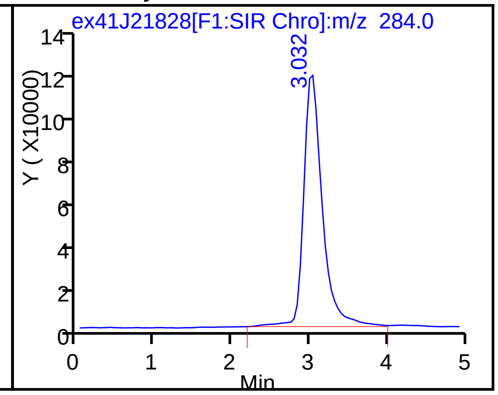
2 HMX (ND)



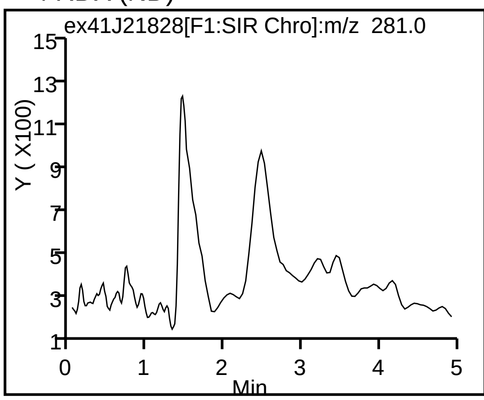
* 1 HMX-13C4



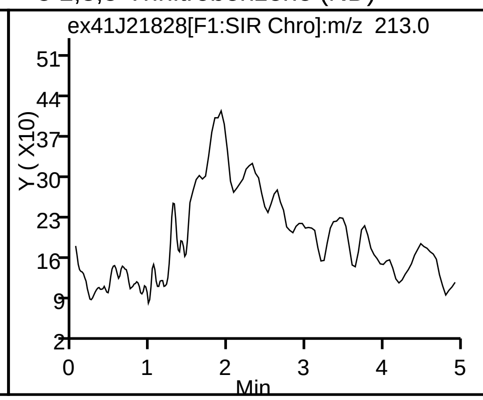
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



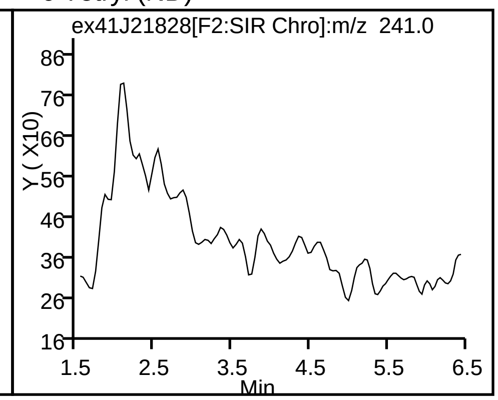
4 RDX (ND)



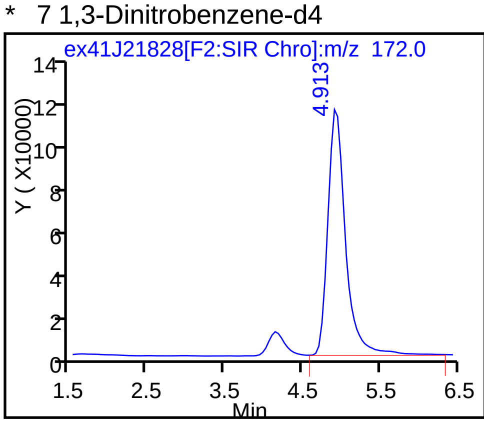
5 1,3,5-Trinitrobenzene (ND)



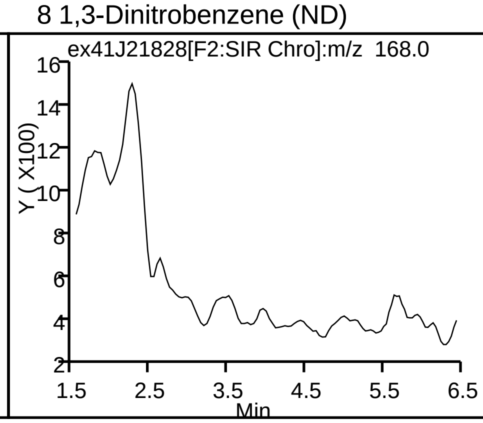
6 Tetryl (ND)



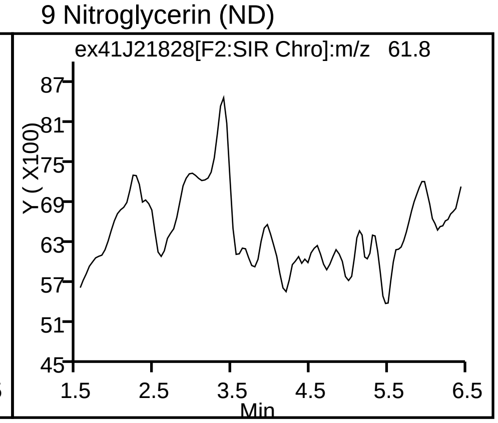
* 7 1,3-Dinitrobenzene-d4



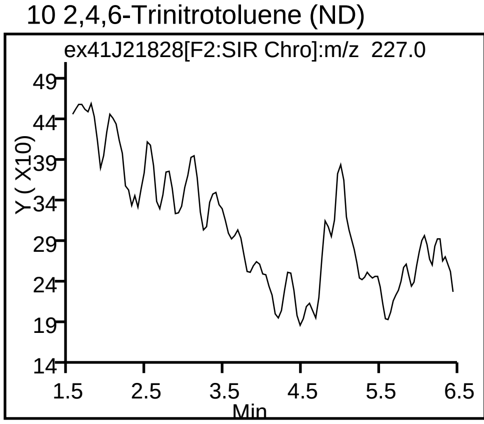
8 1,3-Dinitrobenzene (ND)



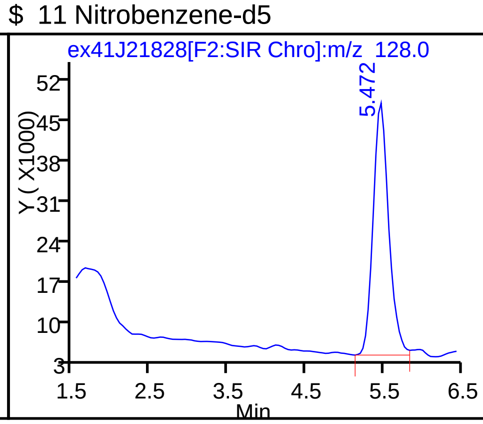
9 Nitroglycerin (ND)



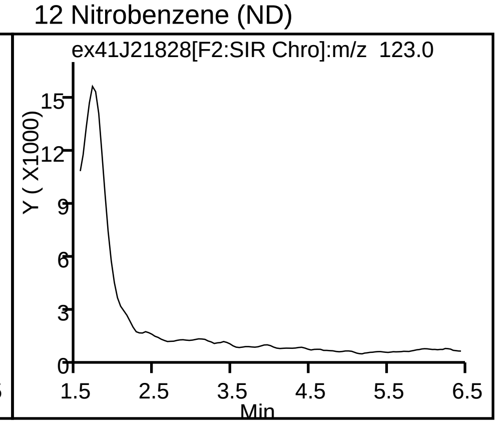
10 2,4,6-Trinitrotoluene (ND)



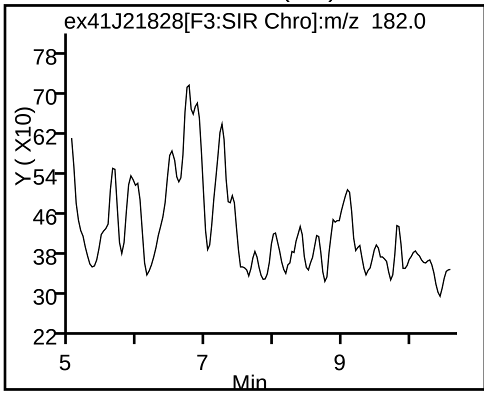
$ 11 Nitrobenzene-d5



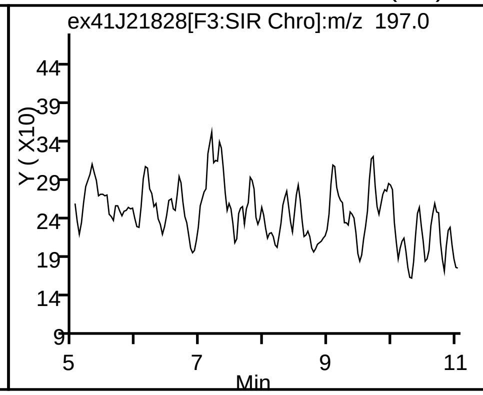
12 Nitrobenzene (ND)



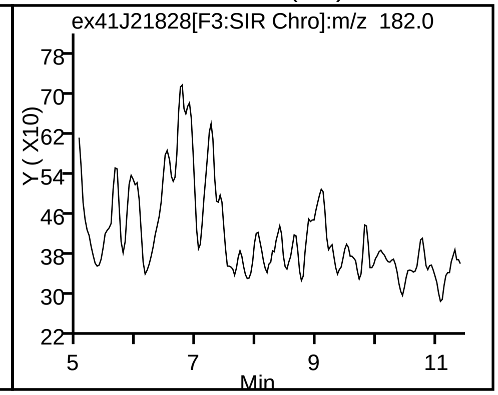
13 3,4-Dinitrotoluene (ND)



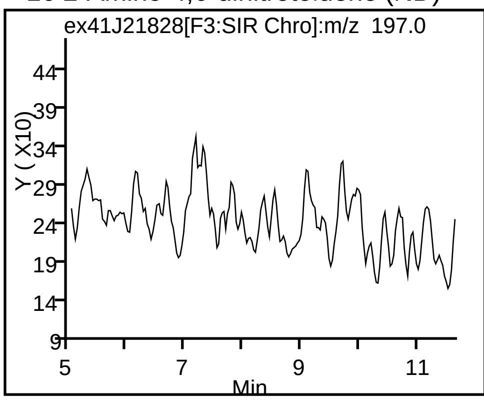
14 4-Amino-2,6-dinitrotoluene (ND)



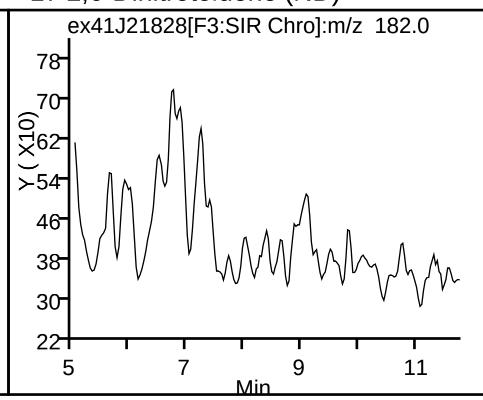
15 2,3-Dinitrotoluene (ND)



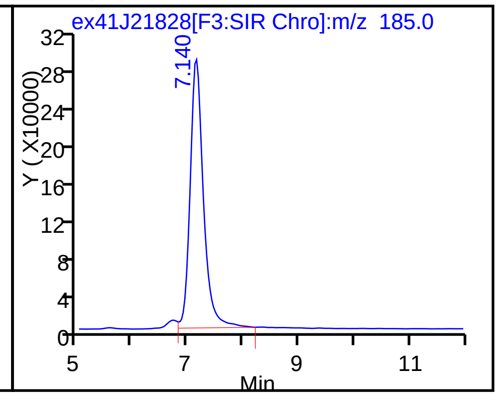
16 2-Amino-4,6-dinitrotoluene (ND)



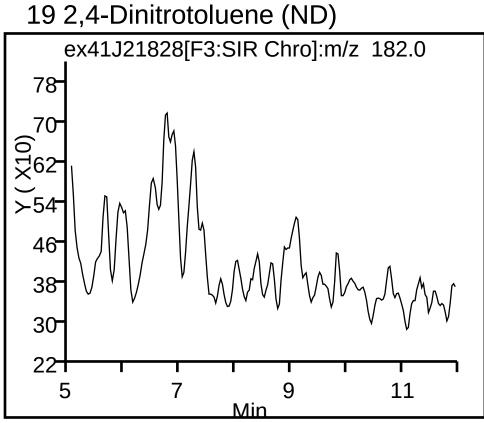
17 2,6-Dinitrotoluene (ND)



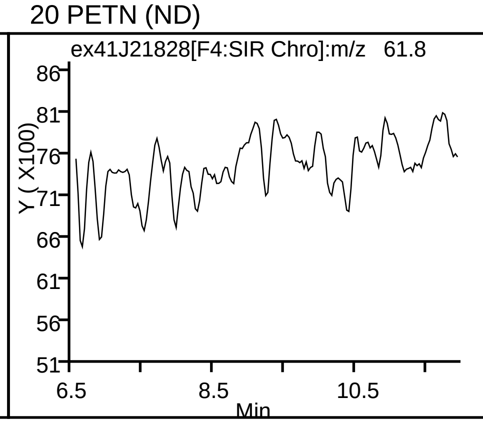
* 18 2,4-dinitrotoluene-d3



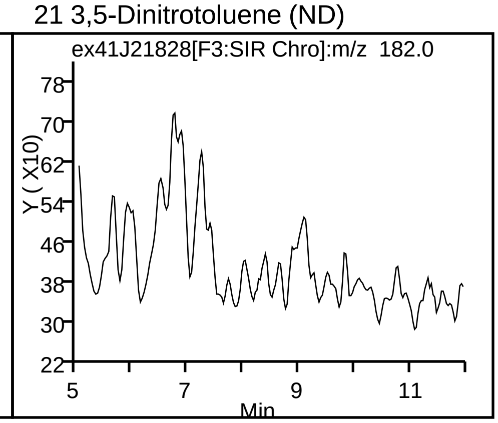
19 2,4-Dinitrotoluene (ND)



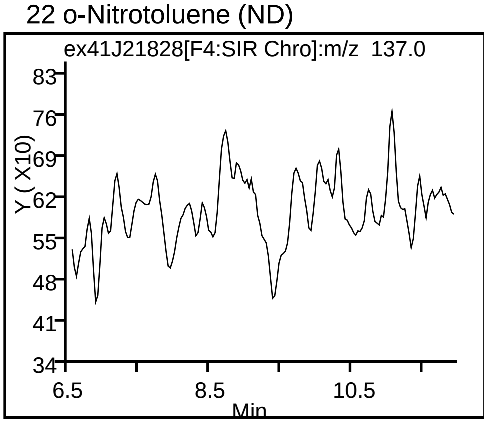
20 PETN (ND)



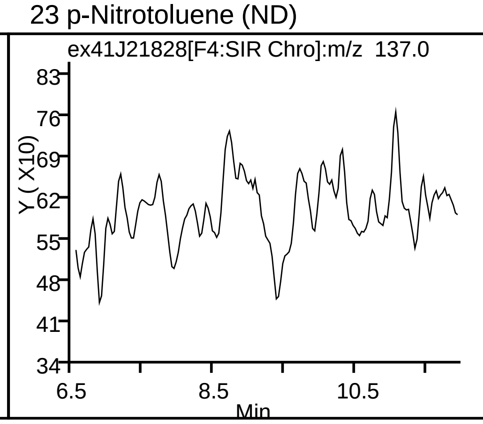
21 3,5-Dinitrotoluene (ND)



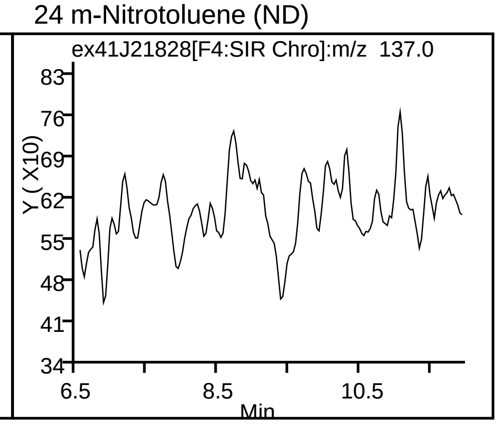
22 o-Nitrotoluene (ND)



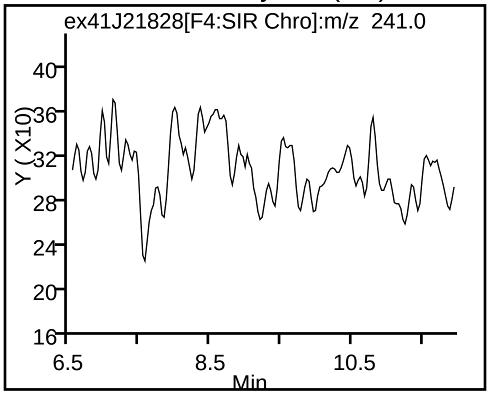
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP20 SD034 | Lab Sample ID: 280-21902-17

Matrix: Solid | Lab File ID: ex41J21829.d

Analysis Method: 8321B | Date Collected: 10/19/2011 11:05

Extraction Method: 8330B | Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.71(g) | Date Analyzed: 11/04/2011 05:46

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0054
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.093	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0098
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81	M	68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21829.d		
Lims ID:	280-21902-B-17-B	Client ID:	SD034
Inject. Date:	04-Nov-2011 05:46:46	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-17-B 280-0002711-080		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	44
Lims Batch ID:	94612	Lims Sample ID:	80
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:27	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 04-Nov-2011 06:45:22

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		745664	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	2.991	0.000		2313712	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.954	-0.041		1687716	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										M
2	128.0	5.472	5.439	0.033	1.114	664753	79.7			M
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15	2,3-Dinitrotoluene									1
3	182.0		6.425							
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.654							
17	2,6-Dinitrotoluene									1
3	182.0		6.776							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.140	7.140	0.000		4893497	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.201							
20	PETN									1
4	61.8		7.646							
21	3,5-Dinitrotoluene									1
3	182.0		7.808							
22	o-Nitrotoluene									1
4	137.0		8.163							
23	p-Nitrotoluene									1
4	137.0		8.709							
24	m-Nitrotoluene									
4	137.0		9.377							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.227							

QC Flag Legend

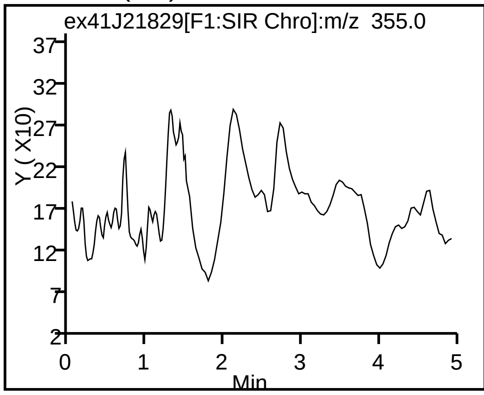
Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

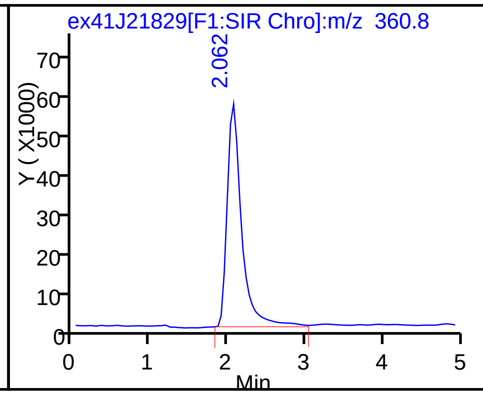
Report Date: 04-Nov-2011 07:37:32 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21829.d		
Injection Date:	04-Nov-2011 05:46:46	Limit Group:	LC - 8321A Expl
Client ID:	SD034	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	80
Operator ID:		Injection Vol:	40.00 ul

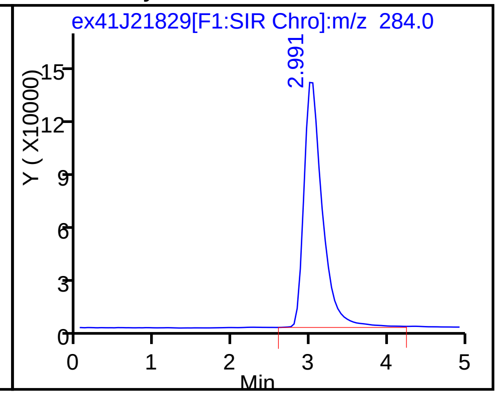
2 HMX (ND)



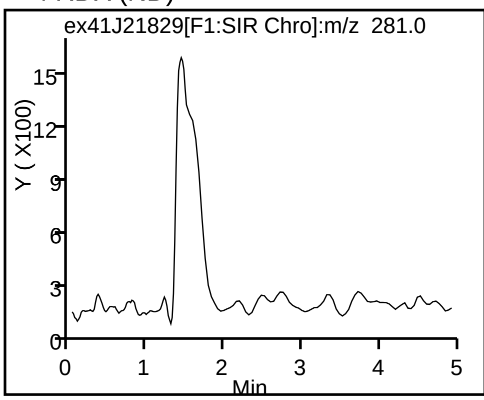
* 1 HMX-13C4



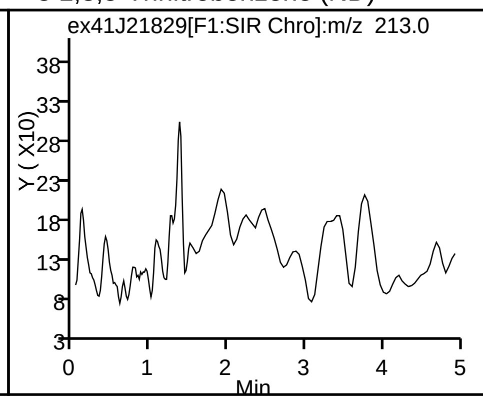
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



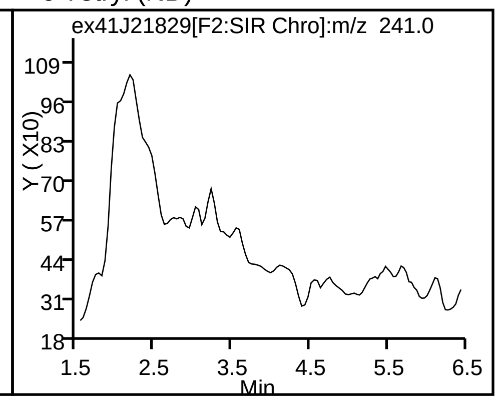
4 RDX (ND)



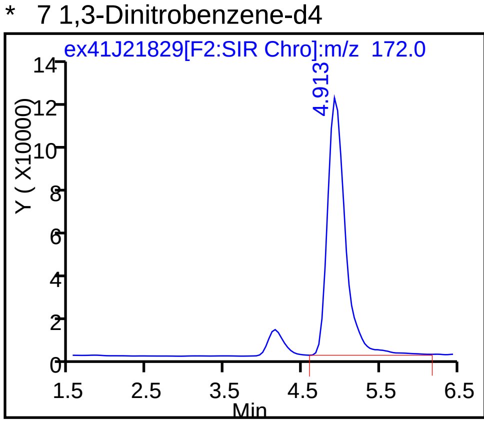
5 1,3,5-Trinitrobenzene (ND)



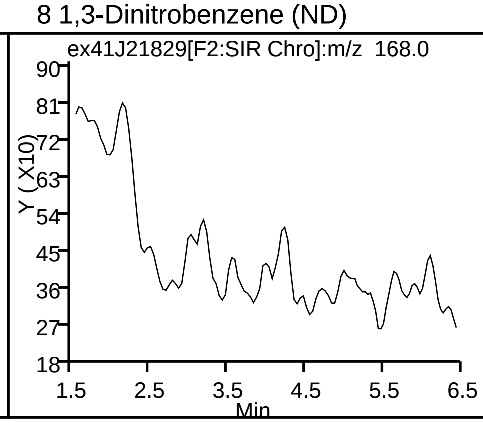
6 Tetryl (ND)



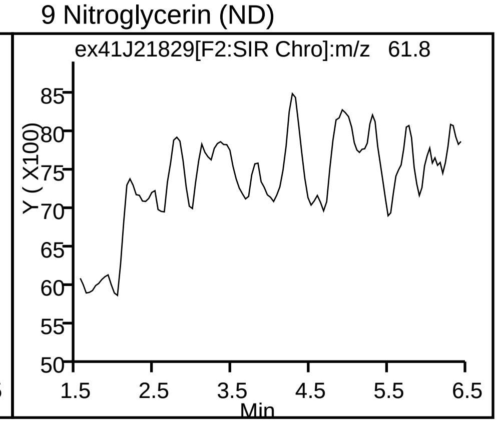
* 7 1,3-Dinitrobenzene-d4



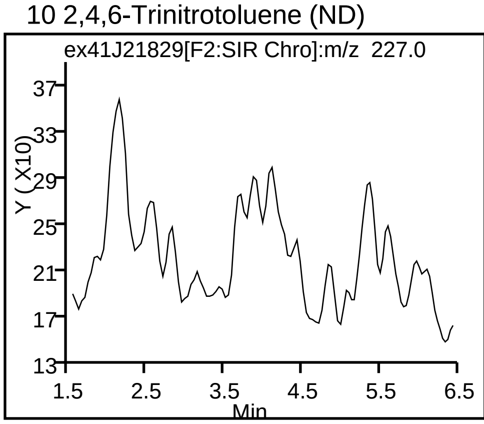
8 1,3-Dinitrobenzene (ND)



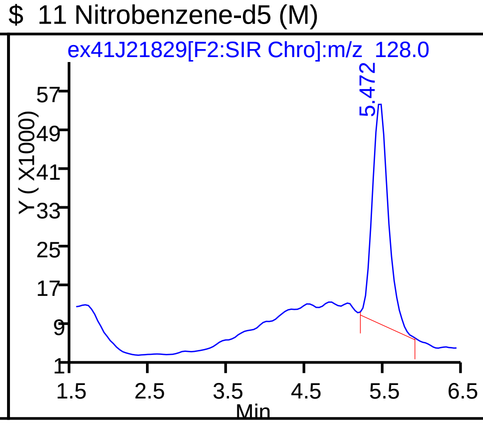
9 Nitroglycerin (ND)



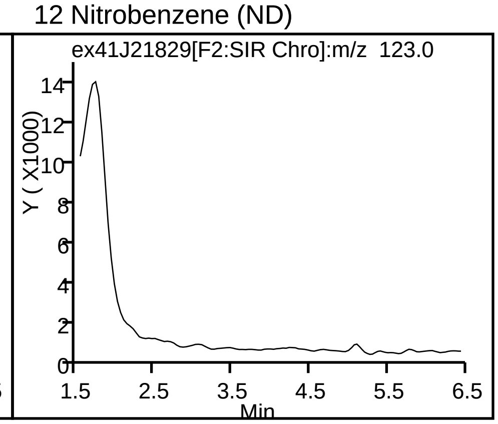
10 2,4,6-Trinitrotoluene (ND)



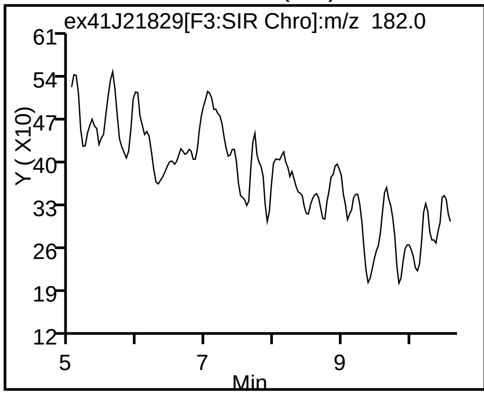
$ 11 Nitrobenzene-d5 (M)



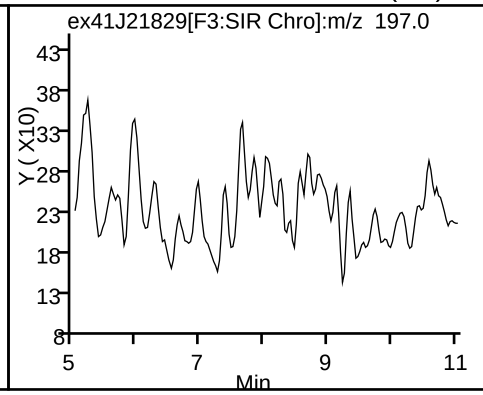
12 Nitrobenzene (ND)



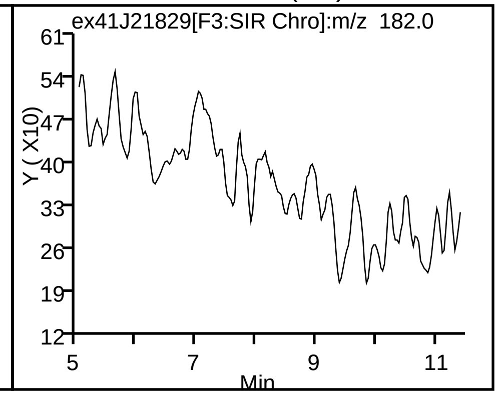
13 3,4-Dinitrotoluene (ND)



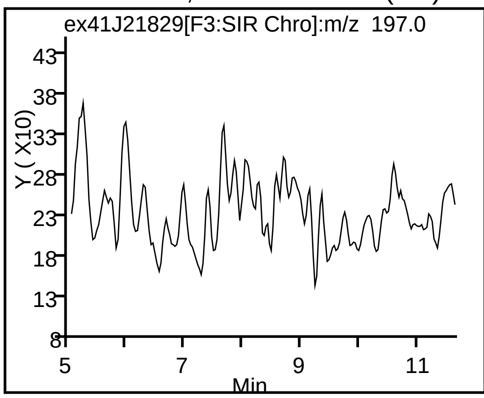
14 4-Amino-2,6-dinitrotoluene (ND)



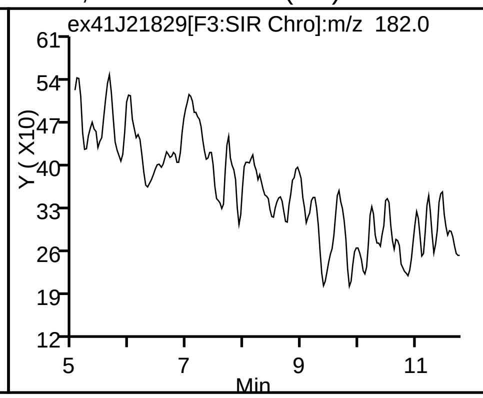
15 2,3-Dinitrotoluene (ND)



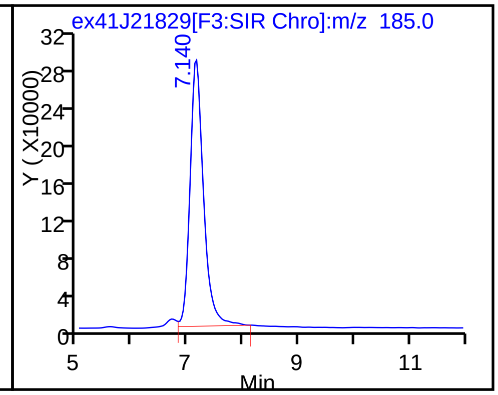
16 2-Amino-4,6-dinitrotoluene (ND)



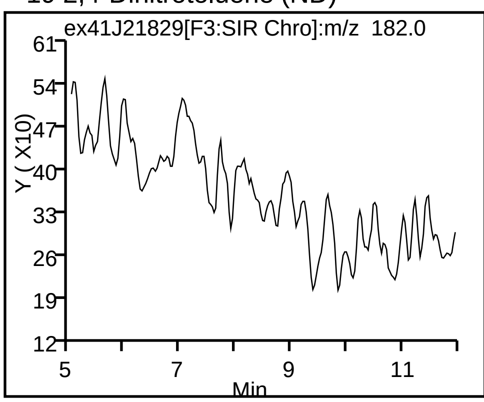
17 2,6-Dinitrotoluene (ND)



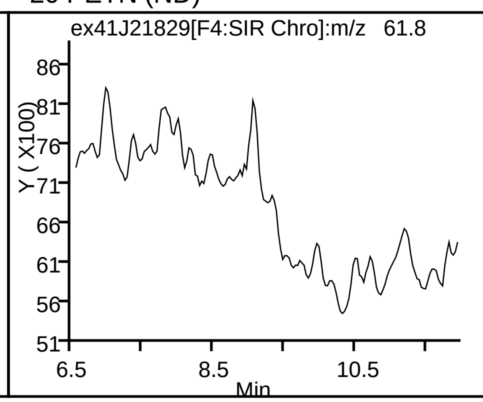
* 18 2,4-dinitrotoluene-d3



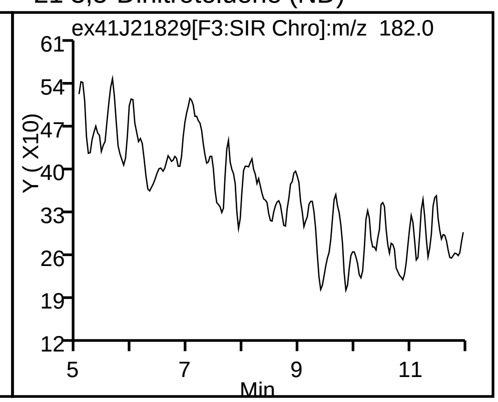
19 2,4-Dinitrotoluene (ND)



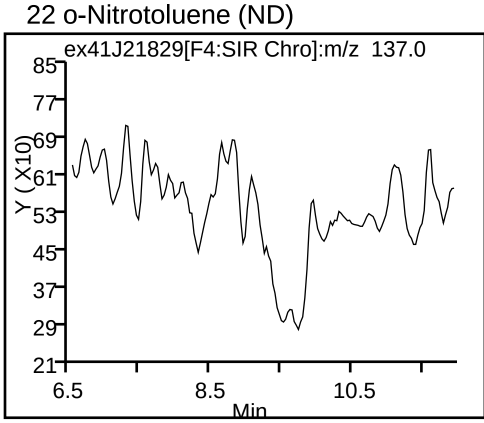
20 PETN (ND)



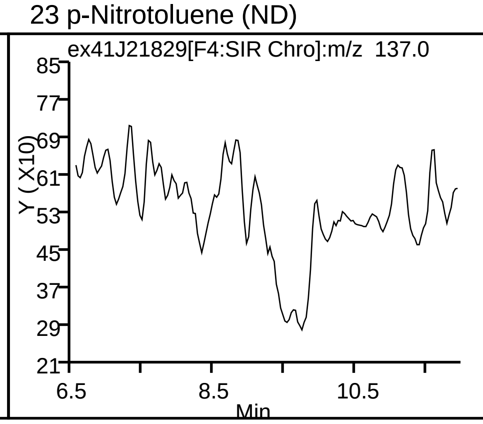
21 3,5-Dinitrotoluene (ND)



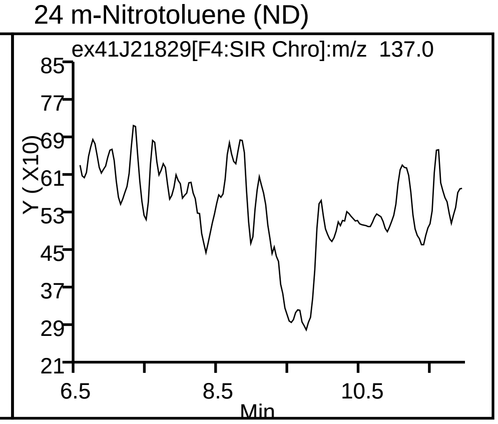
22 o-Nitrotoluene (ND)



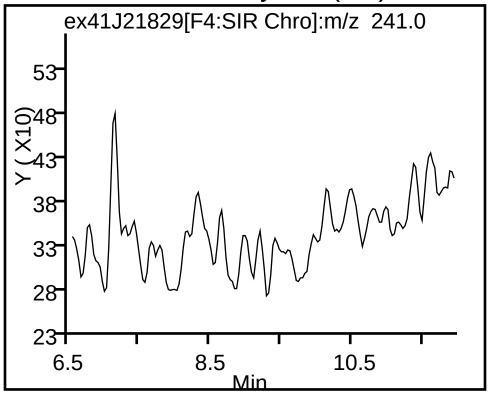
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



Report Date: 04-Nov-2011 07:37:32

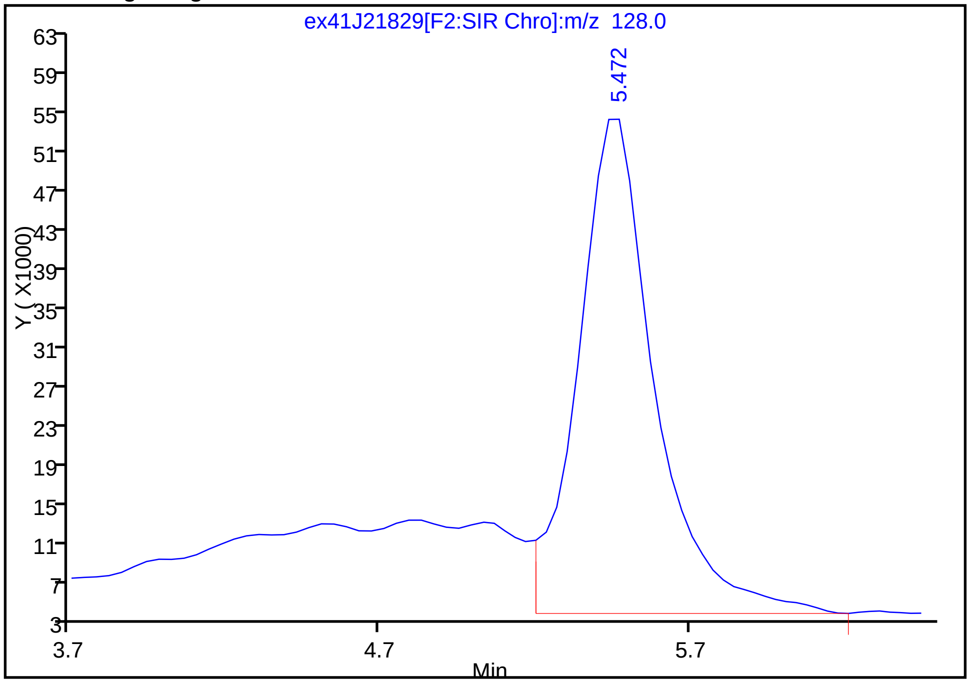
Chrom Revision: 1.2 13-Jul-2011 10:43:06
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21829.d		
Injection Date:	04-Nov-2011 05:46:46	Limit Group:	LC - 8321A Expl
Client ID:	SD034	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	80
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.44, Det: F2:SIR

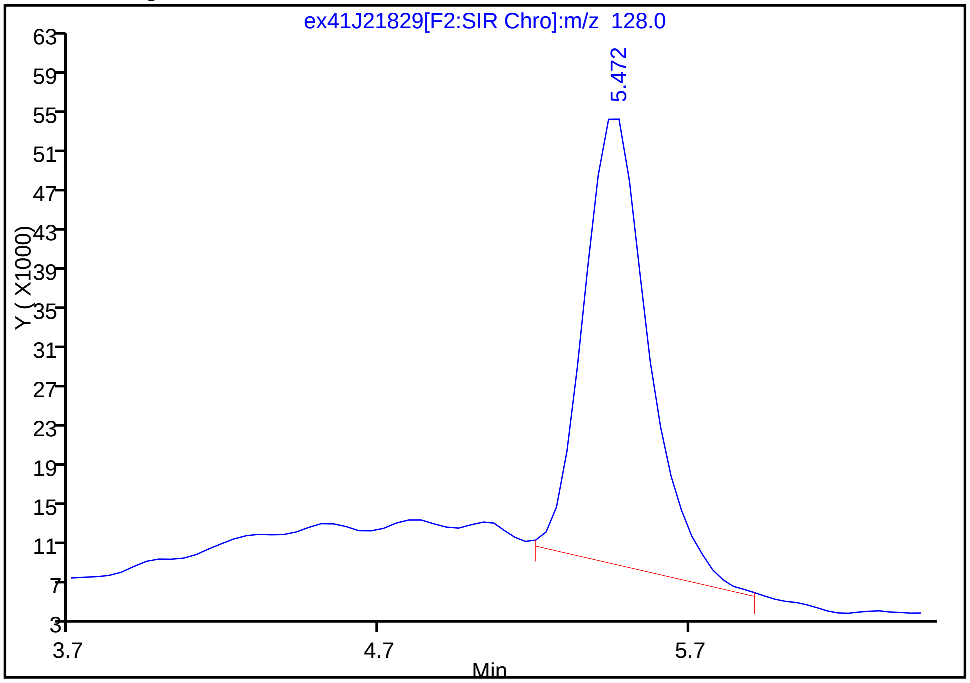
Processing Integration Results

RT: 5.47
Response: 868404
Amount: 104.3231



Manual Integration Results

RT: 5.47
Response: 664753
Amount: 79.723860



Reviewer: meyera, 04-Nov-2011 06:45:22
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP21 SD035 | Lab Sample ID: 280-21902-18

Matrix: Solid | Lab File ID: ex41J21830.d

Analysis Method: 8321B | Date Collected: 10/19/2011 10:55

Extraction Method: 8330B | Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.73(g) | Date Analyzed: 11/04/2011 06:00

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.093	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0098
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	79	M	68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21830.d		
Lims ID:	280-21902-A-18-C	Client ID:	SD035
Inject. Date:	04-Nov-2011 06:00:19	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-18-C 280-0002711-081		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	45
Lims Batch ID:	94612	Lims Sample ID:	81
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:27	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:45:47

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		673398	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2070611	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.954	-0.041		1615835	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										M
2	128.0	5.472	5.439	0.033	1.114	619441	77.6			M
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4081967	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										1
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

QC Flag Legend

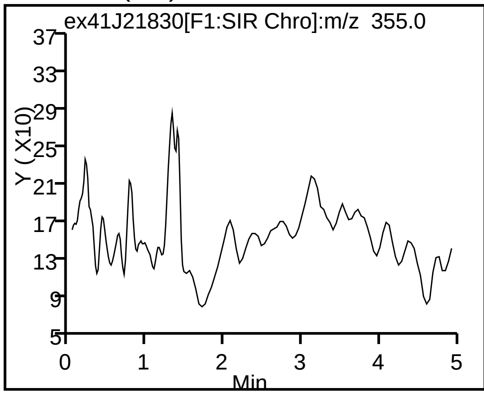
Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

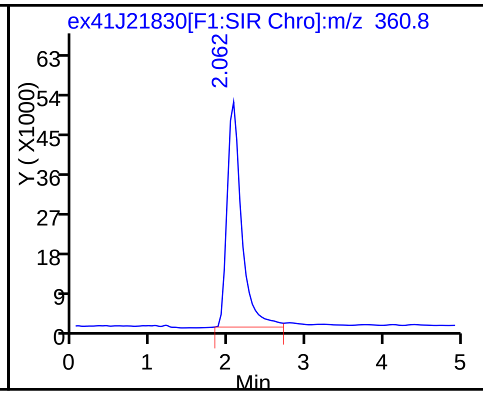
Report Date: 04-Nov-2011 07:37:34 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21830.d

Injection Date:	04-Nov-2011 06:00:19	Limit Group:	LC - 8321A Expl
Client ID:	SD035	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	81
Operator ID:		Injection Vol:	40.00 ul

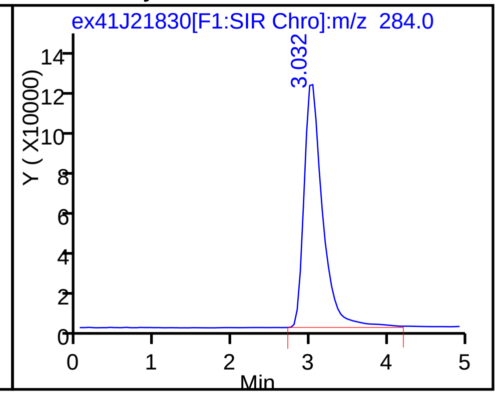
2 HMX (ND)



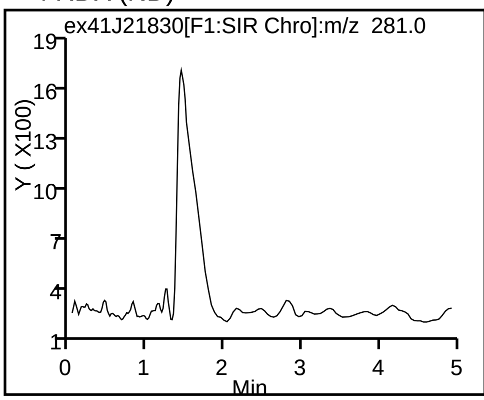
* 1 HMX-13C4



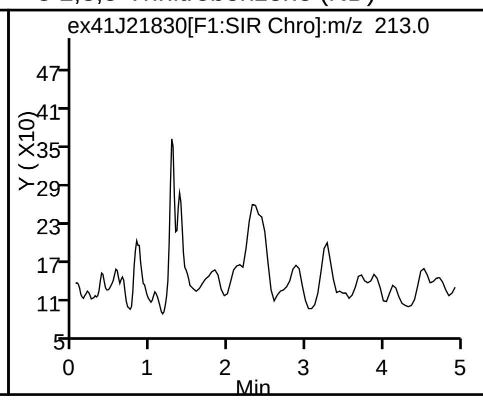
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



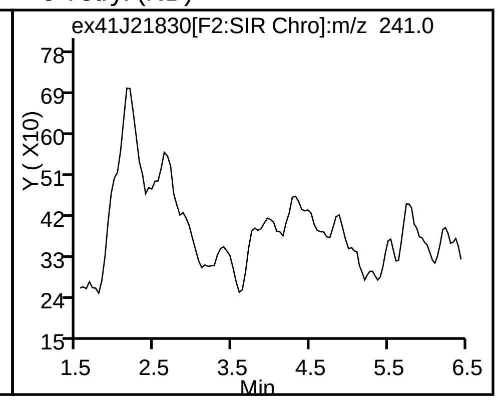
4 RDX (ND)



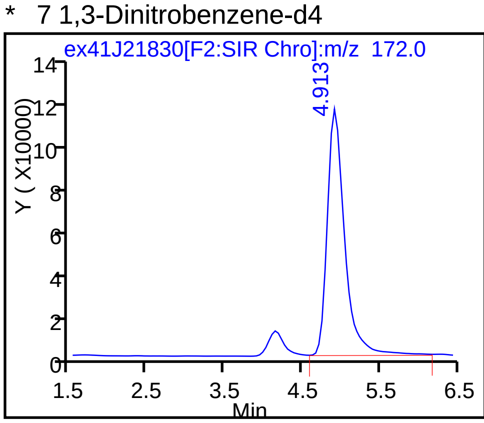
5 1,3,5-Trinitrobenzene (ND)



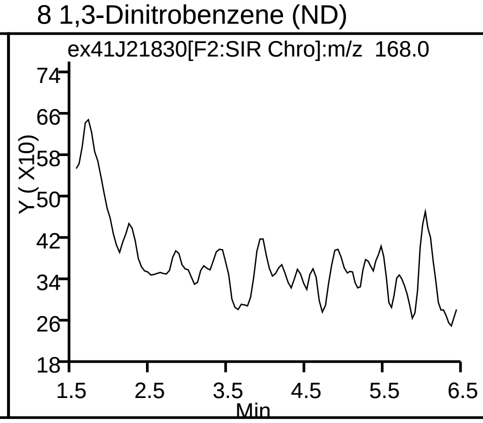
6 Tetryl (ND)



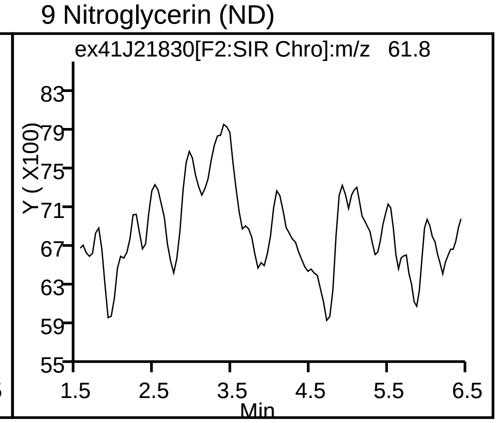
* 7 1,3-Dinitrobenzene-d4



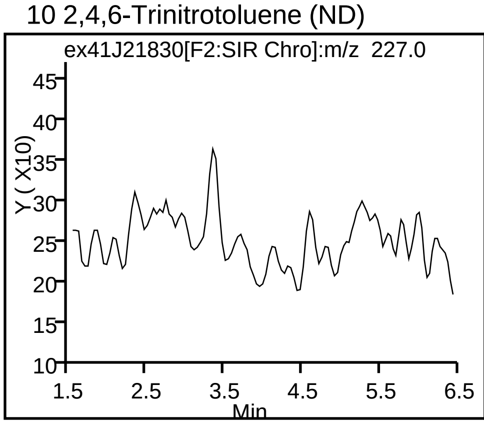
8 1,3-Dinitrobenzene (ND)



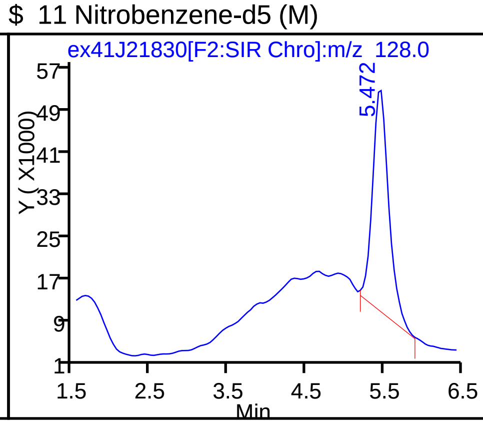
9 Nitroglycerin (ND)



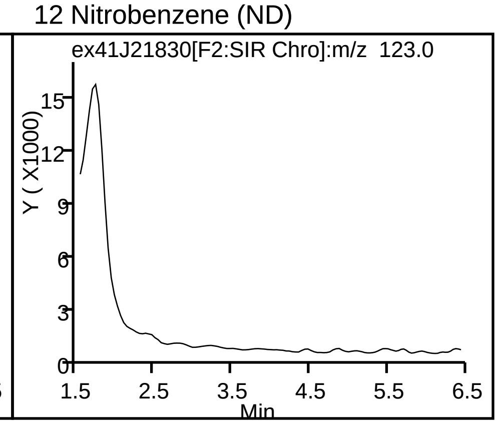
10 2,4,6-Trinitrotoluene (ND)



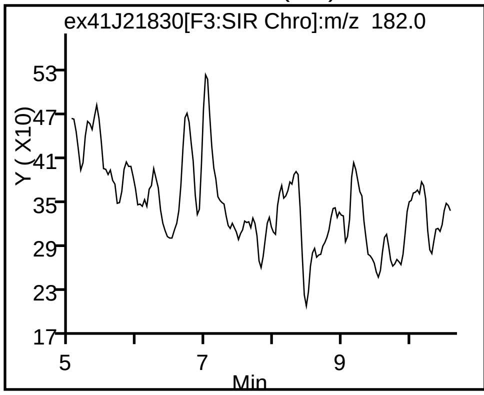
$ 11 Nitrobenzene-d5 (M)



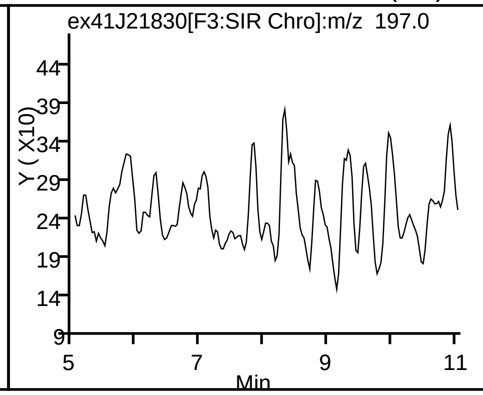
12 Nitrobenzene (ND)



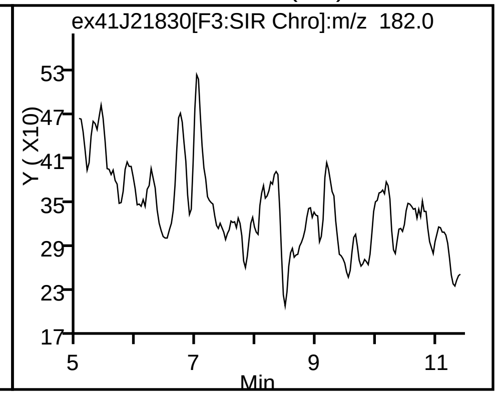
13 3,4-Dinitrotoluene (ND)



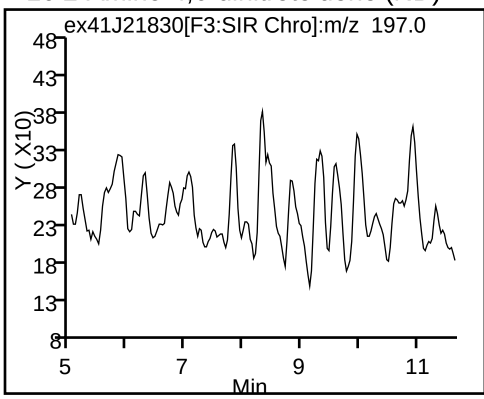
14 4-Amino-2,6-dinitrotoluene (ND)



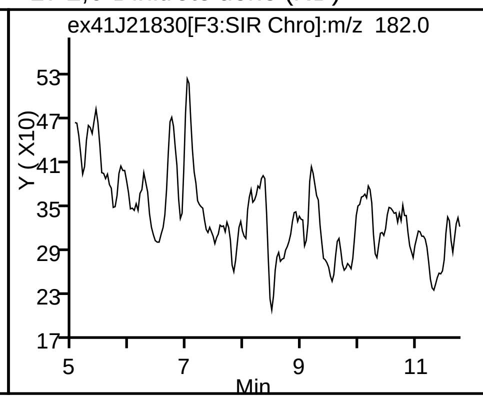
15 2,3-Dinitrotoluene (ND)



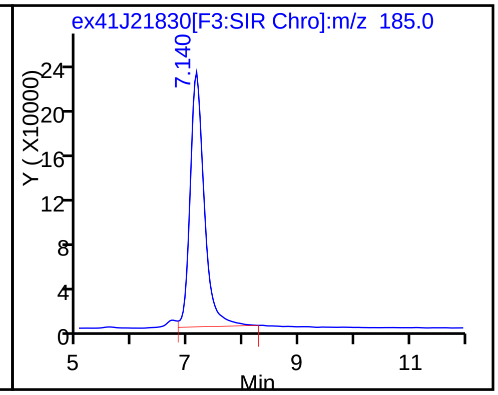
16 2-Amino-4,6-dinitrotoluene (ND)



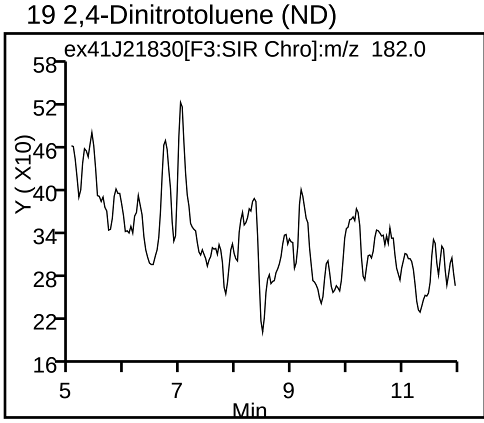
17 2,6-Dinitrotoluene (ND)



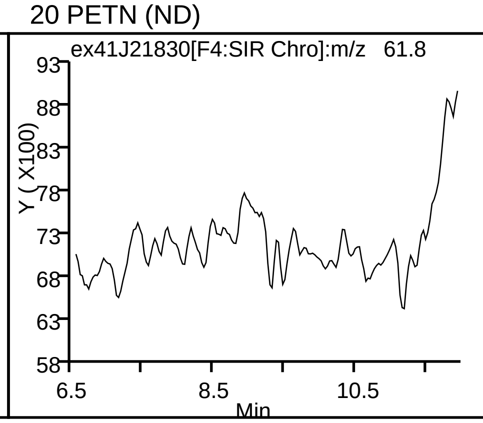
* 18 2,4-dinitrotoluene-d3



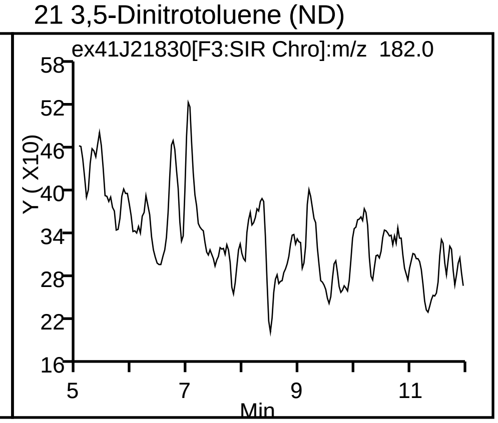
19 2,4-Dinitrotoluene (ND)



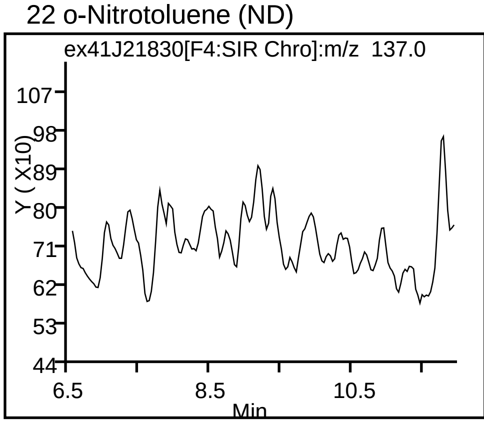
20 PETN (ND)



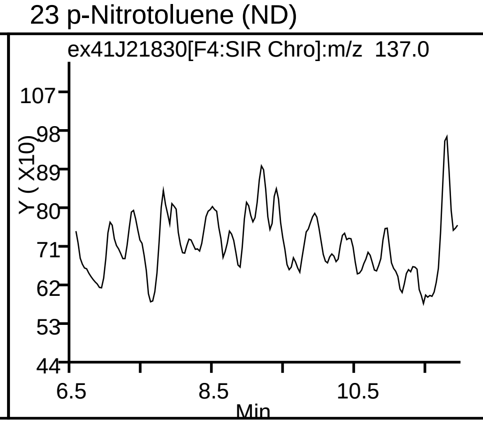
21 3,5-Dinitrotoluene (ND)



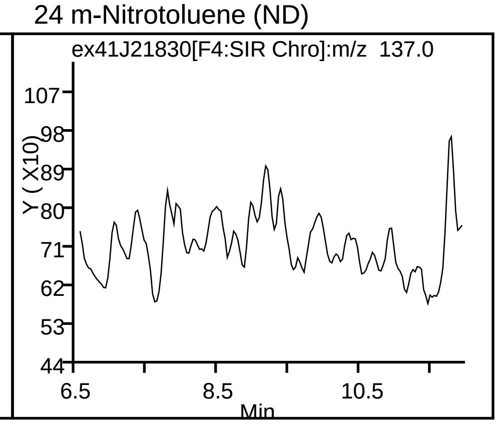
22 o-Nitrotoluene (ND)



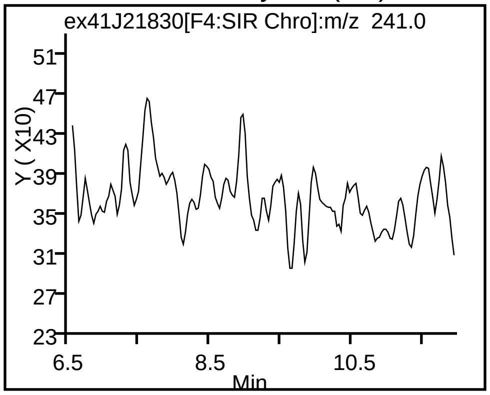
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



Report Date: 04-Nov-2011 07:37:34

Chrom Revision: 1.2 13-Jul-2011 10:43:06

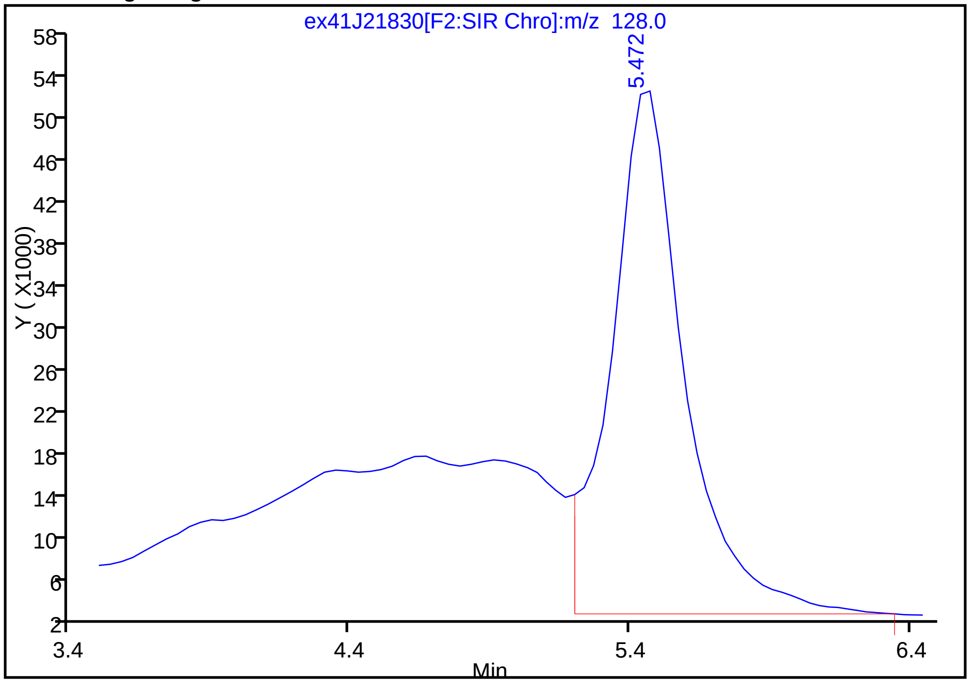
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21830.d		
Injection Date:	04-Nov-2011 06:00:19	Limit Group:	LC - 8321A Expl
Client ID:	SD035	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	81
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.44, Det: F2:SIR

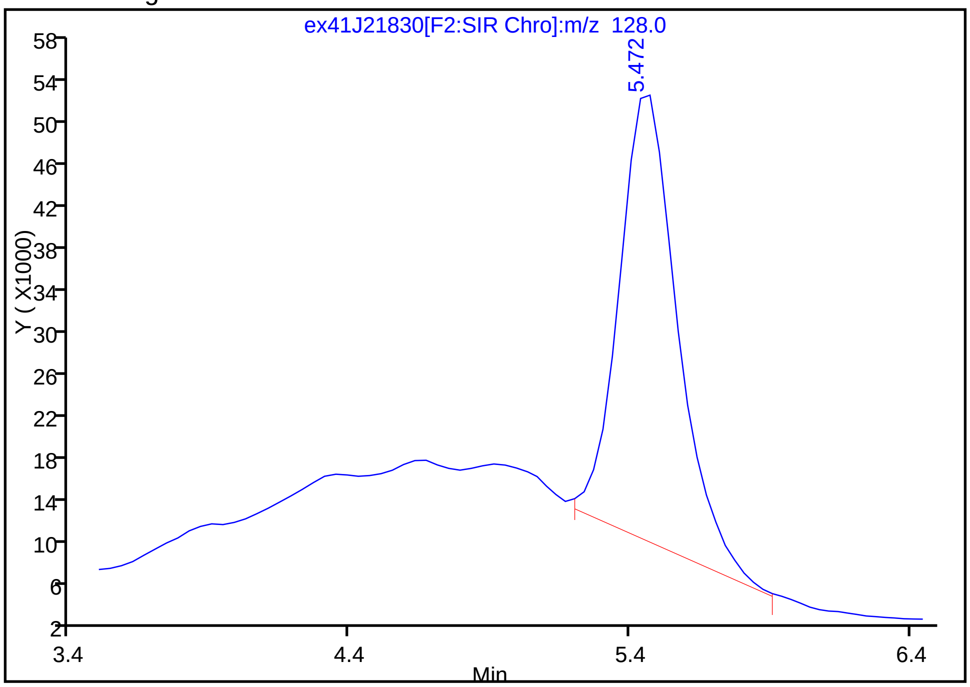
Processing Integration Results

RT: 5.47
Response: 912468
Amount: 114.5487



Manual Integration Results

RT: 5.47
Response: 619441
Amount: 77.579098



Reviewer: meyera, 04-Nov-2011 06:45:47

Audit Action: Manually Integrated

Audit Reason: Split Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP21 SD036   Lab Sample ID: 280-21902-19

Matrix: Solid   Lab File ID: ex41J21831.d

Analysis Method: 8321B   Date Collected: 10/19/2011 10:55

Extraction Method: 8330B   Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.03(g)   Date Analyzed: 11/04/2011 06:13

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0082
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	79	M	68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21831.d		
Lims ID:	280-21902-B-19-B	Client ID:	SD036
Inject. Date:	04-Nov-2011 06:13:54	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-19-B 280-0002711-082		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	46
Lims Batch ID:	94612	Lims Sample ID:	82
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:27	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:46:06

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		607556	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	2.991	0.000		1854902	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.954	-0.041		1484106	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										M
2	128.0	5.472	5.439	0.033	1.114	573517	78.2			M
12 Nitrobenzene										
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4025936	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

QC Flag Legend

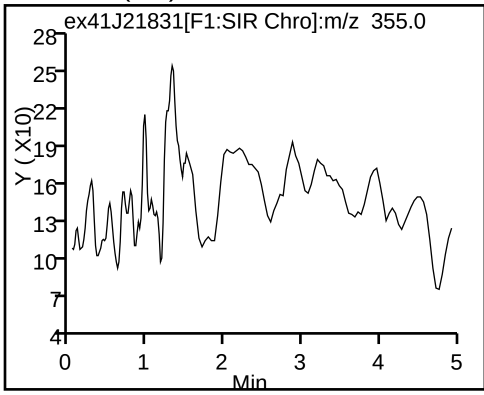
Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

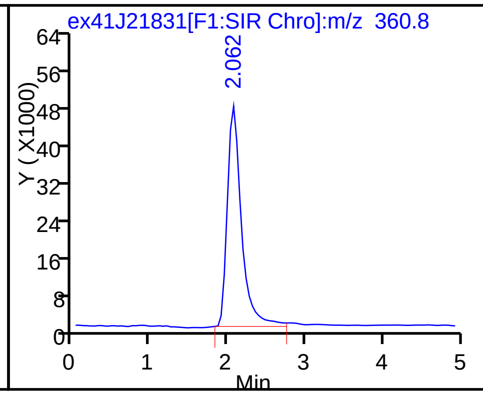
Report Date: 04-Nov-2011 07:37:34 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21831.d		
Injection Date:	04-Nov-2011 06:13:54	Limit Group:	LC - 8321A Expl
Client ID:	SD036	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	82
Operator ID:		Injection Vol:	40.00 ul

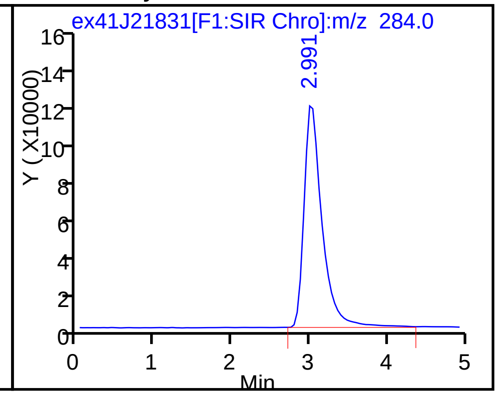
2 HMX (ND)



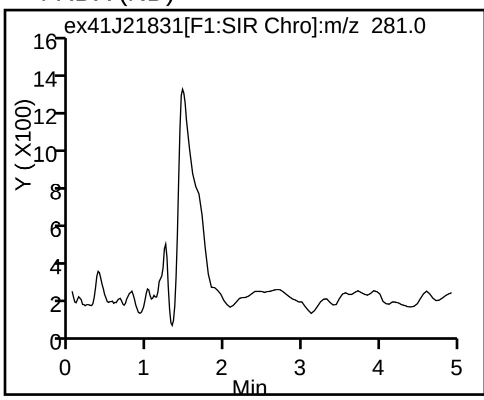
* 1 HMX-13C4



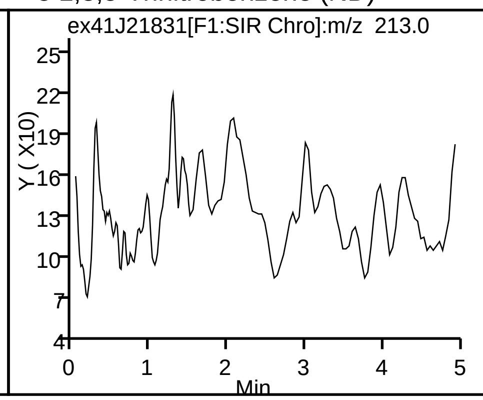
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



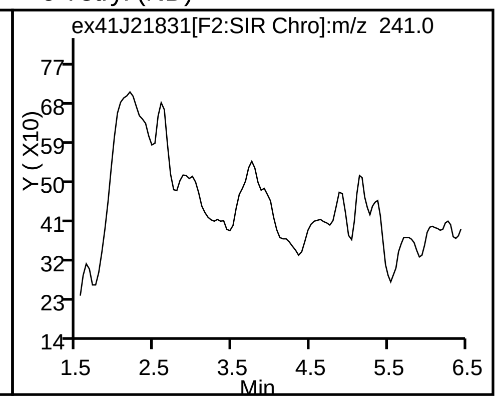
4 RDX (ND)



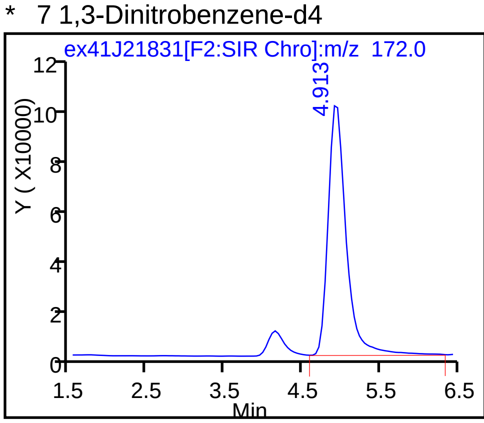
5 1,3,5-Trinitrobenzene (ND)



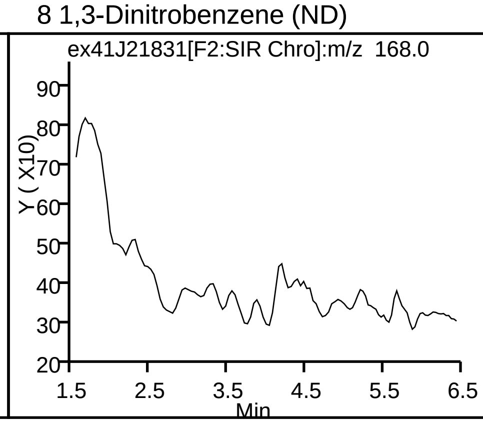
6 Tetryl (ND)



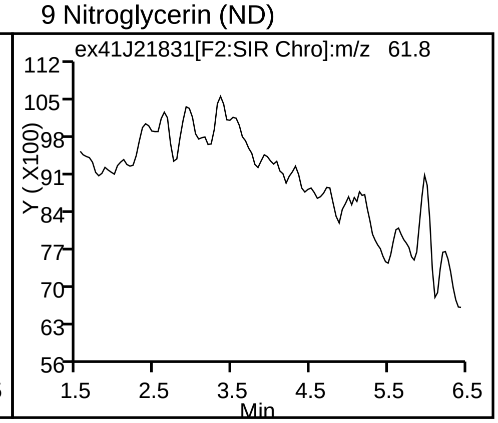
* 7 1,3-Dinitrobenzene-d4



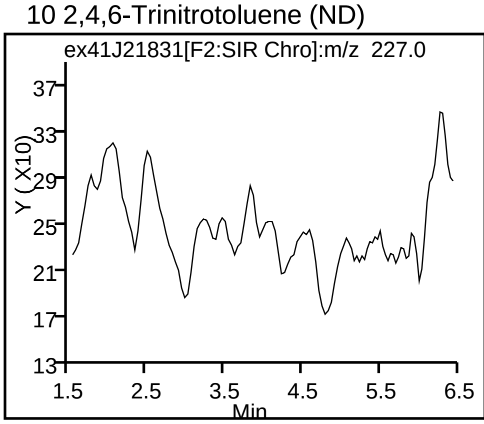
8 1,3-Dinitrobenzene (ND)



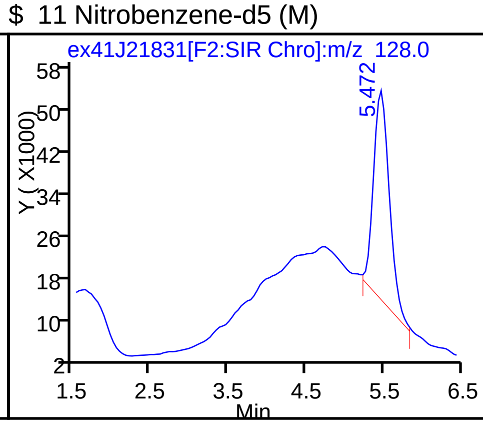
9 Nitroglycerin (ND)



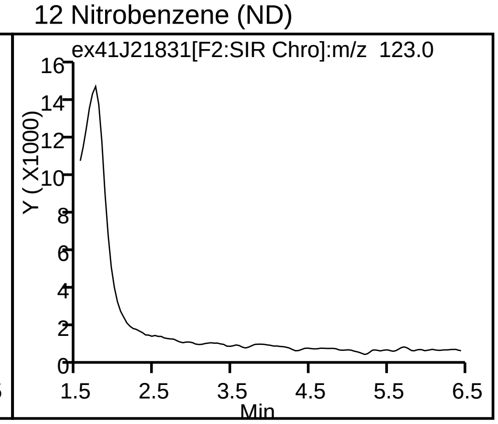
10 2,4,6-Trinitrotoluene (ND)



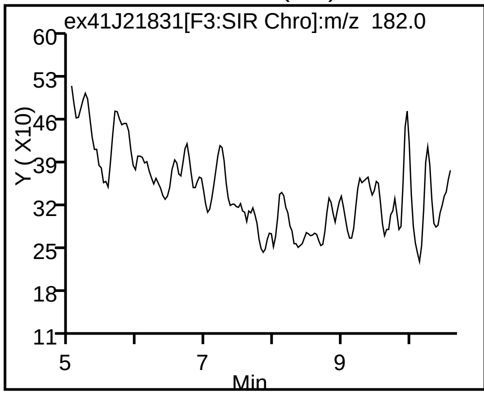
$ 11 Nitrobenzene-d5 (M)



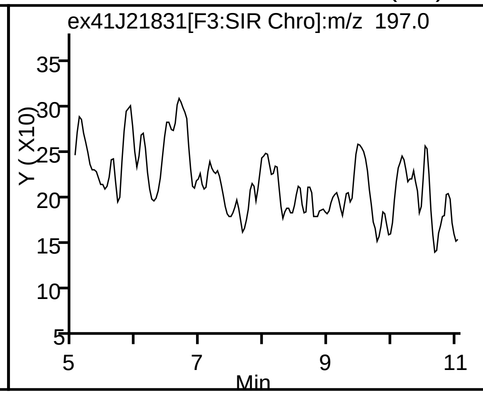
12 Nitrobenzene (ND)



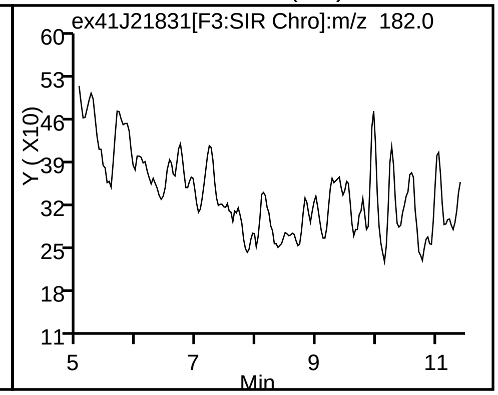
13 3,4-Dinitrotoluene (ND)



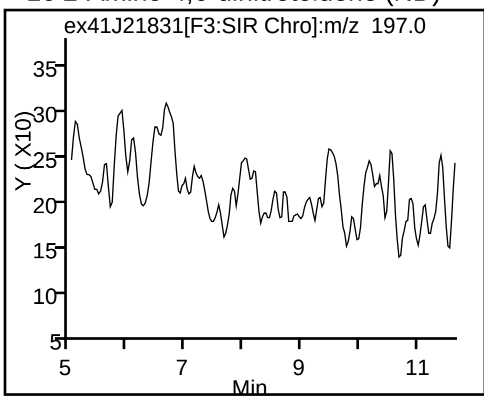
14 4-Amino-2,6-dinitrotoluene (ND)



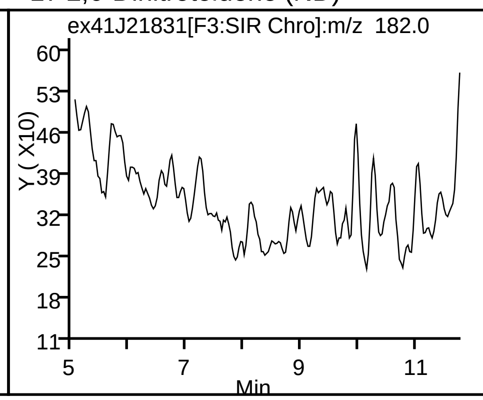
15 2,3-Dinitrotoluene (ND)



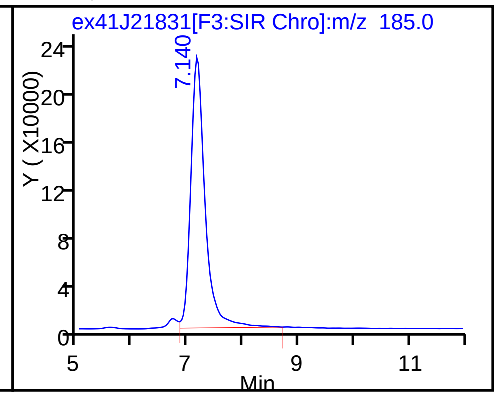
16 2-Amino-4,6-dinitrotoluene (ND)



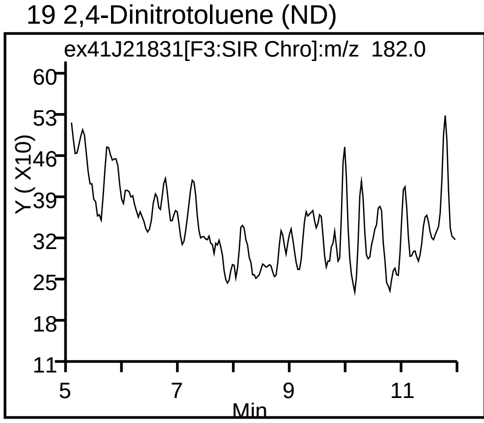
17 2,6-Dinitrotoluene (ND)



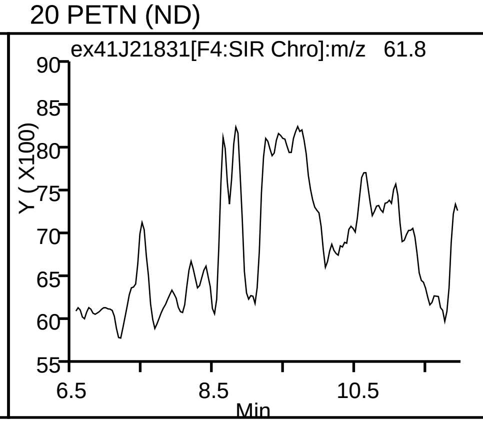
* 18 2,4-dinitrotoluene-d3



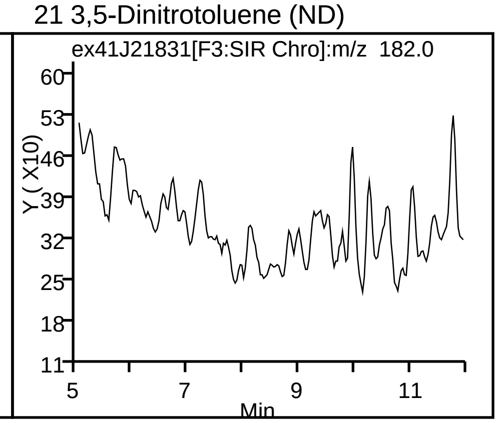
19 2,4-Dinitrotoluene (ND)



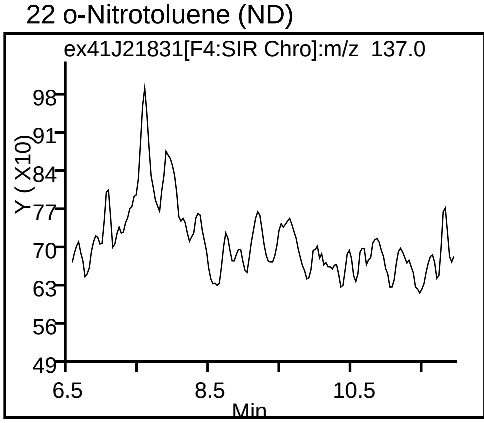
20 PETN (ND)



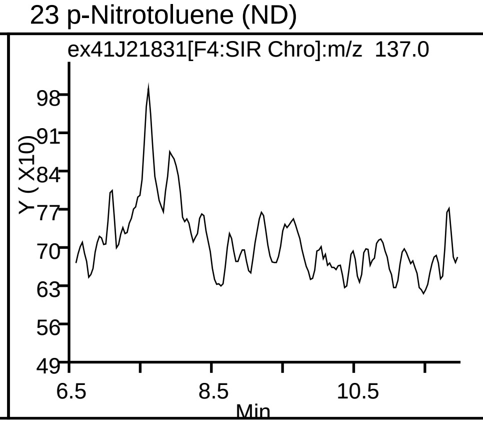
21 3,5-Dinitrotoluene (ND)



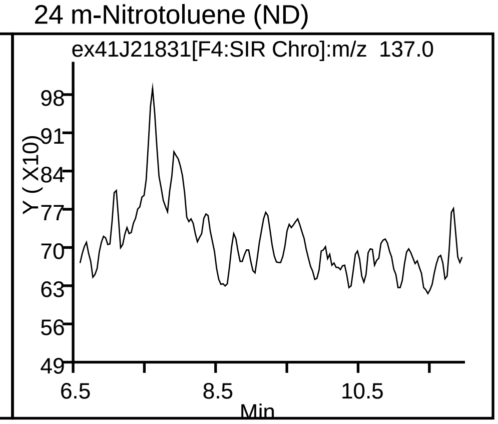
22 o-Nitrotoluene (ND)



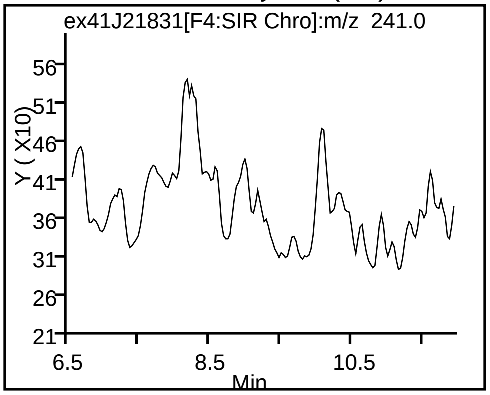
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



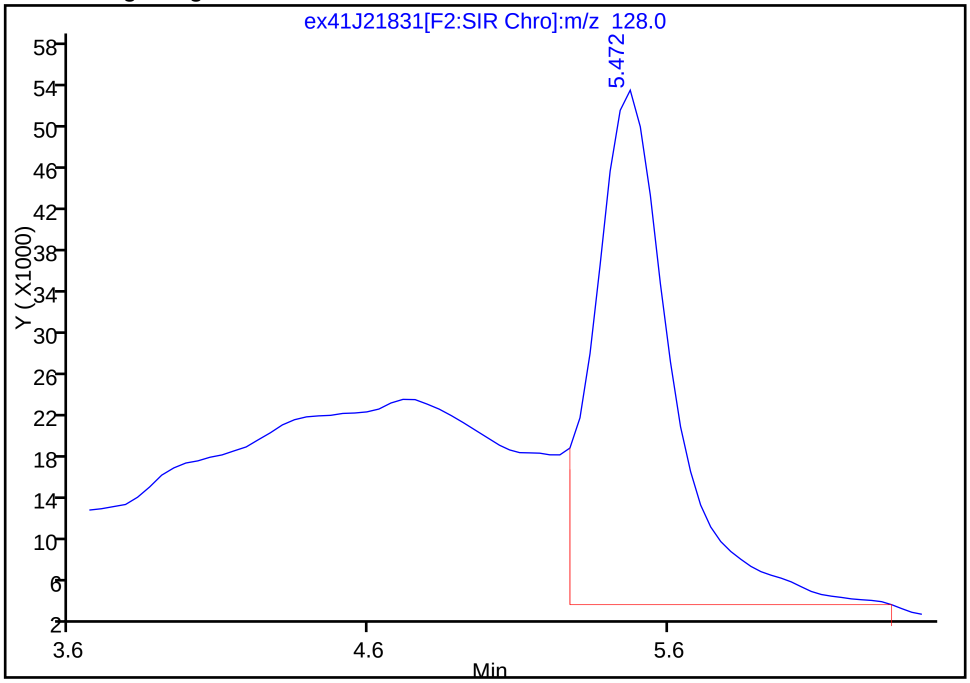
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21831.d		
Injection Date:	04-Nov-2011 06:13:54	Limit Group:	LC - 8321A Expl
Client ID:	SD036	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	82
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.44, Det: F2:SIR

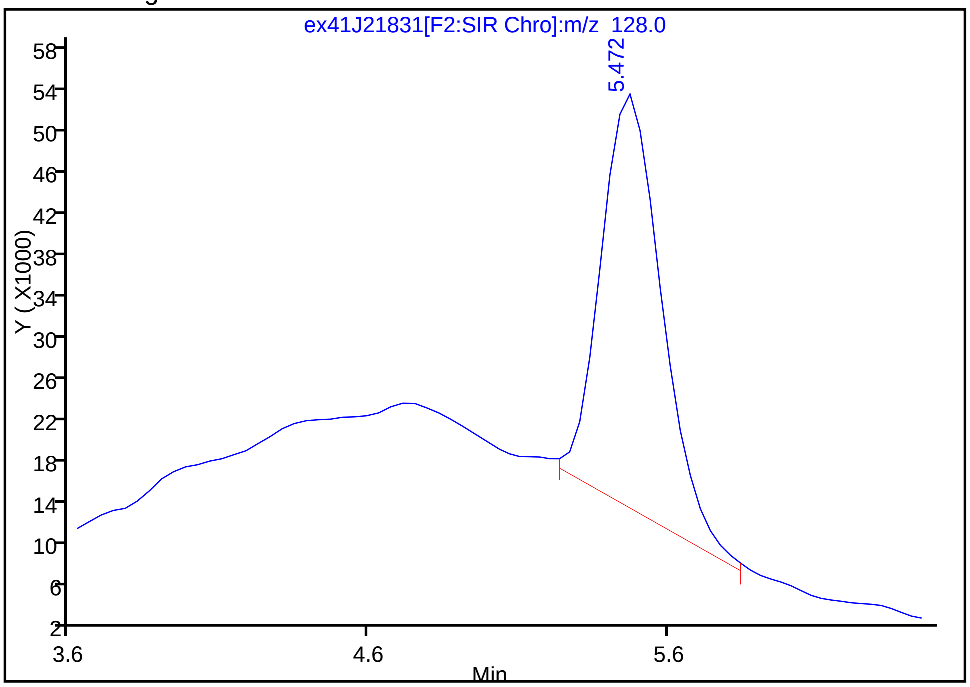
Processing Integration Results

RT: 5.47
Response: 919247
Amount: 125.6981



Manual Integration Results

RT: 5.47
Response: 573517
Amount: 78.207559



Reviewer: meyera, 04-Nov-2011 06:46:06
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver　　Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP01 SB128　　Lab Sample ID: 280-21902-20

Matrix: Solid　　Lab File ID: ex41J21832.d

Analysis Method: 8321B　　Date Collected: 10/19/2011 13:30

Extraction Method: 8330B　　Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.04(g)　　Date Analyzed: 11/04/2011 06:28

Con. Extract Vol.: 40(mL)　　Dilution Factor: 1

Injection Volume: 40(uL)　　GC Column: IonPac　　ID: 2(mm)

% Moisture:　　GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612　　Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0082
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21832.d		
Lims ID:	280-21902-B-20-B	Client ID:	SB128
Inject. Date:	04-Nov-2011 06:28:16	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-20-B 280-0002711-083		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	47
Lims Batch ID:	94612	Lims Sample ID:	83
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:27	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 07:13:32

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		707075	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	2.991	0.000		1858914	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1544389	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.439	0.033	1.105	625539	82.0			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4702503	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										
4	61.8		7.646							
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

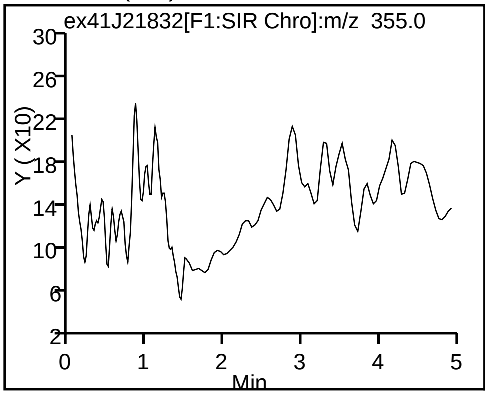
QC Flag Legend

Processing Flags
1 - Missing Peaks

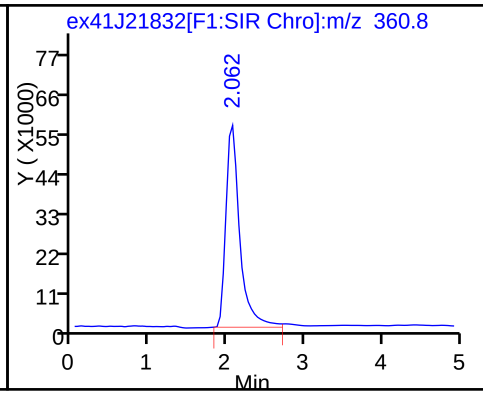
Report Date: 04-Nov-2011 07:37:35   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21832.d

Injection Date:	04-Nov-2011 06:28:16	Limit Group:	LC - 8321A Expl
Client ID:	SB128	Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	83
Operator ID:		Injection Vol:	40.00 ul

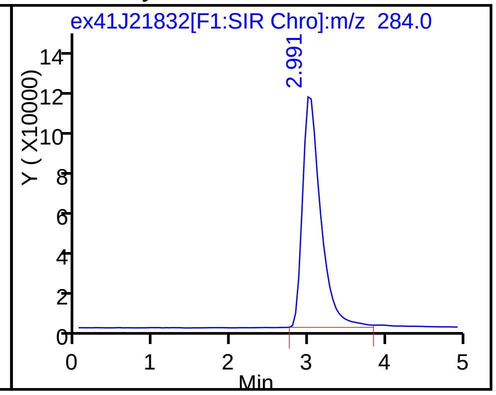
2 HMX (ND)



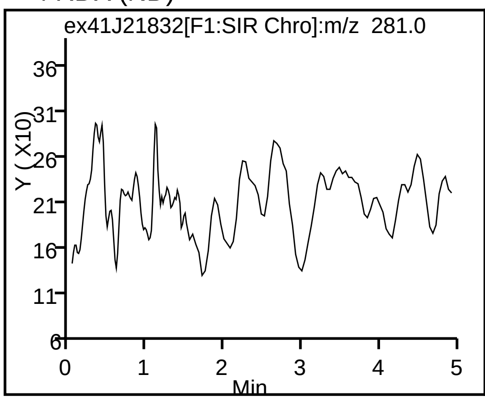
* 1 HMX-13C4



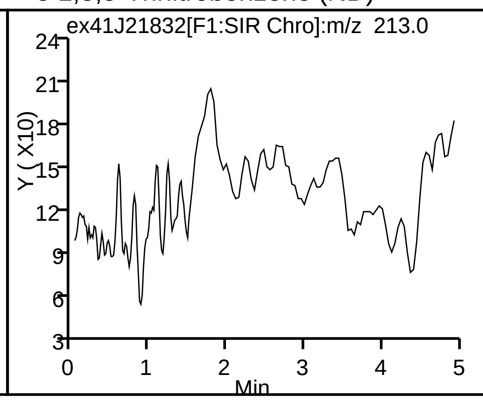
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



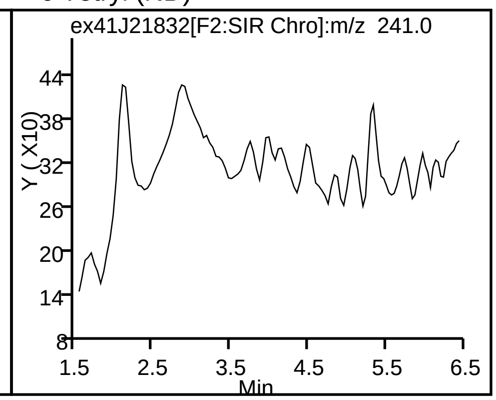
4 RDX (ND)



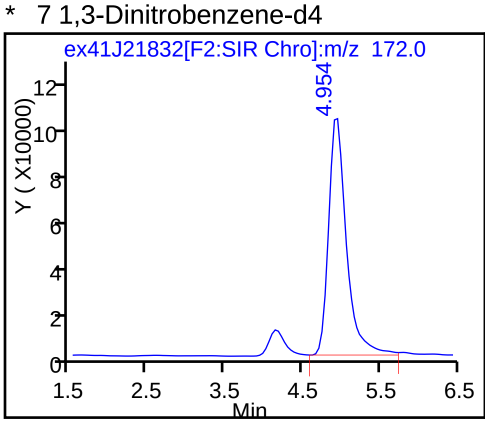
5 1,3,5-Trinitrobenzene (ND)



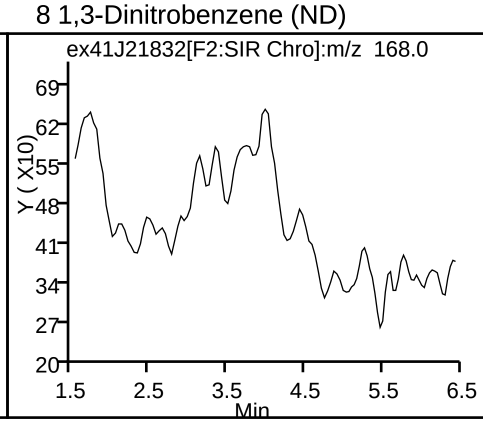
6 Tetryl (ND)



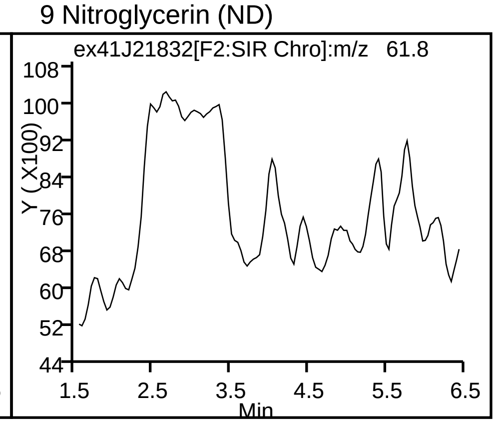
* 7 1,3-Dinitrobenzene-d4



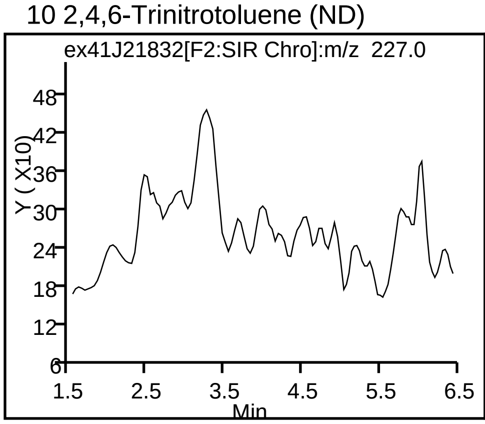
8 1,3-Dinitrobenzene (ND)



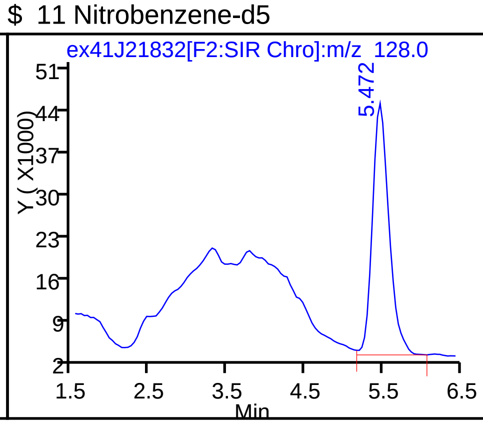
9 Nitroglycerin (ND)



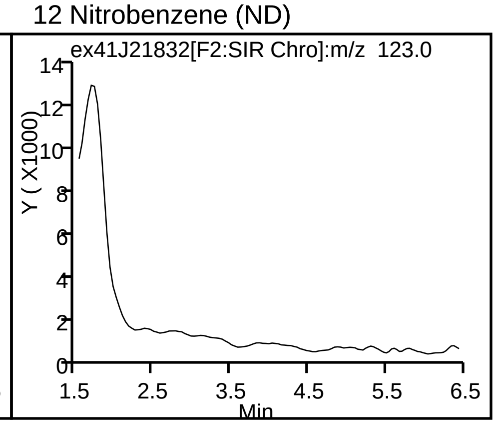
10 2,4,6-Trinitrotoluene (ND)



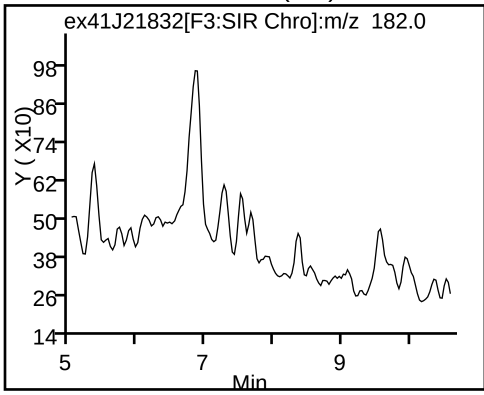
$ 11 Nitrobenzene-d5



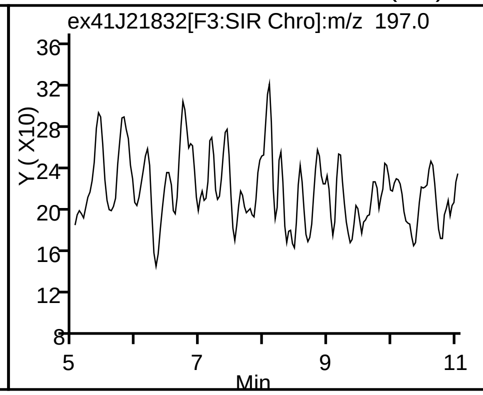
12 Nitrobenzene (ND)



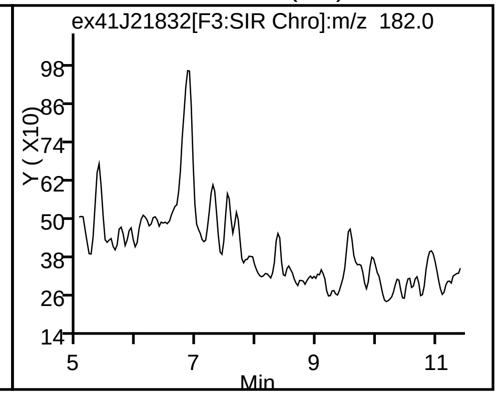
13 3,4-Dinitrotoluene (ND)



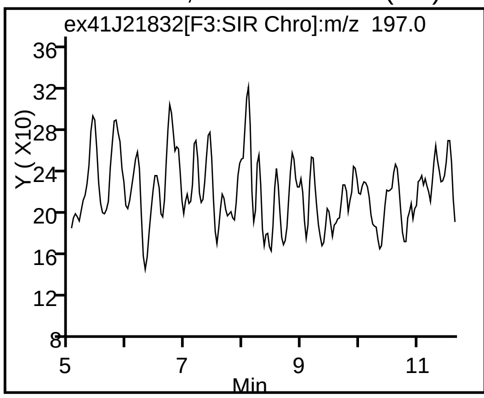
14 4-Amino-2,6-dinitrotoluene (ND)



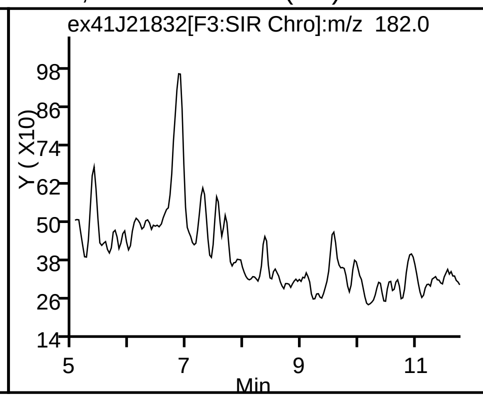
15 2,3-Dinitrotoluene (ND)



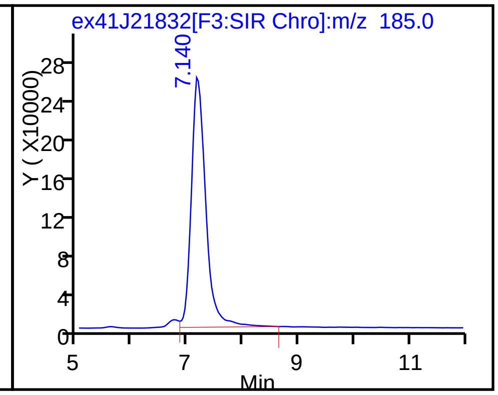
16 2-Amino-4,6-dinitrotoluene (ND)



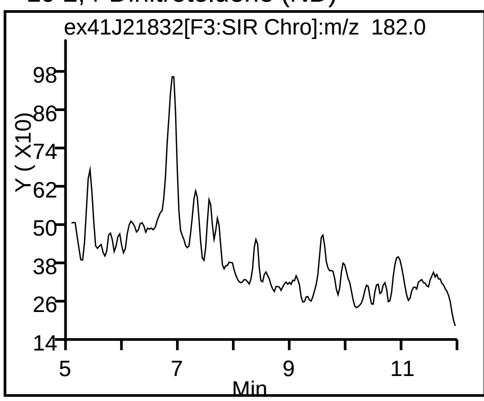
17 2,6-Dinitrotoluene (ND)



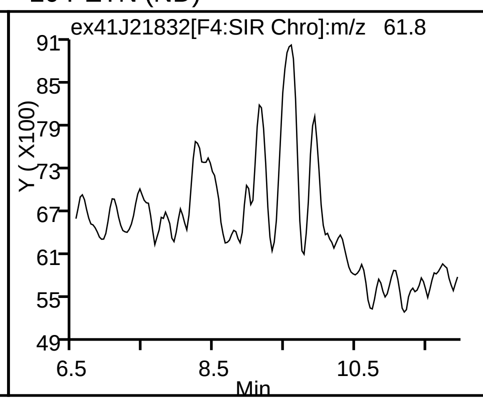
* 18 2,4-dinitrotoluene-d3



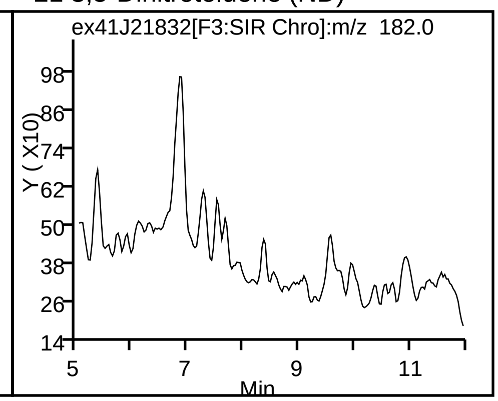
19 2,4-Dinitrotoluene (ND)



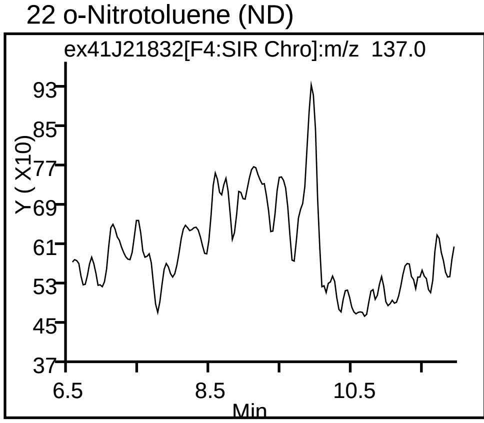
20 PETN (ND)



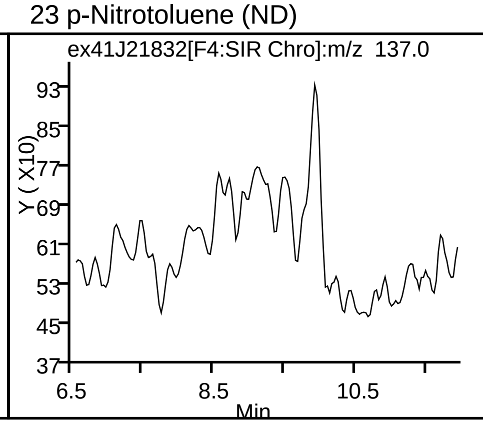
21 3,5-Dinitrotoluene (ND)



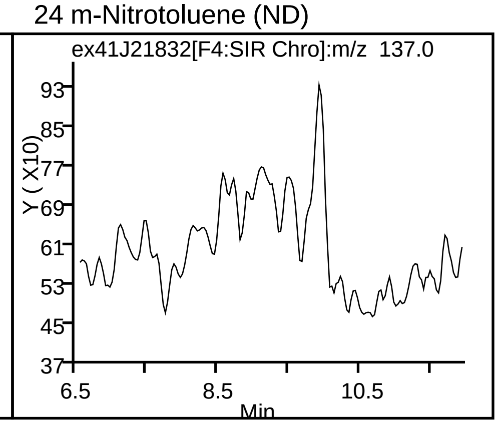
22 o-Nitrotoluene (ND)



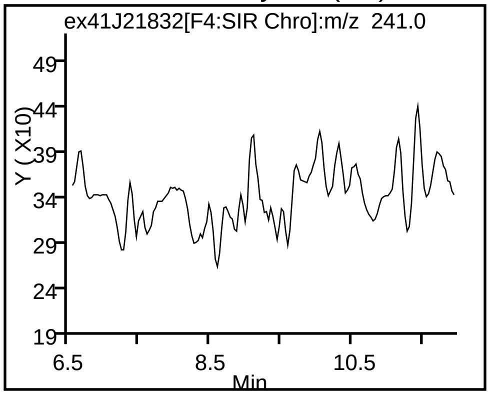
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP01 SB129   Lab Sample ID: 280-21902-21

Matrix: Solid   Lab File ID: ex41J21753.d

Analysis Method: 8321B   Date Collected: 10/19/2011 13:32

Extraction Method: 8330B   Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.54(g)   Date Analyzed: 11/03/2011 12:30

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21753.d		
Lims ID:	280-21902-A-21-E	Client ID:	SB129
Inject. Date:	03-Nov-2011 12:30:18	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-21-E 280-0002711-004		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	87
Lims Batch ID:	94610	Lims Sample ID:	4
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	03-Nov-2011 14:16:45

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		642967	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		1991661	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1371153	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.954							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.337							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.105	544171	80.3			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.391							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.594							
17 2,6-Dinitrotoluene										1
3	182.0		6.745							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.110	0.030		4390127	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.170							
20 PETN										1
4	61.8		7.616							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										1
4	137.0		8.132							
23 p-Nitrotoluene										1
4	137.0		8.648							
24 m-Nitrotoluene										1
4	137.0		9.316							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.167							

QC Flag Legend

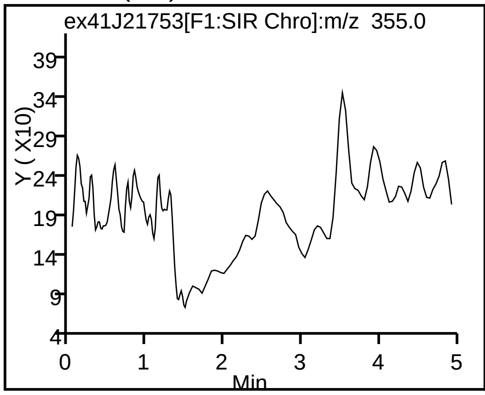
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:46:30　　Chrom Revision: 1.2 13-Jul-2011 10:43:06

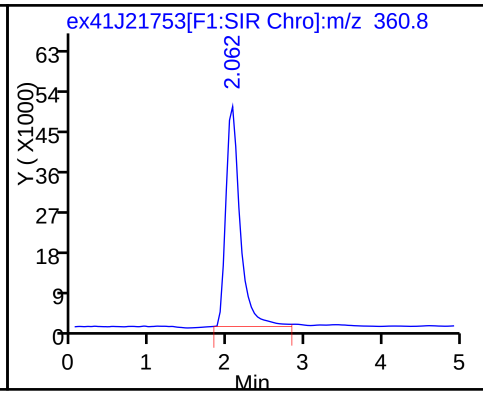
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21753.d

Injection Date:	03-Nov-2011 12:30:18	Limit Group:	LC - 8321A Expl
Client ID:	SB129	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	4
Operator ID:		Injection Vol:	40.00 ul

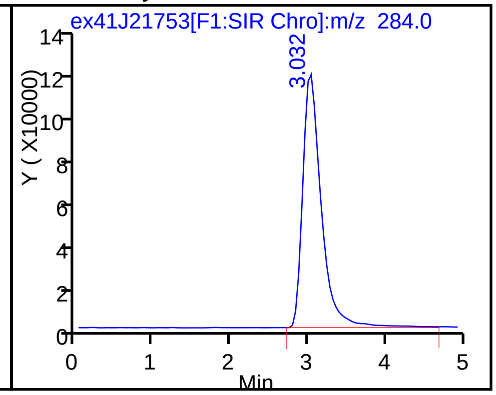
2 HMX (ND)



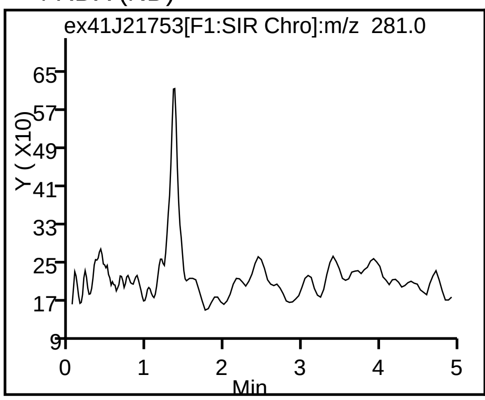
* 1 HMX-13C4



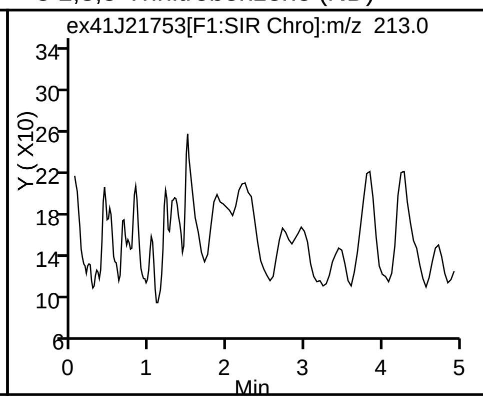
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



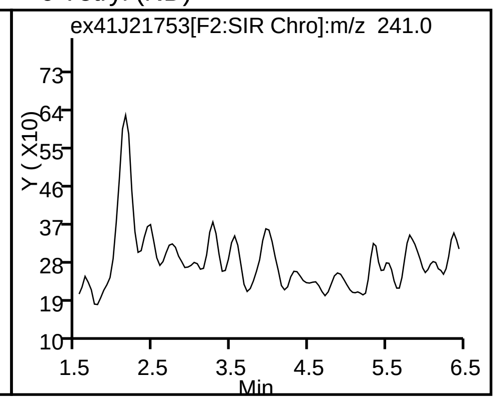
4 RDX (ND)



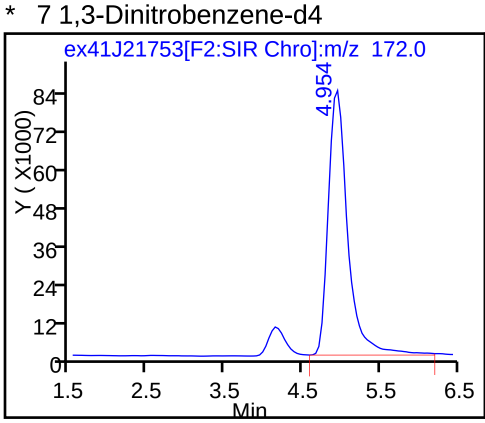
5 1,3,5-Trinitrobenzene (ND)



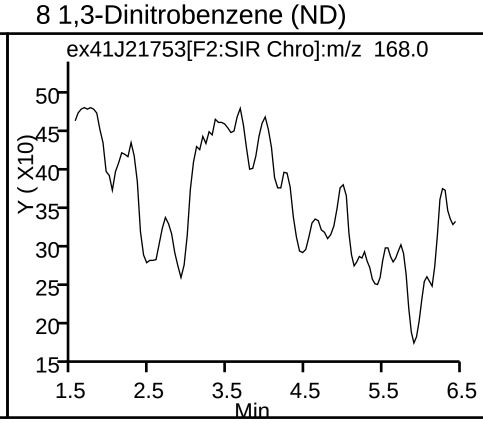
6 Tetryl (ND)



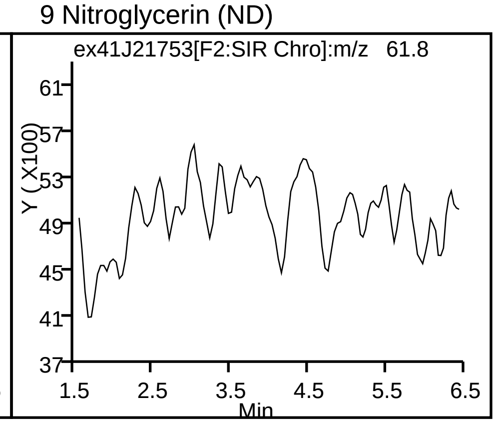
* 7 1,3-Dinitrobenzene-d4



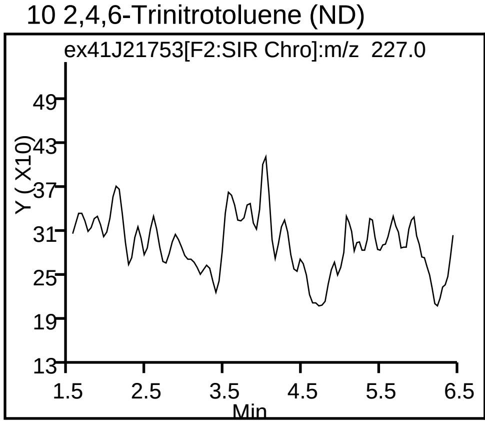
8 1,3-Dinitrobenzene (ND)



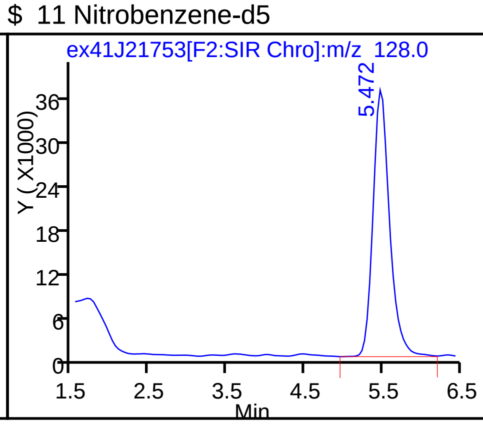
9 Nitroglycerin (ND)



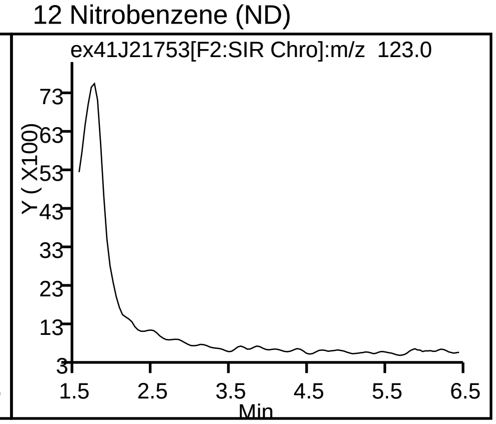
10 2,4,6-Trinitrotoluene (ND)



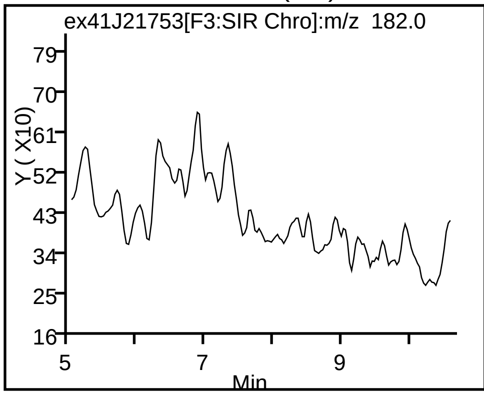
$ 11 Nitrobenzene-d5



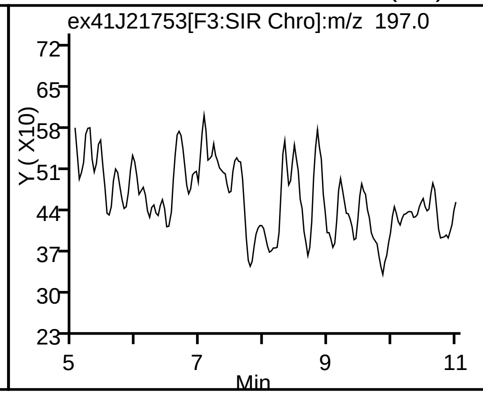
12 Nitrobenzene (ND)



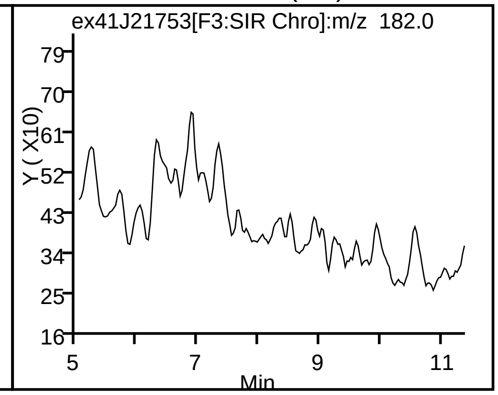
13 3,4-Dinitrotoluene (ND)



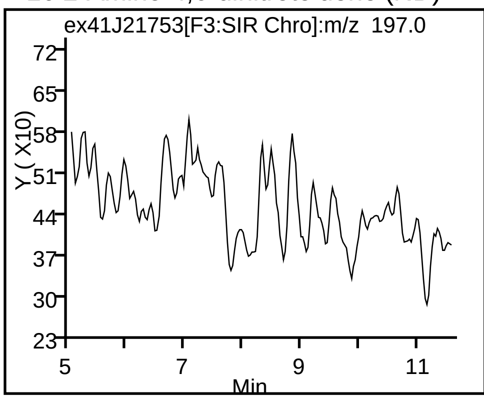
14 4-Amino-2,6-dinitrotoluene (ND)



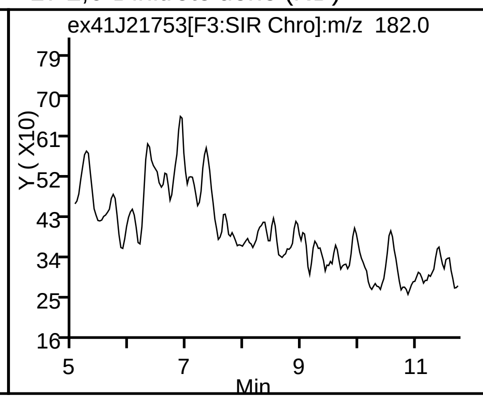
15 2,3-Dinitrotoluene (ND)



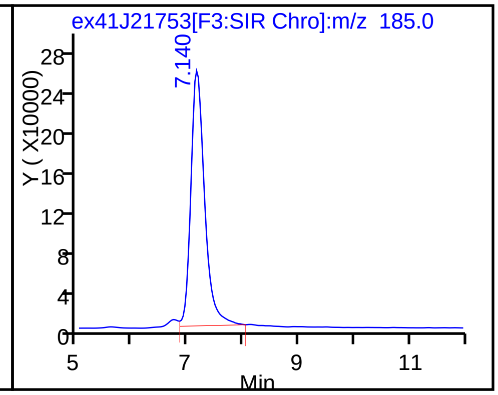
16 2-Amino-4,6-dinitrotoluene (ND)



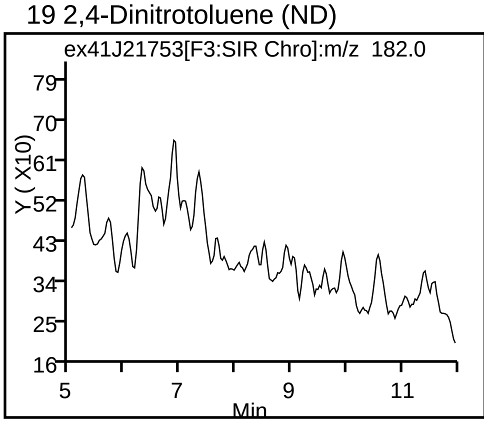
17 2,6-Dinitrotoluene (ND)



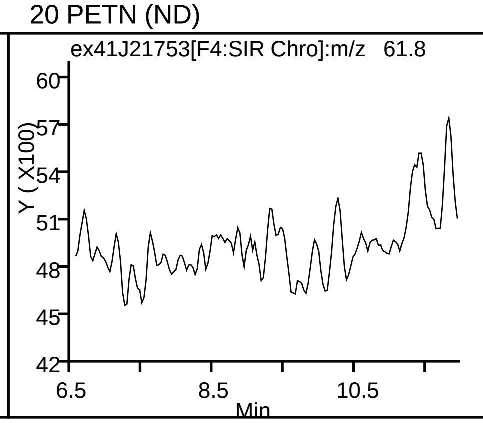
* 18 2,4-dinitrotoluene-d3



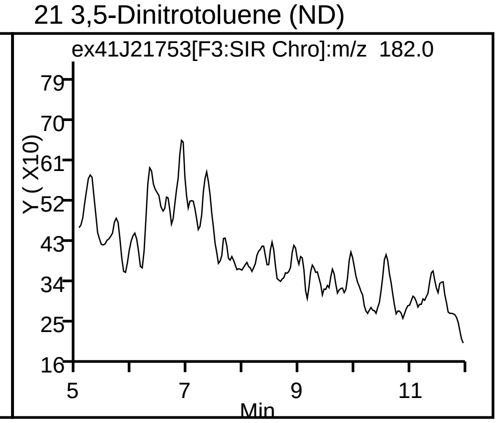
19 2,4-Dinitrotoluene (ND)



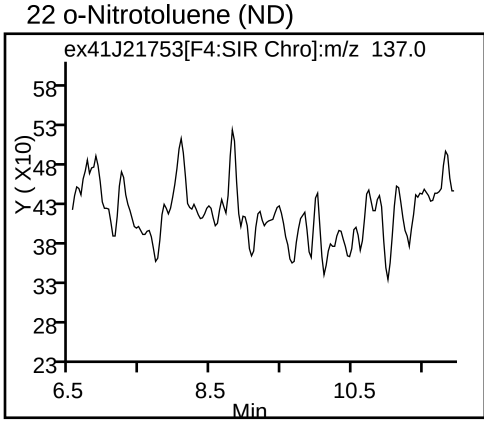
20 PETN (ND)



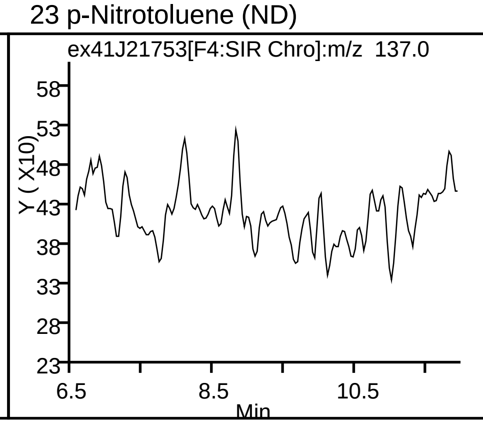
21 3,5-Dinitrotoluene (ND)



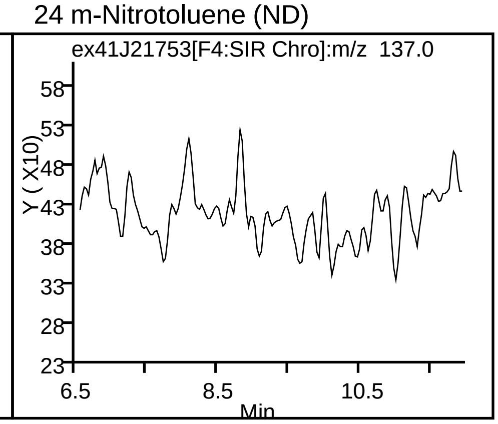
22 o-Nitrotoluene (ND)



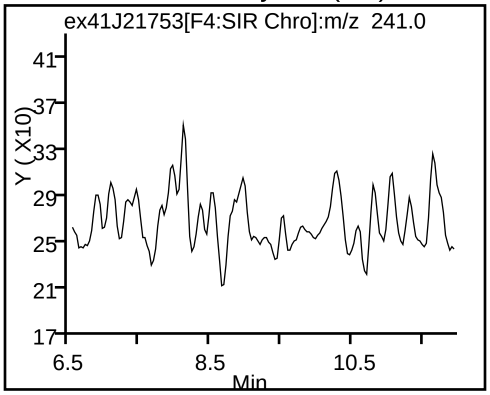
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP01 SB130 Lab Sample ID: 280-21902-22

Matrix: Solid Lab File ID: ex41J21754.d

Analysis Method: 8321B Date Collected: 10/19/2011 13:35

Extraction Method: 8330B Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.34(g) Date Analyzed: 11/03/2011 12:44

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21754.d		
Lims ID:	280-21902-A-22-C	Client ID:	SB130
Inject. Date:	03-Nov-2011 12:44:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-22-C 280-0002711-005		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	88
Lims Batch ID:	94610	Lims Sample ID:	5
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		631287	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		1973885	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1386480	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.954							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.337							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.105	524020	76.5			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							
15 2,3-Dinitrotoluene										1
3	182.0		6.391							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.594							
17 2,6-Dinitrotoluene										1
3	182.0		6.745							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.110	0.030		3766195	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.170							
20 PETN										
4	61.8		7.616							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										1
4	137.0		8.132							
23 p-Nitrotoluene										1
4	137.0		8.648							
24 m-Nitrotoluene										1
4	137.0		9.316							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.167							

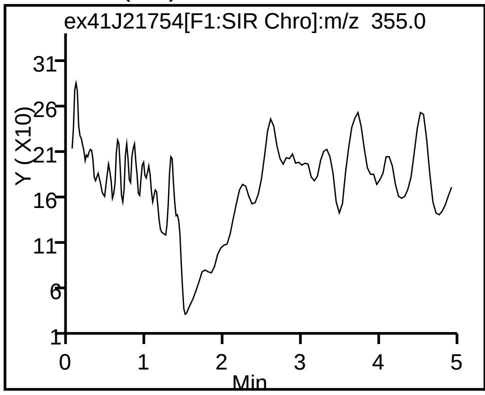
QC Flag Legend

Processing Flags
1 - Missing Peaks

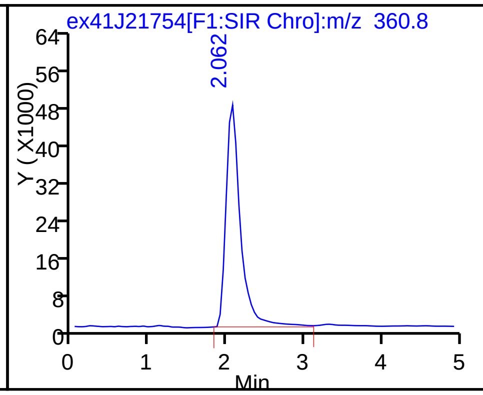
Report Date: 04-Nov-2011 06:46:31 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21754.d

Injection Date:	03-Nov-2011 12:44:00	Limit Group:	LC - 8321A Expl
Client ID:	SB130	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	5
Operator ID:		Injection Vol:	40.00 ul

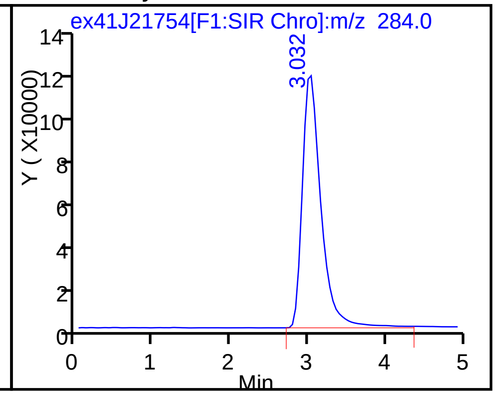
2 HMX (ND)



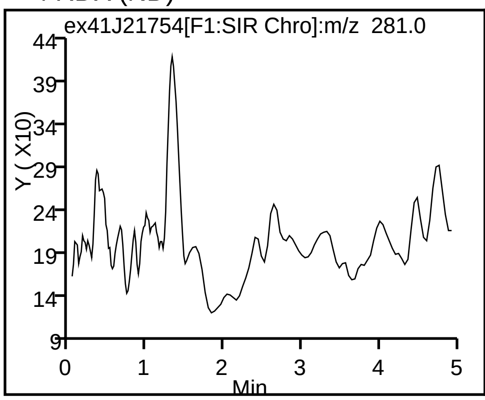
* 1 HMX-13C4



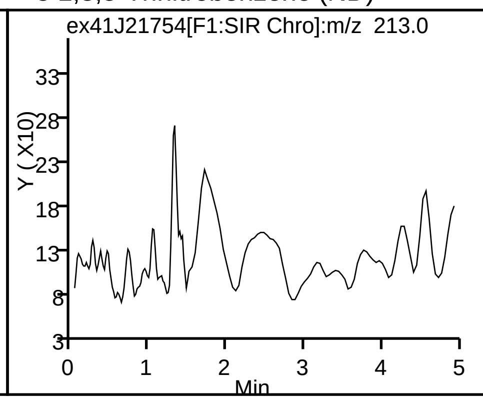
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



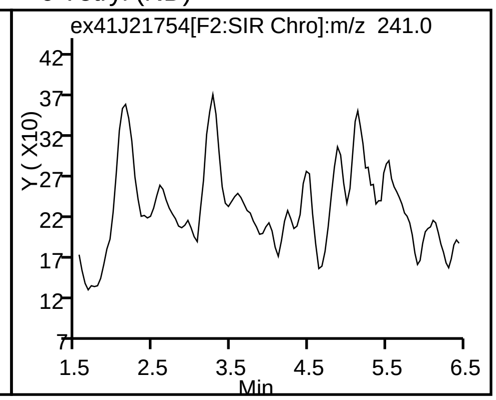
4 RDX (ND)



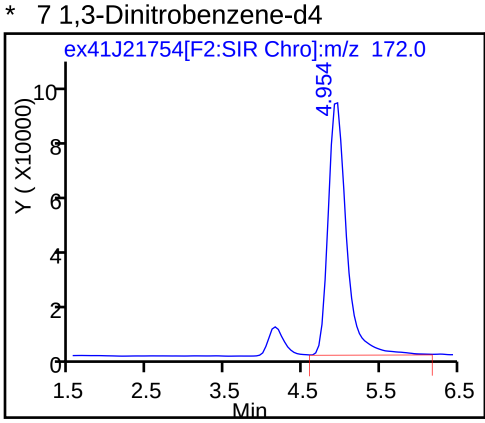
5 1,3,5-Trinitrobenzene (ND)



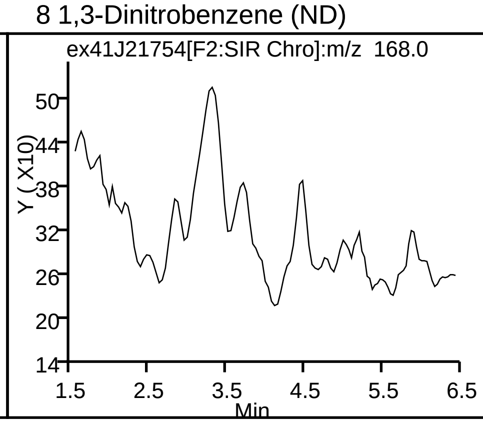
6 Tetryl (ND)



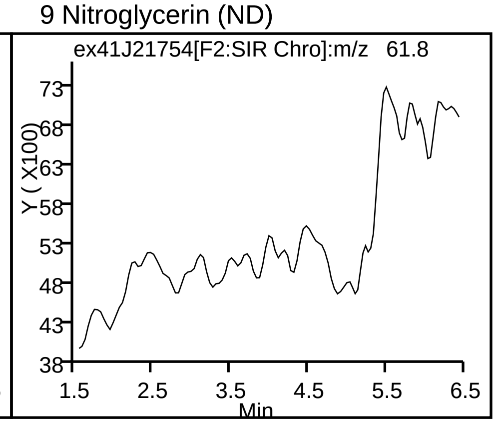
* 7 1,3-Dinitrobenzene-d4



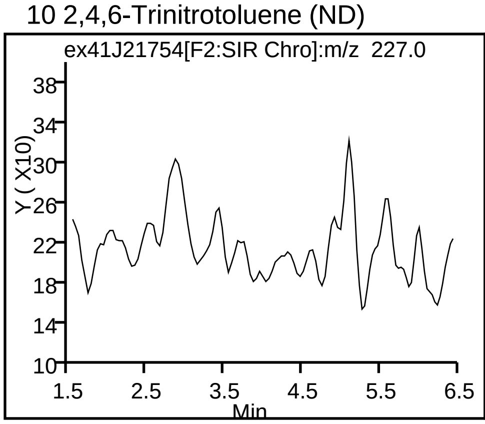
8 1,3-Dinitrobenzene (ND)



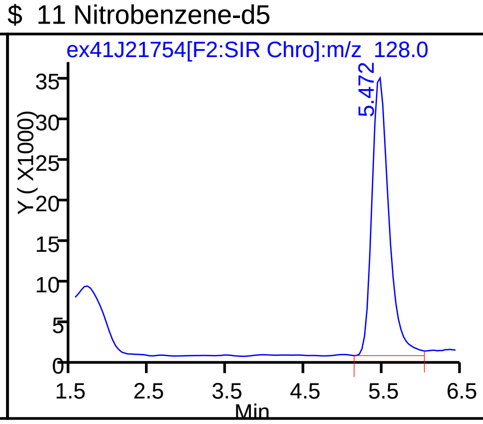
9 Nitroglycerin (ND)



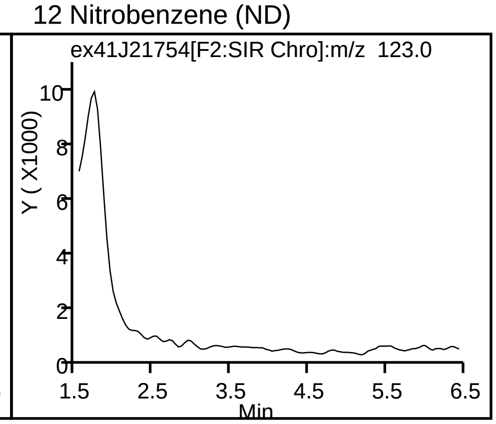
10 2,4,6-Trinitrotoluene (ND)



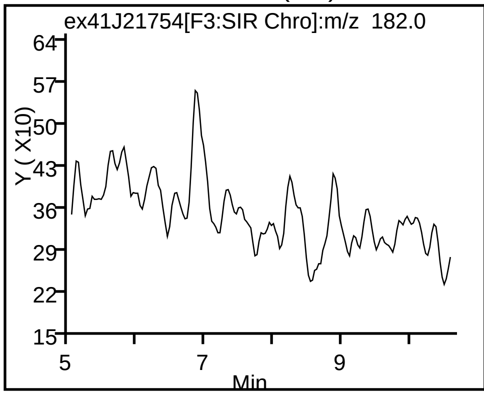
$ 11 Nitrobenzene-d5



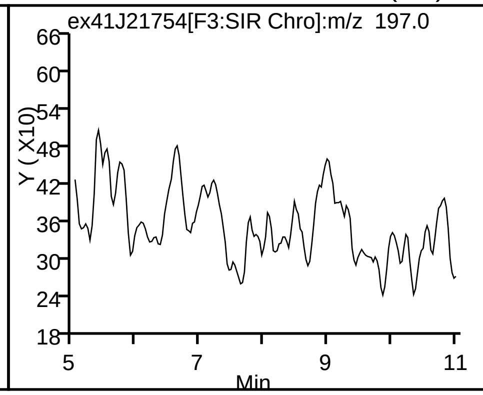
12 Nitrobenzene (ND)



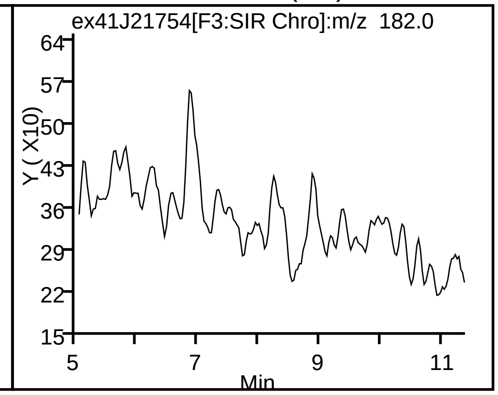
13 3,4-Dinitrotoluene (ND)



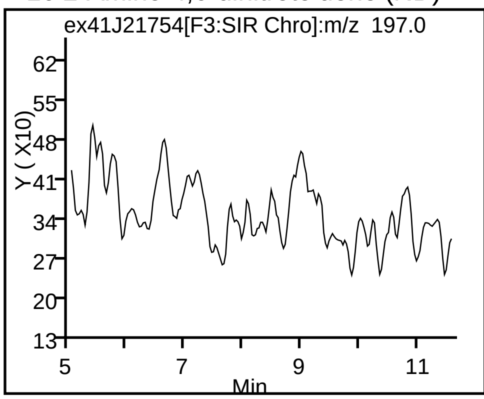
14 4-Amino-2,6-dinitrotoluene (ND)



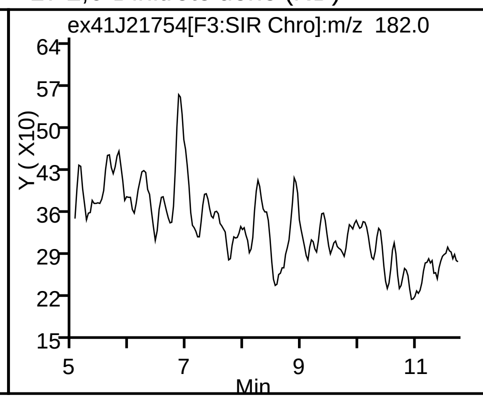
15 2,3-Dinitrotoluene (ND)



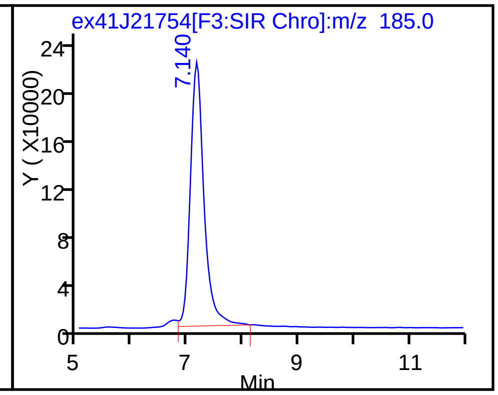
16 2-Amino-4,6-dinitrotoluene (ND)



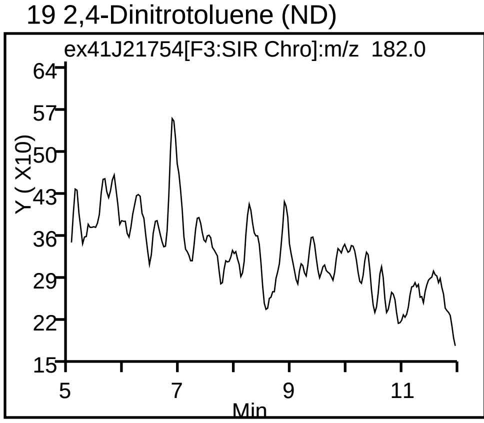
17 2,6-Dinitrotoluene (ND)



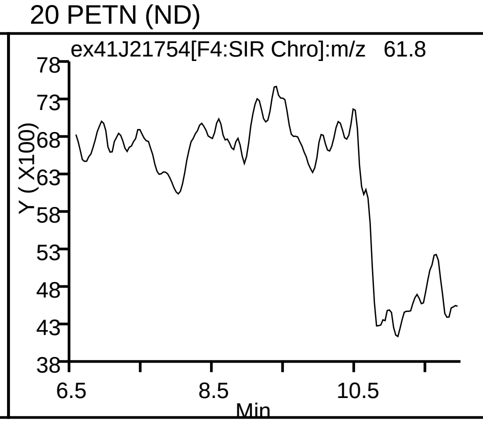
* 18 2,4-dinitrotoluene-d3



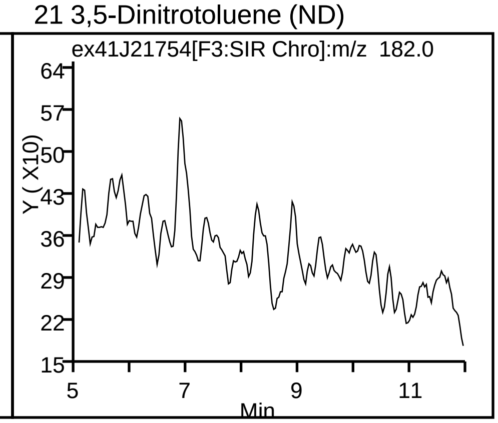
19 2,4-Dinitrotoluene (ND)



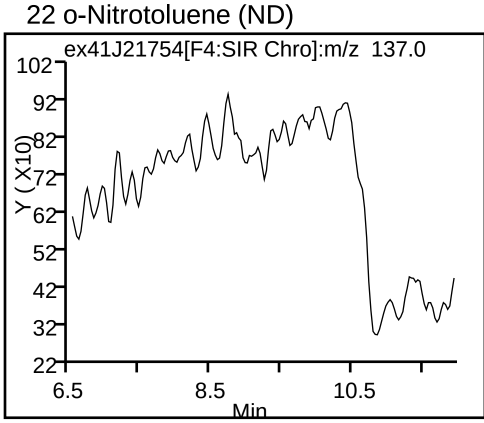
20 PETN (ND)



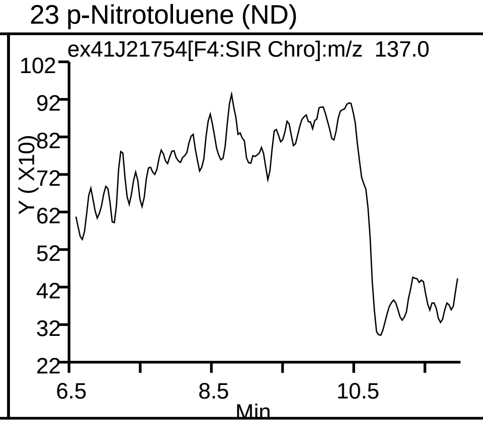
21 3,5-Dinitrotoluene (ND)



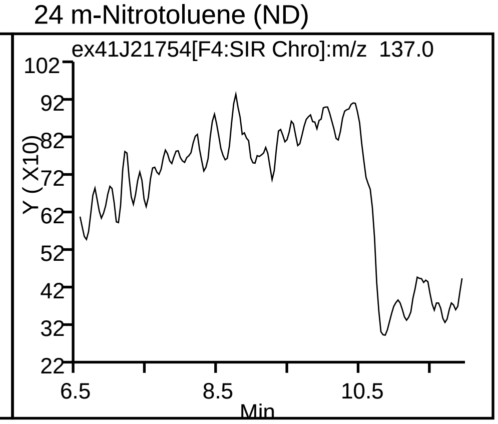
22 o-Nitrotoluene (ND)



23 p-Nitrotoluene (ND)

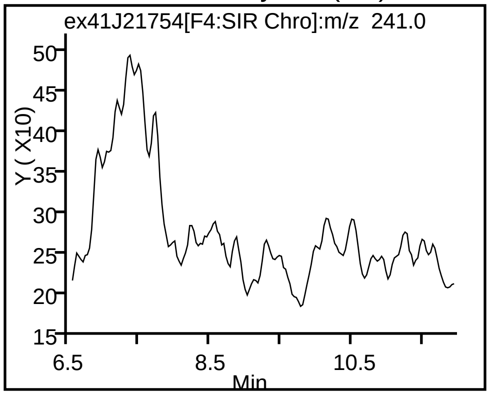


24 m-Nitrotoluene (ND)



Report Date: 04-Nov-2011 06:46:32 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21754.d

25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP01 SB131   Lab Sample ID: 280-21902-23

Matrix: Solid   Lab File ID: ex41J21757.d

Analysis Method: 8321B   Date Collected: 10/19/2011 13:45

Extraction Method: 8330B   Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.39(g)   Date Analyzed: 11/03/2011 13:24

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0050
121-82-4	RDX	0.012	U	0.096	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21757.d		
Lims ID:	280-21902-B-23-B	Client ID:	SB131
Inject. Date:	03-Nov-2011 13:24:51	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-23-B 280-0002711-008		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	91
Lims Batch ID:	94610	Lims Sample ID:	8
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		586236	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		1914538	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1411513	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.954							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.337							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.114	521455	74.7			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							
15 2,3-Dinitrotoluene										1
3	182.0		6.391							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.594							
17	2,6-Dinitrotoluene									1
3	182.0		6.745							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.140	7.110	0.030		4272891	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.170							
20	PETN									1
4	61.8		7.616							
21	3,5-Dinitrotoluene									1
3	182.0		7.778							
22	o-Nitrotoluene									1
4	137.0		8.132							
23	p-Nitrotoluene									1
4	137.0		8.648							
24	m-Nitrotoluene									1
4	137.0		9.316							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.167							

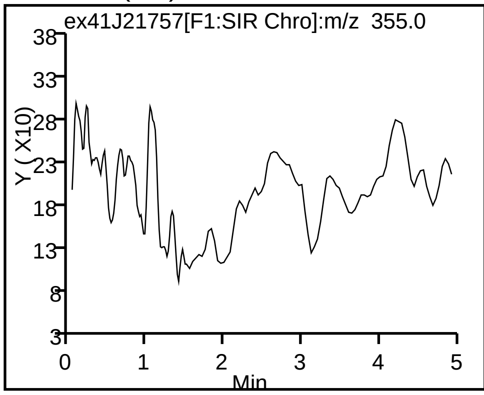
QC Flag Legend

Processing Flags
1 - Missing Peaks

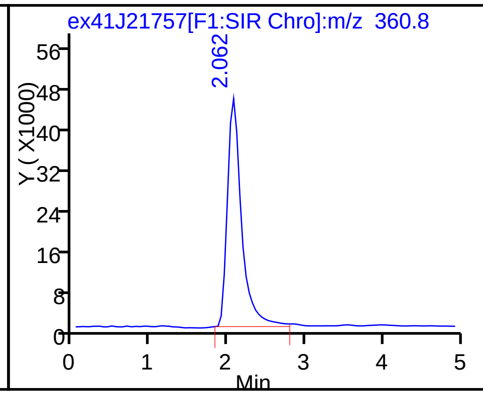
Report Date: 04-Nov-2011 06:46:35 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21757.d		
Injection Date:	03-Nov-2011 13:24:51	Limit Group:	LC - 8321A Expl
Client ID:	SB131	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	8
Operator ID:		Injection Vol:	40.00 ul

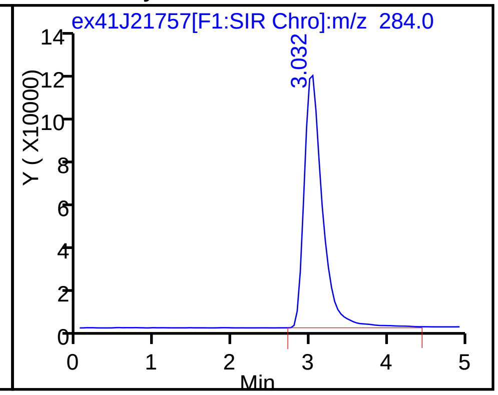
2 HMX (ND)



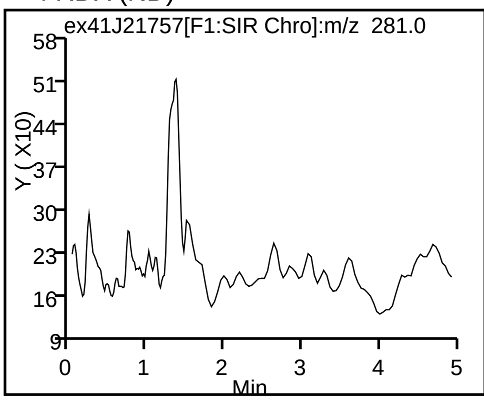
* 1 HMX-13C4



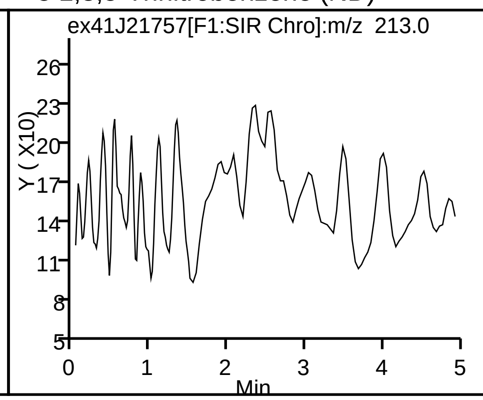
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



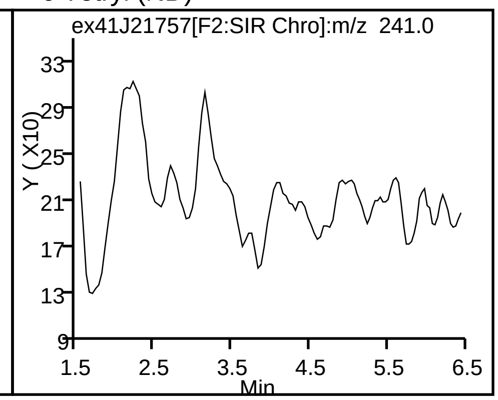
4 RDX (ND)



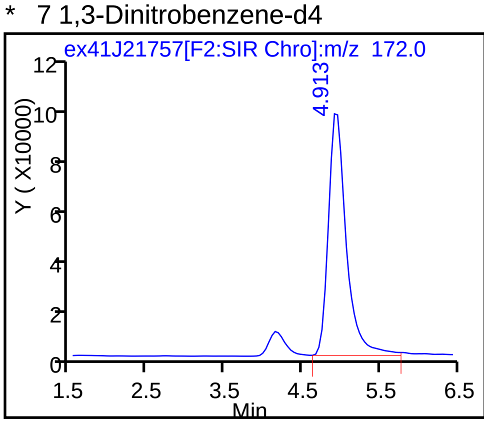
5 1,3,5-Trinitrobenzene (ND)



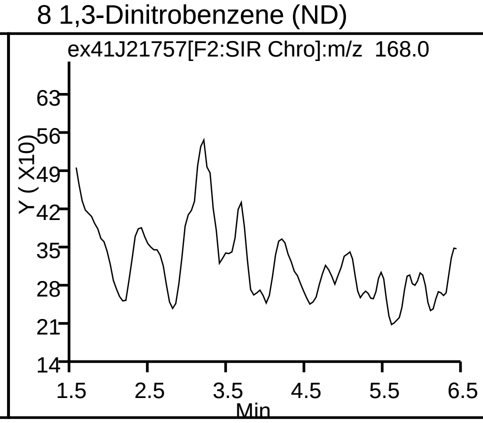
6 Tetryl (ND)



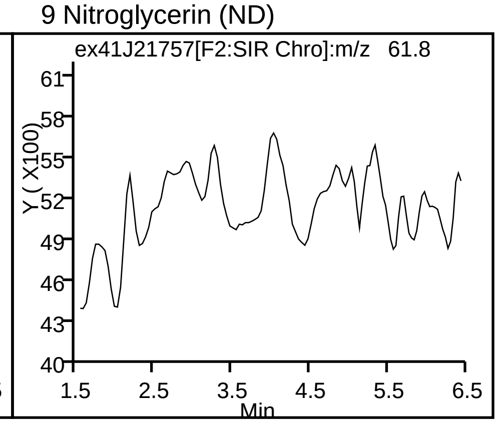
* 7 1,3-Dinitrobenzene-d4



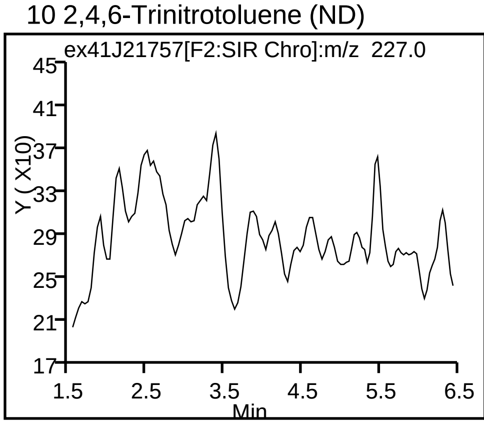
8 1,3-Dinitrobenzene (ND)



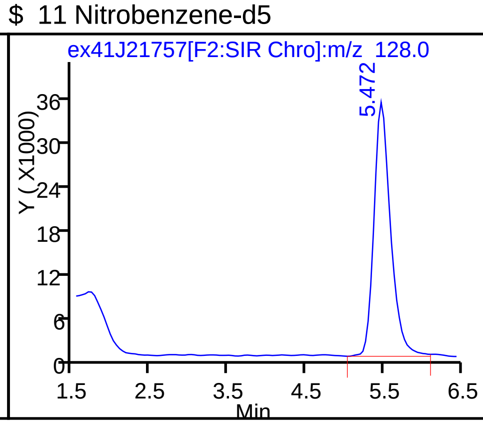
9 Nitroglycerin (ND)



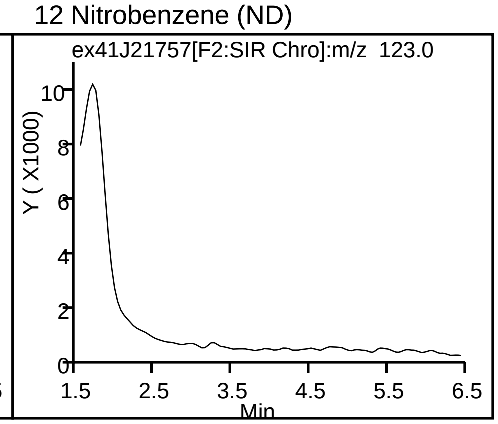
10 2,4,6-Trinitrotoluene (ND)



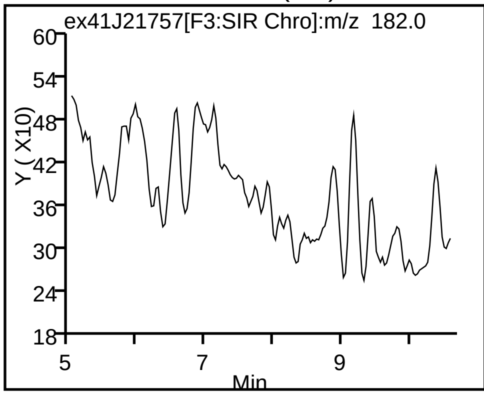
$ 11 Nitrobenzene-d5



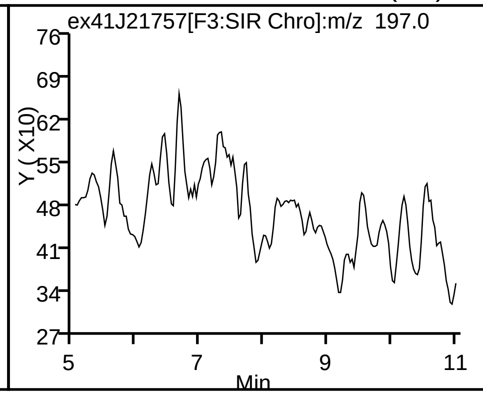
12 Nitrobenzene (ND)



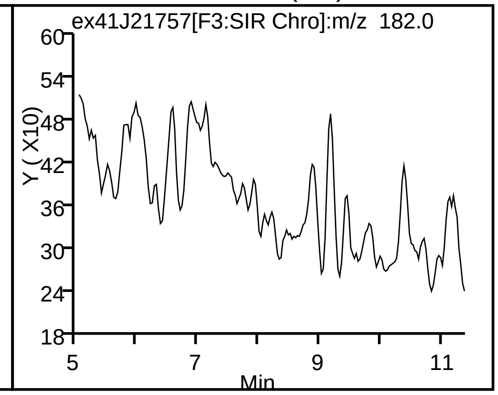
13 3,4-Dinitrotoluene (ND)



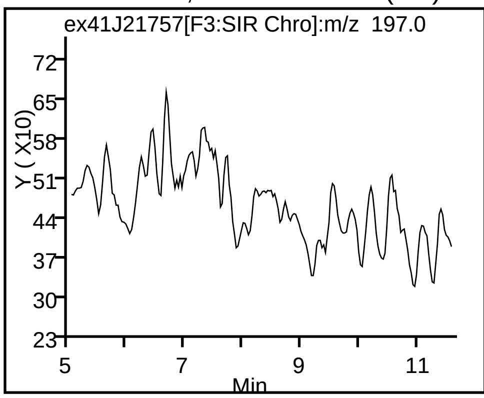
14 4-Amino-2,6-dinitrotoluene (ND)



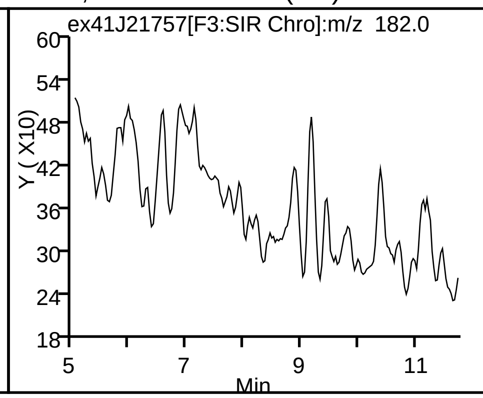
15 2,3-Dinitrotoluene (ND)



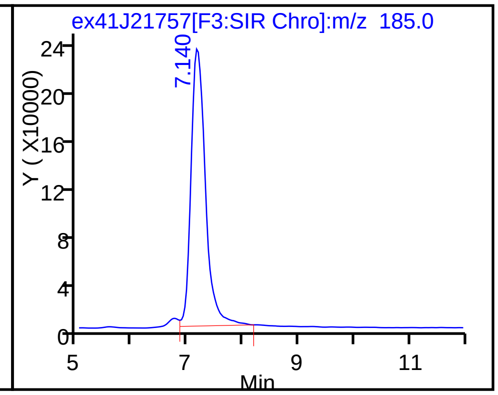
16 2-Amino-4,6-dinitrotoluene (ND)



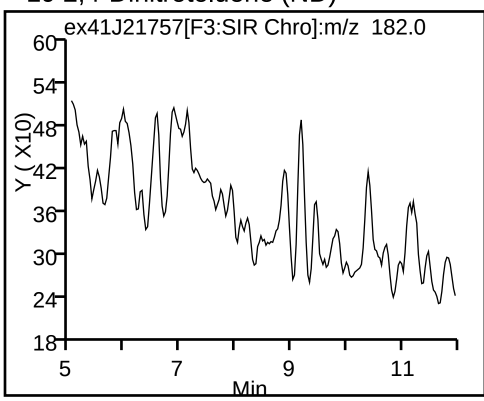
17 2,6-Dinitrotoluene (ND)



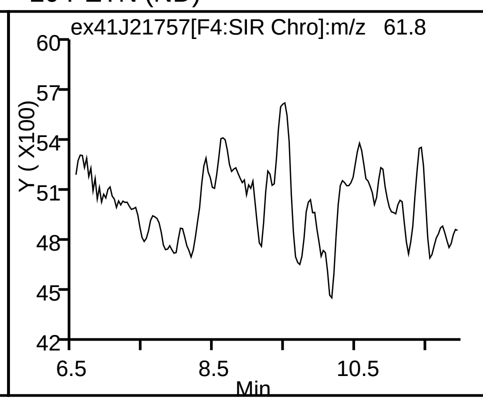
* 18 2,4-dinitrotoluene-d3



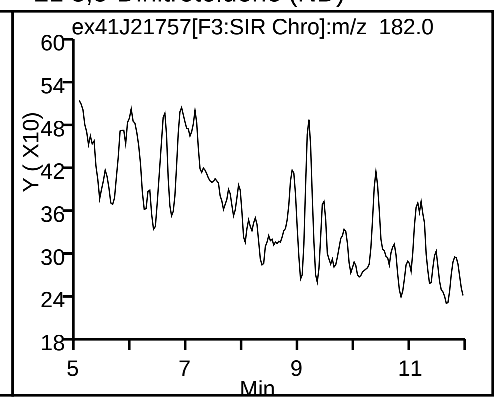
19 2,4-Dinitrotoluene (ND)



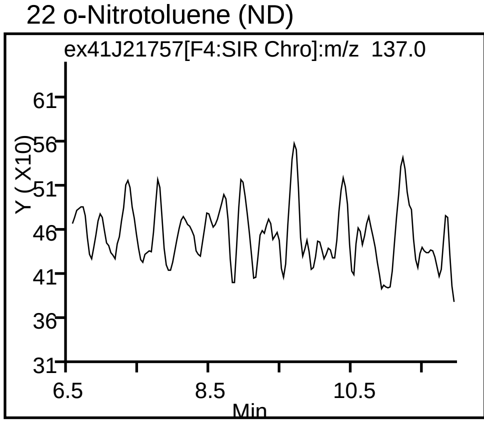
20 PETN (ND)



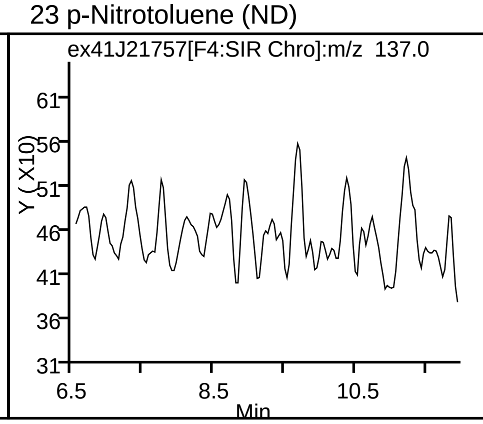
21 3,5-Dinitrotoluene (ND)



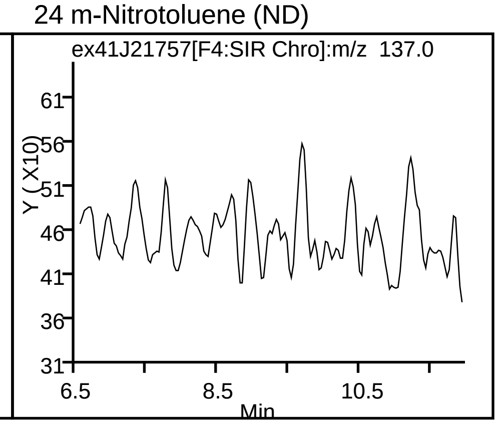
22 o-Nitrotoluene (ND)



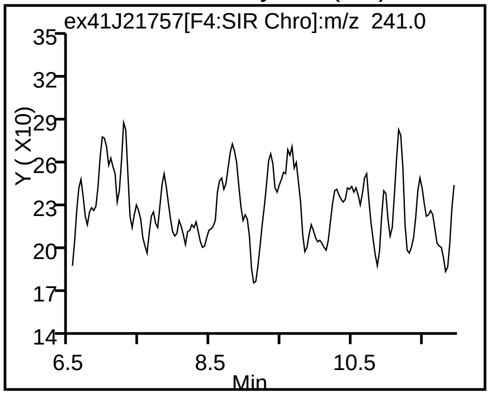
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP27 SB052   Lab Sample ID: 280-21902-35

Matrix: Solid   Lab File ID: ex41J21758.d

Analysis Method: 8321B   Date Collected: 10/18/2011 13:55

Extraction Method: 8330B   Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.17(g)   Date Analyzed: 11/03/2011 13:38

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	70		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21758.d		
Lims ID:	280-21902-B-35-B	Client ID:	SB052
Inject. Date:	03-Nov-2011 13:38:40	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-35-B 280-0002711-009		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	92
Lims Batch ID:	94610	Lims Sample ID:	9
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	03-Nov-2011 14:17:34

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		629758	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2025352	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1462999	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.954							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.337							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.105	498360	68.9			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.391							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.594							
17 2,6-Dinitrotoluene										1
3	182.0		6.745							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.110	0.060		4037738	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.170							
20 PETN										
4	61.8		7.616							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										
4	137.0		8.132							
23 p-Nitrotoluene										
4	137.0		8.648							
24 m-Nitrotoluene										
4	137.0		9.316							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.167							

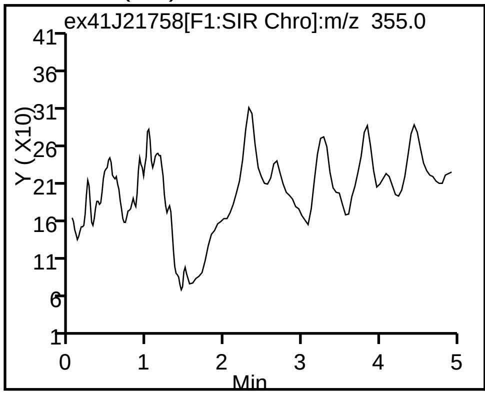
QC Flag Legend

Processing Flags
1 - Missing Peaks

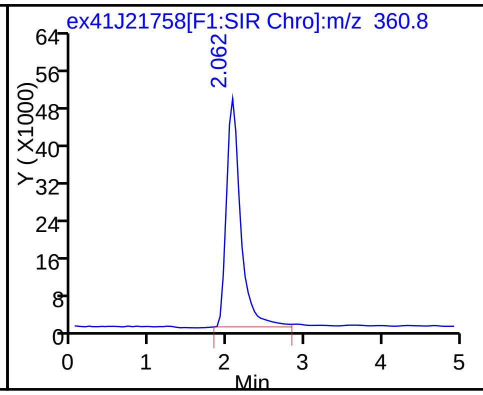
Report Date: 04-Nov-2011 06:46:36 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21758.d

Injection Date:	03-Nov-2011 13:38:40	Limit Group:	LC - 8321A Expl
Client ID:	SB052	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	9
Operator ID:		Injection Vol:	40.00 ul

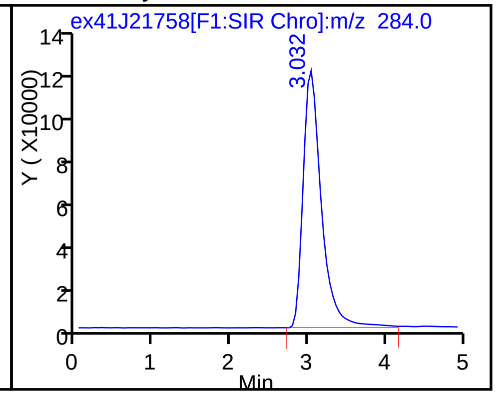
2 HMX (ND)



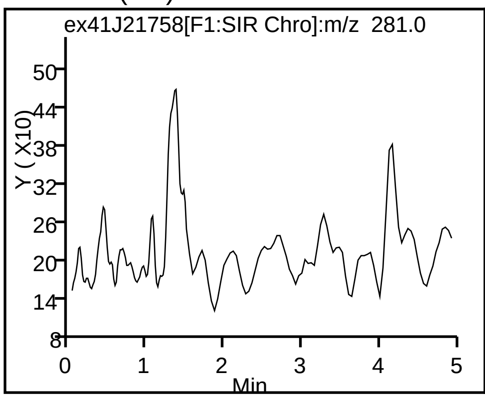
* 1 HMX-13C4



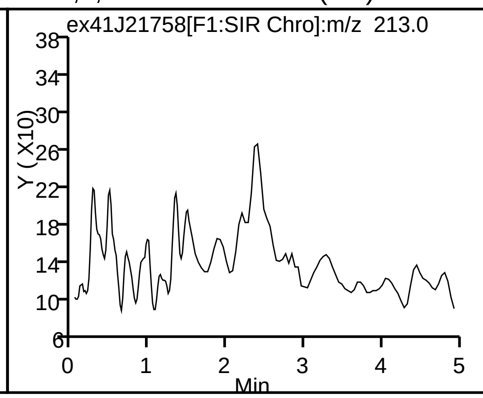
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



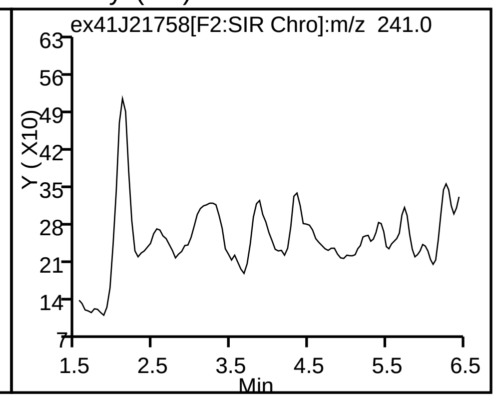
4 RDX (ND)



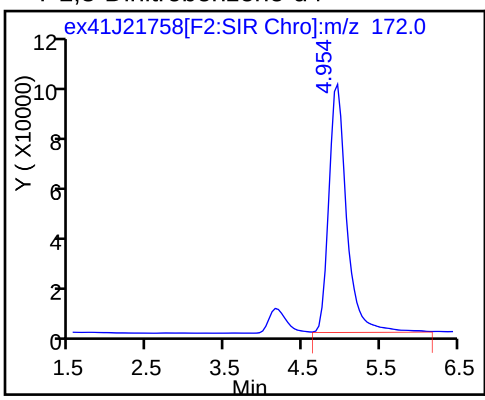
5 1,3,5-Trinitrobenzene (ND)



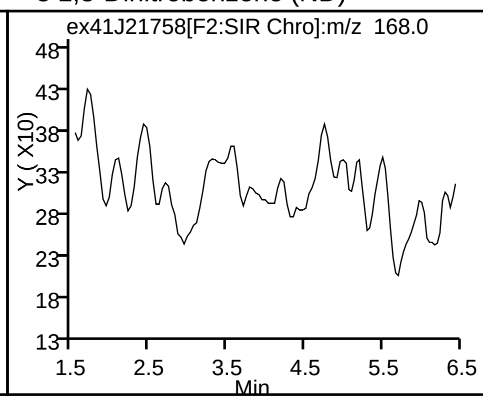
6 Tetryl (ND)



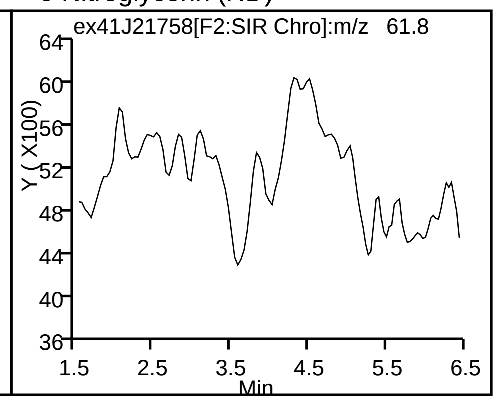
* 7 1,3-Dinitrobenzene-d4



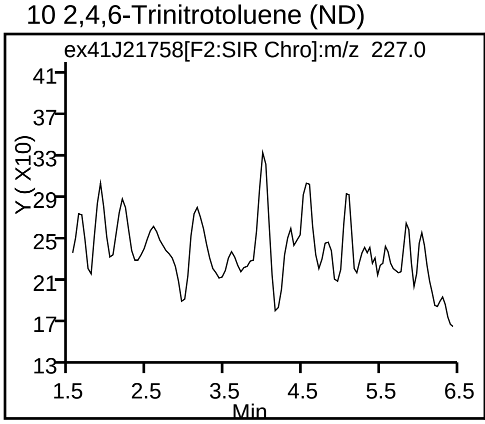
8 1,3-Dinitrobenzene (ND)



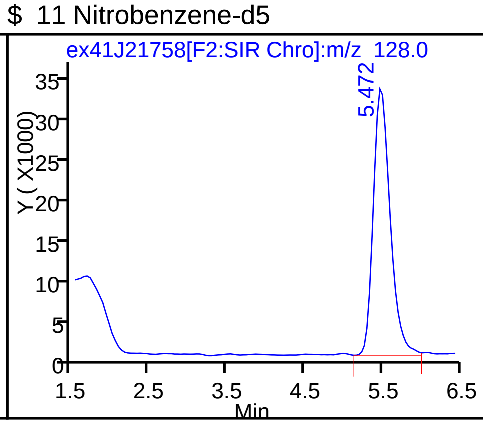
9 Nitroglycerin (ND)



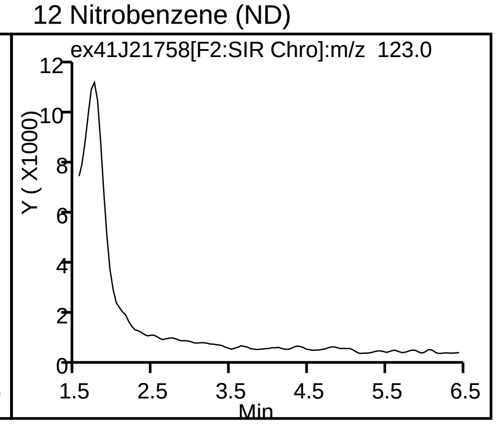
10 2,4,6-Trinitrotoluene (ND)



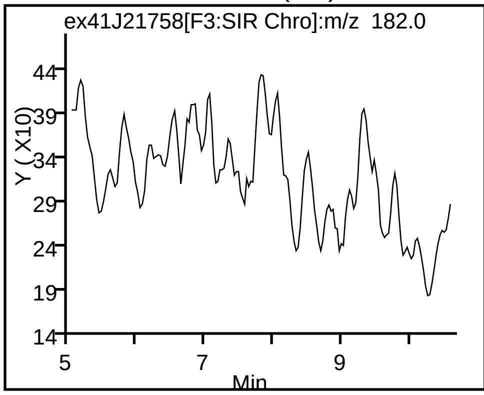
$ 11 Nitrobenzene-d5



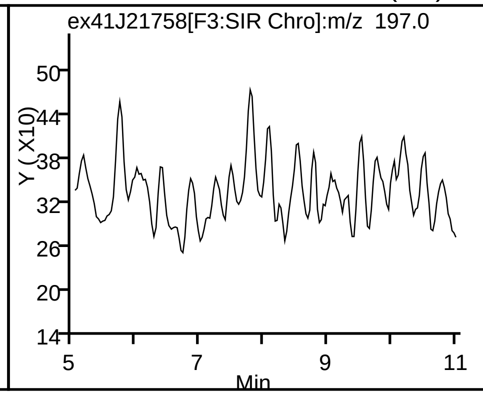
12 Nitrobenzene (ND)



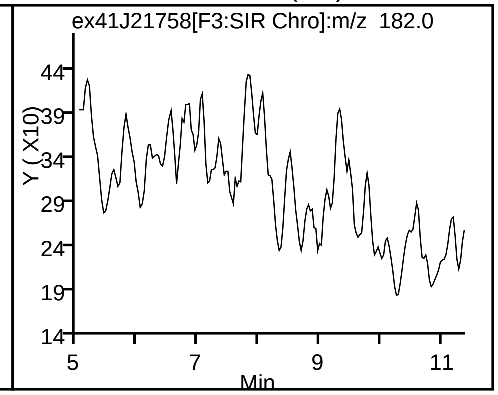
13 3,4-Dinitrotoluene (ND)



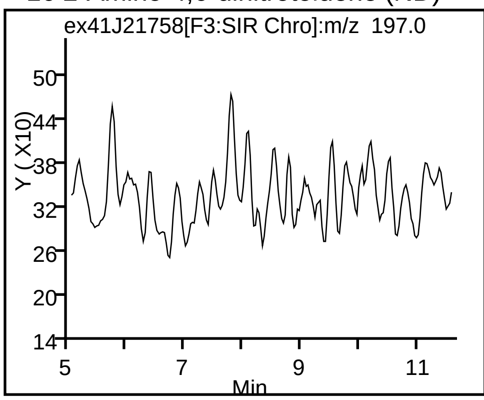
14 4-Amino-2,6-dinitrotoluene (ND)



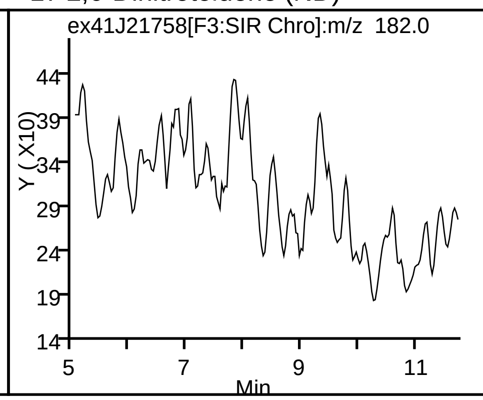
15 2,3-Dinitrotoluene (ND)



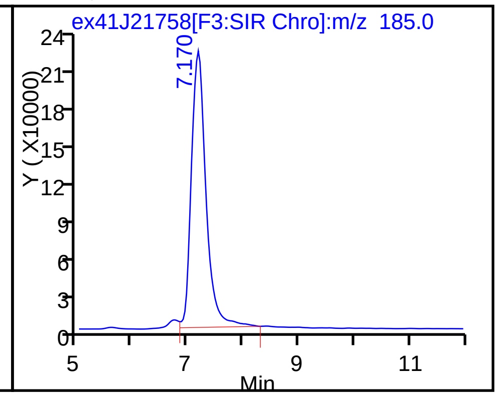
16 2-Amino-4,6-dinitrotoluene (ND)



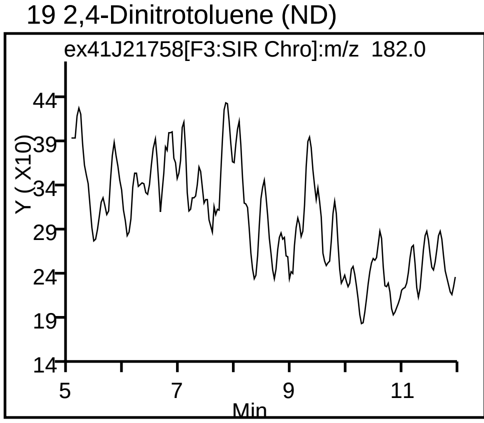
17 2,6-Dinitrotoluene (ND)



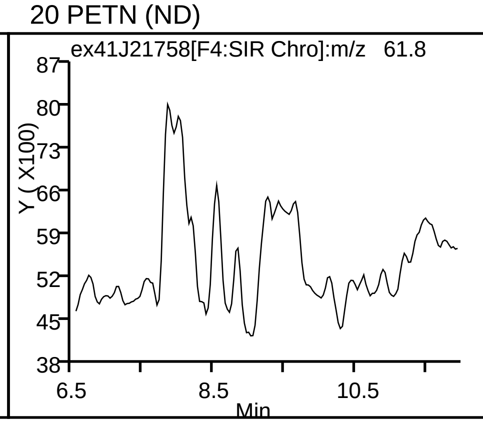
* 18 2,4-dinitrotoluene-d3



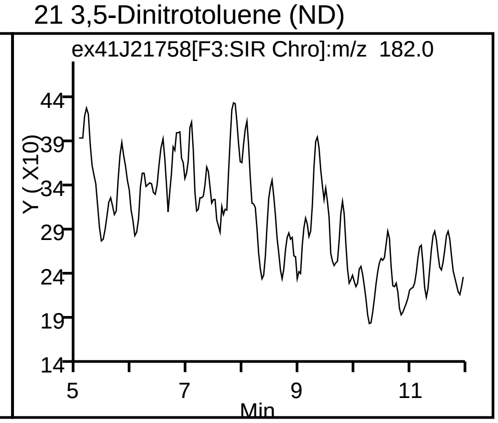
19 2,4-Dinitrotoluene (ND)



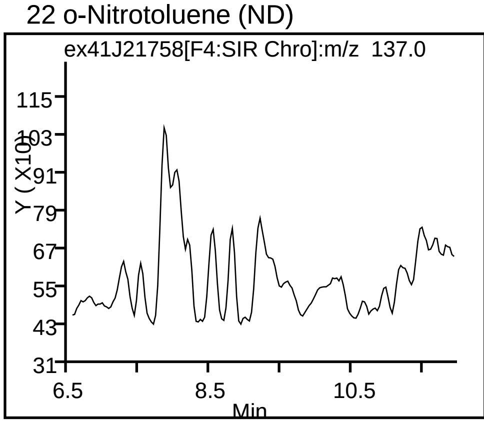
20 PETN (ND)



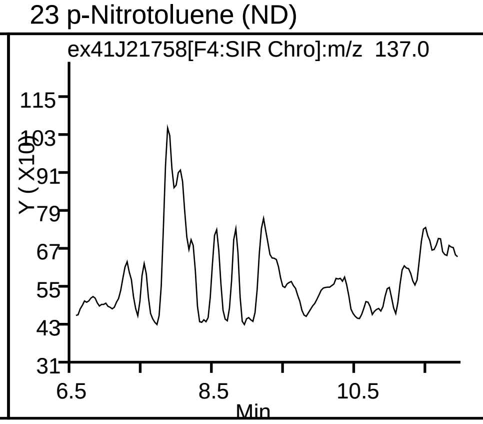
21 3,5-Dinitrotoluene (ND)



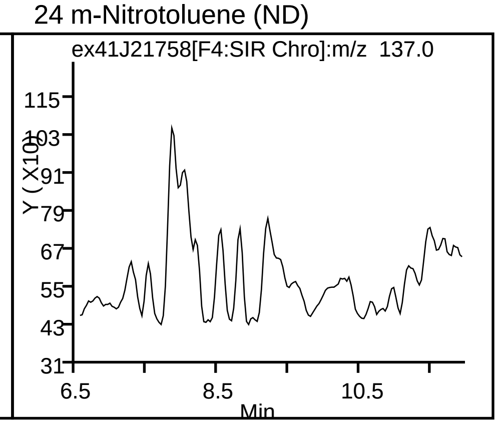
22 o-Nitrotoluene (ND)



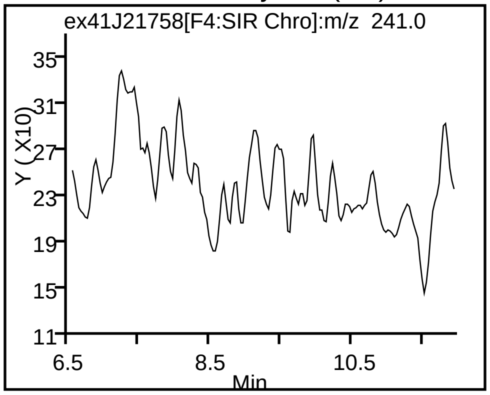
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP27 SB053 | Lab Sample ID: 280-21902-36

Matrix: Solid | Lab File ID: ex41J21760.d

Analysis Method: 8321B | Date Collected: 10/18/2011 14:05

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.68(g) | Date Analyzed: 11/03/2011 14:06

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.094	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.023	U	0.094	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.094	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.023	U	0.094	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.094	0.023	0.010
2691-41-0	HMX	0.012	U	0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.094	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.094	0.012	0.0098
78-11-5	PETN	0.012	U	0.094	0.012	0.0048
121-82-4	RDX	0.012	U	0.094	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.094	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	71		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21760.d		
Lims ID:	280-21902-A-36-C	Client ID:	SB053
Inject. Date:	03-Nov-2011 14:06:08	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-36-C 280-0002711-011		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	93
Lims Batch ID:	94610	Lims Sample ID:	11
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:37	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 04-Nov-2011 06:33:14

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		600461	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		1922607	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1451515	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	505705	70.5			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		3992913	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										1
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										1
4	137.0		8.162							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

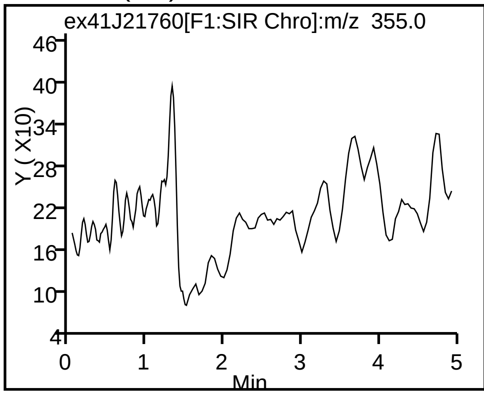
QC Flag Legend

Processing Flags
1 - Missing Peaks

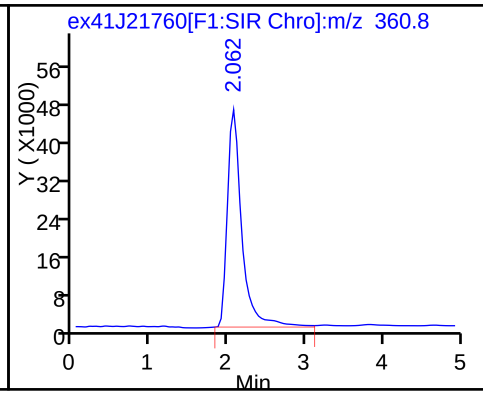
Report Date: 04-Nov-2011 06:46:38 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21760.d		
Injection Date:	03-Nov-2011 14:06:08	Limit Group:	LC - 8321A Expl
Client ID:	SB053	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	11
Operator ID:		Injection Vol:	40.00 ul

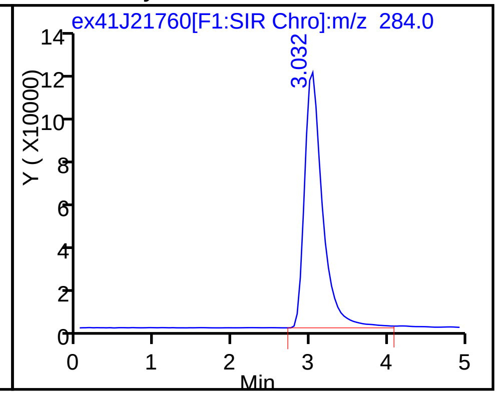
2 HMX (ND)



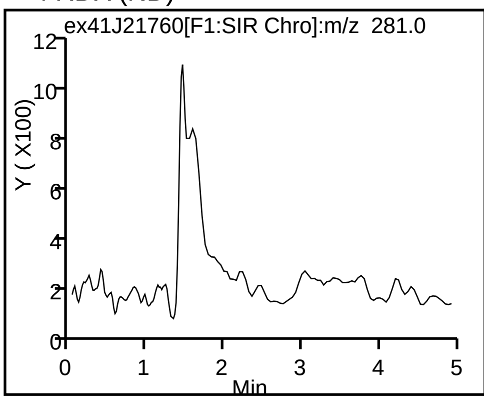
* 1 HMX-13C4



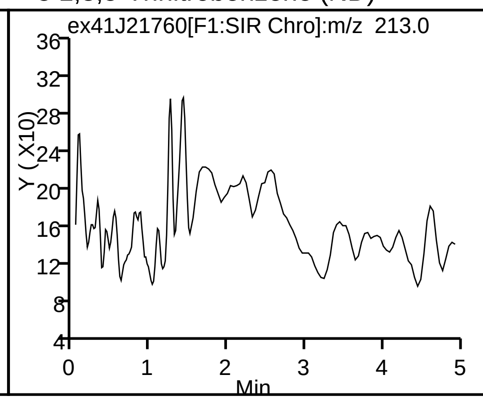
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



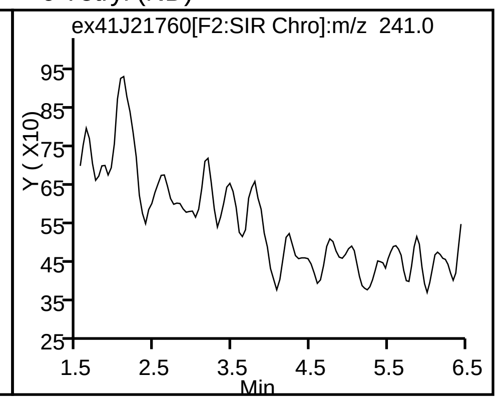
4 RDX (ND)



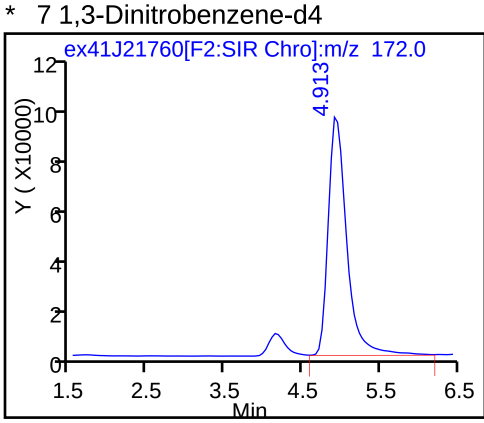
5 1,3,5-Trinitrobenzene (ND)



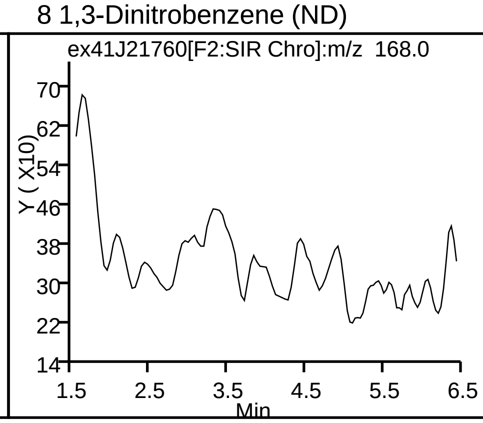
6 Tetryl (ND)



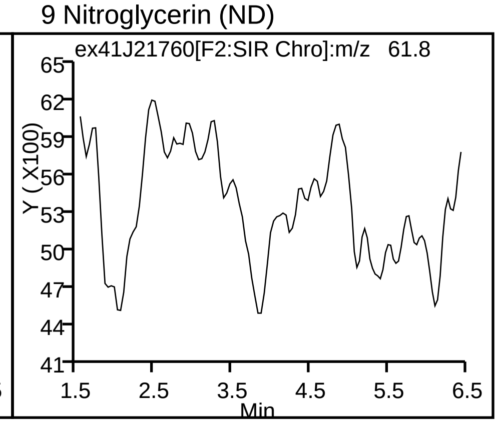
* 7 1,3-Dinitrobenzene-d4



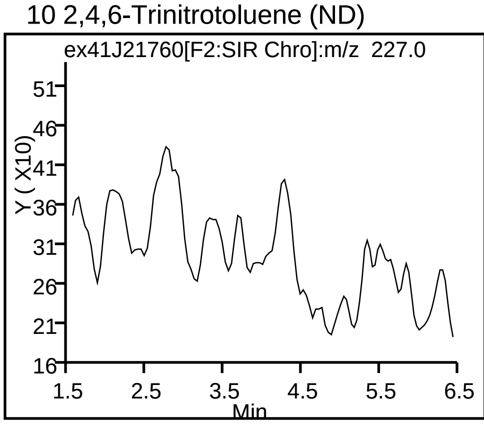
8 1,3-Dinitrobenzene (ND)



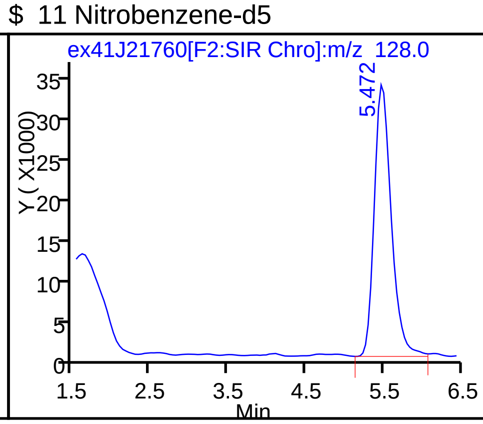
9 Nitroglycerin (ND)



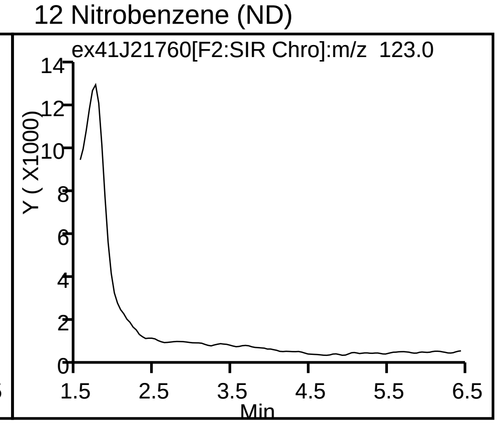
10 2,4,6-Trinitrotoluene (ND)



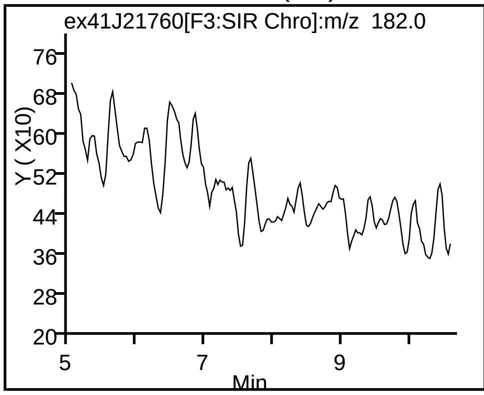
$ 11 Nitrobenzene-d5



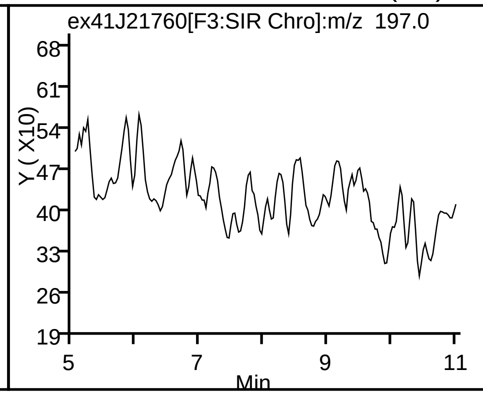
12 Nitrobenzene (ND)



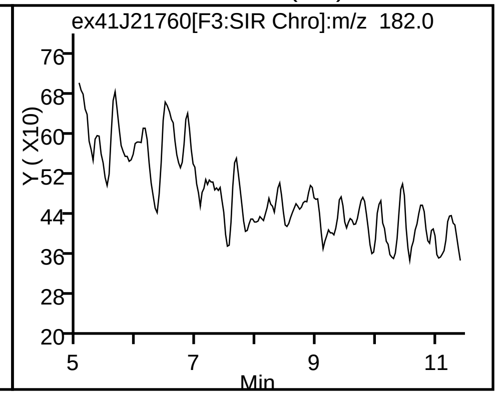
13 3,4-Dinitrotoluene (ND)



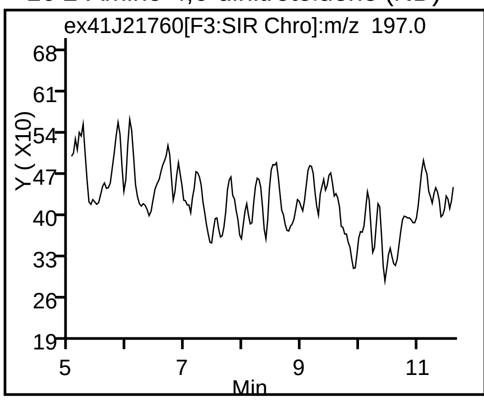
14 4-Amino-2,6-dinitrotoluene (ND)



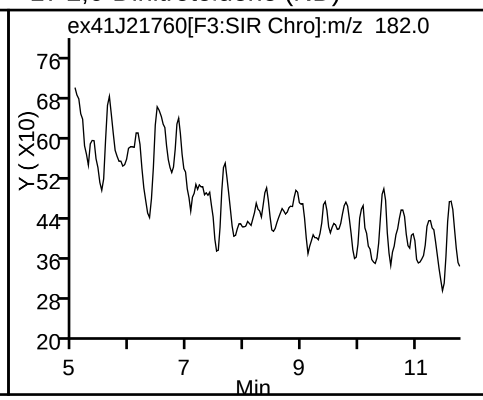
15 2,3-Dinitrotoluene (ND)



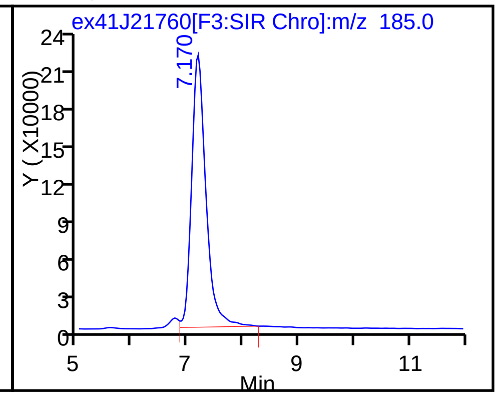
16 2-Amino-4,6-dinitrotoluene (ND)



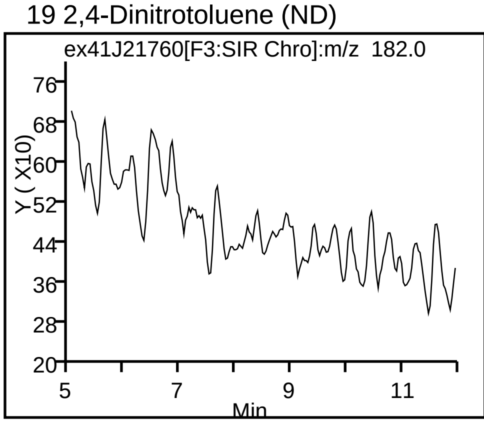
17 2,6-Dinitrotoluene (ND)



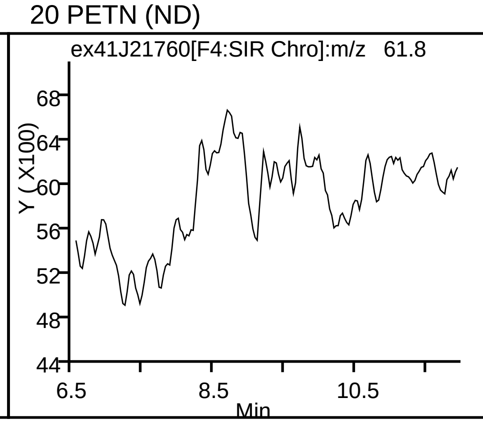
* 18 2,4-dinitrotoluene-d3



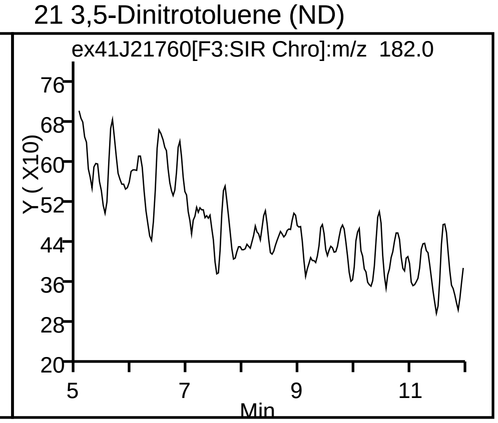
19 2,4-Dinitrotoluene (ND)



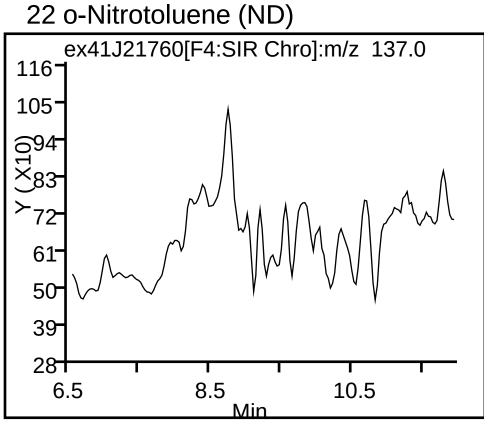
20 PETN (ND)



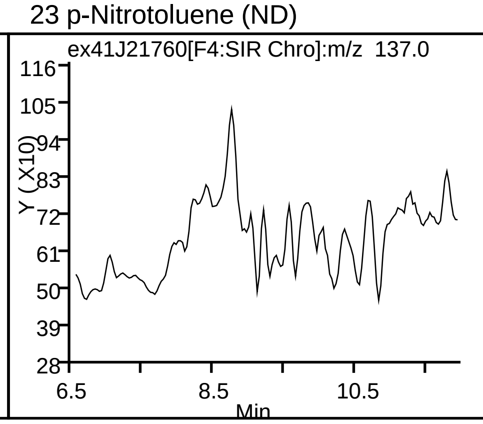
21 3,5-Dinitrotoluene (ND)



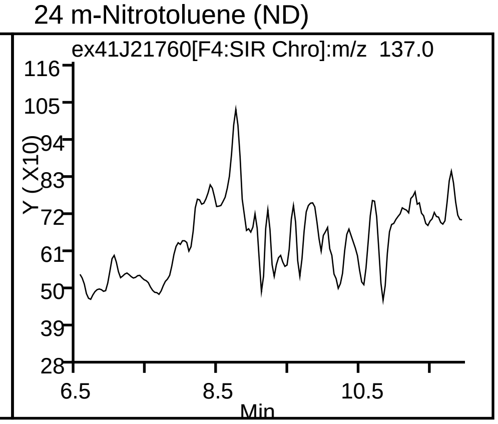
22 o-Nitrotoluene (ND)



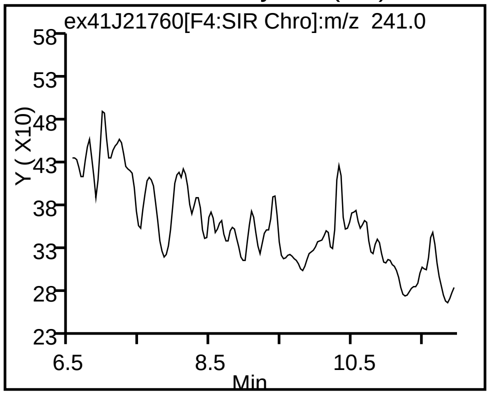
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP22 SB040 | Lab Sample ID: 280-21902-37

Matrix: Solid | Lab File ID: ex41J21761.d

Analysis Method: 8321B | Date Collected: 10/18/2011 13:40

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.42(g) | Date Analyzed: 11/03/2011 14:19

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21761.d		
Lims ID:	280-21902-B-37-B	Client ID:	SB040
Inject. Date:	03-Nov-2011 14:19:58	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-37-B 280-0002711-012		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	94
Lims Batch ID:	94610	Lims Sample ID:	12
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:37	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:33:24

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		439589	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		1642579	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1281241	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	504071	79.6			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4144283	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										1
4	137.0		8.162							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

QC Flag Legend

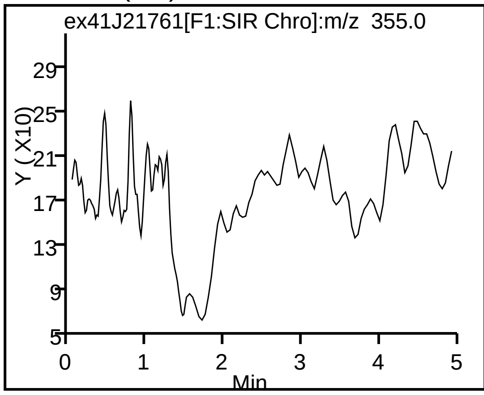
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:46:39 | Chrom Revision: 1.2 13-Jul-2011 10:43:06

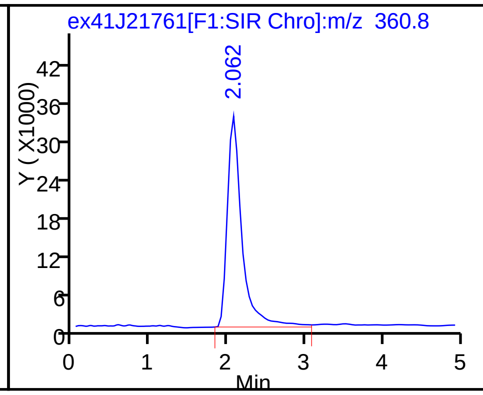
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21761.d

Injection Date:	03-Nov-2011 14:19:58	Limit Group:	LC - 8321A Expl
Client ID:	SB040	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	12
Operator ID:		Injection Vol:	40.00 ul

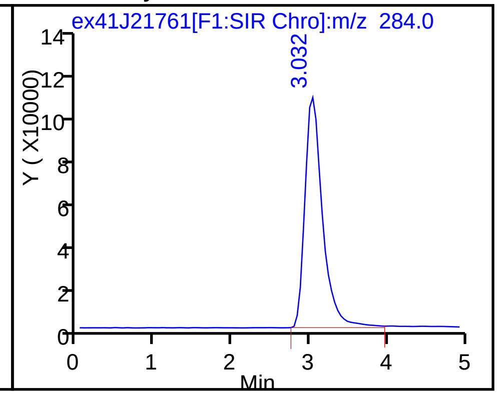
2 HMX (ND)



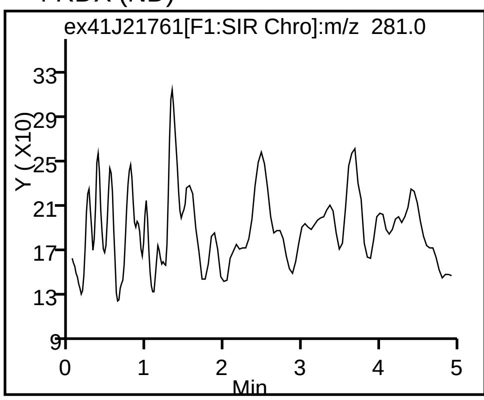
* 1 HMX-13C4



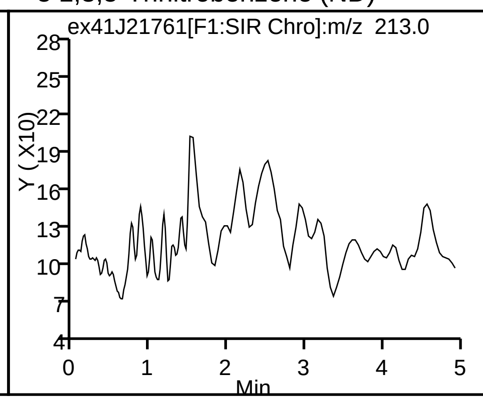
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



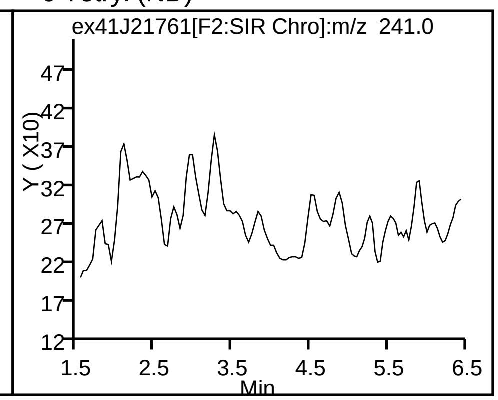
4 RDX (ND)



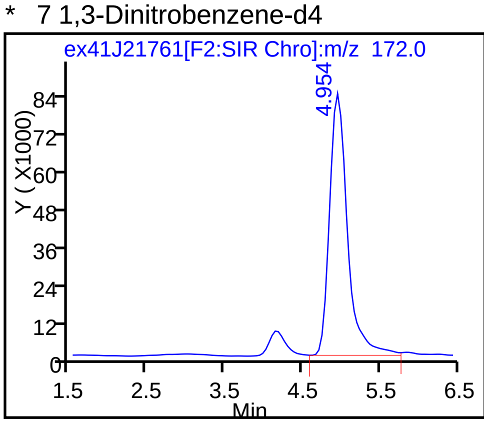
5 1,3,5-Trinitrobenzene (ND)



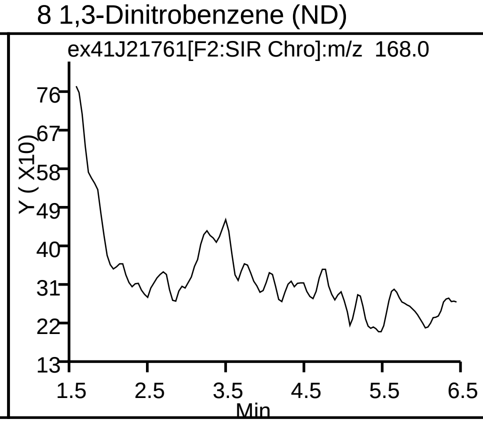
6 Tetryl (ND)



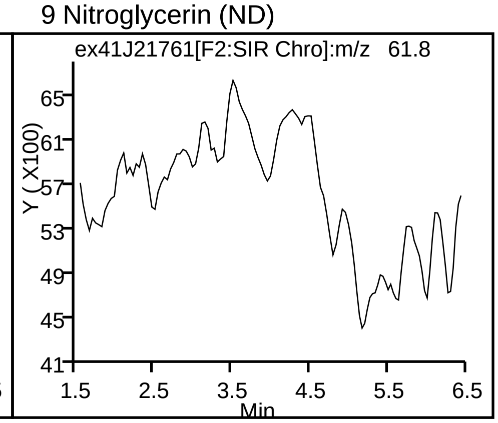
* 7 1,3-Dinitrobenzene-d4



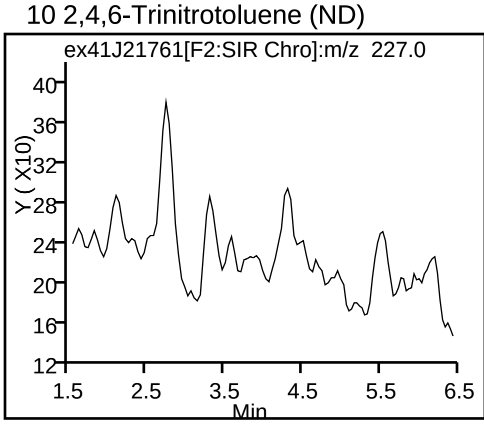
8 1,3-Dinitrobenzene (ND)



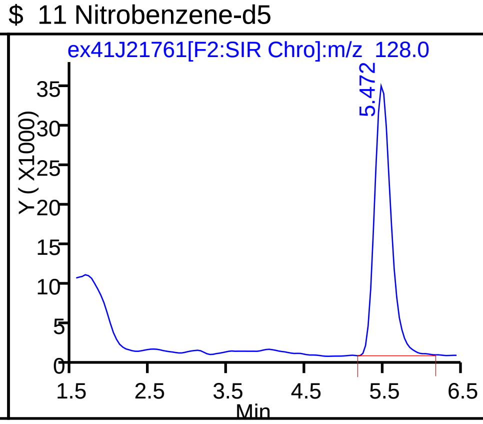
9 Nitroglycerin (ND)



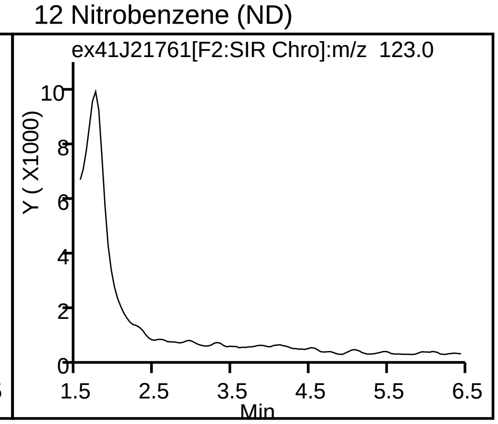
10 2,4,6-Trinitrotoluene (ND)



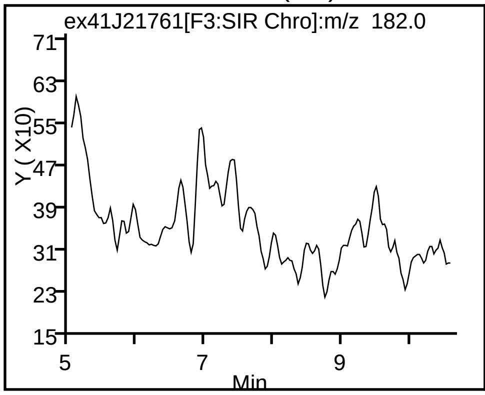
$ 11 Nitrobenzene-d5



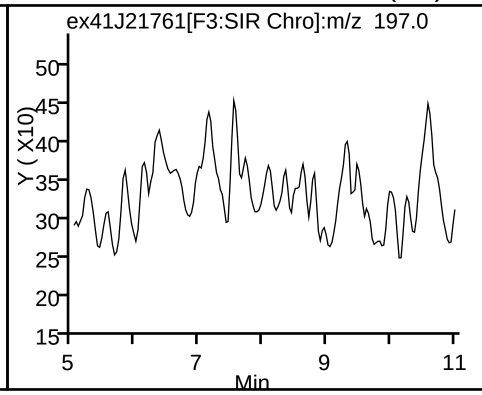
12 Nitrobenzene (ND)



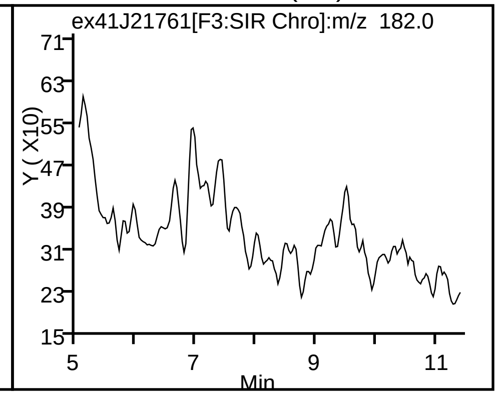
13 3,4-Dinitrotoluene (ND)



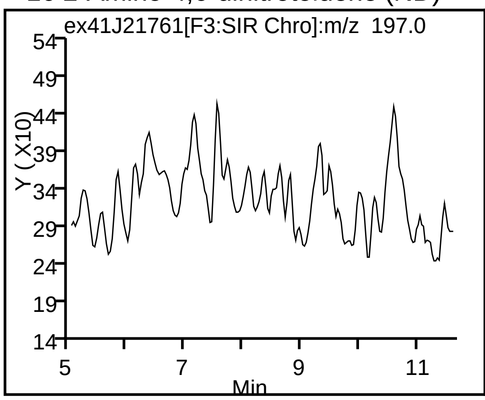
14 4-Amino-2,6-dinitrotoluene (ND)



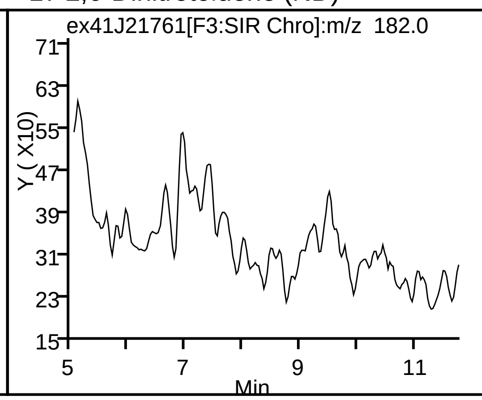
15 2,3-Dinitrotoluene (ND)



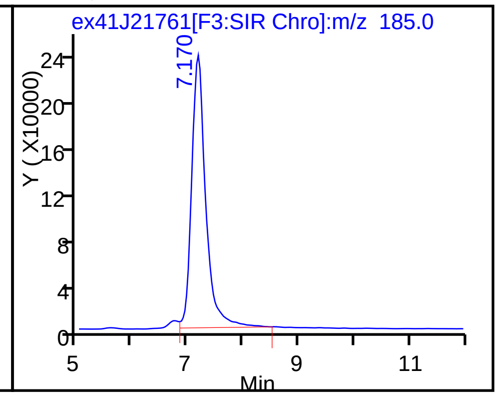
16 2-Amino-4,6-dinitrotoluene (ND)



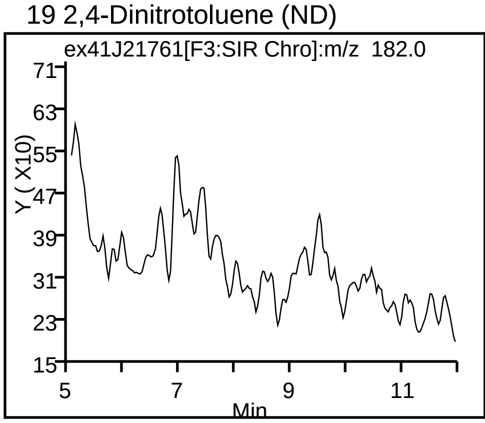
17 2,6-Dinitrotoluene (ND)



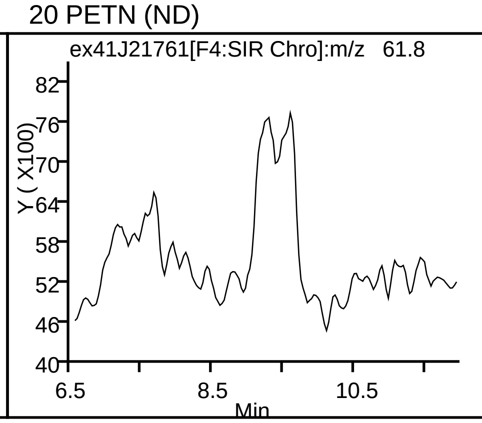
* 18 2,4-dinitrotoluene-d3



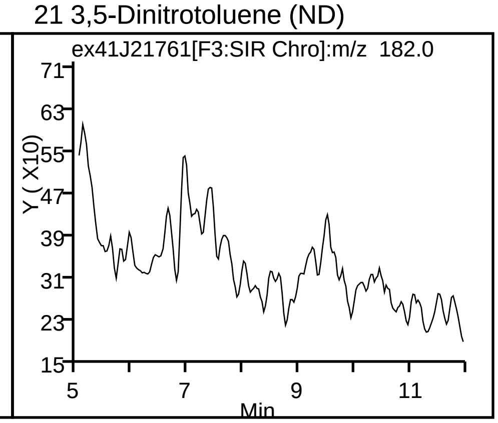
19 2,4-Dinitrotoluene (ND)



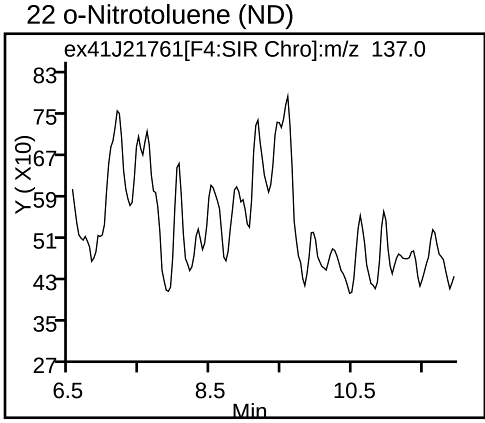
20 PETN (ND)



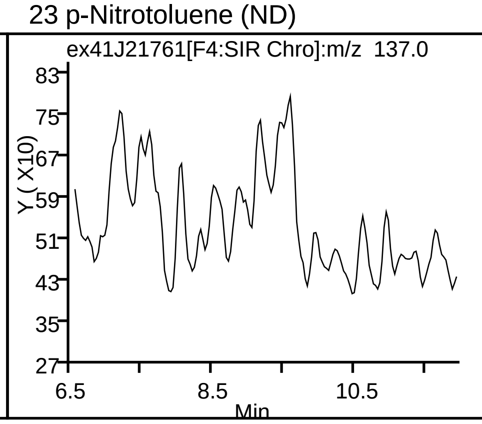
21 3,5-Dinitrotoluene (ND)



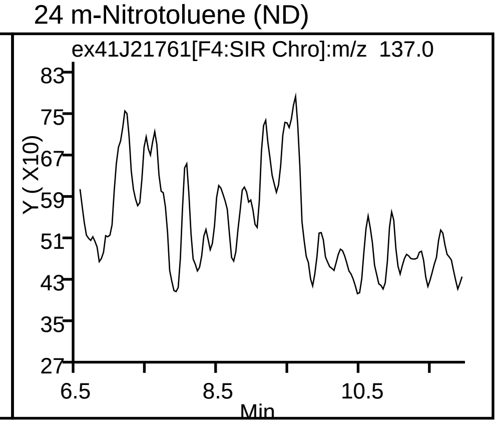
22 o-Nitrotoluene (ND)



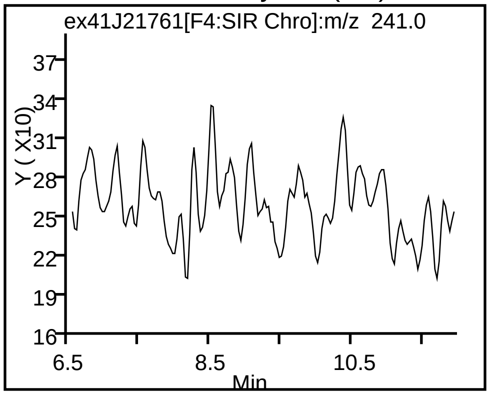
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP22 SB041 Lab Sample ID: 280-21902-38

Matrix: Solid Lab File ID: ex41J21762.d

Analysis Method: 8321B Date Collected: 10/18/2011 13:50

Extraction Method: 8330B Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.15(g) Date Analyzed: 11/03/2011 14:33

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	84		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21762.d		
Lims ID:	280-21902-A-38-C	Client ID:	SB041
Inject. Date:	03-Nov-2011 14:33:32	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-38-C 280-0002711-013		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	95
Lims Batch ID:	94610	Lims Sample ID:	13
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:37	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:33:36

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		580320	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		1746441	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1185115	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	487596	83.3			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		3544133	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										
4	137.0		8.162							
23 p-Nitrotoluene										
4	137.0		8.709							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

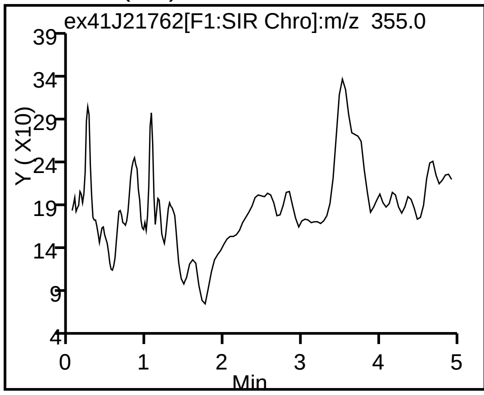
QC Flag Legend

Processing Flags
1 - Missing Peaks

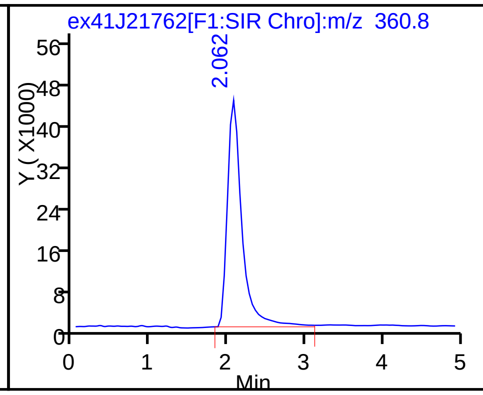
Report Date: 04-Nov-2011 06:46:39 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21762.d

Injection Date:	03-Nov-2011 14:33:32	Limit Group:	LC - 8321A Expl
Client ID:	SB041	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	13
Operator ID:		Injection Vol:	40.00 ul

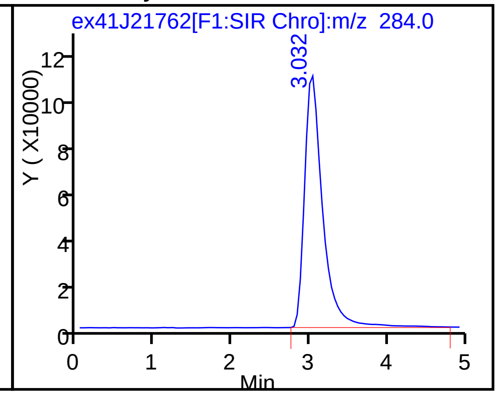
2 HMX (ND)



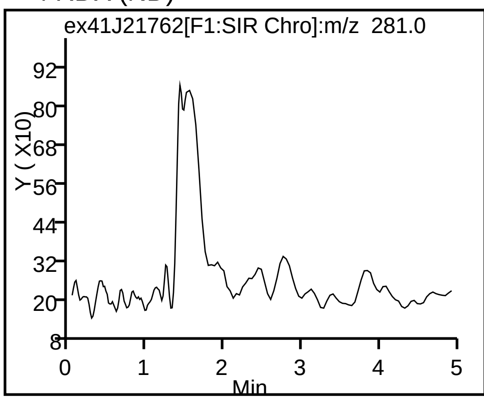
* 1 HMX-13C4



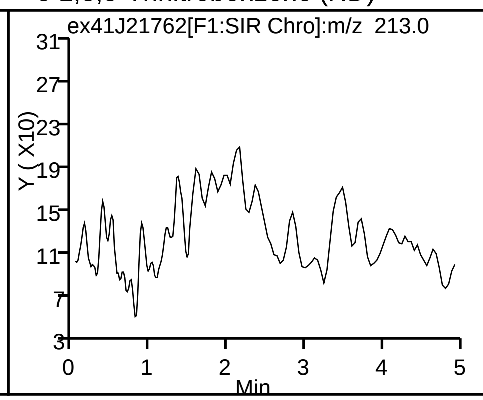
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



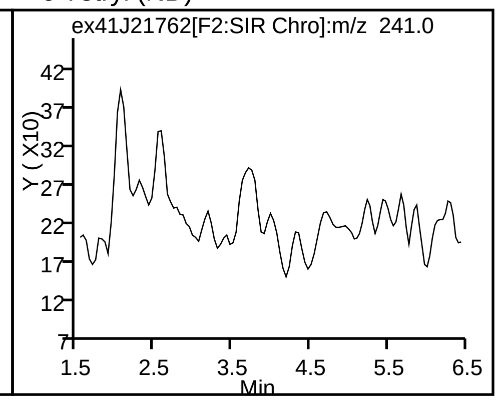
4 RDX (ND)



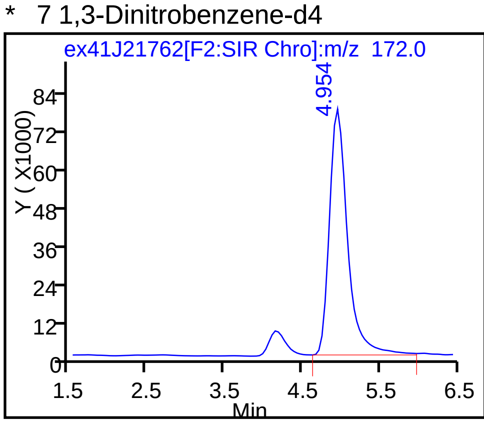
5 1,3,5-Trinitrobenzene (ND)



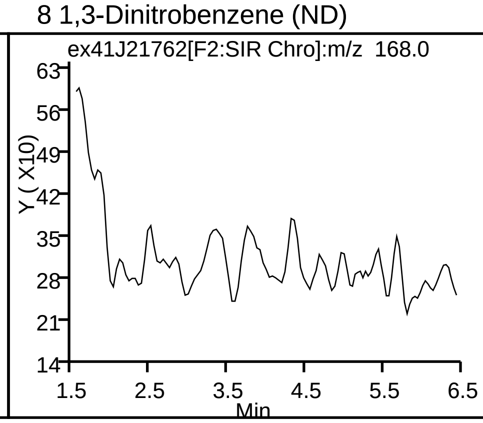
6 Tetryl (ND)



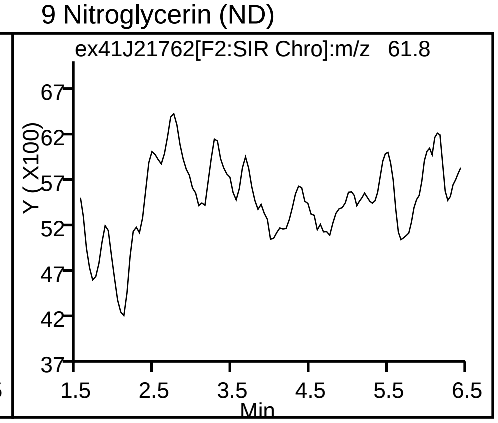
* 7 1,3-Dinitrobenzene-d4



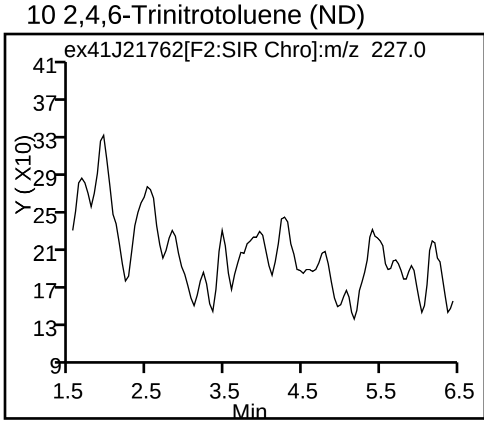
8 1,3-Dinitrobenzene (ND)



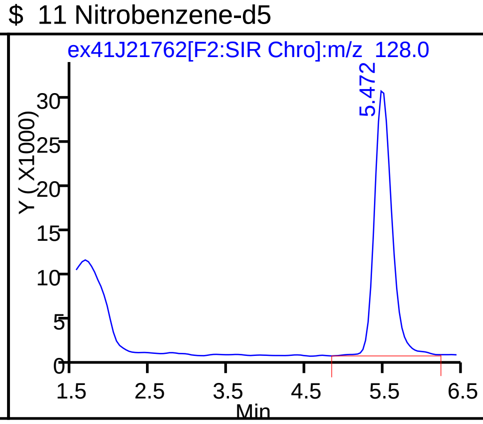
9 Nitroglycerin (ND)



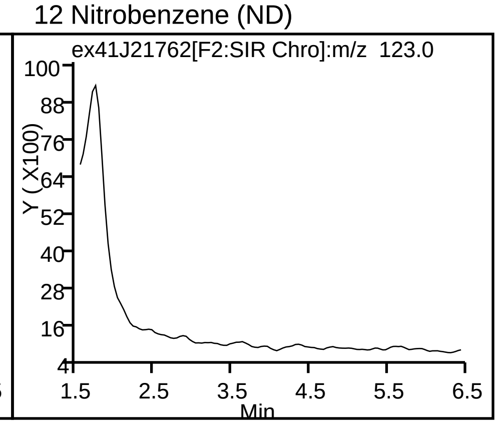
10 2,4,6-Trinitrotoluene (ND)



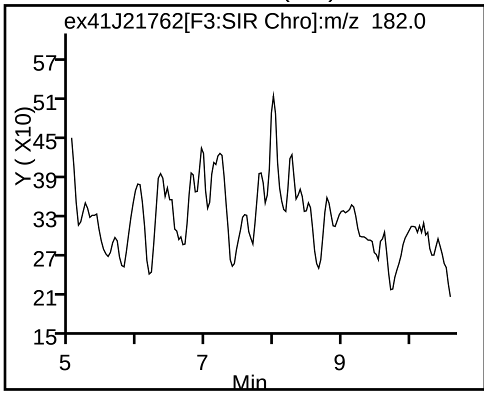
$ 11 Nitrobenzene-d5



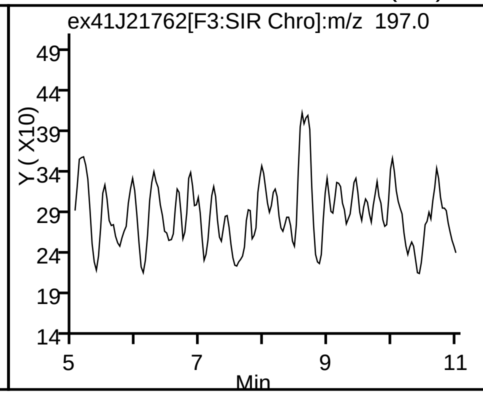
12 Nitrobenzene (ND)



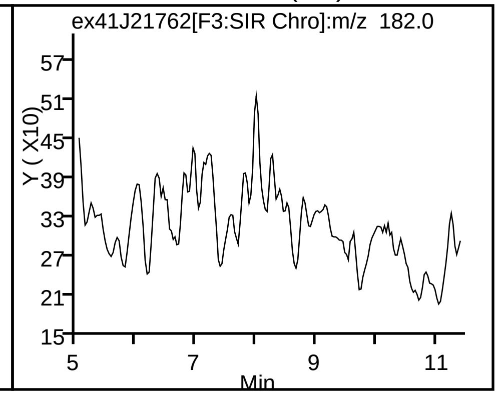
13 3,4-Dinitrotoluene (ND)



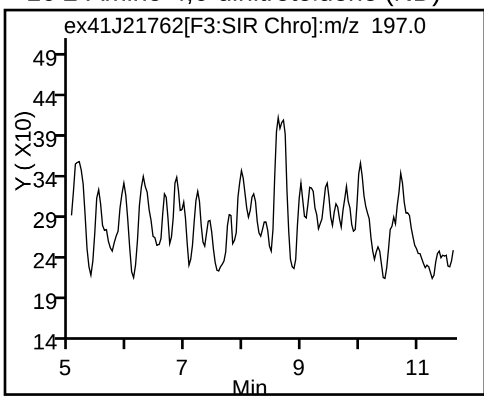
14 4-Amino-2,6-dinitrotoluene (ND)



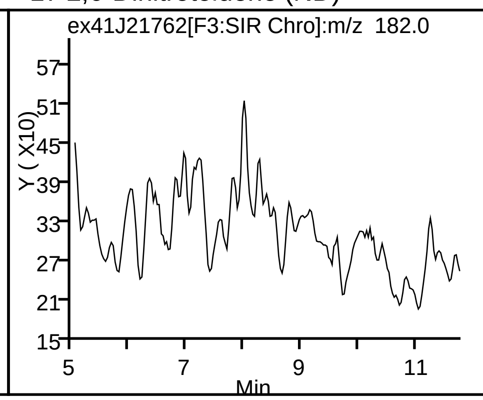
15 2,3-Dinitrotoluene (ND)



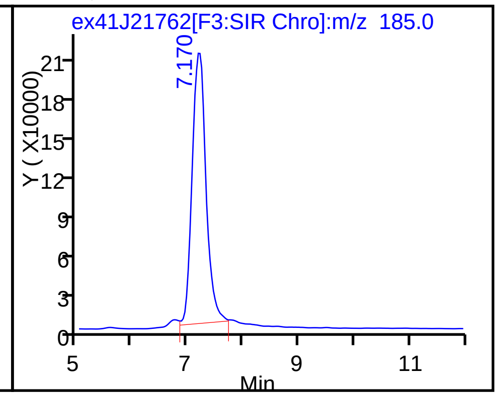
16 2-Amino-4,6-dinitrotoluene (ND)



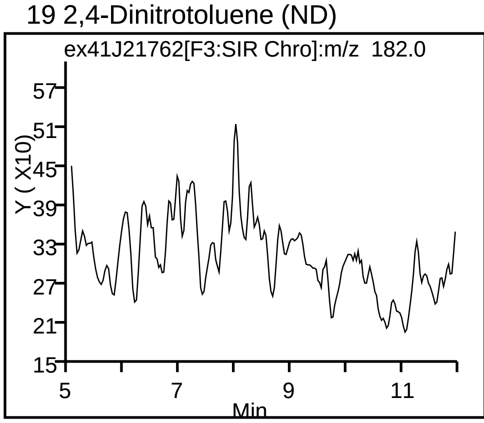
17 2,6-Dinitrotoluene (ND)



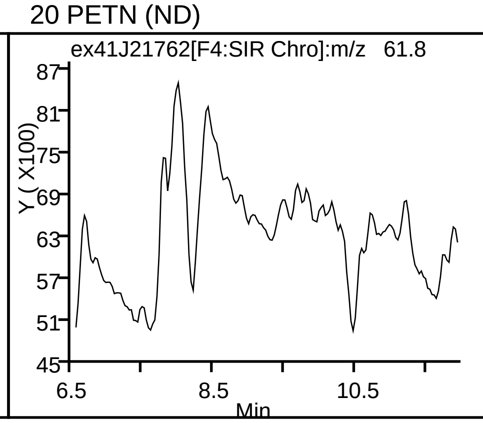
* 18 2,4-dinitrotoluene-d3



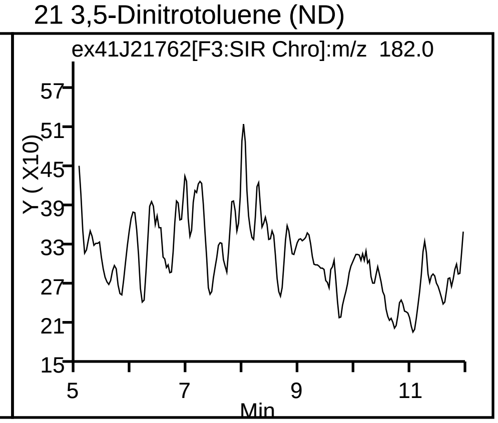
19 2,4-Dinitrotoluene (ND)



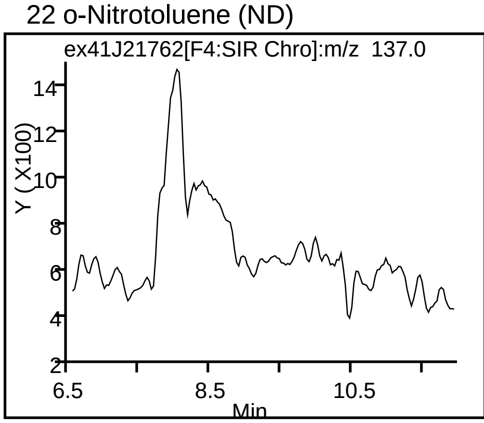
20 PETN (ND)



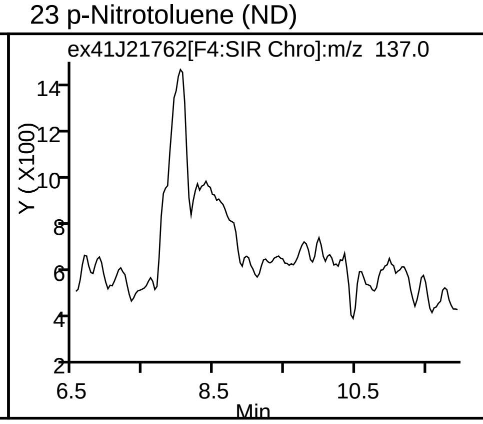
21 3,5-Dinitrotoluene (ND)



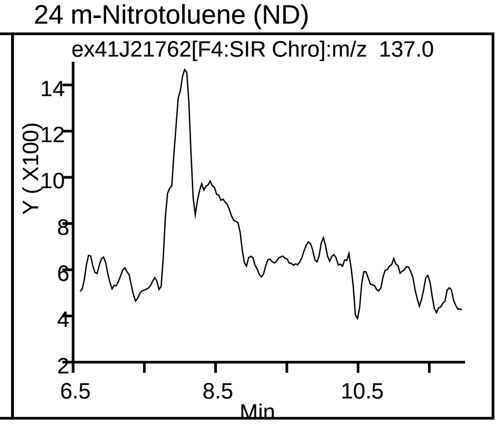
22 o-Nitrotoluene (ND)



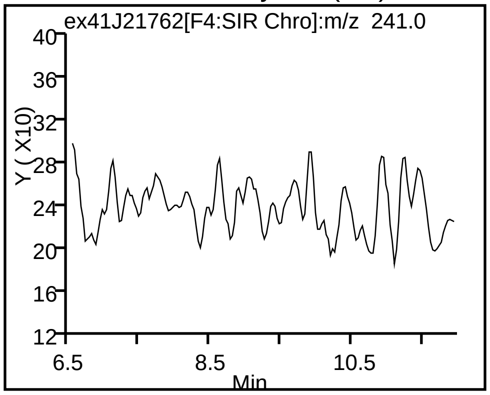
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP25 SB048   Lab Sample ID: 280-21902-39

Matrix: Solid   Lab File ID: ex41J21763.d

Analysis Method: 8321B   Date Collected: 10/18/2011 13:25

Extraction Method: 8330B   Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.65(g)   Date Analyzed: 11/03/2011 14:47

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.094	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.023	U	0.094	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.094	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.023	U	0.094	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.094	0.023	0.010
2691-41-0	HMX	0.012	U	0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.094	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.094	0.012	0.0099
78-11-5	PETN	0.012	U	0.094	0.012	0.0048
121-82-4	RDX	0.012	U	0.094	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.094	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21763.d		
Lims ID:	280-21902-B-39-B	Client ID:	SB048
Inject. Date:	03-Nov-2011 14:47:22	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-39-B 280-0002711-014		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	96
Lims Batch ID:	94610	Lims Sample ID:	14
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:37	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		664068	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		1942576	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1423533	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	512983	72.9			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4281979	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										1
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										1
4	137.0		8.162							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

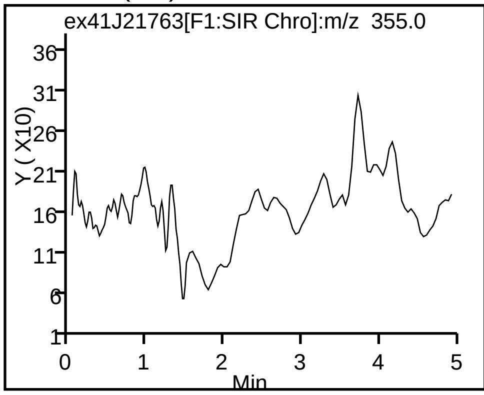
QC Flag Legend

Processing Flags
1 - Missing Peaks

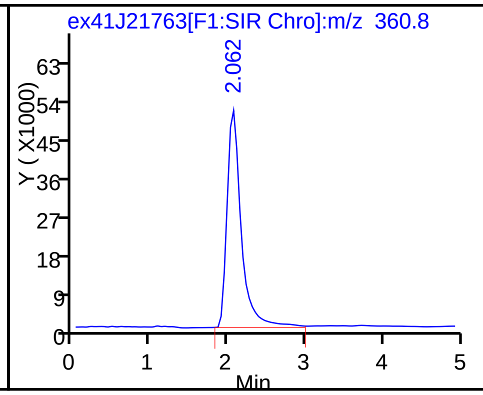
Report Date: 04-Nov-2011 06:46:40 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21763.d

Injection Date:	03-Nov-2011 14:47:22	Limit Group:	LC - 8321A Expl
Client ID:	SB048	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	14
Operator ID:		Injection Vol:	40.00 ul

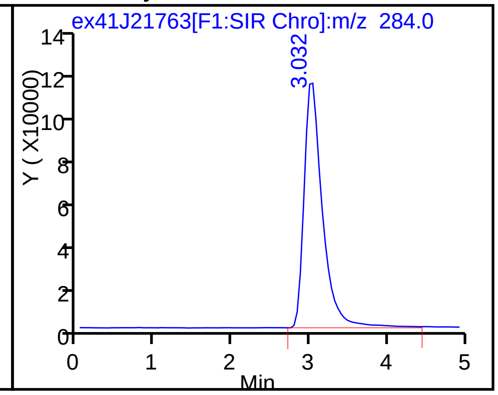
2 HMX (ND)



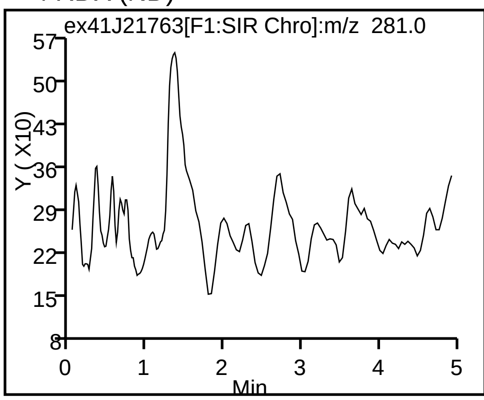
* 1 HMX-13C4



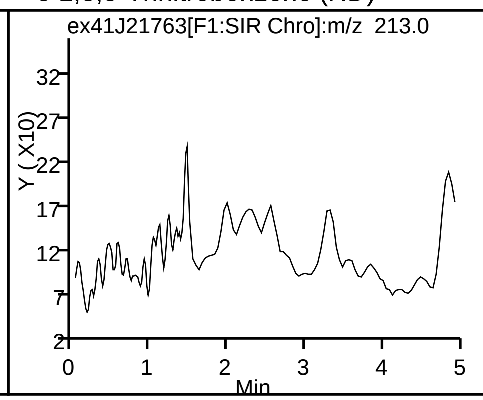
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



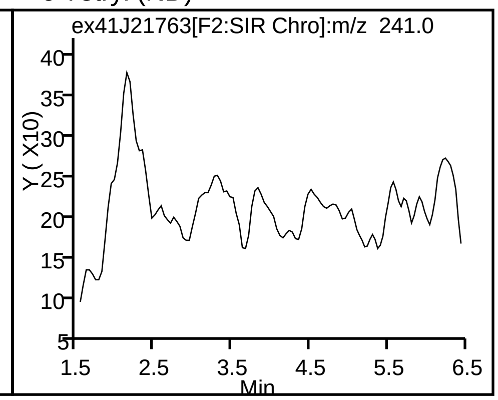
4 RDX (ND)



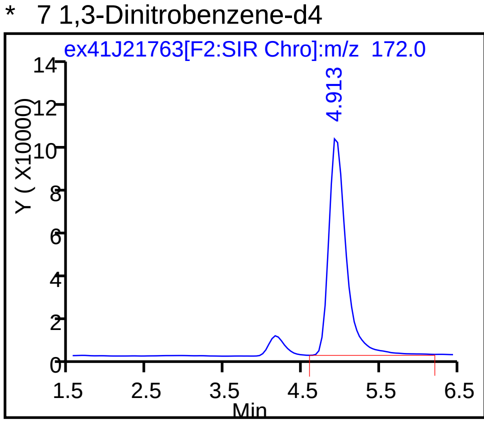
5 1,3,5-Trinitrobenzene (ND)



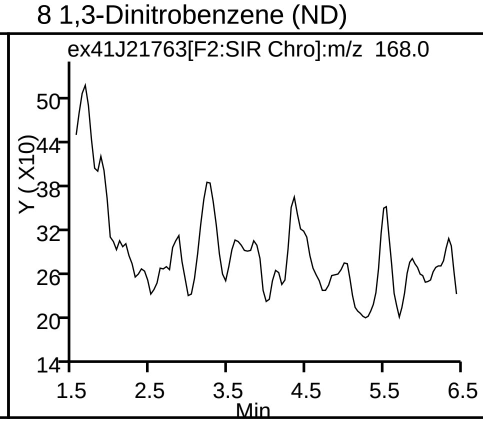
6 Tetryl (ND)



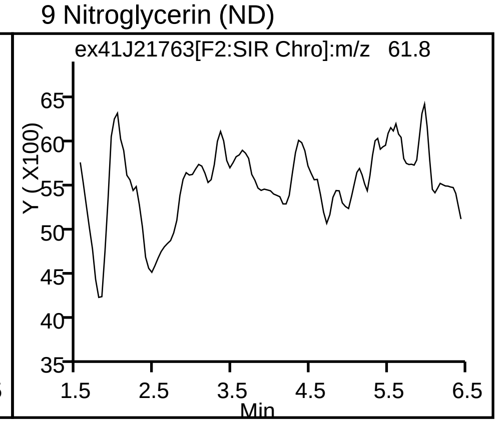
* 7 1,3-Dinitrobenzene-d4



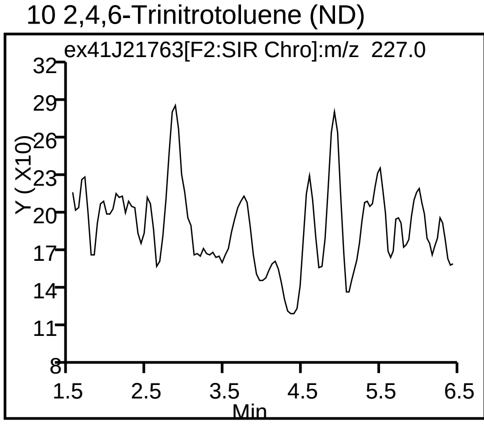
8 1,3-Dinitrobenzene (ND)



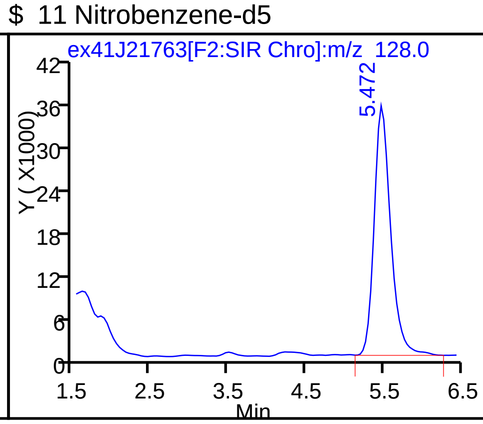
9 Nitroglycerin (ND)



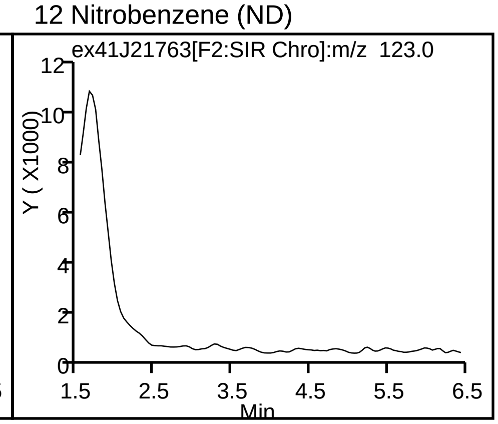
10 2,4,6-Trinitrotoluene (ND)



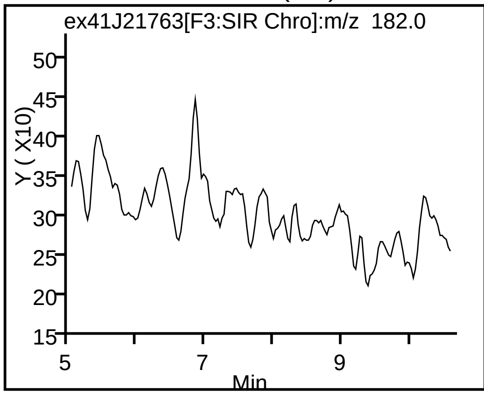
$ 11 Nitrobenzene-d5



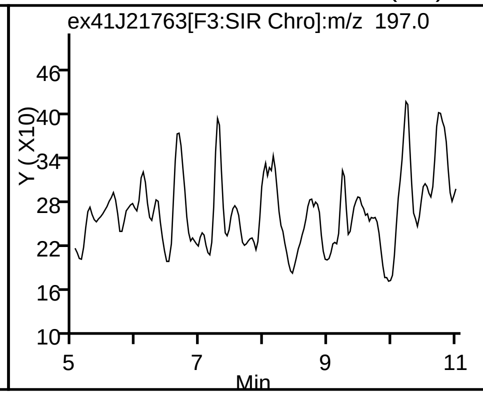
12 Nitrobenzene (ND)



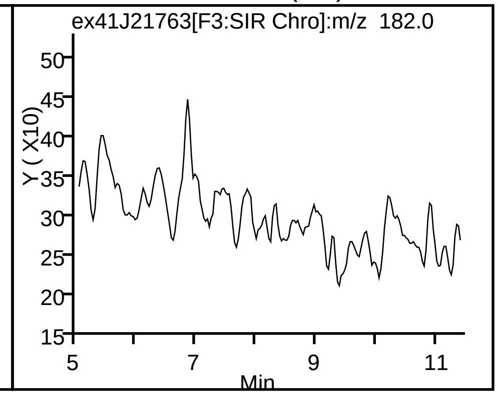
13 3,4-Dinitrotoluene (ND)



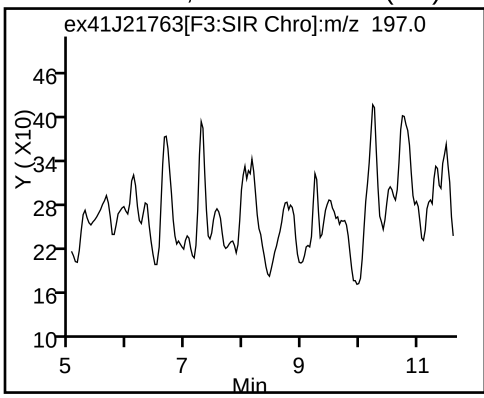
14 4-Amino-2,6-dinitrotoluene (ND)



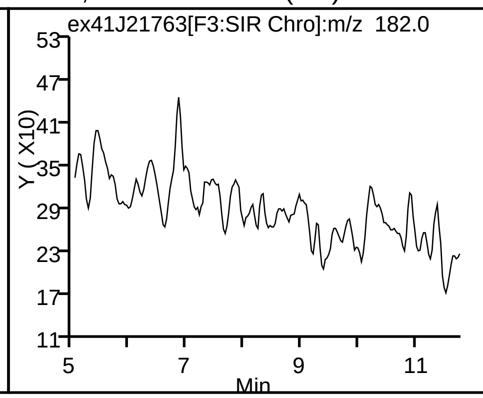
15 2,3-Dinitrotoluene (ND)



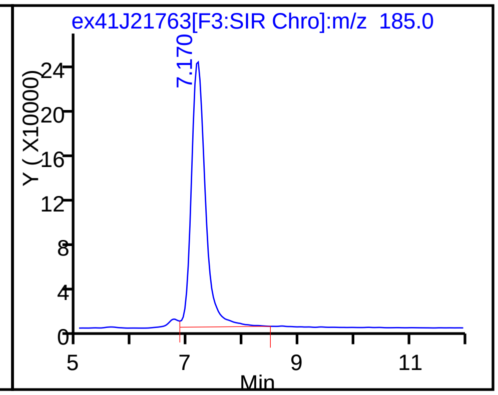
16 2-Amino-4,6-dinitrotoluene (ND)



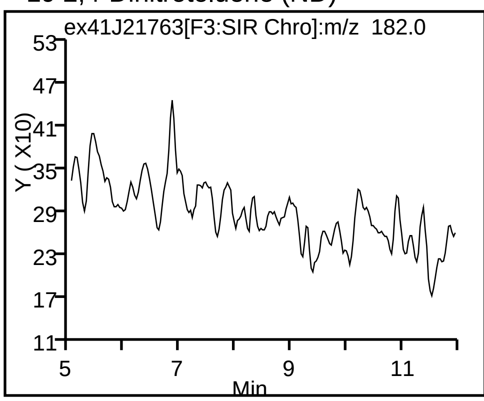
17 2,6-Dinitrotoluene (ND)



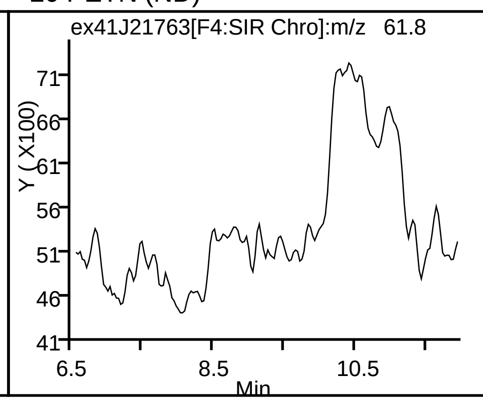
* 18 2,4-dinitrotoluene-d3



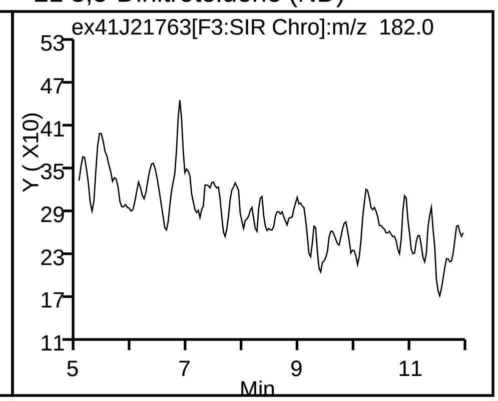
19 2,4-Dinitrotoluene (ND)



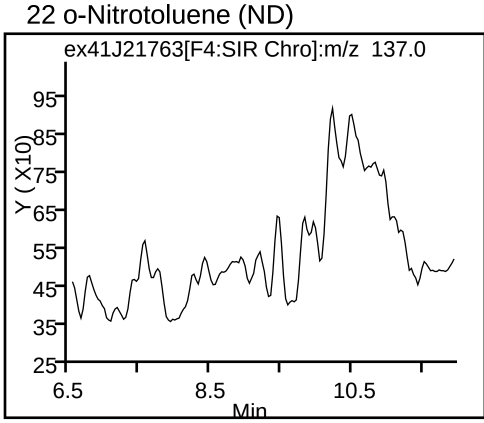
20 PETN (ND)



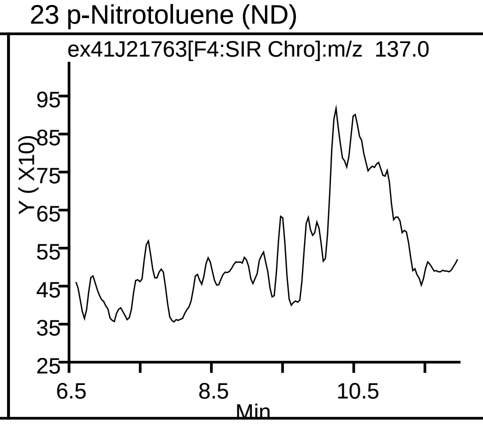
21 3,5-Dinitrotoluene (ND)



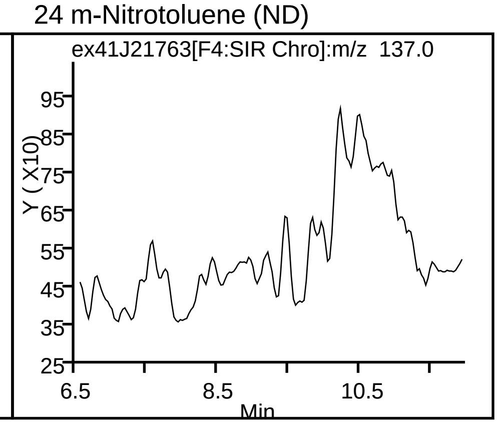
22 o-Nitrotoluene (ND)



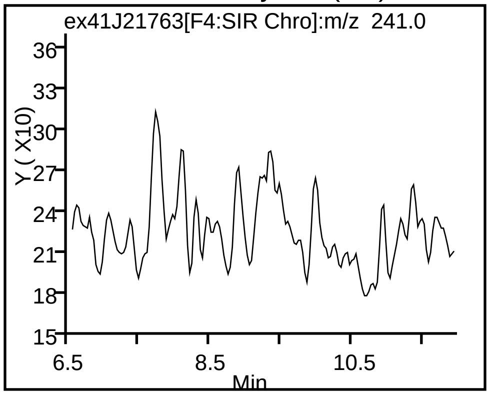
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP25 SB049 | Lab Sample ID: 280-21902-40

Matrix: Solid | Lab File ID: ex41J21764.d

Analysis Method: 8321B | Date Collected: 10/18/2011 13:35

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.39(g) | Date Analyzed: 11/03/2011 15:00

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0050
121-82-4	RDX	0.012	U	0.096	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21764.d		
Lims ID:	280-21902-B-40-B	Client ID:	SB049
Inject. Date:	03-Nov-2011 15:00:56	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-40-B 280-0002711-015		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	97
Lims Batch ID:	94610	Lims Sample ID:	15
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:37	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:33:52

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		550050	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		1931445	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1376039	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	536476	78.9			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4601819	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										1
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										1
4	137.0		8.162							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

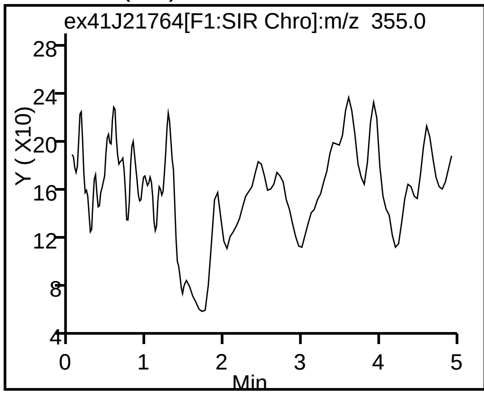
QC Flag Legend

Processing Flags
1 - Missing Peaks

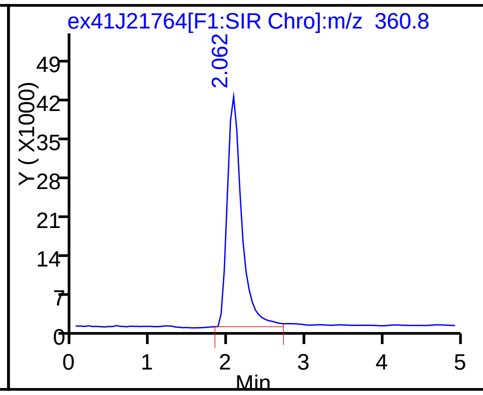
Report Date: 04-Nov-2011 06:46:41 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21764.d

Injection Date:	03-Nov-2011 15:00:56	Limit Group:	LC - 8321A Expl
Client ID:	SB049	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	15
Operator ID:		Injection Vol:	40.00 ul

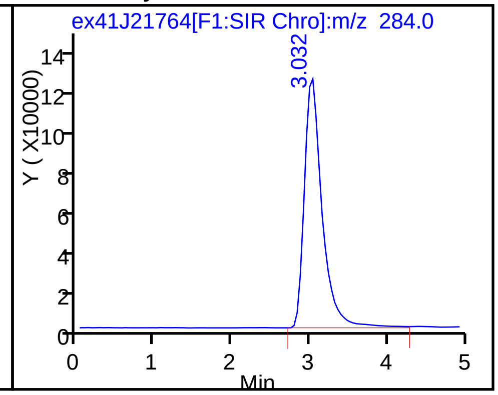
2 HMX (ND)



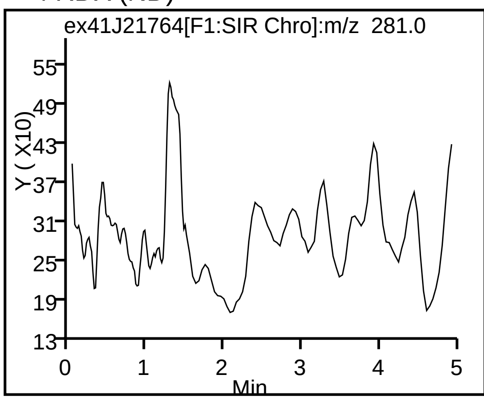
* 1 HMX-13C4



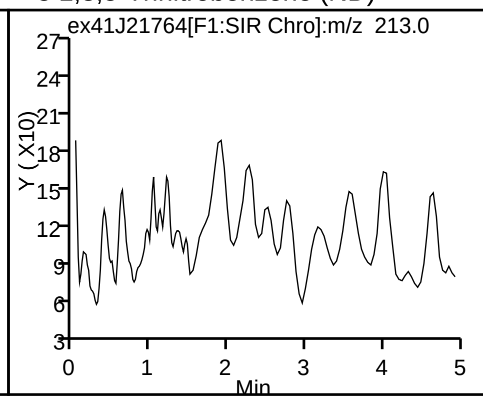
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



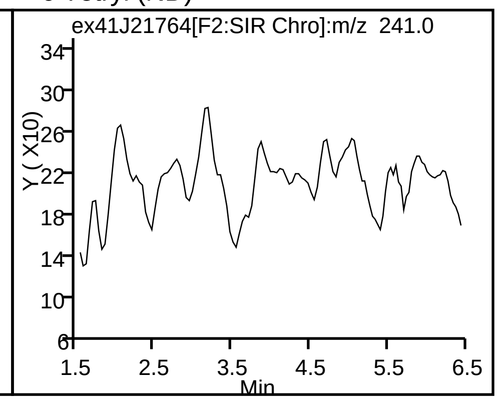
4 RDX (ND)



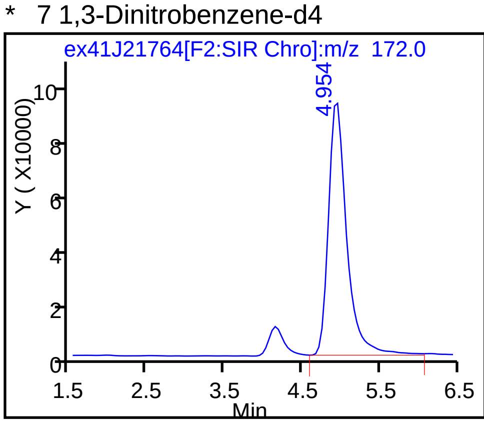
5 1,3,5-Trinitrobenzene (ND)



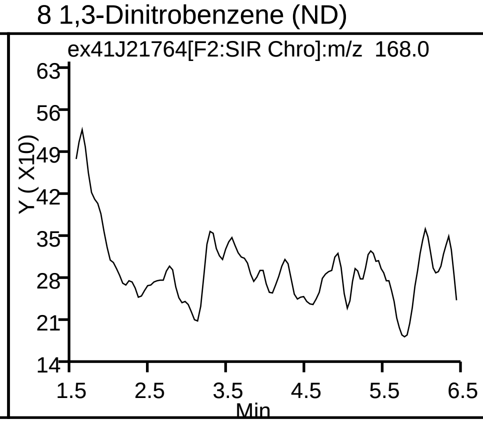
6 Tetryl (ND)



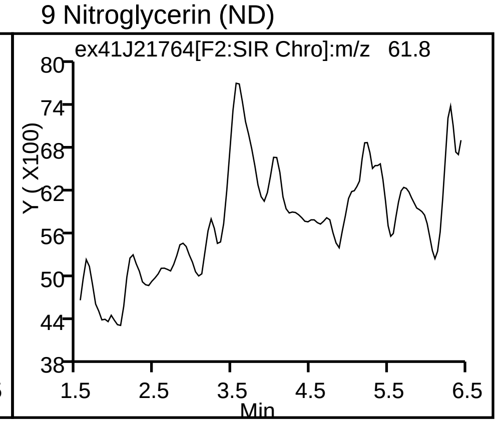
* 7 1,3-Dinitrobenzene-d4



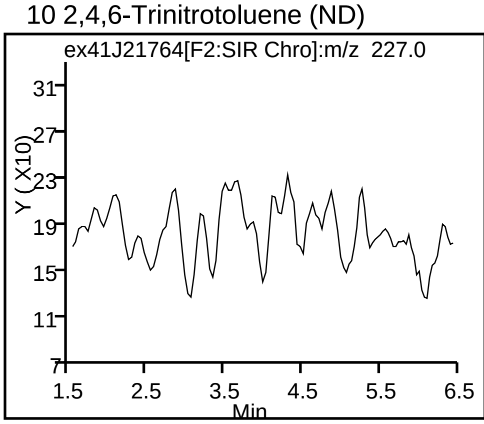
8 1,3-Dinitrobenzene (ND)



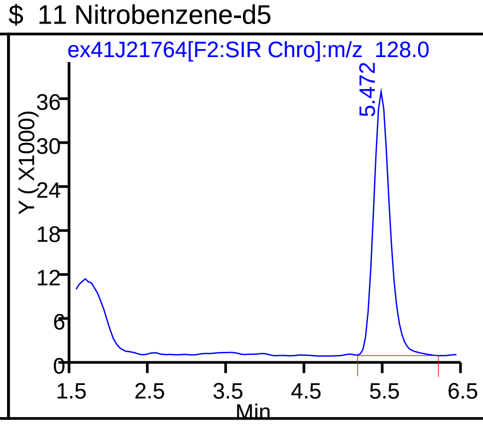
9 Nitroglycerin (ND)



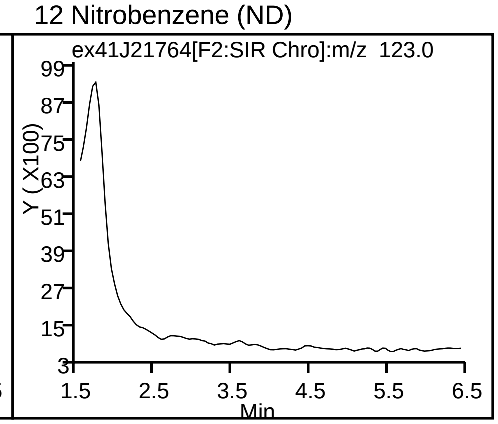
10 2,4,6-Trinitrotoluene (ND)



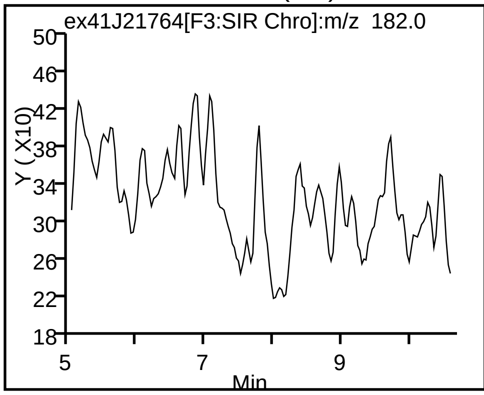
$ 11 Nitrobenzene-d5



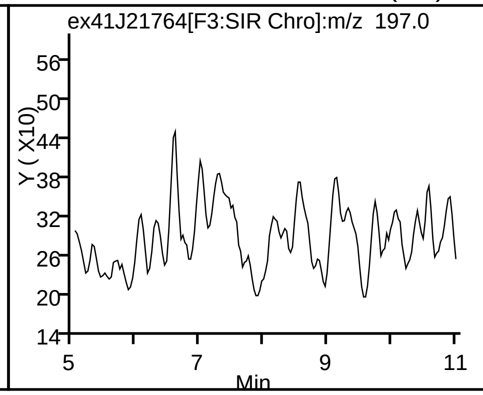
12 Nitrobenzene (ND)



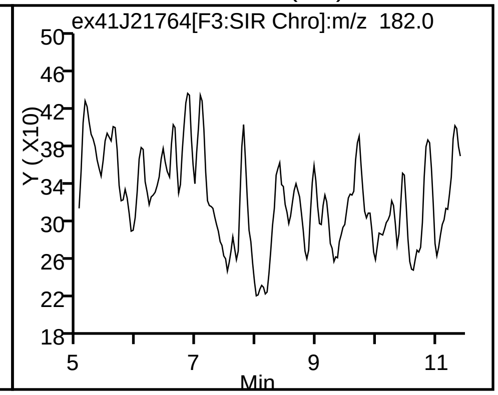
13 3,4-Dinitrotoluene (ND)



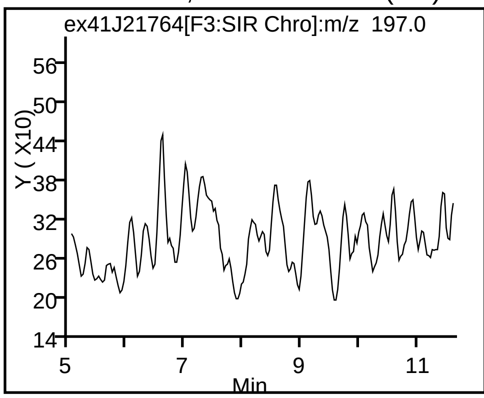
14 4-Amino-2,6-dinitrotoluene (ND)



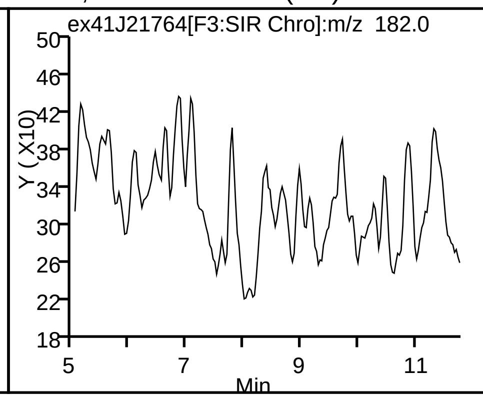
15 2,3-Dinitrotoluene (ND)



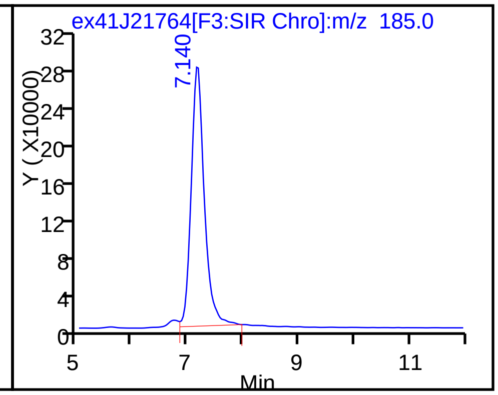
16 2-Amino-4,6-dinitrotoluene (ND)



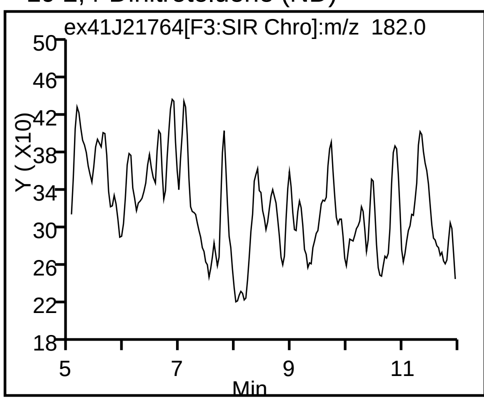
17 2,6-Dinitrotoluene (ND)



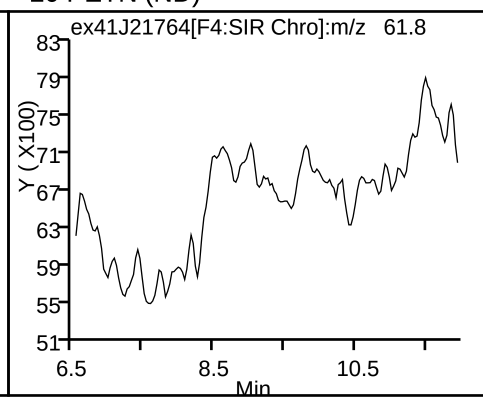
* 18 2,4-dinitrotoluene-d3



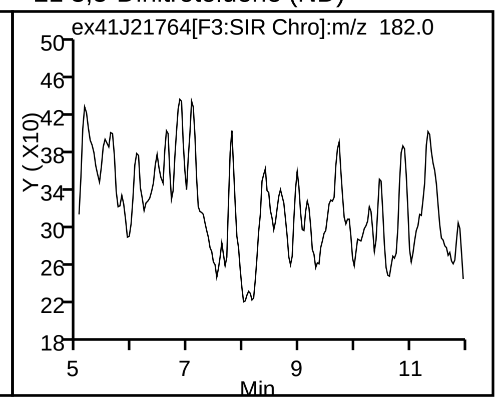
19 2,4-Dinitrotoluene (ND)



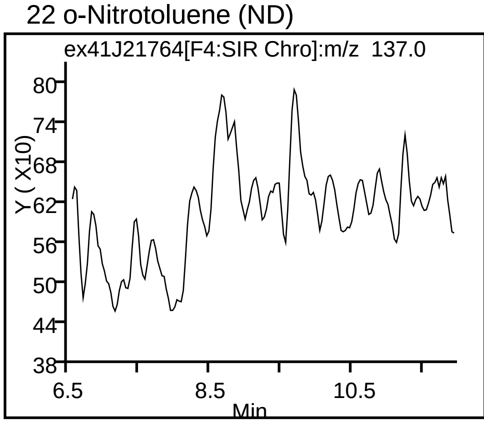
20 PETN (ND)



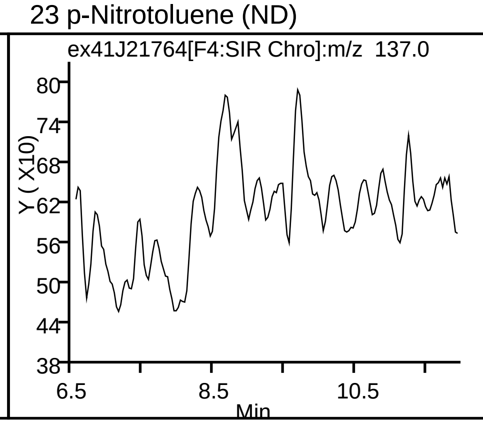
21 3,5-Dinitrotoluene (ND)



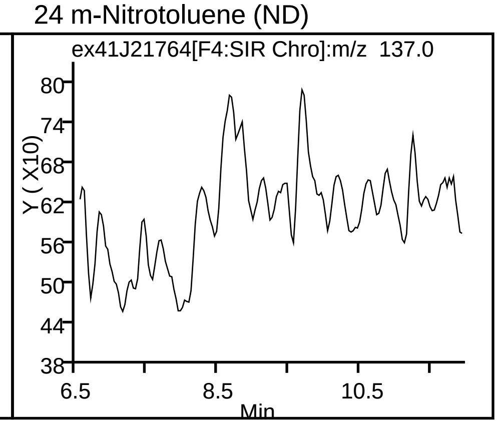
22 o-Nitrotoluene (ND)



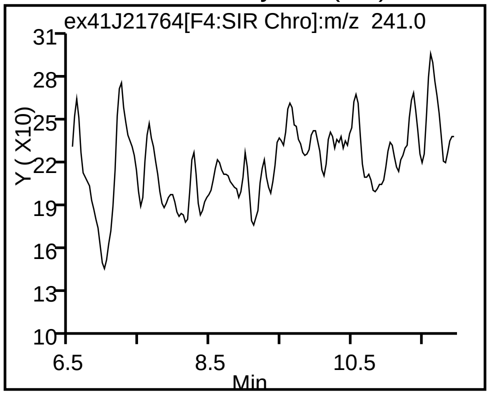
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP24 SB046

Lab Sample ID: 280-21902-41

Matrix: Solid

Lab File ID: ex41J21765.d

Analysis Method: 8321B

Date Collected: 10/18/2011 13:00

Extraction Method: 8330B

Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.43(g)

Date Analyzed: 11/03/2011 15:15

Con. Extract Vol.: 40(mL)

Dilution Factor: 1

Injection Volume: 40(uL)

GC Column: IonPac ID: 2(mm)

% Moisture:

GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610

Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21765.d		
Lims ID:	280-21902-A-41-C	Client ID:	SB046
Inject. Date:	03-Nov-2011 15:15:02	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-41-C 280-0002711-016		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	98
Lims Batch ID:	94610	Lims Sample ID:	16
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:37	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
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1	360.8	2.062	2.062	0.000		668238	250.0			
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1	284.0	3.032	2.991	0.041		2182462	250.0			
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1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
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2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1324101	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
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2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
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2	128.0	5.472	5.472	0.000	1.114	502859	76.8			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.624							
17	2,6-Dinitrotoluene									1
3	182.0		6.776							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.140	7.140	0.000		4177184	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.201							
20	PETN									
4	61.8		7.646							
21	3,5-Dinitrotoluene									1
3	182.0		7.778							
22	o-Nitrotoluene									1
4	137.0		8.162							
23	p-Nitrotoluene									1
4	137.0		8.709							
24	m-Nitrotoluene									1
4	137.0		9.377							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.227							

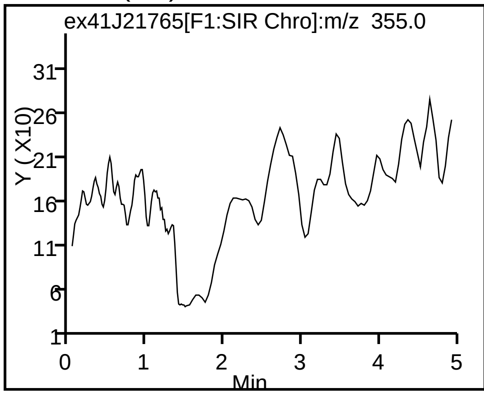
QC Flag Legend

Processing Flags
1 - Missing Peaks

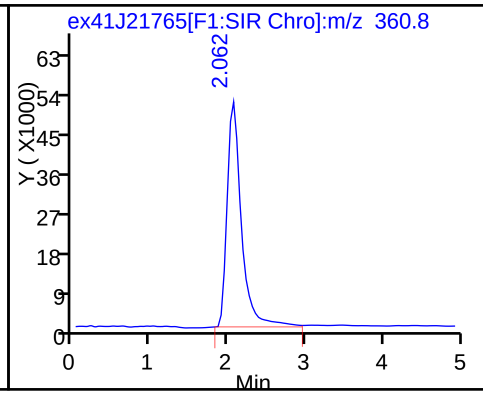
Report Date: 04-Nov-2011 06:46:41 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21765.d

Injection Date:	03-Nov-2011 15:15:02	Limit Group:	LC - 8321A Expl
Client ID:	SB046	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	16
Operator ID:		Injection Vol:	40.00 ul

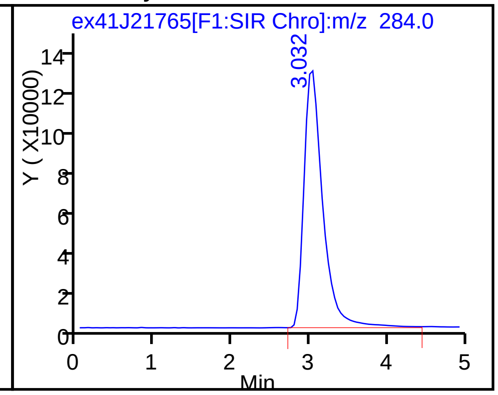
2 HMX (ND)



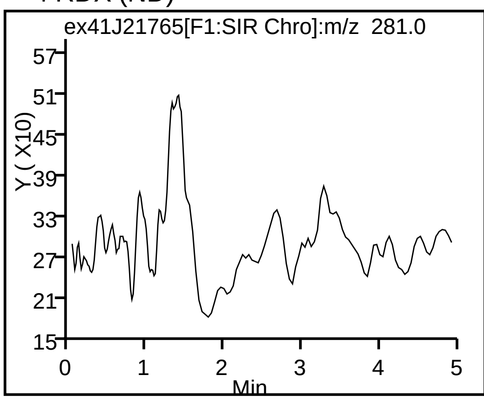
* 1 HMX-13C4



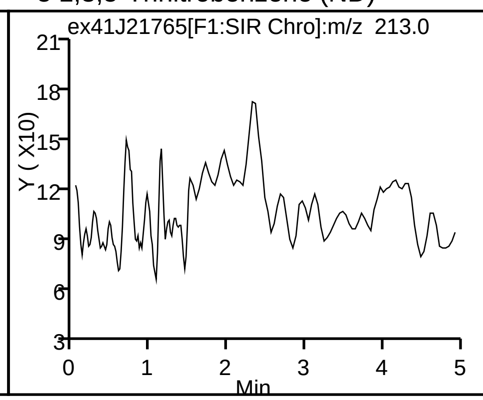
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



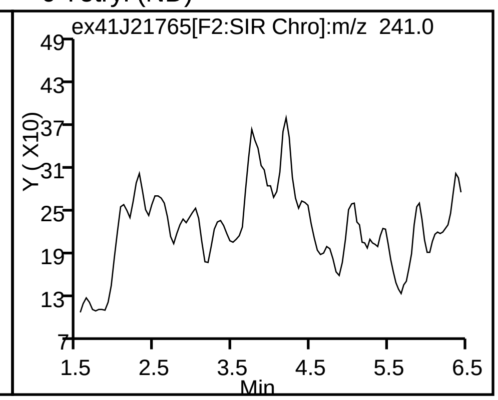
4 RDX (ND)



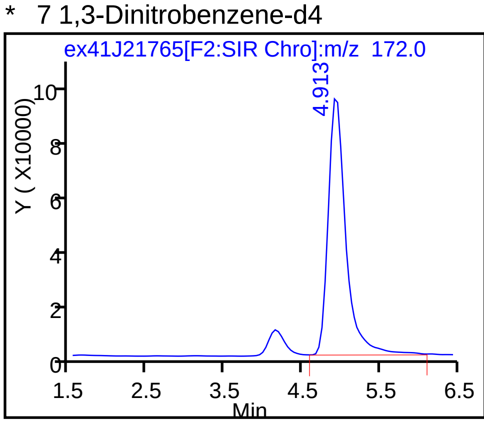
5 1,3,5-Trinitrobenzene (ND)



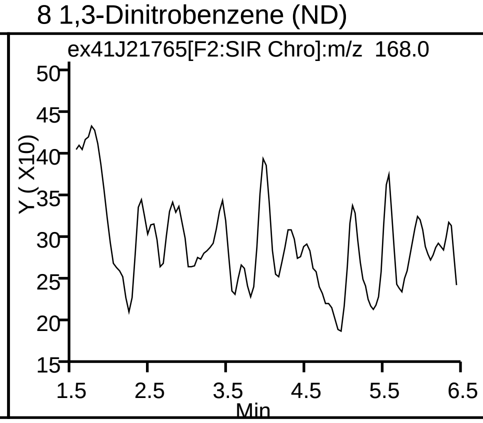
6 Tetryl (ND)



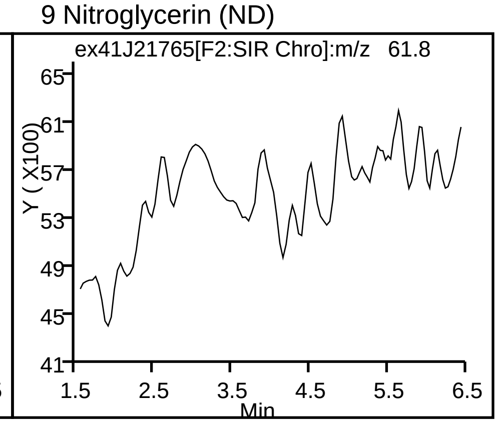
* 7 1,3-Dinitrobenzene-d4



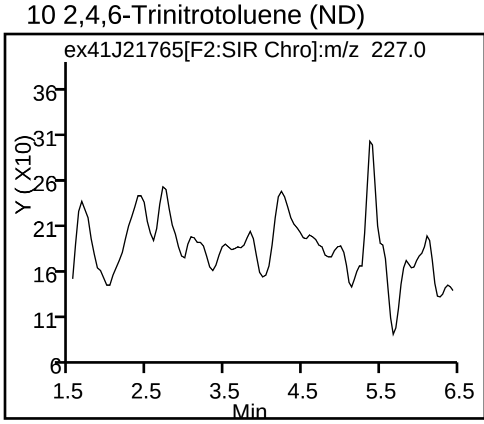
8 1,3-Dinitrobenzene (ND)



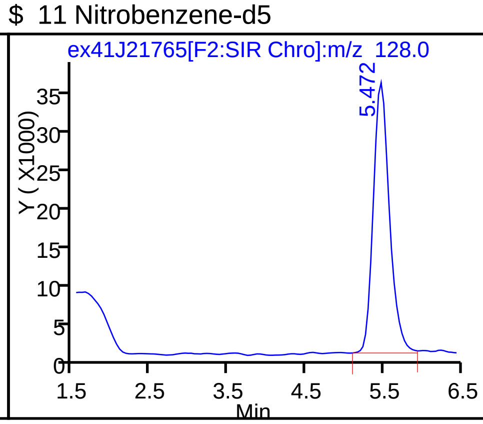
9 Nitroglycerin (ND)



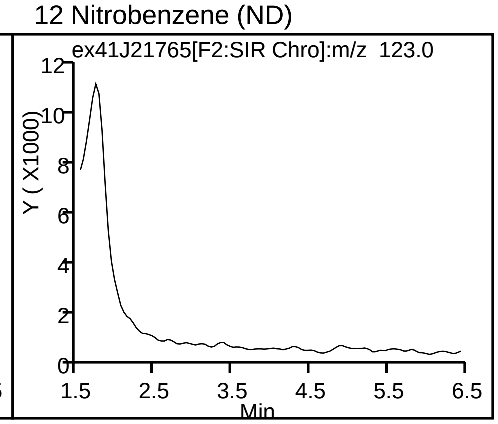
10 2,4,6-Trinitrotoluene (ND)



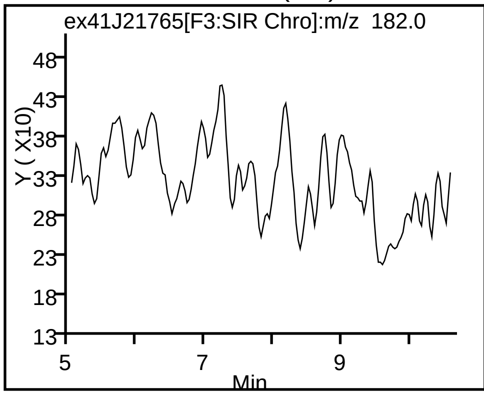
$ 11 Nitrobenzene-d5



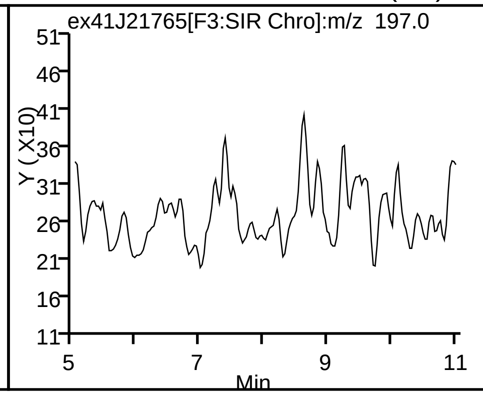
12 Nitrobenzene (ND)



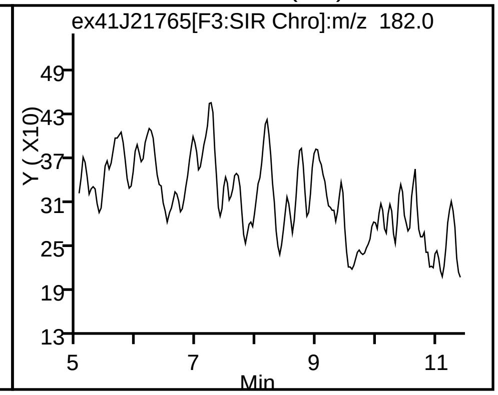
13 3,4-Dinitrotoluene (ND)



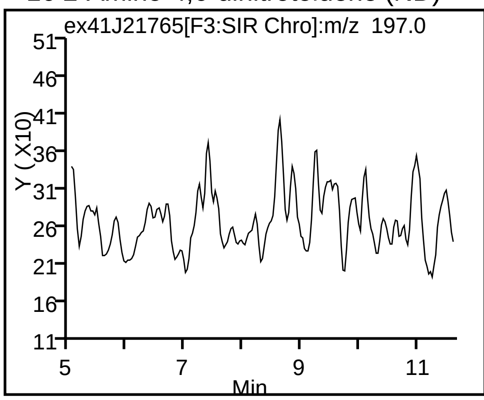
14 4-Amino-2,6-dinitrotoluene (ND)



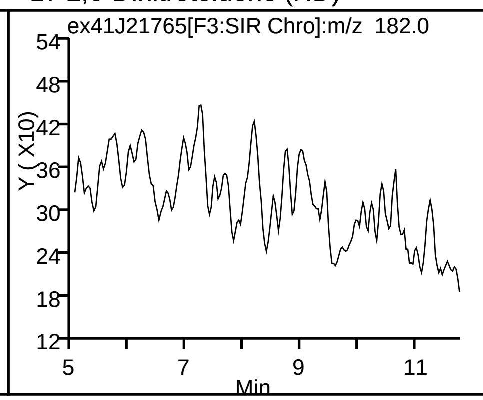
15 2,3-Dinitrotoluene (ND)



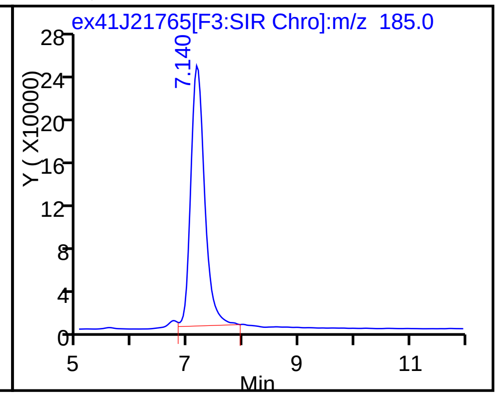
16 2-Amino-4,6-dinitrotoluene (ND)



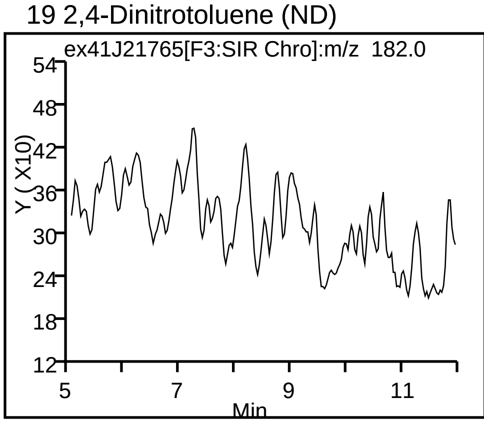
17 2,6-Dinitrotoluene (ND)



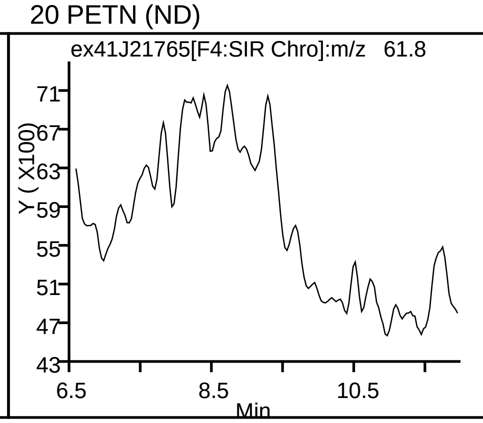
* 18 2,4-dinitrotoluene-d3



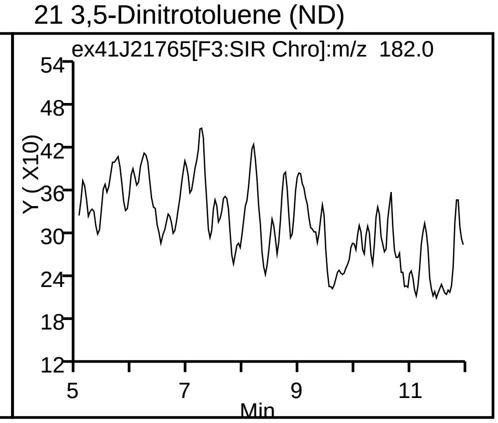
19 2,4-Dinitrotoluene (ND)



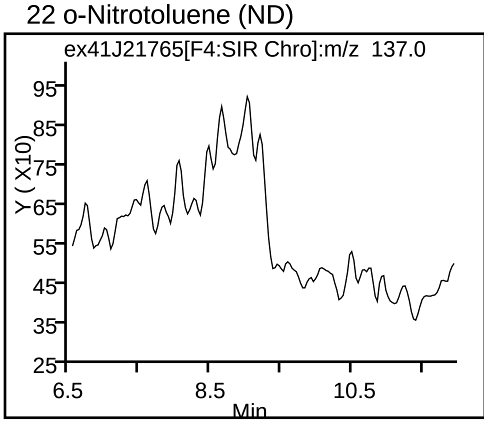
20 PETN (ND)



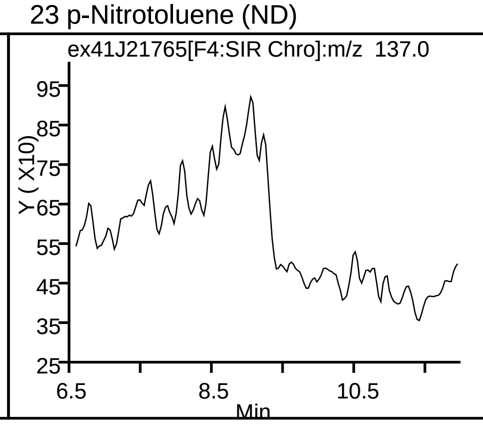
21 3,5-Dinitrotoluene (ND)



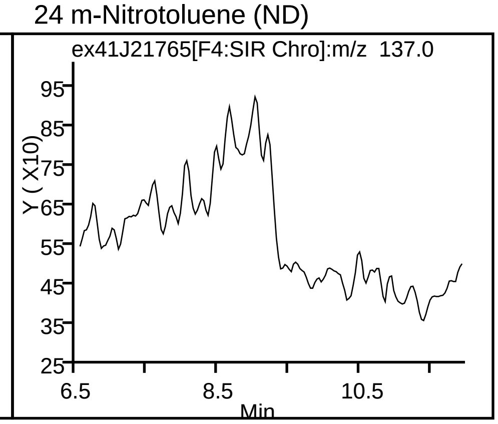
22 o-Nitrotoluene (ND)



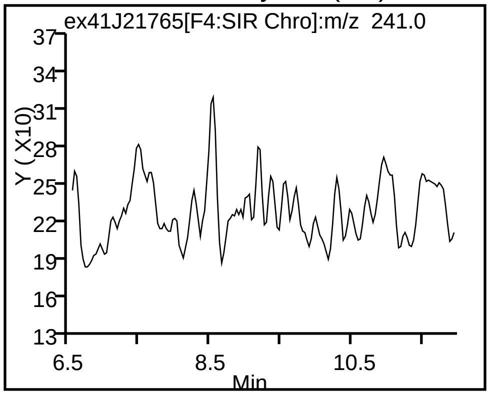
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP24 SB047 | Lab Sample ID: 280-21902-42

Matrix: Solid | Lab File ID: ex41J21766.d

Analysis Method: 8321B | Date Collected: 10/18/2011 13:15

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.49(g) | Date Analyzed: 11/03/2011 15:28

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21766.d		
Lims ID:	280-21902-A-42-C	Client ID:	SB047
Inject. Date:	03-Nov-2011 15:28:36	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-42-C 280-0002711-017		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	99
Lims Batch ID:	94610	Lims Sample ID:	17
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:37	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 04-Nov-2011 06:34:07

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		632586	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2148410	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1475622	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	576161	79.0			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4240478	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										1
4	137.0		8.162							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

QC Flag Legend

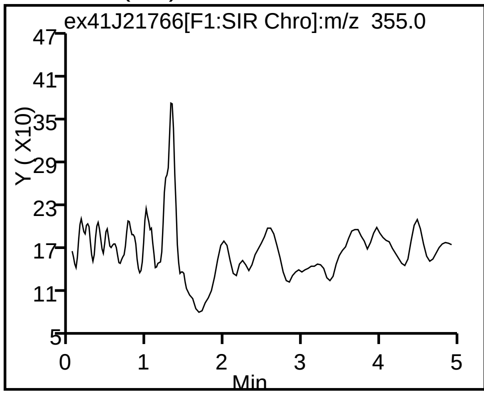
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:46:42 Chrom Revision: 1.2 13-Jul-2011 10:43:06

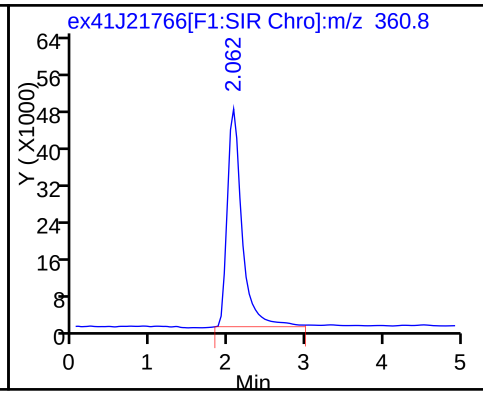
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21766.d

Injection Date:	03-Nov-2011 15:28:36	Limit Group:	LC - 8321A Expl
Client ID:	SB047	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	17
Operator ID:		Injection Vol:	40.00 ul

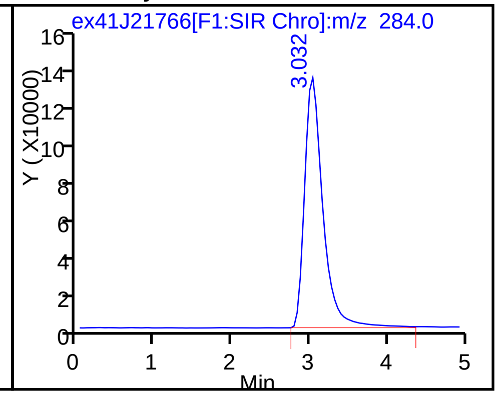
2 HMX (ND)



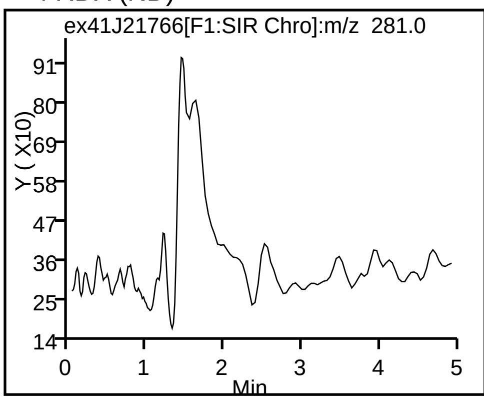
* 1 HMX-13C4



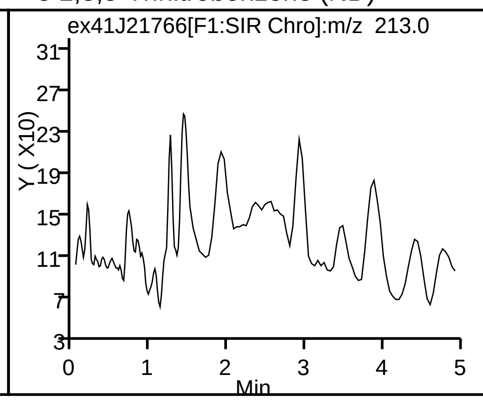
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



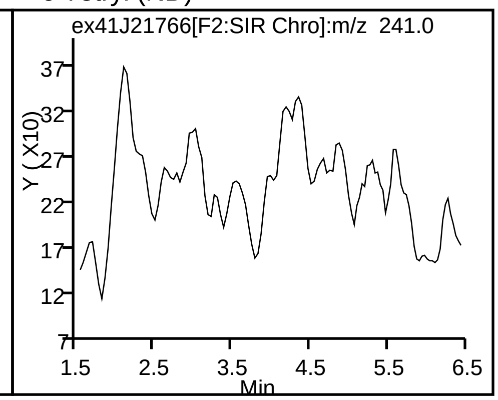
4 RDX (ND)



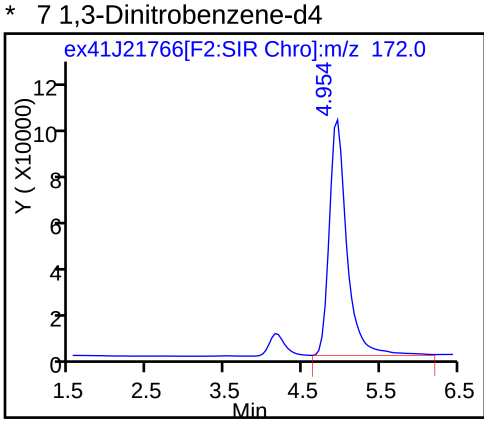
5 1,3,5-Trinitrobenzene (ND)



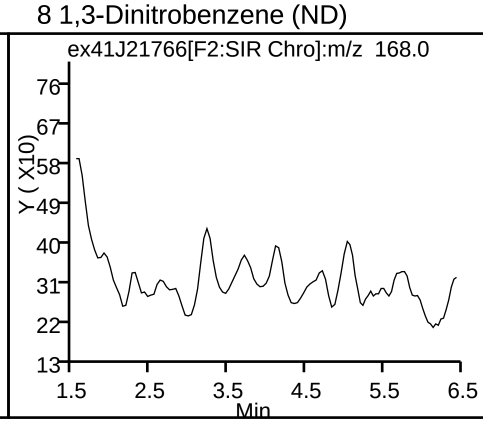
6 Tetryl (ND)



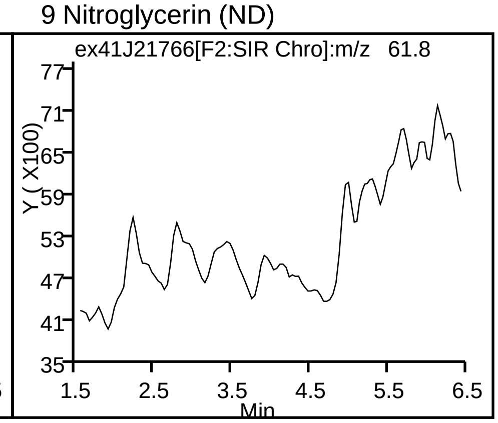
* 7 1,3-Dinitrobenzene-d4



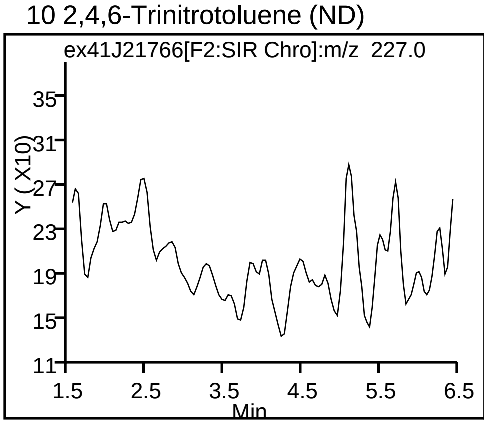
8 1,3-Dinitrobenzene (ND)



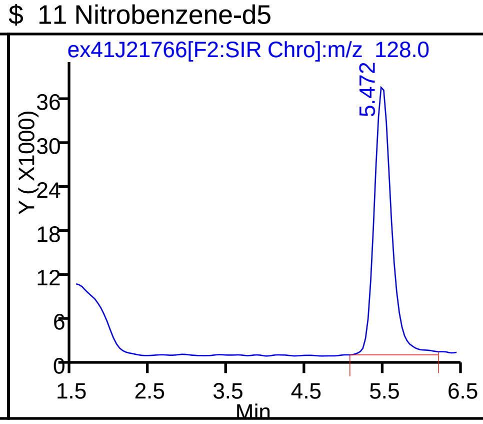
9 Nitroglycerin (ND)



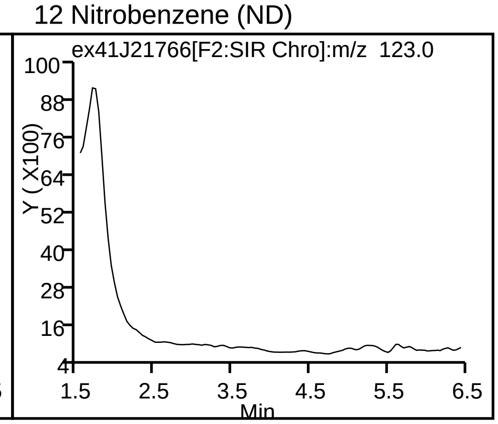
10 2,4,6-Trinitrotoluene (ND)



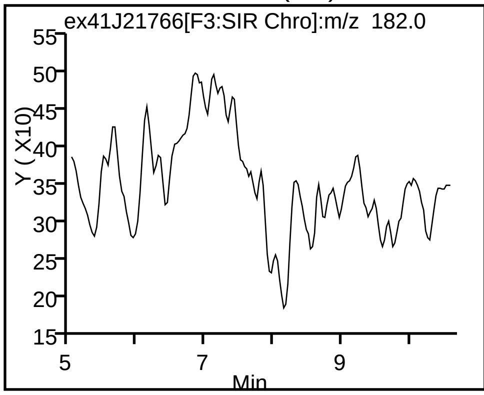
$ 11 Nitrobenzene-d5



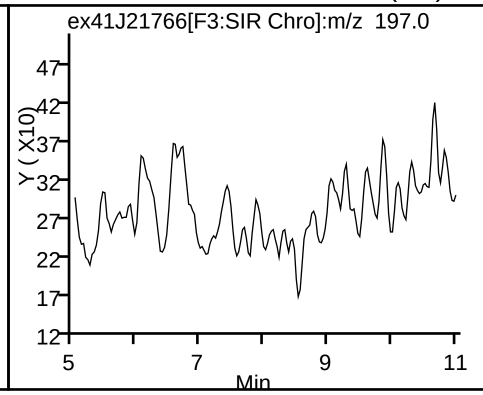
12 Nitrobenzene (ND)



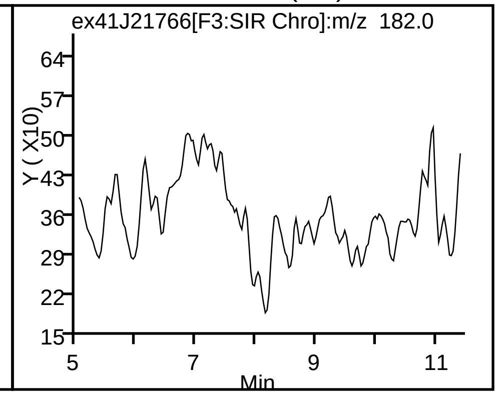
13 3,4-Dinitrotoluene (ND)



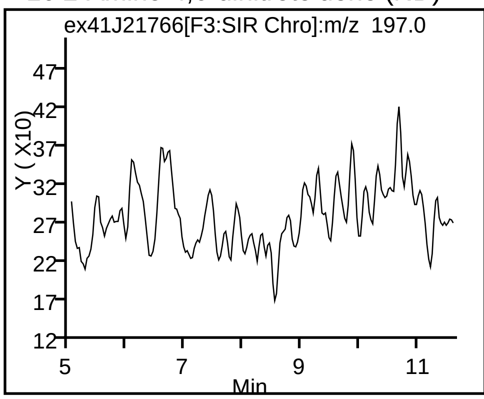
14 4-Amino-2,6-dinitrotoluene (ND)



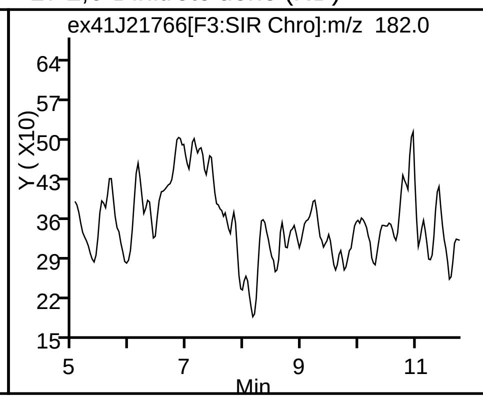
15 2,3-Dinitrotoluene (ND)



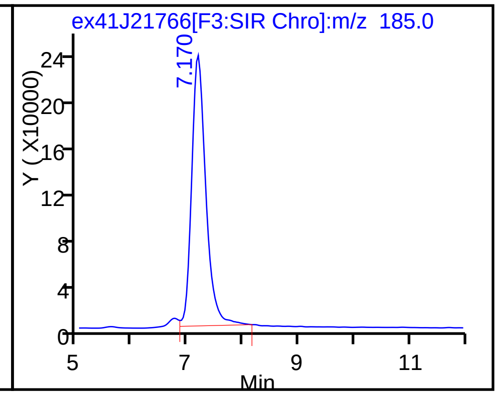
16 2-Amino-4,6-dinitrotoluene (ND)



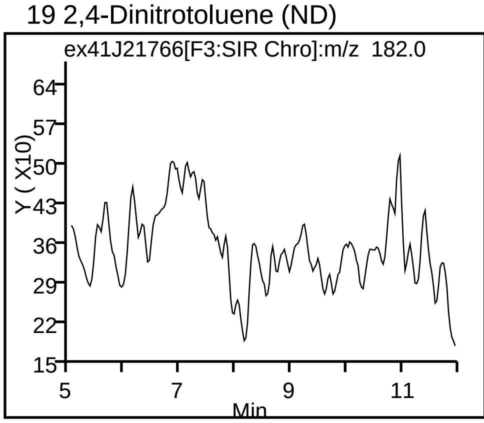
17 2,6-Dinitrotoluene (ND)



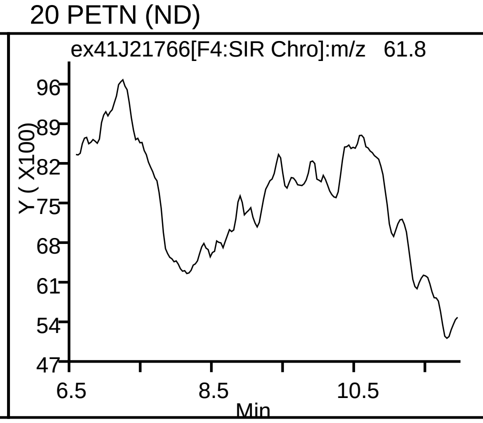
* 18 2,4-dinitrotoluene-d3



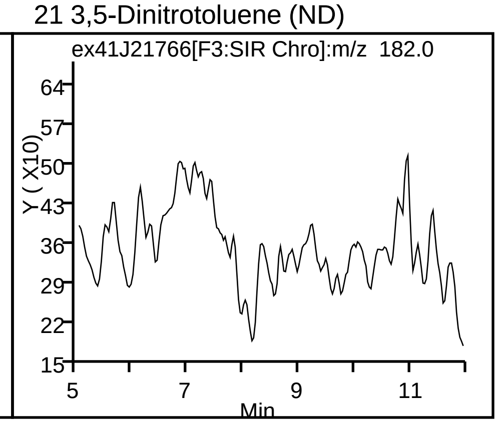
19 2,4-Dinitrotoluene (ND)



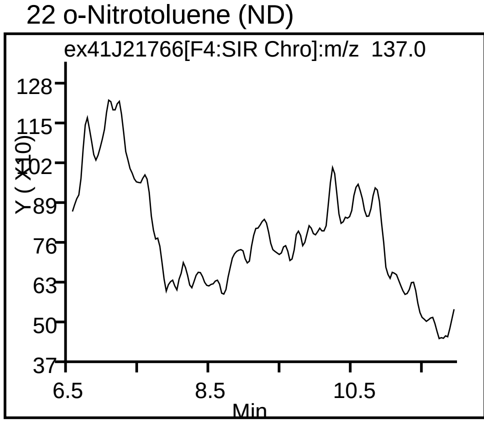
20 PETN (ND)



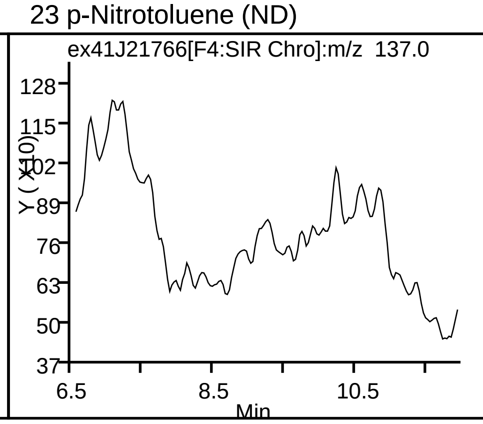
21 3,5-Dinitrotoluene (ND)



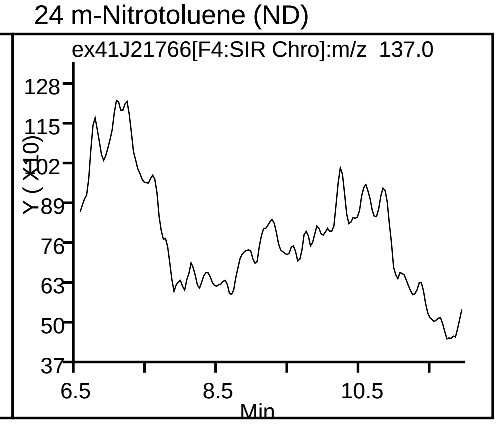
22 o-Nitrotoluene (ND)



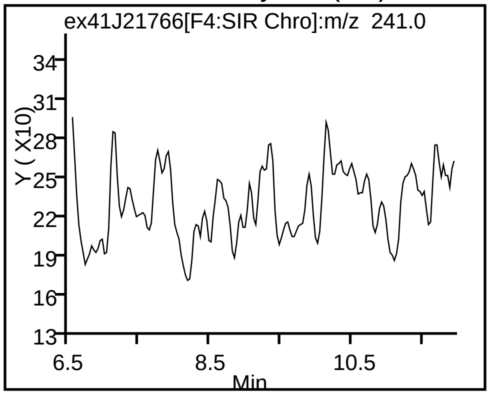
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP26 SB050   Lab Sample ID: 280-21902-43

Matrix: Solid   Lab File ID: ex41J21767.d

Analysis Method: 8321B   Date Collected: 10/18/2011 12:35

Extraction Method: 8330B   Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.91(g)   Date Analyzed: 11/03/2011 15:42

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.092	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.011	U	0.092	0.011	0.0065
118-96-7	2,4,6-Trinitrotoluene	0.011	U	0.092	0.011	0.0046
121-14-2	2,4-Dinitrotoluene	0.011	U	0.092	0.011	0.0075
606-20-2	2,6-Dinitrotoluene	0.023	U	0.092	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.092	0.023	0.011
88-72-2	2-Nitrotoluene	0.011	U	0.092	0.011	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.092	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.011	U	0.092	0.011	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.092	0.023	0.010
2691-41-0	HMX	0.011	U	0.092	0.011	0.0053
98-95-3	Nitrobenzene	0.011	U	0.092	0.011	0.0099
55-63-0	Nitroglycerin	0.011	U	0.092	0.011	0.0096
78-11-5	PETN	0.011	U	0.092	0.011	0.0047
121-82-4	RDX	0.011	U	0.092	0.011	0.0040
479-45-8	Tetryl	0.011	U	0.092	0.011	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21767.d		
Lims ID:	280-21902-B-43-B	Client ID:	SB050
Inject. Date:	03-Nov-2011 15:42:10	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-43-B 280-0002711-018		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	100
Lims Batch ID:	94610	Lims Sample ID:	18
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:37	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:34:18

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		634014	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2052909	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1367507	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	519905	76.9			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		3910729	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										1
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										1
4	137.0		8.162							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

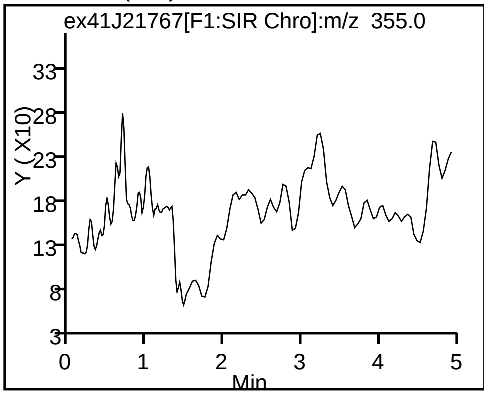
QC Flag Legend

Processing Flags
1 - Missing Peaks

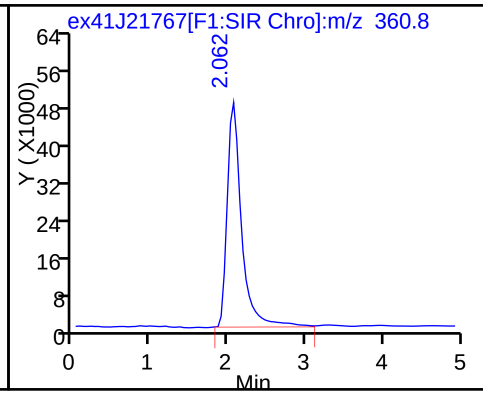
Report Date: 04-Nov-2011 06:46:43   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21767.d

Injection Date:	03-Nov-2011 15:42:10	Limit Group:	LC - 8321A Expl
Client ID:	SB050	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	18
Operator ID:		Injection Vol:	40.00 ul

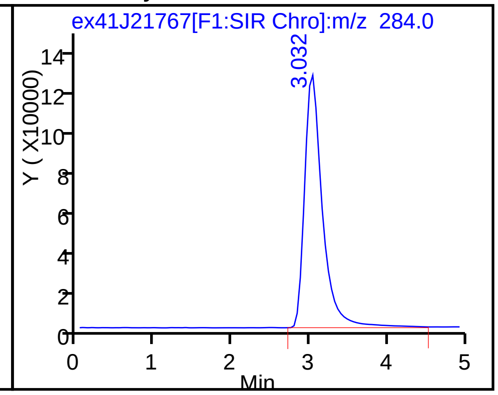
2 HMX (ND)



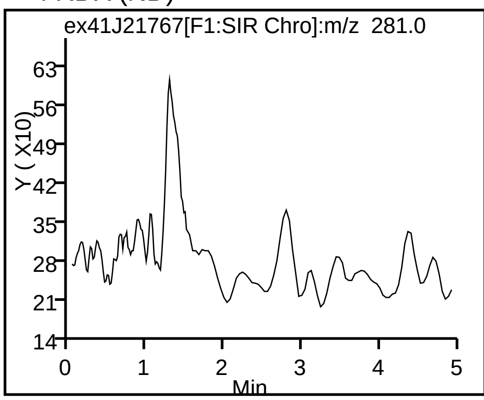
* 1 HMX-13C4



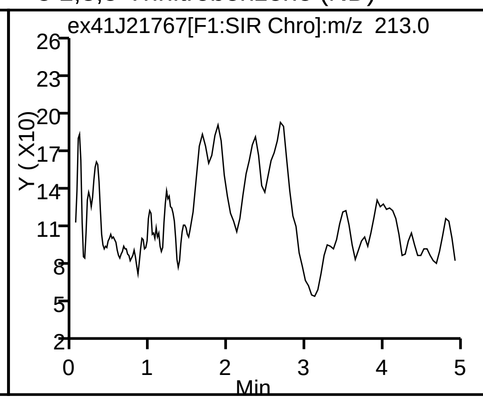
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



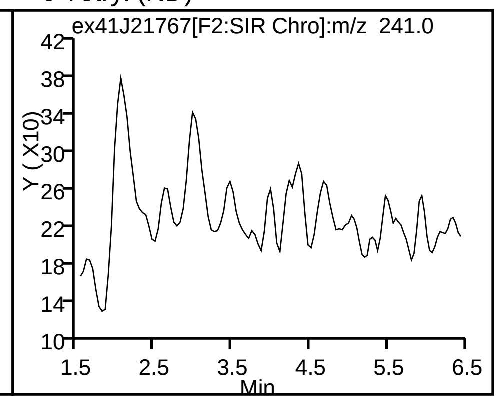
4 RDX (ND)



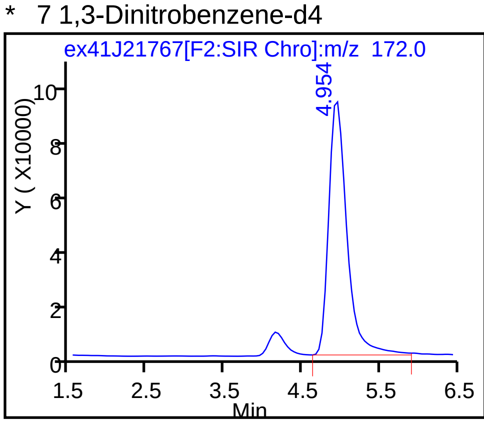
5 1,3,5-Trinitrobenzene (ND)



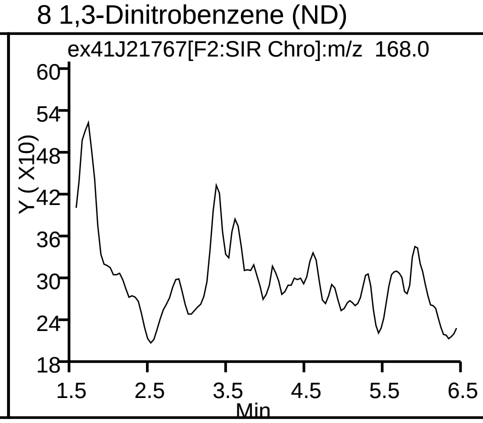
6 Tetryl (ND)



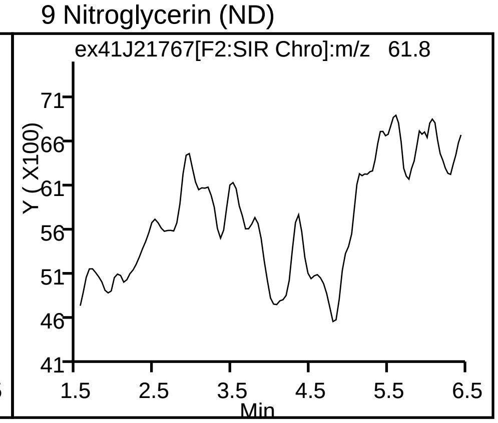
* 7 1,3-Dinitrobenzene-d4



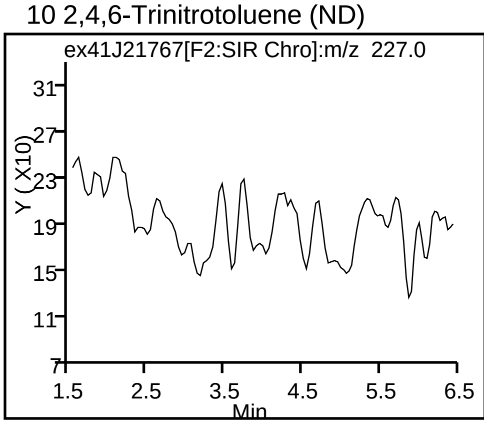
8 1,3-Dinitrobenzene (ND)



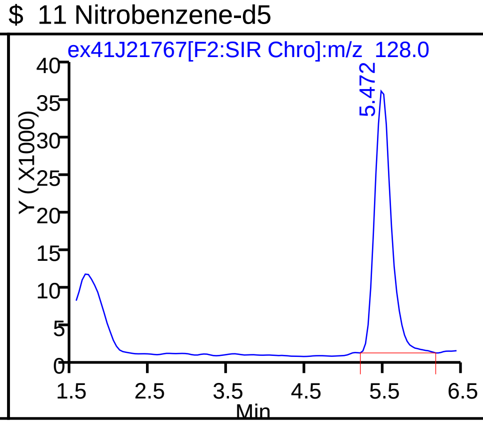
9 Nitroglycerin (ND)



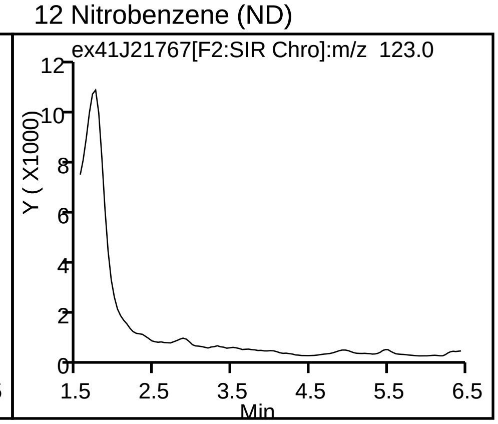
10 2,4,6-Trinitrotoluene (ND)



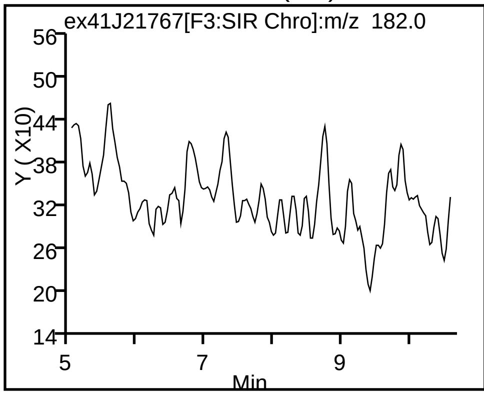
$ 11 Nitrobenzene-d5



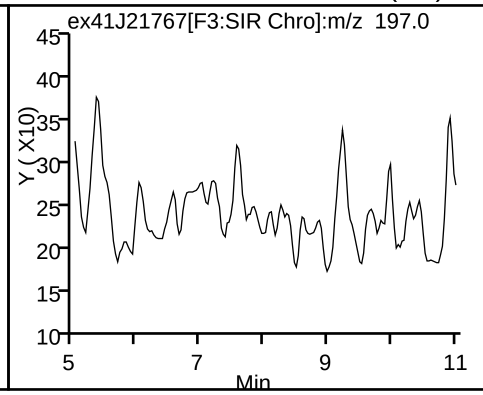
12 Nitrobenzene (ND)



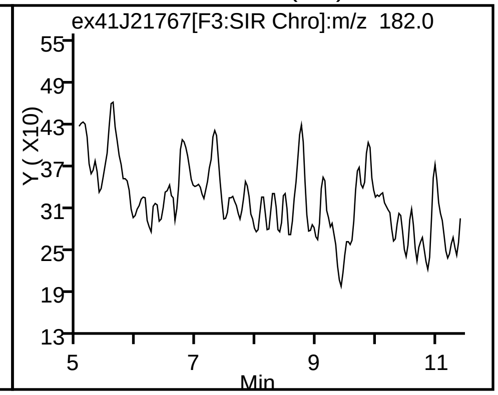
13 3,4-Dinitrotoluene (ND)



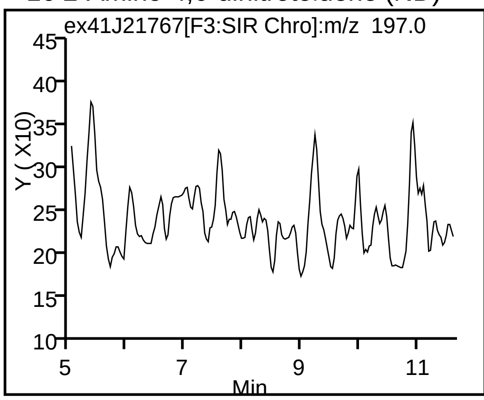
14 4-Amino-2,6-dinitrotoluene (ND)



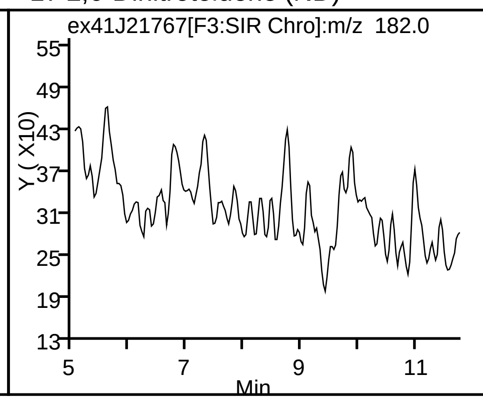
15 2,3-Dinitrotoluene (ND)



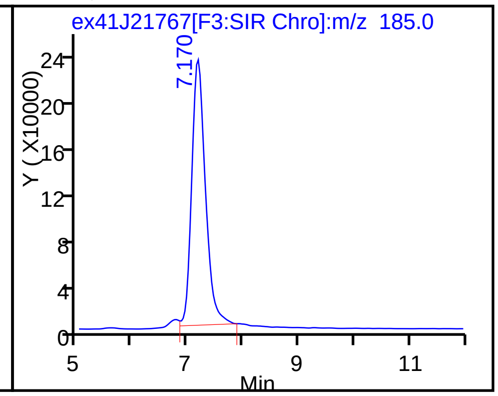
16 2-Amino-4,6-dinitrotoluene (ND)



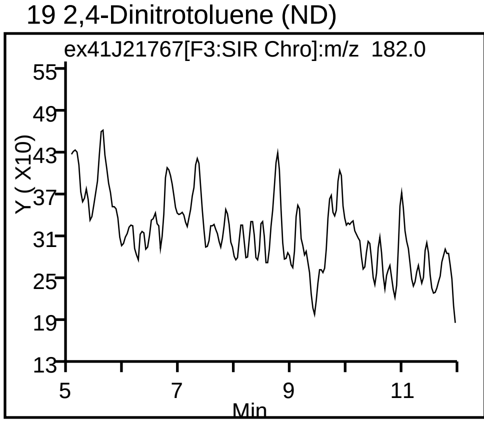
17 2,6-Dinitrotoluene (ND)



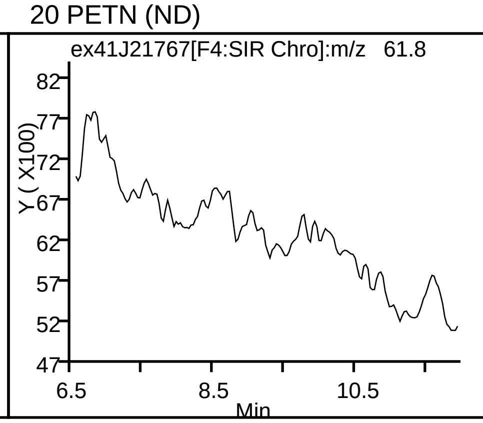
* 18 2,4-dinitrotoluene-d3



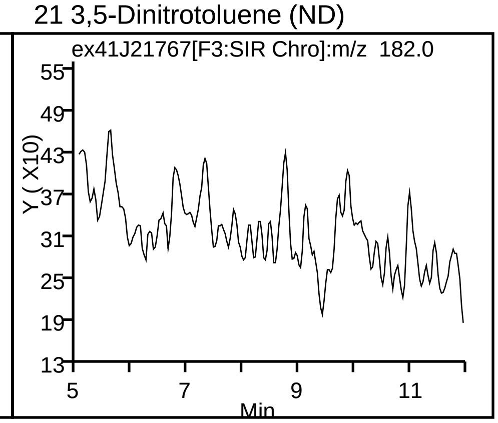
19 2,4-Dinitrotoluene (ND)



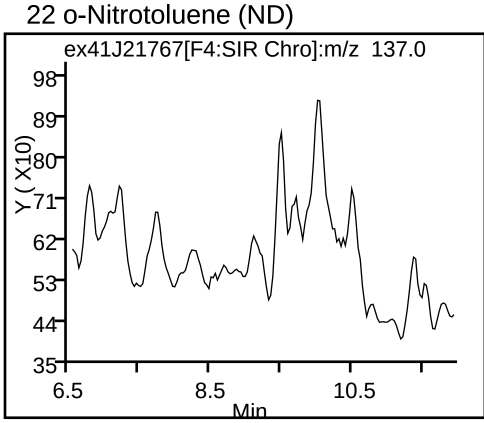
20 PETN (ND)



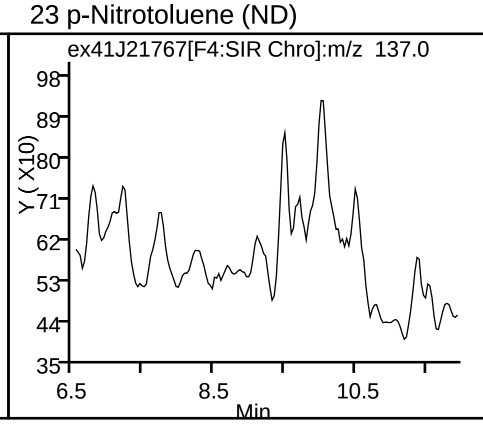
21 3,5-Dinitrotoluene (ND)



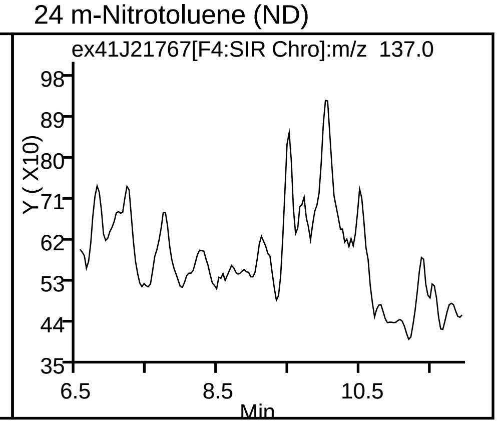
22 o-Nitrotoluene (ND)



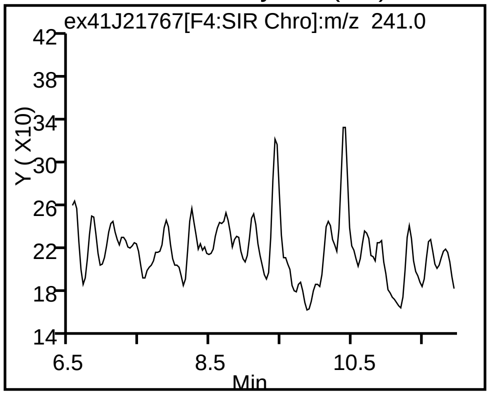
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP26 SB051

Lab Sample ID: 280-21902-44

Matrix: Solid

Lab File ID: ex41J21769.d

Analysis Method: 8321B

Date Collected: 10/18/2011 12:40

Extraction Method: 8330B

Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.32(g)

Date Analyzed: 11/03/2011 16:09

Con. Extract Vol.: 40(mL)

Dilution Factor: 1

Injection Volume: 40(uL)

GC Column: IonPac ID: 2(mm)

% Moisture:

GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610

Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21769.d		
Lims ID:	280-21902-A-44-C	Client ID:	SB051
Inject. Date:	03-Nov-2011 16:09:35	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-44-C 280-0002711-020		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	101
Lims Batch ID:	94610	Lims Sample ID:	20
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:43	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									1
1	355.0		2.062							
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		689421	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	2.991	0.041		1979681	250.0			
	4 RDX									1
1	281.0		3.032							
	5 1,3,5-Trinitrobenzene									1
1	213.0		3.759							
	6 Tetryl									1
2	241.0		4.429							
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.913	4.913	0.000		1496688	258.7			
	8 1,3-Dinitrobenzene									1
2	168.0		4.994							
	9 Nitroglycerin									1
2	61.8		4.994							
	10 2,4,6-Trinitrotoluene									1
2	227.0		5.371							
$	11 Nitrobenzene-d5									
2	128.0	5.472	5.472	0.000	1.114	541919	73.2			
	12 Nitrobenzene									1
2	123.0		5.573							
	13 3,4-Dinitrotoluene									1
3	182.0		5.651							
	14 4-Amino-2,6-dinitrotoluene									1
3	197.0		6.055							
	15 2,3-Dinitrotoluene									1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.624							
17	2,6-Dinitrotoluene									1
3	182.0		6.806							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.170	7.140	0.030		4170396	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.231							
20	PETN									1
4	61.8		7.677							
21	3,5-Dinitrotoluene									1
3	182.0		7.808							
22	o-Nitrotoluene									1
4	137.0		8.162							
23	p-Nitrotoluene									1
4	137.0		8.739							
24	m-Nitrotoluene									1
4	137.0		9.377							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.227							

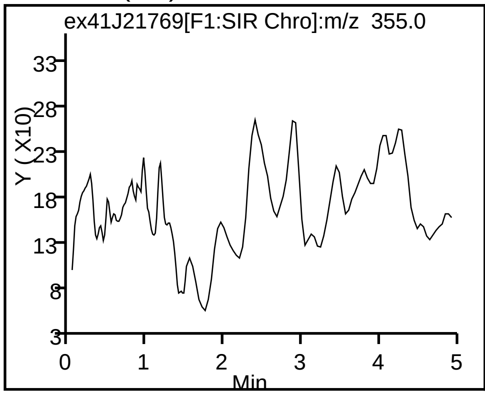
QC Flag Legend

Processing Flags
1 - Missing Peaks

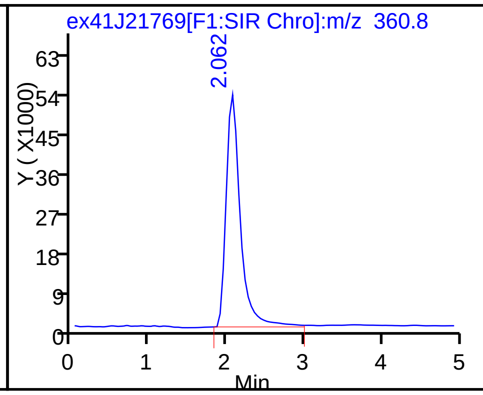
Report Date: 04-Nov-2011 06:46:45 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21769.d

Injection Date:	03-Nov-2011 16:09:35	Limit Group:	LC - 8321A Expl
Client ID:	SB051	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	20
Operator ID:		Injection Vol:	40.00 ul

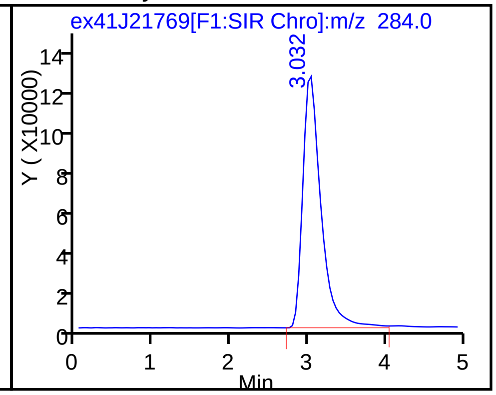
2 HMX (ND)



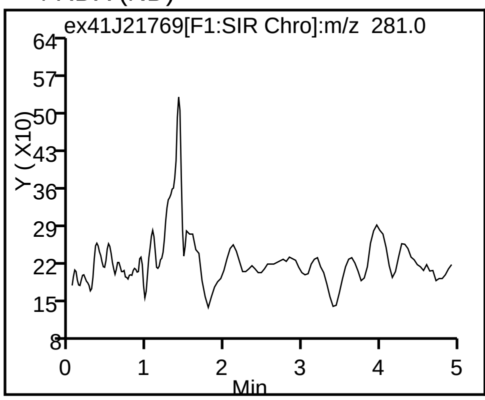
* 1 HMX-13C4



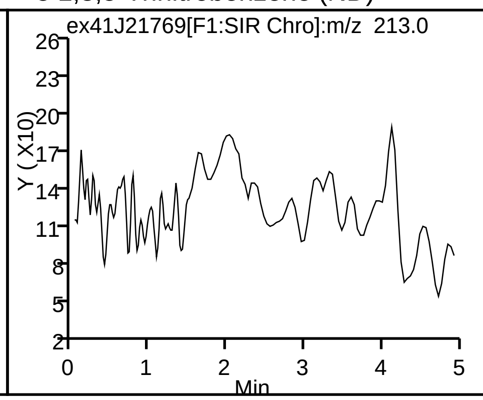
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



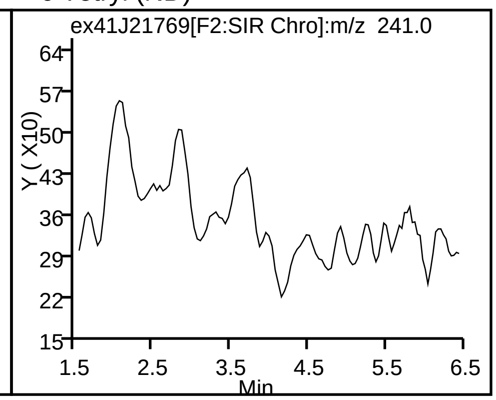
4 RDX (ND)



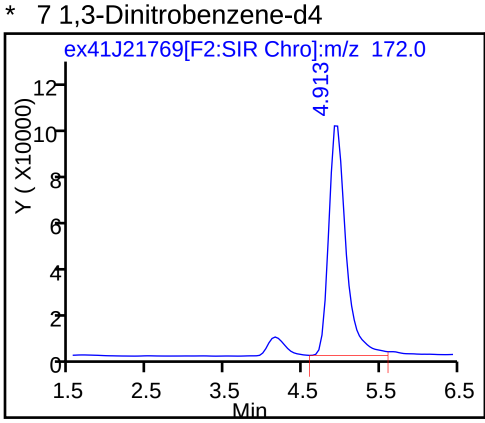
5 1,3,5-Trinitrobenzene (ND)



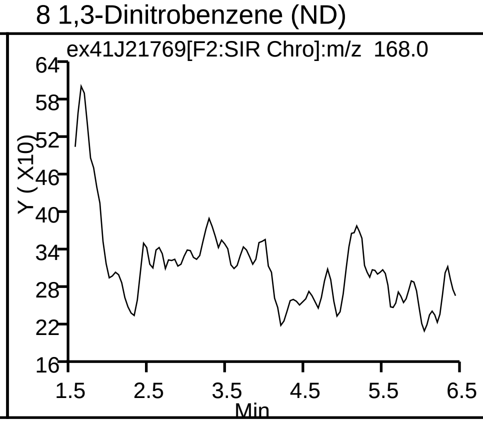
6 Tetryl (ND)



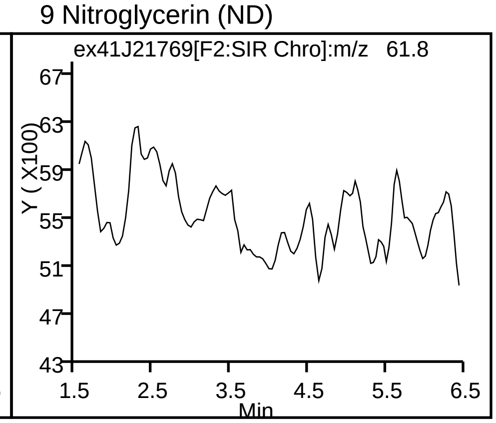
* 7 1,3-Dinitrobenzene-d4



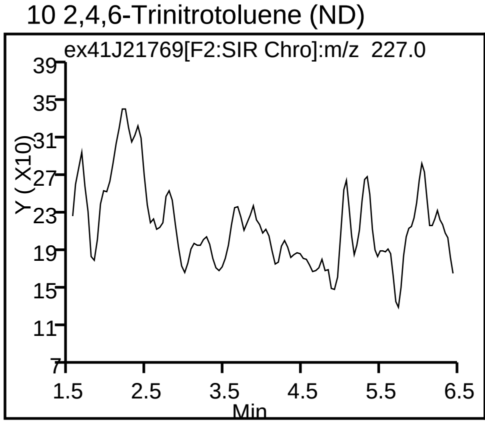
8 1,3-Dinitrobenzene (ND)



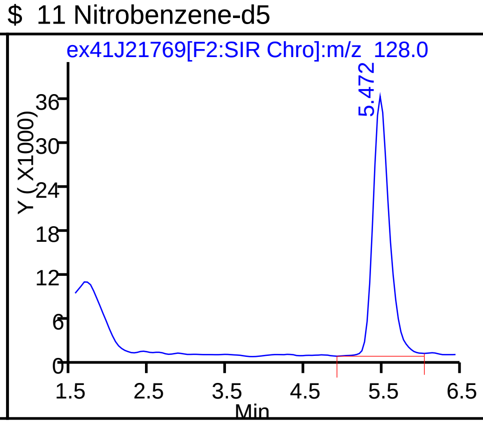
9 Nitroglycerin (ND)



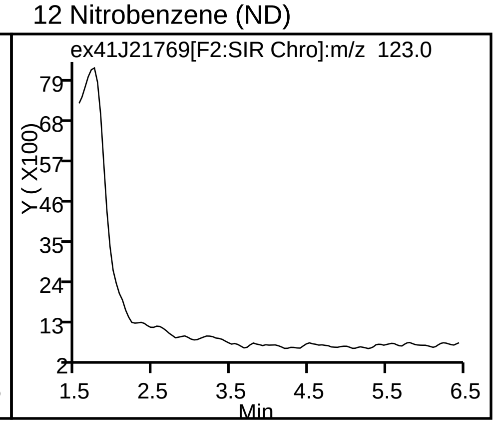
10 2,4,6-Trinitrotoluene (ND)



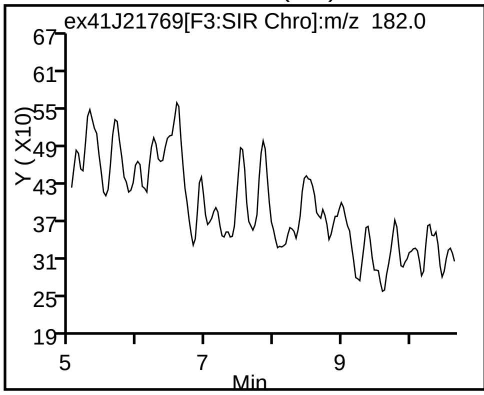
$ 11 Nitrobenzene-d5



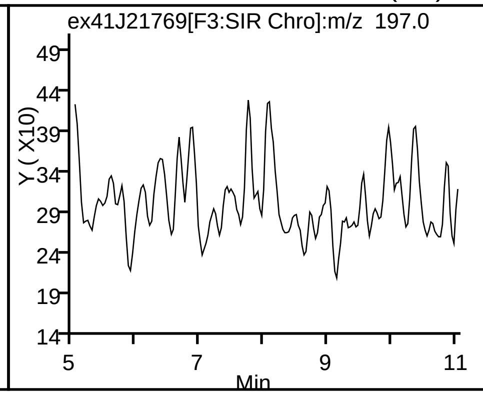
12 Nitrobenzene (ND)



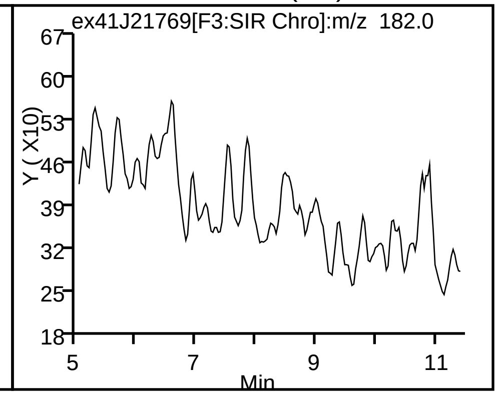
13 3,4-Dinitrotoluene (ND)



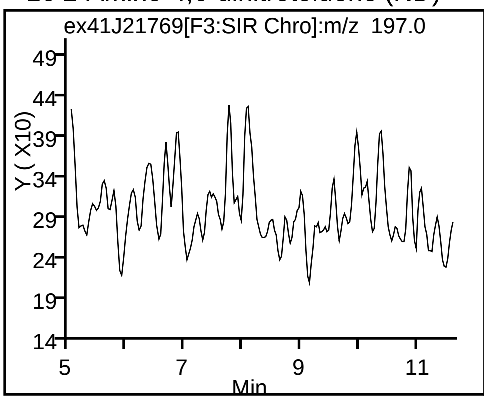
14 4-Amino-2,6-dinitrotoluene (ND)



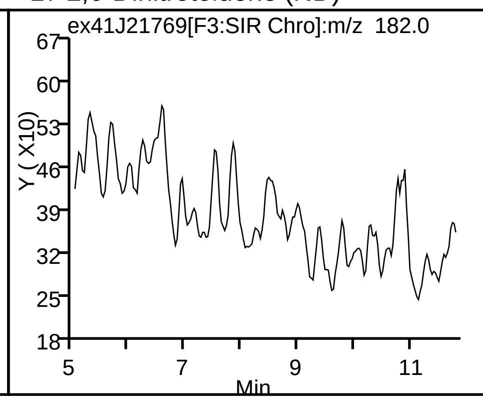
15 2,3-Dinitrotoluene (ND)



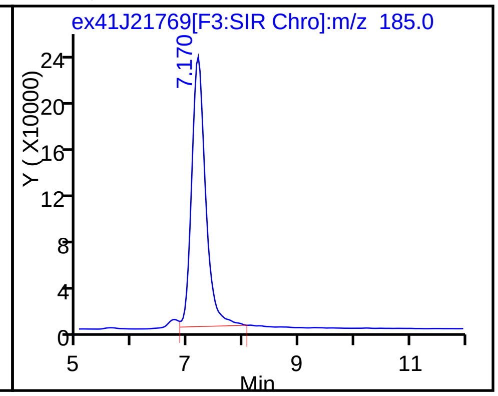
16 2-Amino-4,6-dinitrotoluene (ND)



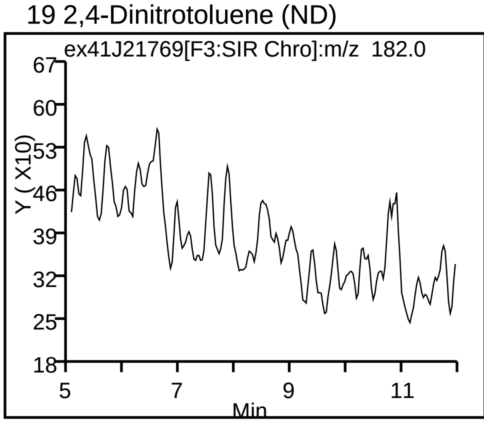
17 2,6-Dinitrotoluene (ND)



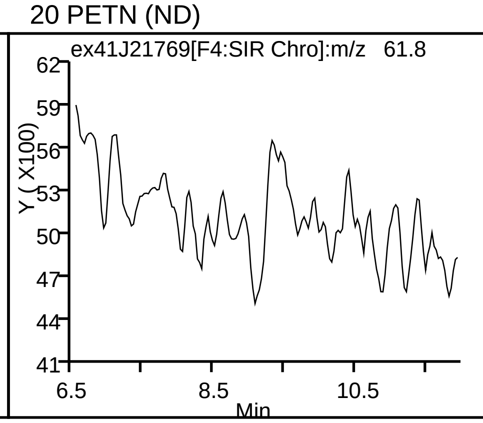
* 18 2,4-dinitrotoluene-d3



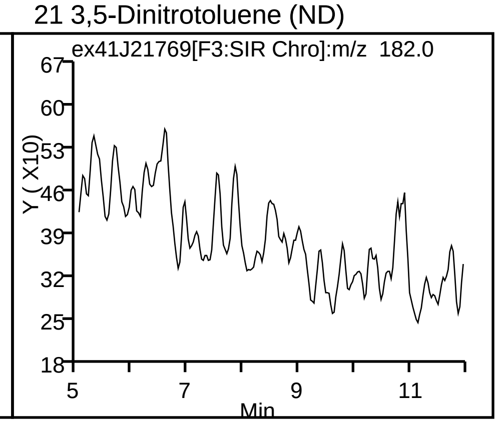
19 2,4-Dinitrotoluene (ND)



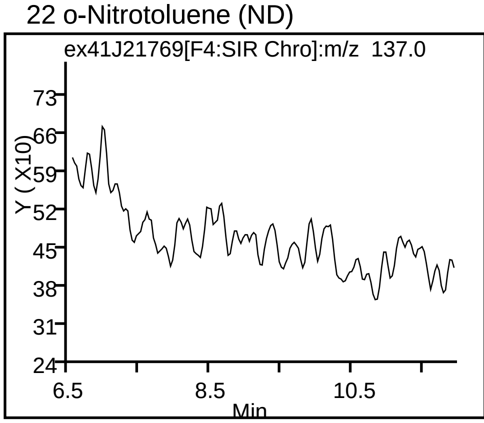
20 PETN (ND)



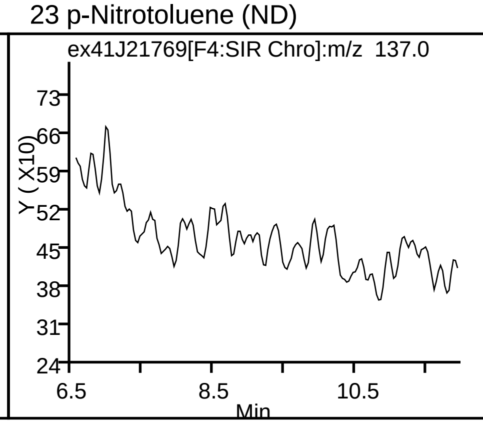
21 3,5-Dinitrotoluene (ND)



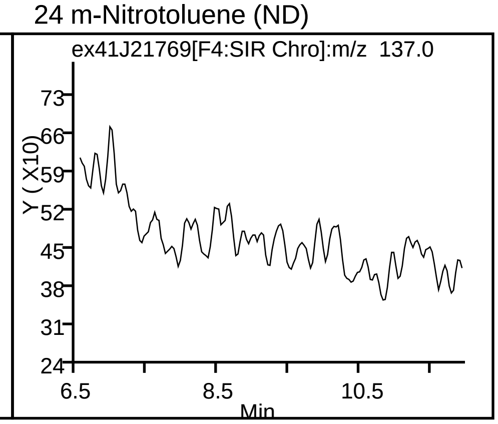
22 o-Nitrotoluene (ND)



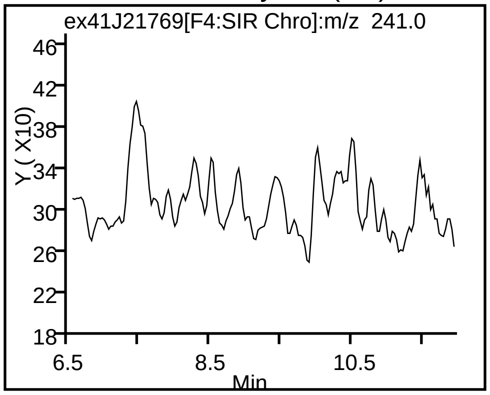
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP21 SB038 Lab Sample ID: 280-21902-45

Matrix: Solid Lab File ID: ex41J21770.d

Analysis Method: 8321B Date Collected: 10/18/2011 12:20

Extraction Method: 8330B Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.99(g) Date Analyzed: 11/03/2011 16:23

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.091	0.023	0.011
99-65-0	1,3-Dinitrobenzene	0.011	U	0.091	0.011	0.0065
118-96-7	2,4,6-Trinitrotoluene	0.011	U	0.091	0.011	0.0046
121-14-2	2,4-Dinitrotoluene	0.011	U	0.091	0.011	0.0075
606-20-2	2,6-Dinitrotoluene	0.023	U	0.091	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.091	0.023	0.011
88-72-2	2-Nitrotoluene	0.011	U	0.091	0.011	0.0052
99-08-1	3-Nitrotoluene	0.023	U	0.091	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.011	U	0.091	0.011	0.0046
99-99-0	4-Nitrotoluene	0.023	U	0.091	0.023	0.010
2691-41-0	HMX	0.011	U	0.091	0.011	0.0053
98-95-3	Nitrobenzene	0.011	U	0.091	0.011	0.0098
55-63-0	Nitroglycerin	0.011	U	0.091	0.011	0.0096
78-11-5	PETN	0.011	U	0.091	0.011	0.0047
121-82-4	RDX	0.011	U	0.091	0.011	0.0039
479-45-8	Tetryl	0.011	U	0.091	0.011	0.0069

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	75		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21770.d		
Lims ID:	280-21902-B-45-B	Client ID:	SB038
Inject. Date:	03-Nov-2011 16:23:25	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-45-B 280-0002711-021		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	102
Lims Batch ID:	94610	Lims Sample ID:	21
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:43	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		753081	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2229560	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1505887	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	554379	74.5			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.624							
17	2,6-Dinitrotoluene									1
3	182.0		6.806							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.170	7.140	0.030		4536989	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.231							
20	PETN									1
4	61.8		7.677							
21	3,5-Dinitrotoluene									1
3	182.0		7.808							
22	o-Nitrotoluene									1
4	137.0		8.162							
23	p-Nitrotoluene									1
4	137.0		8.739							
24	m-Nitrotoluene									1
4	137.0		9.377							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.227							

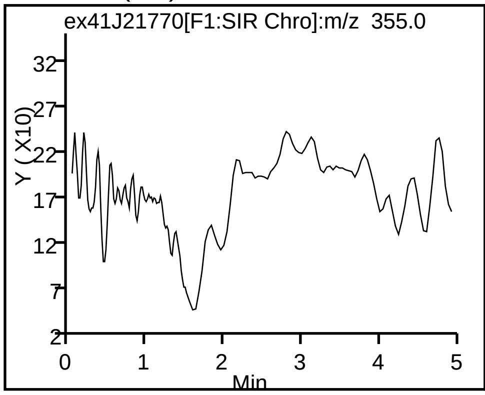
QC Flag Legend

Processing Flags
1 - Missing Peaks

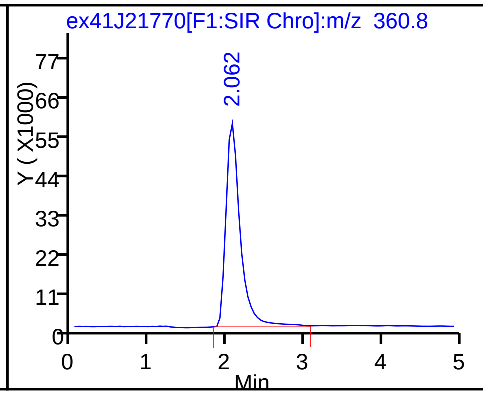
Report Date: 04-Nov-2011 06:46:46 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21770.d

Injection Date:	03-Nov-2011 16:23:25	Limit Group:	LC - 8321A Expl
Client ID:	SB038	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	21
Operator ID:		Injection Vol:	40.00 ul

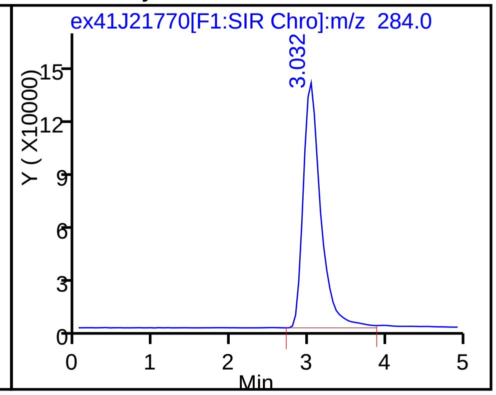
2 HMX (ND)



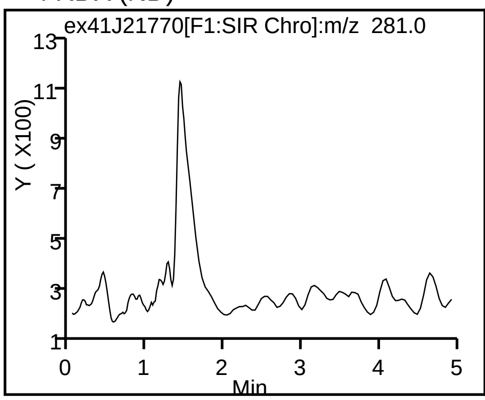
* 1 HMX-13C4



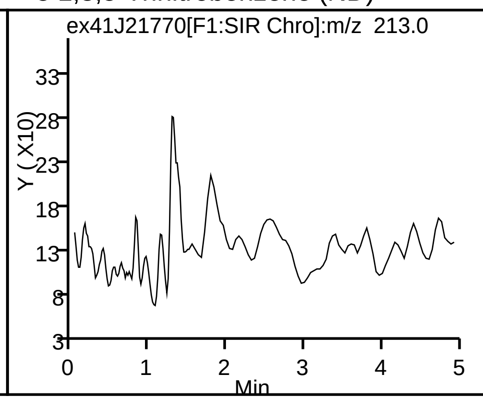
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



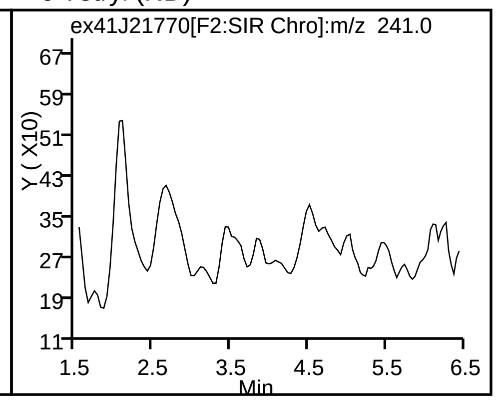
4 RDX (ND)



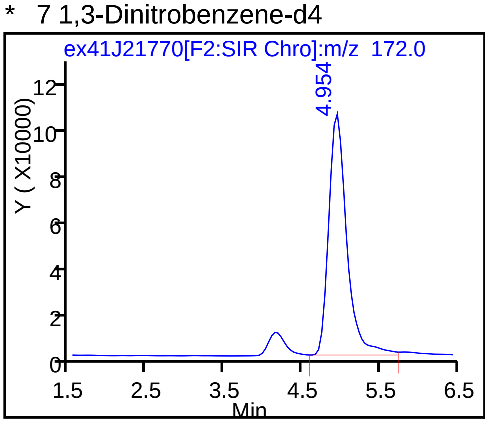
5 1,3,5-Trinitrobenzene (ND)



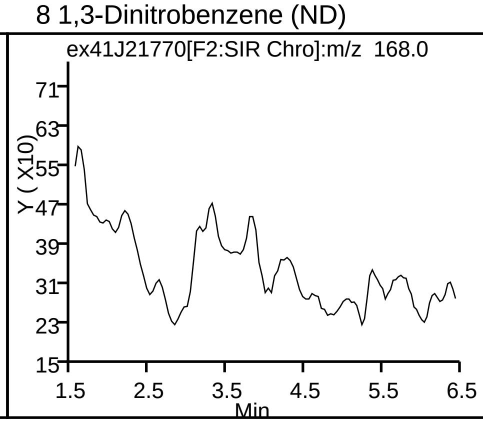
6 Tetryl (ND)



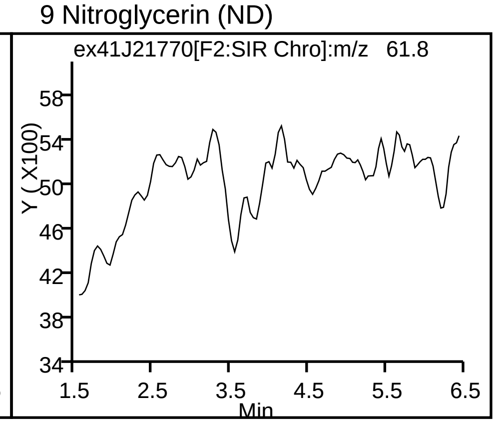
* 7 1,3-Dinitrobenzene-d4



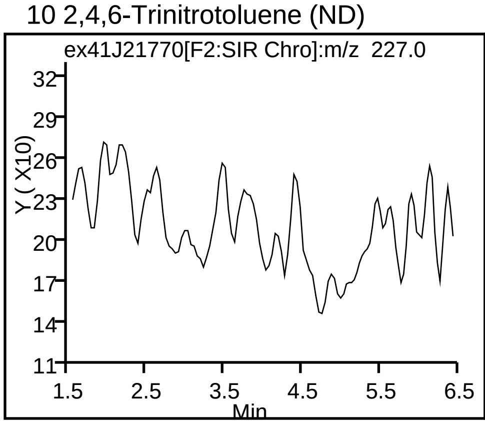
8 1,3-Dinitrobenzene (ND)



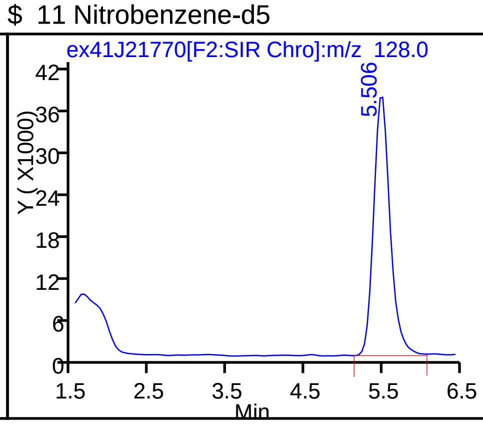
9 Nitroglycerin (ND)



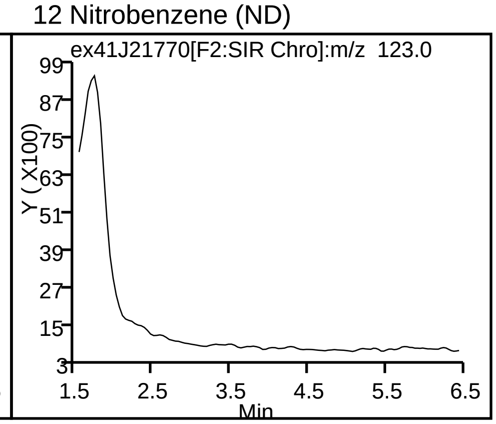
10 2,4,6-Trinitrotoluene (ND)



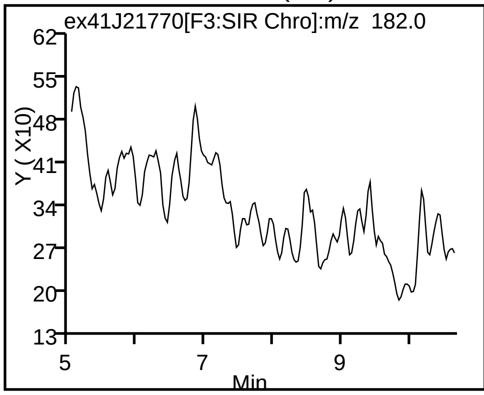
$ 11 Nitrobenzene-d5



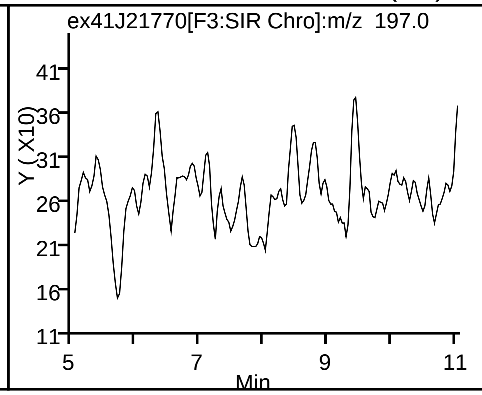
12 Nitrobenzene (ND)



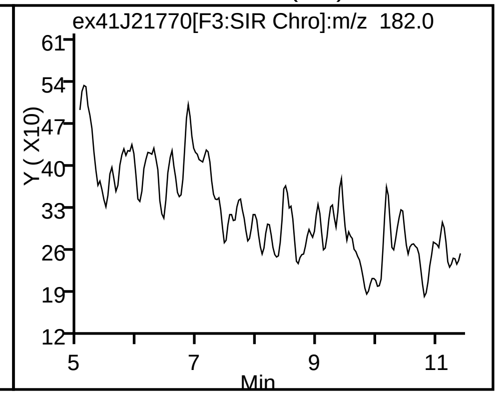
13 3,4-Dinitrotoluene (ND)



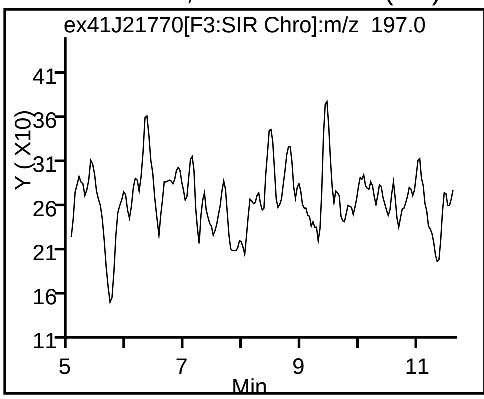
14 4-Amino-2,6-dinitrotoluene (ND)



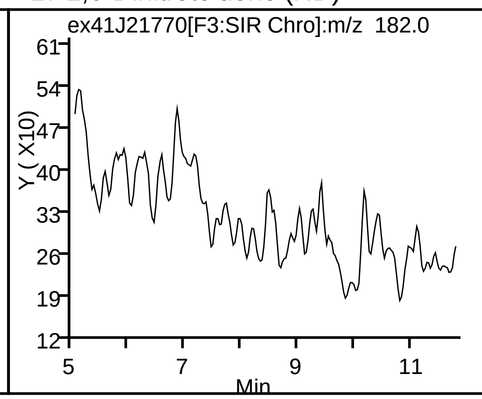
15 2,3-Dinitrotoluene (ND)



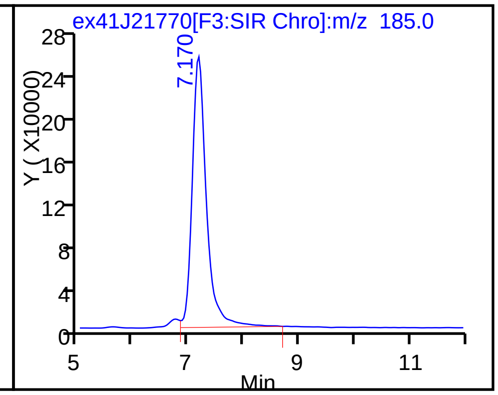
16 2-Amino-4,6-dinitrotoluene (ND)



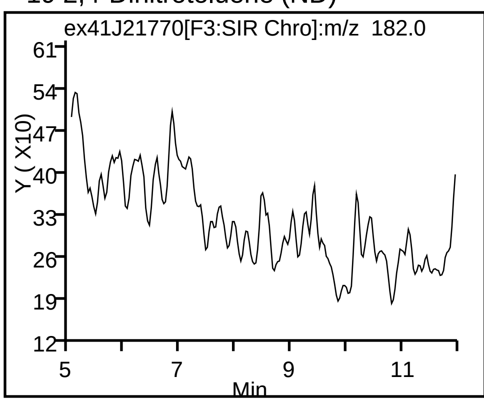
17 2,6-Dinitrotoluene (ND)



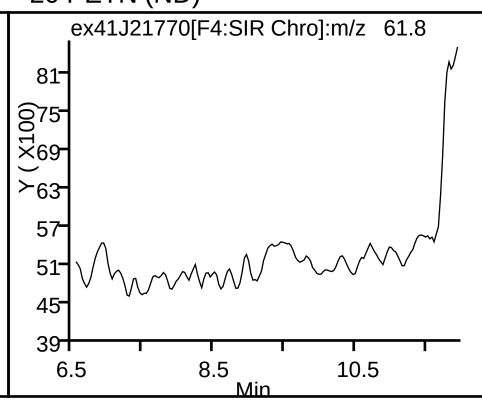
* 18 2,4-dinitrotoluene-d3



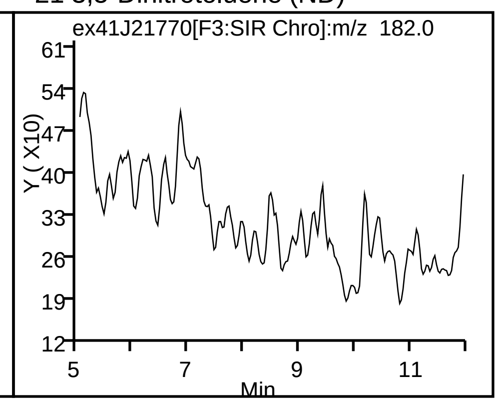
19 2,4-Dinitrotoluene (ND)



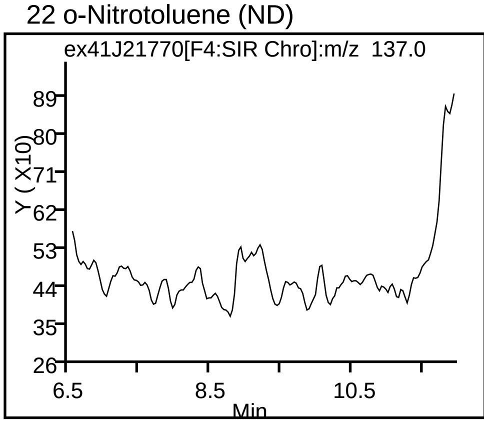
20 PETN (ND)



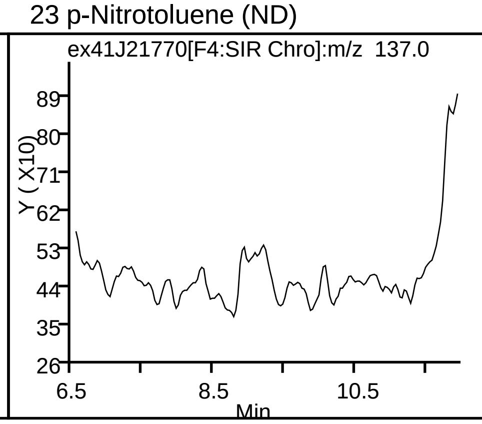
21 3,5-Dinitrotoluene (ND)



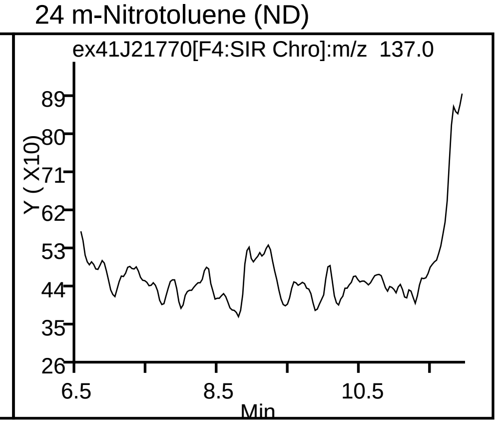
22 o-Nitrotoluene (ND)



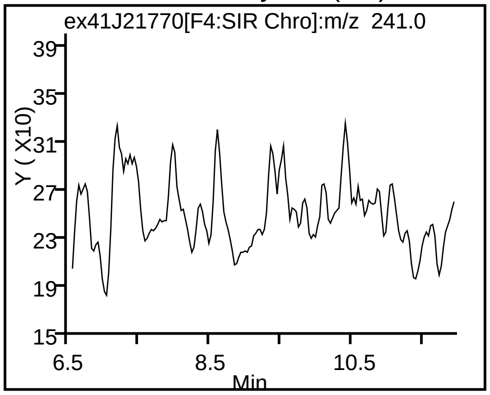
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP21 SB039 | Lab Sample ID: 280-21902-46

Matrix: Solid | Lab File ID: ex41J21771.d

Analysis Method: 8321B | Date Collected: 10/18/2011 12:28

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.48(g) | Date Analyzed: 11/03/2011 16:36

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21771.d		
Lims ID:	280-21902-B-46-B	Client ID:	SB039
Inject. Date:	03-Nov-2011 16:36:59	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-46-B 280-0002711-022		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	103
Lims Batch ID:	94610	Lims Sample ID:	22
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:43	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		597831	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		1972534	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1379934	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	558114	81.9			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4103066	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.162							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

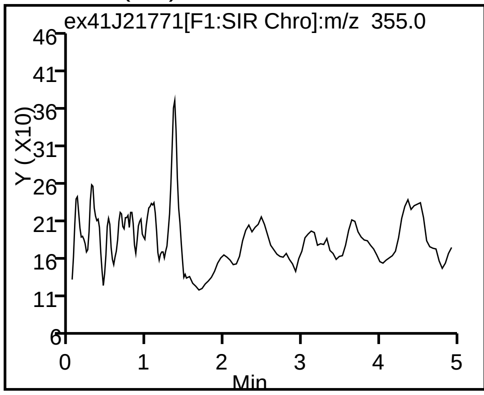
QC Flag Legend

Processing Flags
1 - Missing Peaks

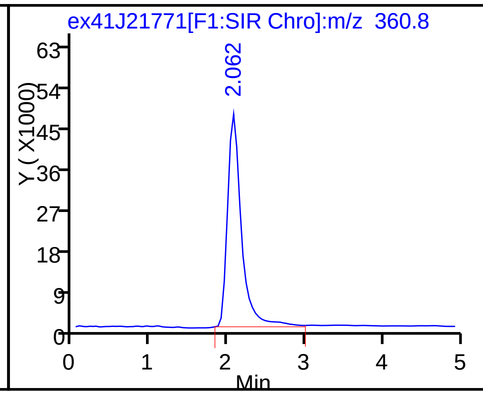
Report Date: 04-Nov-2011 06:46:46   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21771.d

Injection Date:	03-Nov-2011 16:36:59	Limit Group:	LC - 8321A Expl
Client ID:	SB039	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	22
Operator ID:		Injection Vol:	40.00 ul

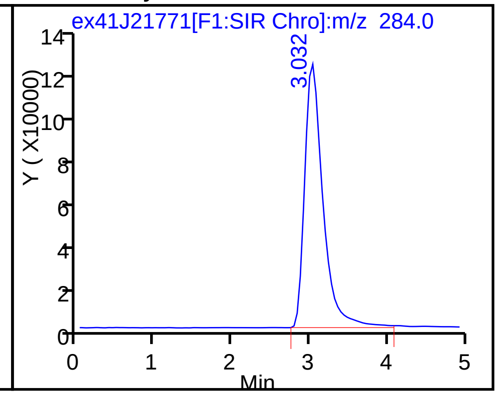
2 HMX (ND)



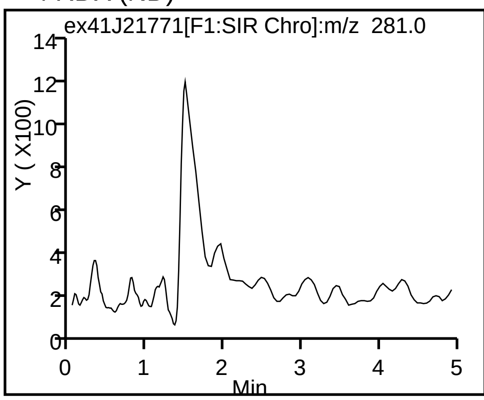
* 1 HMX-13C4



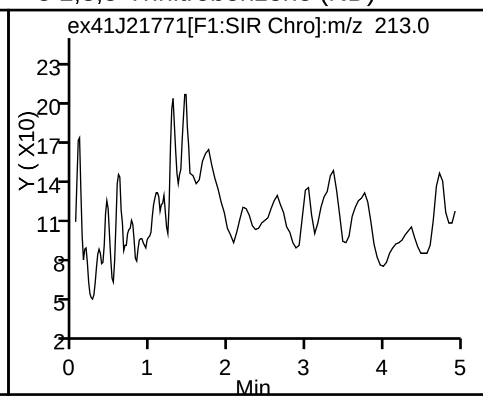
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



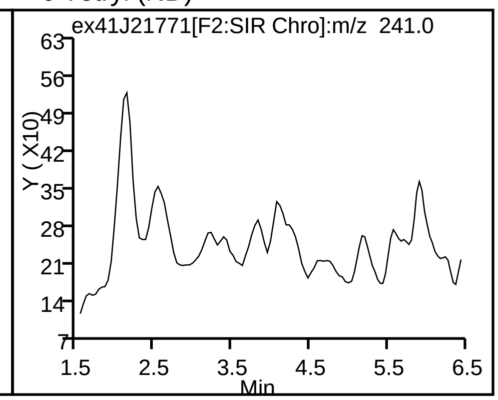
4 RDX (ND)



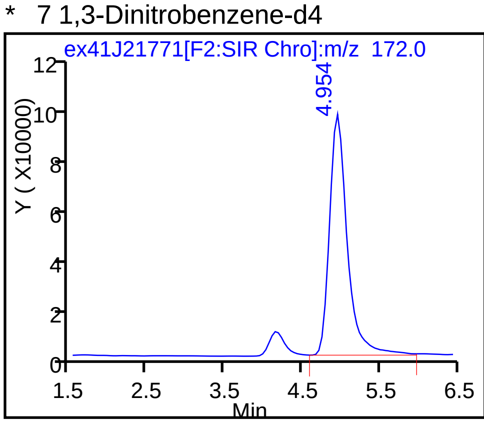
5 1,3,5-Trinitrobenzene (ND)



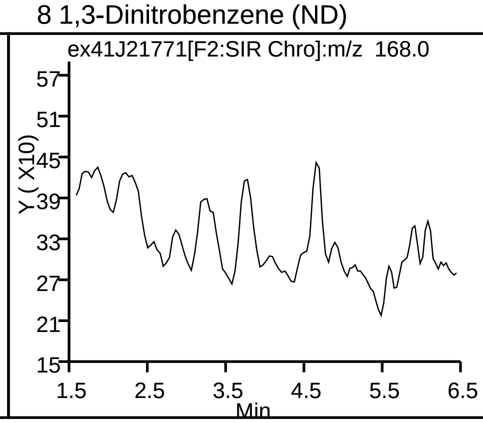
6 Tetryl (ND)



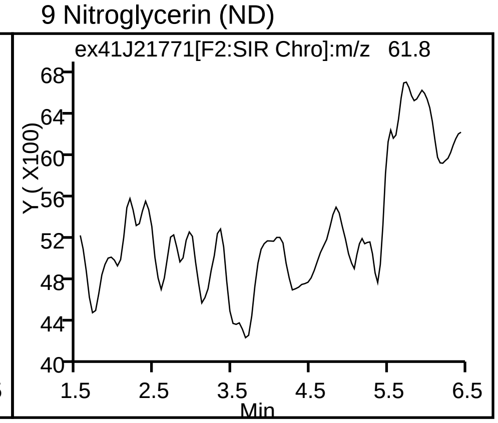
* 7 1,3-Dinitrobenzene-d4



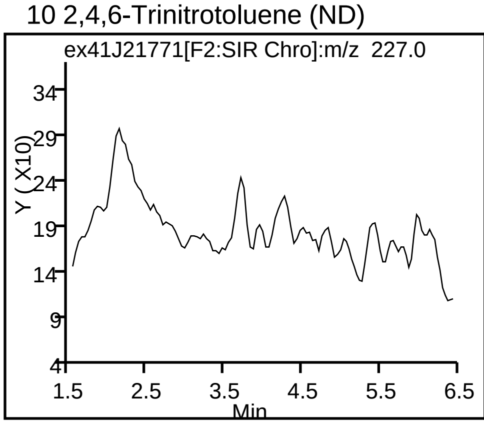
8 1,3-Dinitrobenzene (ND)



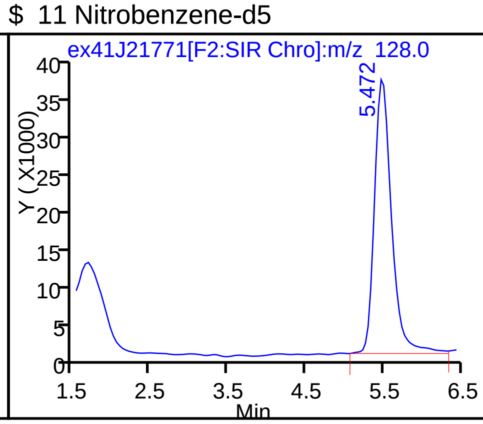
9 Nitroglycerin (ND)



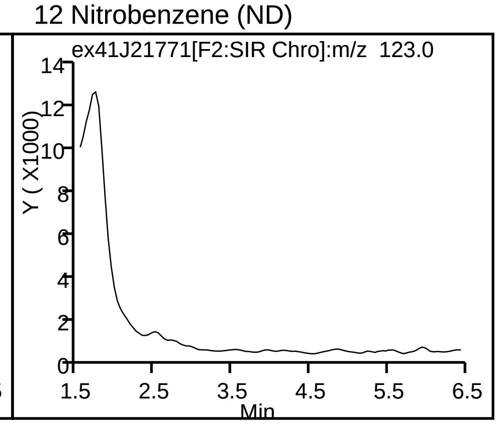
10 2,4,6-Trinitrotoluene (ND)



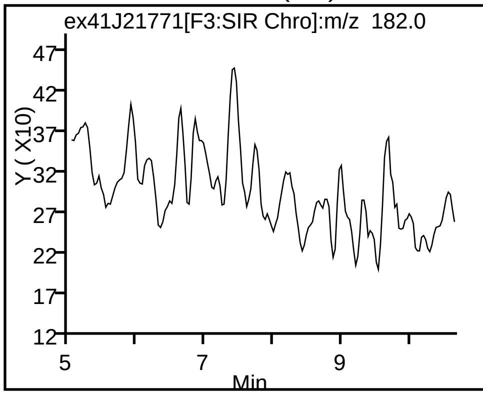
$ 11 Nitrobenzene-d5



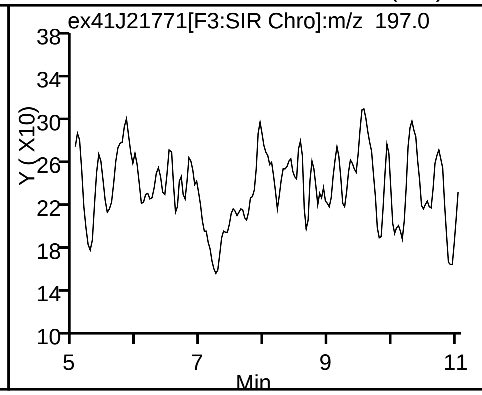
12 Nitrobenzene (ND)



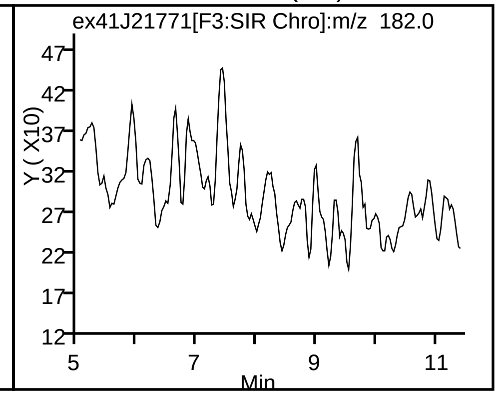
13 3,4-Dinitrotoluene (ND)



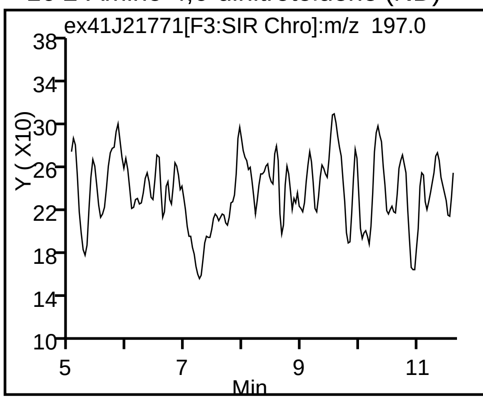
14 4-Amino-2,6-dinitrotoluene (ND)



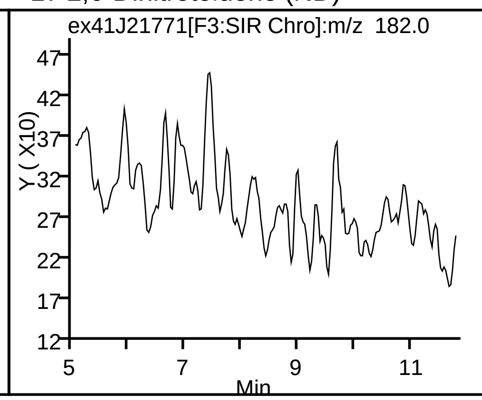
15 2,3-Dinitrotoluene (ND)



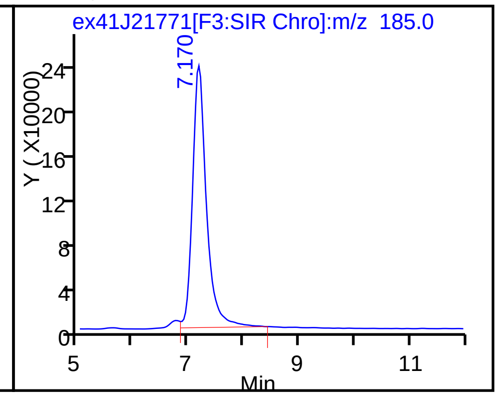
16 2-Amino-4,6-dinitrotoluene (ND)



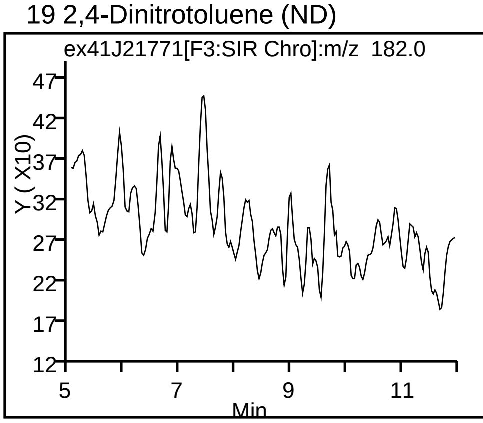
17 2,6-Dinitrotoluene (ND)



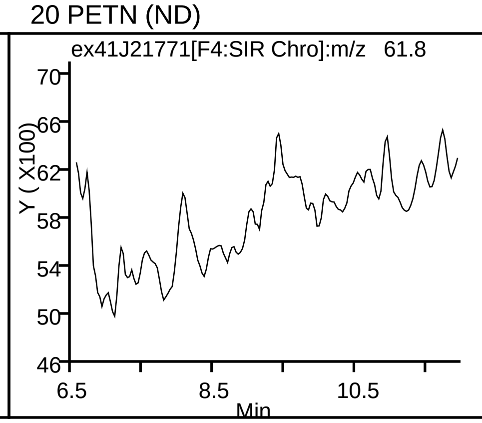
* 18 2,4-dinitrotoluene-d3



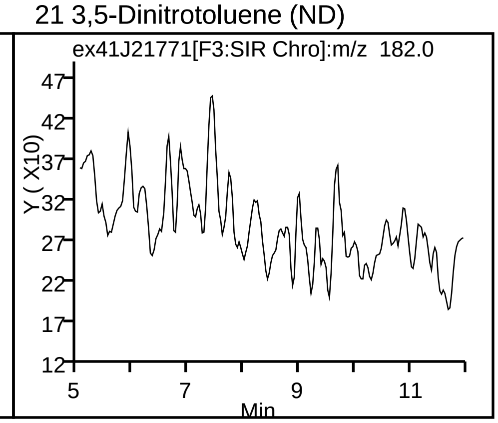
19 2,4-Dinitrotoluene (ND)



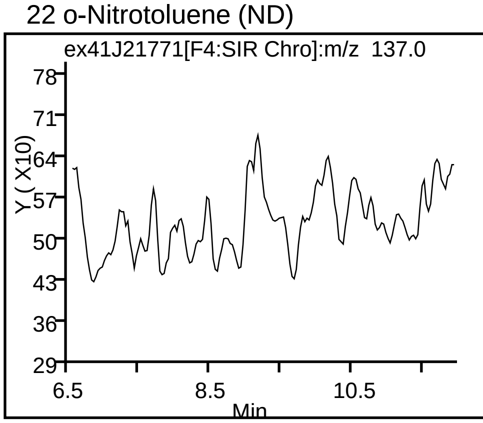
20 PETN (ND)



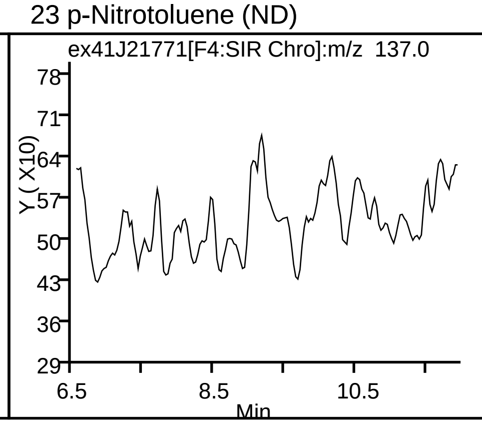
21 3,5-Dinitrotoluene (ND)



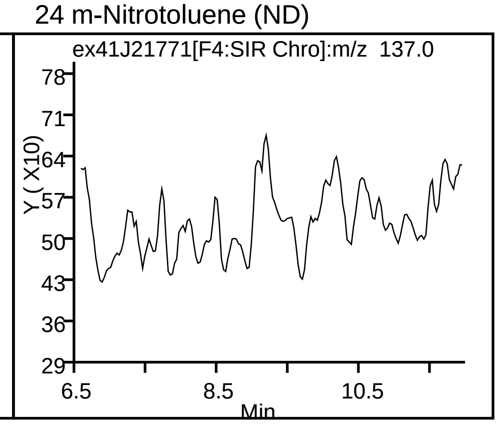
22 o-Nitrotoluene (ND)



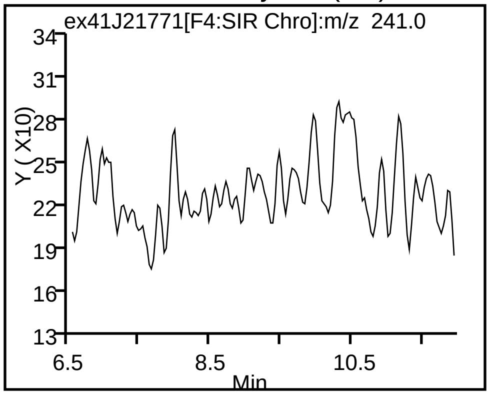
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP20 SB037 | Lab Sample ID: 280-21902-47

Matrix: Solid | Lab File ID: ex41J21772.d

Analysis Method: 8321B | Date Collected: 10/18/2011 13:30

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.21(g) | Date Analyzed: 11/03/2011 16:50

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.098	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.098	0.024	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.098	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.098	0.024	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.098	0.024	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0050
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	69		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21772.d
Lims ID: 280-21902-A-47-C Client ID: SB037
Inject. Date: 03-Nov-2011 16:50:33 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-21902-A-47-C 280-0002711-023
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 104
Lims Batch ID: 94610 Lims Sample ID: 23
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m
Last Update: 04-Nov-2011 06:46:43 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		618416	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2052194	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1477470	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	496904	68.0			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4051143	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.162							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

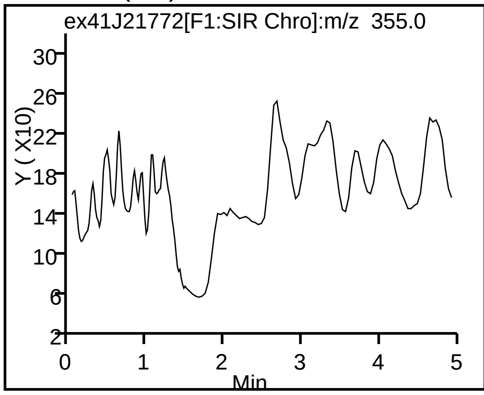
QC Flag Legend

Processing Flags
1 - Missing Peaks

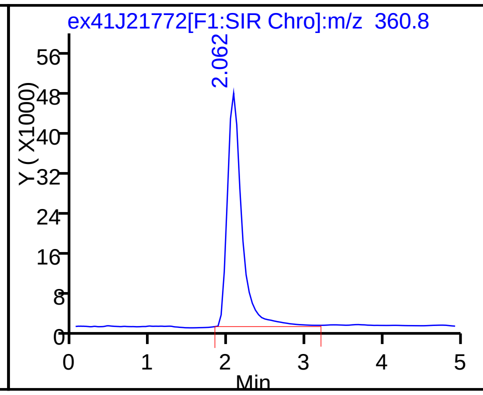
Report Date: 04-Nov-2011 06:46:47 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21772.d		
Injection Date:	03-Nov-2011 16:50:33	Limit Group:	LC - 8321A Expl
Client ID:	SB037	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	23
Operator ID:		Injection Vol:	40.00 ul

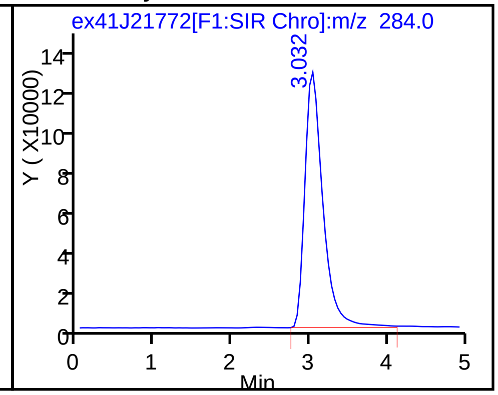
2 HMX (ND)



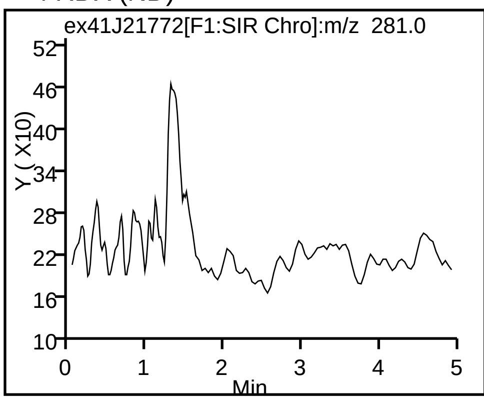
* 1 HMX-13C4



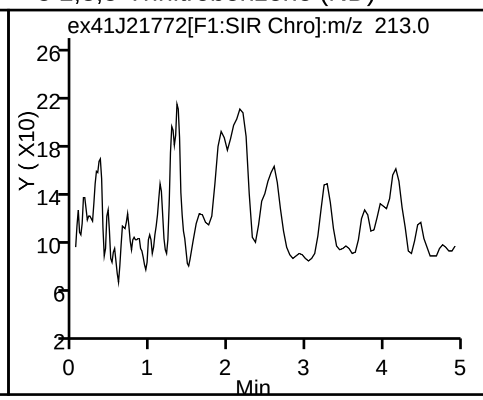
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



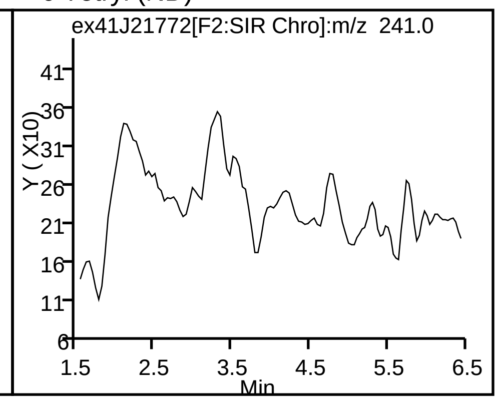
4 RDX (ND)



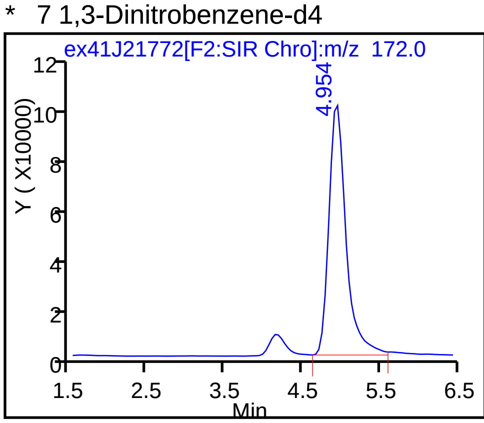
5 1,3,5-Trinitrobenzene (ND)



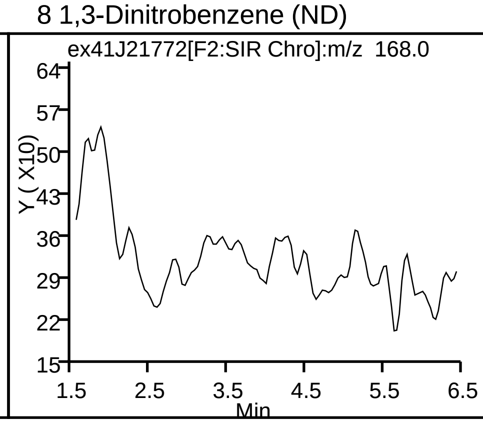
6 Tetryl (ND)



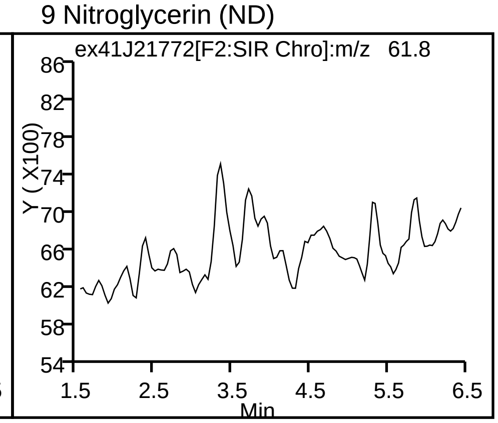
* 7 1,3-Dinitrobenzene-d4



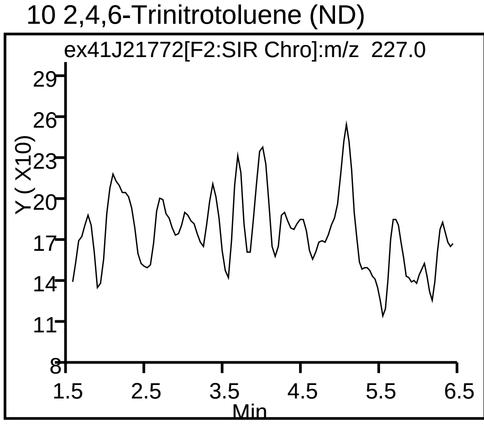
8 1,3-Dinitrobenzene (ND)



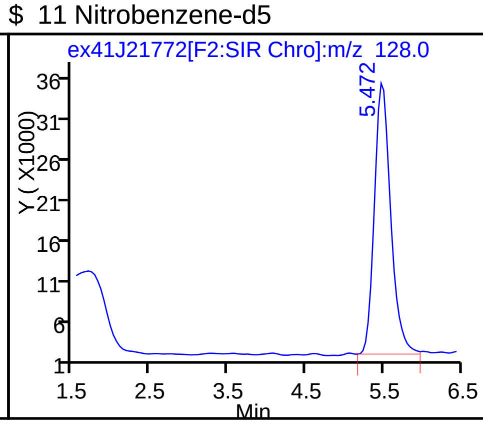
9 Nitroglycerin (ND)



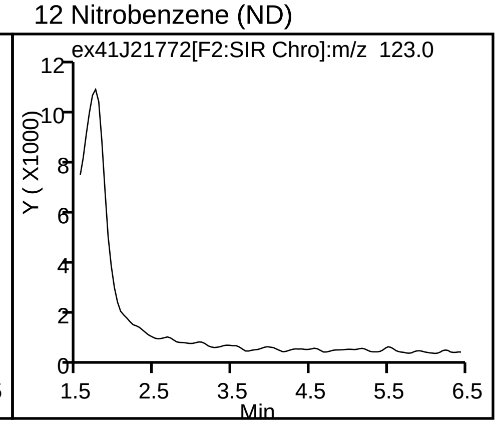
10 2,4,6-Trinitrotoluene (ND)



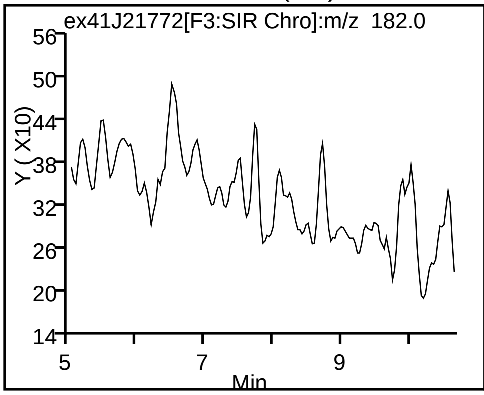
$ 11 Nitrobenzene-d5



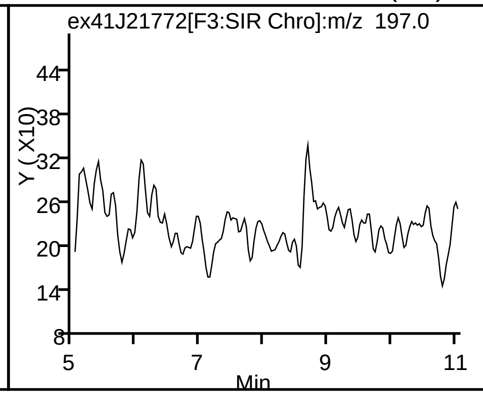
12 Nitrobenzene (ND)



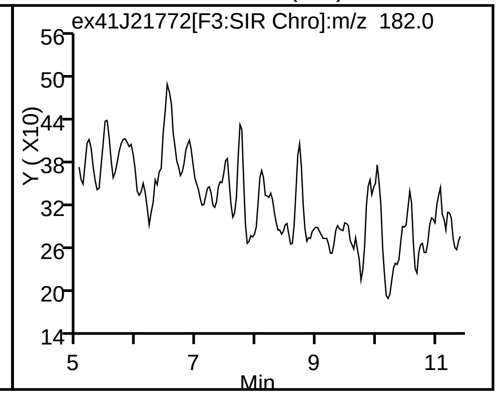
13 3,4-Dinitrotoluene (ND)



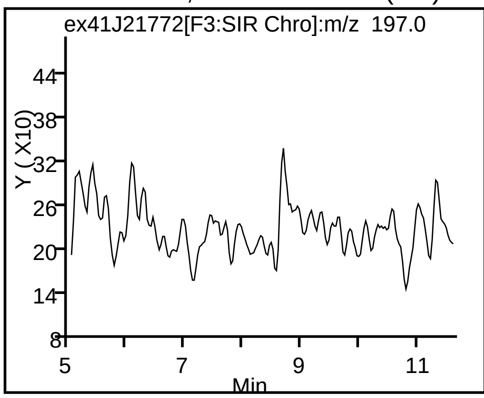
14 4-Amino-2,6-dinitrotoluene (ND)



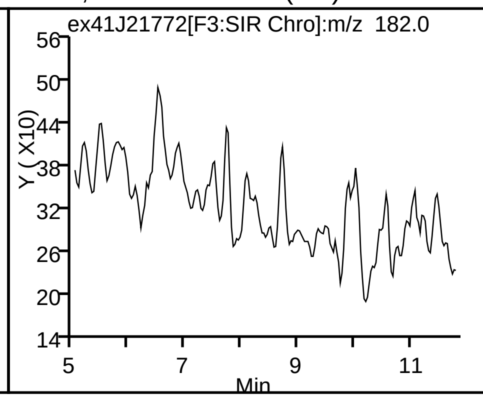
15 2,3-Dinitrotoluene (ND)



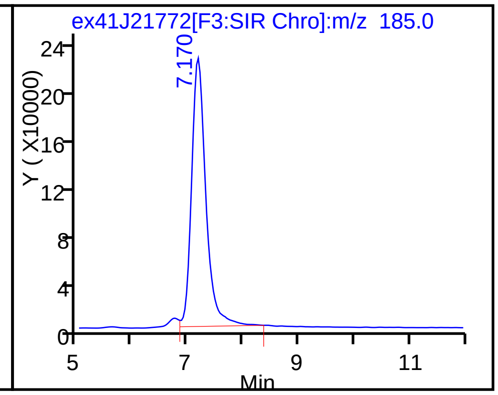
16 2-Amino-4,6-dinitrotoluene (ND)



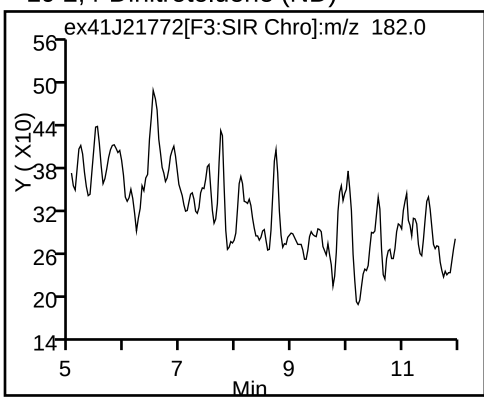
17 2,6-Dinitrotoluene (ND)



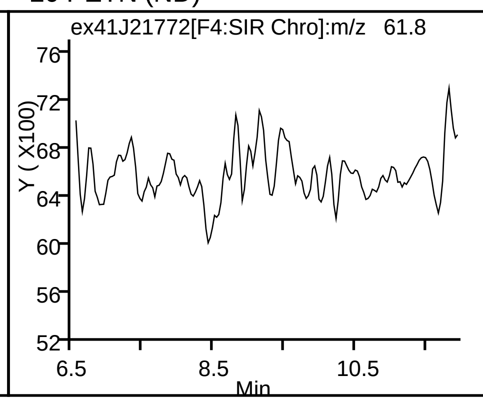
* 18 2,4-dinitrotoluene-d3



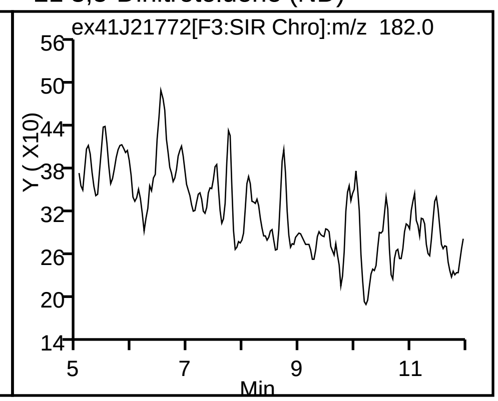
19 2,4-Dinitrotoluene (ND)



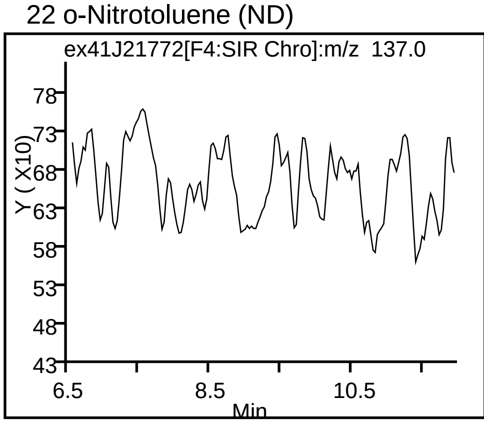
20 PETN (ND)



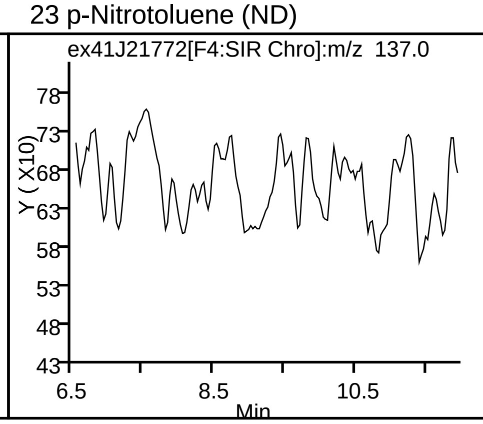
21 3,5-Dinitrotoluene (ND)



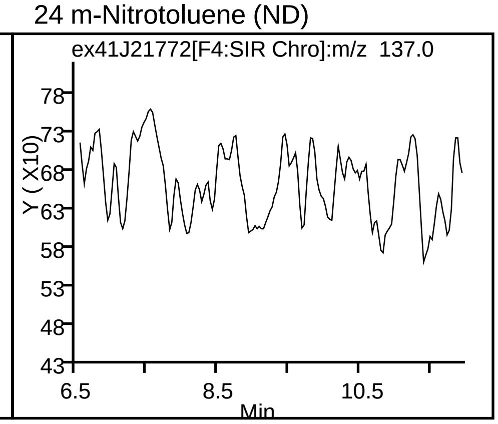
22 o-Nitrotoluene (ND)



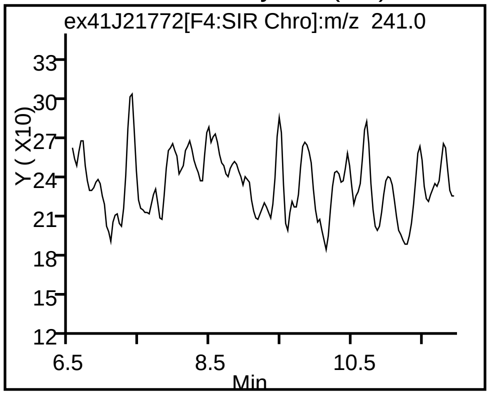
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver　　Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP20 SB036　　Lab Sample ID: 280-21902-48

Matrix: Solid　　Lab File ID: ex41J21773.d

Analysis Method: 8321B　　Date Collected: 10/18/2011 14:15

Extraction Method: 8330B　　Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.24(g)　　Date Analyzed: 11/03/2011 17:04

Con. Extract Vol.: 40(mL)　　Dilution Factor: 1

Injection Volume: 40(uL)　　GC Column: IonPac　　ID: 2(mm)

% Moisture:　　GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610　　Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.098	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.098	0.024	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.098	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.098	0.024	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.098	0.024	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0050
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21773.d		
Lims ID:	280-21902-B-48-B	Client ID:	SB036
Inject. Date:	03-Nov-2011 17:04:07	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-48-B 280-0002711-024		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	105
Lims Batch ID:	94610	Lims Sample ID:	24
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:43	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		650524	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2031594	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1315258	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	527665	81.2			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

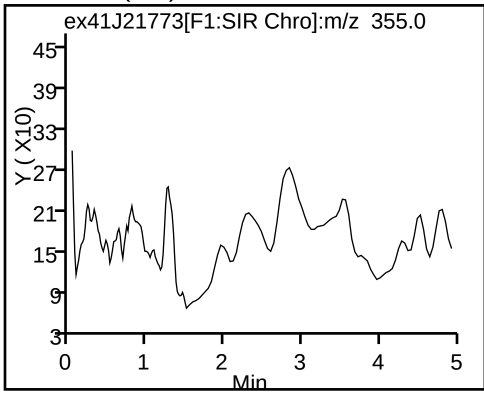
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4390377	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.162							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

QC Flag Legend

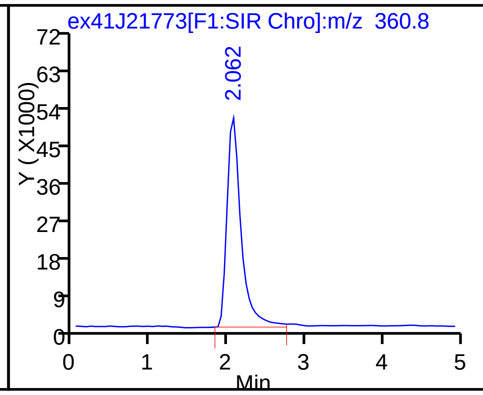
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:46:48		Chrom Revision: 1.2 13-Jul-2011 10:43:06	
Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21773.d		
Injection Date:	03-Nov-2011 17:04:07	Limit Group:	LC - 8321A Expl
Client ID:	SB036	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	24
Operator ID:		Injection Vol:	40.00 ul

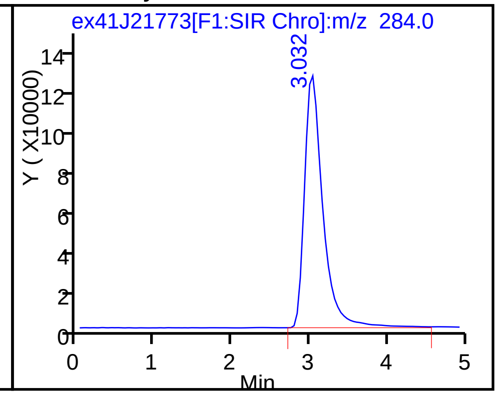
2 HMX (ND)



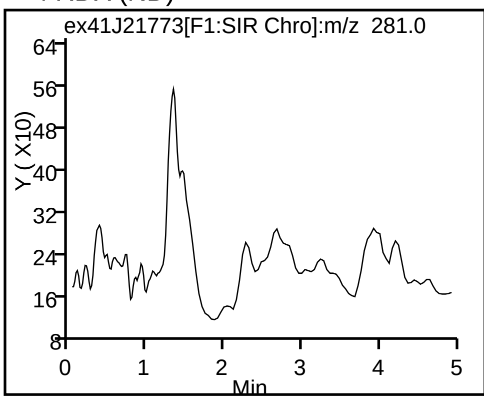
* 1 HMX-13C4



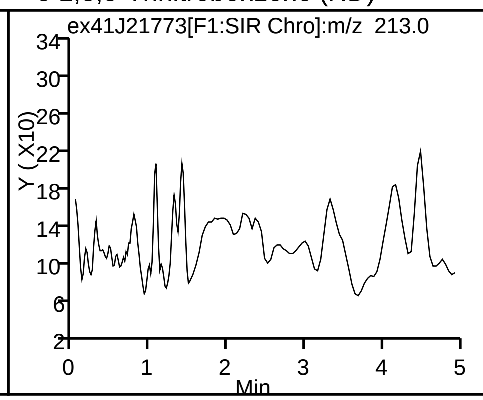
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



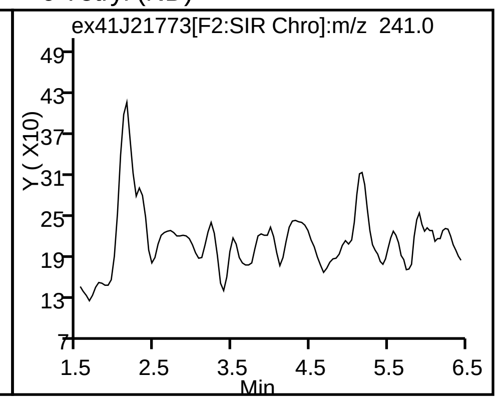
4 RDX (ND)



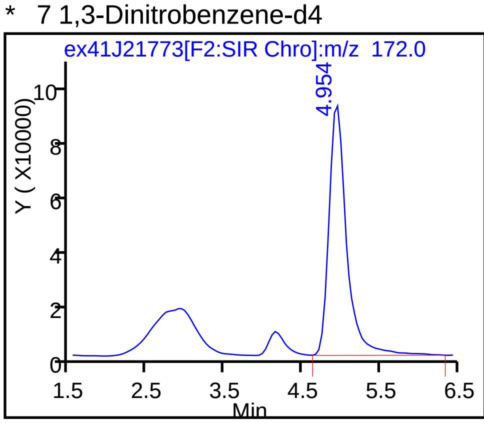
5 1,3,5-Trinitrobenzene (ND)



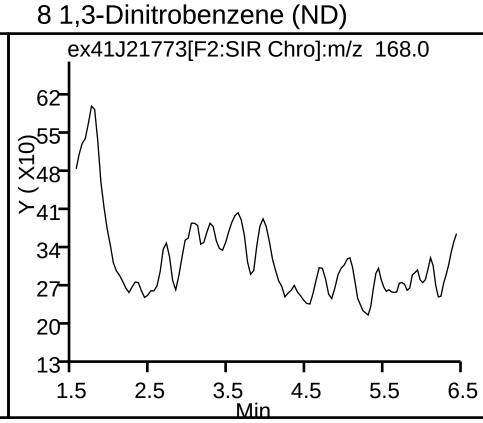
6 Tetryl (ND)



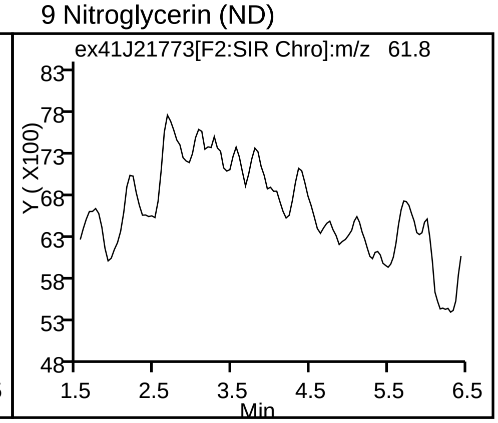
* 7 1,3-Dinitrobenzene-d4



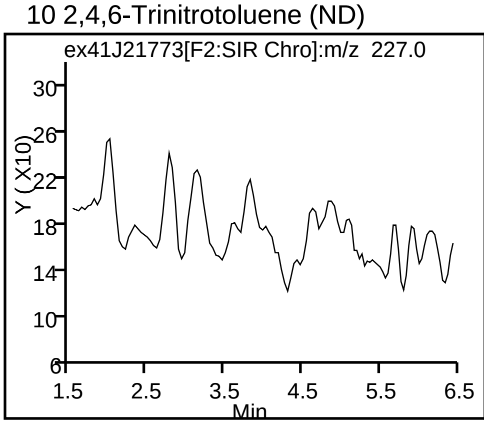
8 1,3-Dinitrobenzene (ND)



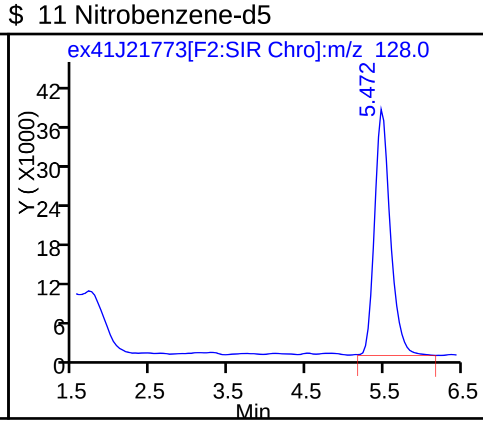
9 Nitroglycerin (ND)



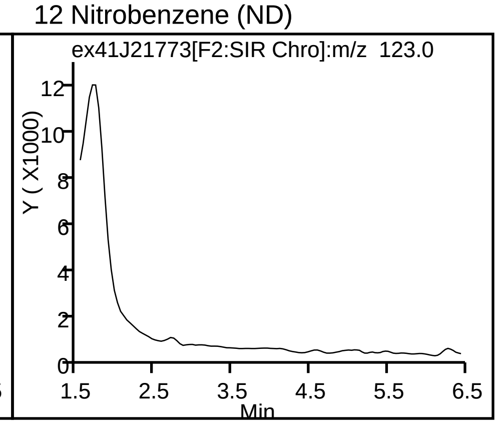
10 2,4,6-Trinitrotoluene (ND)



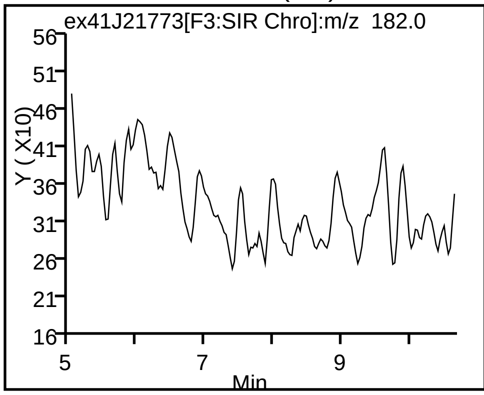
$ 11 Nitrobenzene-d5



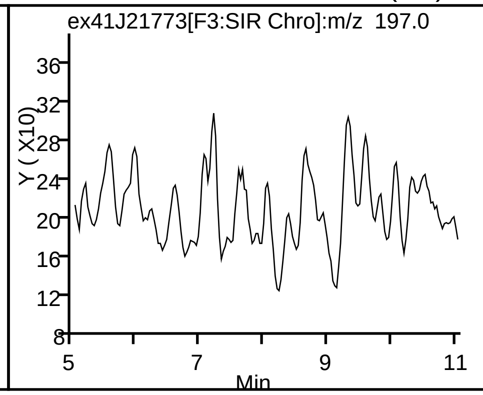
12 Nitrobenzene (ND)



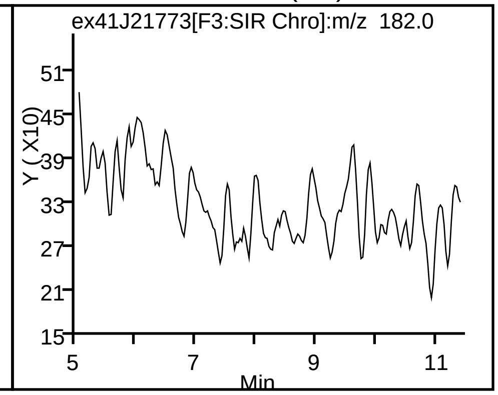
13 3,4-Dinitrotoluene (ND)



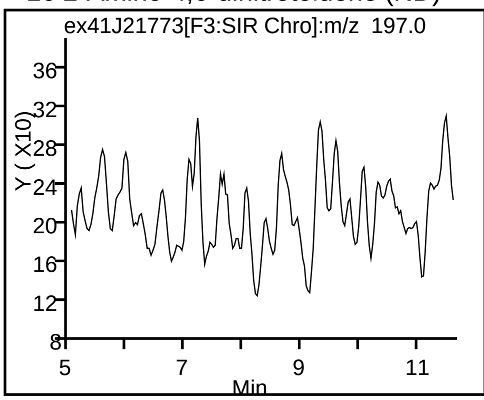
14 4-Amino-2,6-dinitrotoluene (ND)



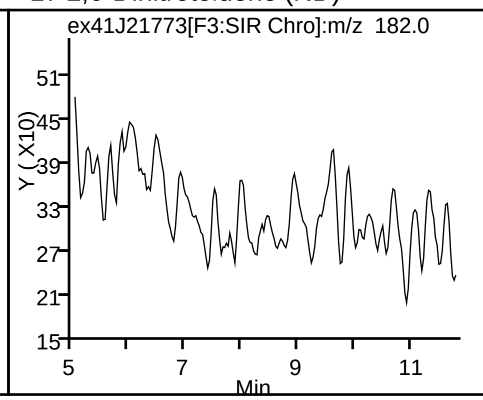
15 2,3-Dinitrotoluene (ND)



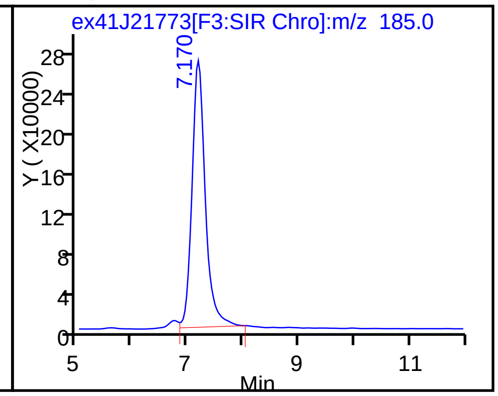
16 2-Amino-4,6-dinitrotoluene (ND)



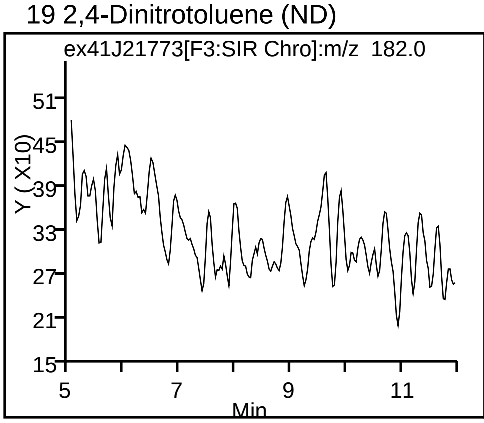
17 2,6-Dinitrotoluene (ND)



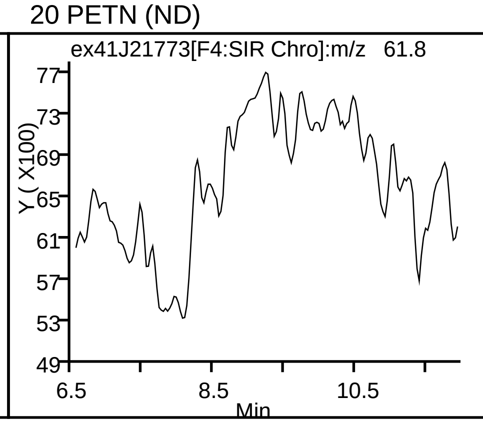
* 18 2,4-dinitrotoluene-d3



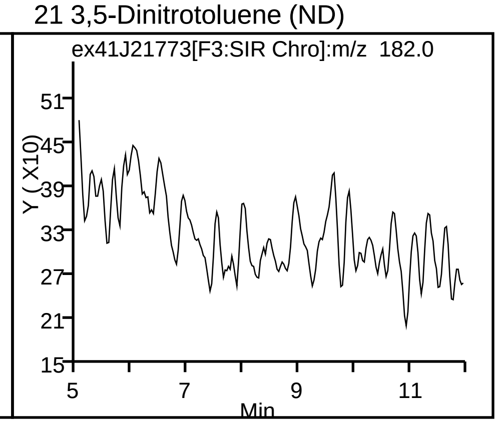
19 2,4-Dinitrotoluene (ND)



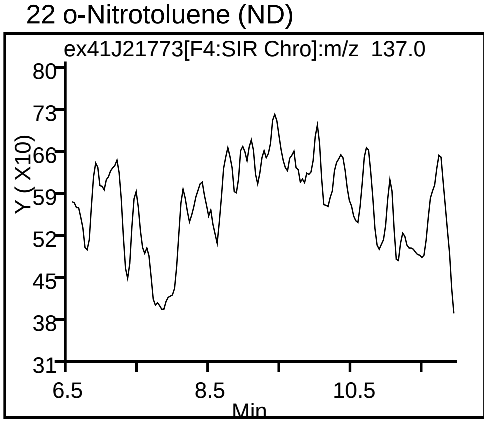
20 PETN (ND)



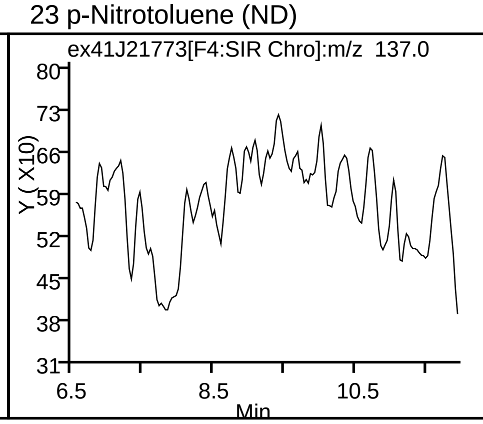
21 3,5-Dinitrotoluene (ND)



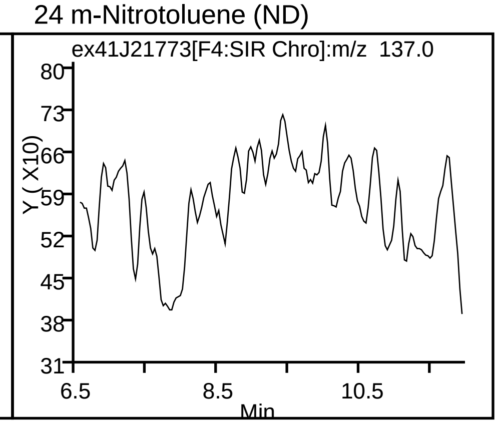
22 o-Nitrotoluene (ND)



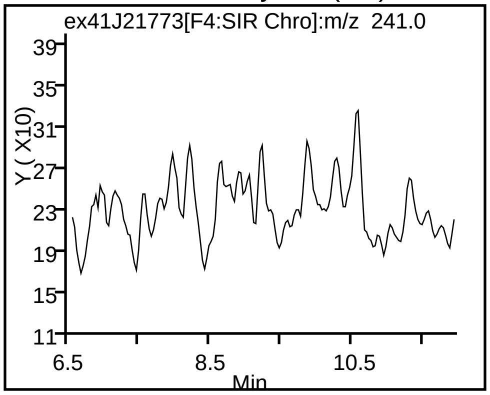
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP23 SB042 | Lab Sample ID: 280-21902-50

Matrix: Solid | Lab File ID: ex41J21775.d

Analysis Method: 8321B | Date Collected: 10/18/2011 14:40

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.02(g) | Date Analyzed: 11/03/2011 17:31

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0082
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	79		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21775.d		
Lims ID:	280-21902-B-50-B	Client ID:	SB042
Inject. Date:	03-Nov-2011 17:31:15	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-50-B 280-0002711-026		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	107
Lims Batch ID:	94610	Lims Sample ID:	26
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:43	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:35:17

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		651579	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2243683	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1613104	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	622852	78.1			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4998788	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.162							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

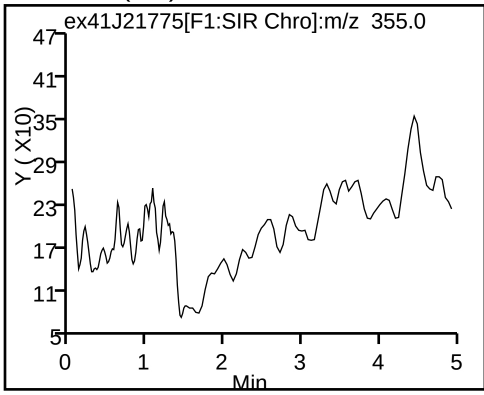
QC Flag Legend

Processing Flags
1 - Missing Peaks

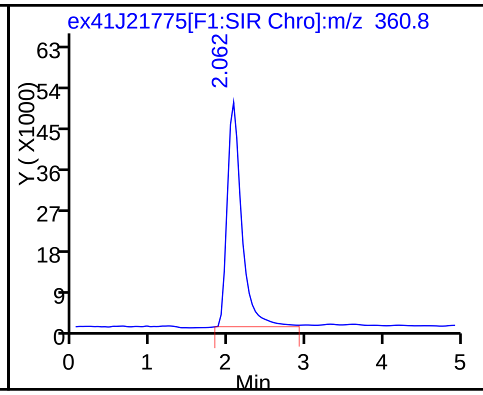
Report Date: 04-Nov-2011 06:46:49 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21775.d

Injection Date:	03-Nov-2011 17:31:15	Limit Group:	LC - 8321A Expl
Client ID:	SB042	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	26
Operator ID:		Injection Vol:	40.00 ul

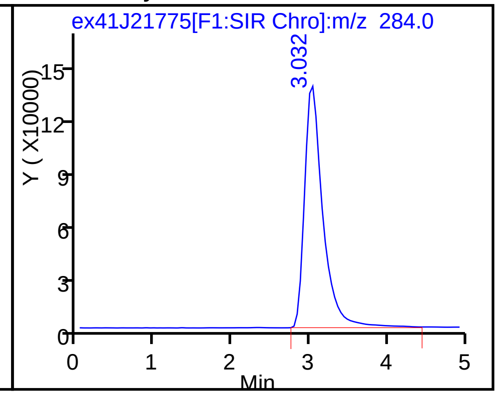
2 HMX (ND)



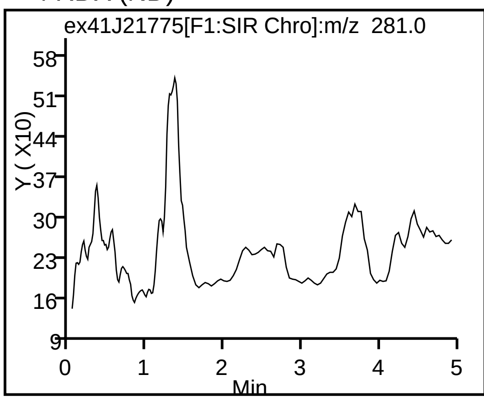
* 1 HMX-13C4



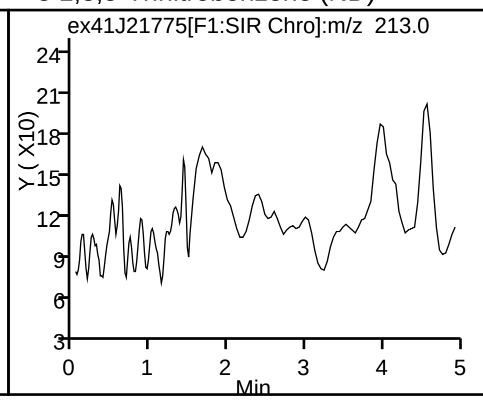
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



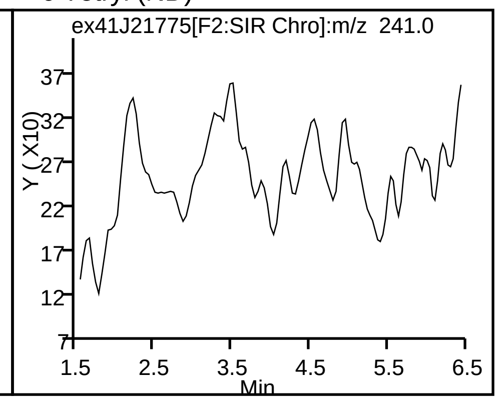
4 RDX (ND)



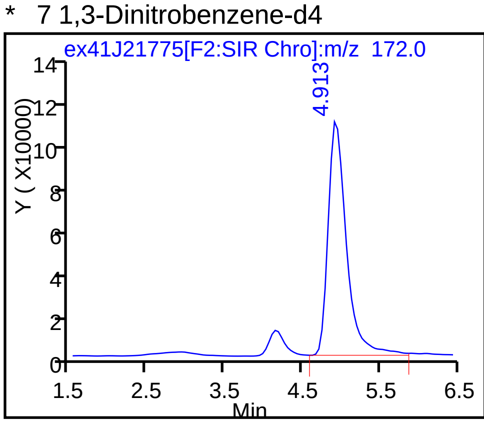
5 1,3,5-Trinitrobenzene (ND)



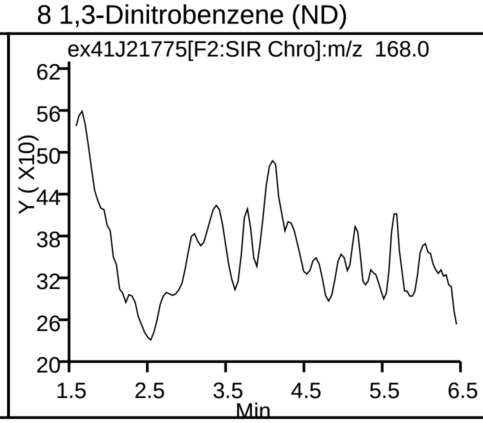
6 Tetryl (ND)



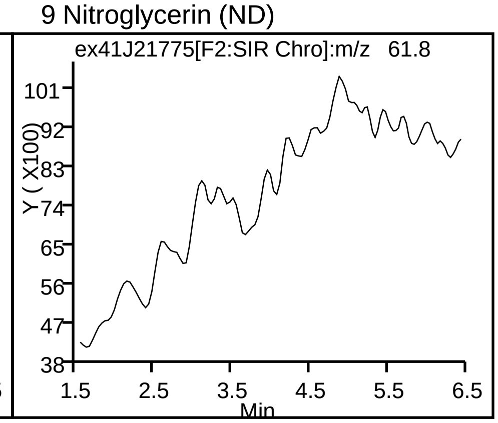
* 7 1,3-Dinitrobenzene-d4



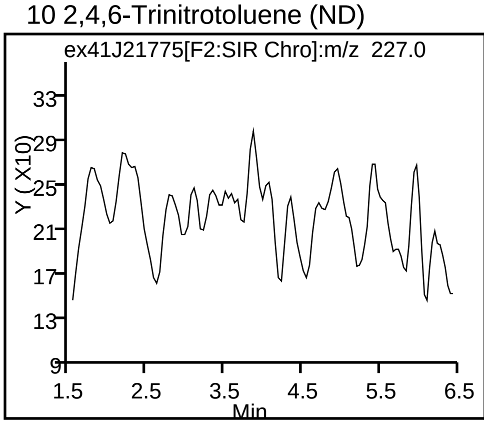
8 1,3-Dinitrobenzene (ND)



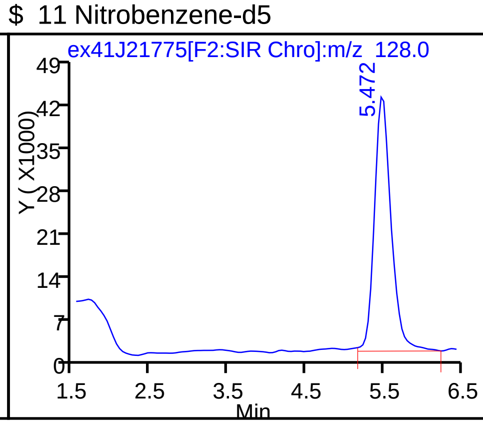
9 Nitroglycerin (ND)



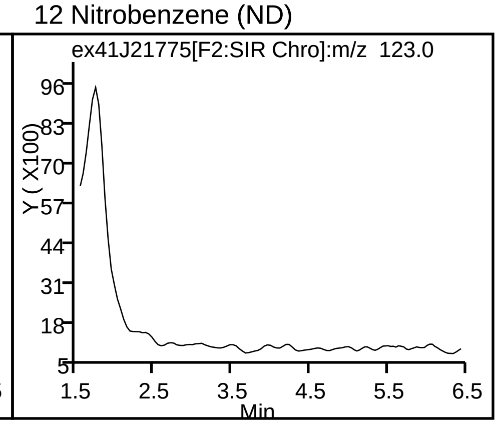
10 2,4,6-Trinitrotoluene (ND)



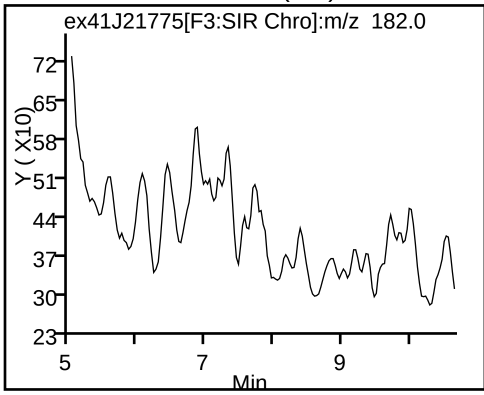
$ 11 Nitrobenzene-d5



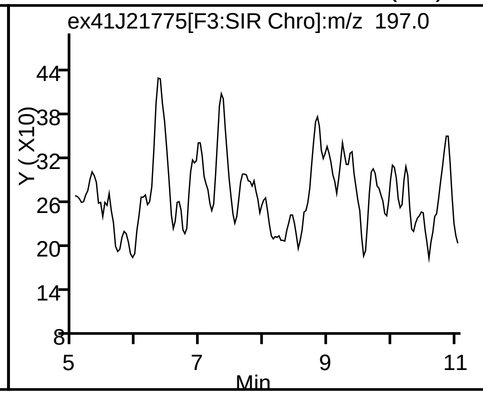
12 Nitrobenzene (ND)



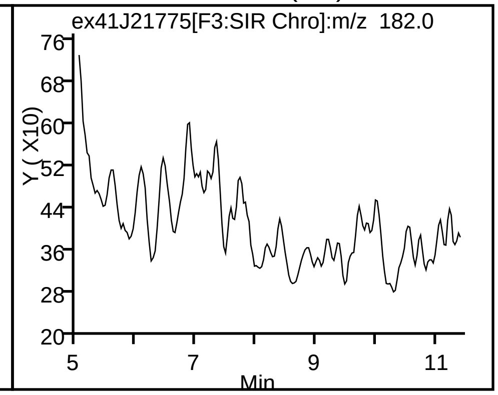
13 3,4-Dinitrotoluene (ND)



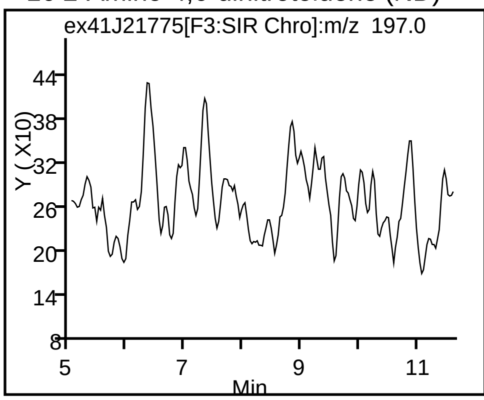
14 4-Amino-2,6-dinitrotoluene (ND)



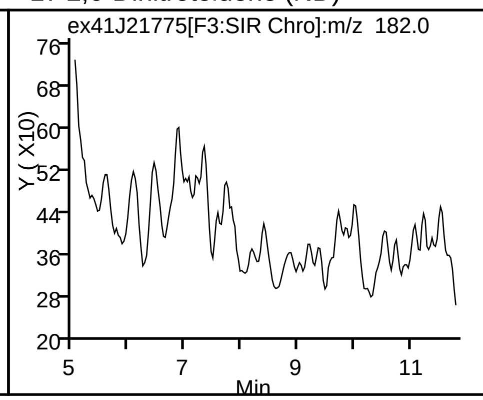
15 2,3-Dinitrotoluene (ND)



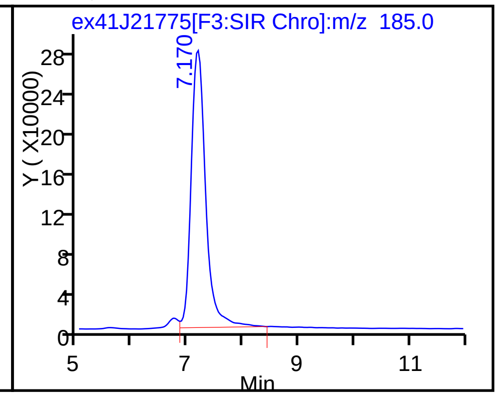
16 2-Amino-4,6-dinitrotoluene (ND)



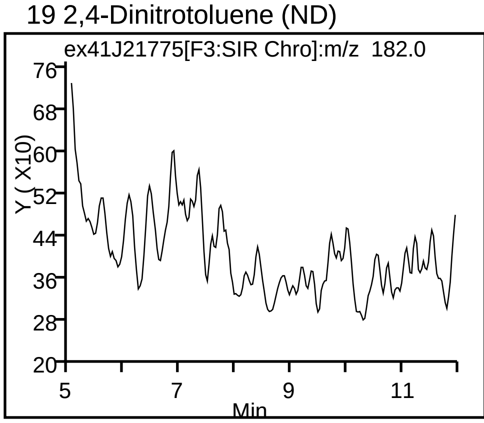
17 2,6-Dinitrotoluene (ND)



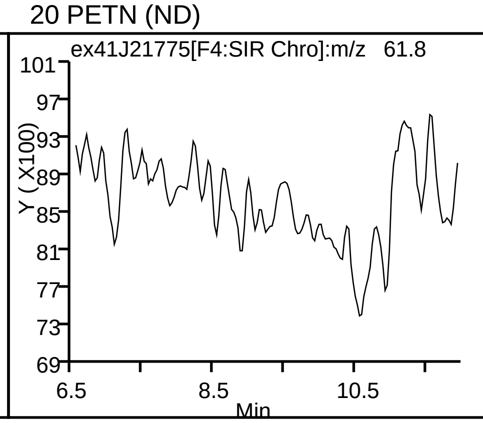
* 18 2,4-dinitrotoluene-d3



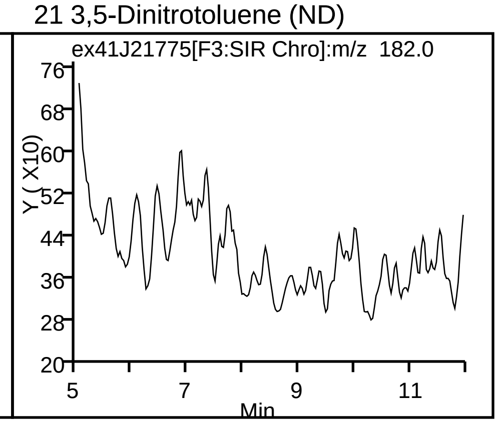
19 2,4-Dinitrotoluene (ND)



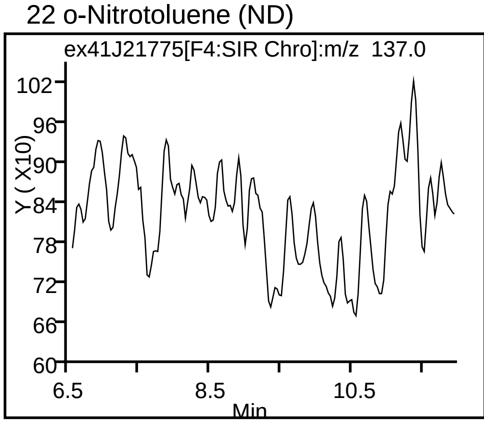
20 PETN (ND)



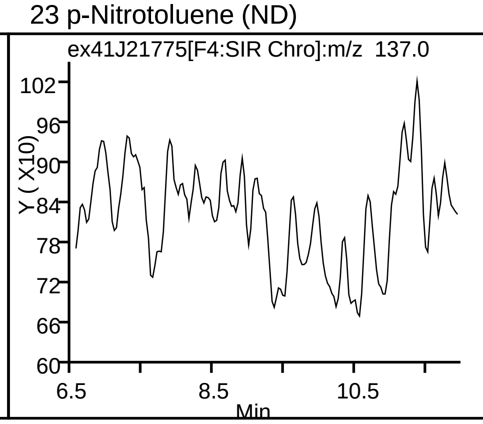
21 3,5-Dinitrotoluene (ND)



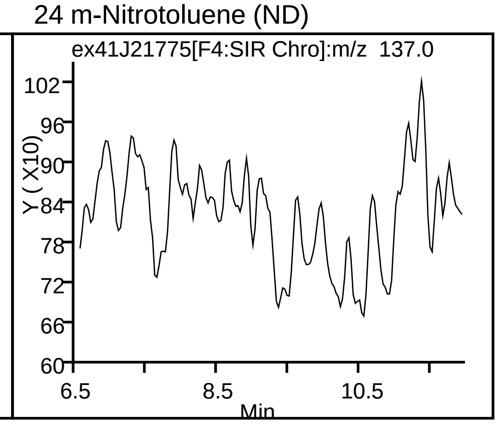
22 o-Nitrotoluene (ND)



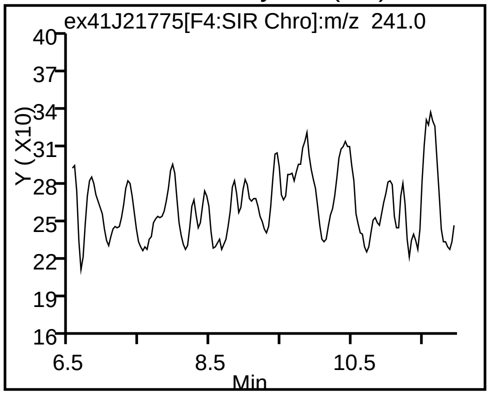
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP23 SB044 | Lab Sample ID: 280-21902-51

Matrix: Solid | Lab File ID: ex41J21776.d

Analysis Method: 8321B | Date Collected: 10/18/2011 14:40

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.90(g) | Date Analyzed: 11/03/2011 17:44

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.092	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.011	U	0.092	0.011	0.0065
118-96-7	2,4,6-Trinitrotoluene	0.011	U	0.092	0.011	0.0046
121-14-2	2,4-Dinitrotoluene	0.011	U	0.092	0.011	0.0075
606-20-2	2,6-Dinitrotoluene	0.023	U	0.092	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.092	0.023	0.011
88-72-2	2-Nitrotoluene	0.011	U	0.092	0.011	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.092	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.011	U	0.092	0.011	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.092	0.023	0.010
2691-41-0	HMX	0.011	U	0.092	0.011	0.0053
98-95-3	Nitrobenzene	0.011	U	0.092	0.011	0.0099
55-63-0	Nitroglycerin	0.011	U	0.092	0.011	0.0096
78-11-5	PETN	0.011	U	0.092	0.011	0.0047
121-82-4	RDX	0.011	U	0.092	0.011	0.0040
479-45-8	Tetryl	0.011	U	0.092	0.011	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21776.d		
Lims ID:	280-21902-A-51-E	Client ID:	SB044
Inject. Date:	03-Nov-2011 17:44:48	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-51-E 280-0002711-027		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	108
Lims Batch ID:	94610	Lims Sample ID:	27
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:43	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:35:26

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		669155	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	2.991	0.000		2428256	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1709643	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	643808	76.2			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4829607	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.162							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

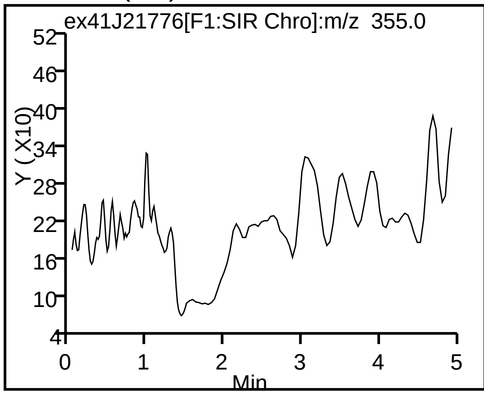
QC Flag Legend

Processing Flags
1 - Missing Peaks

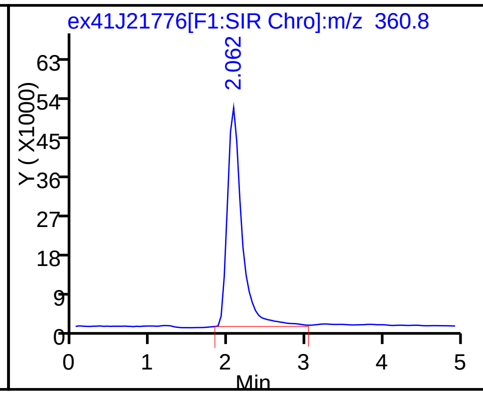
Report Date: 04-Nov-2011 06:46:50 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21776.d		
Injection Date:	03-Nov-2011 17:44:48	Limit Group:	LC - 8321A Expl
Client ID:	SB044	Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	27
Operator ID:		Injection Vol:	40.00 ul

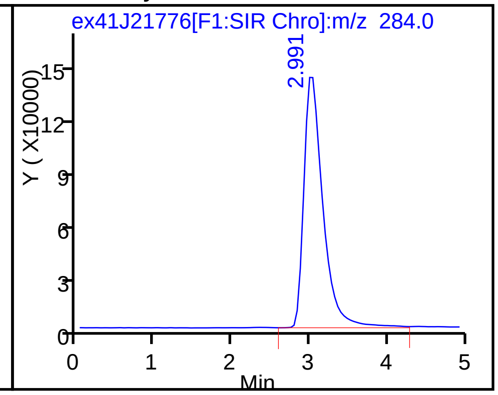
2 HMX (ND)



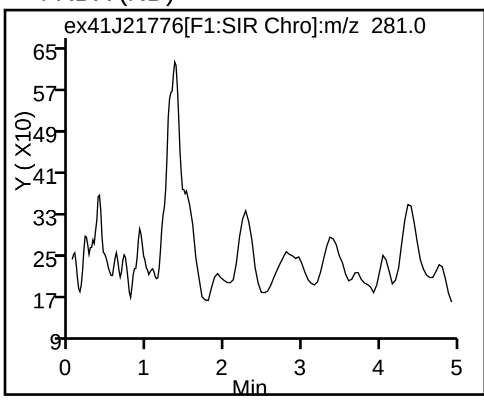
* 1 HMX-13C4



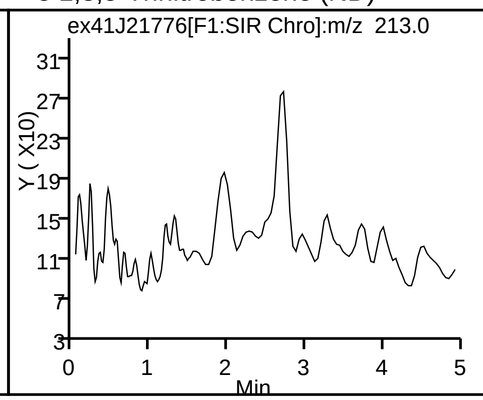
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



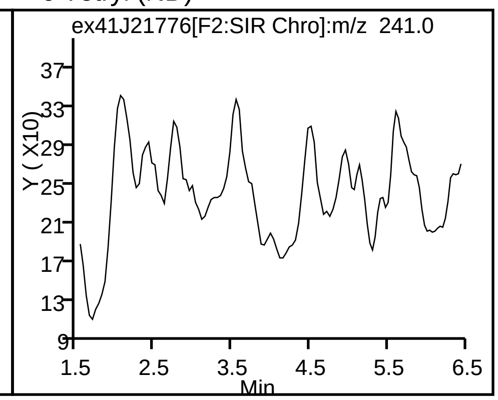
4 RDX (ND)



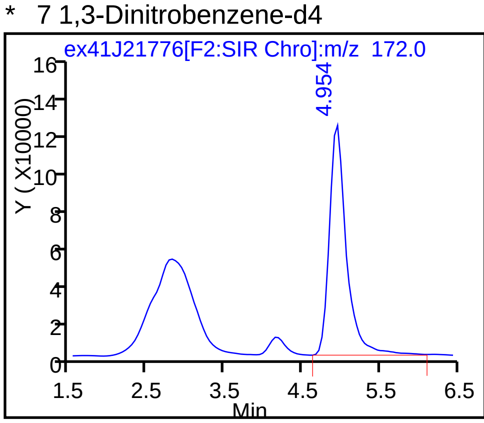
5 1,3,5-Trinitrobenzene (ND)



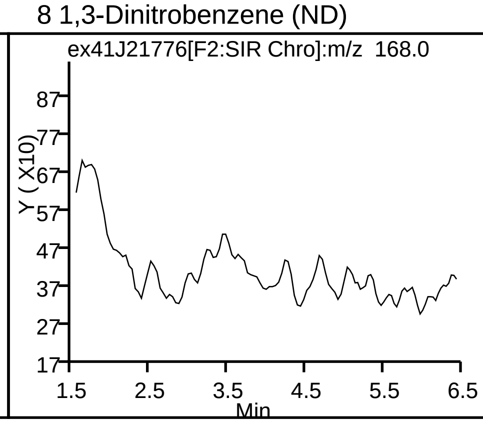
6 Tetryl (ND)



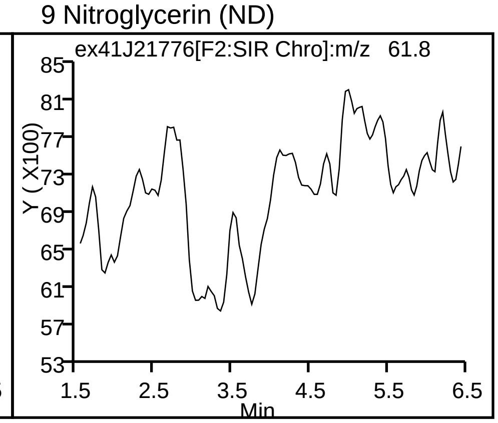
* 7 1,3-Dinitrobenzene-d4



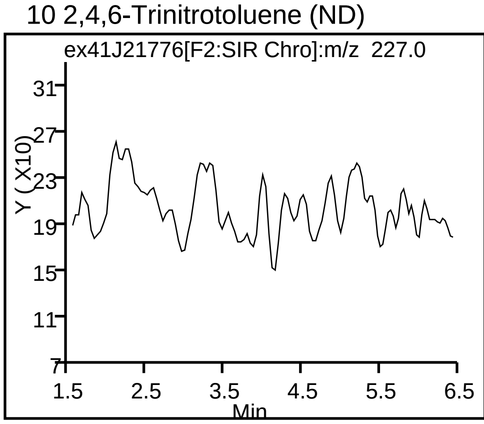
8 1,3-Dinitrobenzene (ND)



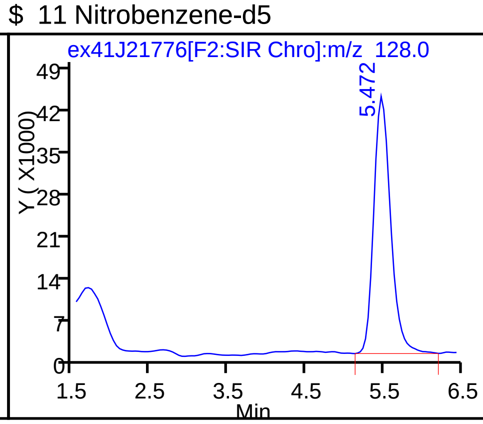
9 Nitroglycerin (ND)



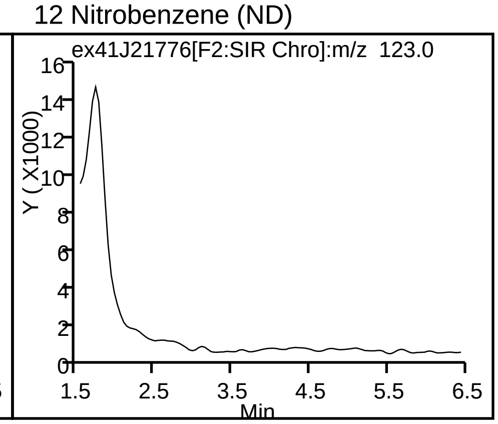
10 2,4,6-Trinitrotoluene (ND)



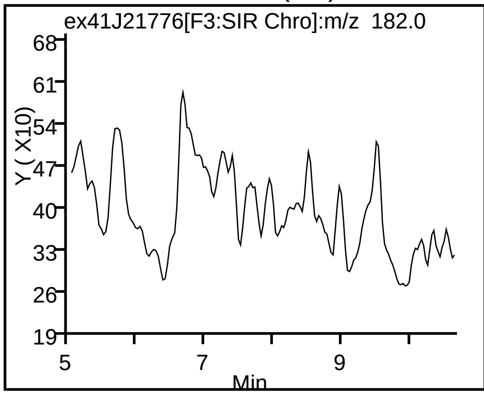
$ 11 Nitrobenzene-d5



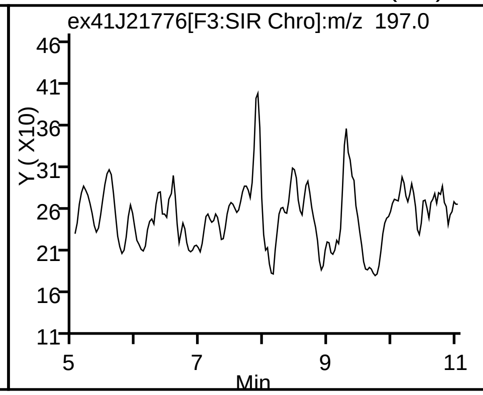
12 Nitrobenzene (ND)



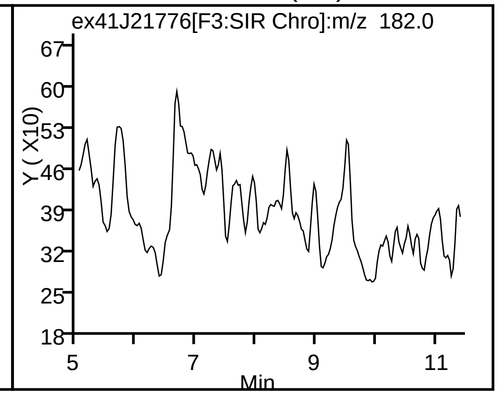
13 3,4-Dinitrotoluene (ND)



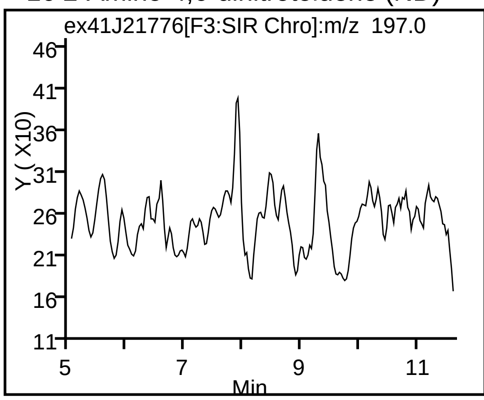
14 4-Amino-2,6-dinitrotoluene (ND)



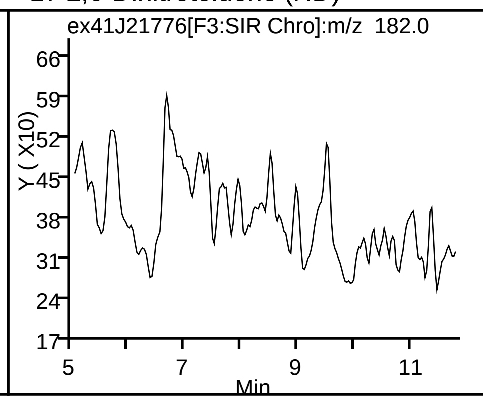
15 2,3-Dinitrotoluene (ND)



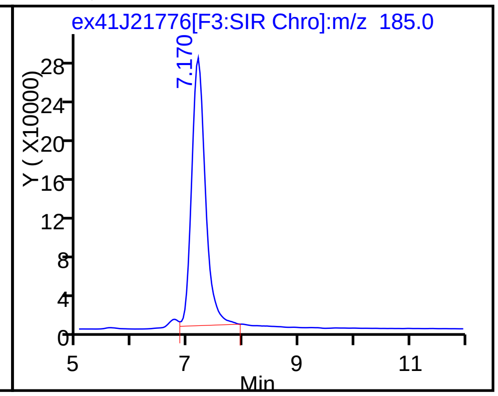
16 2-Amino-4,6-dinitrotoluene (ND)



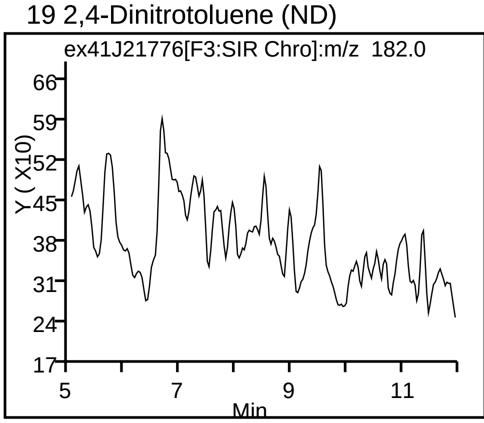
17 2,6-Dinitrotoluene (ND)



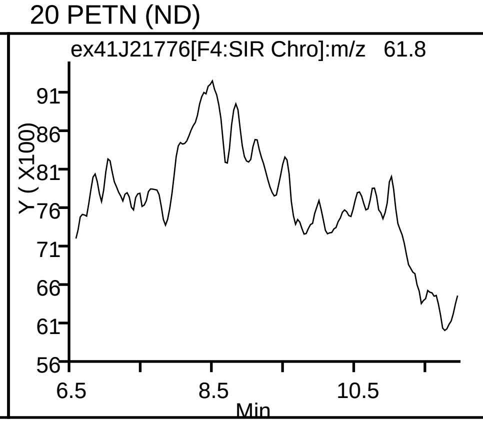
* 18 2,4-dinitrotoluene-d3



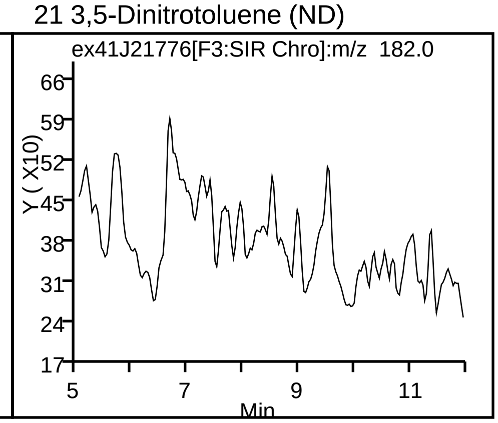
19 2,4-Dinitrotoluene (ND)



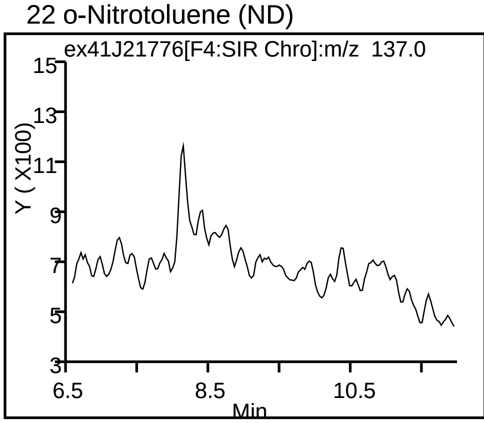
20 PETN (ND)



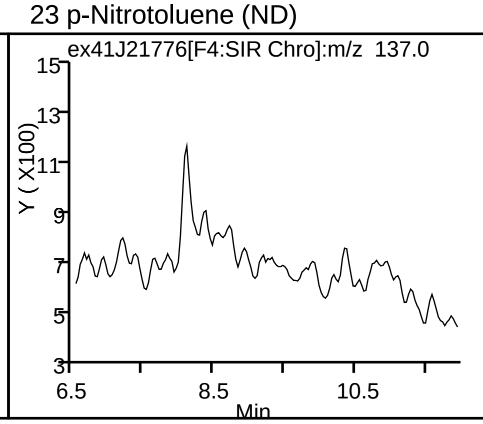
21 3,5-Dinitrotoluene (ND)



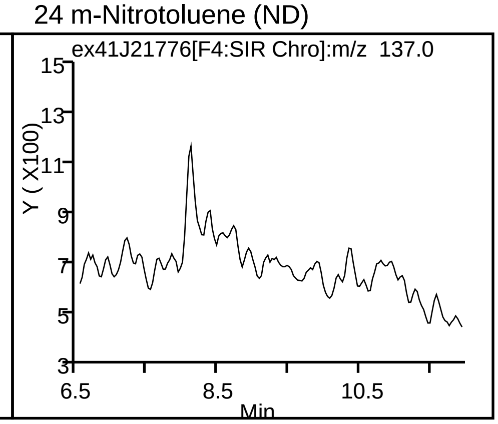
22 o-Nitrotoluene (ND)



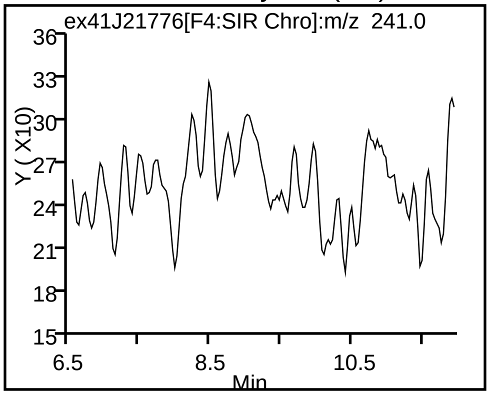
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP23 SB043 | Lab Sample ID: 280-21902-52

Matrix: Solid | Lab File ID: ex41J21780.d

Analysis Method: 8321B | Date Collected: 10/18/2011 14:50

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.08(g) | Date Analyzed: 11/03/2011 18:39

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21780.d		
Lims ID:	280-21902-B-52-B	Client ID:	SB043
Inject. Date:	03-Nov-2011 18:39:40	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-52-B 280-0002711-031		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	111
Lims Batch ID:	94611	Lims Sample ID:	31
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:50	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 04-Nov-2011 06:36:18

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		591251	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1966802	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1450189	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	569085	79.4			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4593608	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

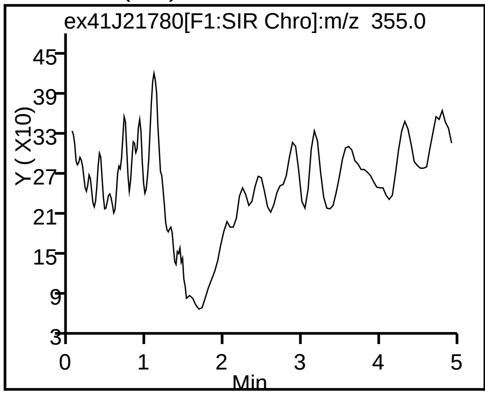
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:46:53 Chrom Revision: 1.2 13-Jul-2011 10:43:06

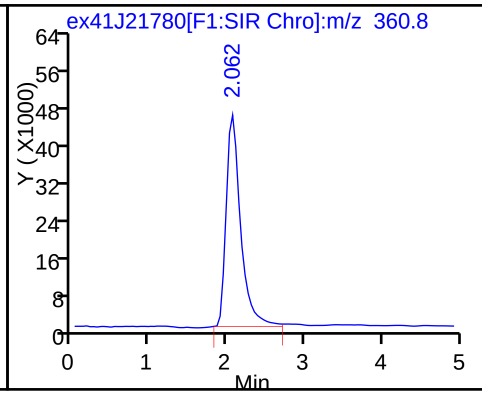
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21780.d

Injection Date:	03-Nov-2011 18:39:40	Limit Group:	LC - 8321A Expl
Client ID:	SB043	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	31
Operator ID:		Injection Vol:	40.00 ul

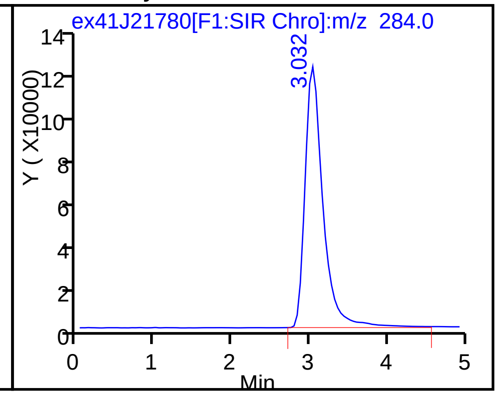
2 HMX (ND)



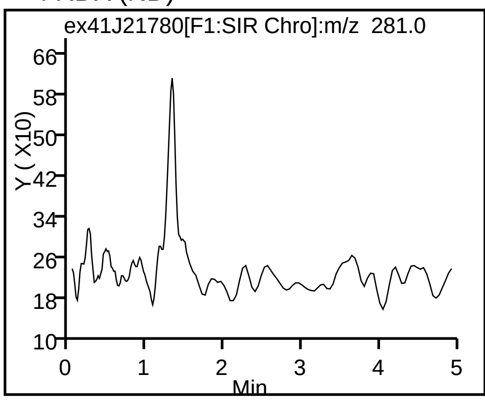
* 1 HMX-13C4



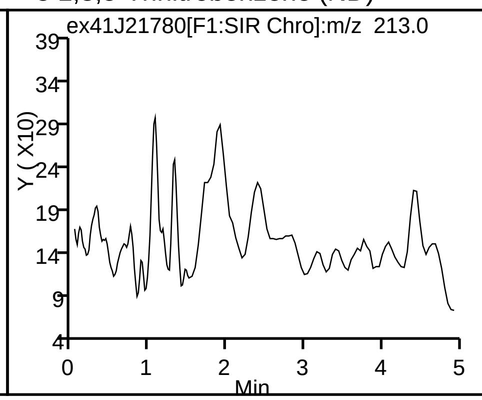
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



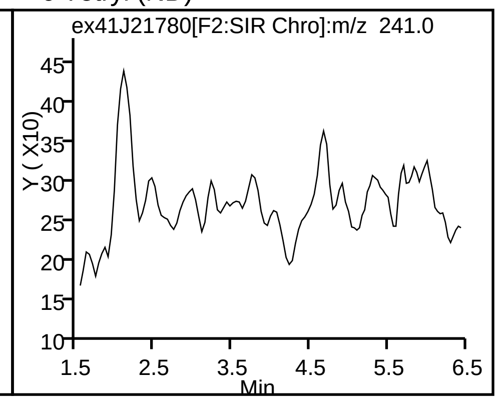
4 RDX (ND)



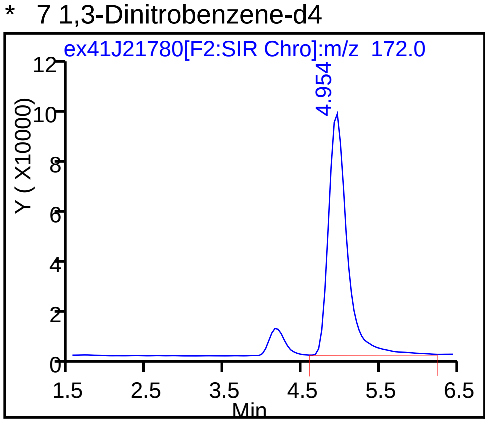
5 1,3,5-Trinitrobenzene (ND)



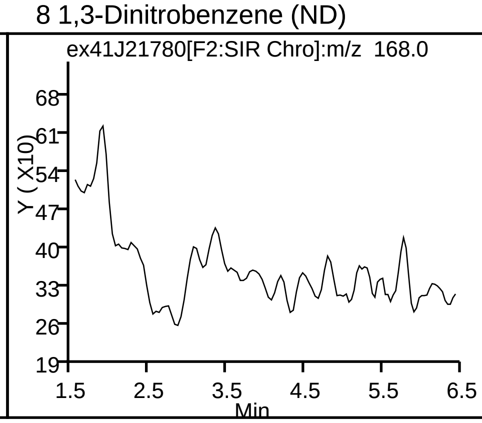
6 Tetryl (ND)



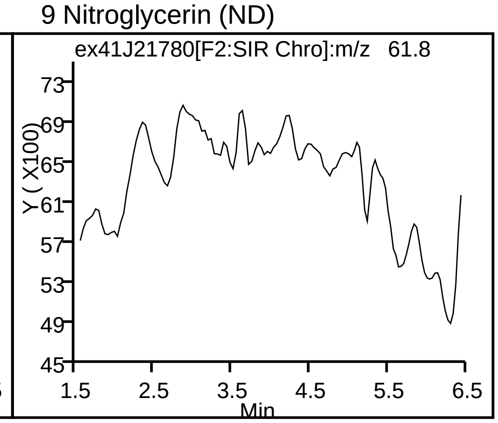
* 7 1,3-Dinitrobenzene-d4



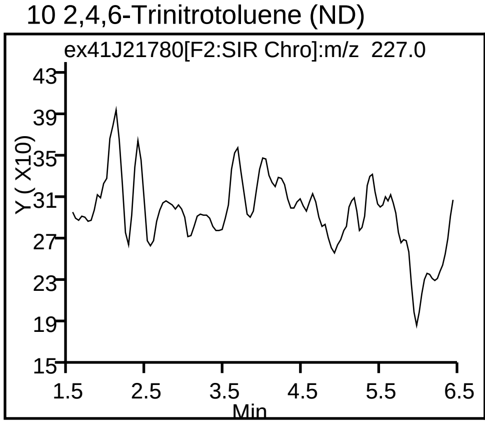
8 1,3-Dinitrobenzene (ND)



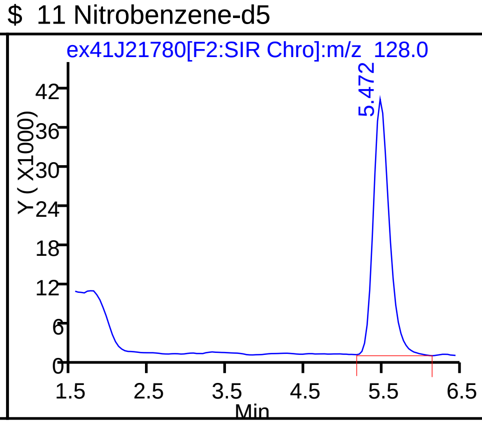
9 Nitroglycerin (ND)



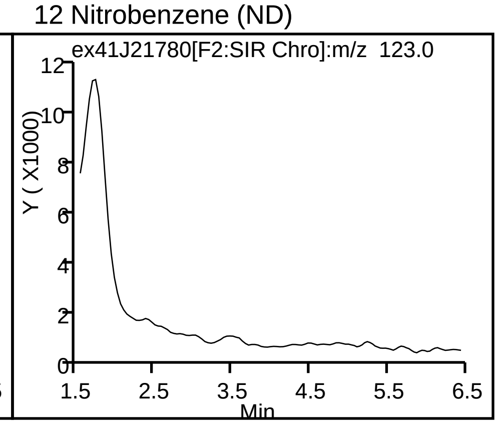
10 2,4,6-Trinitrotoluene (ND)



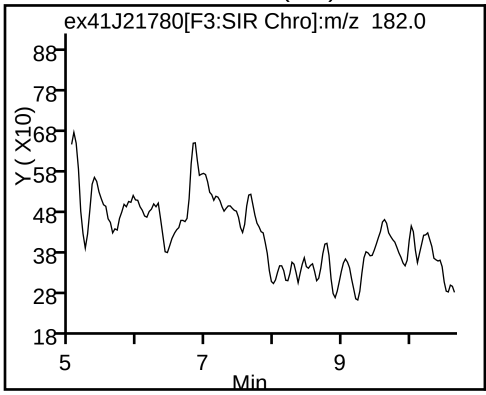
$ 11 Nitrobenzene-d5



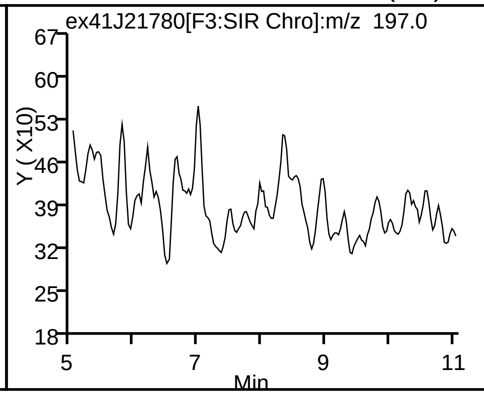
12 Nitrobenzene (ND)



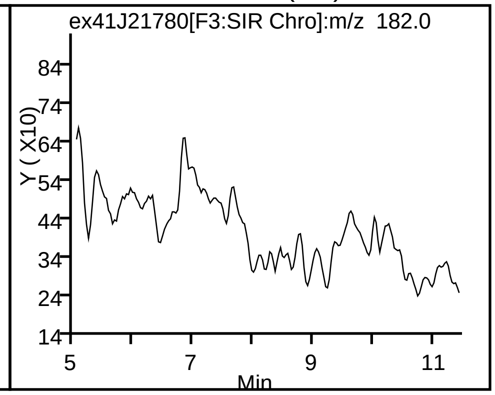
13 3,4-Dinitrotoluene (ND)



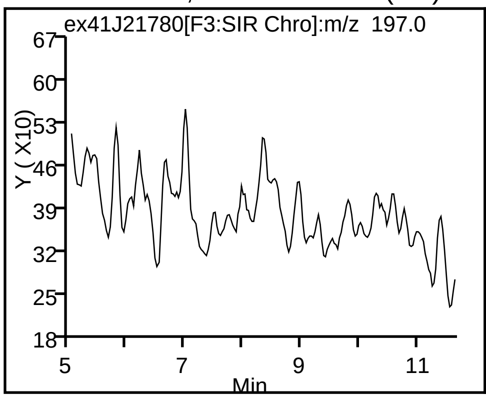
14 4-Amino-2,6-dinitrotoluene (ND)



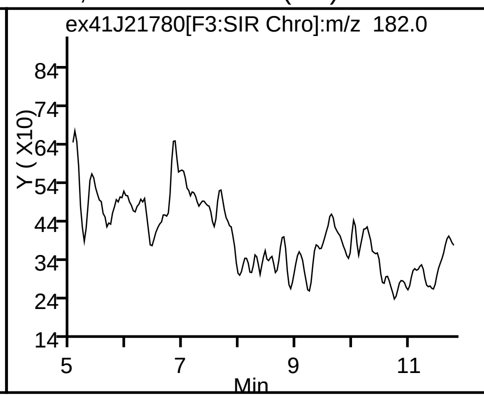
15 2,3-Dinitrotoluene (ND)



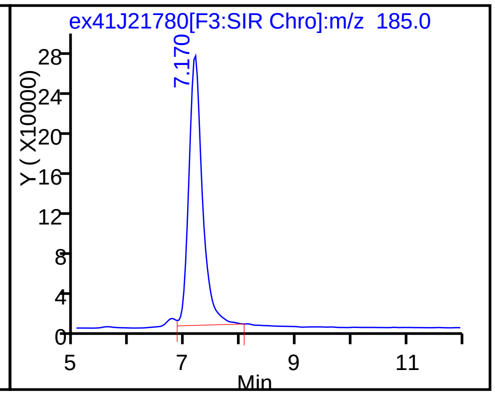
16 2-Amino-4,6-dinitrotoluene (ND)



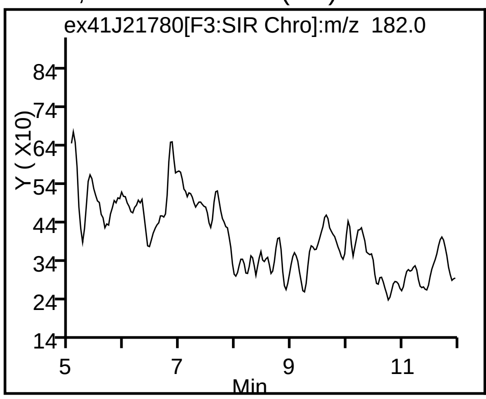
17 2,6-Dinitrotoluene (ND)



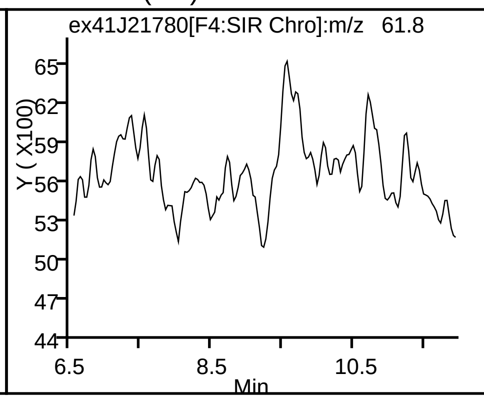
* 18 2,4-dinitrotoluene-d3



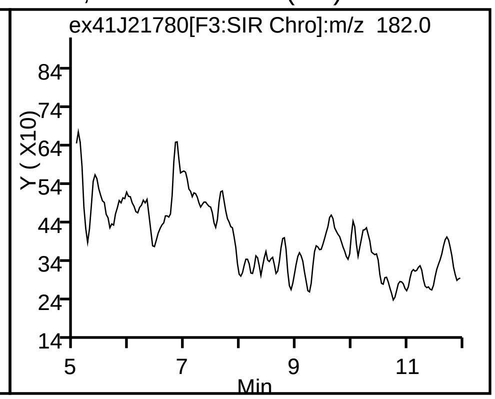
19 2,4-Dinitrotoluene (ND)



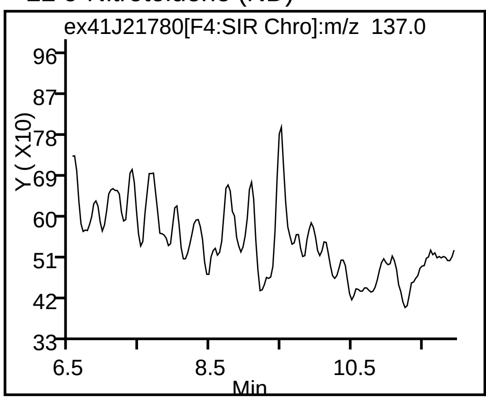
20 PETN (ND)



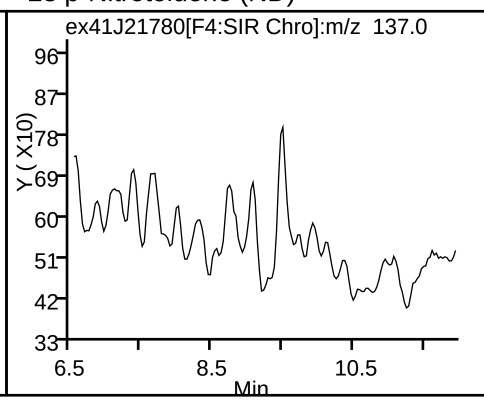
21 3,5-Dinitrotoluene (ND)



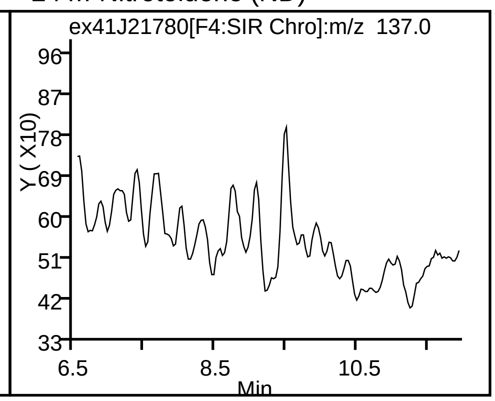
22 o-Nitrotoluene (ND)



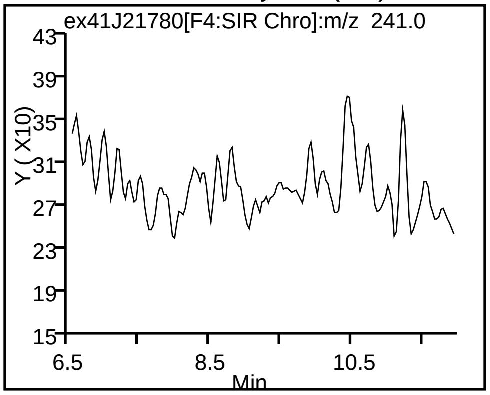
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP03 IS009   Lab Sample ID: 280-21902-53

Matrix: Solid   Lab File ID: ex41J21652.d

Analysis Method: 8321B   Date Collected: 10/18/2011 14:28

Extraction Method: 8330B   Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.05(g)   Date Analyzed: 11/02/2011 08:11

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U Q	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21652.d		
Lims ID:	280-21902-A-53-D	Client ID:	IS009
Inject. Date:	02-Nov-2011 08:11:49	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-53-D 280-0002689-176		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	109
Lims Batch ID:	94252	Lims Sample ID:	176
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:30	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		562150	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2099019	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1304753	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	490484	76.1			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		3855941	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

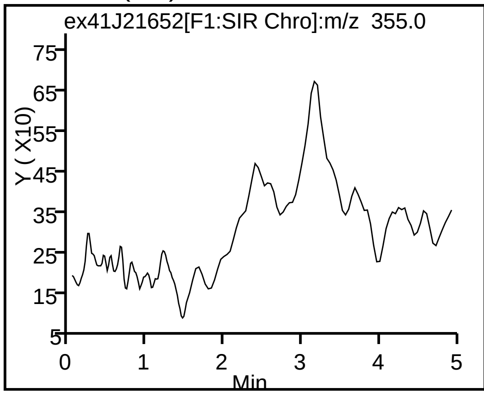
QC Flag Legend

Processing Flags
1 - Missing Peaks

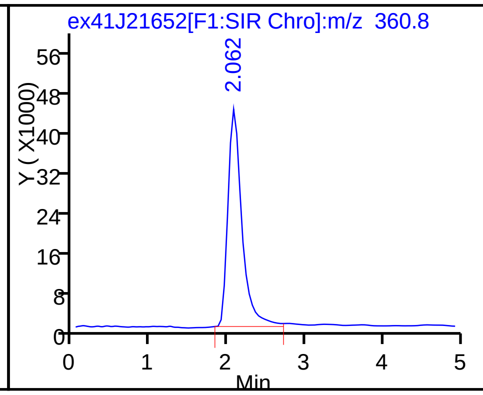
Report Date: 02-Nov-2011 10:22:32 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21652.d

Injection Date:	02-Nov-2011 08:11:49	Limit Group:	LC - 8321A Expl
Client ID:	IS009	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	176
Operator ID:		Injection Vol:	40.00 ul

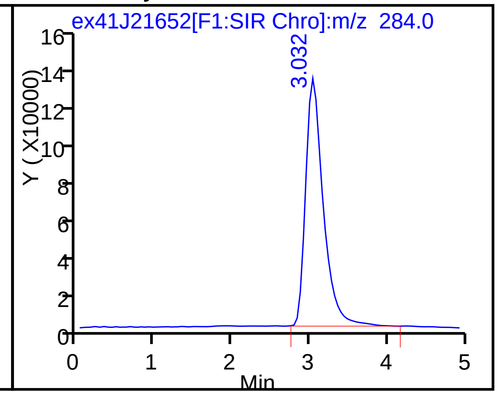
2 HMX (ND)



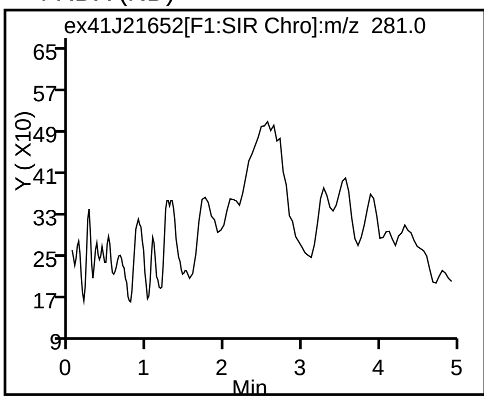
* 1 HMX-13C4



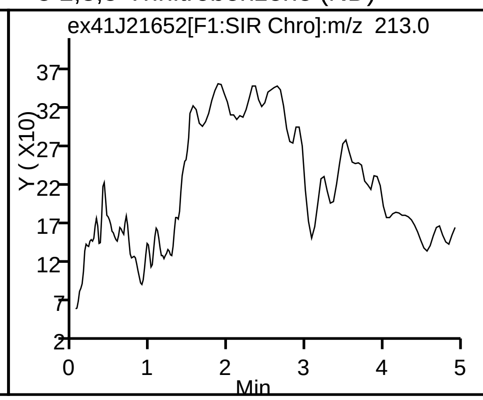
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



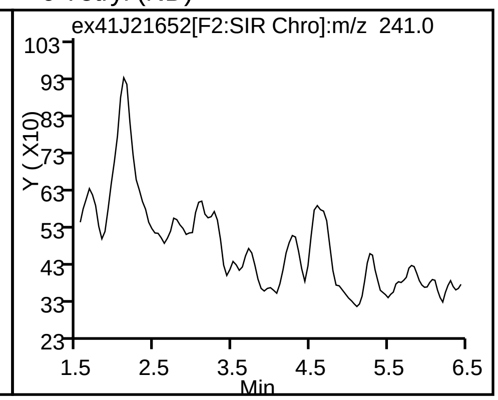
4 RDX (ND)



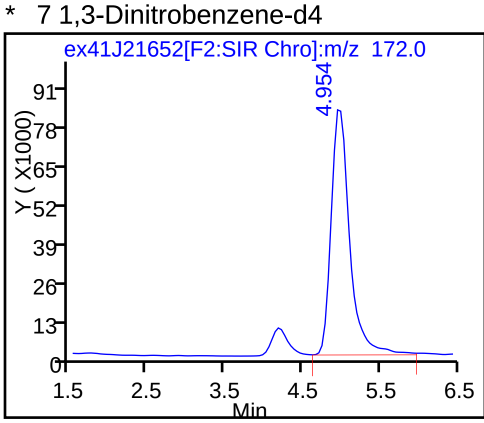
5 1,3,5-Trinitrobenzene (ND)



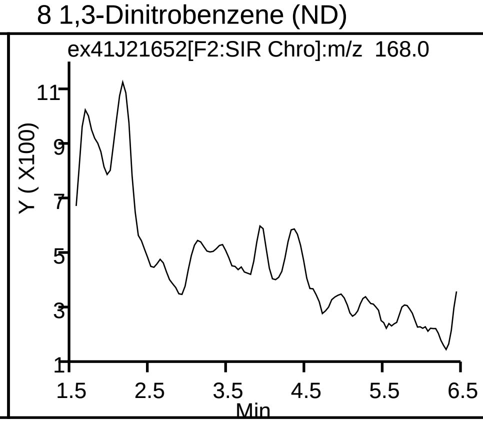
6 Tetryl (ND)



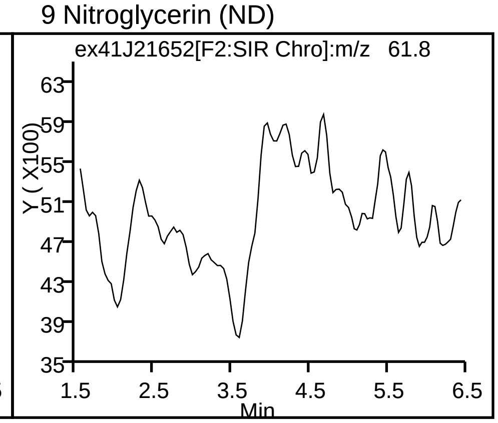
* 7 1,3-Dinitrobenzene-d4



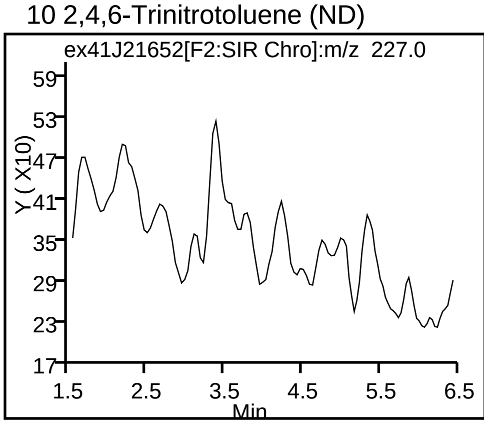
8 1,3-Dinitrobenzene (ND)



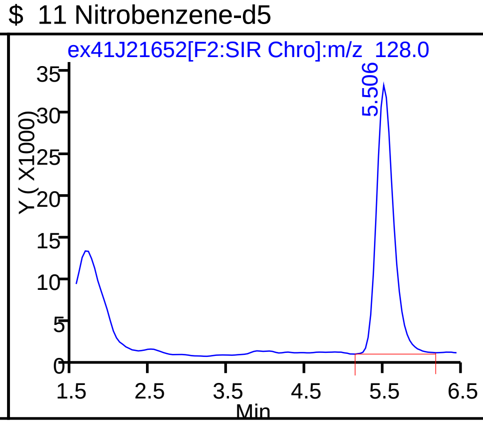
9 Nitroglycerin (ND)



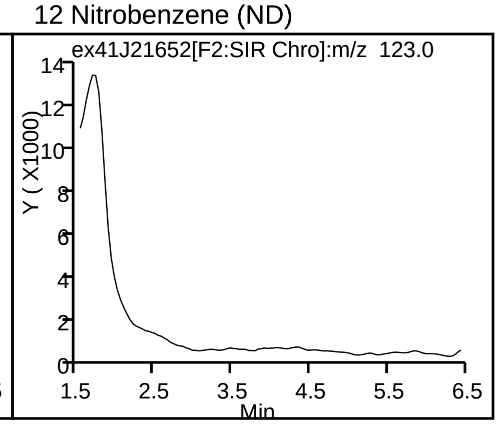
10 2,4,6-Trinitrotoluene (ND)



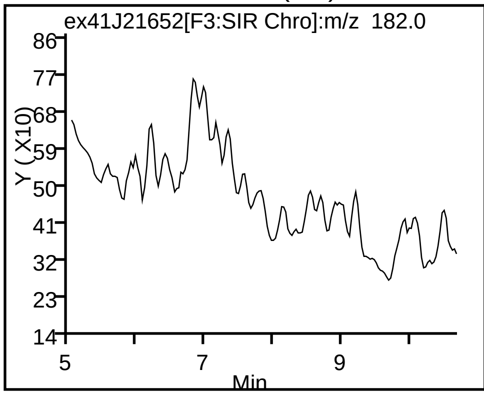
$ 11 Nitrobenzene-d5



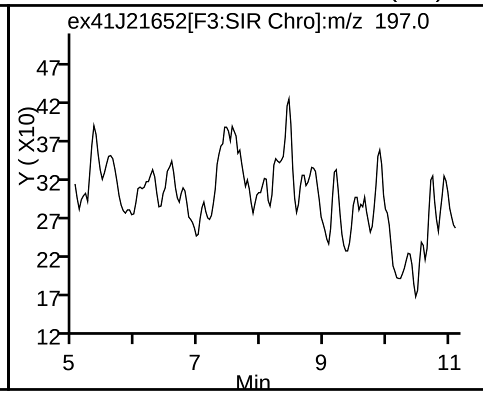
12 Nitrobenzene (ND)



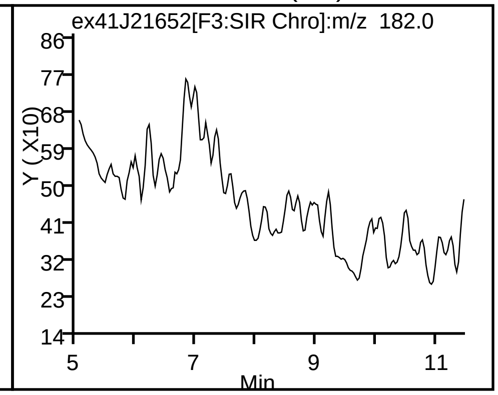
13 3,4-Dinitrotoluene (ND)



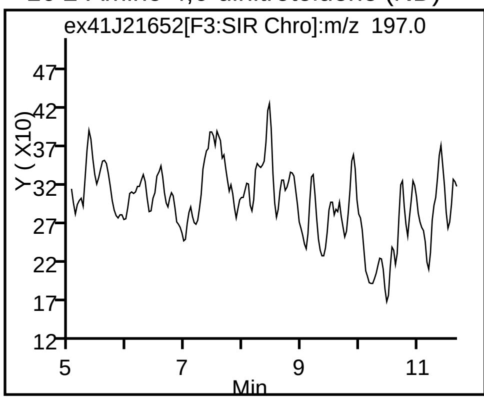
14 4-Amino-2,6-dinitrotoluene (ND)



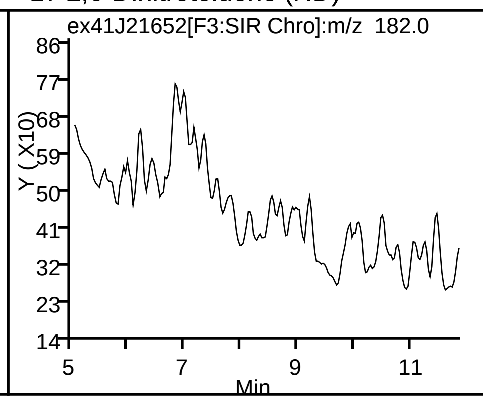
15 2,3-Dinitrotoluene (ND)



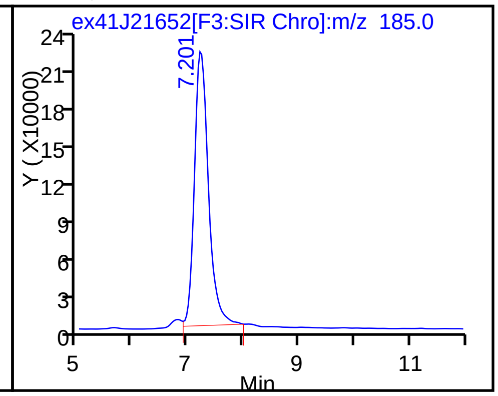
16 2-Amino-4,6-dinitrotoluene (ND)



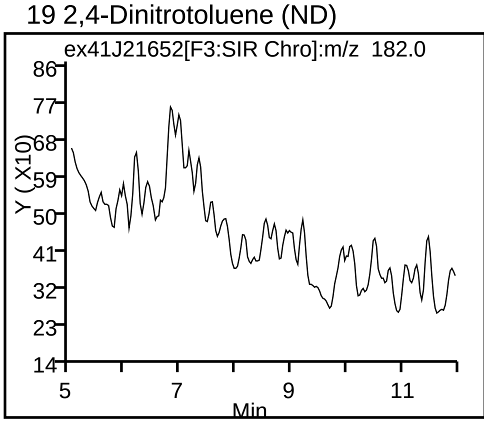
17 2,6-Dinitrotoluene (ND)



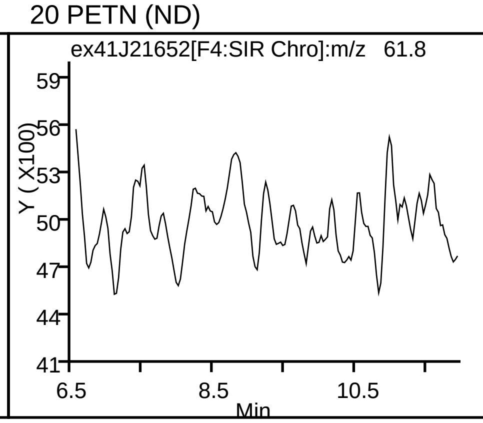
* 18 2,4-dinitrotoluene-d3



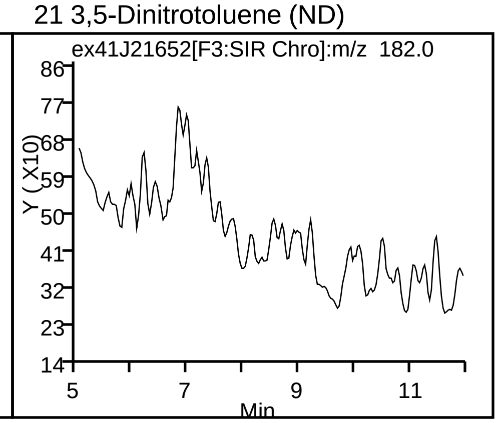
19 2,4-Dinitrotoluene (ND)



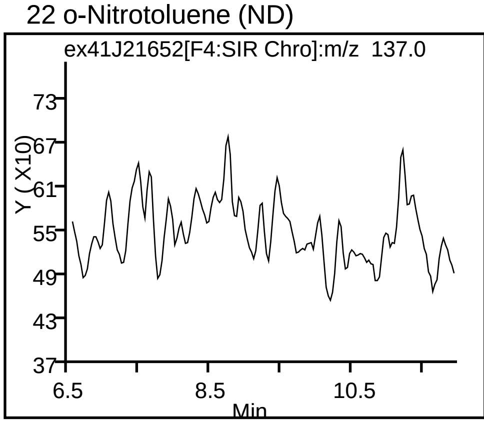
20 PETN (ND)



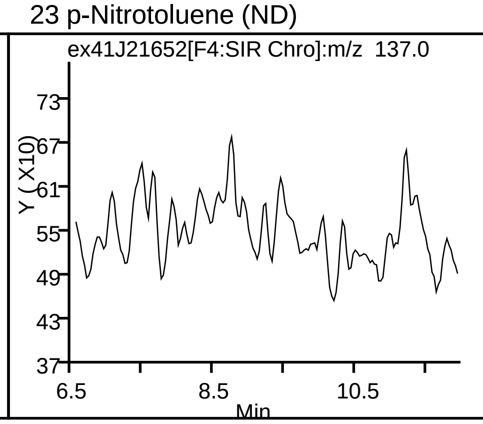
21 3,5-Dinitrotoluene (ND)



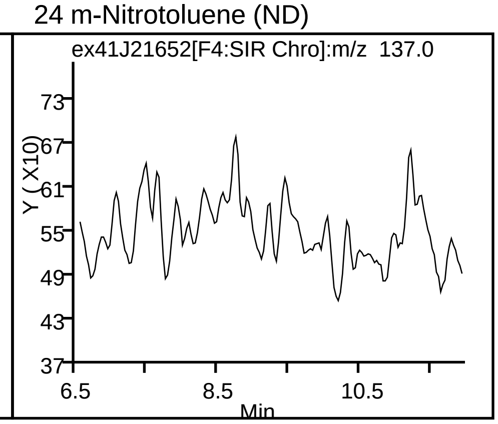
22 o-Nitrotoluene (ND)



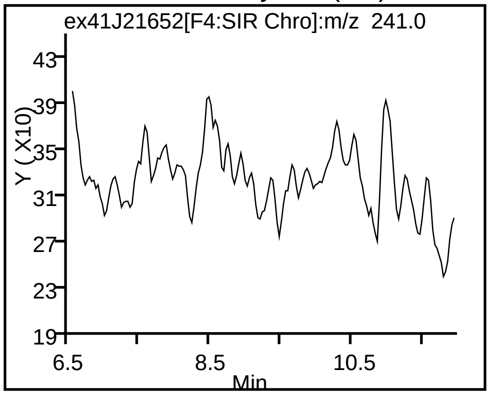
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP03 IS008 Lab Sample ID: 280-21902-54

Matrix: Solid Lab File ID: ex41J21653.d

Analysis Method: 8321B Date Collected: 10/18/2011 13:45

Extraction Method: 8330B Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.70(g) Date Analyzed: 11/02/2011 08:25

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.023	U Q	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U Q	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0054
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.093	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0098
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	89		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21653.d
Lims ID: 280-21902-A-54-D Client ID: IS008
Inject. Date: 02-Nov-2011 08:25:39 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-21902-A-54-D 280-0002689-177
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 110
Lims Batch ID: 94252 Lims Sample ID: 177
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m
Last Update: 02-Nov-2011 10:22:30 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		491168	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1624358	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1102812	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	480873	88.3			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

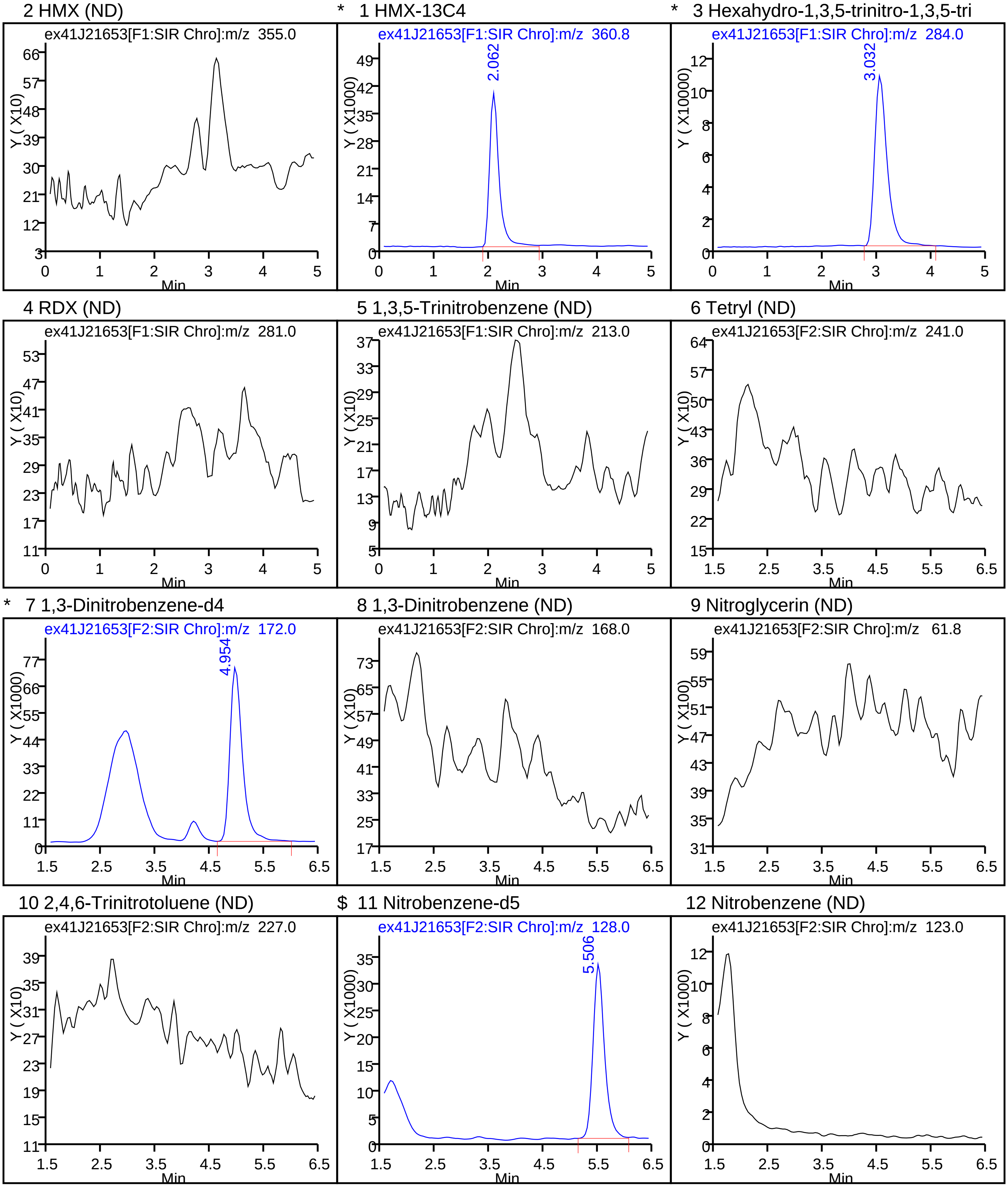
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.201	0.000		3694480	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.262							
20	PETN									1
4	61.8		7.768							
21	3,5-Dinitrotoluene									
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

QC Flag Legend

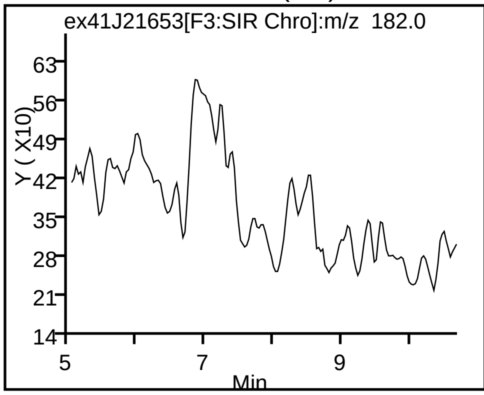
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 10:22:33 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21653.d

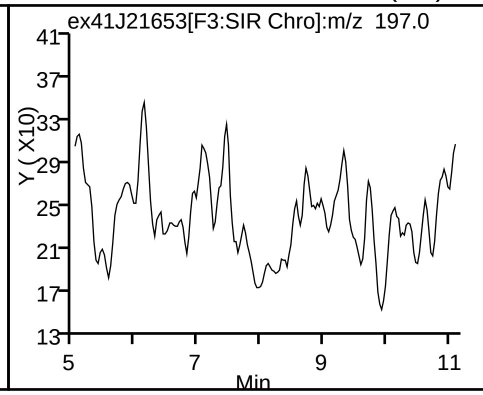
Injection Date:	02-Nov-2011 08:25:39	Limit Group:	LC - 8321A Expl
Client ID:	IS008	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	177
Operator ID:		Injection Vol:	40.00 ul



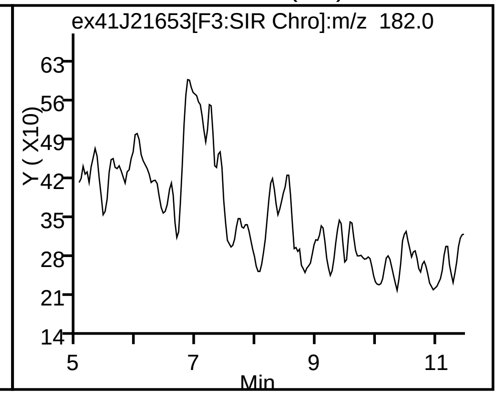
13 3,4-Dinitrotoluene (ND)



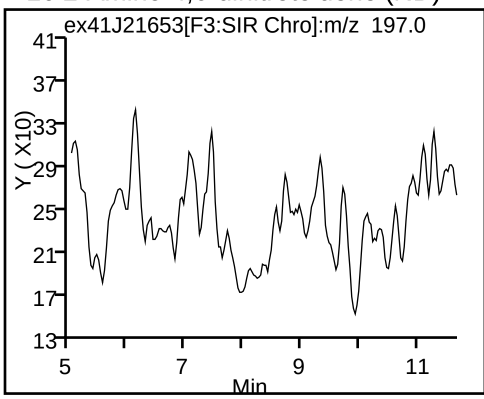
14 4-Amino-2,6-dinitrotoluene (ND)



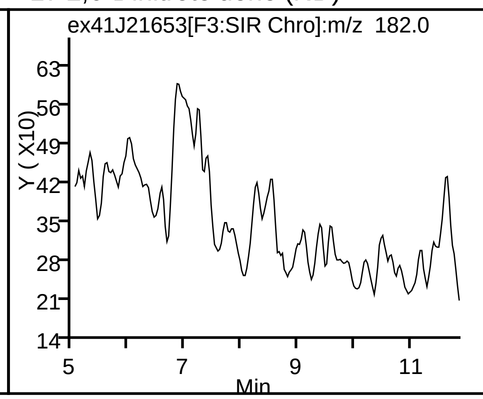
15 2,3-Dinitrotoluene (ND)



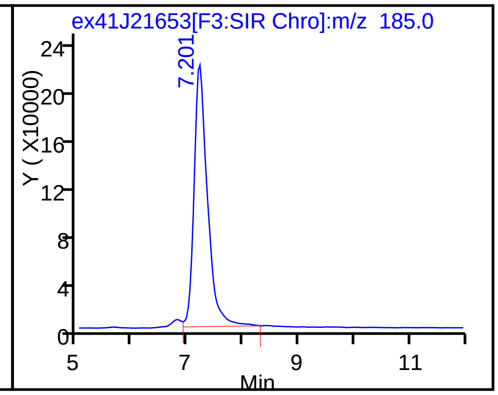
16 2-Amino-4,6-dinitrotoluene (ND)



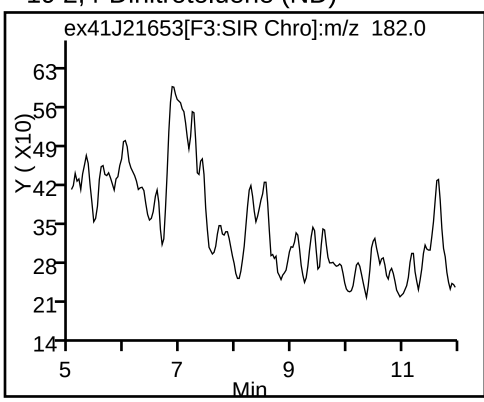
17 2,6-Dinitrotoluene (ND)



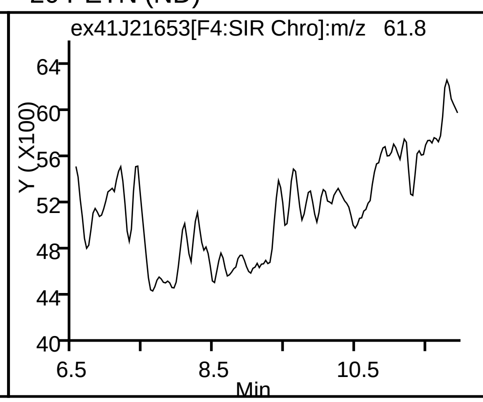
* 18 2,4-dinitrotoluene-d3



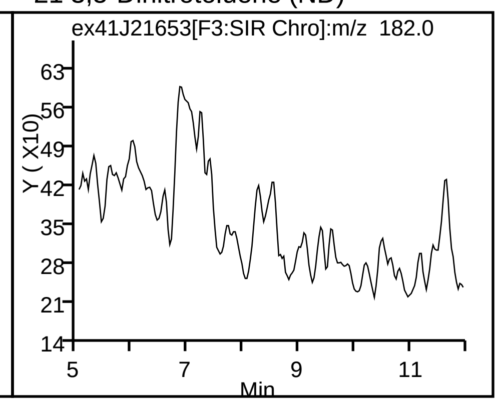
19 2,4-Dinitrotoluene (ND)



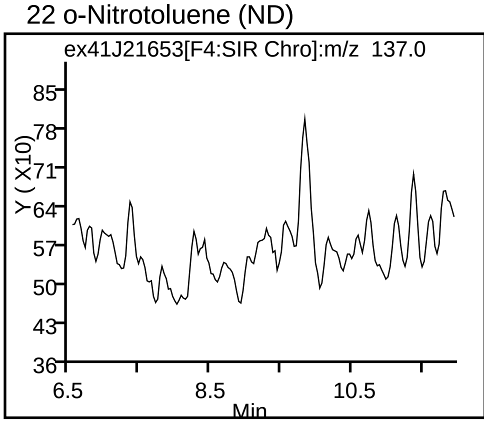
20 PETN (ND)



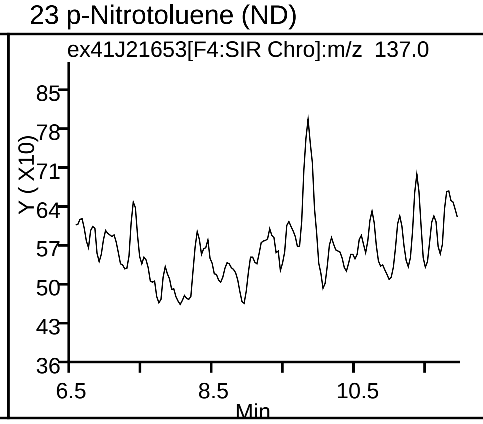
21 3,5-Dinitrotoluene (ND)



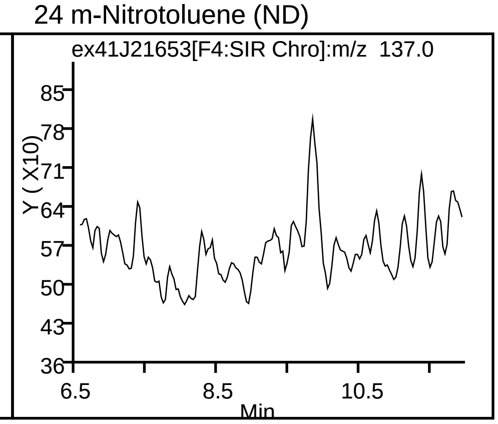
22 o-Nitrotoluene (ND)



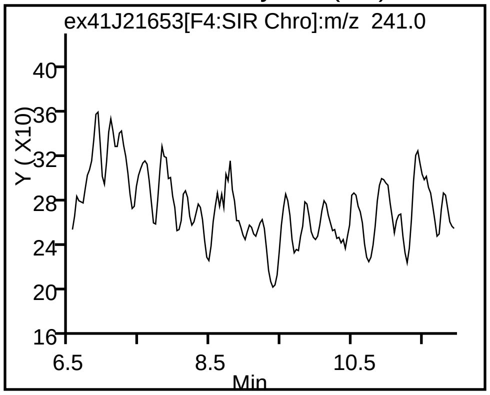
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP03 IS007 | Lab Sample ID: 280-21902-55

Matrix: Solid | Lab File ID: ex41J21654.d

Analysis Method: 8321B | Date Collected: 10/18/2011 12:45

Extraction Method: 8330B | Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.11(g) | Date Analyzed: 11/02/2011 08:39

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U Q	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U Q	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21654.d		
Lims ID:	280-21902-A-55-D	Client ID:	IS007
Inject. Date:	02-Nov-2011 08:39:21	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-55-D 280-0002689-178		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	111
Lims Batch ID:	94252	Lims Sample ID:	178
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:30	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		546127	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1953309	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1145636	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	485250	85.8			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		3878691	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

QC Flag Legend

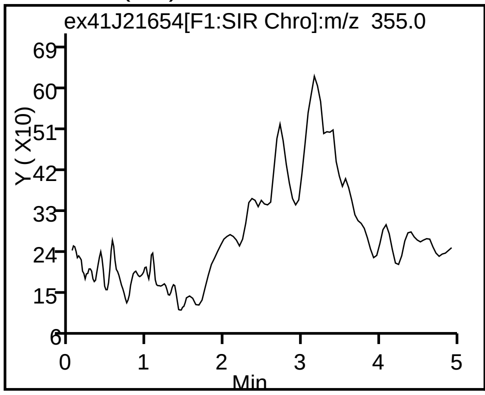
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 10:22:34 Chrom Revision: 1.2 13-Jul-2011 10:43:06

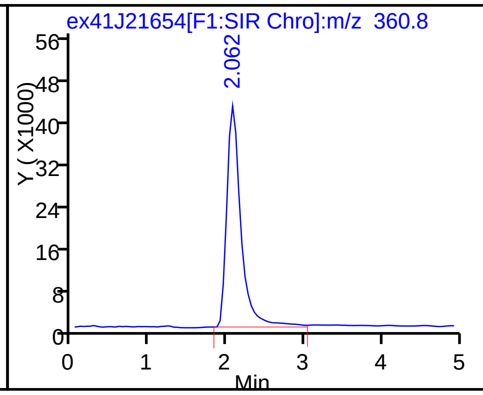
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21654.d

Injection Date:	02-Nov-2011 08:39:21	Limit Group:	LC - 8321A Expl
Client ID:	IS007	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	178
Operator ID:		Injection Vol:	40.00 ul

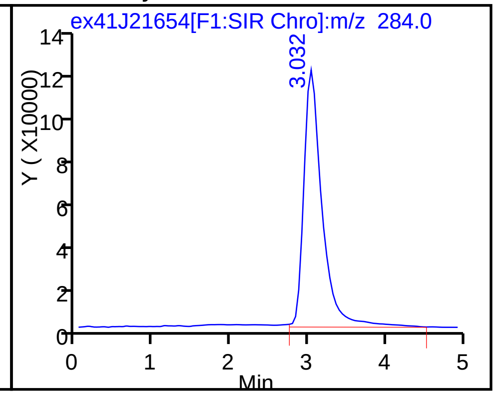
2 HMX (ND)



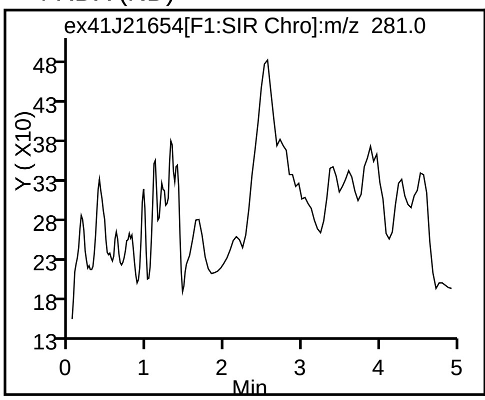
* 1 HMX-13C4



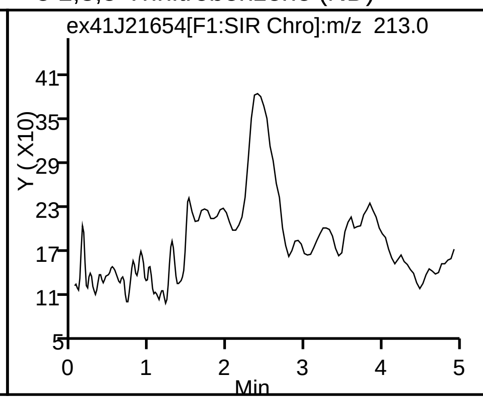
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



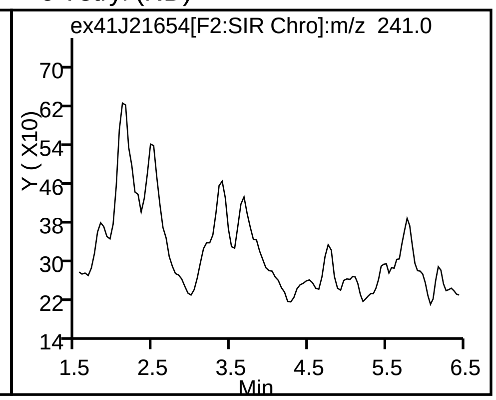
4 RDX (ND)



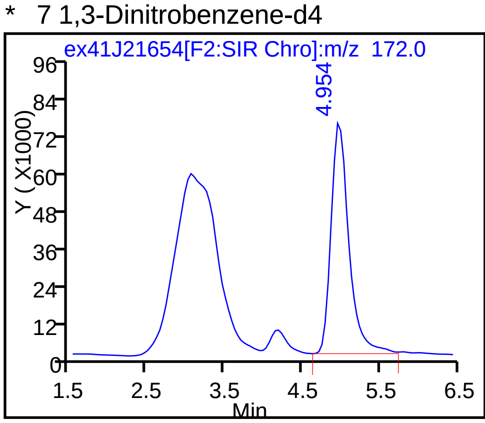
5 1,3,5-Trinitrobenzene (ND)



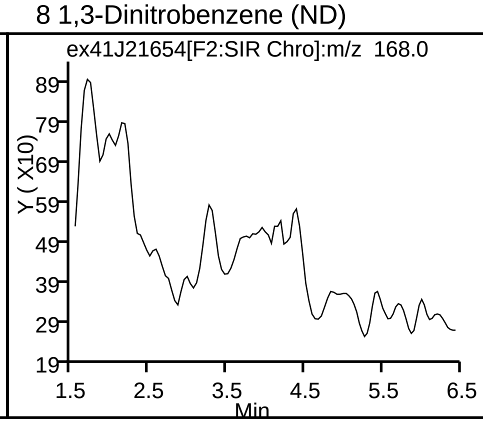
6 Tetryl (ND)



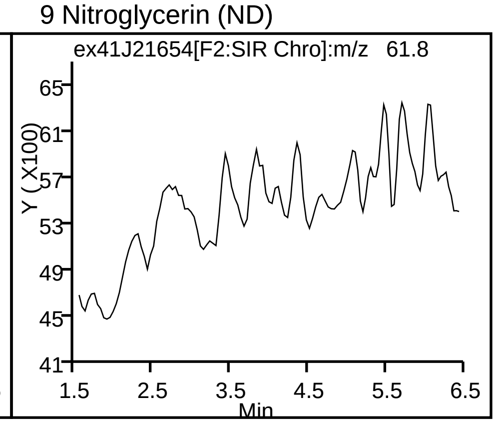
* 7 1,3-Dinitrobenzene-d4



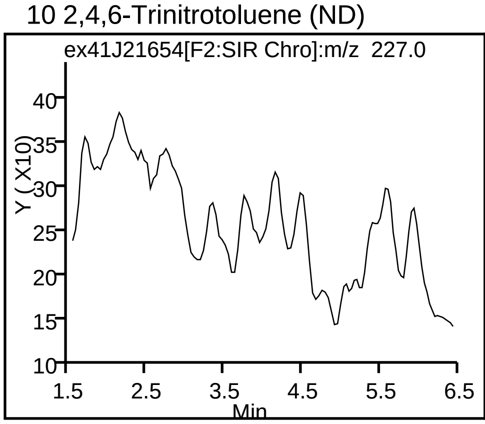
8 1,3-Dinitrobenzene (ND)



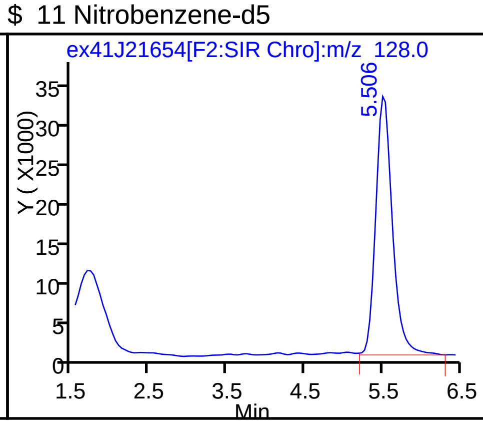
9 Nitroglycerin (ND)



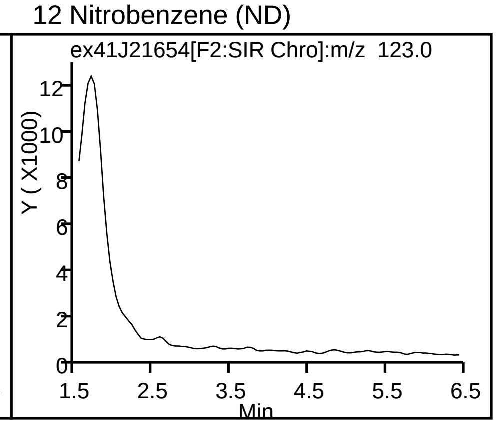
10 2,4,6-Trinitrotoluene (ND)



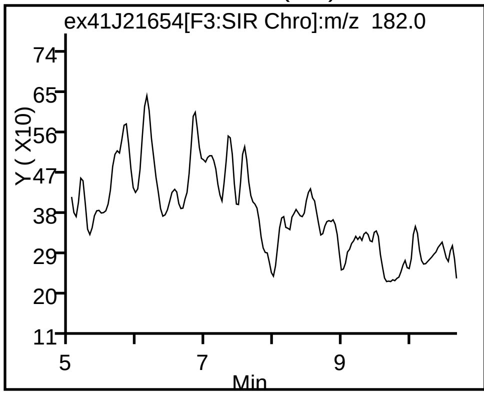
$ 11 Nitrobenzene-d5



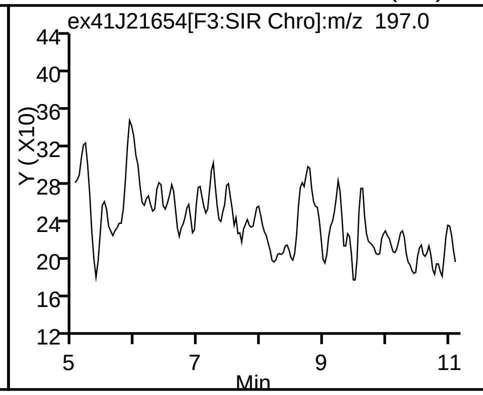
12 Nitrobenzene (ND)



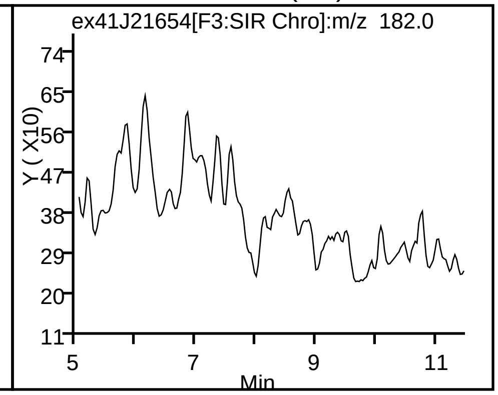
13 3,4-Dinitrotoluene (ND)



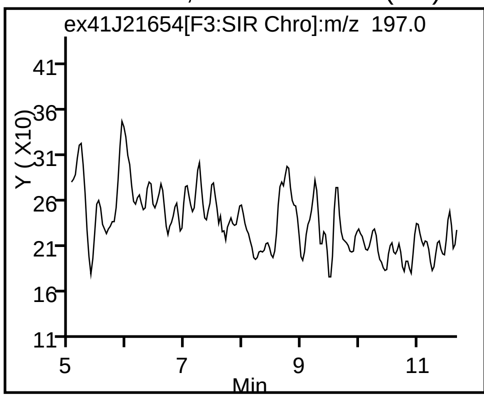
14 4-Amino-2,6-dinitrotoluene (ND)



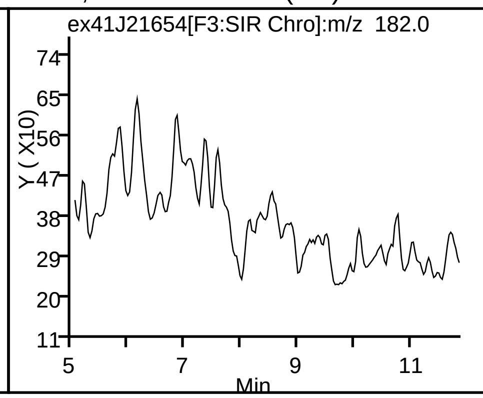
15 2,3-Dinitrotoluene (ND)



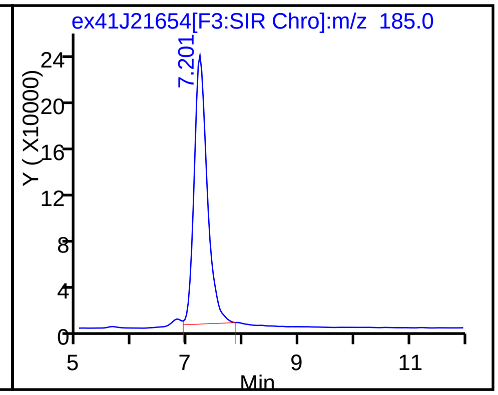
16 2-Amino-4,6-dinitrotoluene (ND)



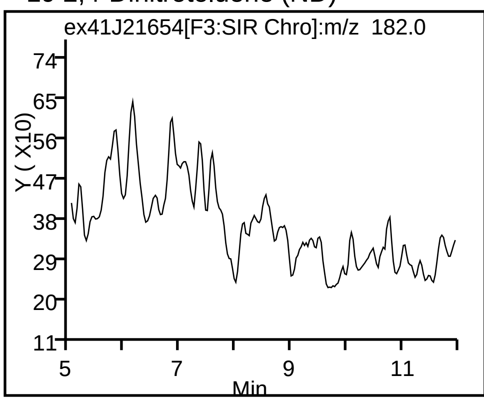
17 2,6-Dinitrotoluene (ND)



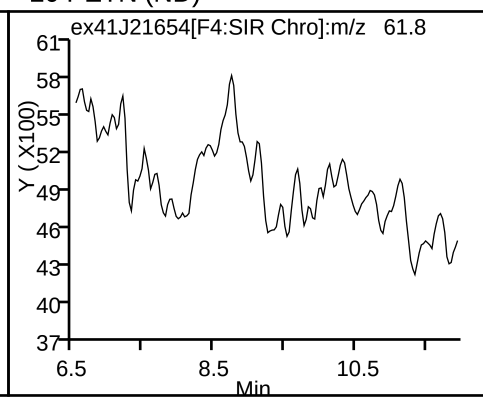
* 18 2,4-dinitrotoluene-d3



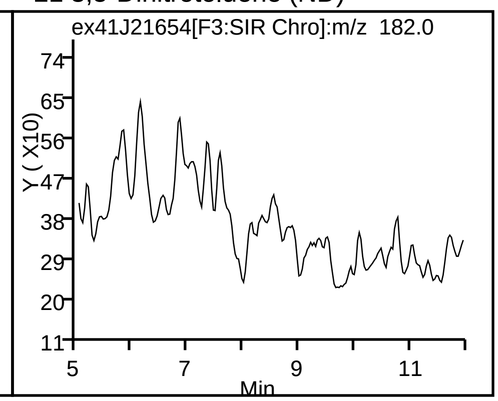
19 2,4-Dinitrotoluene (ND)



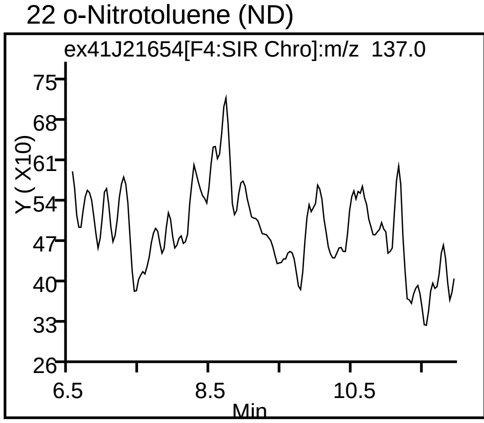
20 PETN (ND)



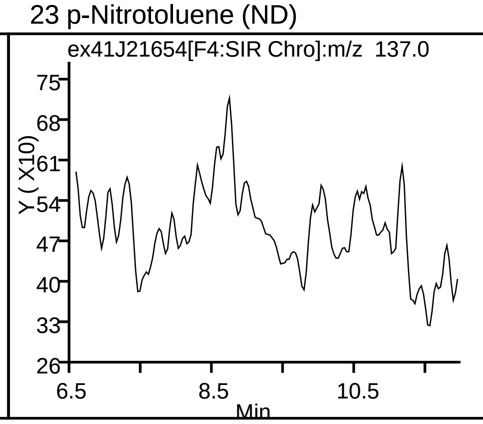
21 3,5-Dinitrotoluene (ND)



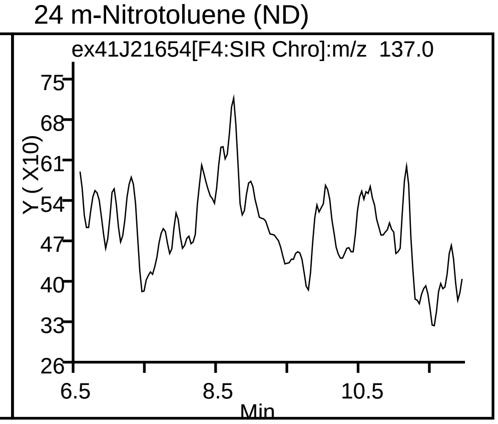
22 o-Nitrotoluene (ND)



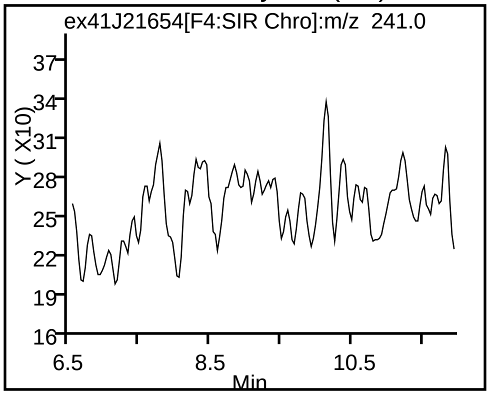
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP02 IS004 Lab Sample ID: 280-21902-56

Matrix: Solid Lab File ID: ex41J21655.d

Analysis Method: 8321B Date Collected: 10/17/2011 13:37

Extraction Method: 8330B Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.93(g) Date Analyzed: 11/02/2011 08:52

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.091	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.011	U	0.091	0.011	0.0065
118-96-7	2,4,6-Trinitrotoluene	0.011	U	0.091	0.011	0.0046
121-14-2	2,4-Dinitrotoluene	0.011	U	0.091	0.011	0.0075
606-20-2	2,6-Dinitrotoluene	0.023	U Q	0.091	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U Q	0.091	0.023	0.011
88-72-2	2-Nitrotoluene	0.011	U	0.091	0.011	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.091	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.011	U Q	0.091	0.011	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.091	0.023	0.010
2691-41-0	HMX	0.011	U	0.091	0.011	0.0053
98-95-3	Nitrobenzene	0.011	U	0.091	0.011	0.0099
55-63-0	Nitroglycerin	0.011	U	0.091	0.011	0.0096
78-11-5	PETN	0.011	U	0.091	0.011	0.0047
121-82-4	RDX	0.011	U	0.091	0.011	0.0040
479-45-8	Tetryl	0.011	U	0.091	0.011	0.0069

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21655.d		
Lims ID:	280-21902-A-56-D	Client ID:	IS004
Inject. Date:	02-Nov-2011 08:52:55	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-56-D 280-0002689-179		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	112
Lims Batch ID:	94252	Lims Sample ID:	179
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:30	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 10:18:54

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		516579	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1864507	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1317631	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	514906	79.1			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		3856809	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

QC Flag Legend

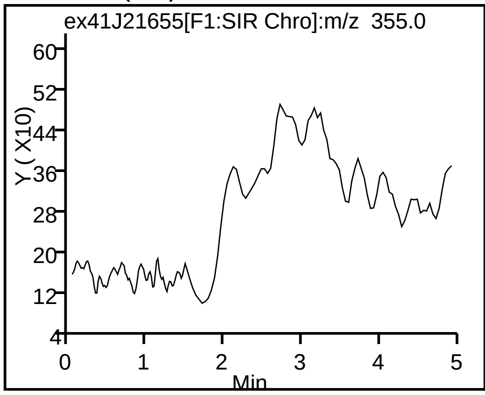
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 10:22:36 Chrom Revision: 1.2 13-Jul-2011 10:43:06

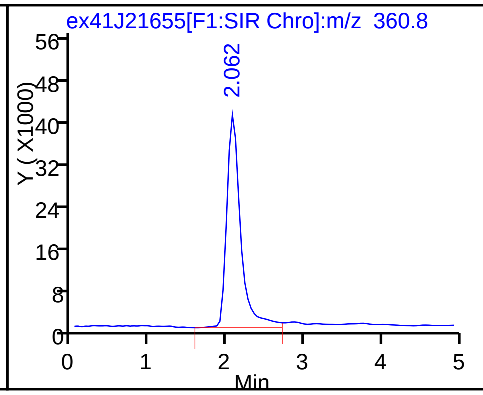
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21655.d

Injection Date:	02-Nov-2011 08:52:55	Limit Group:	LC - 8321A Expl
Client ID:	IS004	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	179
Operator ID:		Injection Vol:	40.00 ul

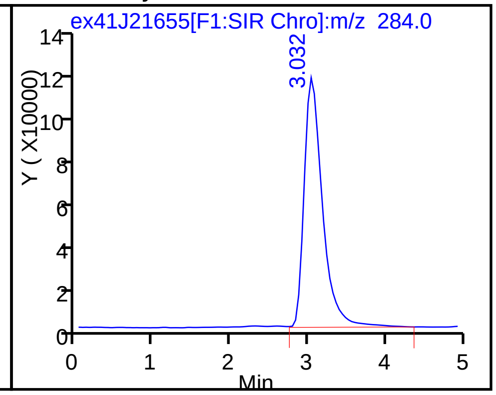
2 HMX (ND)



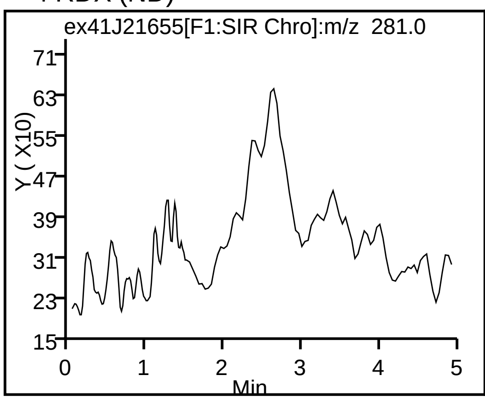
* 1 HMX-13C4



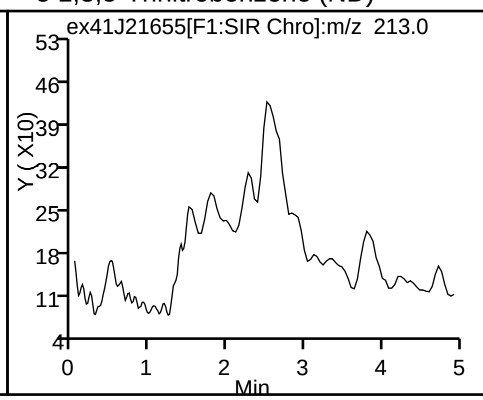
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



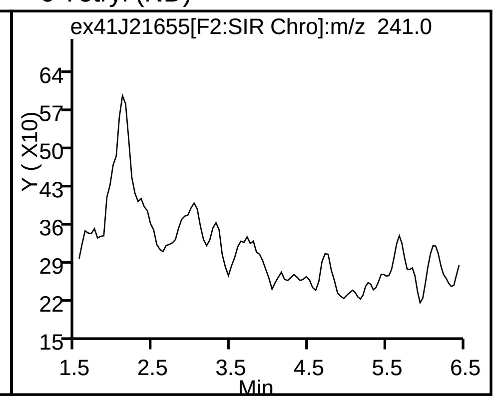
4 RDX (ND)



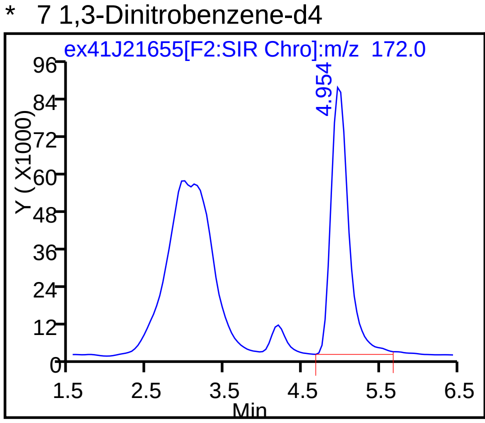
5 1,3,5-Trinitrobenzene (ND)



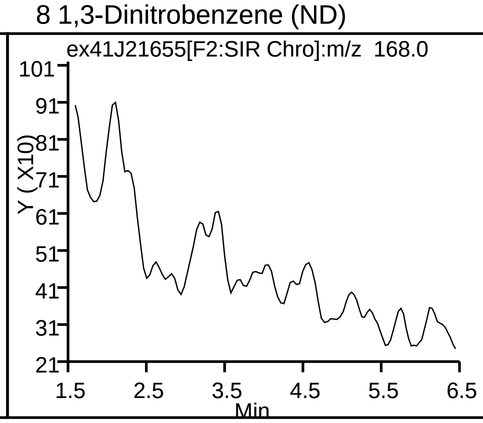
6 Tetryl (ND)



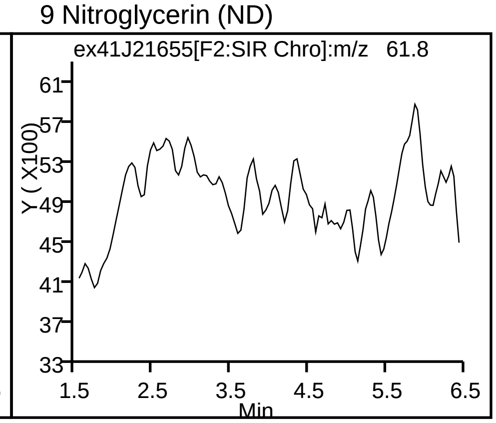
* 7 1,3-Dinitrobenzene-d4



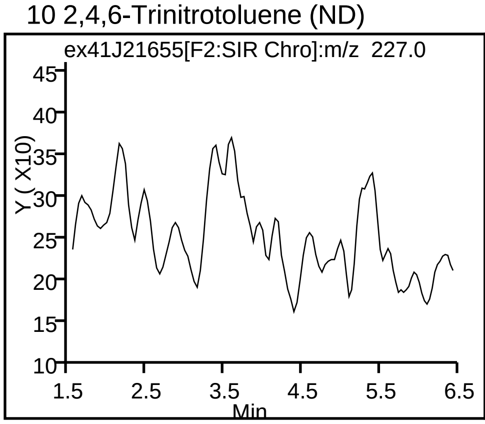
8 1,3-Dinitrobenzene (ND)



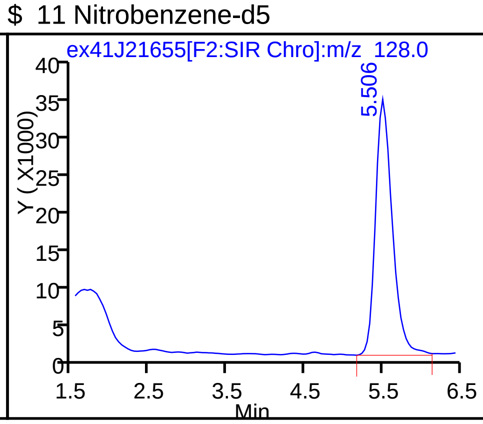
9 Nitroglycerin (ND)



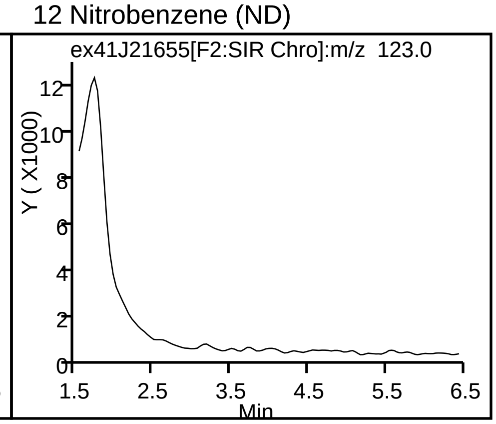
10 2,4,6-Trinitrotoluene (ND)



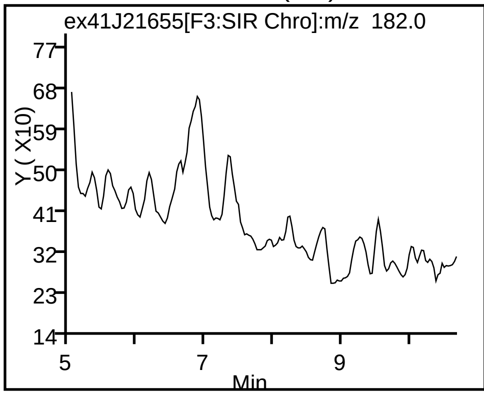
$ 11 Nitrobenzene-d5



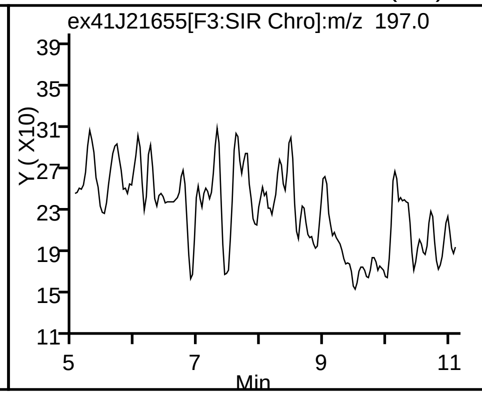
12 Nitrobenzene (ND)



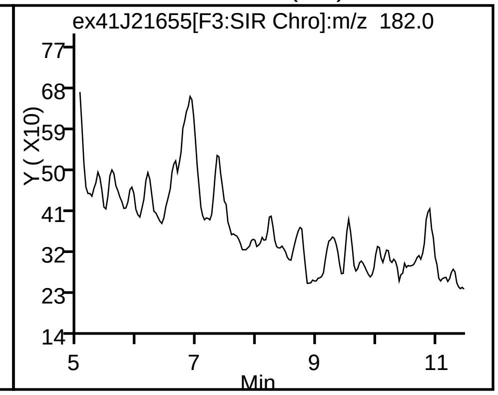
13 3,4-Dinitrotoluene (ND)



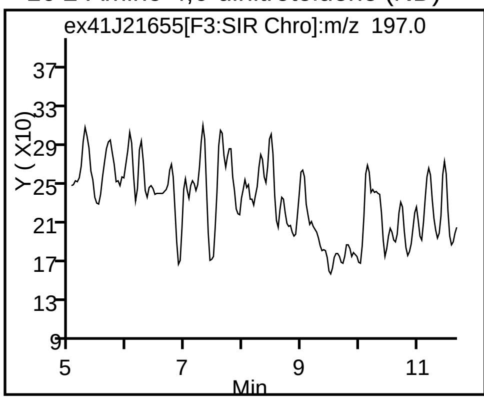
14 4-Amino-2,6-dinitrotoluene (ND)



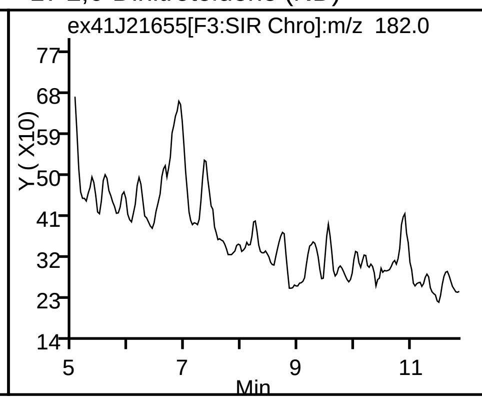
15 2,3-Dinitrotoluene (ND)



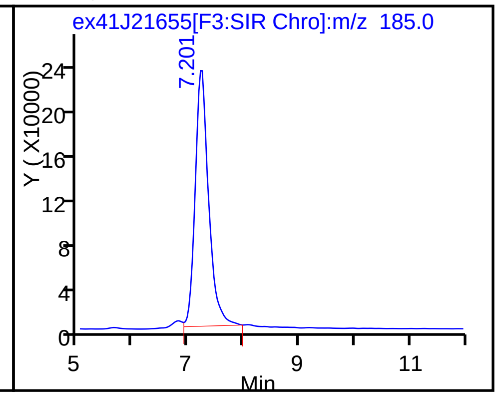
16 2-Amino-4,6-dinitrotoluene (ND)



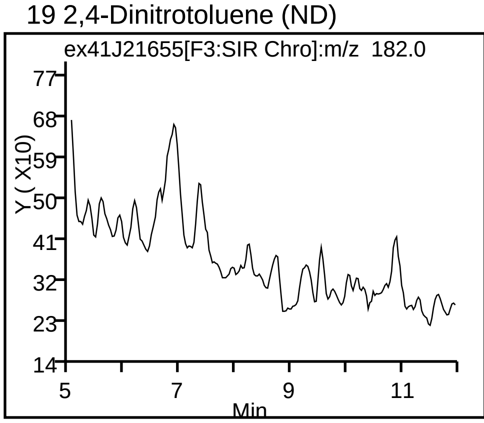
17 2,6-Dinitrotoluene (ND)



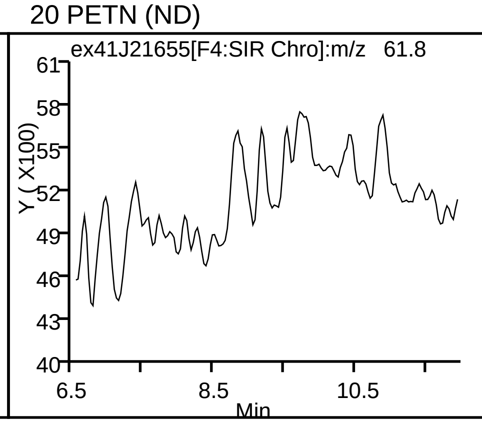
* 18 2,4-dinitrotoluene-d3



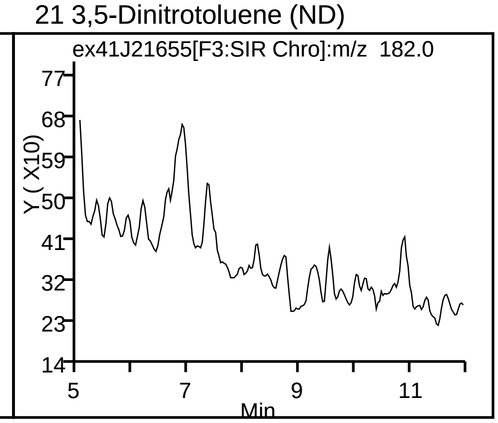
19 2,4-Dinitrotoluene (ND)



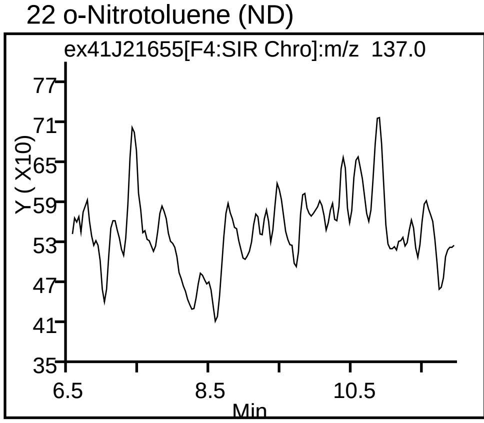
20 PETN (ND)



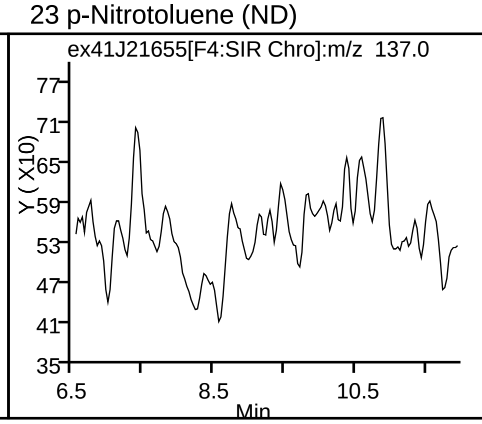
21 3,5-Dinitrotoluene (ND)



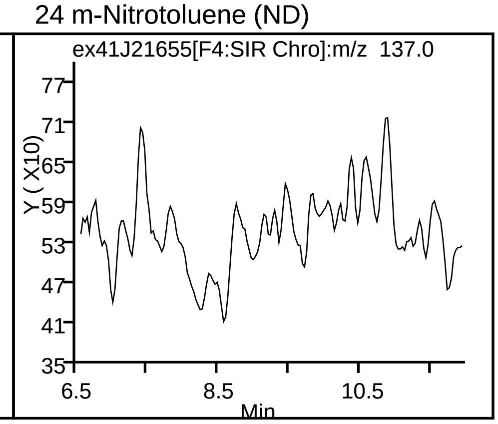
22 o-Nitrotoluene (ND)



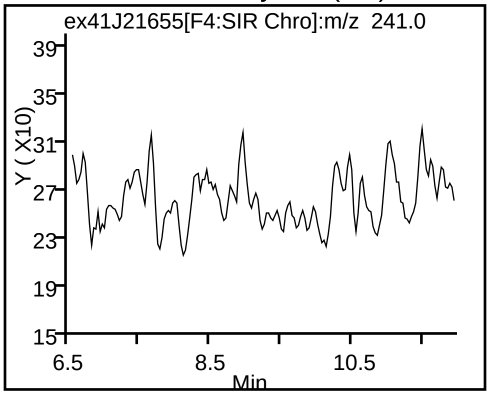
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP02 IS005   Lab Sample ID: 280-21902-57

Matrix: Solid   Lab File ID: ex41J21656.d

Analysis Method: 8321B   Date Collected: 10/17/2011 14:36

Extraction Method: 8330B   Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.78(g)   Date Analyzed: 11/02/2011 09:06

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U Q	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U Q	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.093	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0097
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21656.d		
Lims ID:	280-21902-A-57-D	Client ID:	IS005
Inject. Date:	02-Nov-2011 09:06:29	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-57-D 280-0002689-180		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	113
Lims Batch ID:	94252	Lims Sample ID:	180
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:36:12	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 10:36:01

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		449806	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1594261	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1230630	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.034							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.551	0.034	1.109	458380	75.4			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.492							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		3894120	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.323	0.000	1.008	17451	1.03			
20 PETN										1
4	61.8		7.768							
21 3,5-Dinitrotoluene										
3	182.0		7.899							
22 o-Nitrotoluene										1
4	137.0		8.284							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

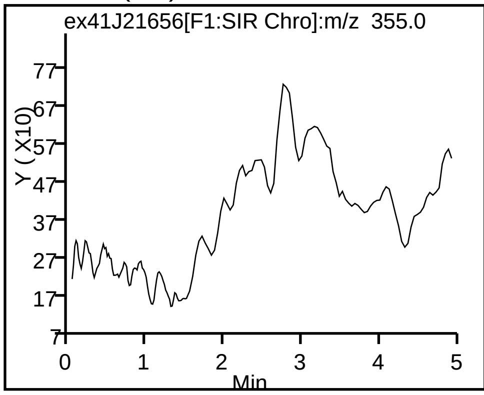
QC Flag Legend

Processing Flags
1 - Missing Peaks

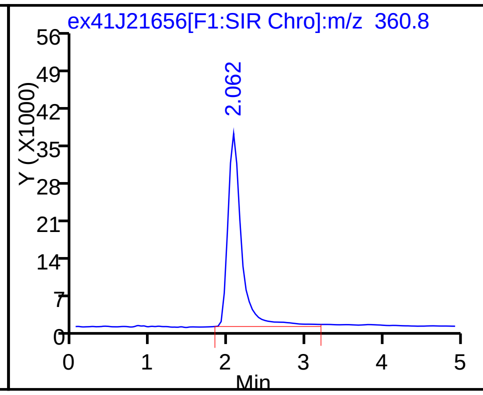
Report Date: 02-Nov-2011 10:36:13 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21656.d		
Injection Date:	02-Nov-2011 09:06:29	Limit Group:	LC - 8321A Expl
Client ID:	IS005	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	180
Operator ID:		Injection Vol:	40.00 ul

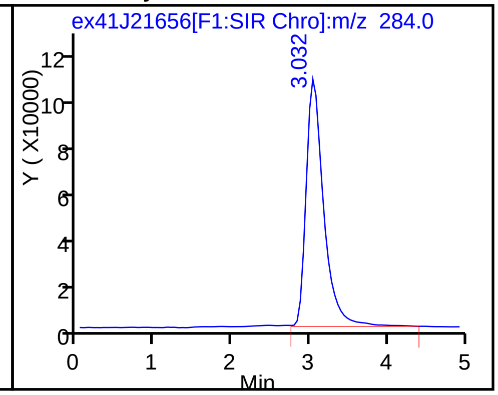
2 HMX (ND)



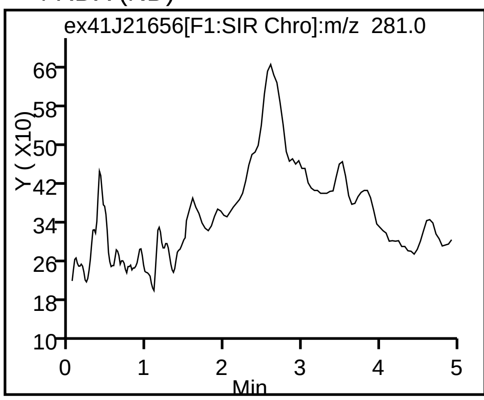
* 1 HMX-13C4



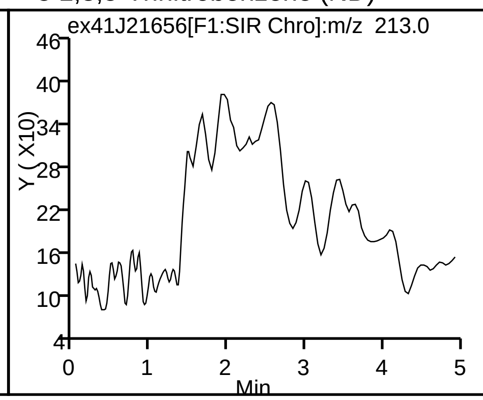
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



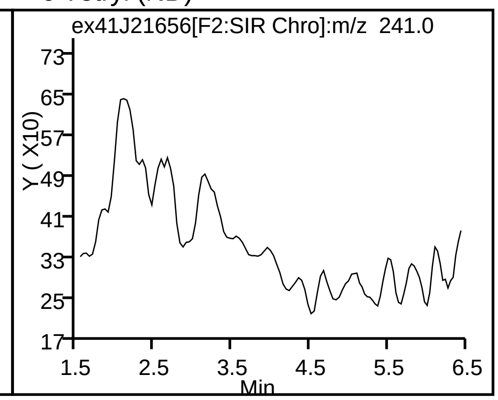
4 RDX (ND)



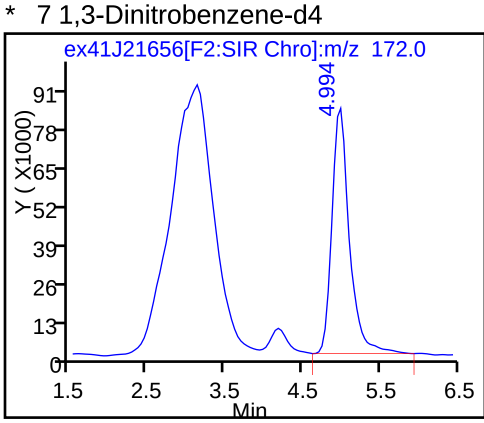
5 1,3,5-Trinitrobenzene (ND)



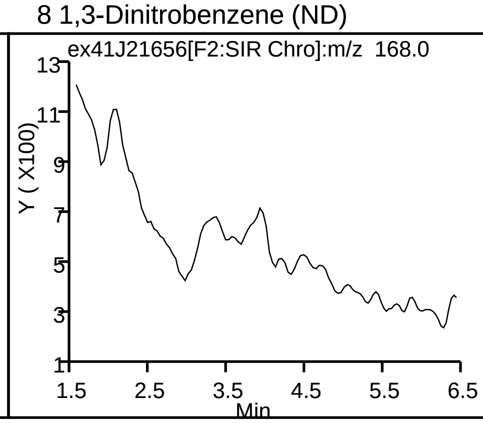
6 Tetryl (ND)



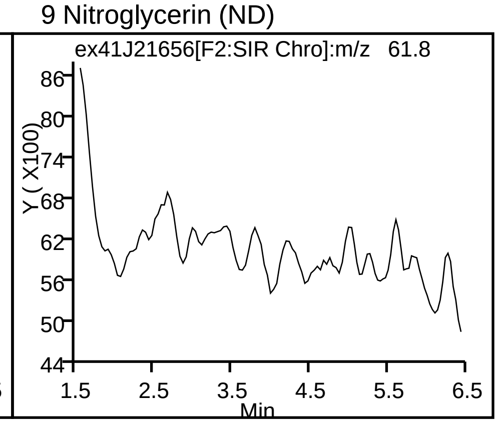
* 7 1,3-Dinitrobenzene-d4



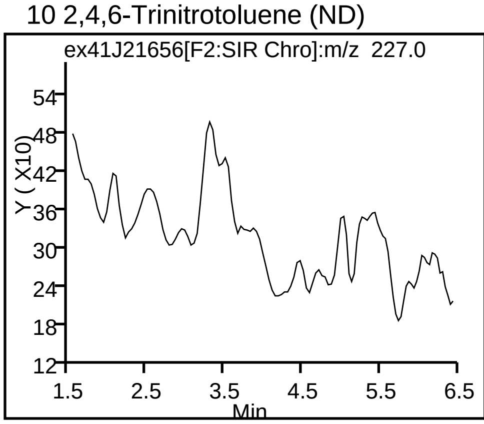
8 1,3-Dinitrobenzene (ND)



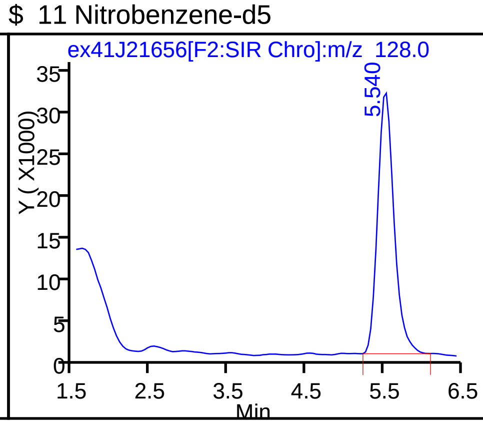
9 Nitroglycerin (ND)



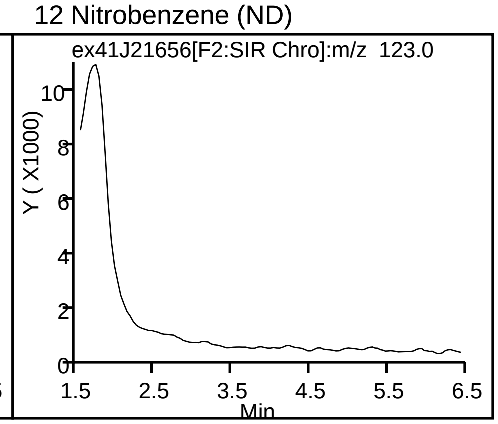
10 2,4,6-Trinitrotoluene (ND)



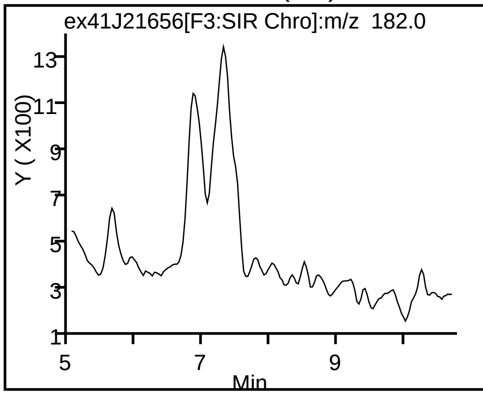
$ 11 Nitrobenzene-d5



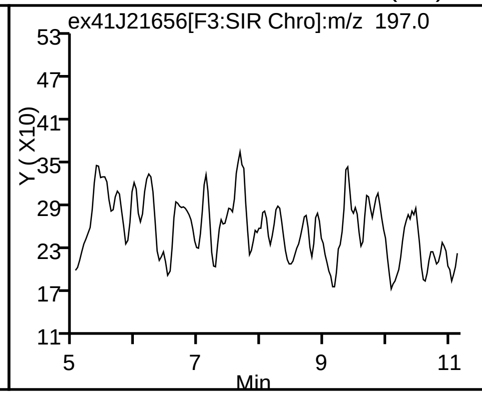
12 Nitrobenzene (ND)



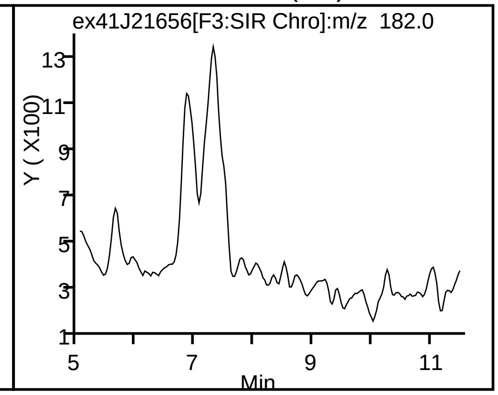
13 3,4-Dinitrotoluene (ND)



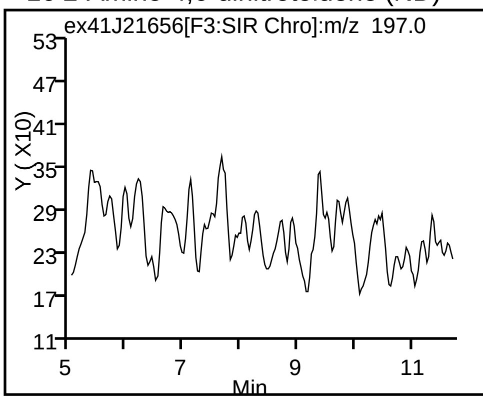
14 4-Amino-2,6-dinitrotoluene (ND)



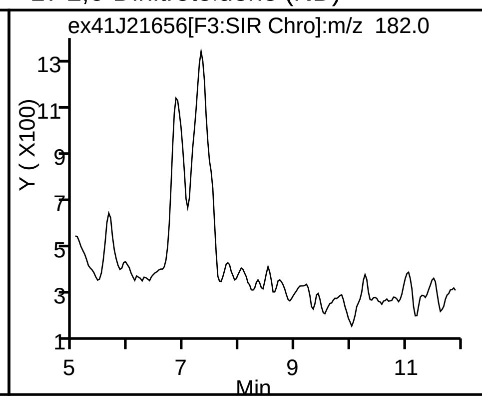
15 2,3-Dinitrotoluene (ND)



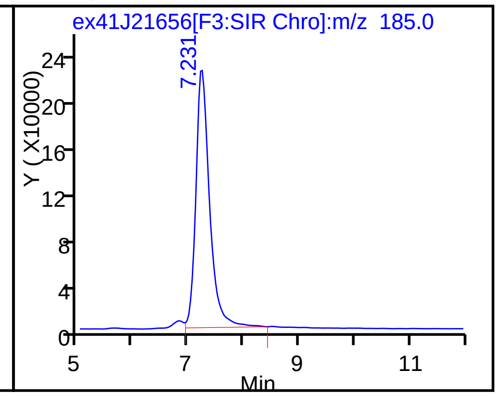
16 2-Amino-4,6-dinitrotoluene (ND)



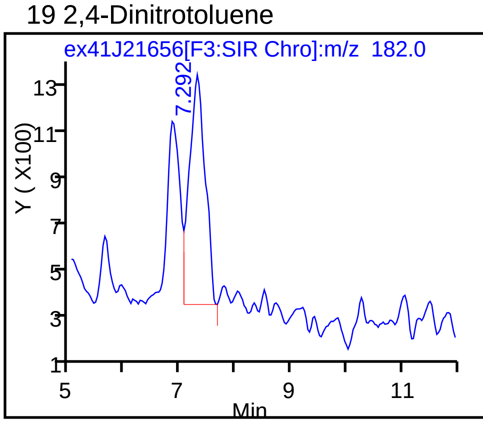
17 2,6-Dinitrotoluene (ND)



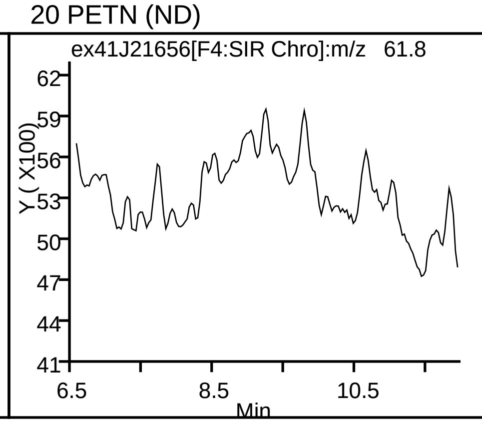
* 18 2,4-dinitrotoluene-d3



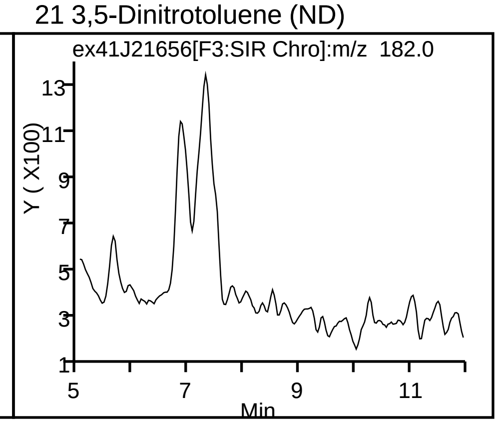
19 2,4-Dinitrotoluene



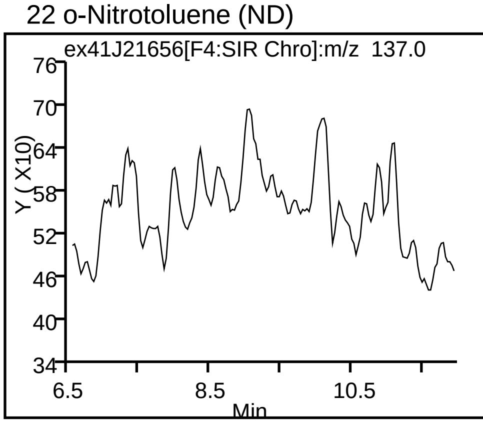
20 PETN (ND)



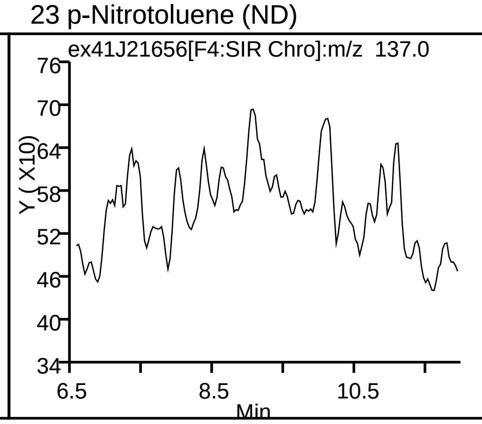
21 3,5-Dinitrotoluene (ND)



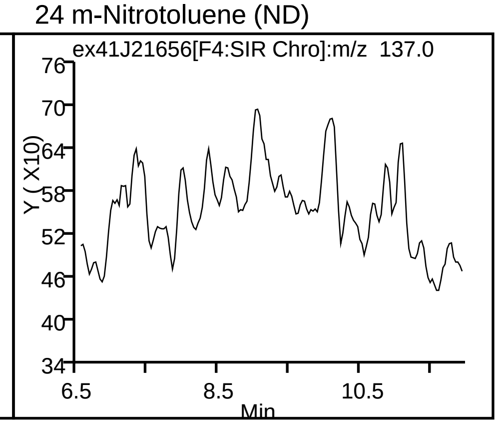
22 o-Nitrotoluene (ND)



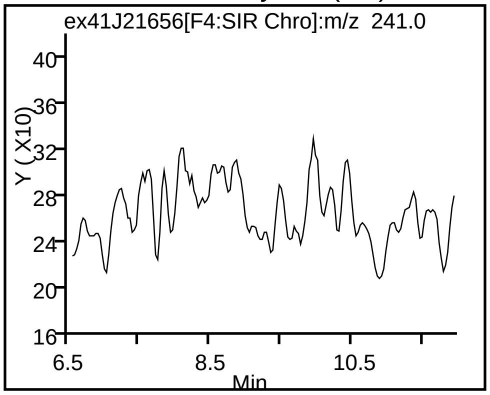
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP02 IS006 | Lab Sample ID: 280-21902-58

Matrix: Solid | Lab File ID: ex41J21657.d

Analysis Method: 8321B | Date Collected: 10/17/2011 15:17

Extraction Method: 8330B | Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.31(g) | Date Analyzed: 11/02/2011 09:20

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U J	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U Q	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U Q	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U Q	0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21657.d		
Lims ID:	280-21902-A-58-D	Client ID:	IS006
Inject. Date:	02-Nov-2011 09:20:03	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-58-D 280-0002689-181		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	114
Lims Batch ID:	94252	Lims Sample ID:	181
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:30	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 10:19:25

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		421832	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1431097	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1274231	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	474174	75.3			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Report Date: 02-Nov-2011 10:22:37 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21657.d

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15	2,3-Dinitrotoluene									1
3	182.0		6.492							
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.201	0.030		3801304	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.262							
20	PETN									
4	61.8		7.768							
21	3,5-Dinitrotoluene									
3	182.0		7.869							
22	o-Nitrotoluene									
4	137.0		8.254							
23	p-Nitrotoluene									
4	137.0		8.800							
24	m-Nitrotoluene									
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

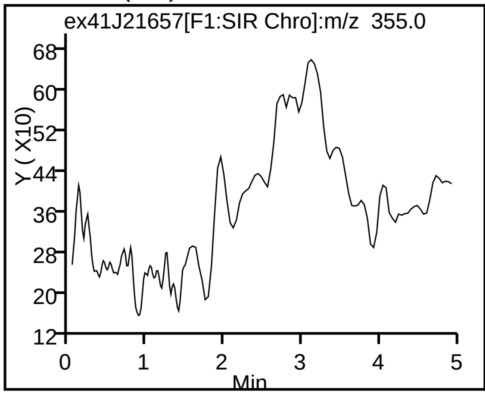
QC Flag Legend

Processing Flags
1 - Missing Peaks

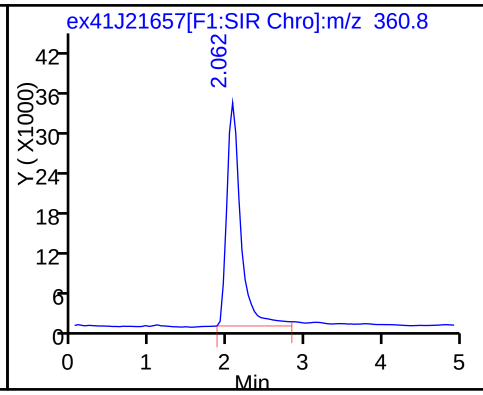
Report Date: 02-Nov-2011 10:22:37 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21657.d

Injection Date:	02-Nov-2011 09:20:03	Limit Group:	LC - 8321A Expl
Client ID:	IS006	Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	181
Operator ID:		Injection Vol:	40.00 ul

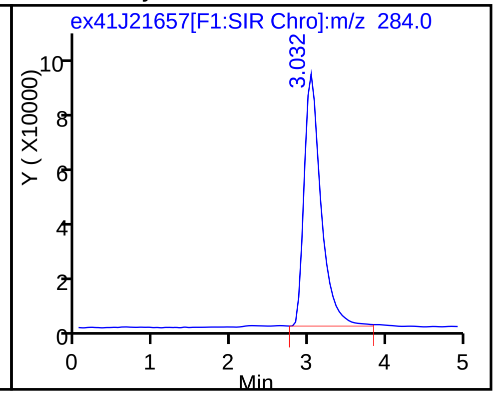
2 HMX (ND)



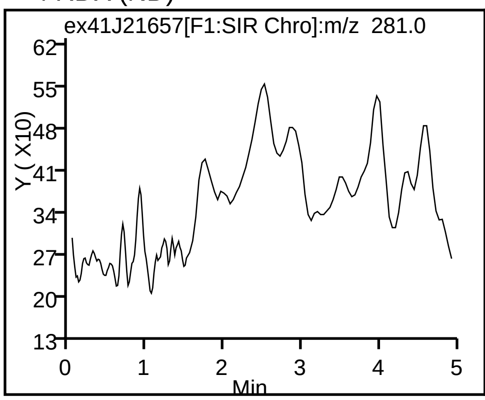
* 1 HMX-13C4



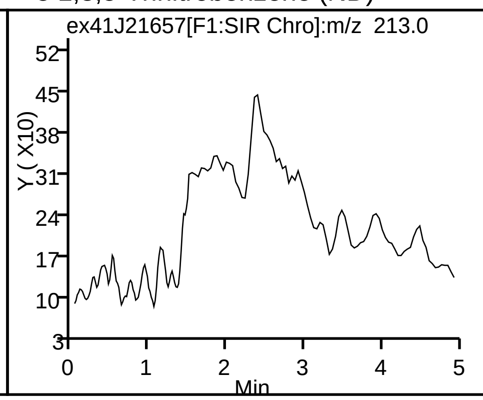
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



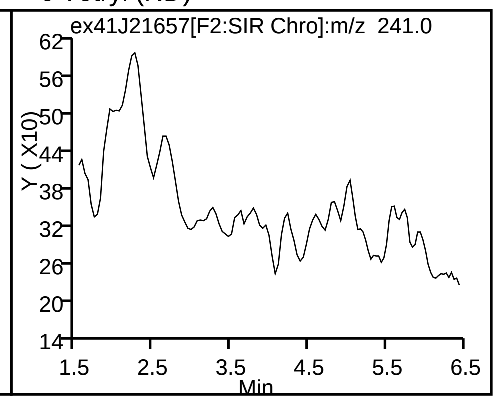
4 RDX (ND)



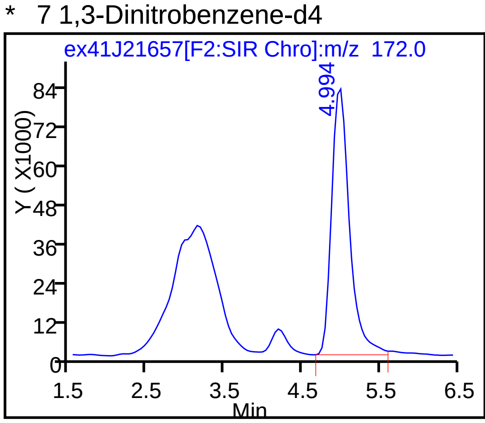
5 1,3,5-Trinitrobenzene (ND)



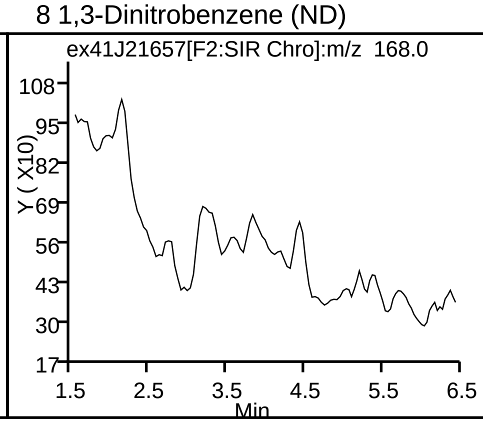
6 Tetryl (ND)



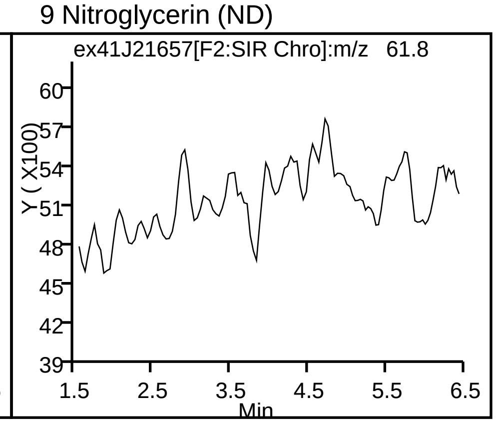
* 7 1,3-Dinitrobenzene-d4



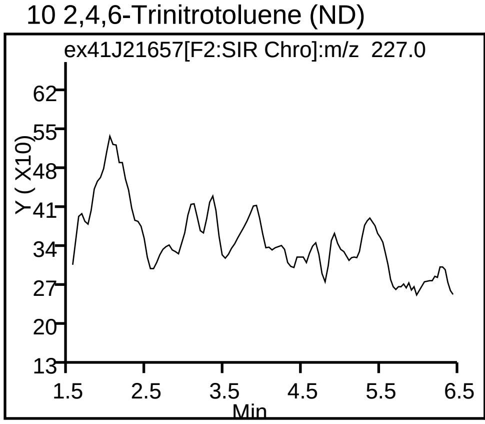
8 1,3-Dinitrobenzene (ND)



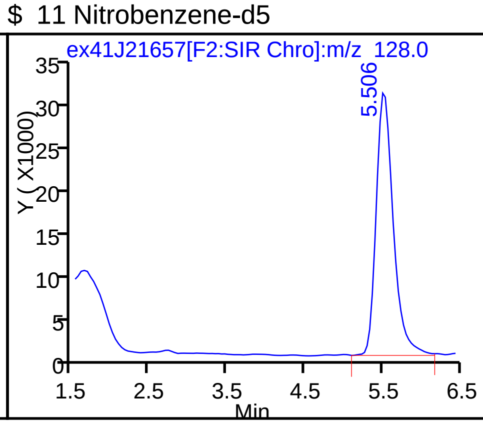
9 Nitroglycerin (ND)



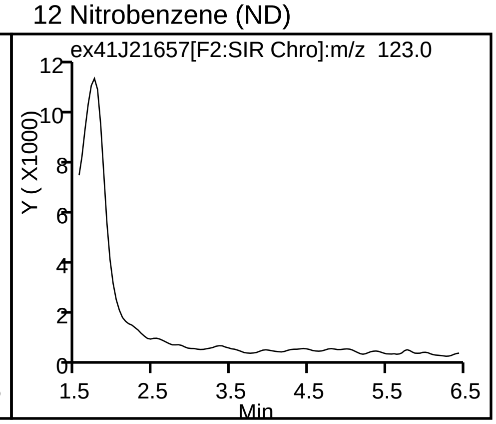
10 2,4,6-Trinitrotoluene (ND)



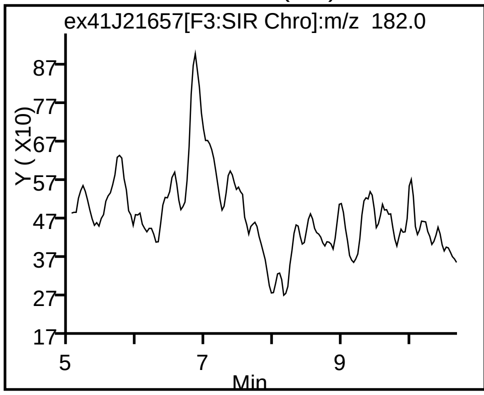
$ 11 Nitrobenzene-d5



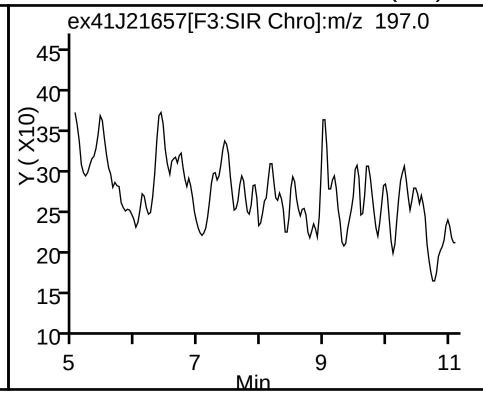
12 Nitrobenzene (ND)



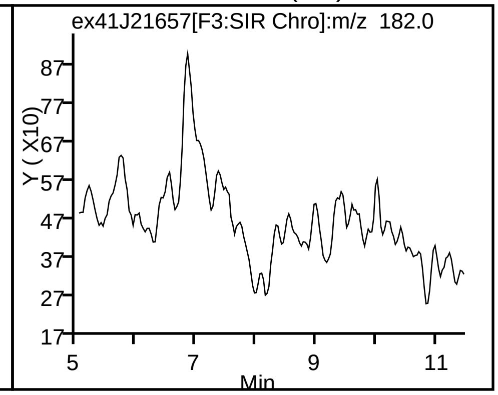
13 3,4-Dinitrotoluene (ND)



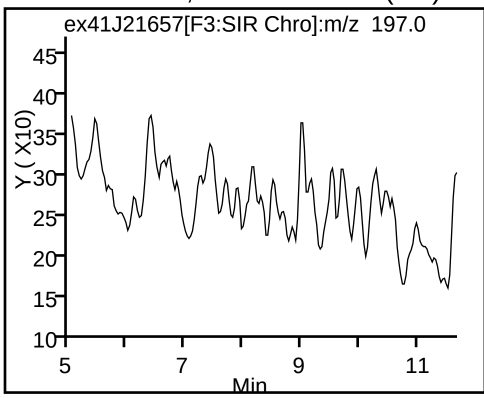
14 4-Amino-2,6-dinitrotoluene (ND)



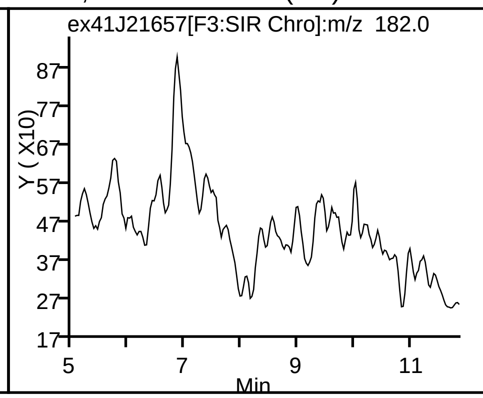
15 2,3-Dinitrotoluene (ND)



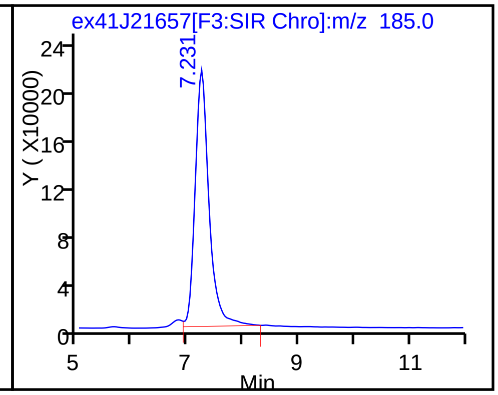
16 2-Amino-4,6-dinitrotoluene (ND)



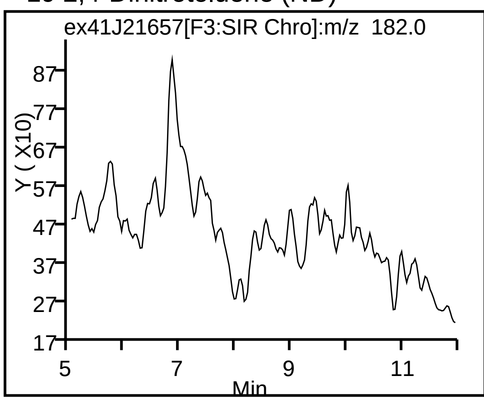
17 2,6-Dinitrotoluene (ND)



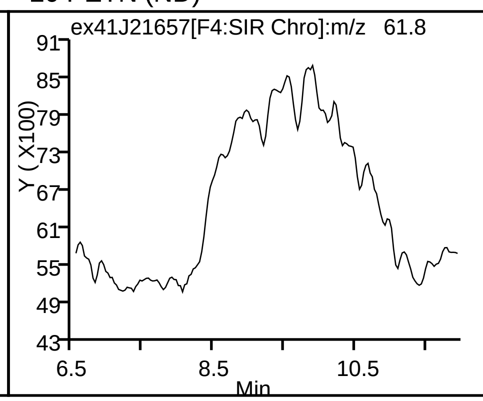
* 18 2,4-dinitrotoluene-d3



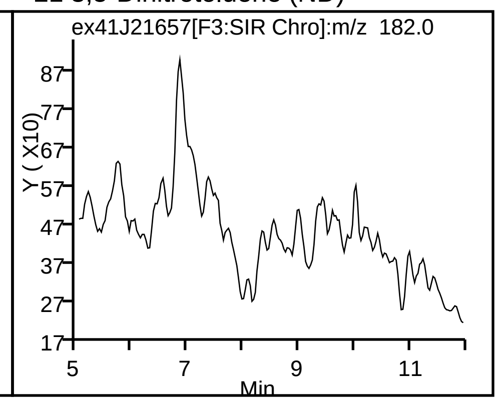
19 2,4-Dinitrotoluene (ND)



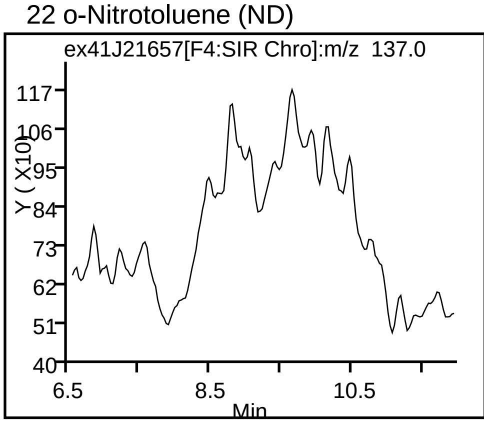
20 PETN (ND)



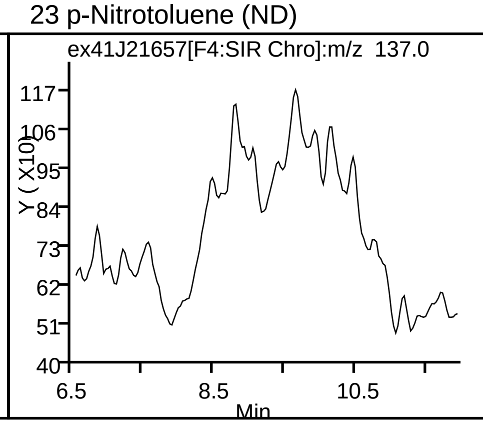
21 3,5-Dinitrotoluene (ND)



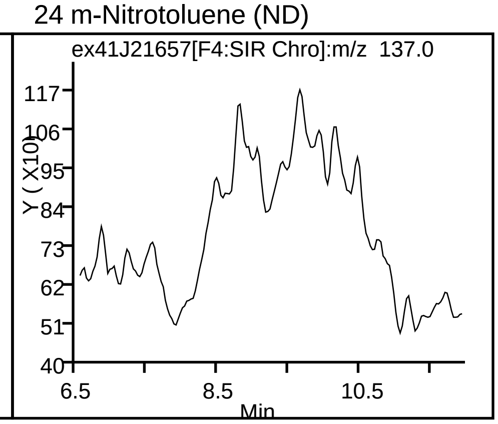
22 o-Nitrotoluene (ND)



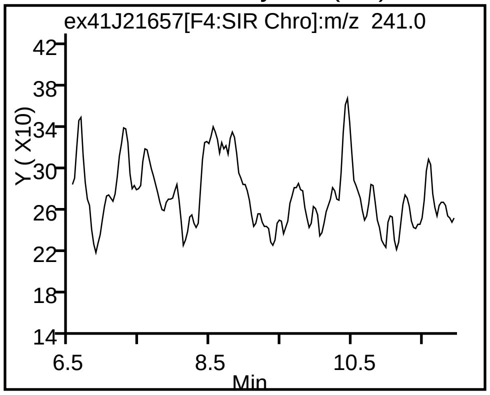
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP13 SB019 | Lab Sample ID: 280-21902-59

Matrix: Solid | Lab File ID: ex41J21783.d

Analysis Method: 8321B | Date Collected: 10/17/2011 12:46

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.75(g) | Date Analyzed: 11/03/2011 19:20

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.093	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0098
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21783.d		
Lims ID:	280-21902-B-59-B	Client ID:	SB019
Inject. Date:	03-Nov-2011 19:20:22	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-59-B 280-0002711-034		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	114
Lims Batch ID:	94611	Lims Sample ID:	34
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:50	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:36:44

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		644320	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2384282	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1582045	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	585608	74.9			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

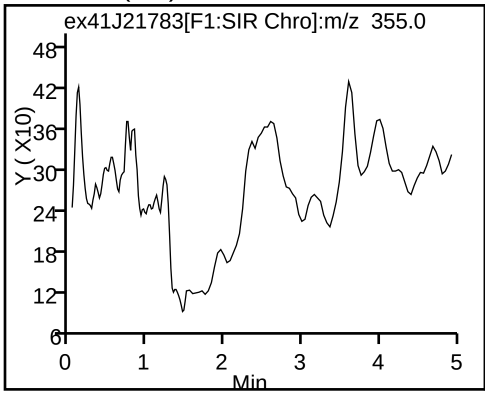
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4585892	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										
4	137.0		8.193							
23 p-Nitrotoluene										
4	137.0		8.739							
24 m-Nitrotoluene										
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

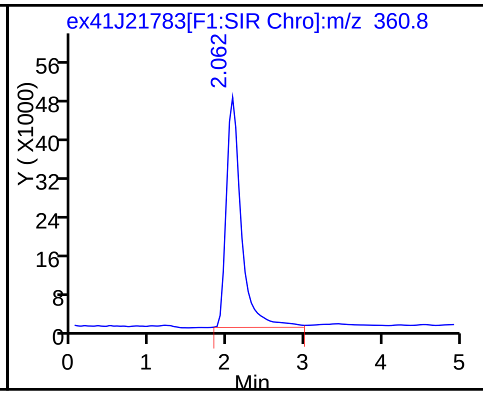
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:46:55		Chrom Revision: 1.2 13-Jul-2011 10:43:06	
Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21783.d		
Injection Date:	03-Nov-2011 19:20:22	Limit Group:	LC - 8321A Expl
Client ID:	SB019	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	34
Operator ID:		Injection Vol:	40.00 ul

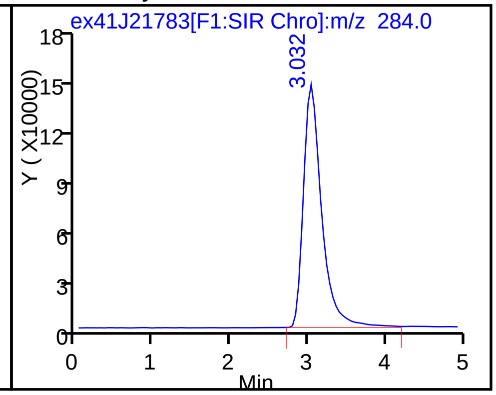
2 HMX (ND)



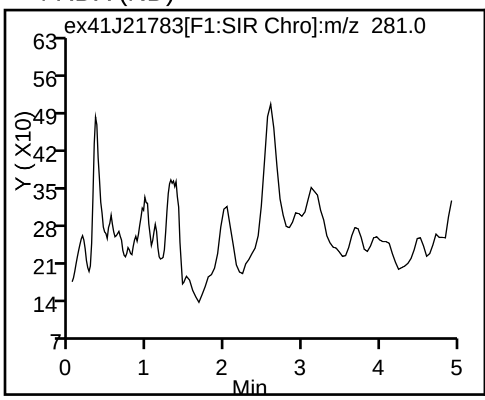
* 1 HMX-13C4



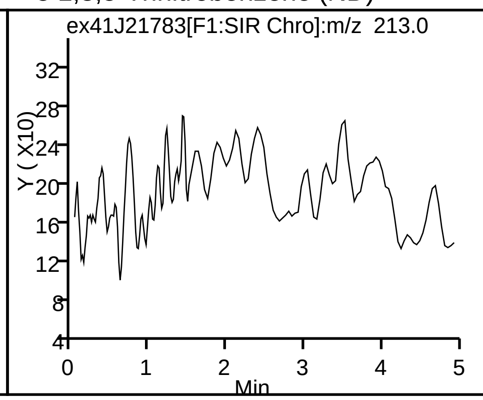
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



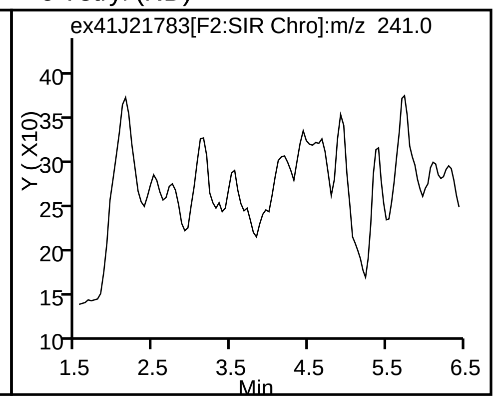
4 RDX (ND)



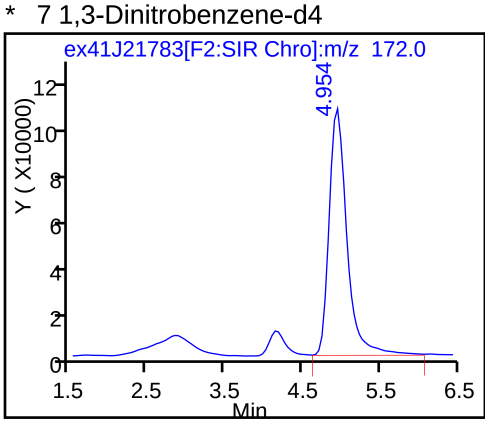
5 1,3,5-Trinitrobenzene (ND)



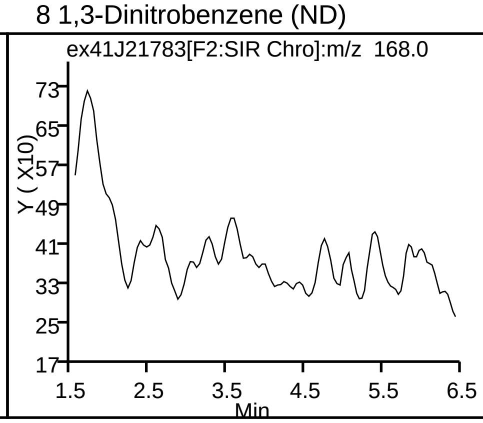
6 Tetryl (ND)



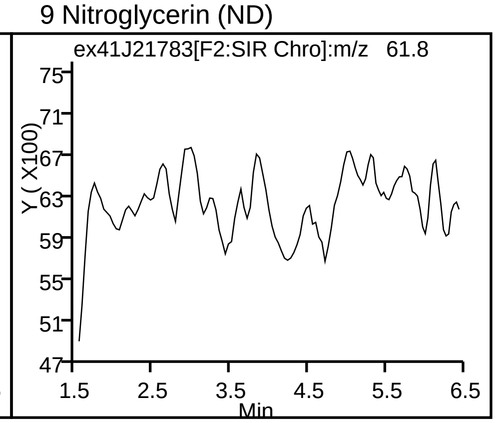
* 7 1,3-Dinitrobenzene-d4



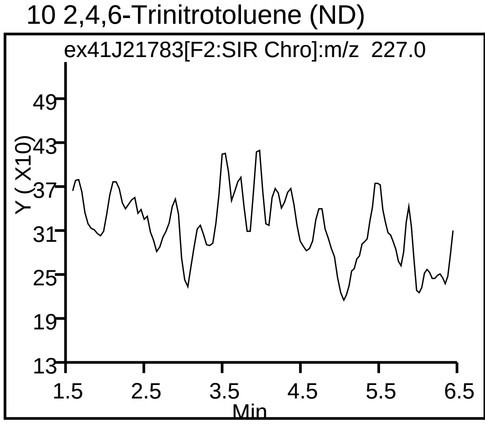
8 1,3-Dinitrobenzene (ND)



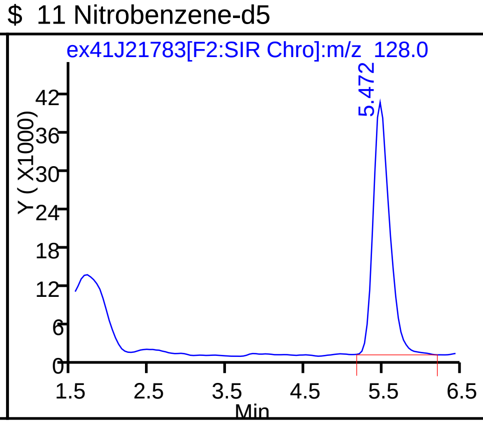
9 Nitroglycerin (ND)



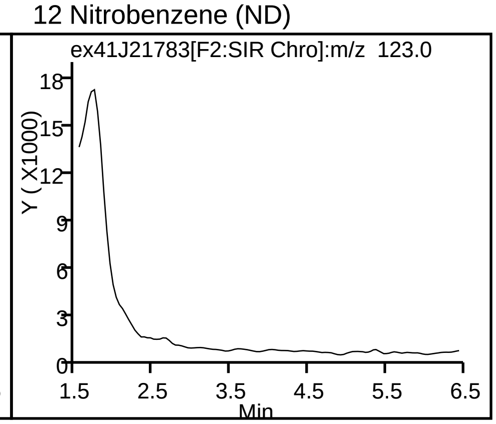
10 2,4,6-Trinitrotoluene (ND)



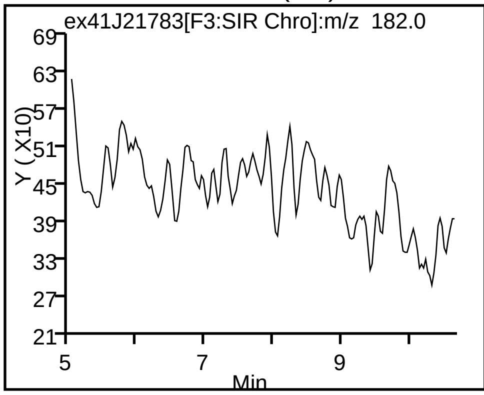
$ 11 Nitrobenzene-d5



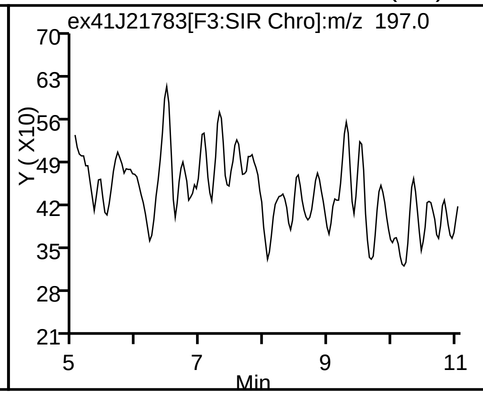
12 Nitrobenzene (ND)



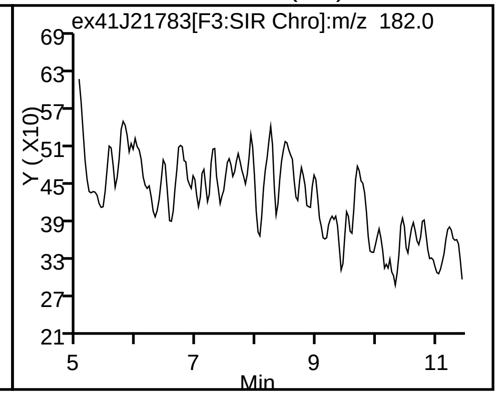
13 3,4-Dinitrotoluene (ND)



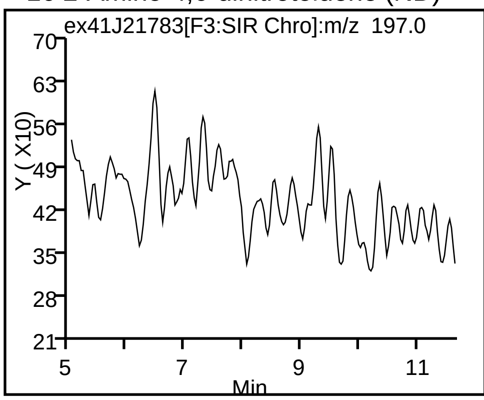
14 4-Amino-2,6-dinitrotoluene (ND)



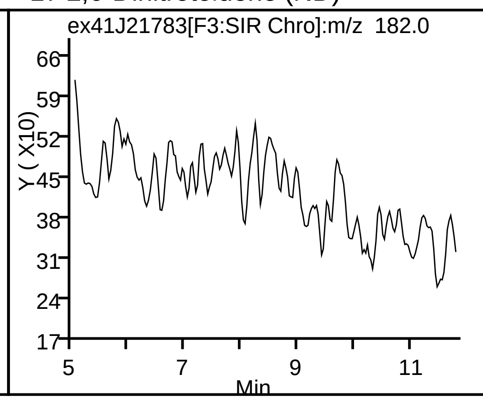
15 2,3-Dinitrotoluene (ND)



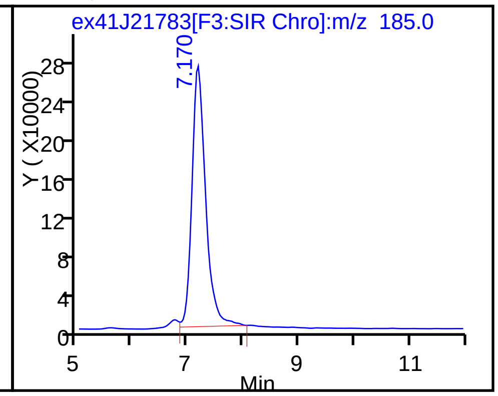
16 2-Amino-4,6-dinitrotoluene (ND)



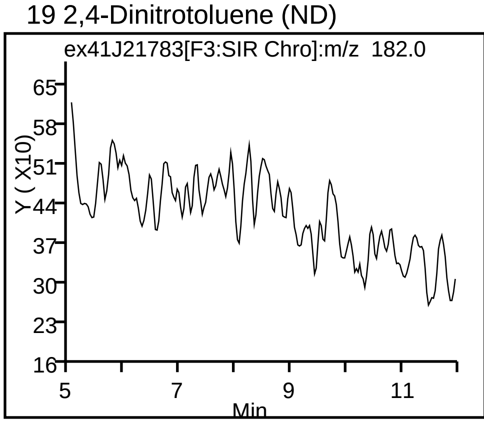
17 2,6-Dinitrotoluene (ND)



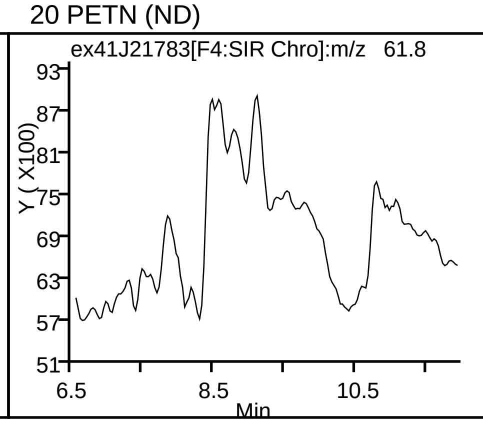
* 18 2,4-dinitrotoluene-d3



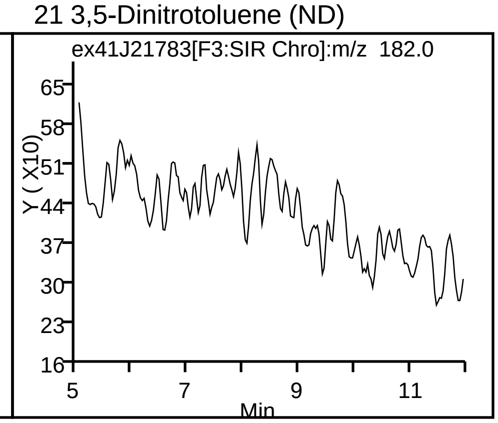
19 2,4-Dinitrotoluene (ND)



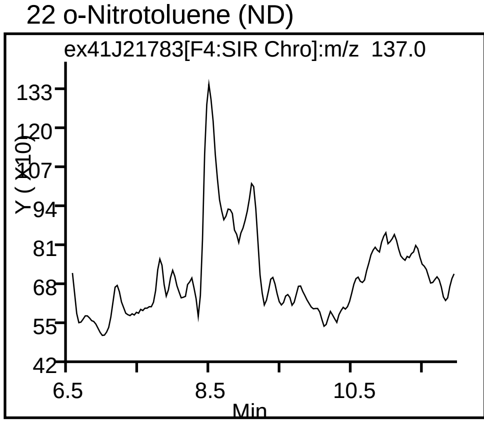
20 PETN (ND)



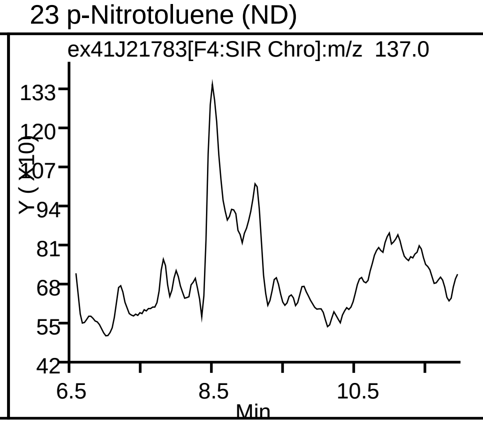
21 3,5-Dinitrotoluene (ND)



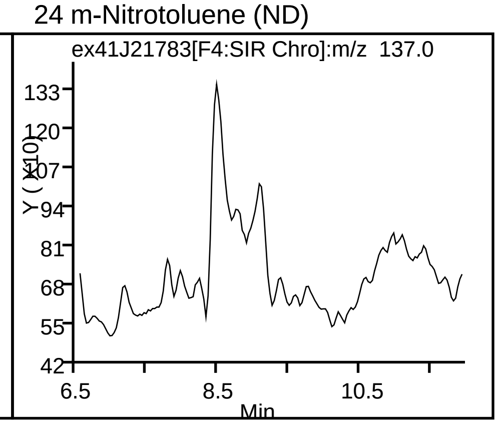
22 o-Nitrotoluene (ND)



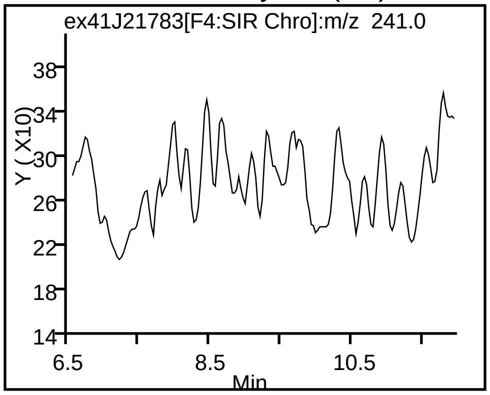
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP13 SB021 | Lab Sample ID: 280-21902-60

Matrix: Solid | Lab File ID: ex41J21784.d

Analysis Method: 8321B | Date Collected: 10/17/2011 12:46

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.41(g) | Date Analyzed: 11/03/2011 19:33

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21784.d		
Lims ID:	280-21902-A-60-C	Client ID:	SB021
Inject. Date:	03-Nov-2011 19:33:56	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-60-C 280-0002711-035		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	115
Lims Batch ID:	94611	Lims Sample ID:	35
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:50	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:36:56

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		737606	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2239188	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1392292	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	524677	76.3			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4830324	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

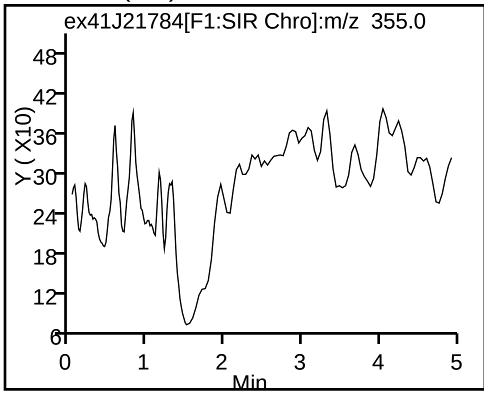
QC Flag Legend

Processing Flags
1 - Missing Peaks

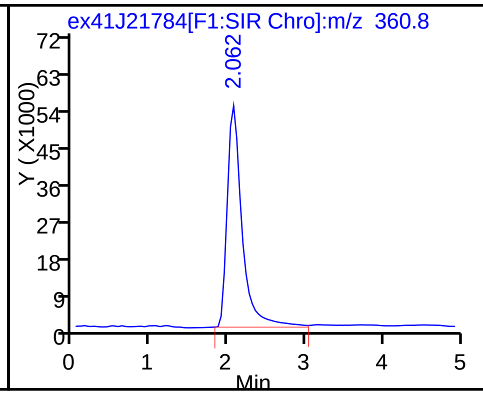
Report Date: 04-Nov-2011 06:46:56 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21784.d

Injection Date:	03-Nov-2011 19:33:56	Limit Group:	LC - 8321A Expl
Client ID:	SB021	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	35
Operator ID:		Injection Vol:	40.00 ul

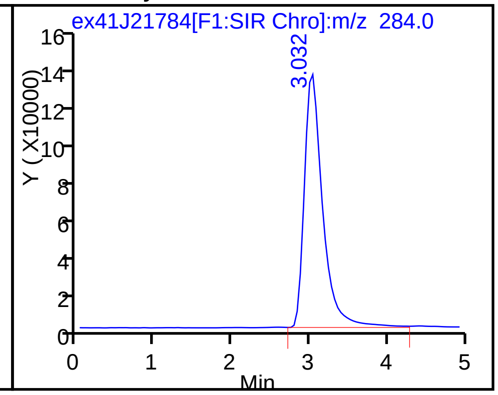
2 HMX (ND)



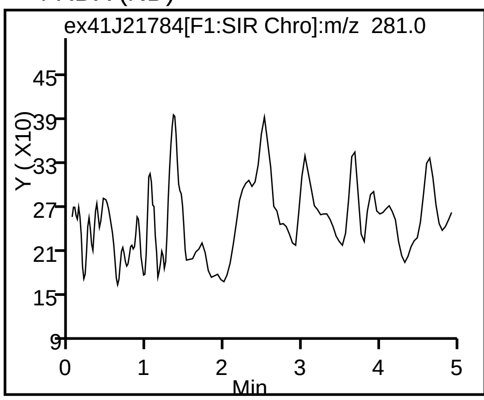
* 1 HMX-13C4



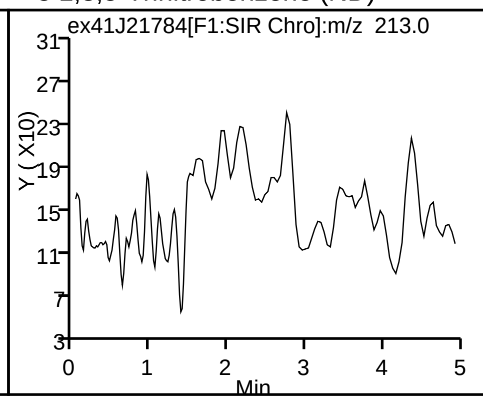
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



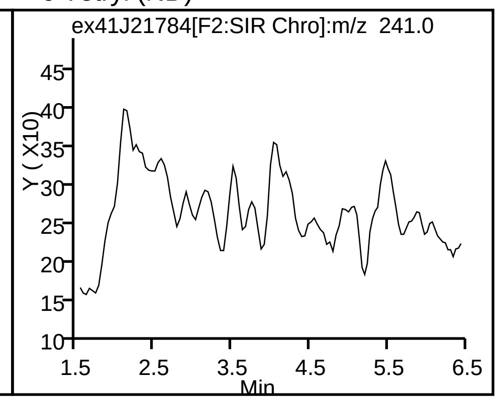
4 RDX (ND)



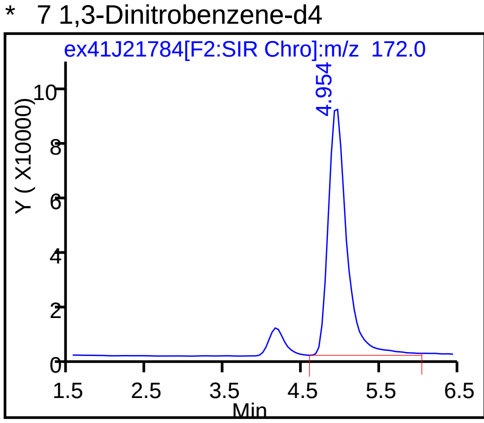
5 1,3,5-Trinitrobenzene (ND)



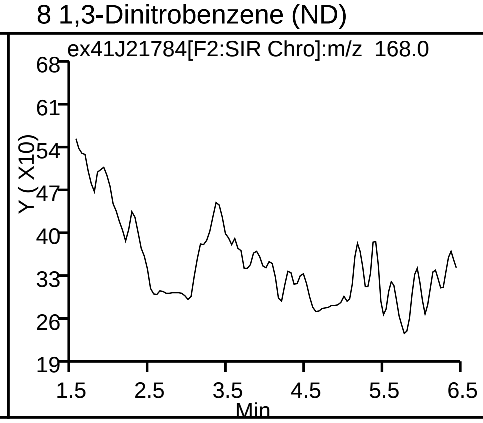
6 Tetryl (ND)



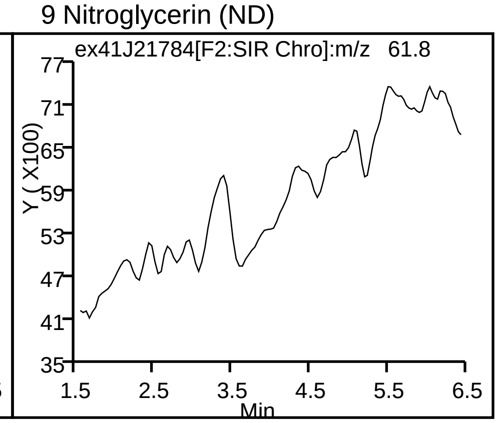
* 7 1,3-Dinitrobenzene-d4



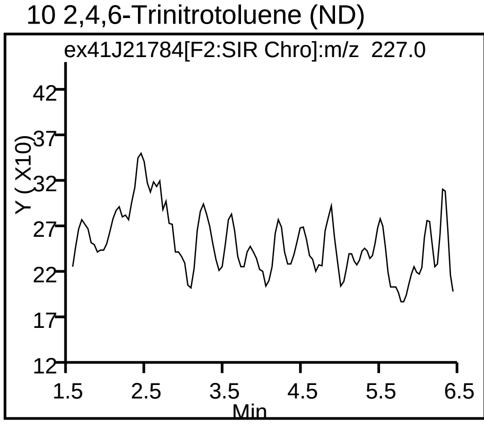
8 1,3-Dinitrobenzene (ND)



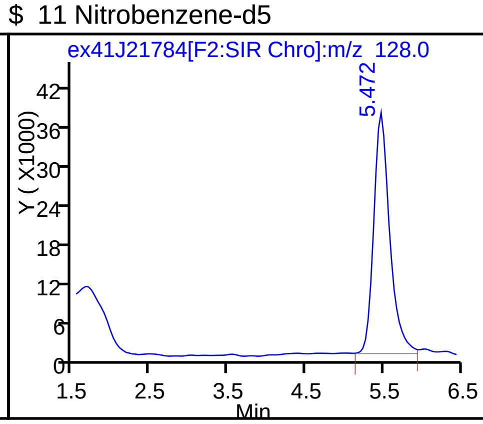
9 Nitroglycerin (ND)



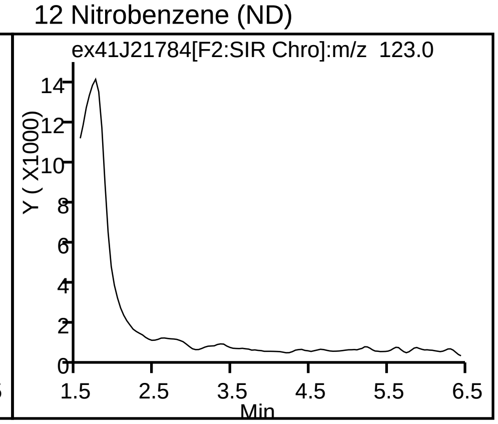
10 2,4,6-Trinitrotoluene (ND)



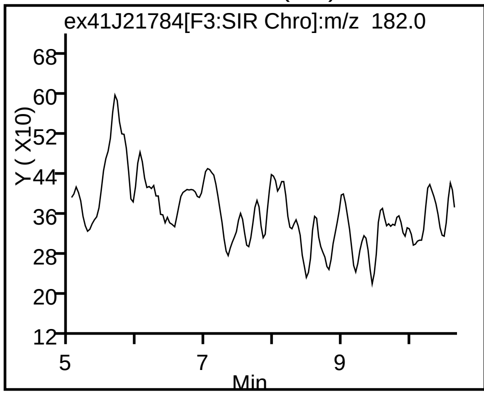
$ 11 Nitrobenzene-d5



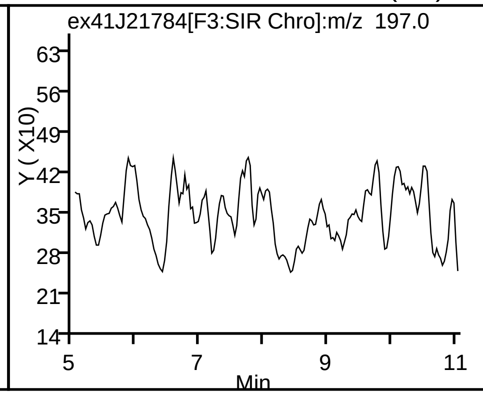
12 Nitrobenzene (ND)



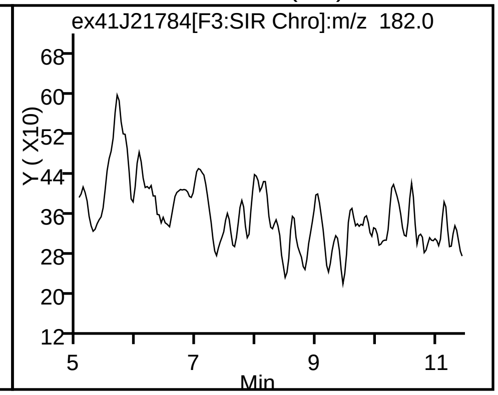
13 3,4-Dinitrotoluene (ND)



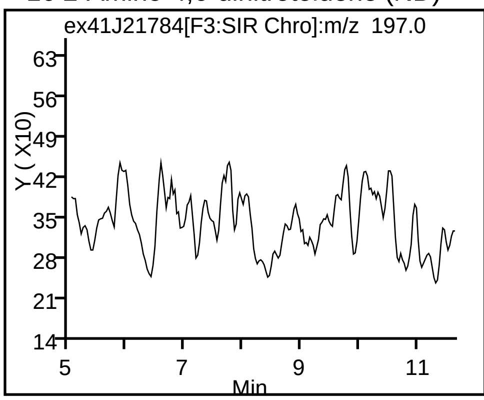
14 4-Amino-2,6-dinitrotoluene (ND)



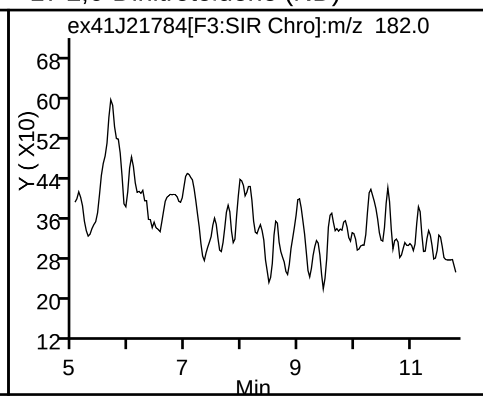
15 2,3-Dinitrotoluene (ND)



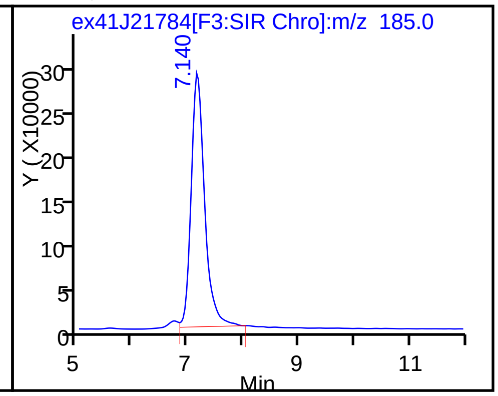
16 2-Amino-4,6-dinitrotoluene (ND)



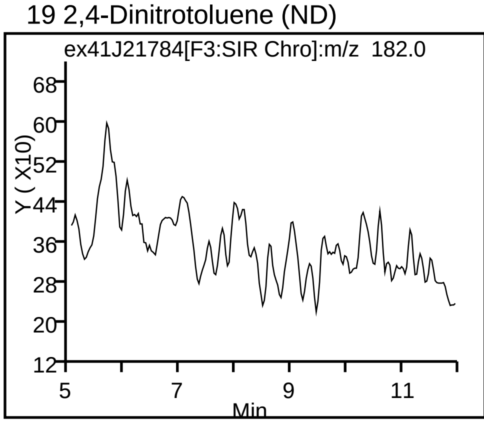
17 2,6-Dinitrotoluene (ND)



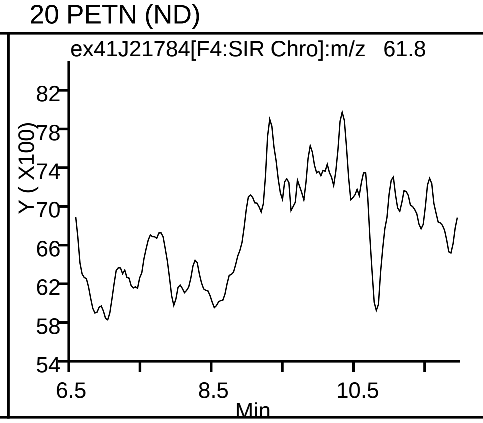
* 18 2,4-dinitrotoluene-d3



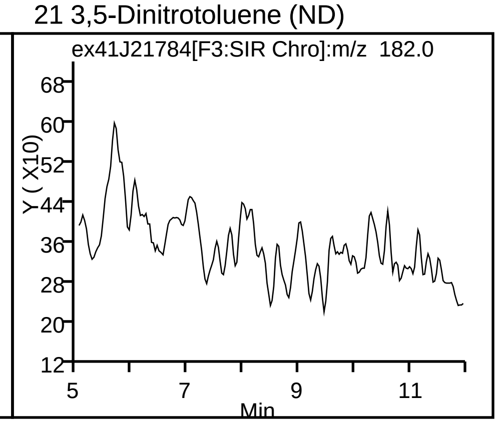
19 2,4-Dinitrotoluene (ND)



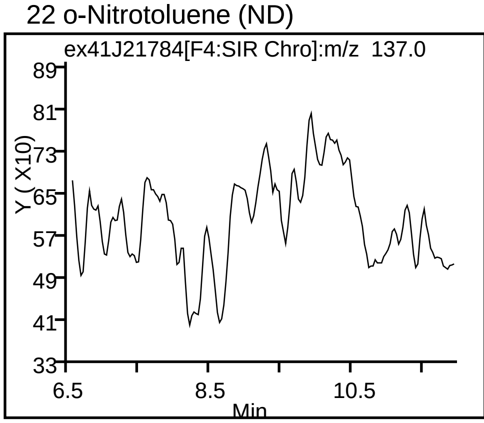
20 PETN (ND)



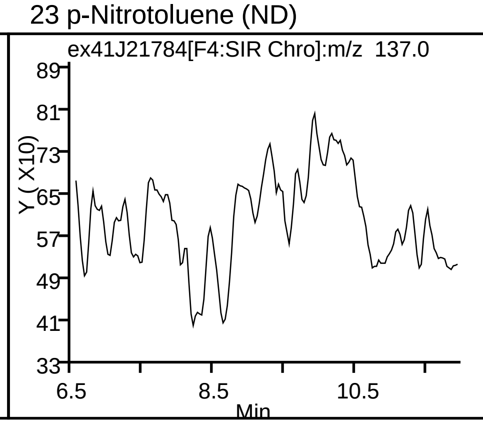
21 3,5-Dinitrotoluene (ND)



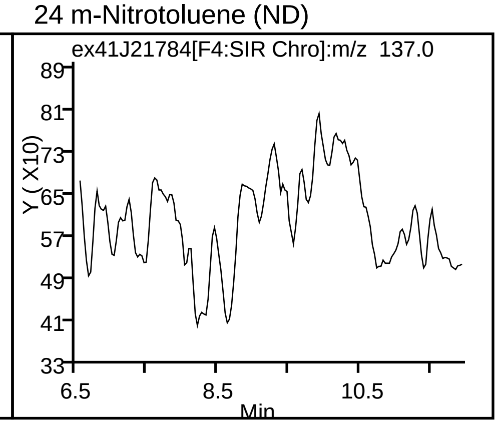
22 o-Nitrotoluene (ND)



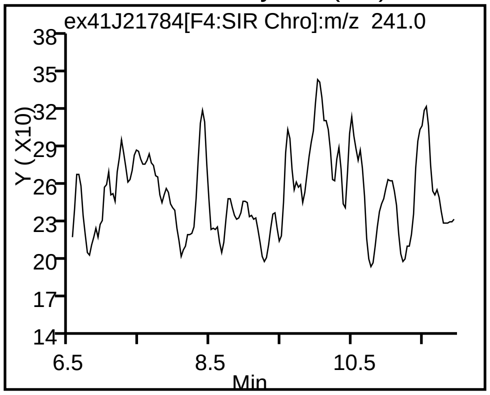
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP13 SB020 | Lab Sample ID: 280-21902-61

Matrix: Solid | Lab File ID: ex41J21785.d

Analysis Method: 8321B | Date Collected: 10/17/2011 12:50

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.95(g) | Date Analyzed: 11/03/2011 19:47

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.091	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.011	U	0.091	0.011	0.0065
118-96-7	2,4,6-Trinitrotoluene	0.011	U	0.091	0.011	0.0046
121-14-2	2,4-Dinitrotoluene	0.011	U	0.091	0.011	0.0075
606-20-2	2,6-Dinitrotoluene	0.023	U	0.091	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.091	0.023	0.011
88-72-2	2-Nitrotoluene	0.011	U	0.091	0.011	0.0052
99-08-1	3-Nitrotoluene	0.023	U	0.091	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.011	U	0.091	0.011	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.091	0.023	0.010
2691-41-0	HMX	0.011	U	0.091	0.011	0.0053
98-95-3	Nitrobenzene	0.011	U	0.091	0.011	0.0099
55-63-0	Nitroglycerin	0.011	U	0.091	0.011	0.0096
78-11-5	PETN	0.011	U	0.091	0.011	0.0047
121-82-4	RDX	0.011	U	0.091	0.011	0.0039
479-45-8	Tetryl	0.011	U	0.091	0.011	0.0069

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21785.d		
Lims ID:	280-21902-B-61-B	Client ID:	SB020
Inject. Date:	03-Nov-2011 19:47:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-61-B 280-0002711-036		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	116
Lims Batch ID:	94611	Lims Sample ID:	36
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:50	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:37:07

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		817282	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2428310	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1565412	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	623274	80.6			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4633113	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										
4	137.0		8.193							
23 p-Nitrotoluene										
4	137.0		8.739							
24 m-Nitrotoluene										
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

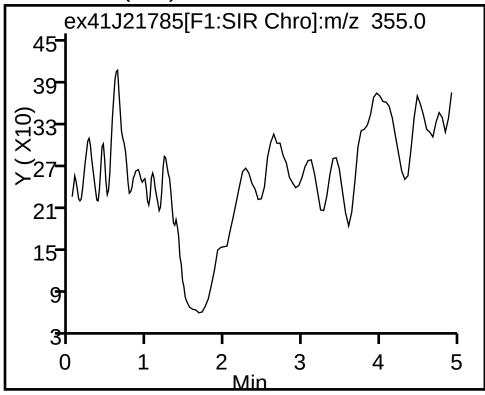
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:46:56 | Chrom Revision: 1.2 13-Jul-2011 10:43:06

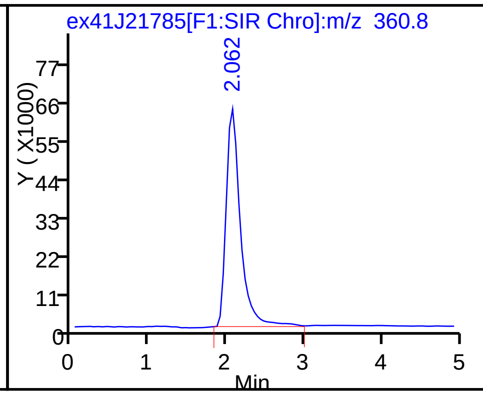
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21785.d

Injection Date:	03-Nov-2011 19:47:30	Limit Group:	LC - 8321A Expl
Client ID:	SB020	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	36
Operator ID:		Injection Vol:	40.00 ul

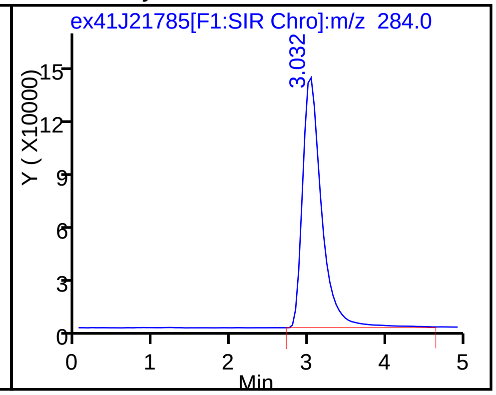
2 HMX (ND)



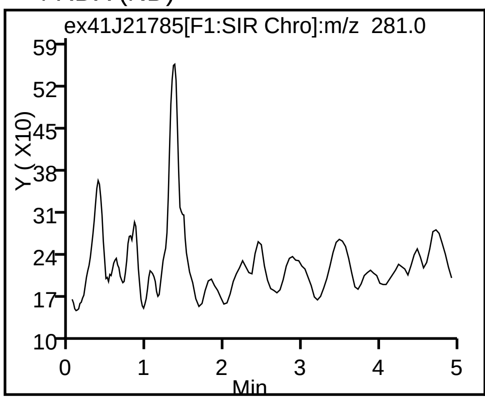
* 1 HMX-13C4



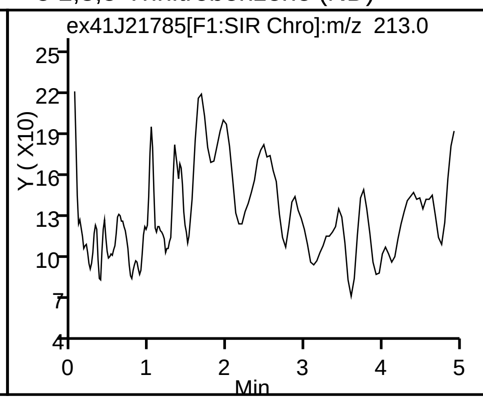
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



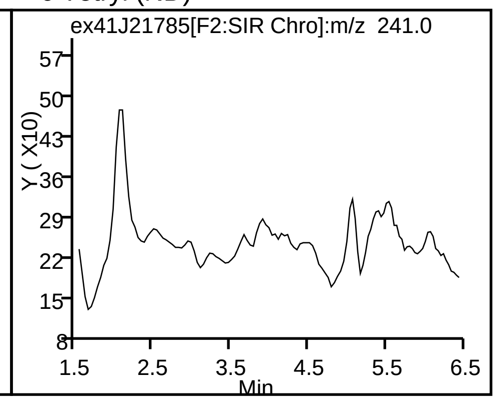
4 RDX (ND)



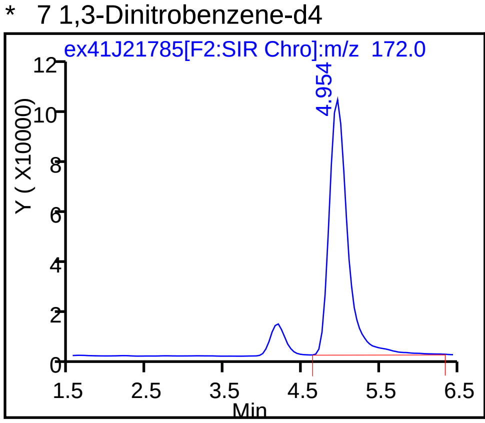
5 1,3,5-Trinitrobenzene (ND)



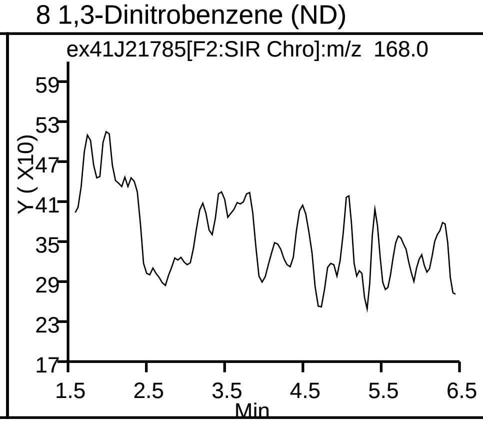
6 Tetryl (ND)



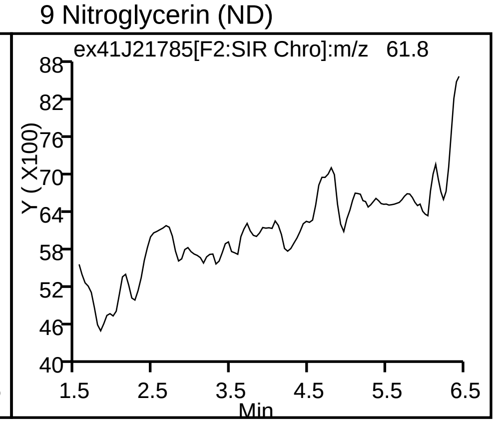
* 7 1,3-Dinitrobenzene-d4



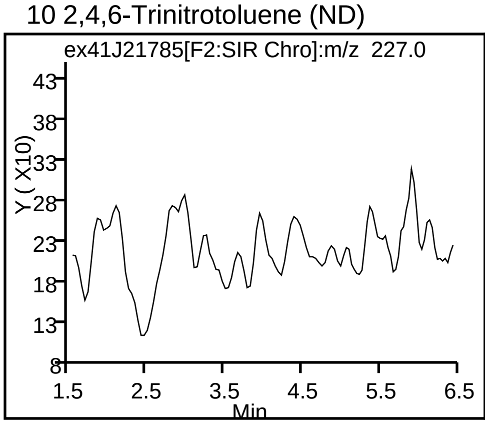
8 1,3-Dinitrobenzene (ND)



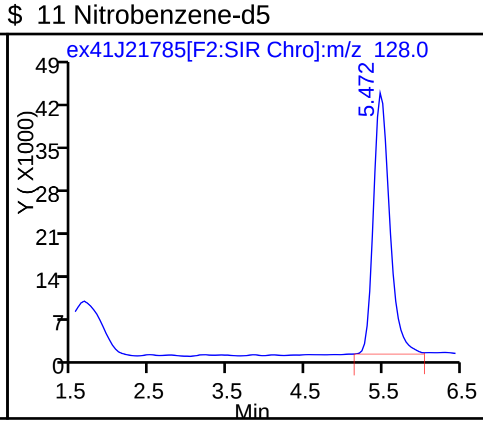
9 Nitroglycerin (ND)



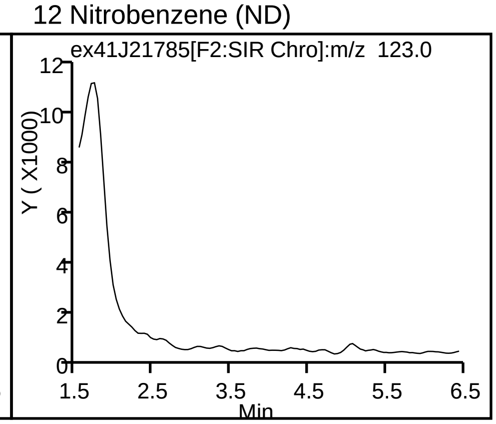
10 2,4,6-Trinitrotoluene (ND)



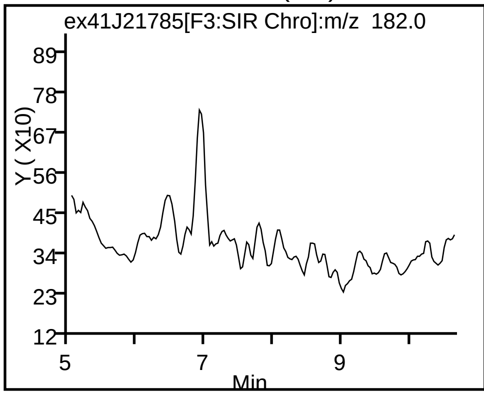
$ 11 Nitrobenzene-d5



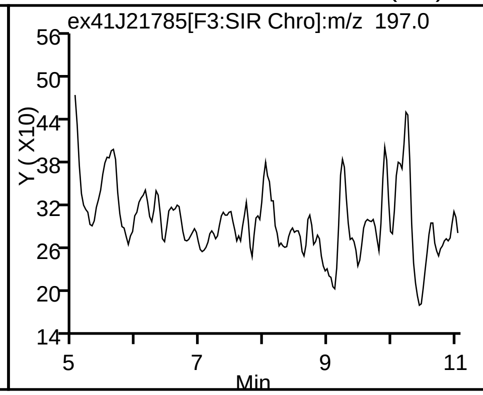
12 Nitrobenzene (ND)



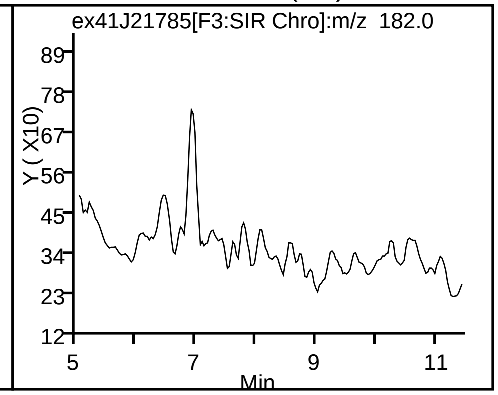
13 3,4-Dinitrotoluene (ND)



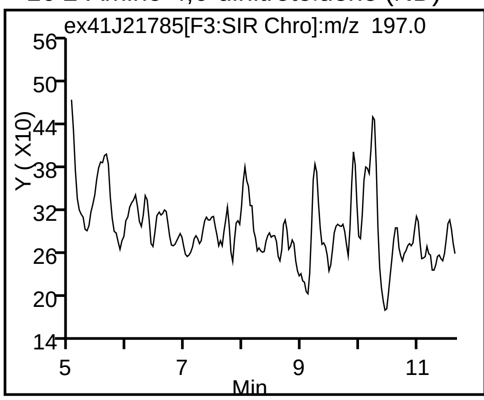
14 4-Amino-2,6-dinitrotoluene (ND)



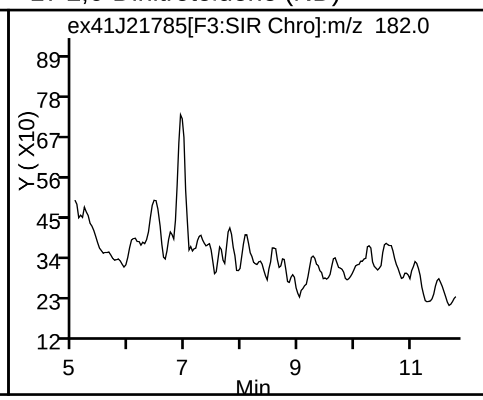
15 2,3-Dinitrotoluene (ND)



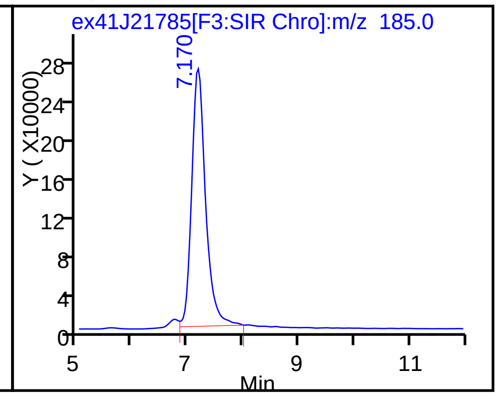
16 2-Amino-4,6-dinitrotoluene (ND)



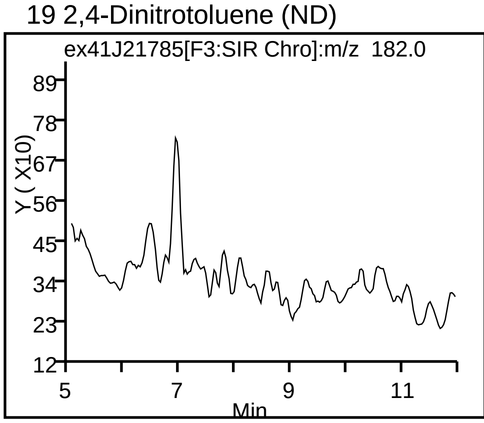
17 2,6-Dinitrotoluene (ND)



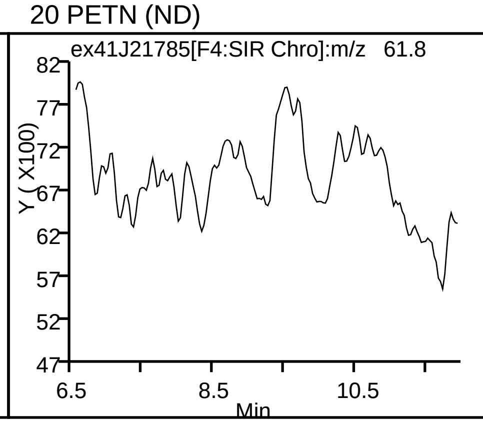
* 18 2,4-dinitrotoluene-d3



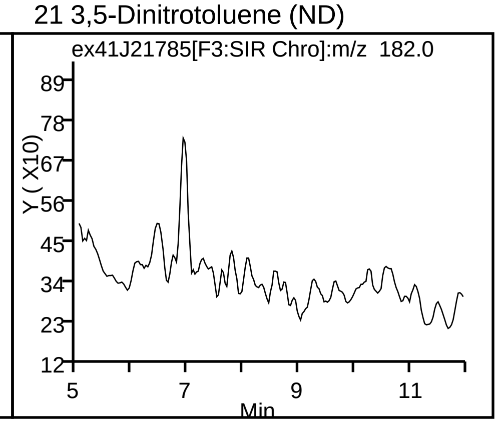
19 2,4-Dinitrotoluene (ND)



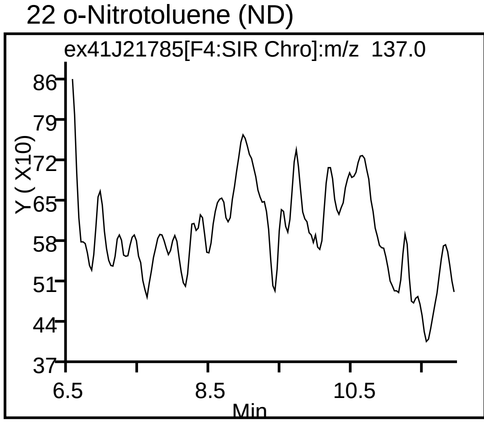
20 PETN (ND)



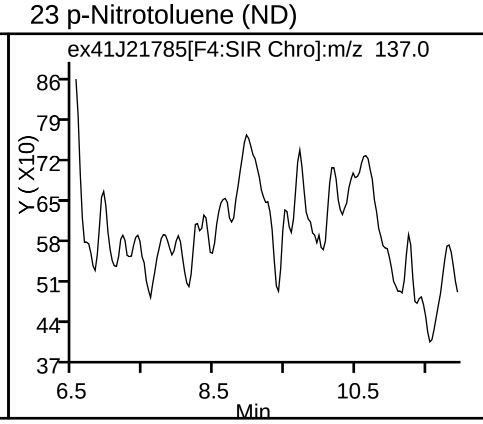
21 3,5-Dinitrotoluene (ND)



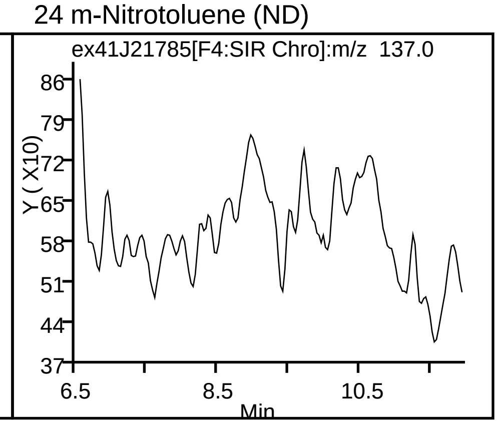
22 o-Nitrotoluene (ND)



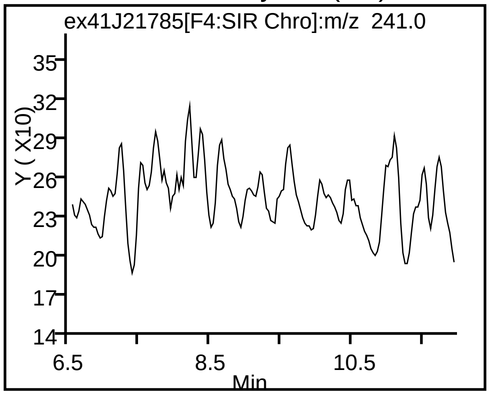
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver　　Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP14 SB023　　Lab Sample ID: 280-21902-63

Matrix: Solid　　Lab File ID: ex41J21792.d

Analysis Method: 8321B　　Date Collected: 10/17/2011 13:06

Extraction Method: 8330B　　Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.61(g)　　Date Analyzed: 11/03/2011 21:23

Con. Extract Vol.: 40(mL)　　Dilution Factor: 1

Injection Volume: 40(uL)　　GC Column: IonPac　　ID: 2(mm)

% Moisture:　　GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611　　Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.094	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.024	U	0.094	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.094	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.094	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.094	0.024	0.010
2691-41-0	HMX	0.012	U	0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.094	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.094	0.012	0.0099
78-11-5	PETN	0.012	U	0.094	0.012	0.0049
121-82-4	RDX	0.012	U	0.094	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.094	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	75		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21792.d		
Lims ID:	280-21902-B-63-B	Client ID:	SB023
Inject. Date:	03-Nov-2011 21:23:25	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-63-B 280-0002711-043		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	11
Lims Batch ID:	94611	Lims Sample ID:	43
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:59	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		842183	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2211272	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1578233	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	576820	73.9			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4620773	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										1
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.748							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										1
4	137.0		9.347							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

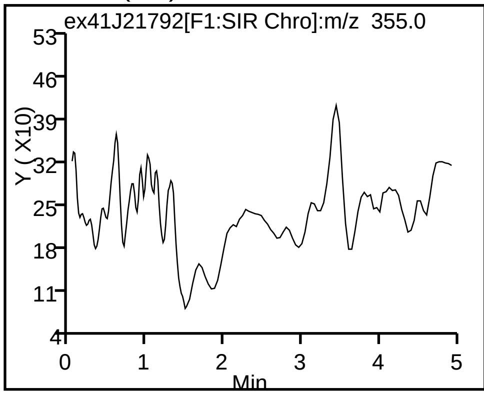
QC Flag Legend

Processing Flags
1 - Missing Peaks

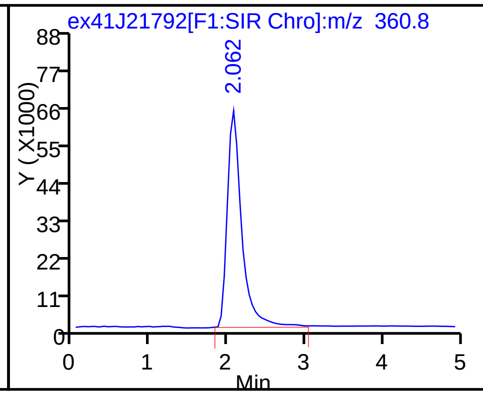
Report Date: 04-Nov-2011 06:47:02　　Chrom Revision: 1.2　13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21792.d		
Injection Date:	03-Nov-2011 21:23:25	Limit Group:	LC - 8321A Expl
Client ID:	SB023	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	43
Operator ID:		Injection Vol:	40.00 ul

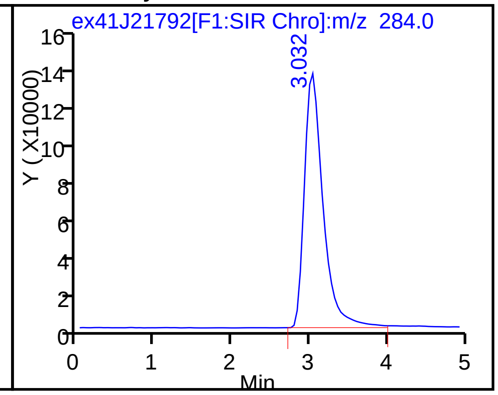
2 HMX (ND)



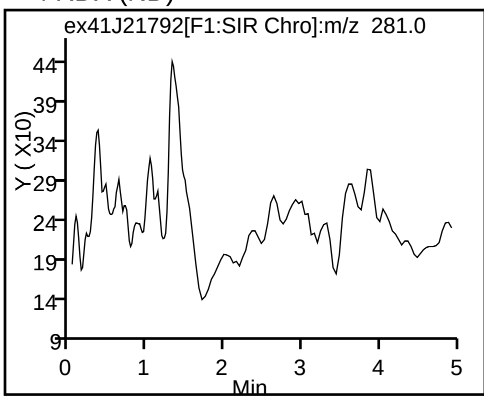
* 1 HMX-13C4



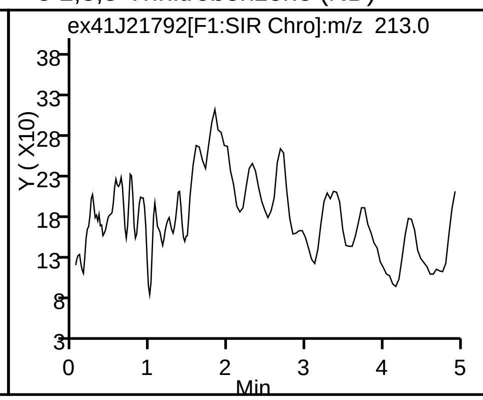
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



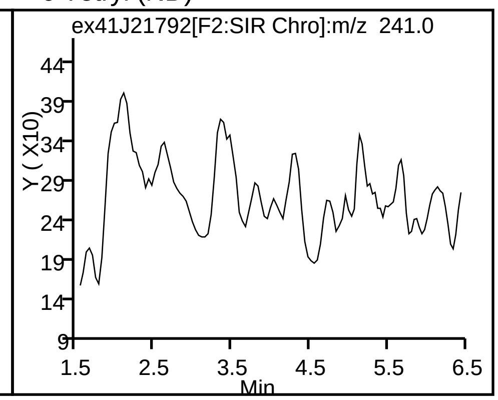
4 RDX (ND)



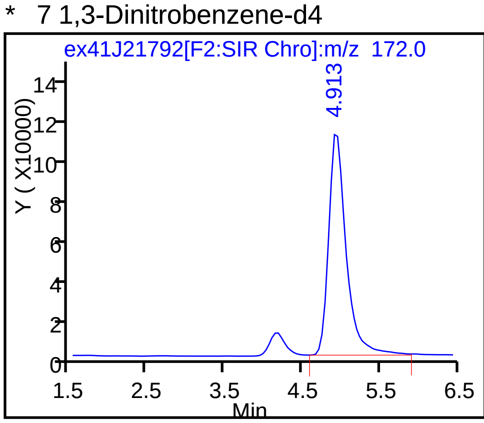
5 1,3,5-Trinitrobenzene (ND)



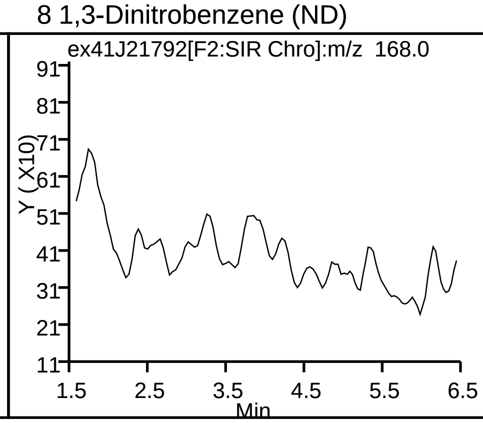
6 Tetryl (ND)



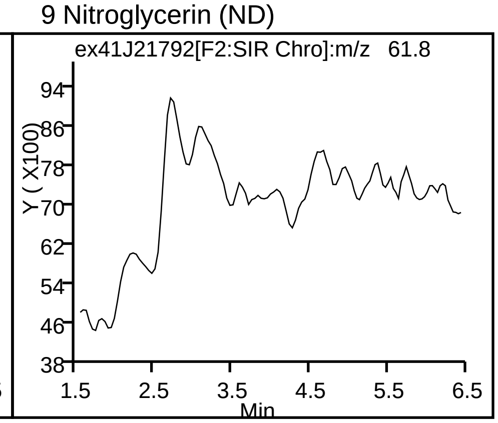
* 7 1,3-Dinitrobenzene-d4



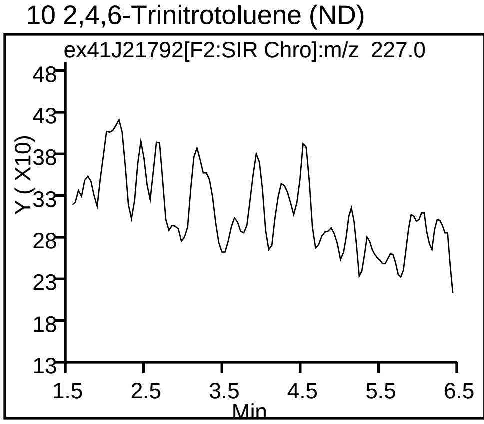
8 1,3-Dinitrobenzene (ND)



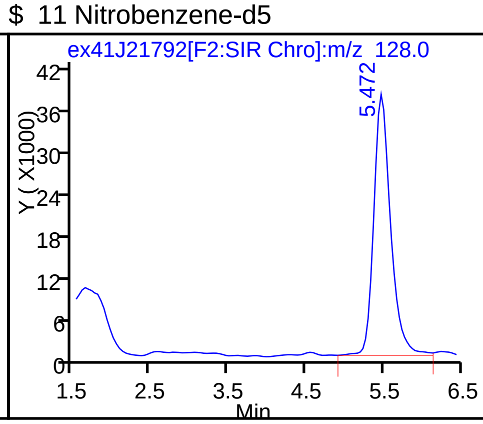
9 Nitroglycerin (ND)



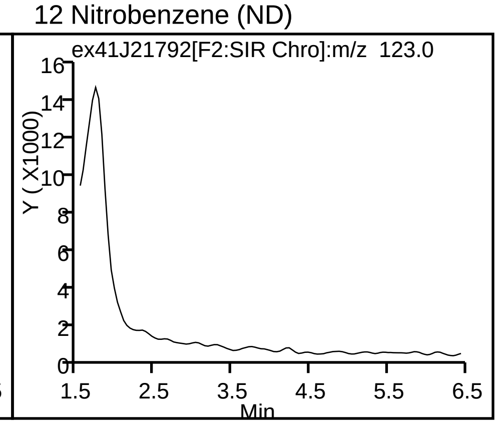
10 2,4,6-Trinitrotoluene (ND)



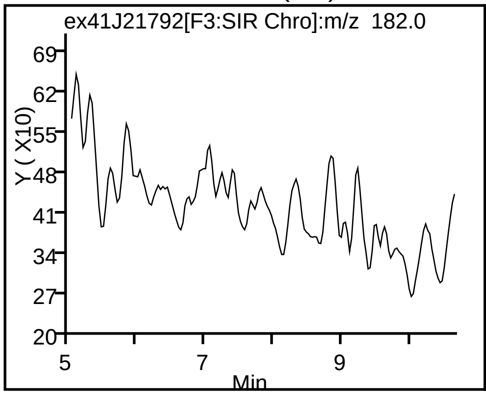
$ 11 Nitrobenzene-d5



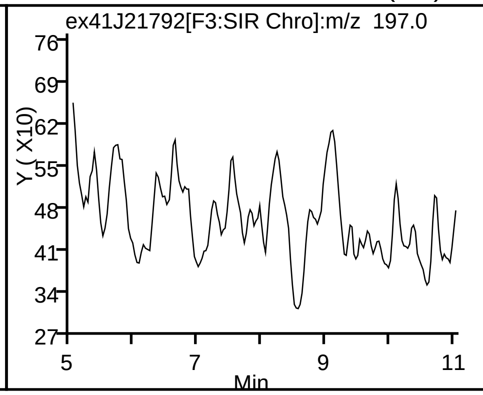
12 Nitrobenzene (ND)



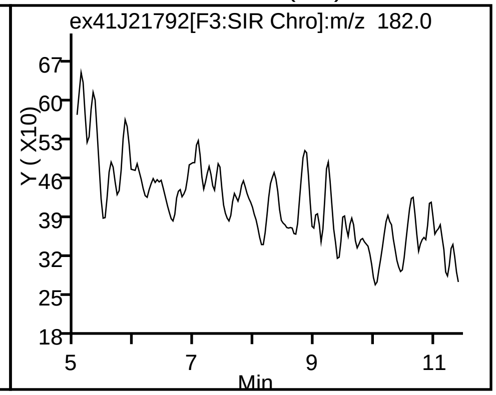
13 3,4-Dinitrotoluene (ND)



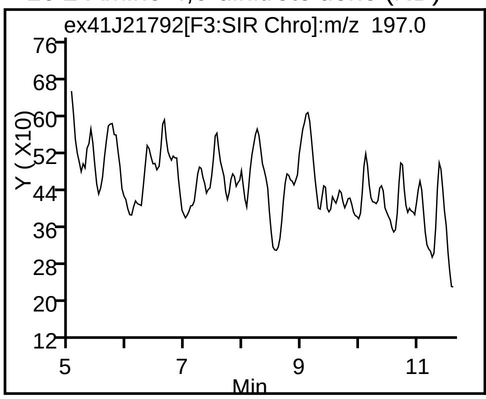
14 4-Amino-2,6-dinitrotoluene (ND)



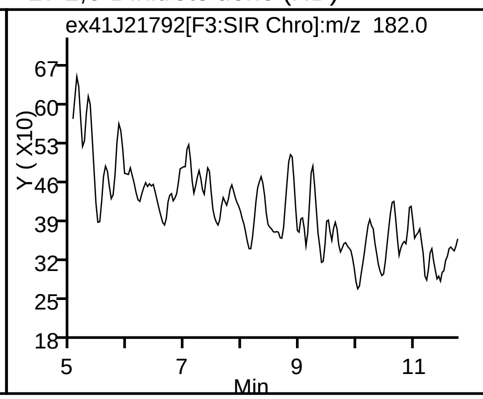
15 2,3-Dinitrotoluene (ND)



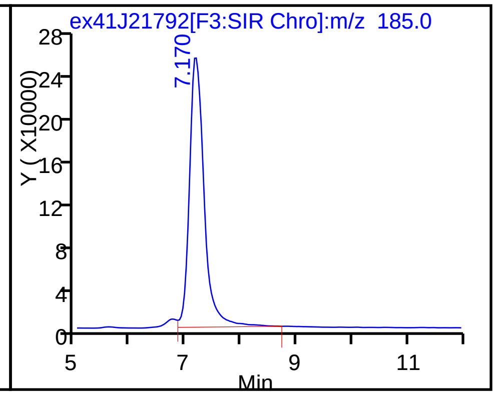
16 2-Amino-4,6-dinitrotoluene (ND)



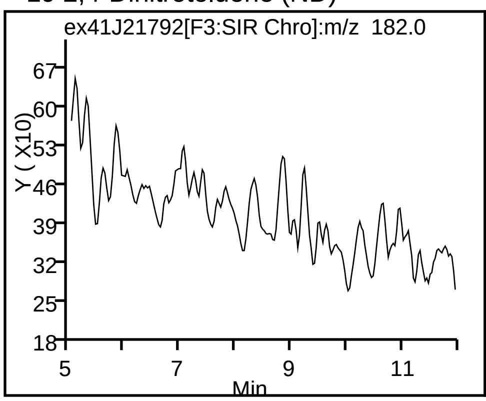
17 2,6-Dinitrotoluene (ND)



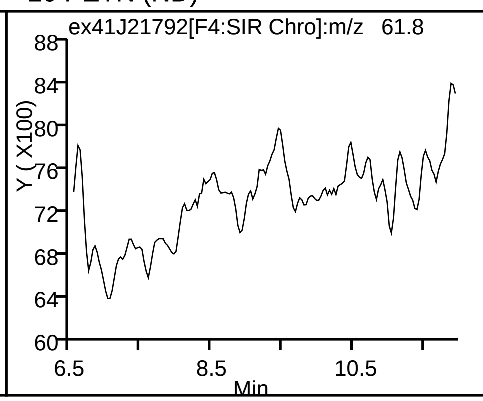
* 18 2,4-dinitrotoluene-d3



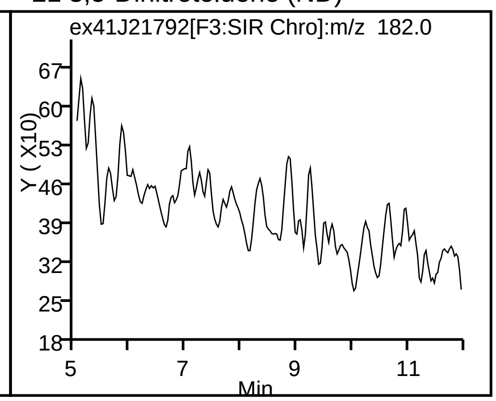
19 2,4-Dinitrotoluene (ND)



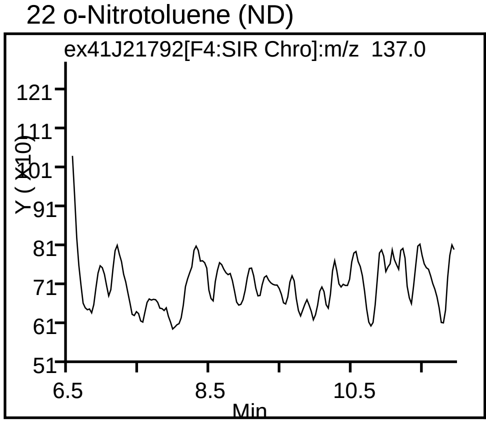
20 PETN (ND)



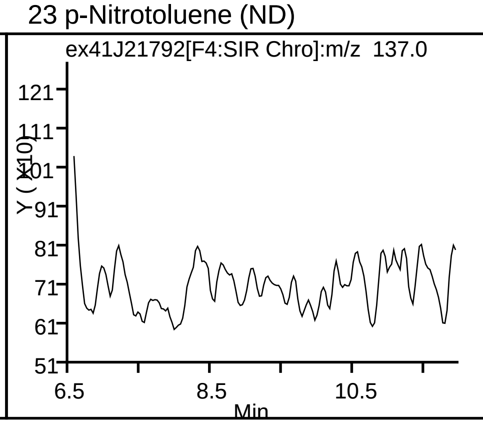
21 3,5-Dinitrotoluene (ND)



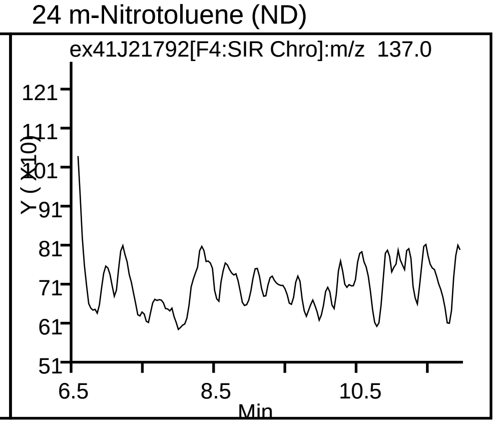
22 o-Nitrotoluene (ND)



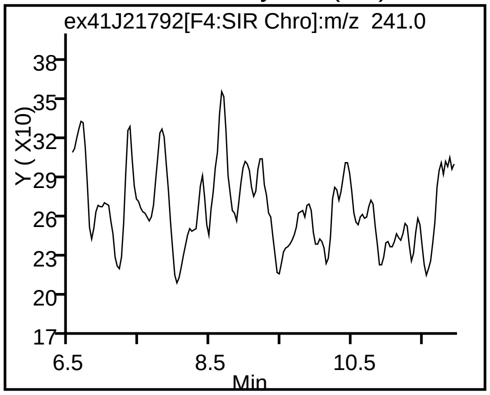
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP14 SB024 Lab Sample ID: 280-21902-64

Matrix: Solid Lab File ID: ex41J21793.d

Analysis Method: 8321B Date Collected: 10/17/2011 13:10

Extraction Method: 8330B Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.64(g) Date Analyzed: 11/03/2011 21:36

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.094	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.023	U	0.094	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.094	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.023	U	0.094	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.094	0.023	0.010
2691-41-0	HMX	0.012	U	0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.094	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.094	0.012	0.0099
78-11-5	PETN	0.012	U	0.094	0.012	0.0048
121-82-4	RDX	0.012	U	0.094	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.094	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	84		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21793.d		
Lims ID:	280-21902-A-64-C	Client ID:	SB024
Inject. Date:	03-Nov-2011 21:36:58	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-64-C 280-0002711-044		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	12
Lims Batch ID:	94611	Lims Sample ID:	44
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:59	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		731434	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2258892	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1600390	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	658675	83.3			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.624							
17	2,6-Dinitrotoluene									1
3	182.0		6.776							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.140	7.140	0.000		4952979	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.201							
20	PETN									1
4	61.8		7.646							
21	3,5-Dinitrotoluene									1
3	182.0		7.748							
22	o-Nitrotoluene									1
4	137.0		8.163							
23	p-Nitrotoluene									1
4	137.0		8.709							
24	m-Nitrotoluene									
4	137.0		9.347							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.227							

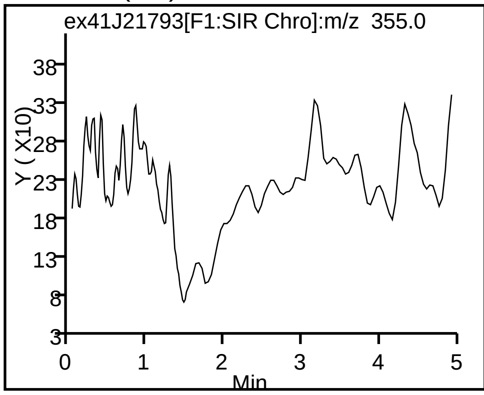
QC Flag Legend

Processing Flags
1 - Missing Peaks

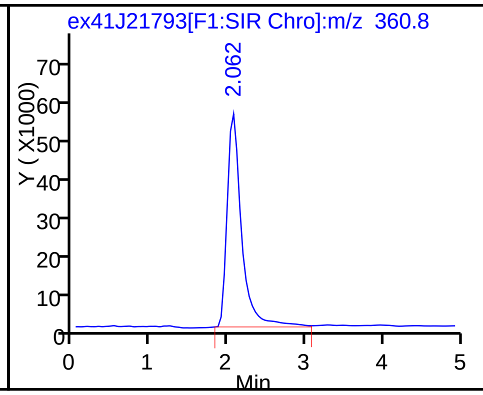
Report Date: 04-Nov-2011 06:47:02 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21793.d

Injection Date:	03-Nov-2011 21:36:58	Limit Group:	LC - 8321A Expl
Client ID:	SB024	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	44
Operator ID:		Injection Vol:	40.00 ul

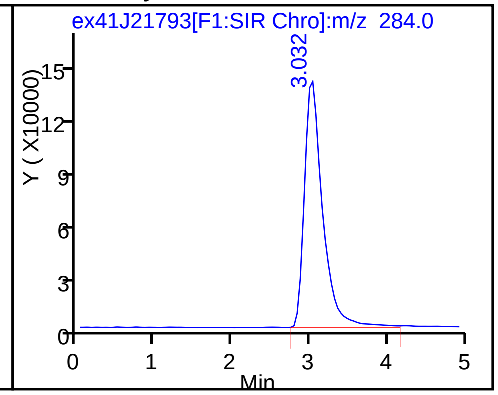
2 HMX (ND)



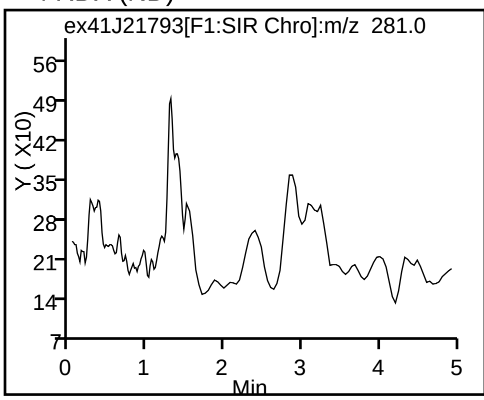
* 1 HMX-13C4



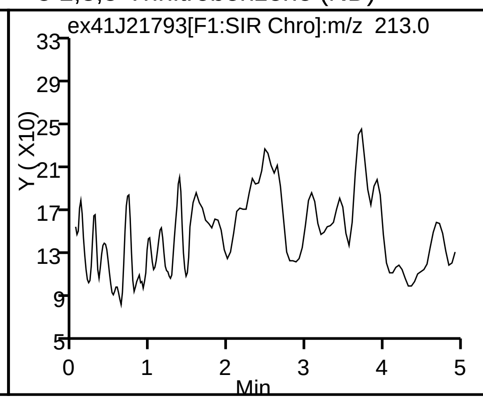
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



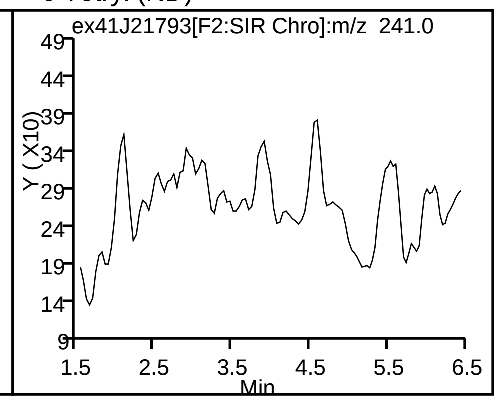
4 RDX (ND)



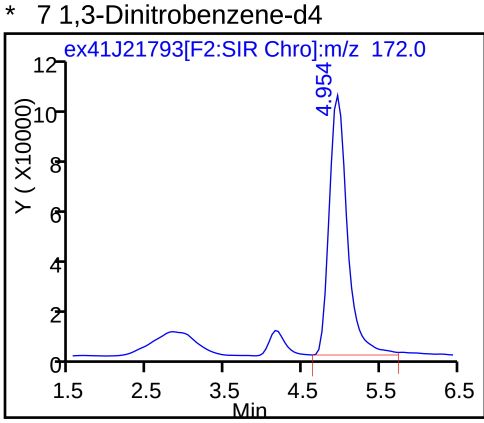
5 1,3,5-Trinitrobenzene (ND)



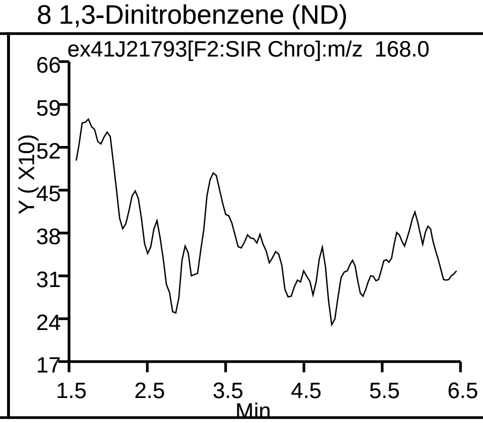
6 Tetryl (ND)



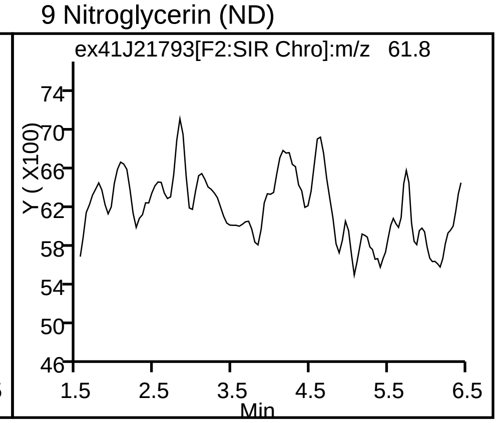
* 7 1,3-Dinitrobenzene-d4



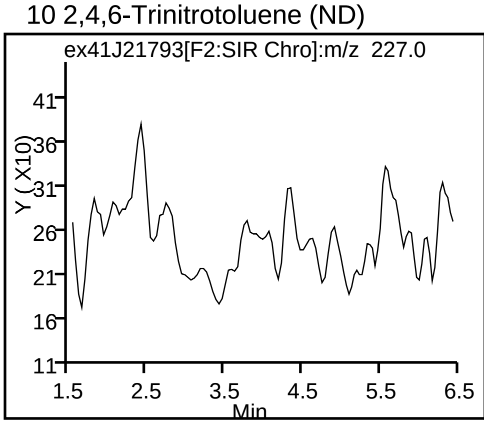
8 1,3-Dinitrobenzene (ND)



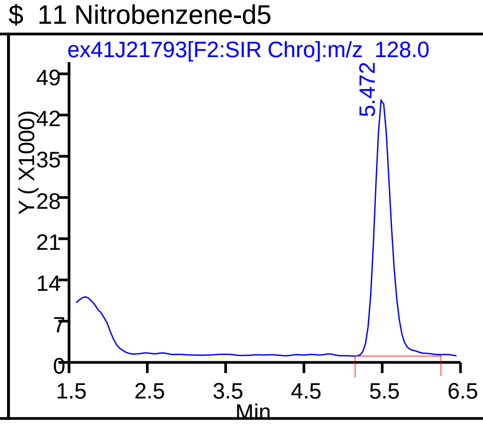
9 Nitroglycerin (ND)



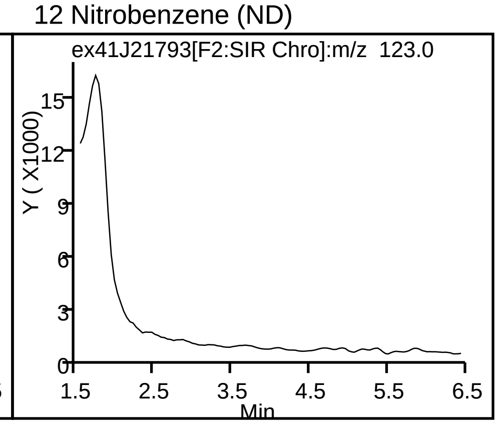
10 2,4,6-Trinitrotoluene (ND)



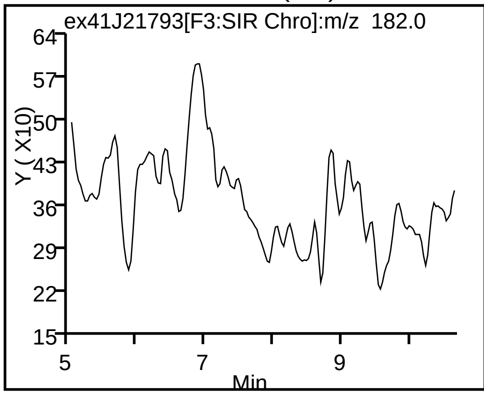
$ 11 Nitrobenzene-d5



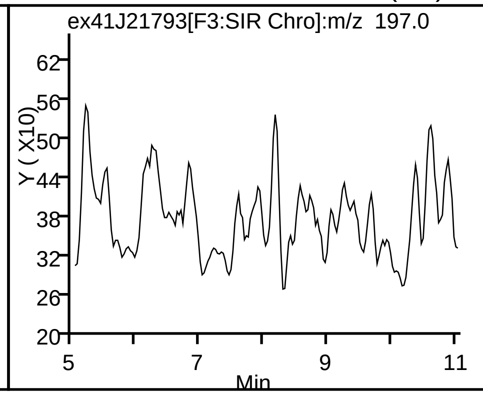
12 Nitrobenzene (ND)



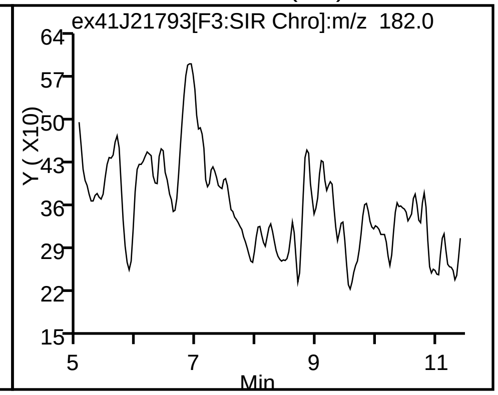
13 3,4-Dinitrotoluene (ND)



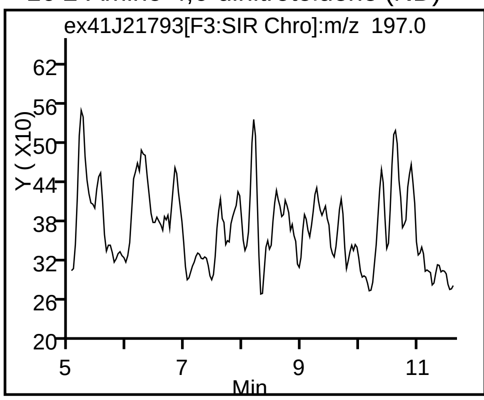
14 4-Amino-2,6-dinitrotoluene (ND)



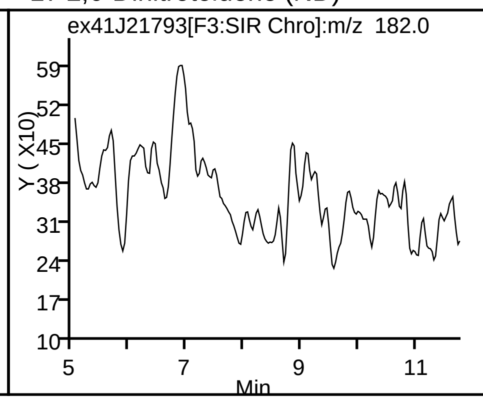
15 2,3-Dinitrotoluene (ND)



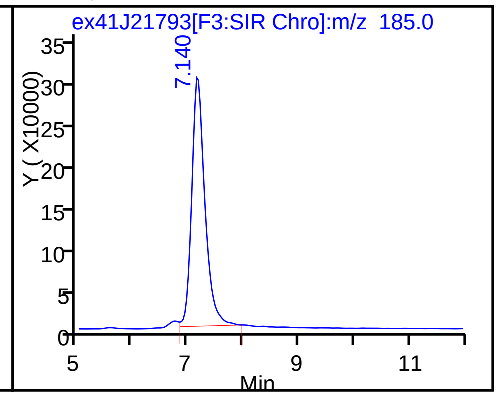
16 2-Amino-4,6-dinitrotoluene (ND)



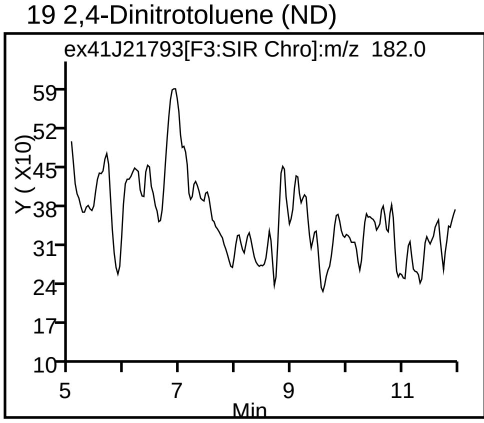
17 2,6-Dinitrotoluene (ND)



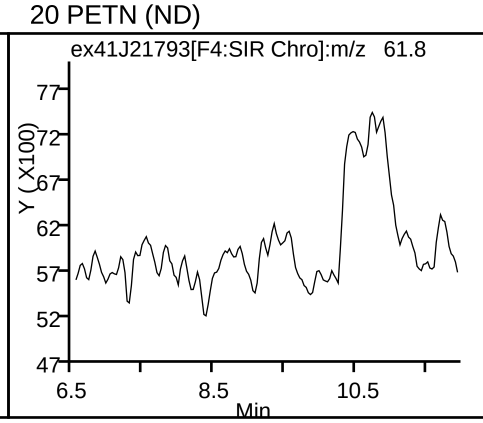
* 18 2,4-dinitrotoluene-d3



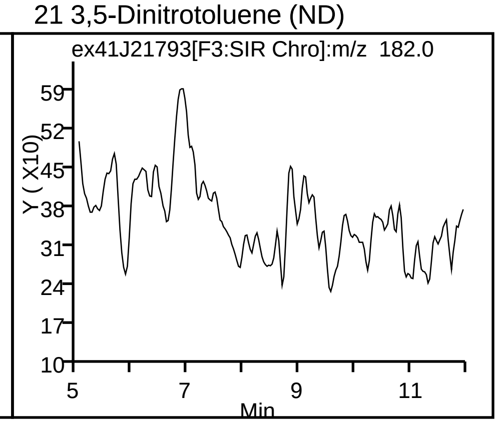
19 2,4-Dinitrotoluene (ND)



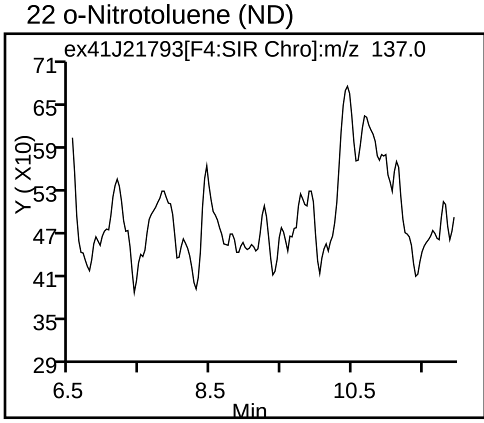
20 PETN (ND)



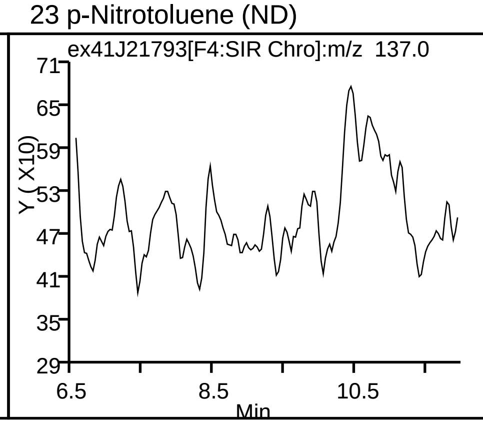
21 3,5-Dinitrotoluene (ND)



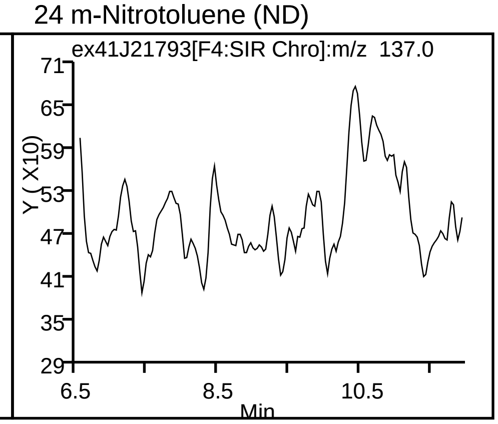
22 o-Nitrotoluene (ND)



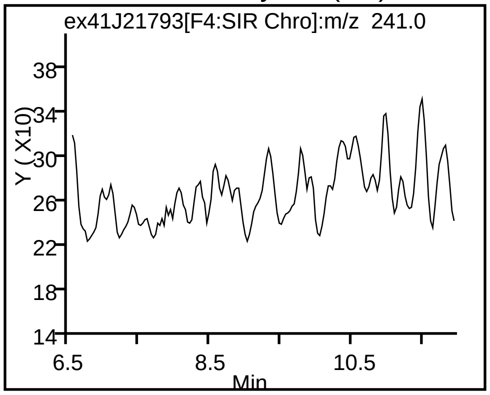
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP18 SB031 | Lab Sample ID: 280-21902-65

Matrix: Solid | Lab File ID: ex41J21794.d

Analysis Method: 8321B | Date Collected: 10/17/2011 13:30

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.47(g) | Date Analyzed: 11/03/2011 21:50

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	88		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21794.d
Lims ID: 280-21902-A-65-C Client ID: SB031
Inject. Date: 03-Nov-2011 21:50:33 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-21902-A-65-C 280-0002711-045
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 13
Lims Batch ID: 94611 Lims Sample ID: 45
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m
Last Update: 04-Nov-2011 06:46:59 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									1
1	355.0		2.062							
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		703906	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	2.991	0.041		2149315	250.0			
	4 RDX									1
1	281.0		3.032							
	5 1,3,5-Trinitrobenzene									1
1	213.0		3.759							
	6 Tetryl									1
2	241.0		4.429							
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.913	0.041		1360456	258.7			
	8 1,3-Dinitrobenzene									1
2	168.0		4.994							
	9 Nitroglycerin									
2	61.8		4.994							
	10 2,4,6-Trinitrotoluene									1
2	227.0		5.371							
$	11 Nitrobenzene-d5									
2	128.0	5.472	5.472	0.000	1.105	581257	86.5			
	12 Nitrobenzene									1
2	123.0		5.573							
	13 3,4-Dinitrotoluene									1
3	182.0		5.651							
	14 4-Amino-2,6-dinitrotoluene									1
3	197.0		6.055							
	15 2,3-Dinitrotoluene									1
3	182.0		6.425							

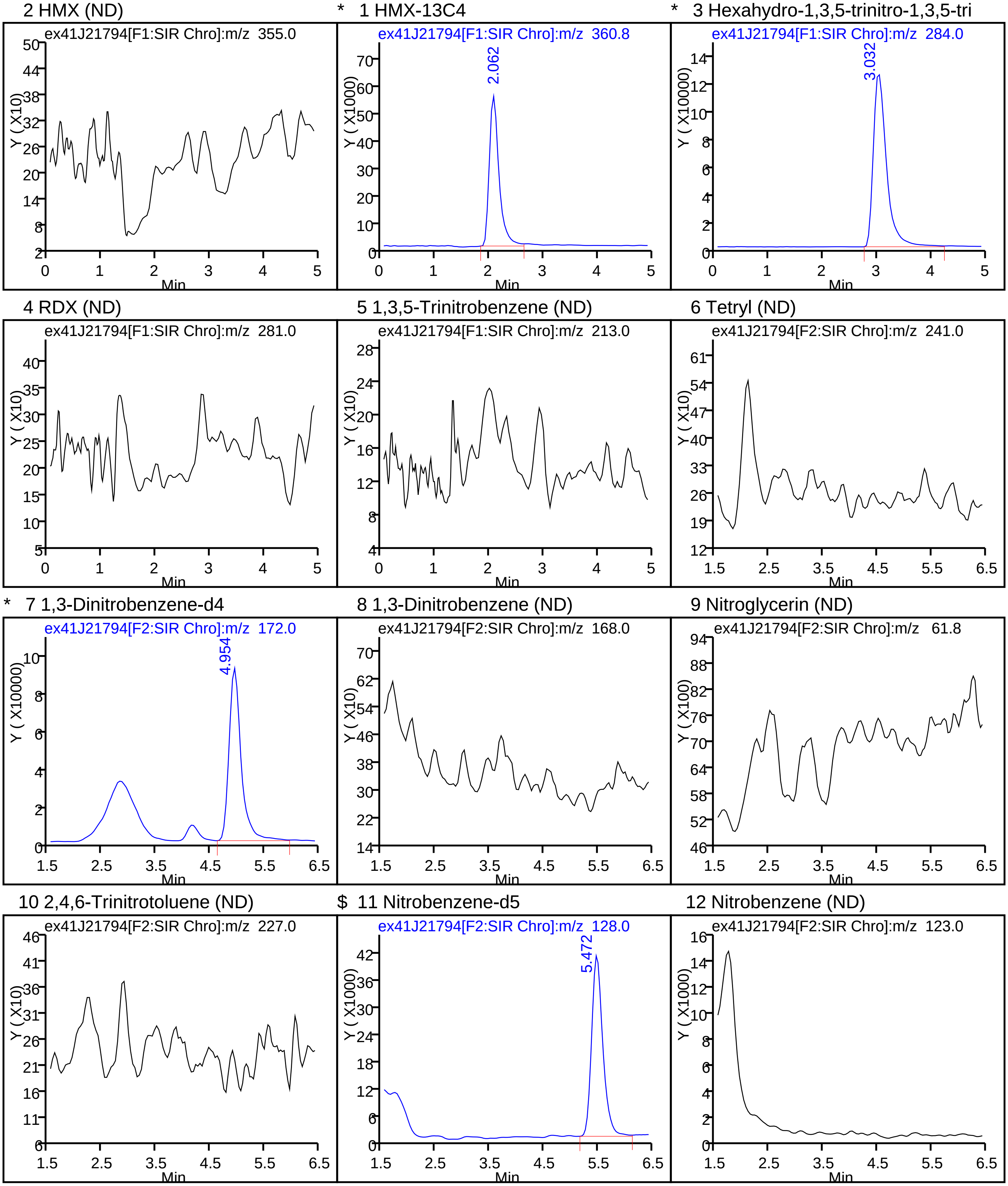
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4272151	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										1
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.748							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										1
4	137.0		9.347							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

QC Flag Legend

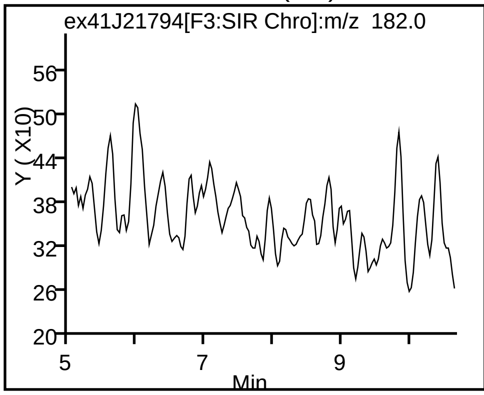
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:47:03 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21794.d

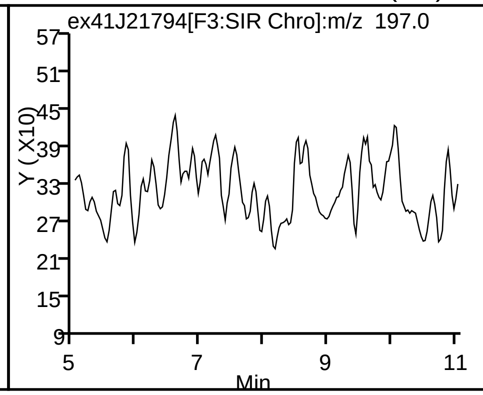
Injection Date:	03-Nov-2011 21:50:33	Limit Group:	LC - 8321A Expl
Client ID:	SB031	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	45
Operator ID:		Injection Vol:	40.00 ul



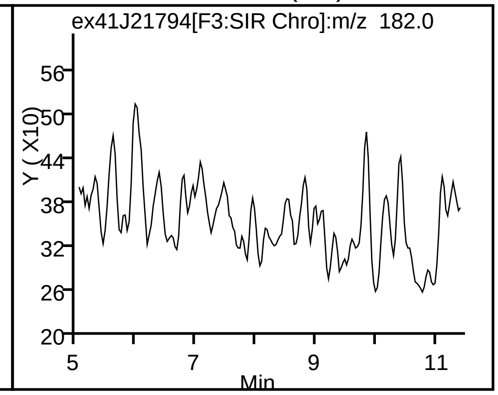
13 3,4-Dinitrotoluene (ND)



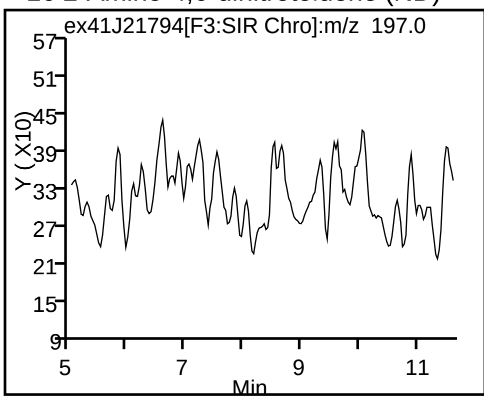
14 4-Amino-2,6-dinitrotoluene (ND)



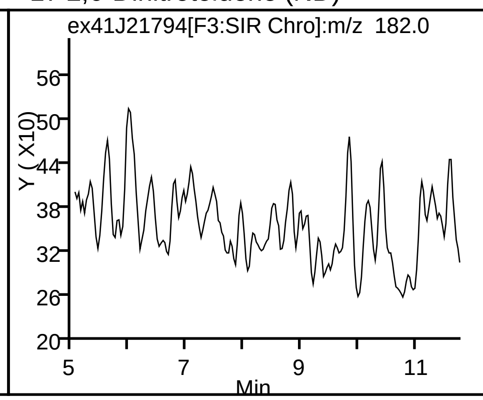
15 2,3-Dinitrotoluene (ND)



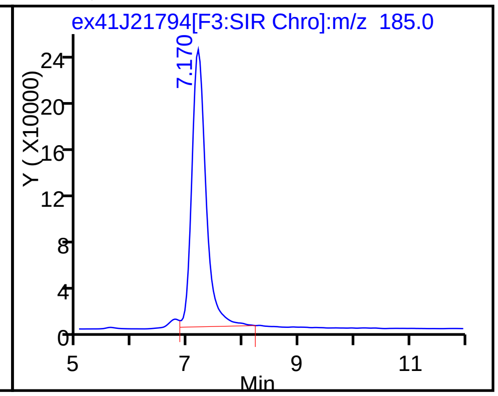
16 2-Amino-4,6-dinitrotoluene (ND)



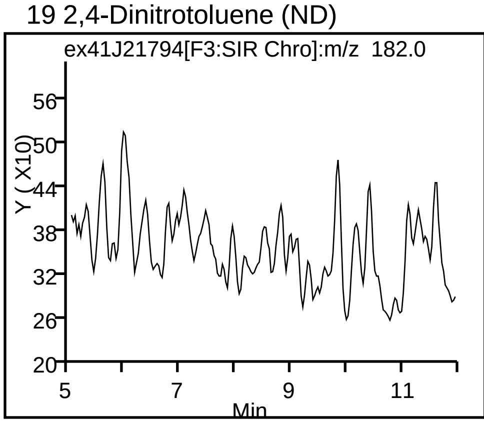
17 2,6-Dinitrotoluene (ND)



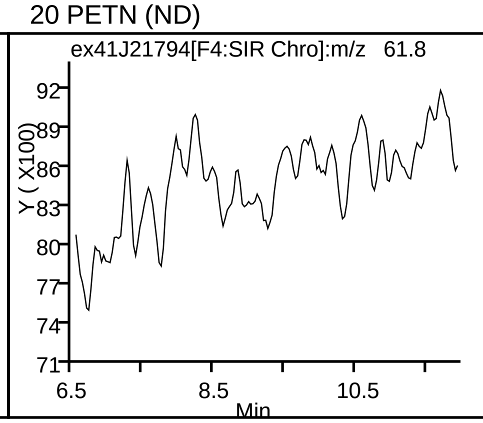
* 18 2,4-dinitrotoluene-d3



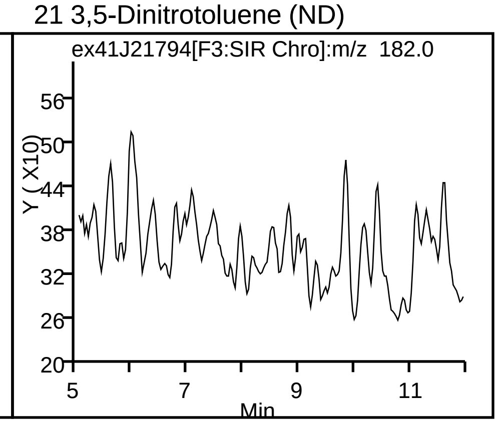
19 2,4-Dinitrotoluene (ND)



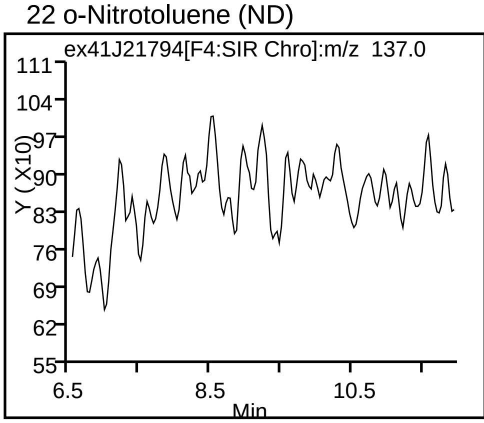
20 PETN (ND)



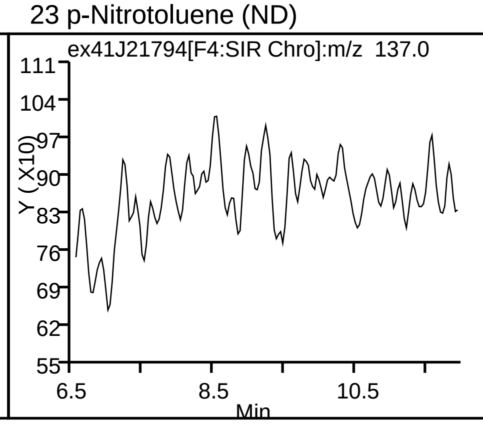
21 3,5-Dinitrotoluene (ND)



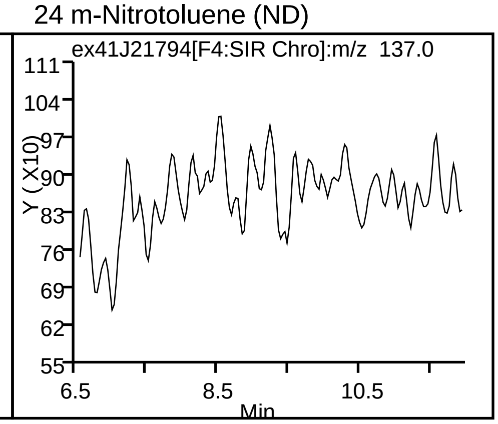
22 o-Nitrotoluene (ND)



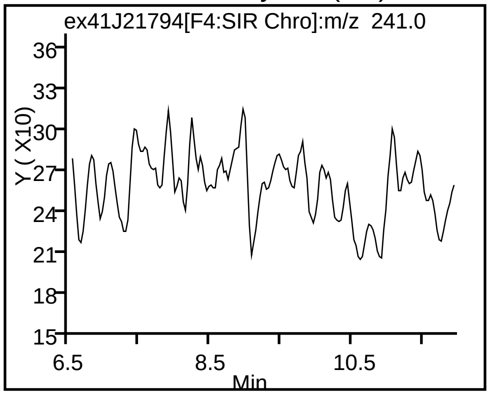
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP18 SB032   Lab Sample ID: 280-21902-66

Matrix: Solid   Lab File ID: ex41J21795.d

Analysis Method: 8321B   Date Collected: 10/17/2011 13:36

Extraction Method: 8330B   Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.16(g)   Date Analyzed: 11/03/2011 22:04

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	86		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21795.d		
Lims ID:	280-21902-B-66-B	Client ID:	SB032
Inject. Date:	03-Nov-2011 22:04:07	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-66-B 280-0002711-046		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	14
Lims Batch ID:	94611	Lims Sample ID:	46
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:59	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		699535	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2163704	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1374721	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	577531	85.1			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.624							
17	2,6-Dinitrotoluene									1
3	182.0		6.776							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.140	7.140	0.000		4650458	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.201							
20	PETN									
4	61.8		7.646							
21	3,5-Dinitrotoluene									1
3	182.0		7.748							
22	o-Nitrotoluene									1
4	137.0		8.163							
23	p-Nitrotoluene									1
4	137.0		8.709							
24	m-Nitrotoluene									1
4	137.0		9.347							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.227							

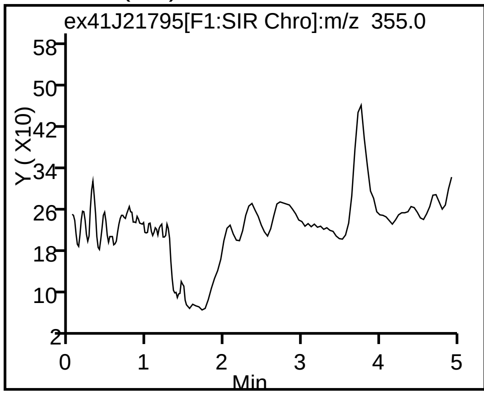
QC Flag Legend

Processing Flags
1 - Missing Peaks

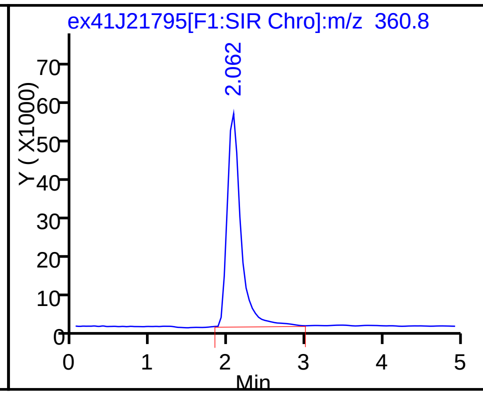
Report Date: 04-Nov-2011 06:47:04 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21795.d

Injection Date:	03-Nov-2011 22:04:07	Limit Group:	LC - 8321A Expl
Client ID:	SB032	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	46
Operator ID:		Injection Vol:	40.00 ul

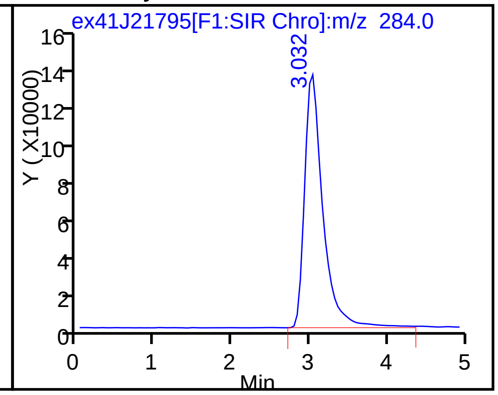
2 HMX (ND)



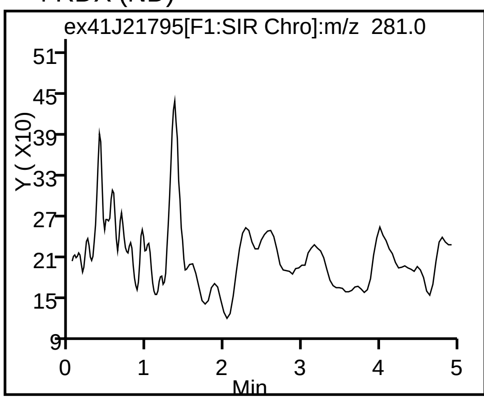
* 1 HMX-13C4



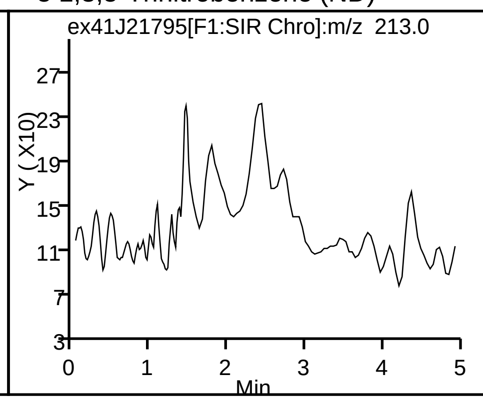
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



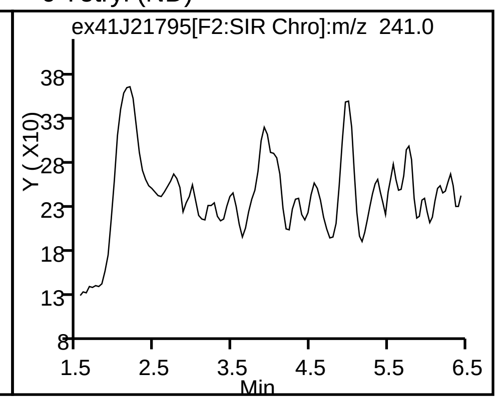
4 RDX (ND)



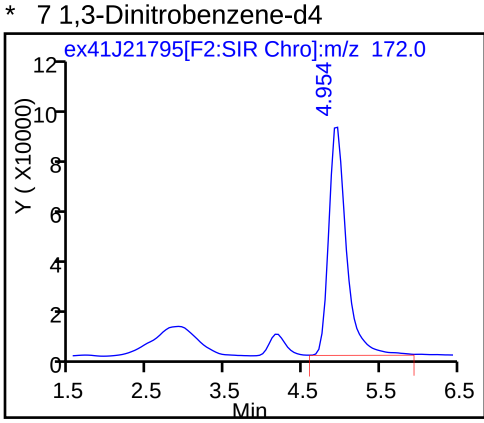
5 1,3,5-Trinitrobenzene (ND)



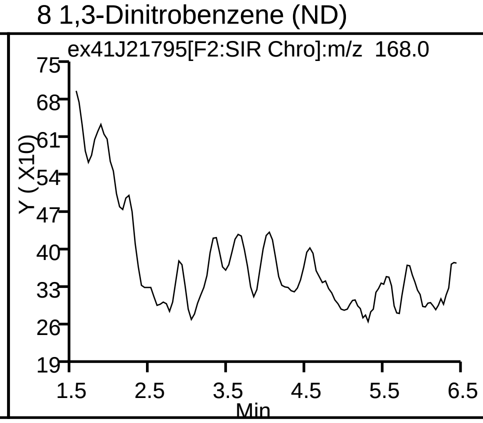
6 Tetryl (ND)



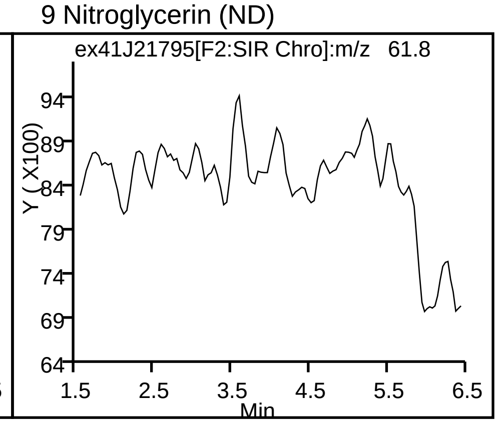
* 7 1,3-Dinitrobenzene-d4



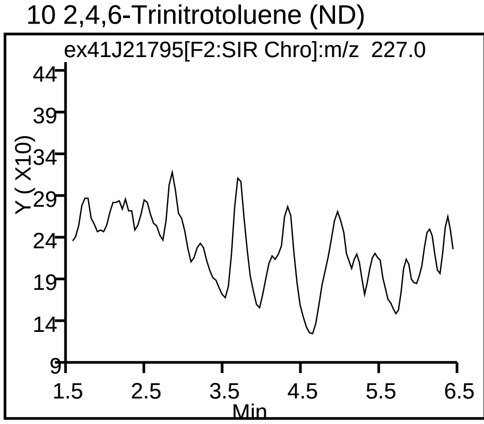
8 1,3-Dinitrobenzene (ND)



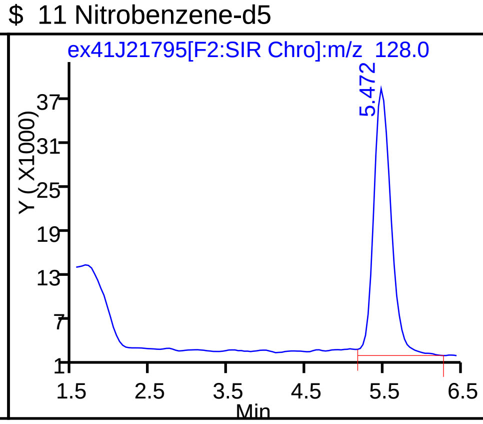
9 Nitroglycerin (ND)



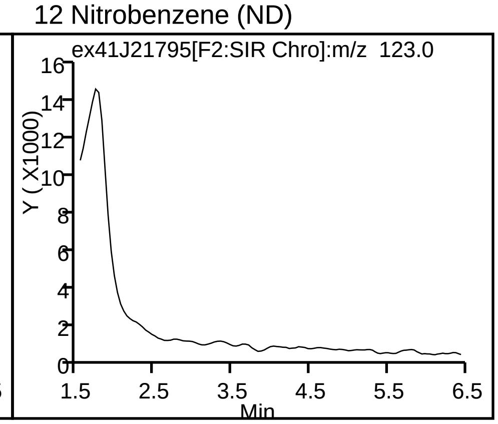
10 2,4,6-Trinitrotoluene (ND)



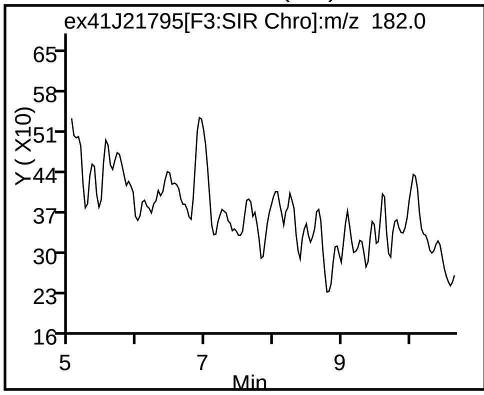
$ 11 Nitrobenzene-d5



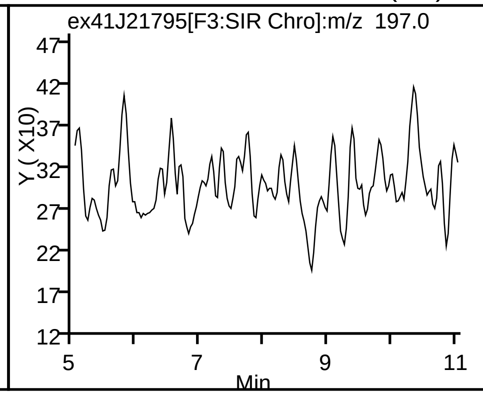
12 Nitrobenzene (ND)



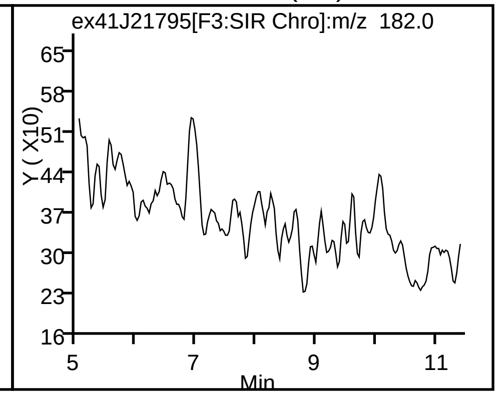
13 3,4-Dinitrotoluene (ND)



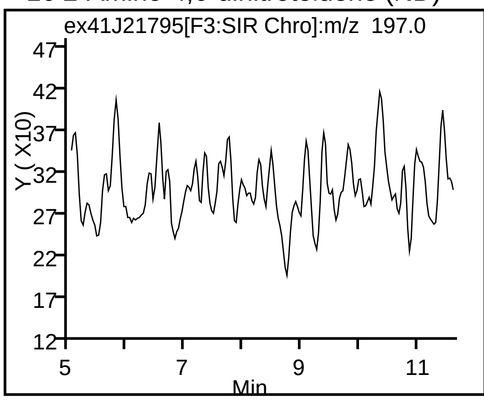
14 4-Amino-2,6-dinitrotoluene (ND)



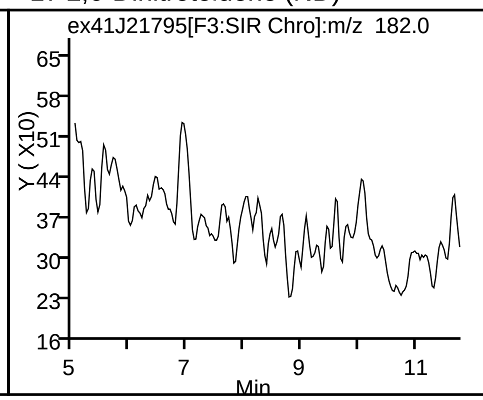
15 2,3-Dinitrotoluene (ND)



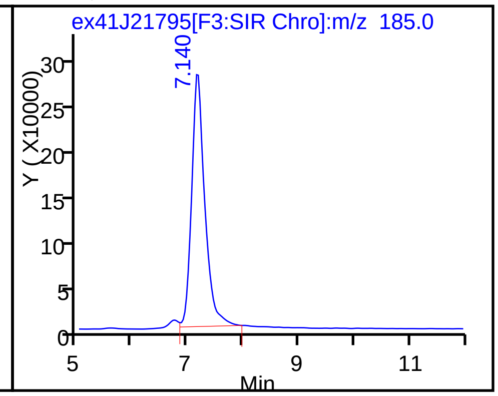
16 2-Amino-4,6-dinitrotoluene (ND)



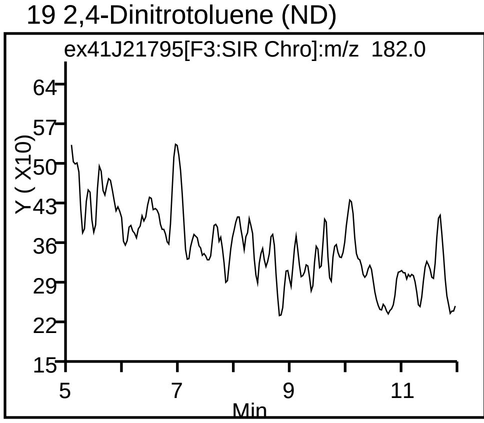
17 2,6-Dinitrotoluene (ND)



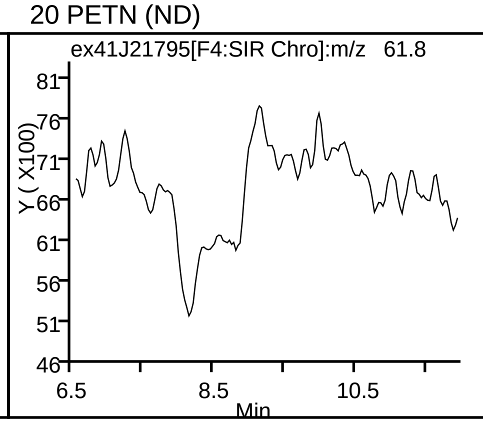
* 18 2,4-dinitrotoluene-d3



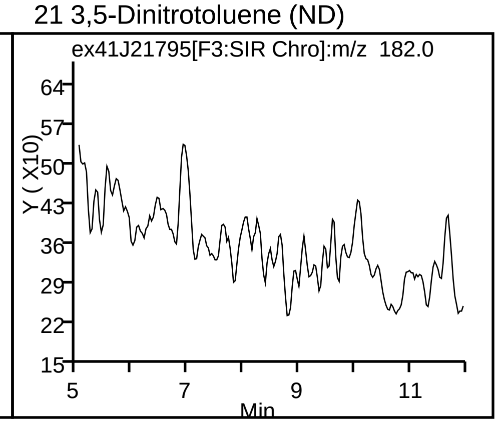
19 2,4-Dinitrotoluene (ND)



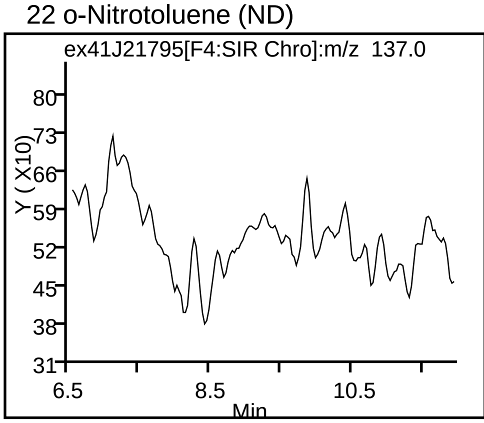
20 PETN (ND)



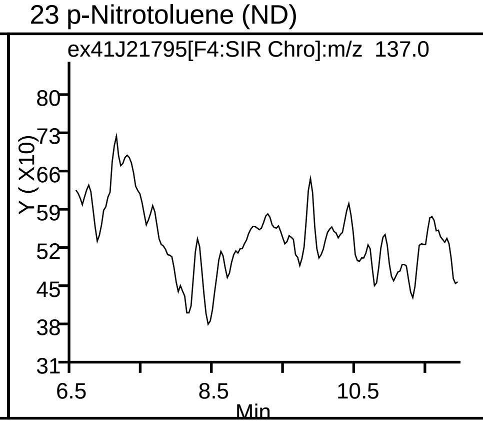
21 3,5-Dinitrotoluene (ND)



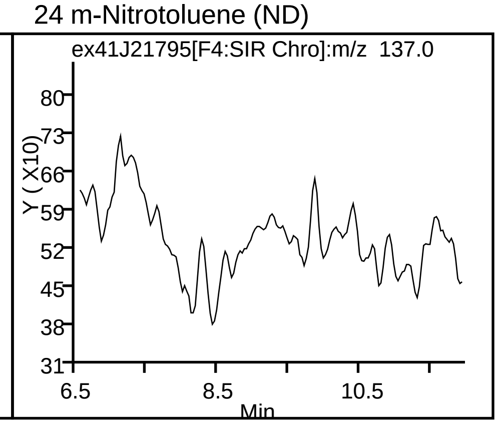
22 o-Nitrotoluene (ND)



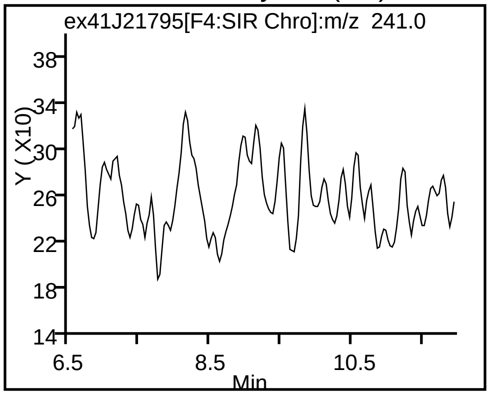
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP18 SB033 | Lab Sample ID: 280-21902-67

Matrix: Solid | Lab File ID: ex41J21796.d

Analysis Method: 8321B | Date Collected: 10/17/2011 13:36

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.93(g) | Date Analyzed: 11/03/2011 22:17

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac | ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.091	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.011	U	0.091	0.011	0.0065
118-96-7	2,4,6-Trinitrotoluene	0.011	U	0.091	0.011	0.0046
121-14-2	2,4-Dinitrotoluene	0.011	U	0.091	0.011	0.0075
606-20-2	2,6-Dinitrotoluene	0.023	U	0.091	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.091	0.023	0.011
88-72-2	2-Nitrotoluene	0.011	U	0.091	0.011	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.091	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.011	U	0.091	0.011	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.091	0.023	0.010
2691-41-0	HMX	0.011	U	0.091	0.011	0.0053
98-95-3	Nitrobenzene	0.011	U	0.091	0.011	0.0099
55-63-0	Nitroglycerin	0.011	U	0.091	0.011	0.0096
78-11-5	PETN	0.011	U	0.091	0.011	0.0047
121-82-4	RDX	0.011	U	0.091	0.011	0.0040
479-45-8	Tetryl	0.011	U	0.091	0.011	0.0069

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21796.d		
Lims ID:	280-21902-A-67-C	Client ID:	SB033
Inject. Date:	03-Nov-2011 22:17:41	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-67-C 280-0002711-047		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	15
Lims Batch ID:	94611	Lims Sample ID:	47
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:59	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		747810	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		1957978	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1663438	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	629078	76.5			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4930361	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										1
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.748							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										1
4	137.0		9.347							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

QC Flag Legend

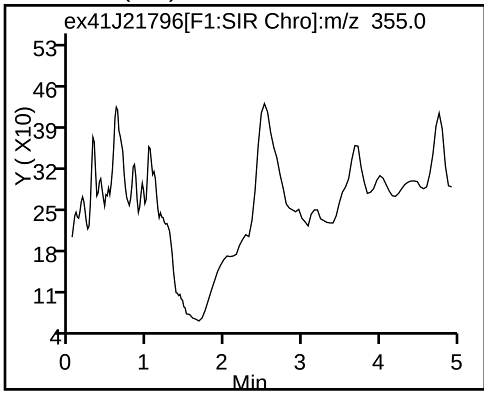
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:47:04 Chrom Revision: 1.2 13-Jul-2011 10:43:06

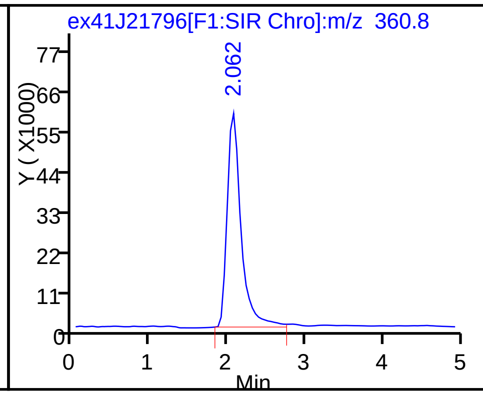
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21796.d

Injection Date:	03-Nov-2011 22:17:41	Limit Group:	LC - 8321A Expl
Client ID:	SB033	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	47
Operator ID:		Injection Vol:	40.00 ul

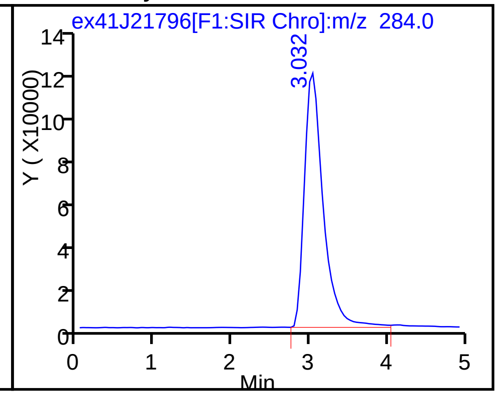
2 HMX (ND)



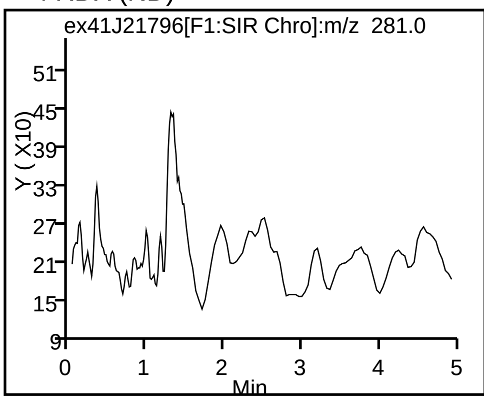
* 1 HMX-13C4



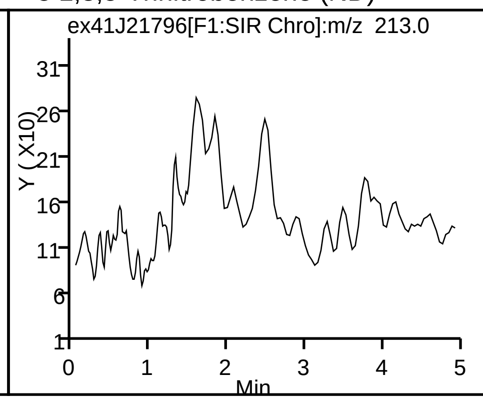
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



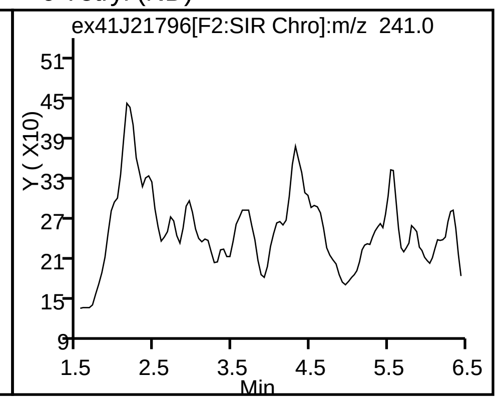
4 RDX (ND)



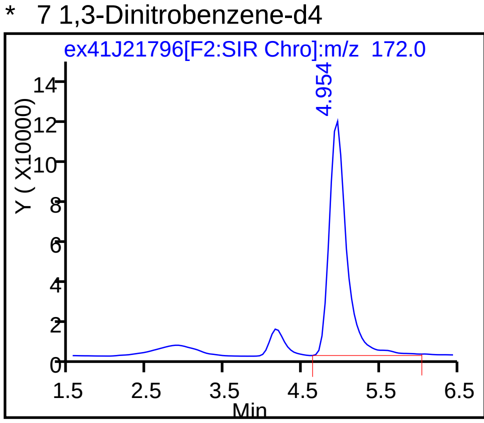
5 1,3,5-Trinitrobenzene (ND)



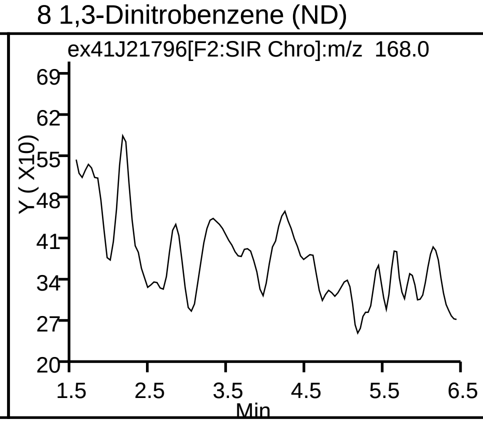
6 Tetryl (ND)



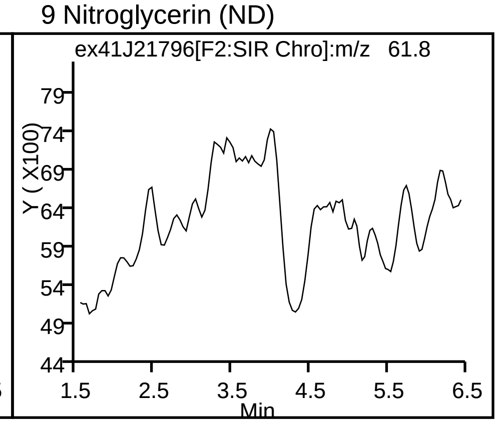
* 7 1,3-Dinitrobenzene-d4



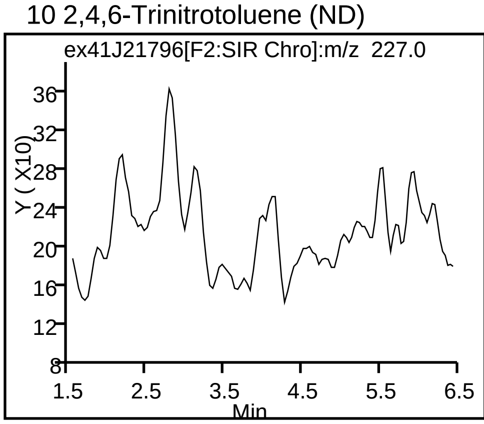
8 1,3-Dinitrobenzene (ND)



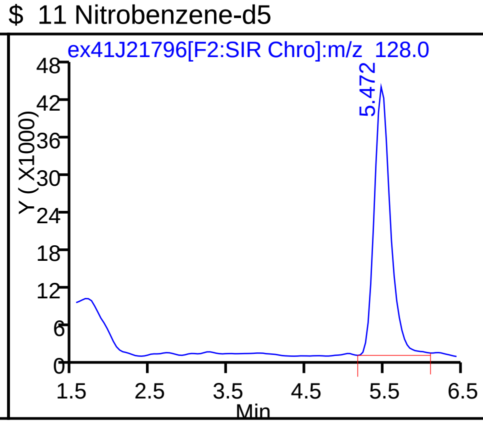
9 Nitroglycerin (ND)



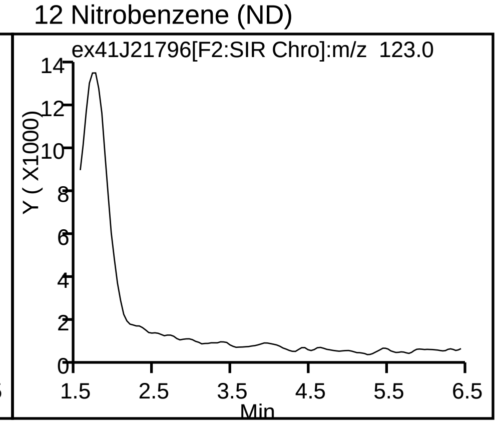
10 2,4,6-Trinitrotoluene (ND)



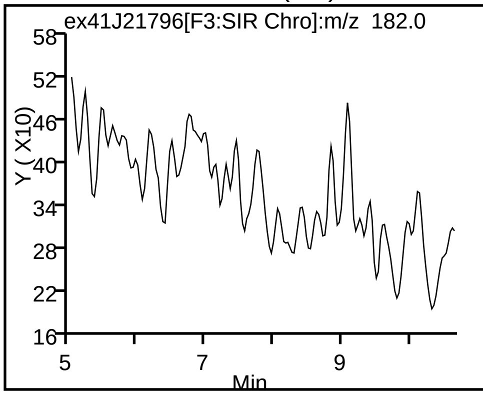
$ 11 Nitrobenzene-d5



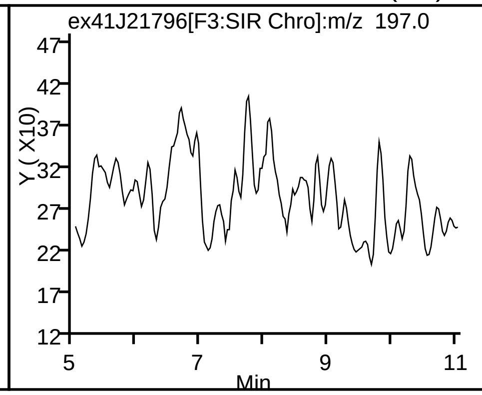
12 Nitrobenzene (ND)



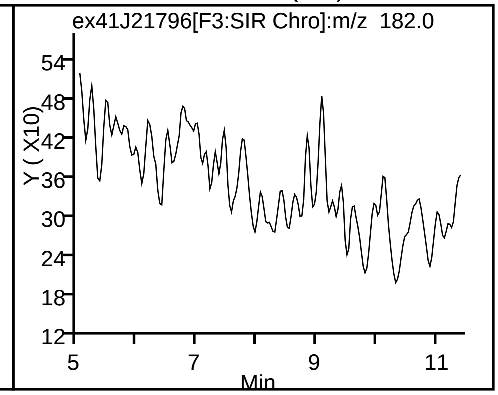
13 3,4-Dinitrotoluene (ND)



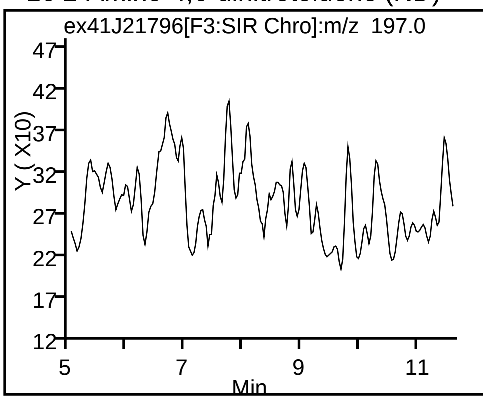
14 4-Amino-2,6-dinitrotoluene (ND)



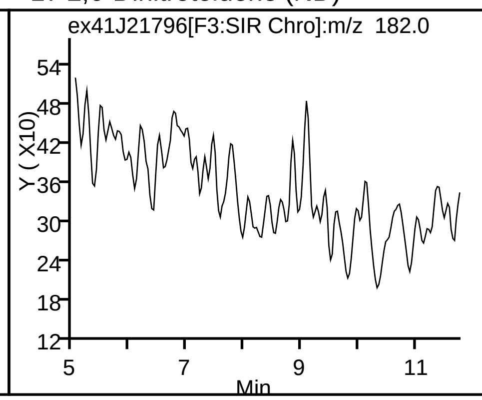
15 2,3-Dinitrotoluene (ND)



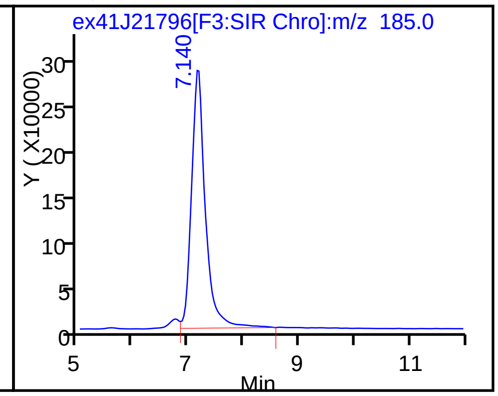
16 2-Amino-4,6-dinitrotoluene (ND)



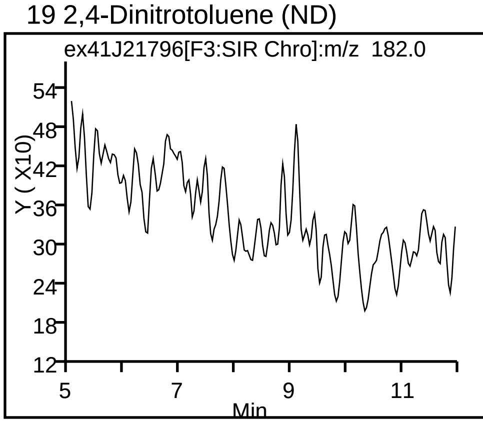
17 2,6-Dinitrotoluene (ND)



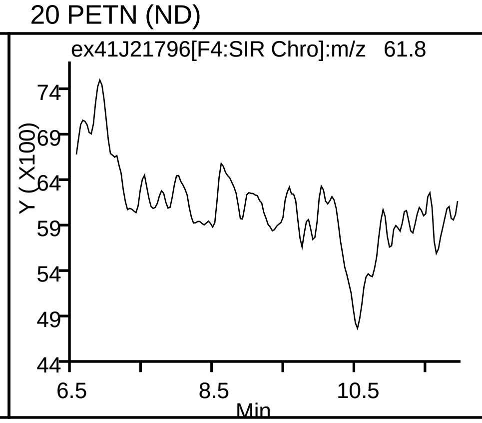
* 18 2,4-dinitrotoluene-d3



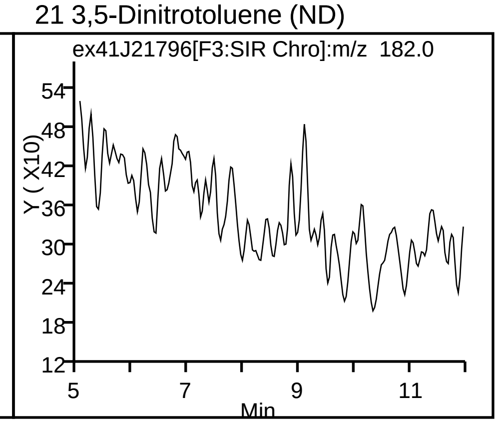
19 2,4-Dinitrotoluene (ND)



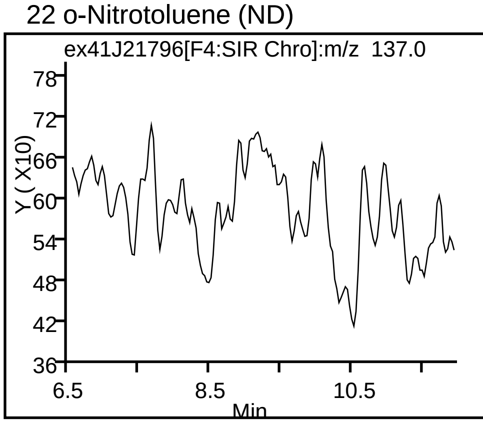
20 PETN (ND)



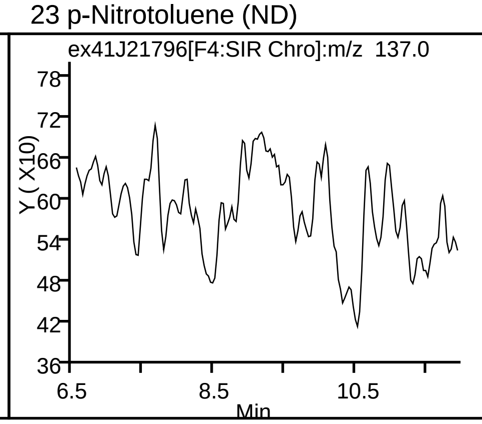
21 3,5-Dinitrotoluene (ND)



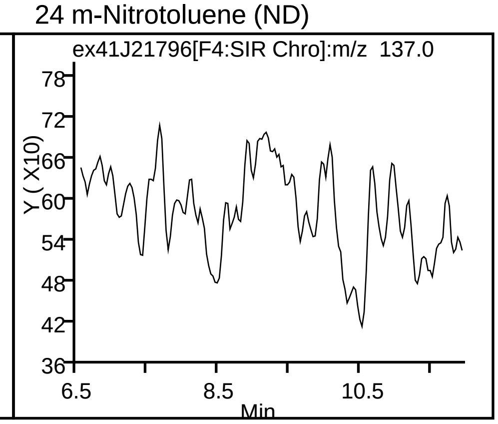
22 o-Nitrotoluene (ND)



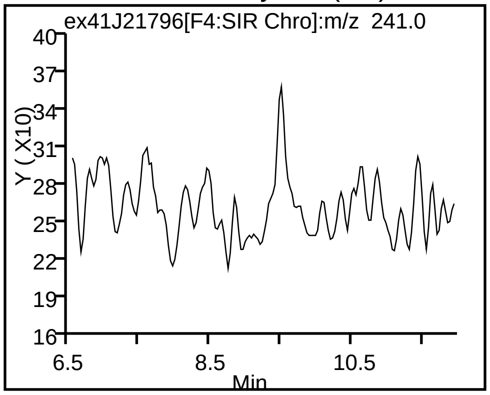
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP15 SB025 Lab Sample ID: 280-21902-68

Matrix: Solid Lab File ID: ex41J21798.d

Analysis Method: 8321B Date Collected: 10/17/2011 13:55

Extraction Method: 8330B Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.68(g) Date Analyzed: 11/03/2011 22:44

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.094	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.023	U	0.094	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.094	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.023	U	0.094	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.094	0.023	0.010
2691-41-0	HMX	0.012	U	0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.094	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.094	0.012	0.0098
78-11-5	PETN	0.012	U	0.094	0.012	0.0048
121-82-4	RDX	0.012	U	0.094	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.094	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21798.d		
Lims ID:	280-21902-A-68-C	Client ID:	SB025
Inject. Date:	03-Nov-2011 22:44:48	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-68-C 280-0002711-049		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	16
Lims Batch ID:	94611	Lims Sample ID:	49
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:47:05	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		696552	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2416539	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1497833	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	604553	81.7			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4235800	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.197							

QC Flag Legend

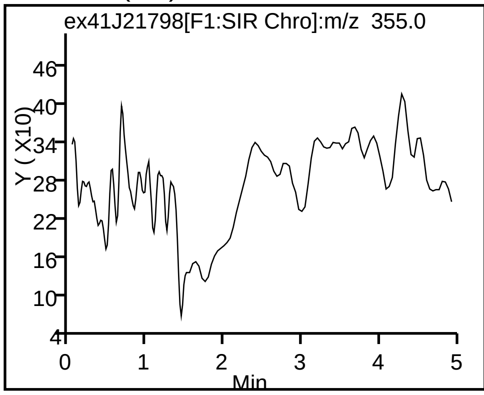
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:47:07 Chrom Revision: 1.2 13-Jul-2011 10:43:06

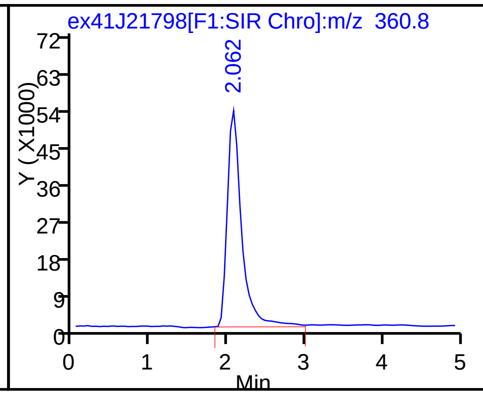
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21798.d

Injection Date:	03-Nov-2011 22:44:48	Limit Group:	LC - 8321A Expl
Client ID:	SB025	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	49
Operator ID:		Injection Vol:	40.00 ul

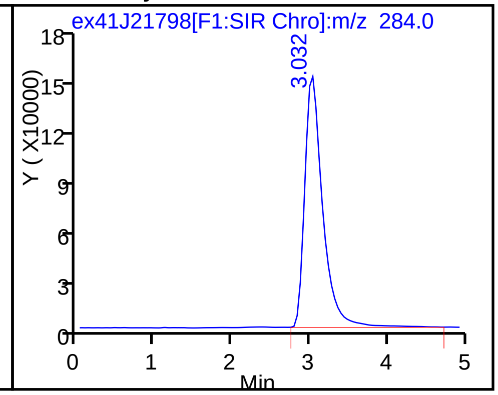
2 HMX (ND)



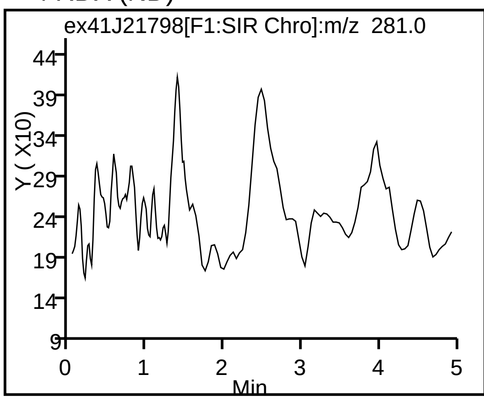
* 1 HMX-13C4



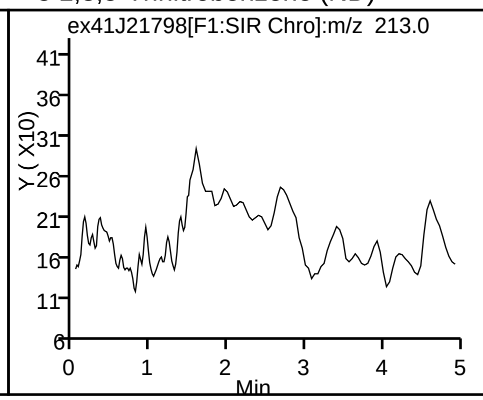
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



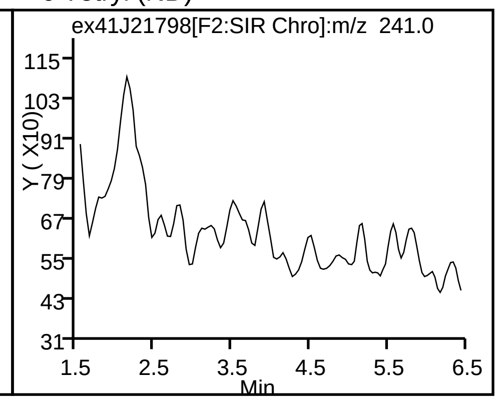
4 RDX (ND)



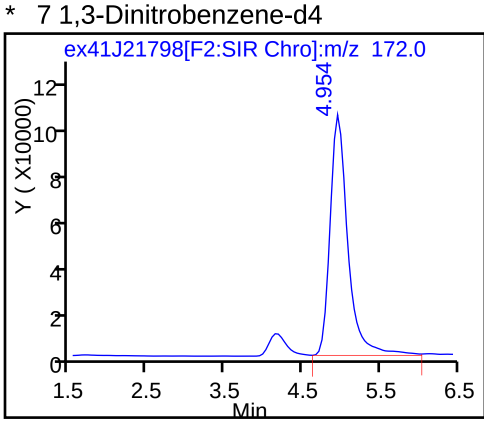
5 1,3,5-Trinitrobenzene (ND)



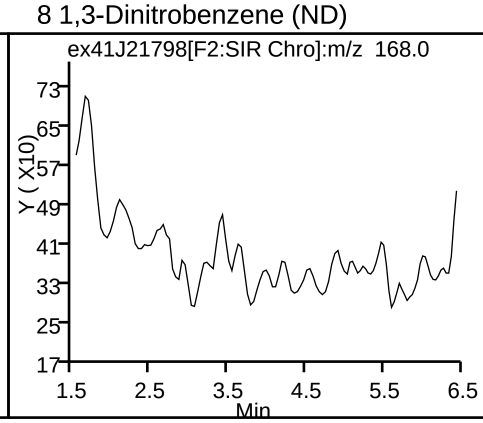
6 Tetryl (ND)



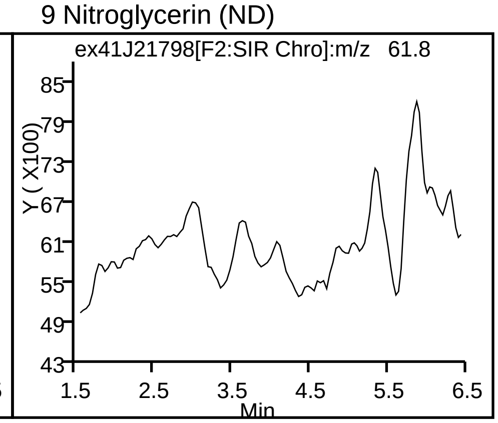
* 7 1,3-Dinitrobenzene-d4



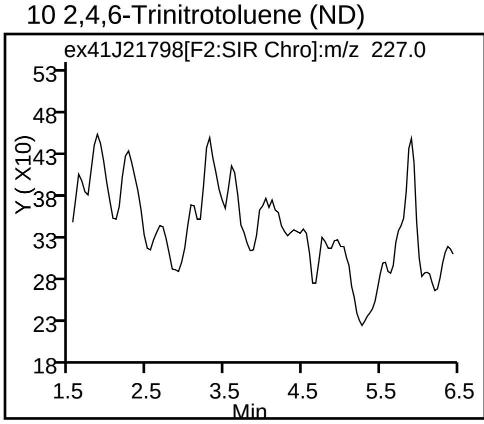
8 1,3-Dinitrobenzene (ND)



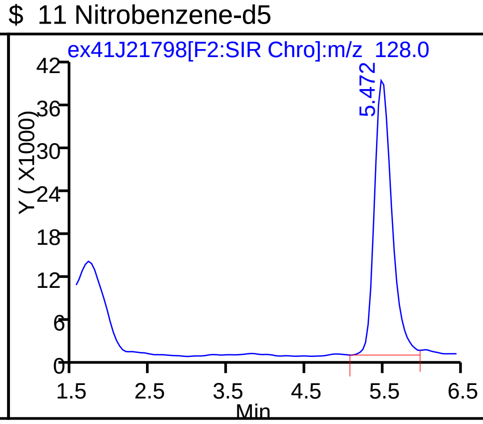
9 Nitroglycerin (ND)



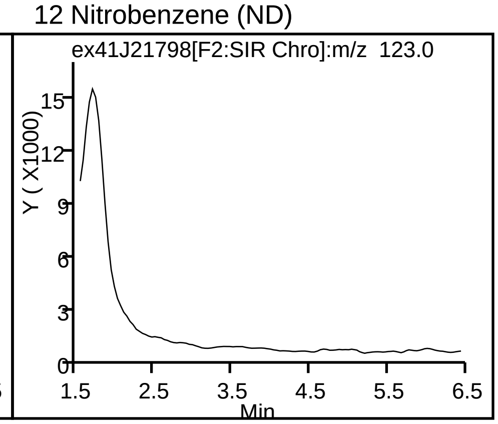
10 2,4,6-Trinitrotoluene (ND)



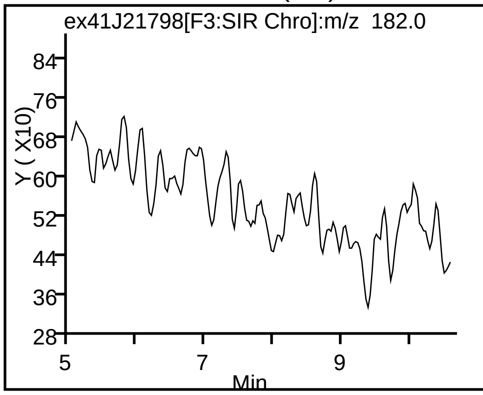
$ 11 Nitrobenzene-d5



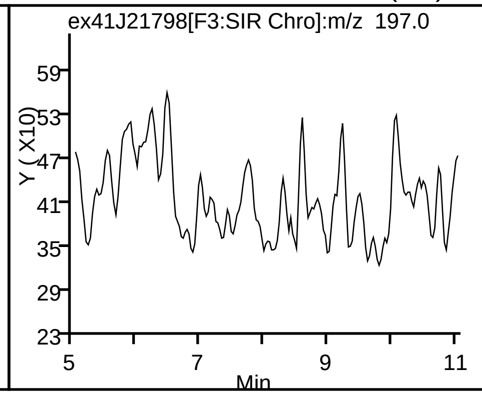
12 Nitrobenzene (ND)



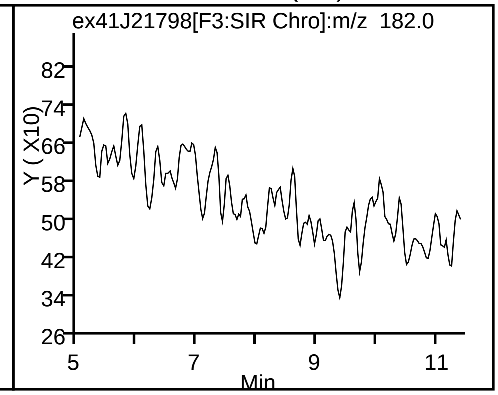
13 3,4-Dinitrotoluene (ND)



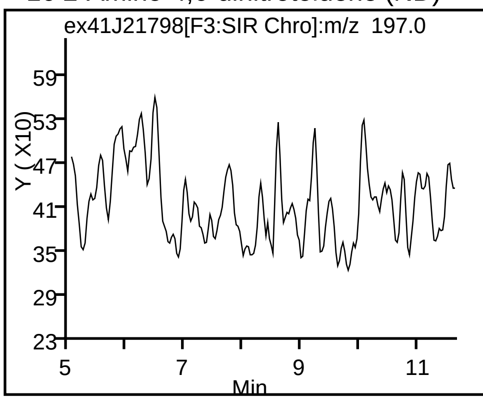
14 4-Amino-2,6-dinitrotoluene (ND)



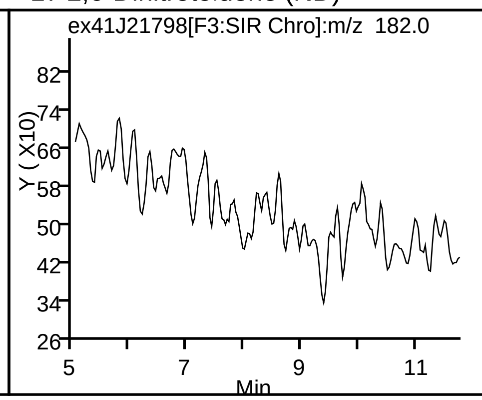
15 2,3-Dinitrotoluene (ND)



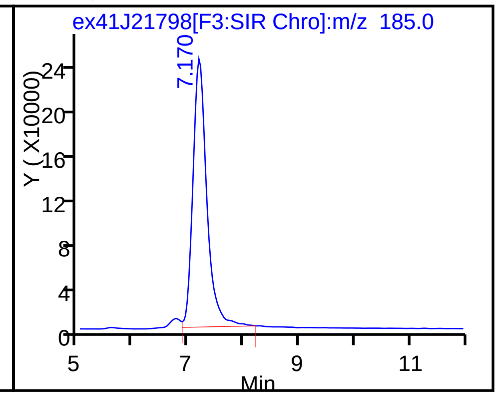
16 2-Amino-4,6-dinitrotoluene (ND)



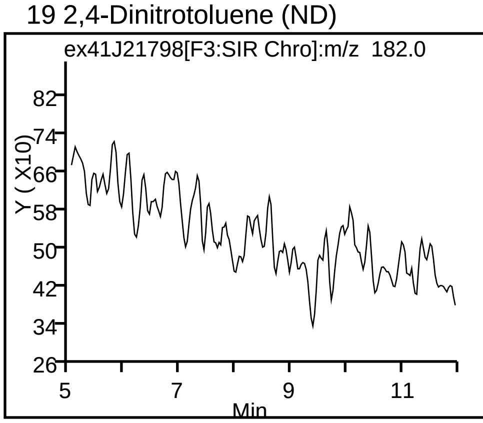
17 2,6-Dinitrotoluene (ND)



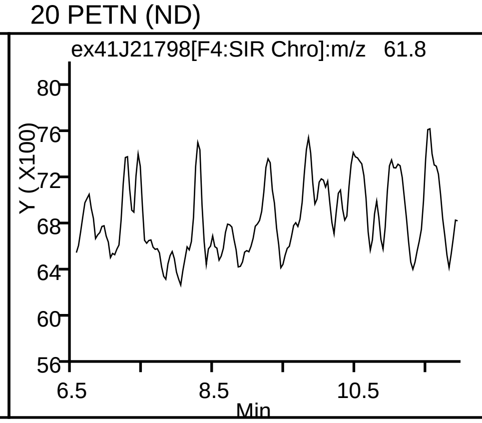
* 18 2,4-dinitrotoluene-d3



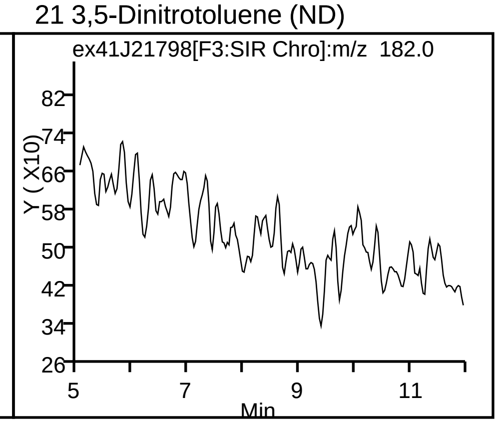
19 2,4-Dinitrotoluene (ND)



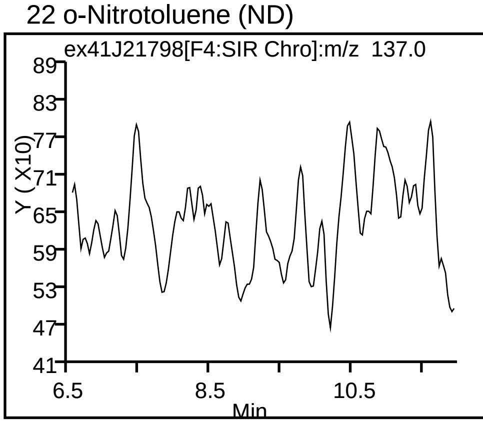
20 PETN (ND)



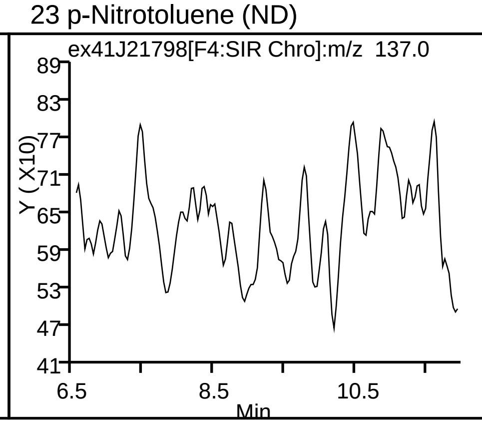
21 3,5-Dinitrotoluene (ND)



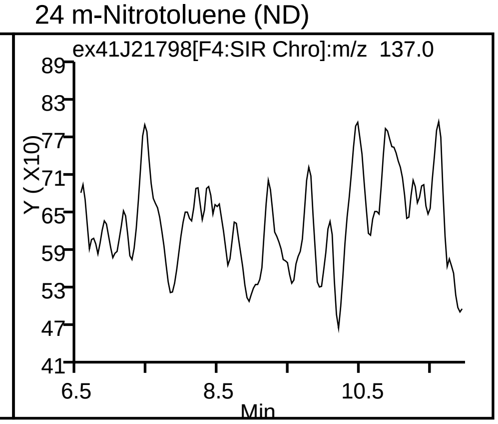
22 o-Nitrotoluene (ND)



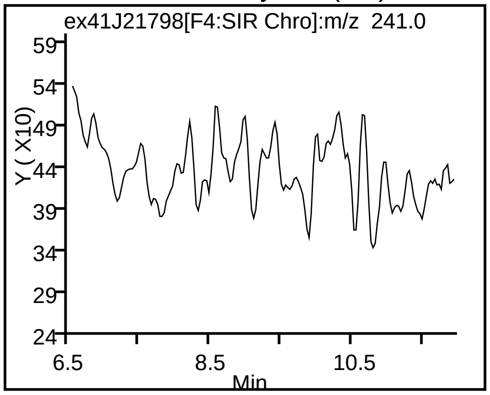
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP15 SB026 | Lab Sample ID: 280-21902-69

Matrix: Solid | Lab File ID: ex41J21799.d

Analysis Method: 8321B | Date Collected: 10/17/2011 13:57

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.67(g) | Date Analyzed: 11/03/2011 22:58

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.094	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.023	U	0.094	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.094	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.023	U	0.094	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.094	0.023	0.010
2691-41-0	HMX	0.012	U	0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.094	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.094	0.012	0.0098
78-11-5	PETN	0.012	U	0.094	0.012	0.0048
121-82-4	RDX	0.012	U	0.094	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.094	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21799.d		
Lims ID:	280-21902-A-69-C	Client ID:	SB026
Inject. Date:	03-Nov-2011 22:58:22	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-69-C 280-0002711-050		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	17
Lims Batch ID:	94611	Lims Sample ID:	50
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:47:05	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		660852	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2112569	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1417480	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	554546	79.2			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4665983	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.197							

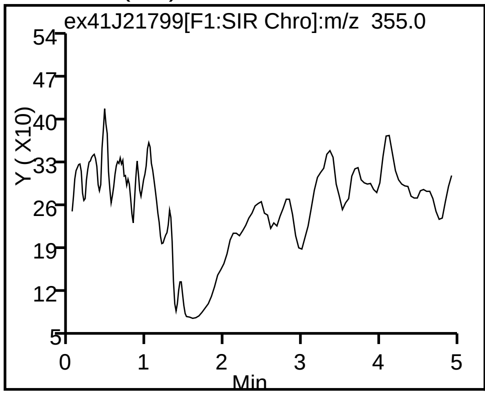
QC Flag Legend

Processing Flags
1 - Missing Peaks

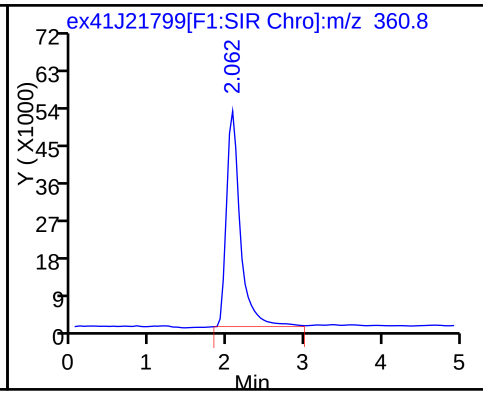
Report Date: 04-Nov-2011 06:47:08 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21799.d

Injection Date:	03-Nov-2011 22:58:22	Limit Group:	LC - 8321A Expl
Client ID:	SB026	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	50
Operator ID:		Injection Vol:	40.00 ul

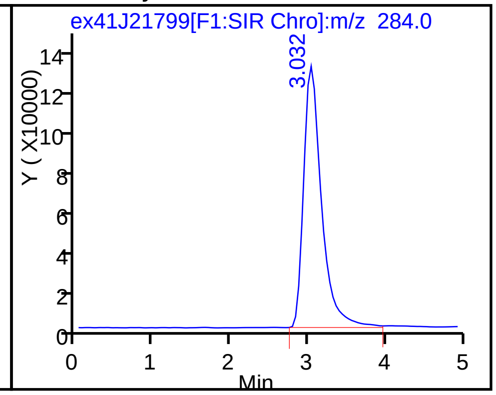
2 HMX (ND)



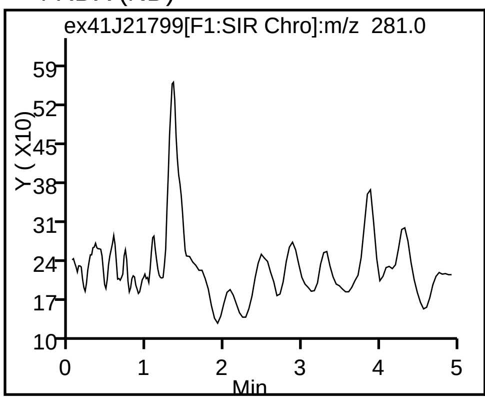
* 1 HMX-13C4



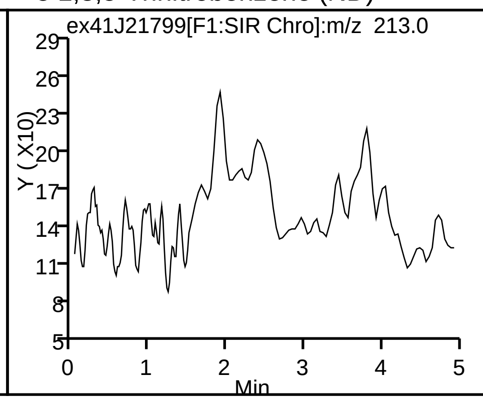
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



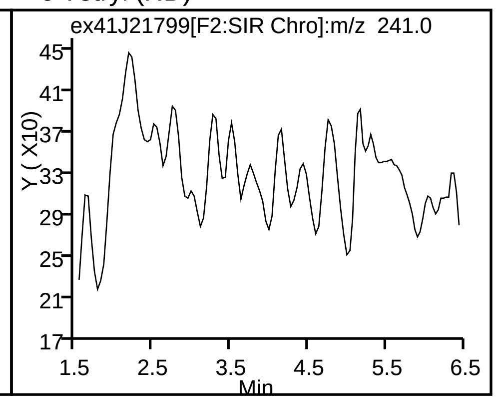
4 RDX (ND)



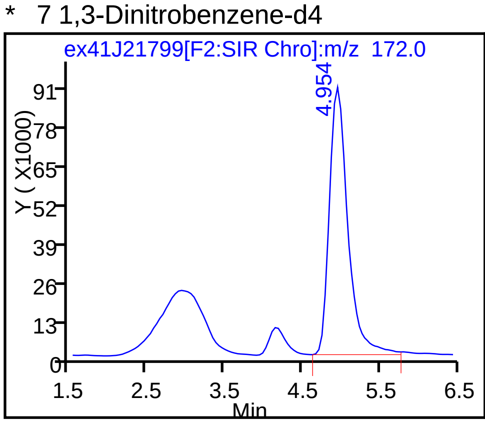
5 1,3,5-Trinitrobenzene (ND)



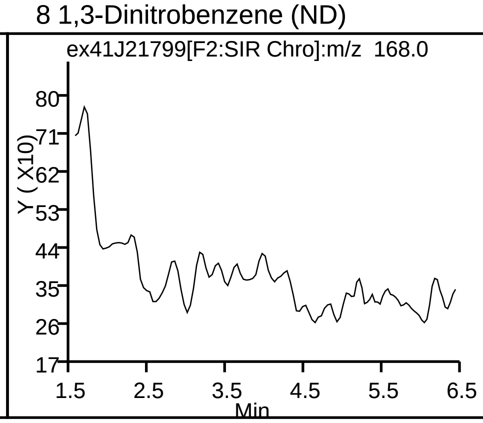
6 Tetryl (ND)



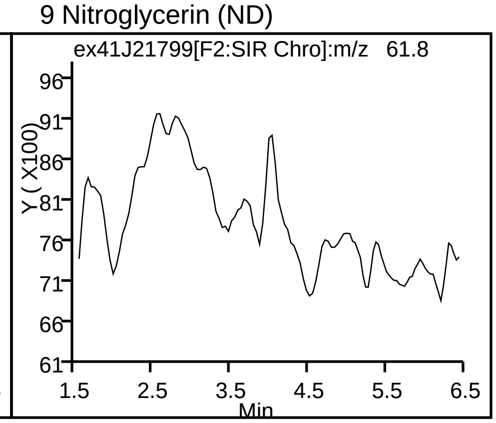
* 7 1,3-Dinitrobenzene-d4



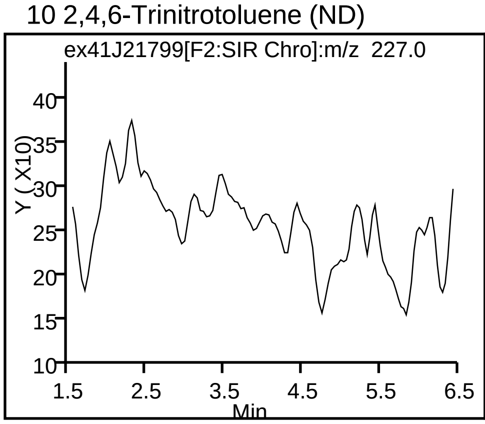
8 1,3-Dinitrobenzene (ND)



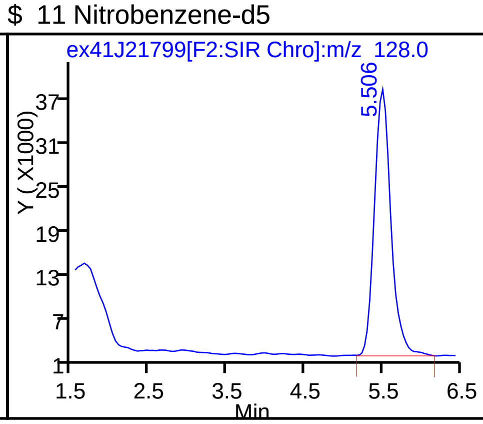
9 Nitroglycerin (ND)



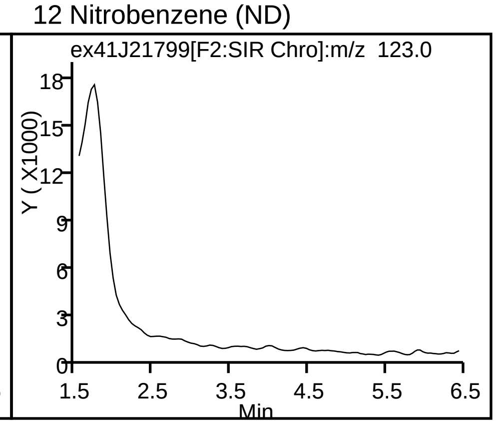
10 2,4,6-Trinitrotoluene (ND)



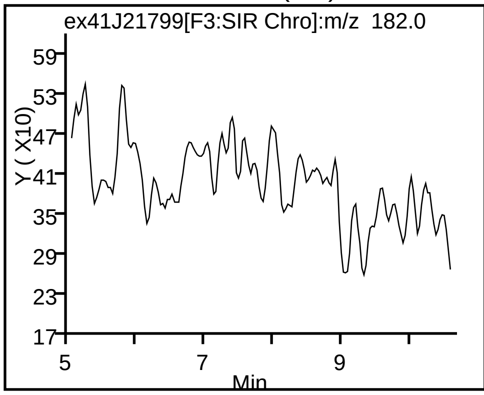
$ 11 Nitrobenzene-d5



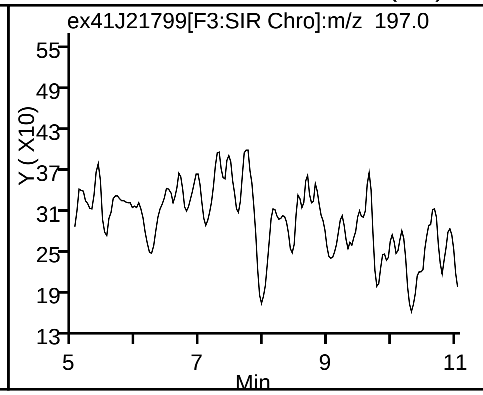
12 Nitrobenzene (ND)



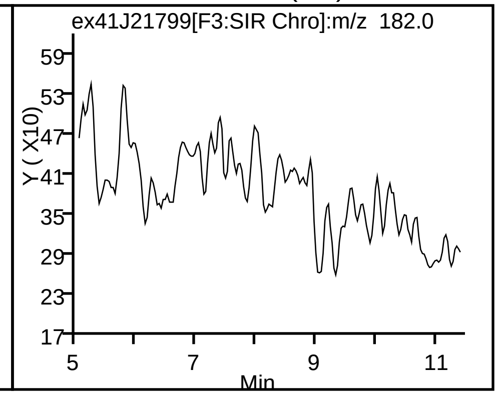
13 3,4-Dinitrotoluene (ND)



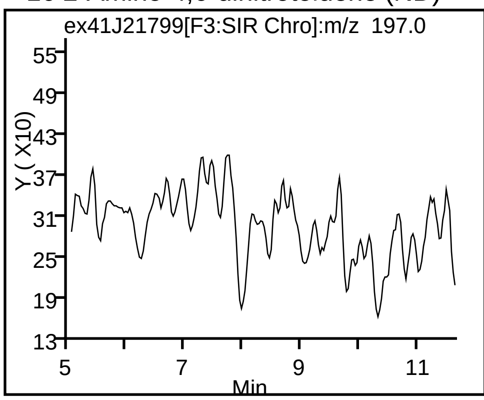
14 4-Amino-2,6-dinitrotoluene (ND)



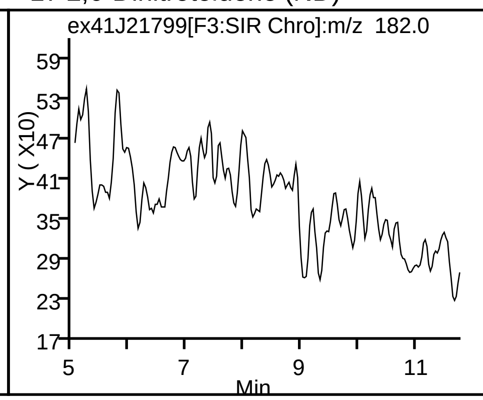
15 2,3-Dinitrotoluene (ND)



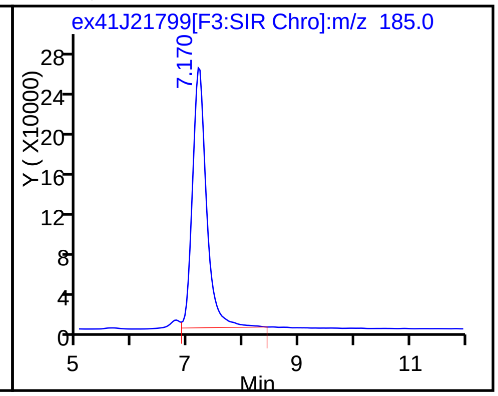
16 2-Amino-4,6-dinitrotoluene (ND)



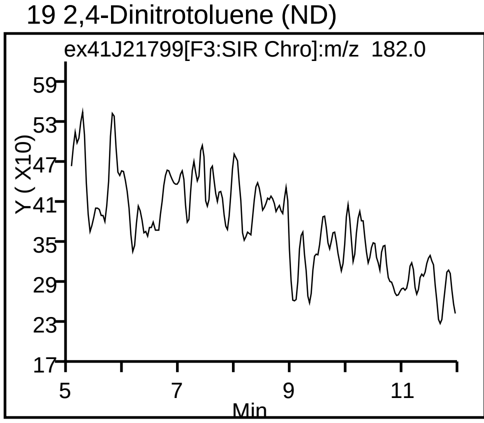
17 2,6-Dinitrotoluene (ND)



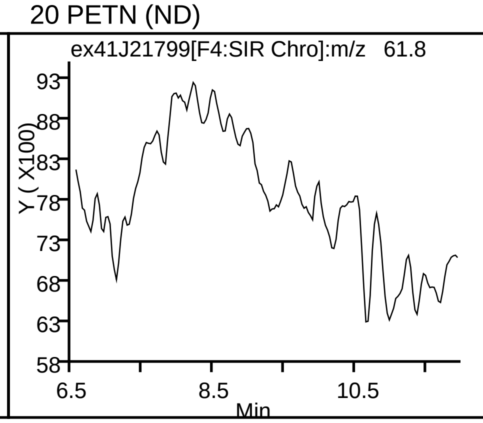
* 18 2,4-dinitrotoluene-d3



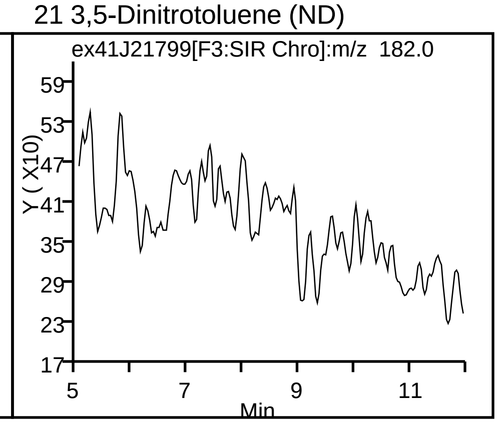
19 2,4-Dinitrotoluene (ND)



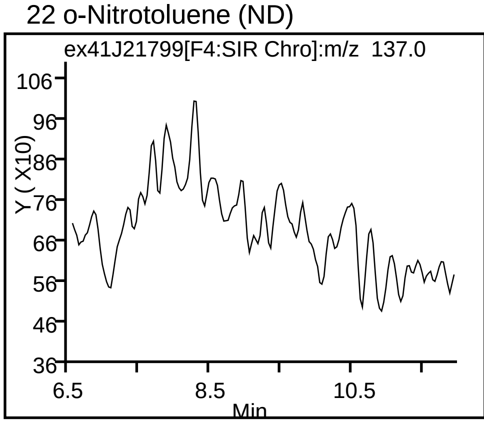
20 PETN (ND)



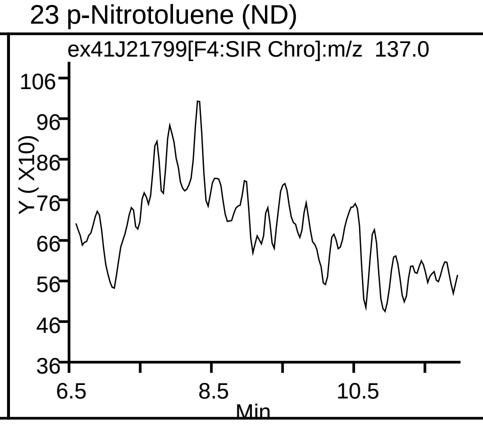
21 3,5-Dinitrotoluene (ND)



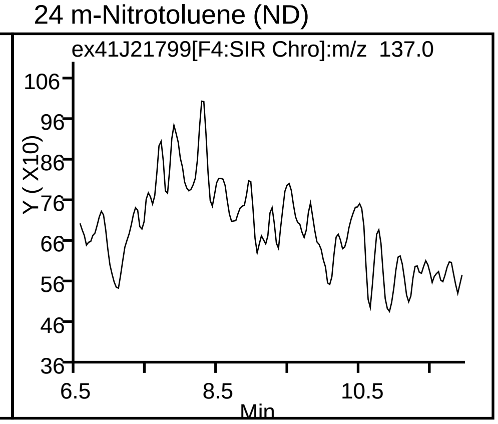
22 o-Nitrotoluene (ND)



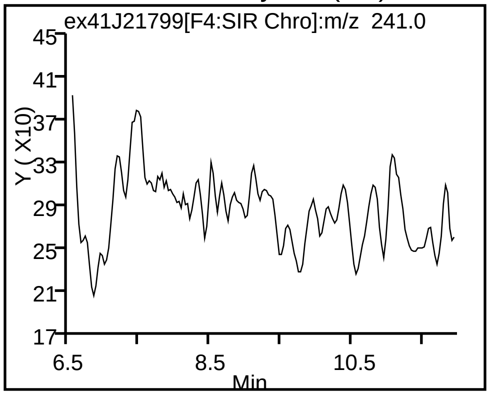
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP16 SB027 Lab Sample ID: 280-21902-70

Matrix: Solid Lab File ID: ex41J21800.d

Analysis Method: 8321B Date Collected: 10/17/2011 14:20

Extraction Method: 8330B Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.34(g) Date Analyzed: 11/03/2011 23:11

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21800.d		
Lims ID:	280-21902-B-70-B	Client ID:	SB027
Inject. Date:	03-Nov-2011 23:11:57	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-70-B 280-0002711-051		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	18
Lims Batch ID:	94611	Lims Sample ID:	51
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:47:05	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:39:09

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		719667	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2217121	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1487983	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	580518	79.0			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

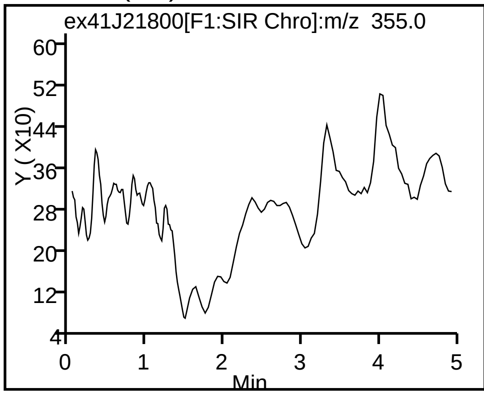
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4589885	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.197							

QC Flag Legend

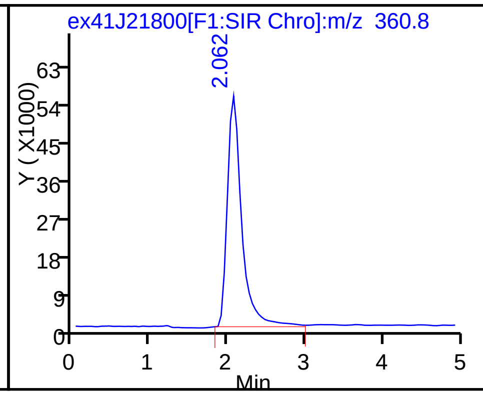
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:47:08		Chrom Revision: 1.2 13-Jul-2011 10:43:06	
Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21800.d		
Injection Date:	03-Nov-2011 23:11:57	Limit Group:	LC - 8321A Expl
Client ID:	SB027	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	51
Operator ID:		Injection Vol:	40.00 ul

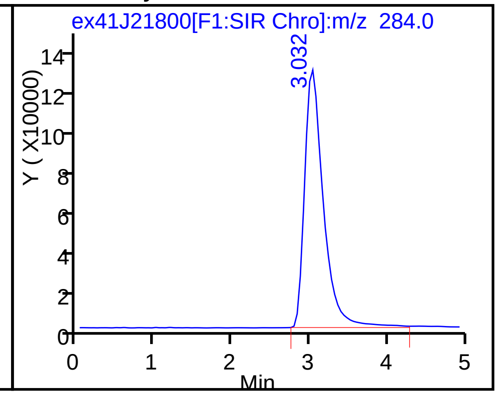
2 HMX (ND)



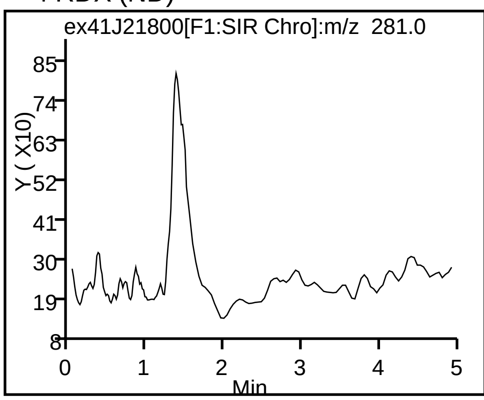
* 1 HMX-13C4



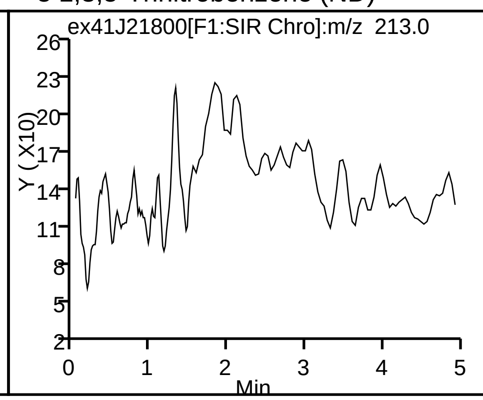
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



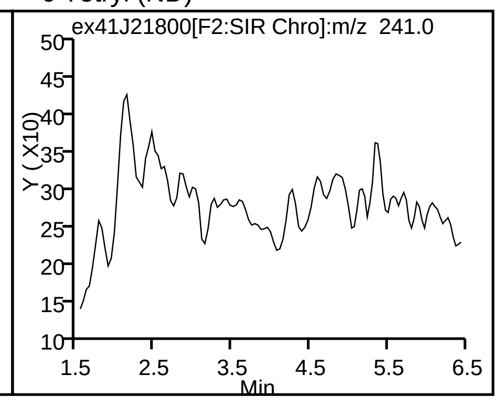
4 RDX (ND)



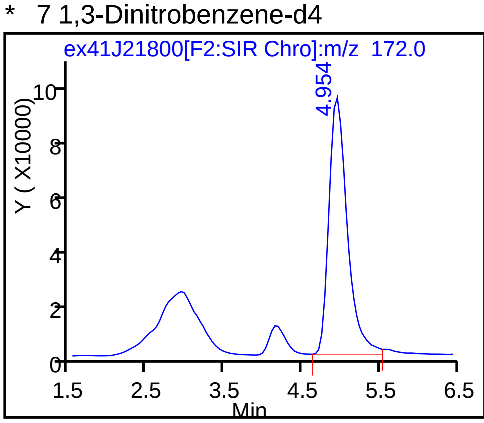
5 1,3,5-Trinitrobenzene (ND)



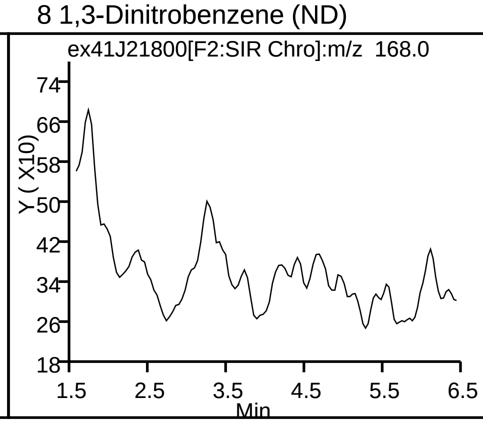
6 Tetryl (ND)



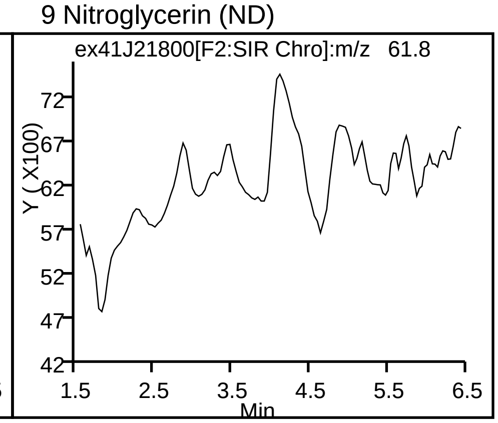
* 7 1,3-Dinitrobenzene-d4



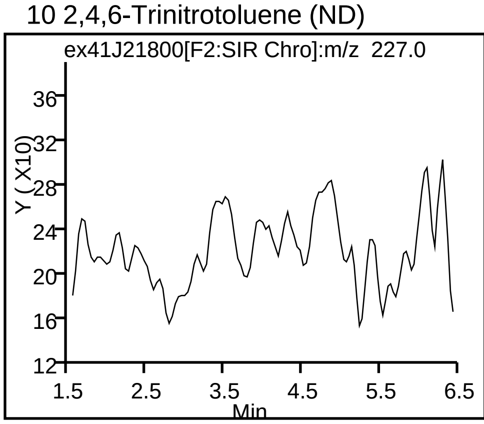
8 1,3-Dinitrobenzene (ND)



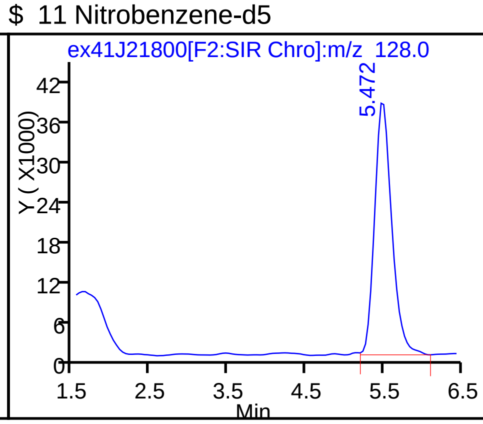
9 Nitroglycerin (ND)



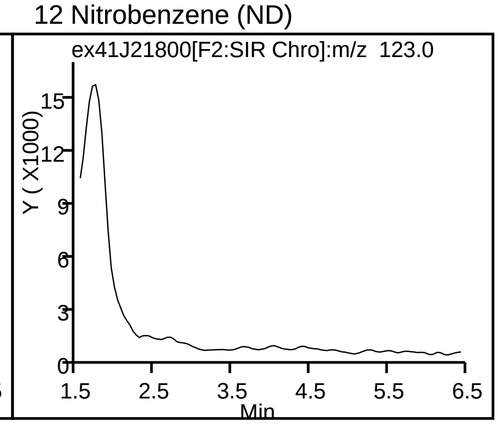
10 2,4,6-Trinitrotoluene (ND)



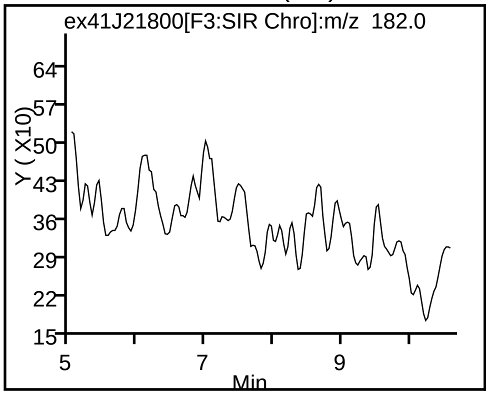
$ 11 Nitrobenzene-d5



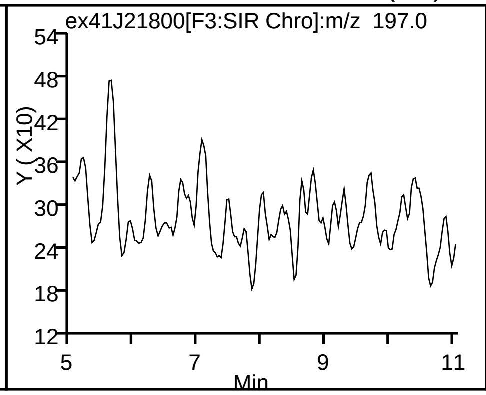
12 Nitrobenzene (ND)



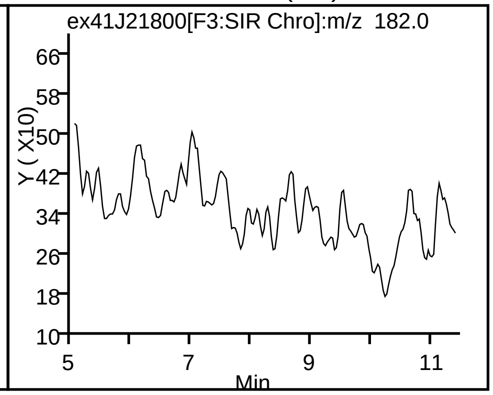
13 3,4-Dinitrotoluene (ND)



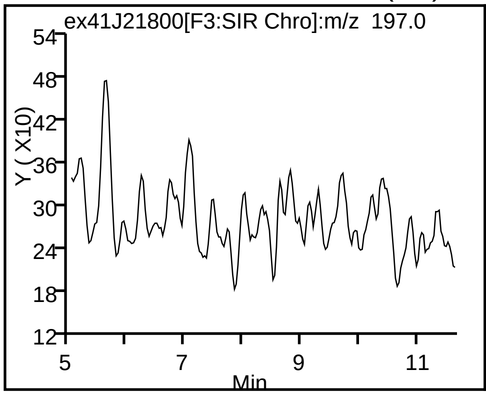
14 4-Amino-2,6-dinitrotoluene (ND)



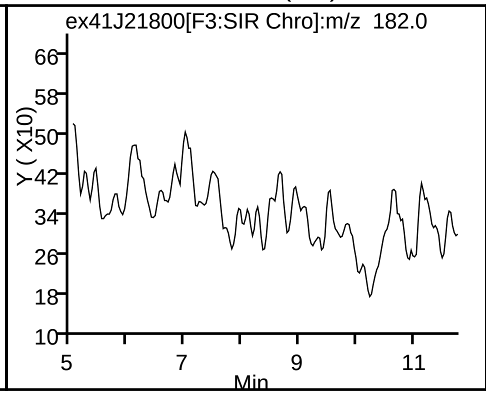
15 2,3-Dinitrotoluene (ND)



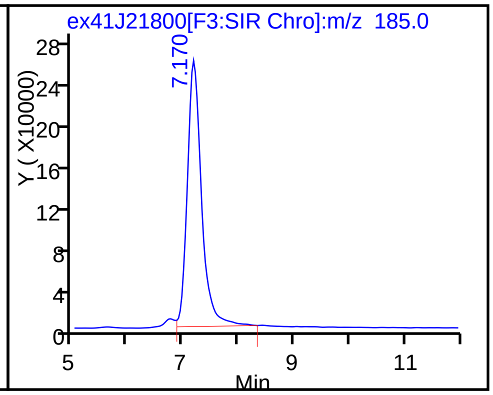
16 2-Amino-4,6-dinitrotoluene (ND)



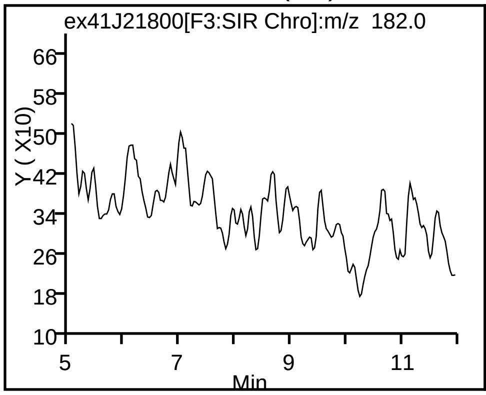
17 2,6-Dinitrotoluene (ND)



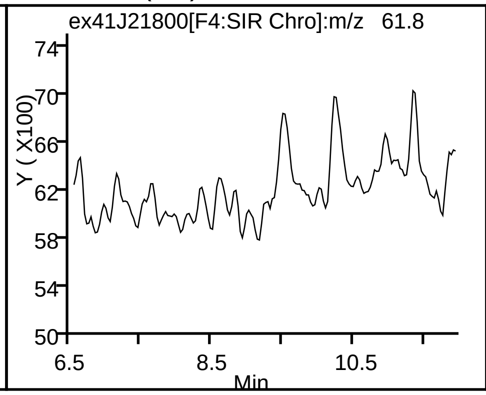
* 18 2,4-dinitrotoluene-d3



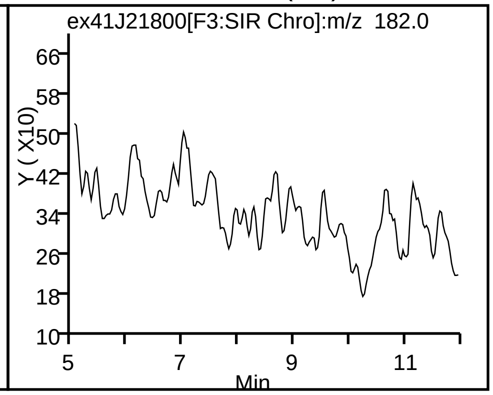
19 2,4-Dinitrotoluene (ND)



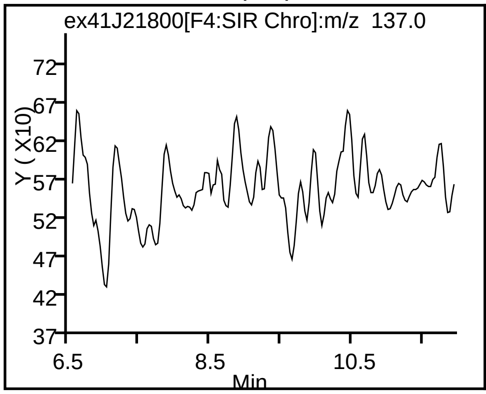
20 PETN (ND)



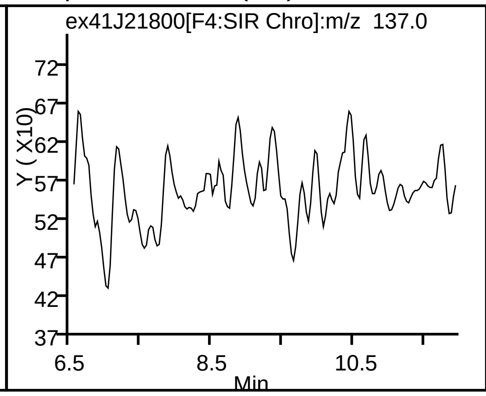
21 3,5-Dinitrotoluene (ND)



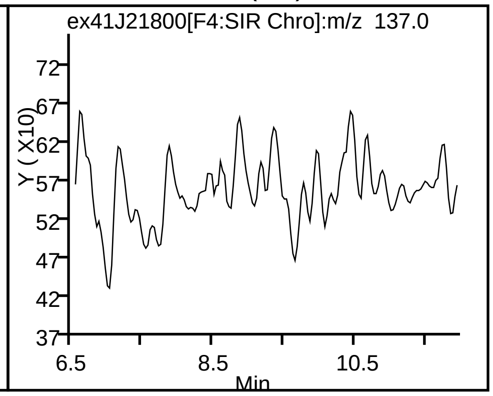
22 o-Nitrotoluene (ND)



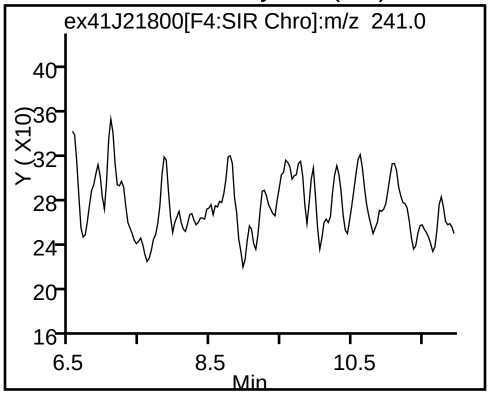
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP16 SB028 | Lab Sample ID: 280-21902-71

Matrix: Solid | Lab File ID: ex41J21801.d

Analysis Method: 8321B | Date Collected: 10/17/2011 14:40

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.81(g) | Date Analyzed: 11/03/2011 23:25

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.093	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0097
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	79		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21801.d		
Lims ID:	280-21902-B-71-B	Client ID:	SB028
Inject. Date:	03-Nov-2011 23:25:31	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-71-B 280-0002711-052		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	19
Lims Batch ID:	94611	Lims Sample ID:	52
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:47:05	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 04-Nov-2011 06:39:18

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		772242	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2331940	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1551036	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	597752	78.0			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

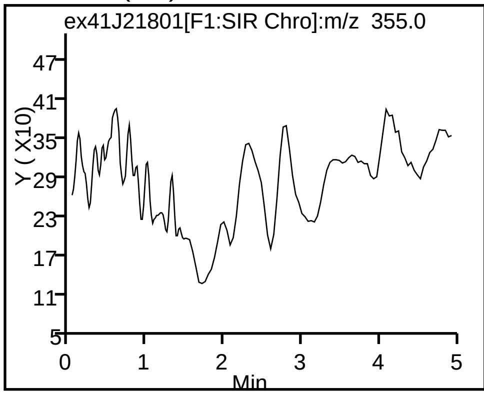
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4478969	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.197							

QC Flag Legend

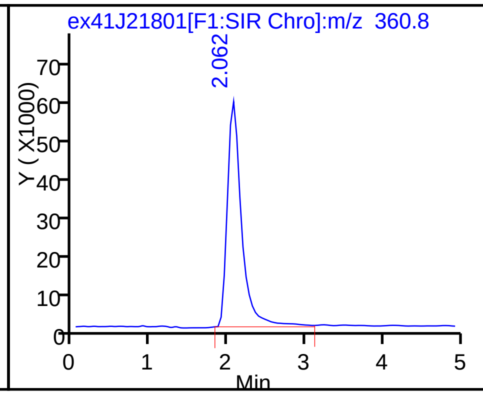
Processing Flags
1 - Missing Peaks

Report Date:	04-Nov-2011 06:47:09	Chrom Revision:	1.2 13-Jul-2011 10:43:06
Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21801.d		
Injection Date:	03-Nov-2011 23:25:31	Limit Group:	LC - 8321A Expl
Client ID:	SB028	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	52
Operator ID:		Injection Vol:	40.00 ul

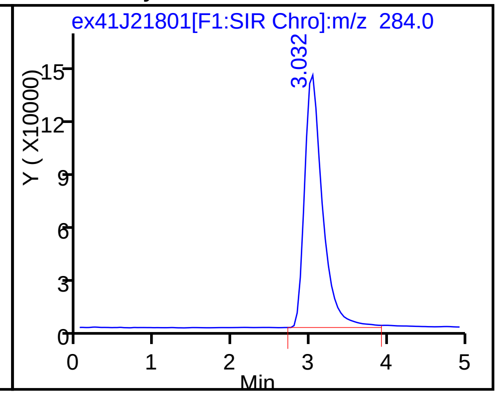
2 HMX (ND)



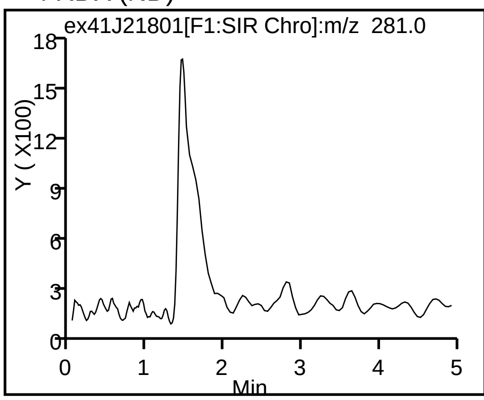
* 1 HMX-13C4



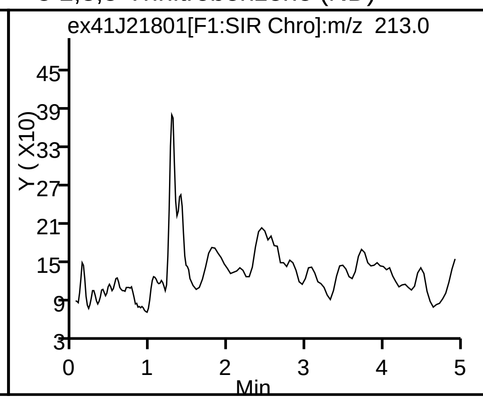
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



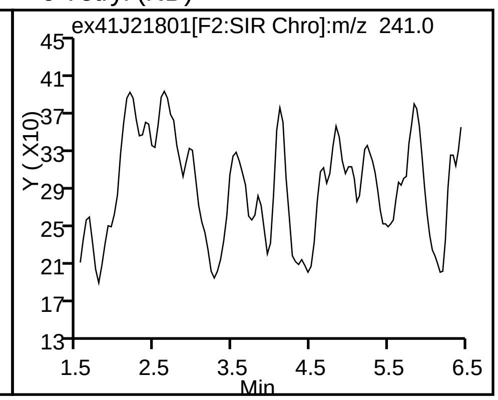
4 RDX (ND)



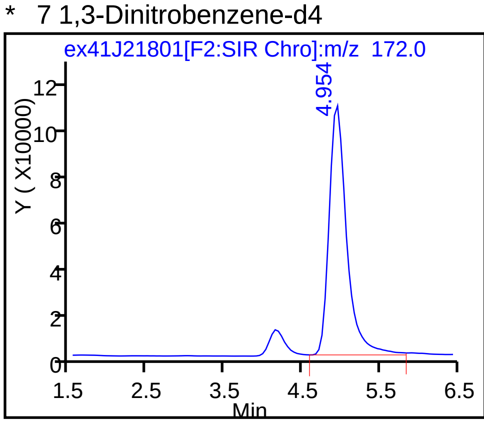
5 1,3,5-Trinitrobenzene (ND)



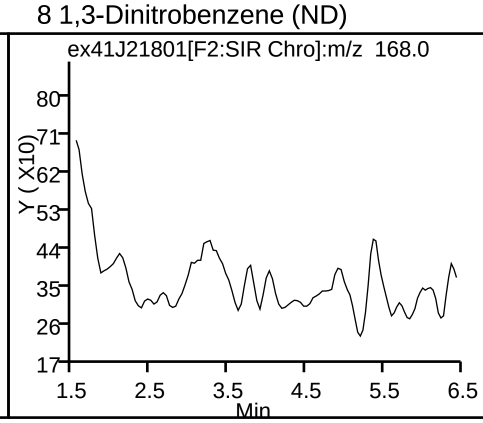
6 Tetryl (ND)



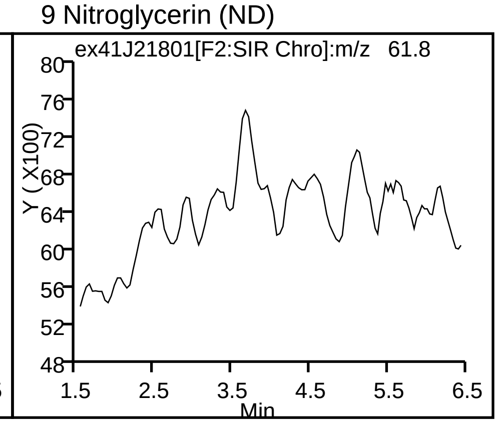
* 7 1,3-Dinitrobenzene-d4



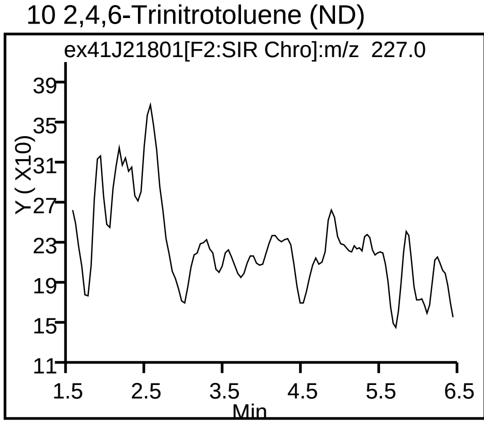
8 1,3-Dinitrobenzene (ND)



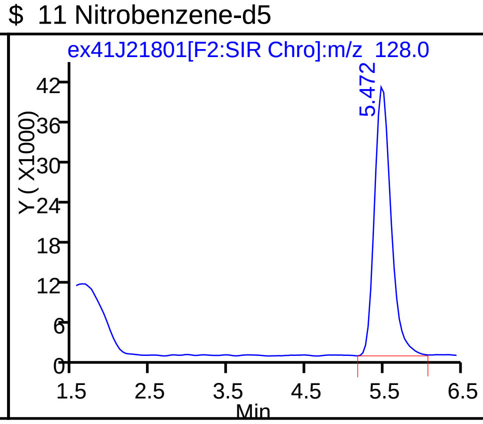
9 Nitroglycerin (ND)



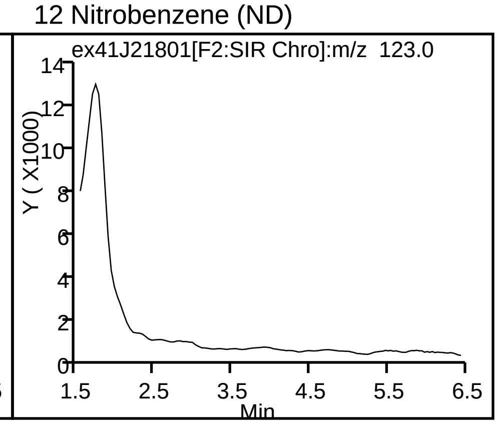
10 2,4,6-Trinitrotoluene (ND)



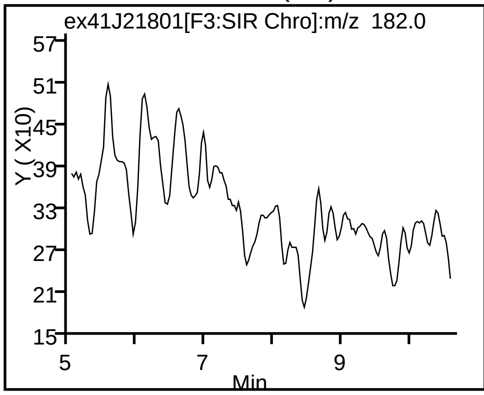
$ 11 Nitrobenzene-d5



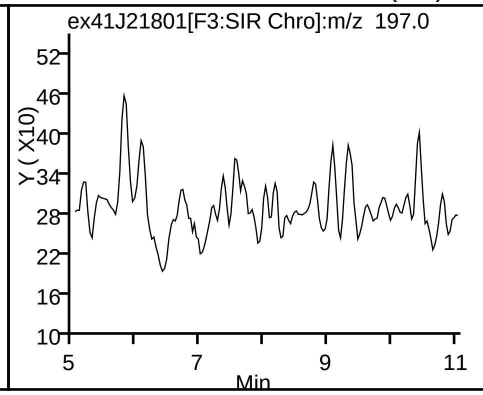
12 Nitrobenzene (ND)



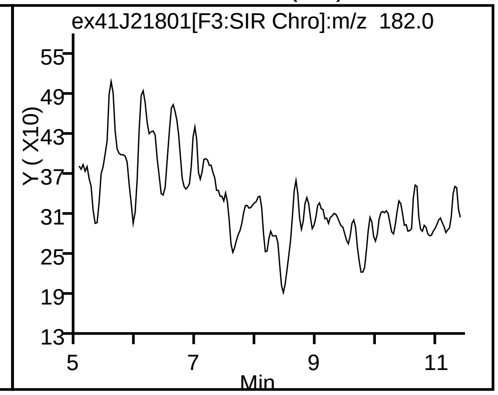
13 3,4-Dinitrotoluene (ND)



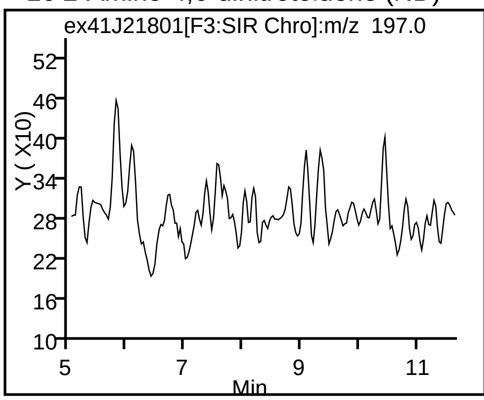
14 4-Amino-2,6-dinitrotoluene (ND)



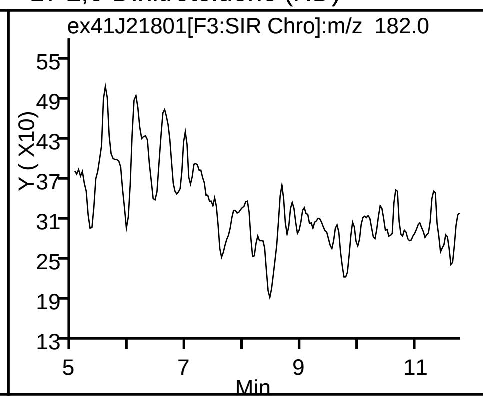
15 2,3-Dinitrotoluene (ND)



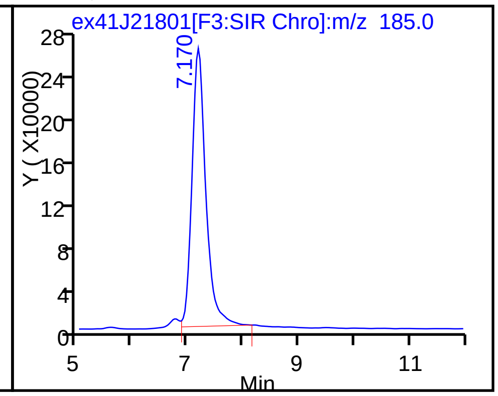
16 2-Amino-4,6-dinitrotoluene (ND)



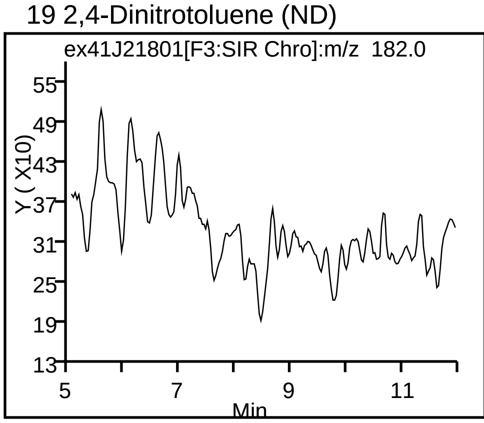
17 2,6-Dinitrotoluene (ND)



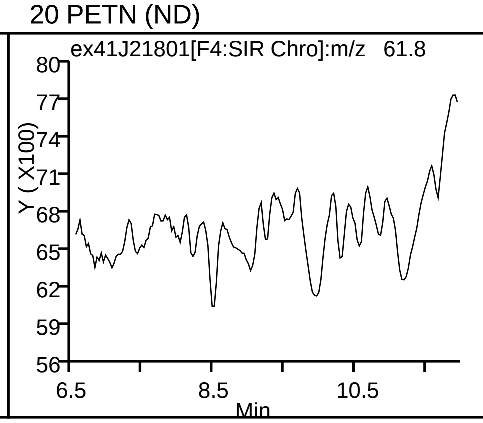
* 18 2,4-dinitrotoluene-d3



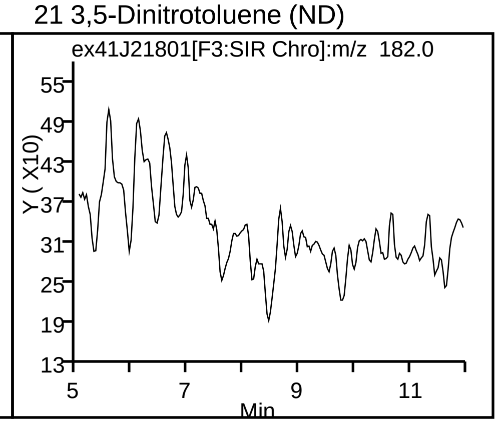
19 2,4-Dinitrotoluene (ND)



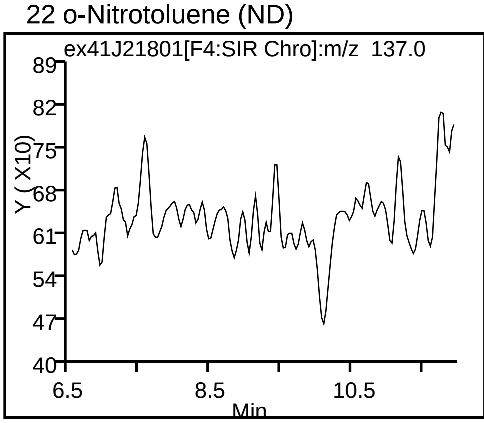
20 PETN (ND)



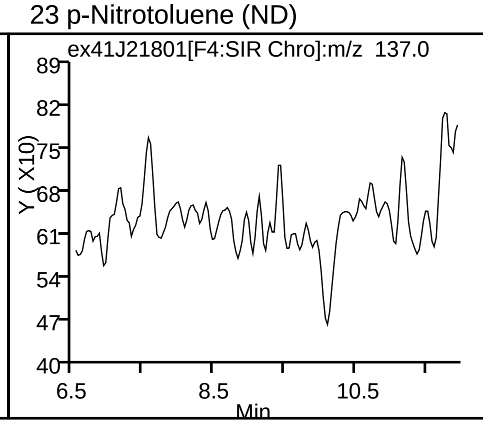
21 3,5-Dinitrotoluene (ND)



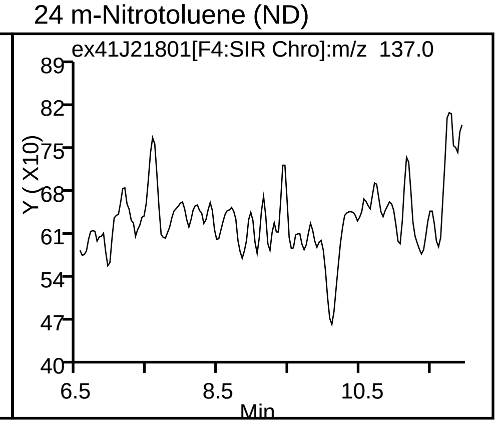
22 o-Nitrotoluene (ND)



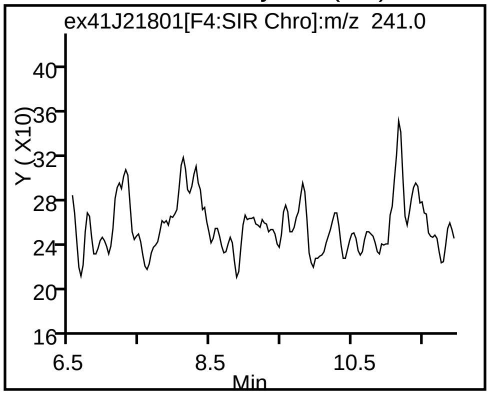
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP19 SB034   Lab Sample ID: 280-21902-72

Matrix: Solid   Lab File ID: ex41J21802.d

Analysis Method: 8321B   Date Collected: 10/17/2011 14:42

Extraction Method: 8330B   Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.28(g)   Date Analyzed: 11/03/2011 23:39

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21802.d		
Lims ID:	280-21902-A-72-C	Client ID:	SB034
Inject. Date:	03-Nov-2011 23:39:04	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-72-C 280-0002711-053		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	20
Lims Batch ID:	94611	Lims Sample ID:	53
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:47:05	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		649510	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2281162	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1515559	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	594826	79.4			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4775811	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.197							

QC Flag Legend

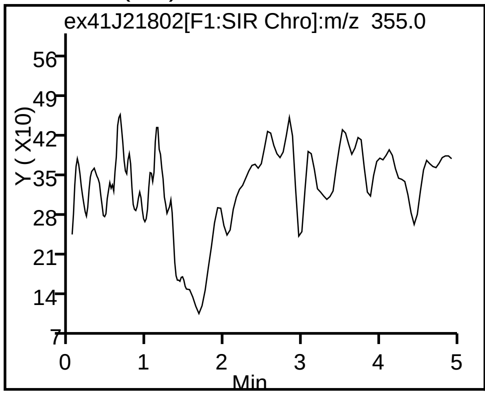
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:47:10　　Chrom Revision: 1.2　13-Jul-2011 10:43:06

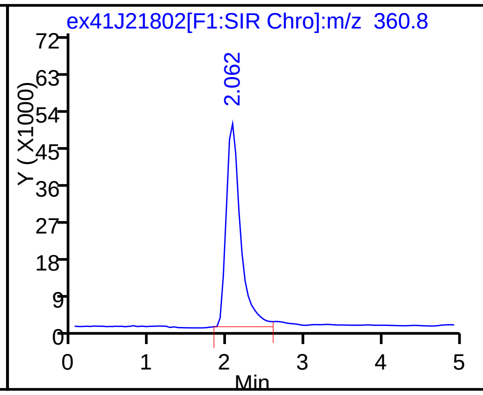
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21802.d

Injection Date:	03-Nov-2011 23:39:04	Limit Group:	LC - 8321A Expl
Client ID:	SB034	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	53
Operator ID:		Injection Vol:	40.00 ul

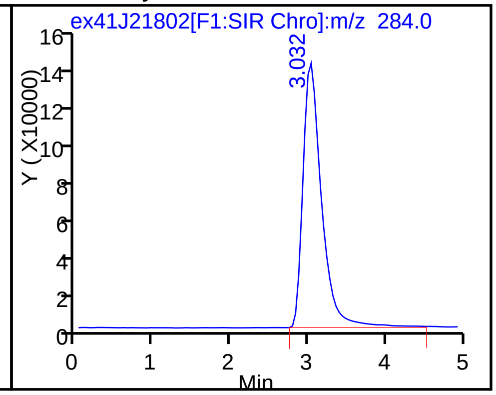
2 HMX (ND)



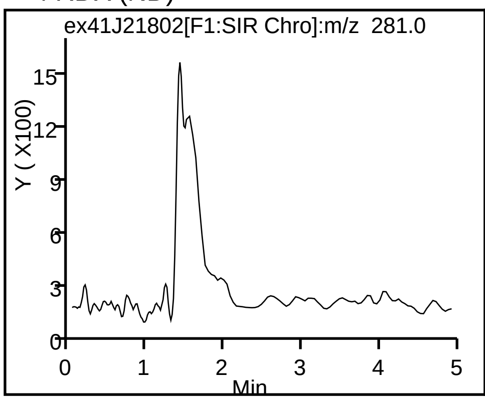
* 1 HMX-13C4



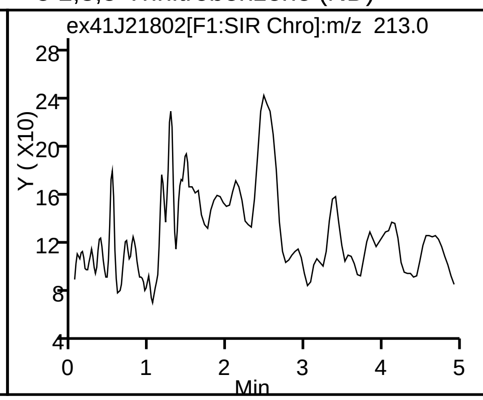
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



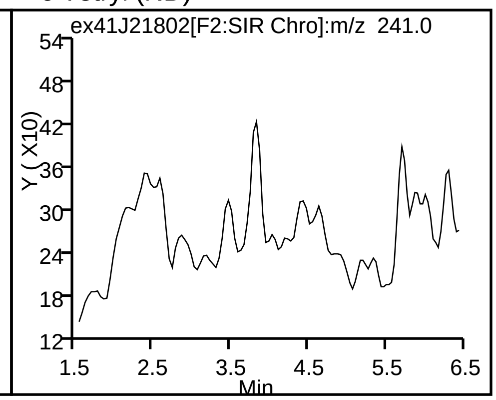
4 RDX (ND)



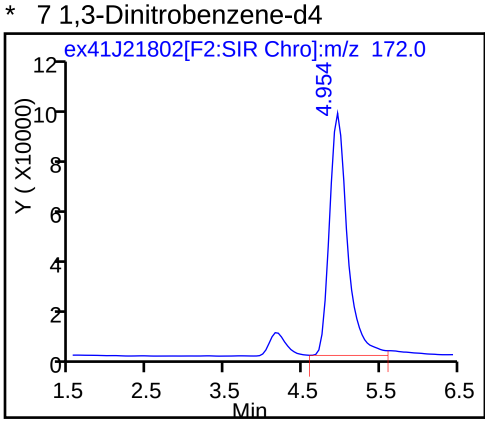
5 1,3,5-Trinitrobenzene (ND)



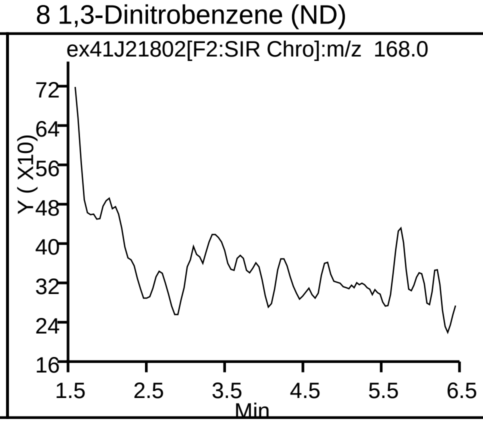
6 Tetryl (ND)



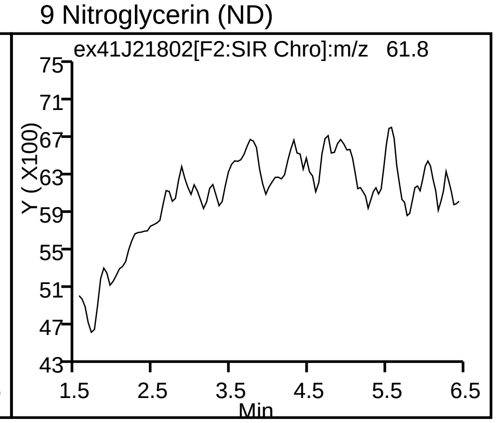
* 7 1,3-Dinitrobenzene-d4



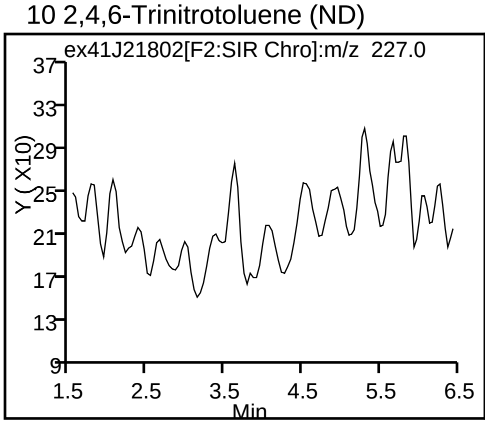
8 1,3-Dinitrobenzene (ND)



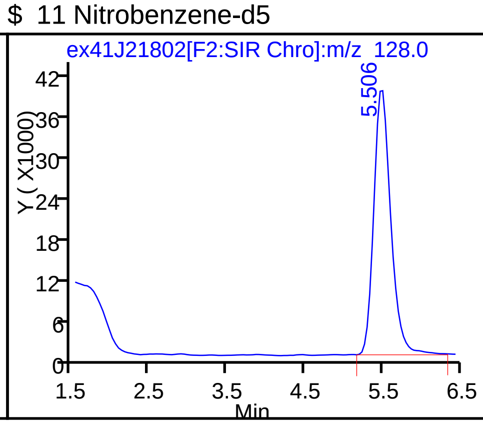
9 Nitroglycerin (ND)



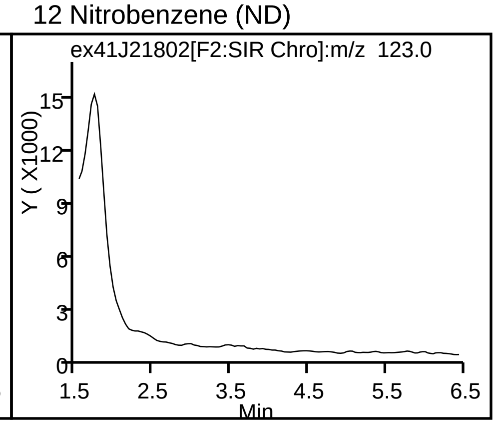
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

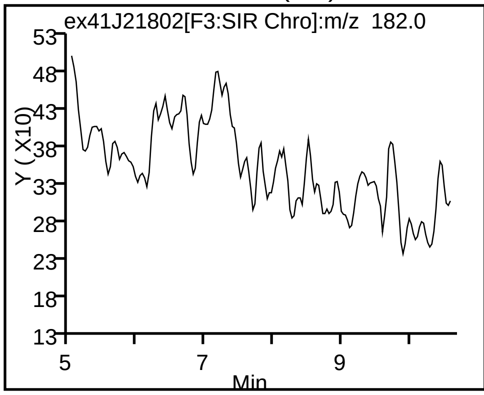


12 Nitrobenzene (ND)

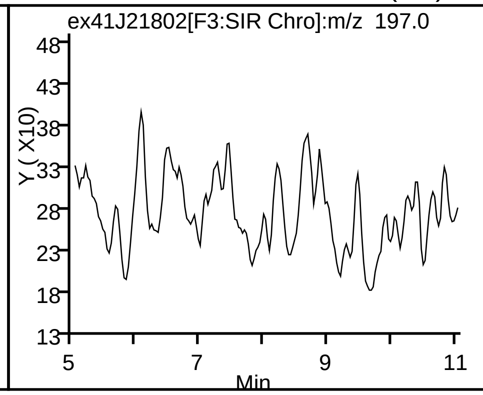


Report Date: 04-Nov-2011 06:47:10 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21802.d

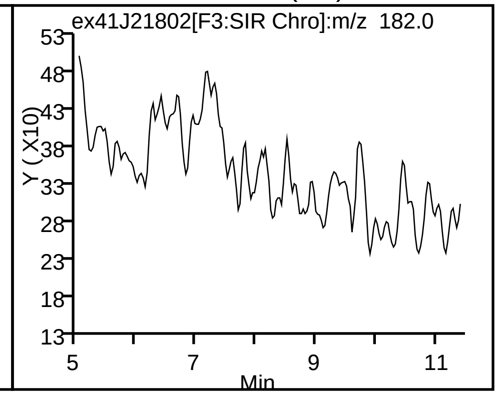
13 3,4-Dinitrotoluene (ND)



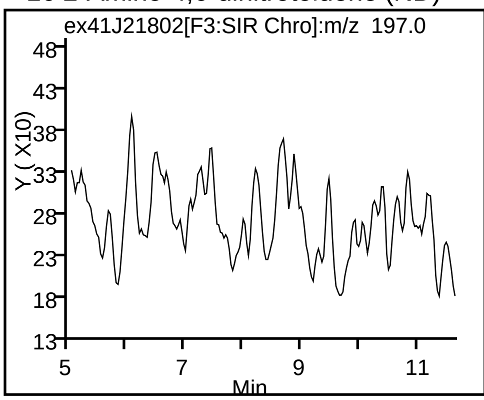
14 4-Amino-2,6-dinitrotoluene (ND)



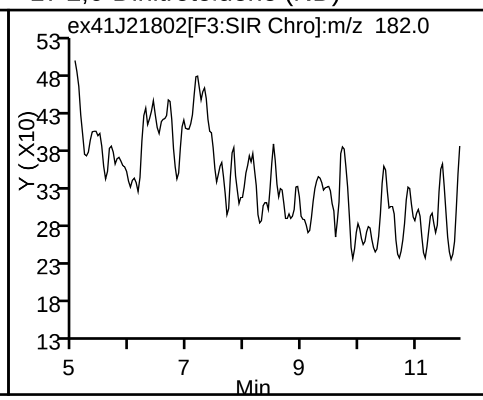
15 2,3-Dinitrotoluene (ND)



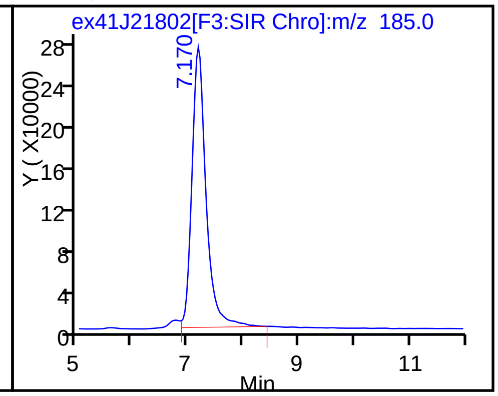
16 2-Amino-4,6-dinitrotoluene (ND)



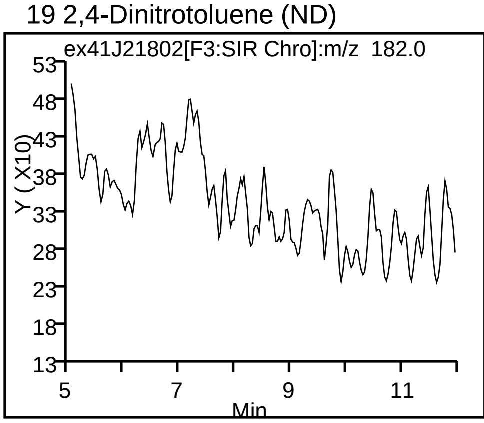
17 2,6-Dinitrotoluene (ND)



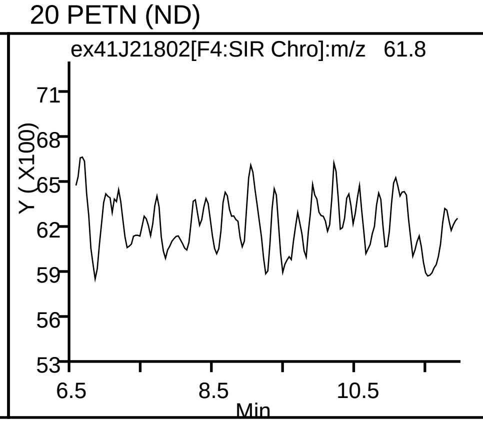
* 18 2,4-dinitrotoluene-d3



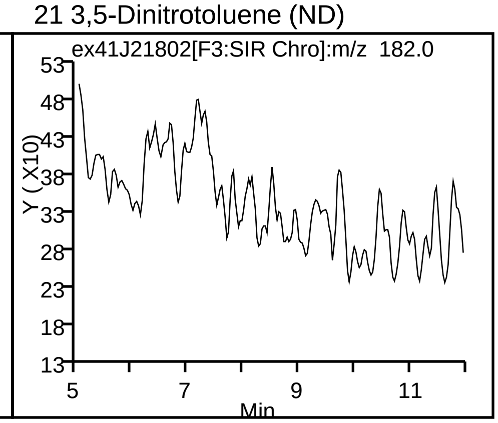
19 2,4-Dinitrotoluene (ND)



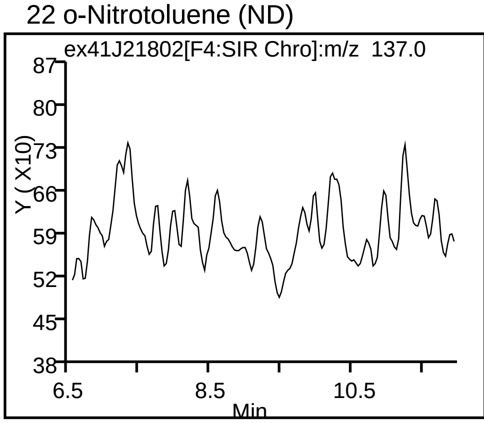
20 PETN (ND)



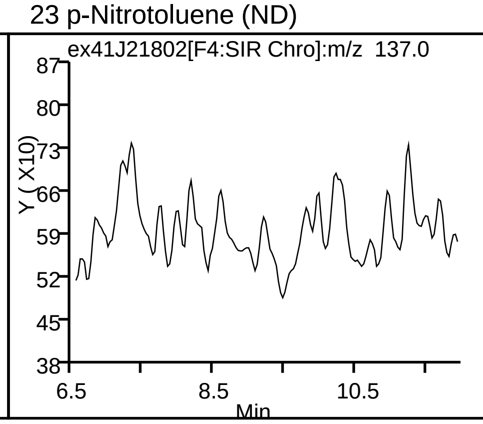
21 3,5-Dinitrotoluene (ND)



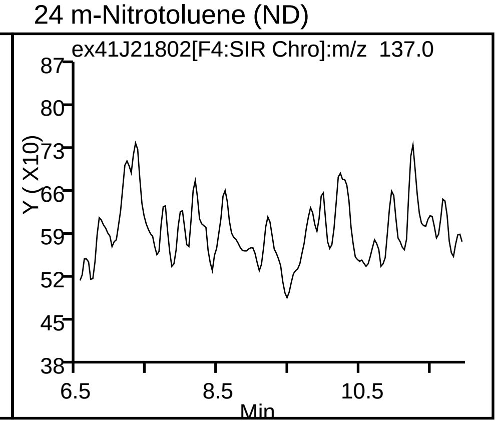
22 o-Nitrotoluene (ND)



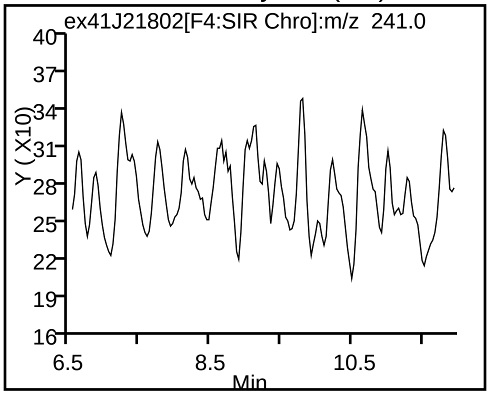
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP19 SB035 | Lab Sample ID: 280-21902-73

Matrix: Solid | Lab File ID: ex41J21803.d

Analysis Method: 8321B | Date Collected: 10/17/2011 14:44

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.34(g) | Date Analyzed: 11/03/2011 23:52

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21803.d		
Lims ID:	280-21902-B-73-B	Client ID:	SB035
Inject. Date:	03-Nov-2011 23:52:39	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-73-B 280-0002711-054		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	21
Lims Batch ID:	94611	Lims Sample ID:	54
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:47:05	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:39:35

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		732416	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2286769	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1383231	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	551709	80.7			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4224550	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.197							

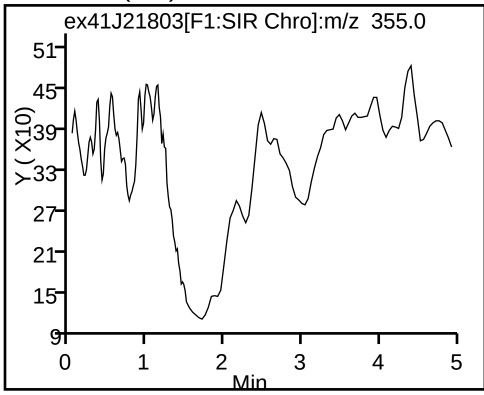
QC Flag Legend

Processing Flags
1 - Missing Peaks

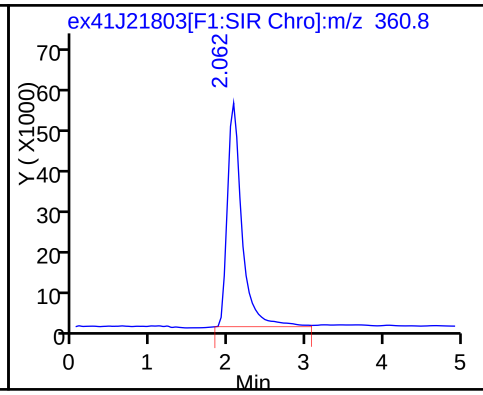
Report Date: 04-Nov-2011 06:47:11 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21803.d

Injection Date:	03-Nov-2011 23:52:39	Limit Group:	LC - 8321A Expl
Client ID:	SB035	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	54
Operator ID:		Injection Vol:	40.00 ul

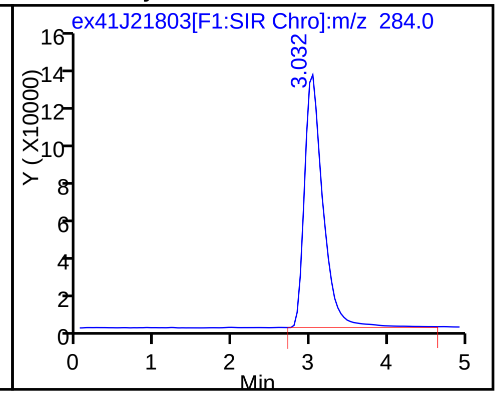
2 HMX (ND)



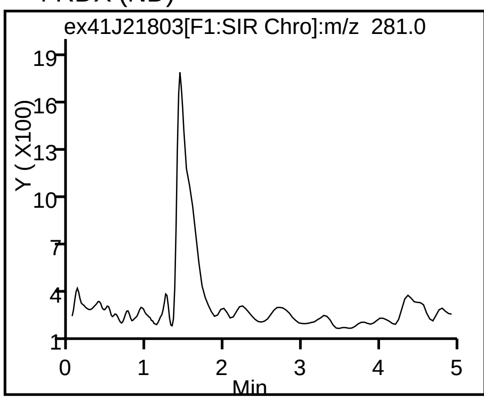
* 1 HMX-13C4



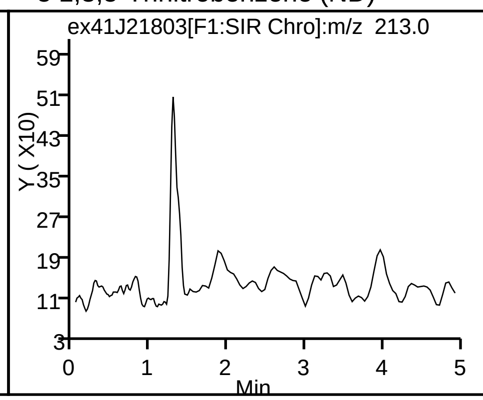
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



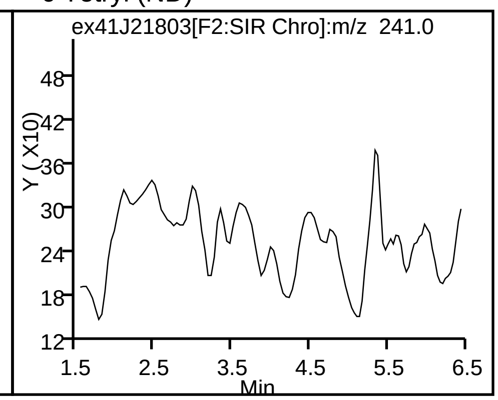
4 RDX (ND)



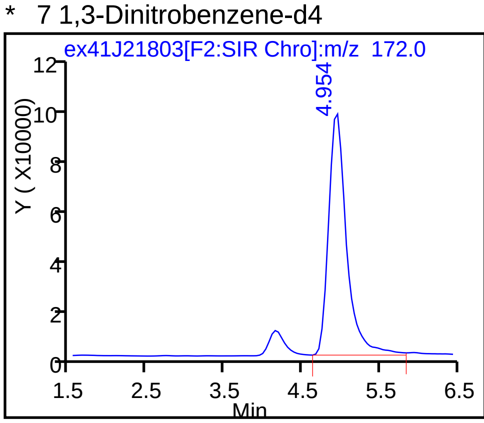
5 1,3,5-Trinitrobenzene (ND)



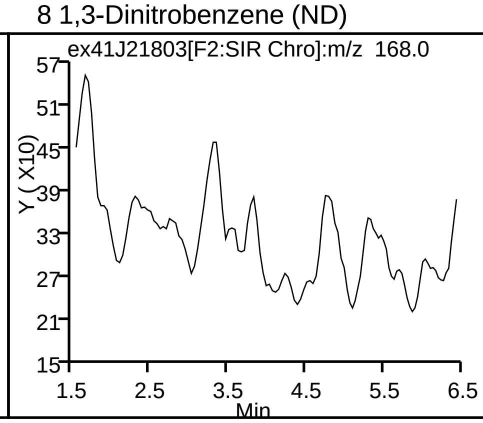
6 Tetryl (ND)



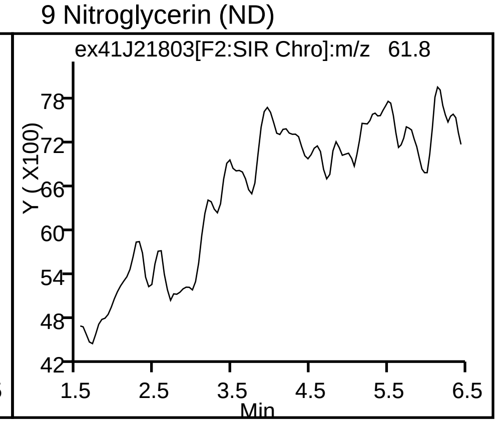
* 7 1,3-Dinitrobenzene-d4



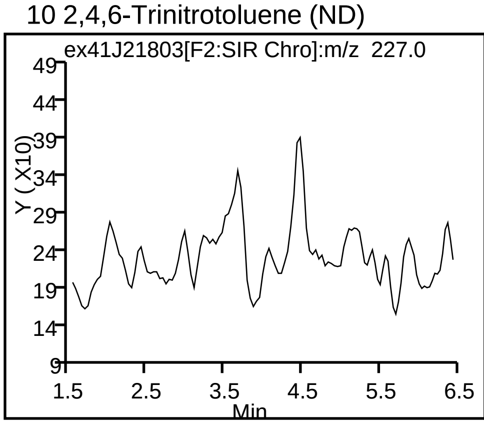
8 1,3-Dinitrobenzene (ND)



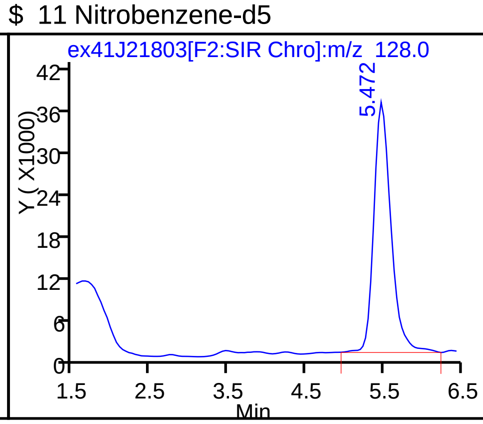
9 Nitroglycerin (ND)



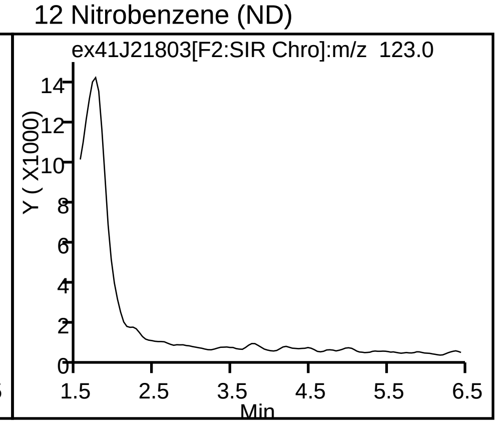
10 2,4,6-Trinitrotoluene (ND)



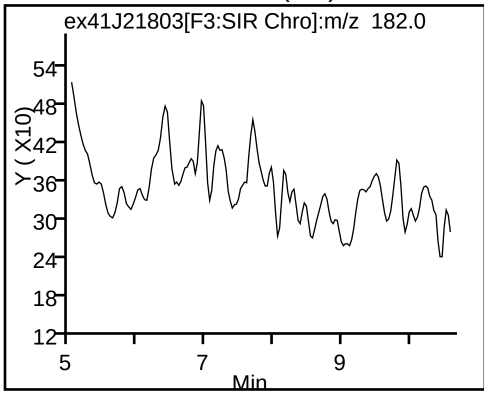
$ 11 Nitrobenzene-d5



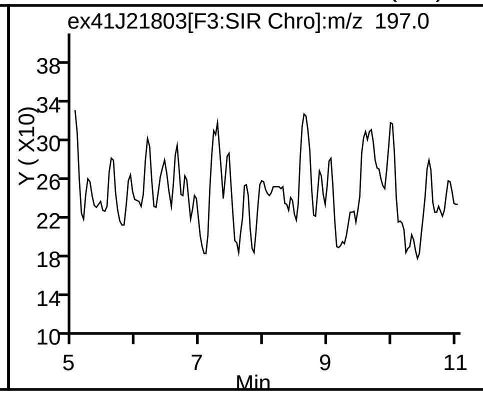
12 Nitrobenzene (ND)



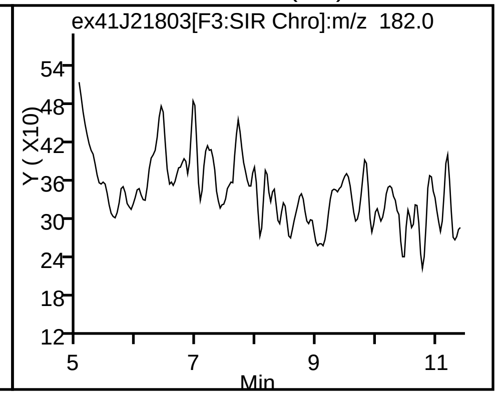
13 3,4-Dinitrotoluene (ND)



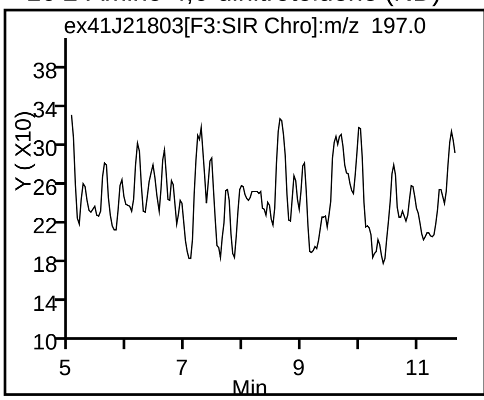
14 4-Amino-2,6-dinitrotoluene (ND)



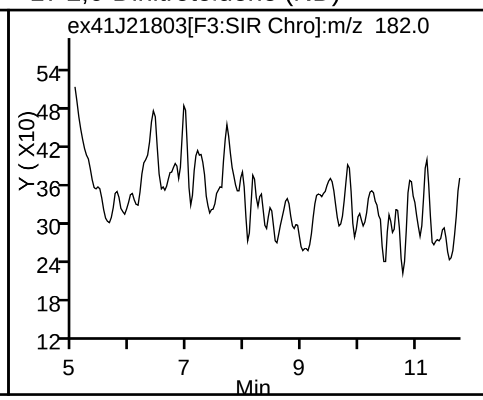
15 2,3-Dinitrotoluene (ND)



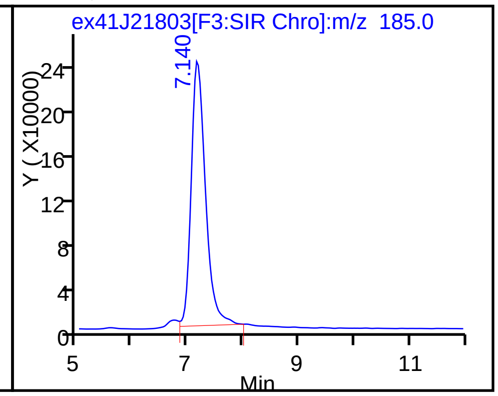
16 2-Amino-4,6-dinitrotoluene (ND)



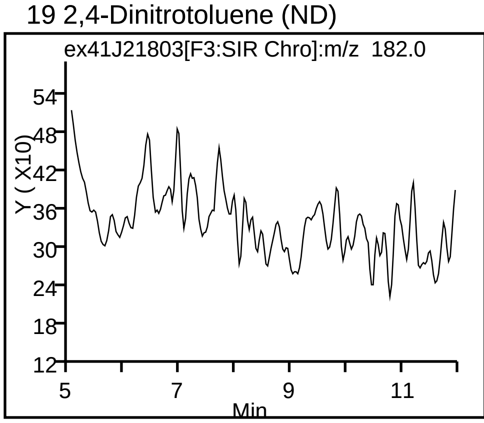
17 2,6-Dinitrotoluene (ND)



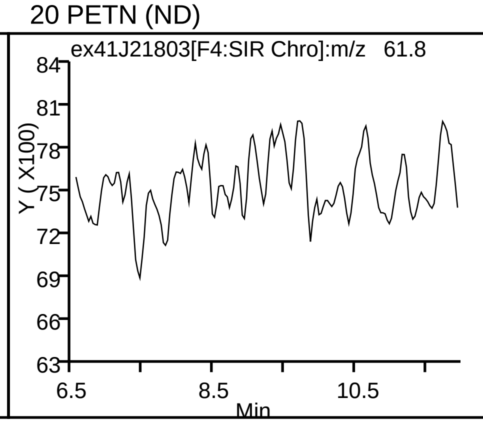
* 18 2,4-dinitrotoluene-d3



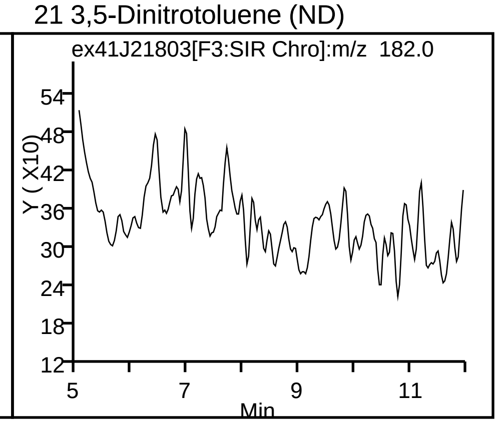
19 2,4-Dinitrotoluene (ND)



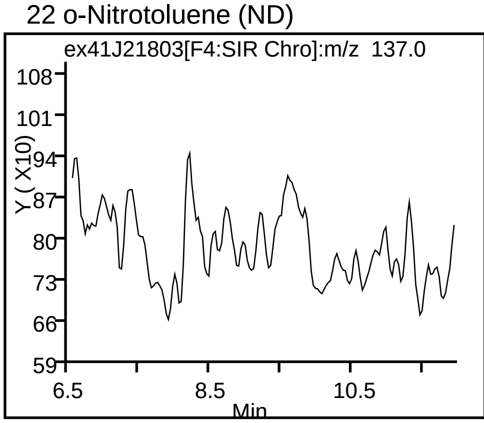
20 PETN (ND)



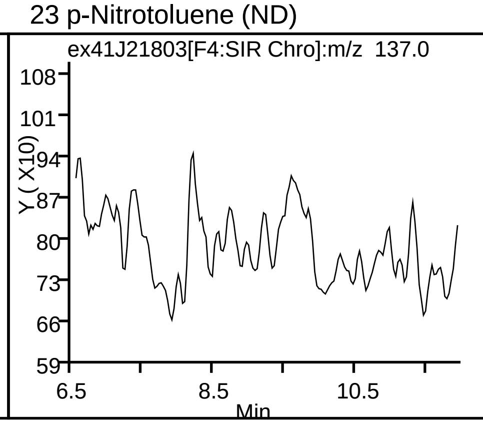
21 3,5-Dinitrotoluene (ND)



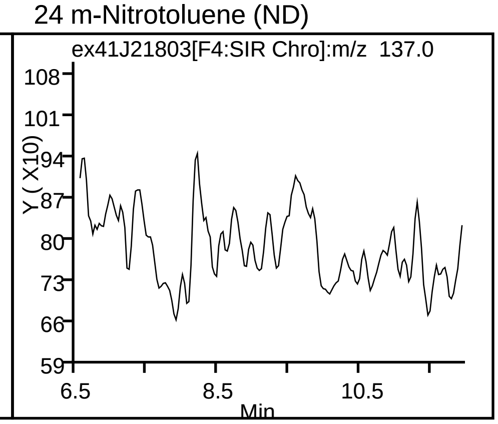
22 o-Nitrotoluene (ND)



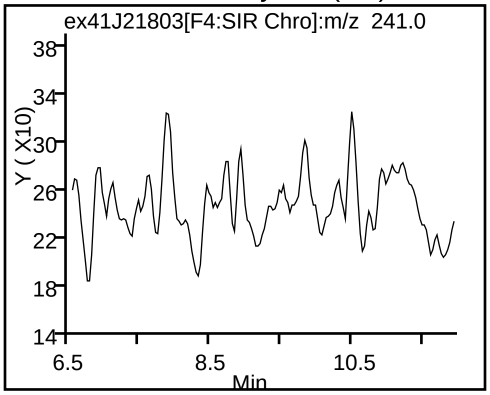
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-21902-1
SDG No.:
Client Sample ID: CP17 SB029
Lab Sample ID: 280-21902-74
Matrix: Solid
Lab File ID: ex41J21804.d
Analysis Method: 8321B
Date Collected: 10/17/2011 14:53
Extraction Method: 8330B
Date Extracted: 10/25/2011 19:45
Sample wt/vol: 10.58(g)
Date Analyzed: 11/04/2011 00:06
Con. Extract Vol.: 40(mL)
Dilution Factor: 1
Injection Volume: 40(uL)
GC Column: IonPac ID: 2(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 94611
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.0099
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	84		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21804.d		
Lims ID:	280-21902-B-74-B	Client ID:	SB029
Inject. Date:	04-Nov-2011 00:06:13	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-B-74-B 280-0002711-055		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	22
Lims Batch ID:	94611	Lims Sample ID:	55
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:47:05	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 04-Nov-2011 06:39:44

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		686698	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1934979	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1524435	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	627512	83.3			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4494433	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.197							

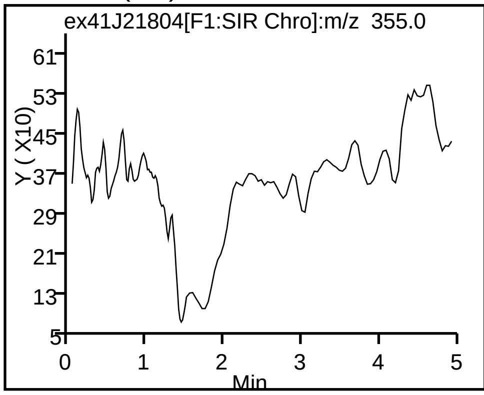
QC Flag Legend

Processing Flags
1 - Missing Peaks

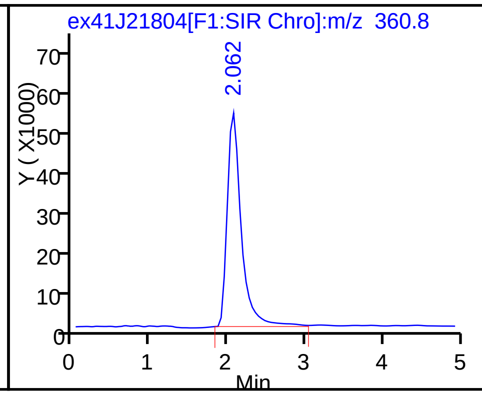
Report Date: 04-Nov-2011 06:47:11 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21804.d

Injection Date:	04-Nov-2011 00:06:13	Limit Group:	LC - 8321A Expl
Client ID:	SB029	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	55
Operator ID:		Injection Vol:	40.00 ul

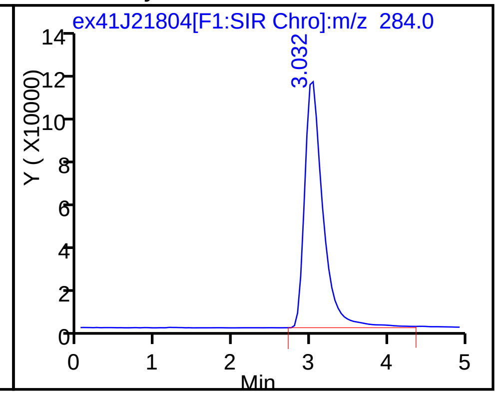
2 HMX (ND)



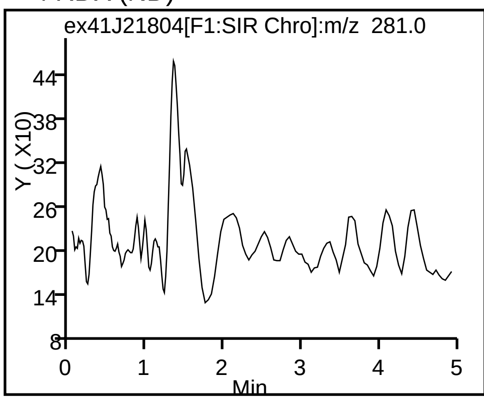
* 1 HMX-13C4



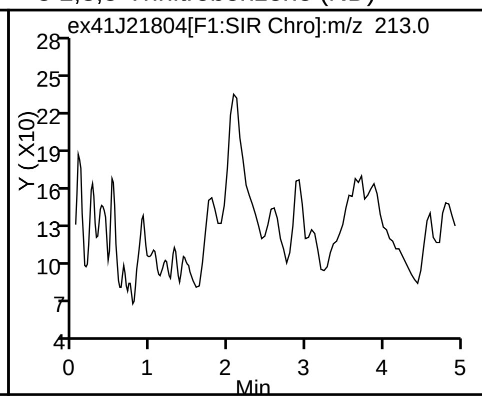
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



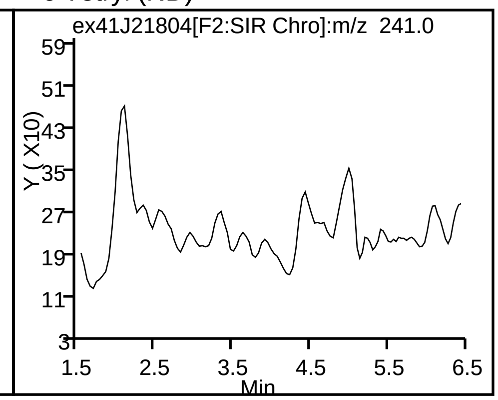
4 RDX (ND)



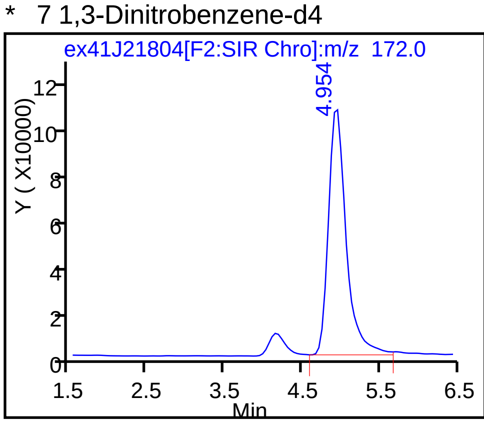
5 1,3,5-Trinitrobenzene (ND)



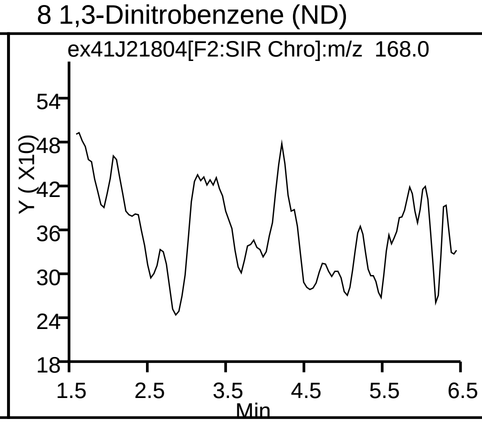
6 Tetryl (ND)



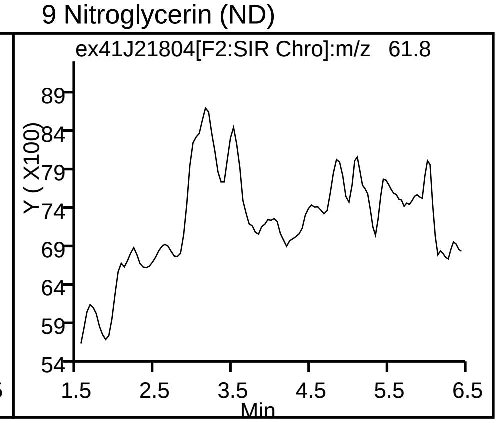
* 7 1,3-Dinitrobenzene-d4



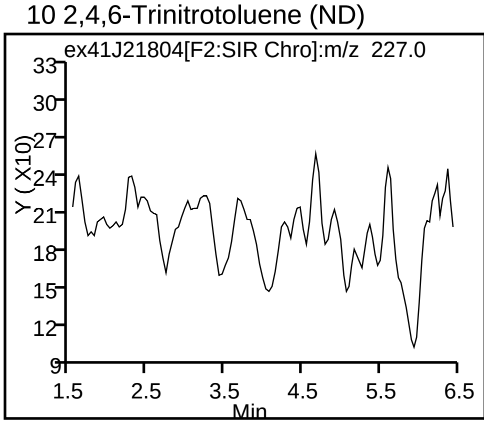
8 1,3-Dinitrobenzene (ND)



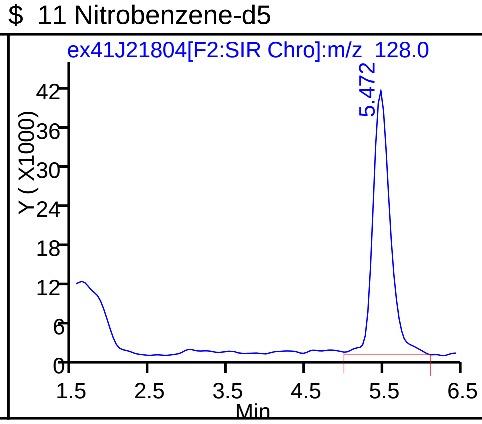
9 Nitroglycerin (ND)



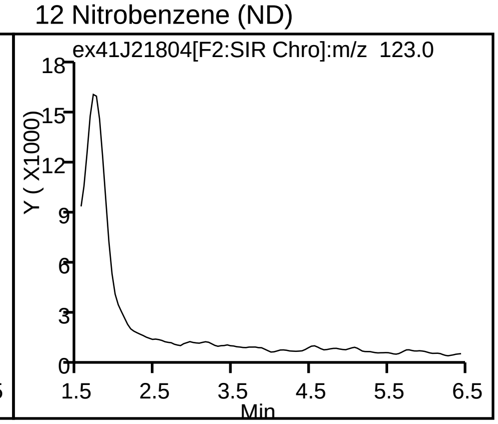
10 2,4,6-Trinitrotoluene (ND)



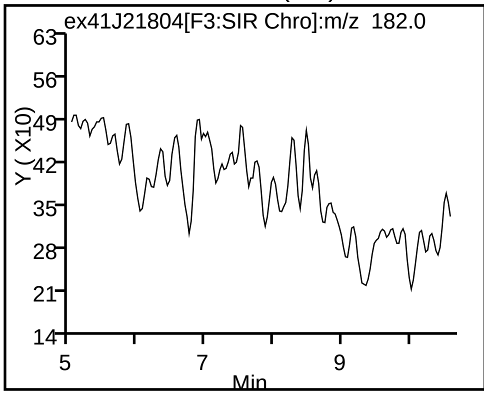
$ 11 Nitrobenzene-d5



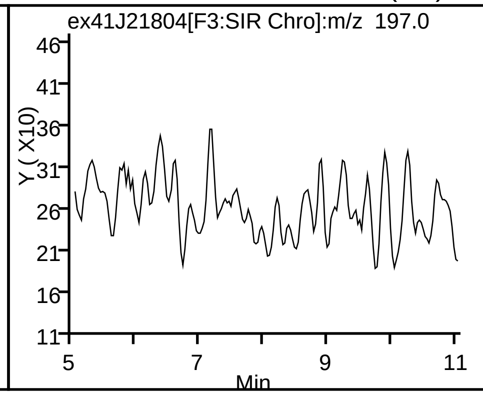
12 Nitrobenzene (ND)



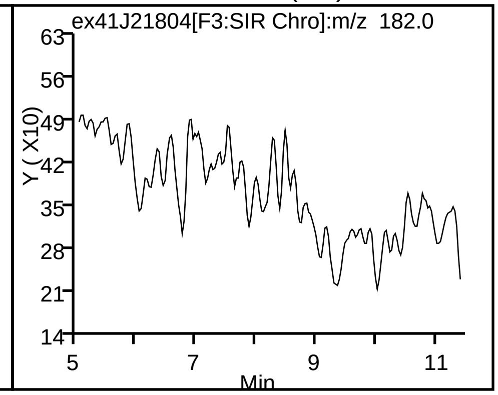
13 3,4-Dinitrotoluene (ND)



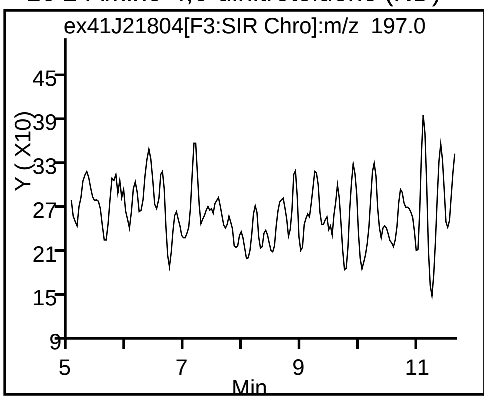
14 4-Amino-2,6-dinitrotoluene (ND)



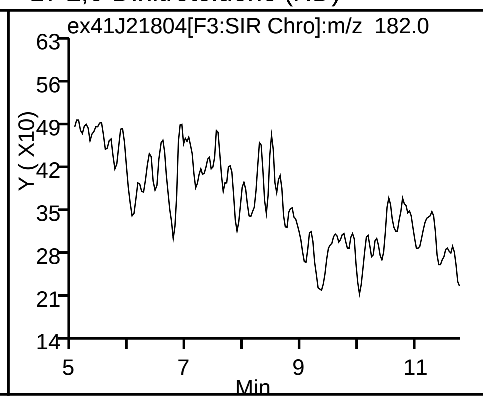
15 2,3-Dinitrotoluene (ND)



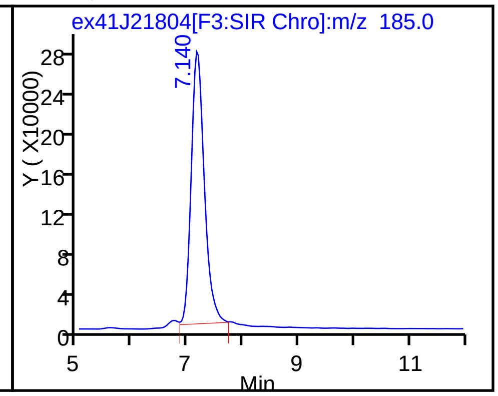
16 2-Amino-4,6-dinitrotoluene (ND)



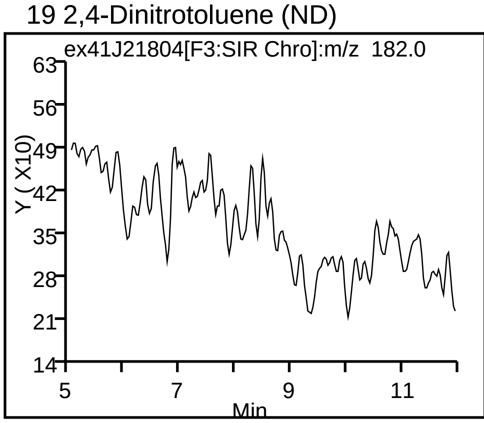
17 2,6-Dinitrotoluene (ND)



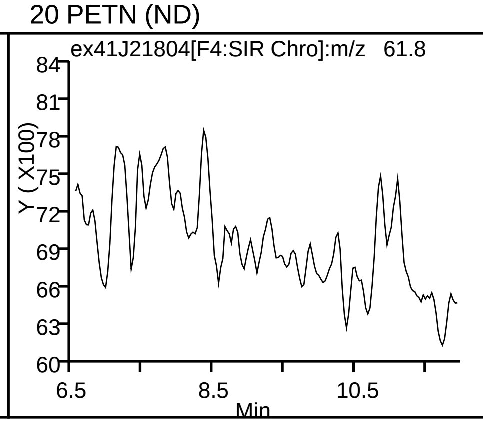
* 18 2,4-dinitrotoluene-d3



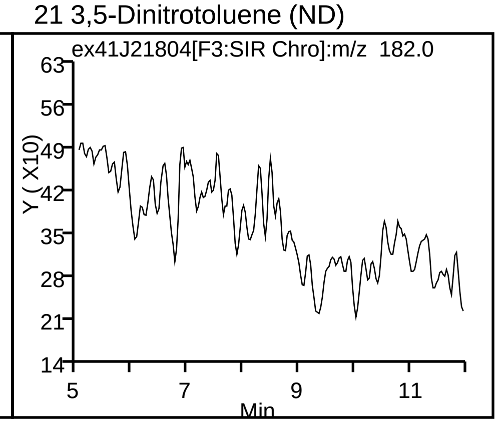
19 2,4-Dinitrotoluene (ND)



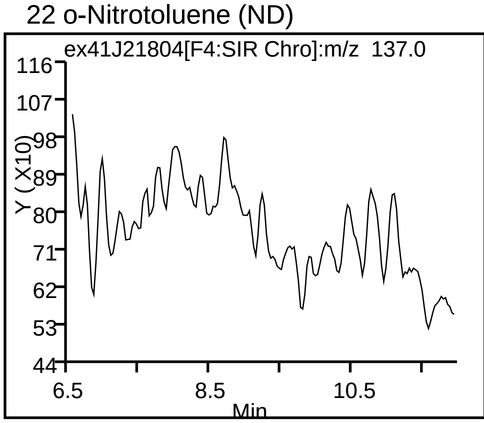
20 PETN (ND)



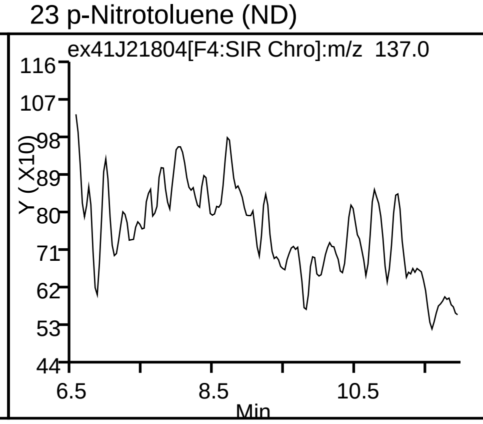
21 3,5-Dinitrotoluene (ND)



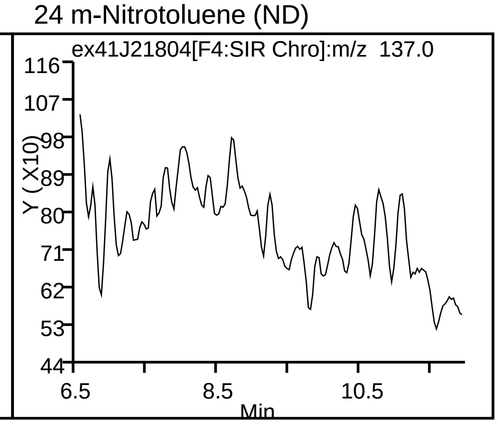
22 o-Nitrotoluene (ND)



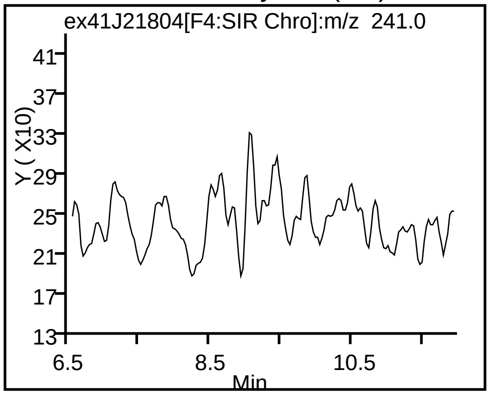
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP17 SB030 | Lab Sample ID: 280-21902-75

Matrix: Solid | Lab File ID: ex41J21805.d

Analysis Method: 8321B | Date Collected: 10/17/2011 15:03

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.12(g) | Date Analyzed: 11/04/2011 00:19

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac | ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	95		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21805.d		
Lims ID:	280-21902-A-75-C	Client ID:	SB030
Inject. Date:	04-Nov-2011 00:19:47	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-21902-A-75-C 280-0002711-056		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	23
Lims Batch ID:	94611	Lims Sample ID:	56
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:47:05	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:40:00

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		796549	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1952935	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1776671	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	823655	93.9			
12 Nitrobenzene										
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

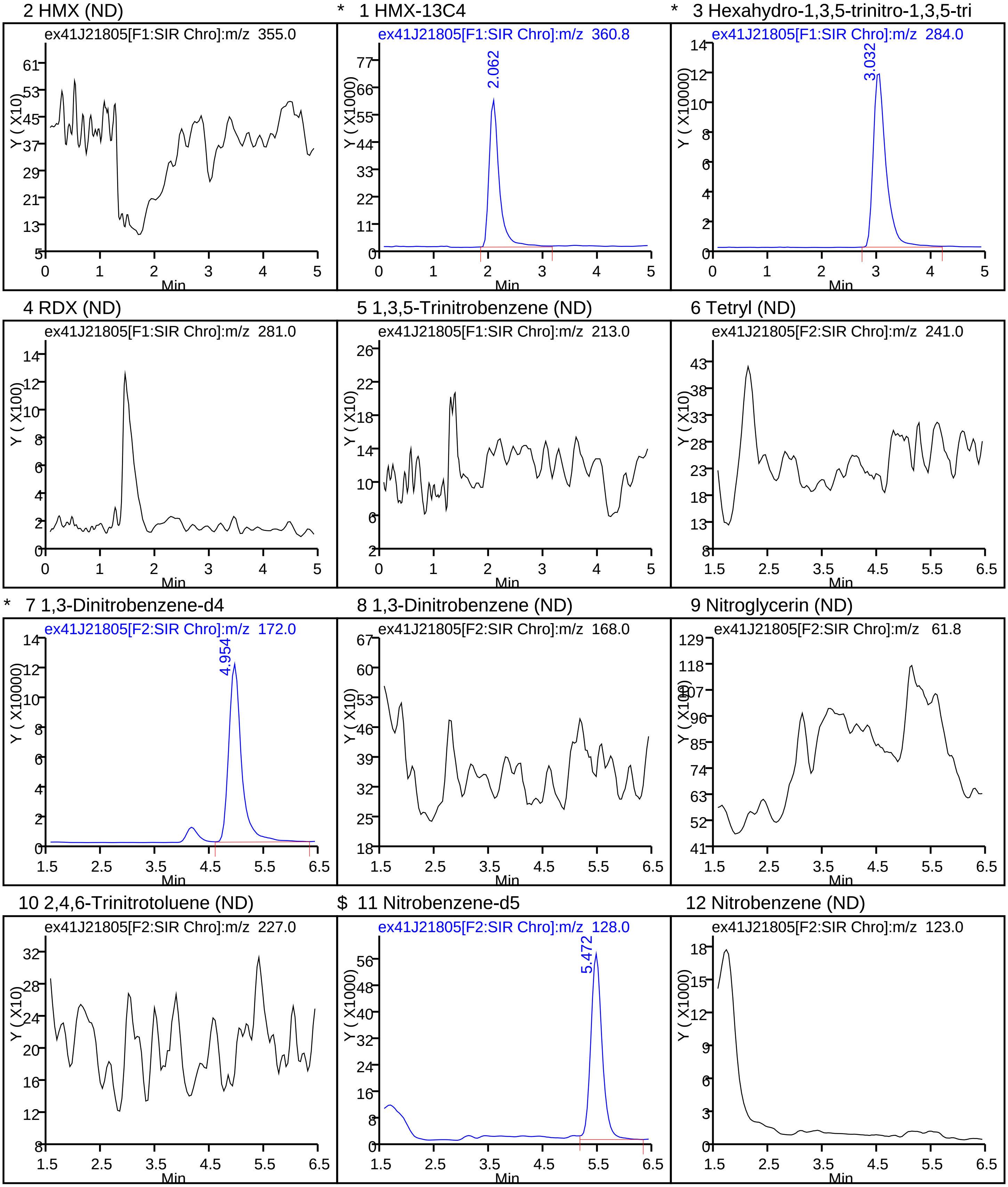
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		5013745	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.163							
23 p-Nitrotoluene										1
4	137.0		8.709							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.197							

QC Flag Legend

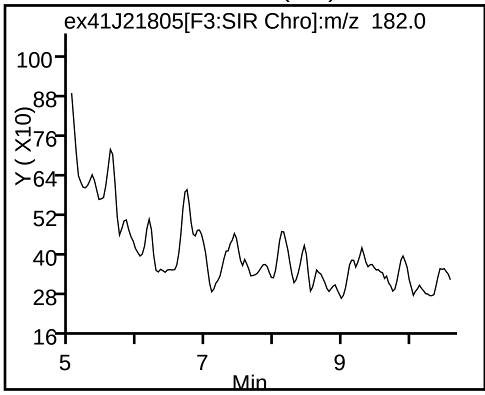
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:47:12 Chrom Revision: 1.2 13-Jul-2011 10:43:06

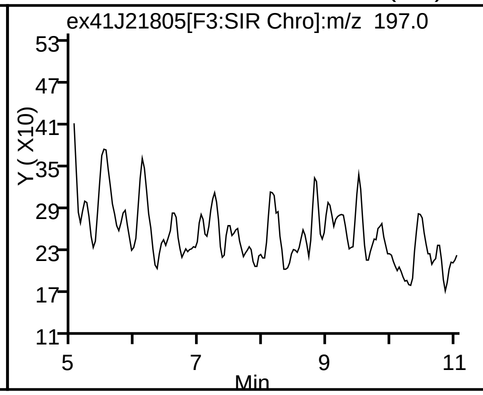
Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21805.d		
Injection Date:	04-Nov-2011 00:19:47	Limit Group:	LC - 8321A Expl
Client ID:	SB030	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	56
Operator ID:		Injection Vol:	40.00 ul



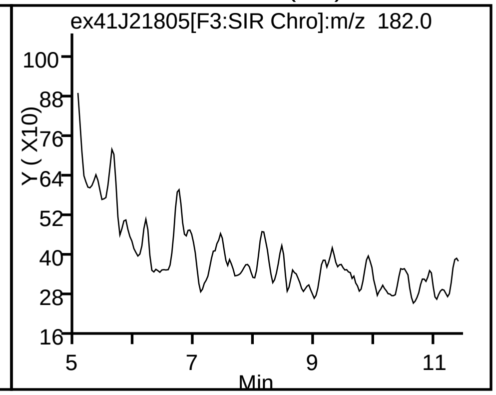
13 3,4-Dinitrotoluene (ND)



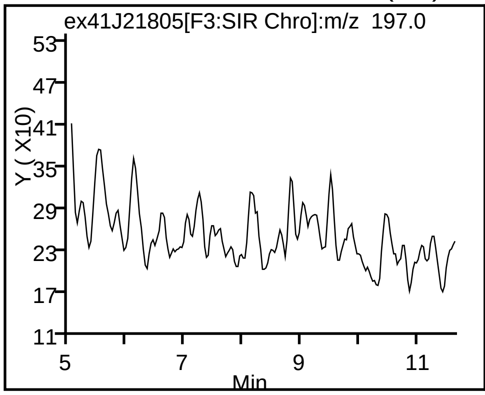
14 4-Amino-2,6-dinitrotoluene (ND)



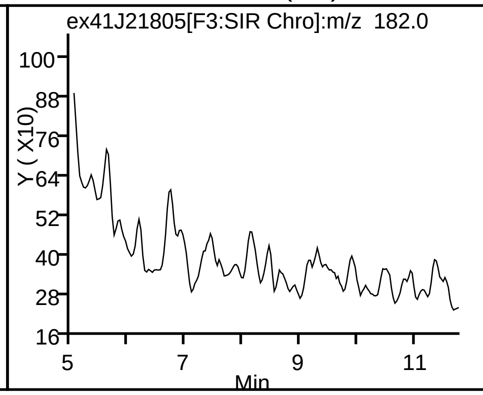
15 2,3-Dinitrotoluene (ND)



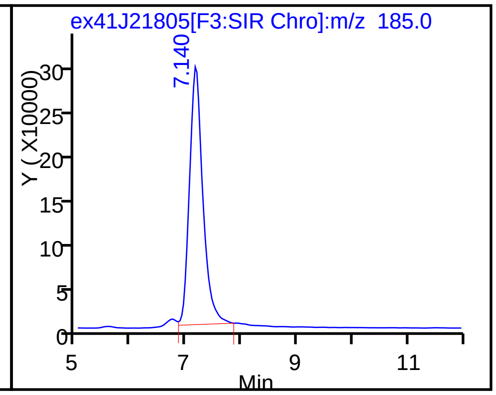
16 2-Amino-4,6-dinitrotoluene (ND)



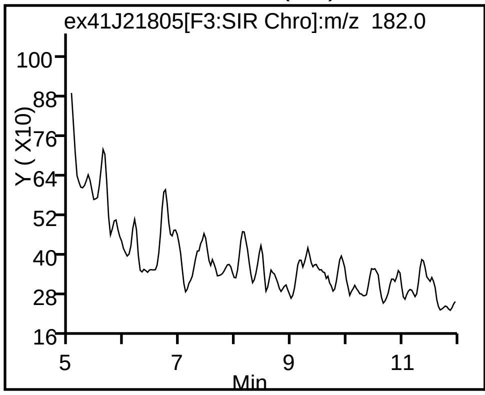
17 2,6-Dinitrotoluene (ND)



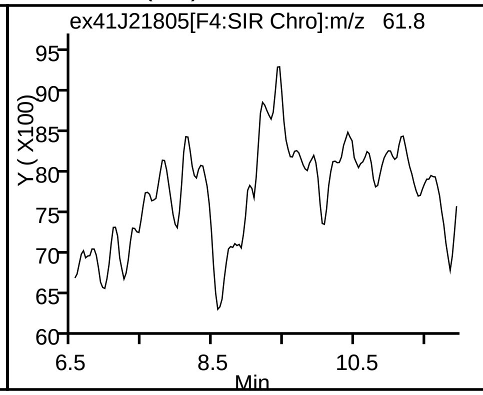
* 18 2,4-dinitrotoluene-d3



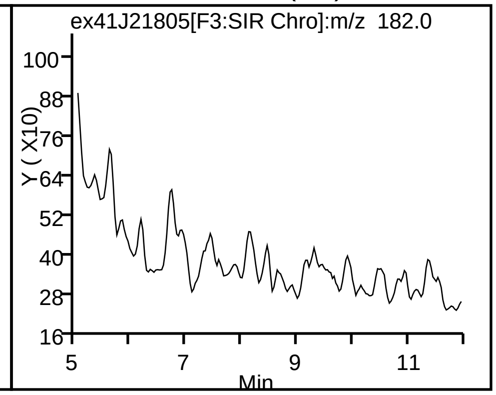
19 2,4-Dinitrotoluene (ND)



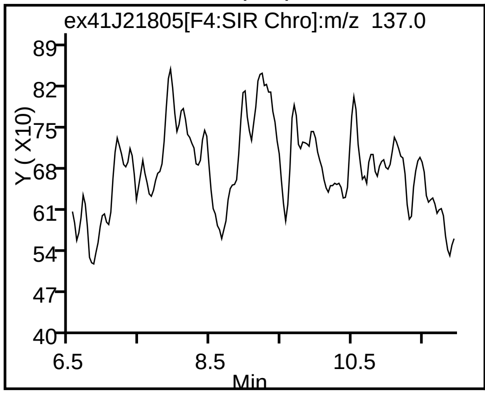
20 PETN (ND)



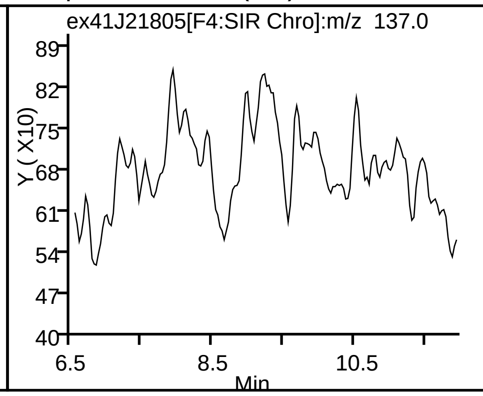
21 3,5-Dinitrotoluene (ND)



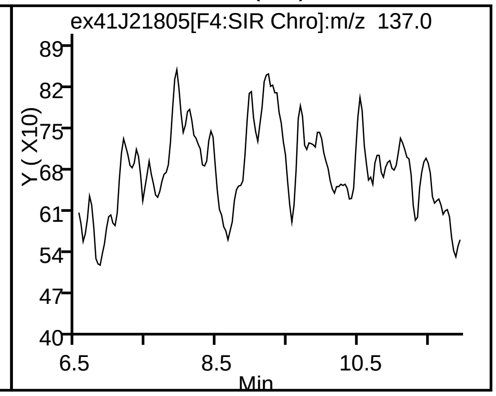
22 o-Nitrotoluene (ND)



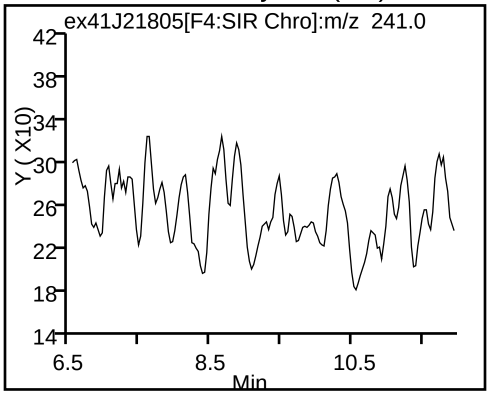
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver   Job No.: 280-21902-1   Analy Batch No.: 92354

SDG No.:

Instrument ID: LC_LCMS4   GC Column: IonPac   ID: 2(mm)   Heated Purge: (Y/N) N

Calibration Start Date: 10/21/2011 09:28   Calibration End Date: 10/21/2011 10:50   Calibration ID: 7573

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 280-92354/1	ex41J21003.d
Level 2	STD010 280-92354/2	ex41J21004.d
Level 3	STD025 280-92354/3	ex41J21005.d
Level 4	STD050 280-92354/4	ex41J21006.d
Level 5	STD100 280-92354/5	ex41J21007.d
Level 6	STD200 280-92354/6	ex41J21008.d
Level 7	STD300 280-92354/7	ex41J21009.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
HMX	2.2182 2.2731	1.9236 2.2645	2.1711	2.0672	2.2516	Lin1	-1.712	2.2595							0.9990		0.9900
RDX	0.9375 0.9413	0.9337 0.9381	0.9974	1.0238	0.9753	Lin1	0.2512	0.9501							0.9990		0.9900
1,3,5-Trinitrobenzene	0.8700 1.3297	0.9584 1.1713	1.0252	0.9401	1.1640	Lin1	-2.812	1.2174							0.9920		0.9900
Tetryl	1.0794 1.4849	1.1903 1.3601	1.1381	1.1390	1.4640	Lin1	-2.664	1.4101							0.9950		0.9900
1,3-Dinitrobenzene	1.0978 1.1244	1.0559 1.1245	1.1136	1.0402	1.1776	Lin1	-0.453	1.1291							0.9990		0.9900
Nitroglycerin	6.2260 6.7017	5.8309 6.8942	6.1517	5.9684	6.8308	Lin1	-7.814	6.7948							0.9990		0.9900
2,4,6-Trinitrotoluene	4.6668 5.1235	4.6980 4.8059	4.4818	4.6009	5.3964	Lin1	-2.955	4.9847							0.9970		0.9900
Nitrobenzene	1.1545 1.0541	0.9109 1.0057	0.9846	0.9182	1.0315	Lin1	-0.172	1.0179							0.9980		0.9900
3,4-Dinitrotoluene	2.4051 2.4104	2.2025 2.2285	2.3671	2.4213	2.2615	Lin1	0.5053	2.3008							0.9980		0.9900
4-Amino-2,6-dinitrotoluene	1.1396 1.1917	1.1698 1.1769	1.1662	1.2105	1.2202	Lin1	-0.158	1.1908							1.0000		0.9900
2,3-Dinitrotoluene	3.0615 3.2029	2.8923 2.8747	3.1169	3.2541	3.0173	Lin1	0.7194	3.0211							0.9970		0.9900
2-Amino-4,6-dinitrotoluene	1.4447 1.5699	1.4248 1.4011	1.6020	1.6085	1.3618	Lin1	0.4614	1.4626							0.9950		0.9900
2,6-Dinitrotoluene	2.7864 2.6538	2.6117 2.7081	2.6487	2.7049	2.5073	Lin1	0.0018	2.6600							0.9990		0.9900
2,4-Dinitrotoluene	1.1715 1.2931	1.2566 1.2686	1.3078	1.3433	1.2295	Lin1	-0.201	1.2780							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver　Job No.: 280-21902-1　Analy Batch No.: 92354

SDG No.:

Instrument ID: LC_LCMS4　GC Column: IonPac　ID: 2(mm)　Heated Purge: (Y/N) N

Calibration Start Date: 10/21/2011 09:28　Calibration End Date: 10/21/2011 10:50　Calibration ID: 7573

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PETN	2.2918 2.0425	2.2576 1.8232	2.3821	2.1025	2.0069	Lin1	3.7725	1.9252							0.9950		0.9900
3,5-Dinitrotoluene	0.5736 0.7269	0.5937 0.6233	0.5407	0.6025	0.6385	Lin1	-0.821	0.6586							0.9930		0.9900
2-Nitrotoluene	0.5224 0.5477	0.5723 0.5273	0.5547	0.5190	0.5121	Lin1	0.1012	0.5310							0.9990		0.9900
4-Nitrotoluene	0.4587 0.4859	0.4529 0.4761	0.4914	0.4571	0.4518	Lin1	-0.146	0.4756							0.9990		0.9900
3-Nitrotoluene	0.3188 0.3008	0.2672 0.2891	0.3101	0.2937	0.2849	Lin1	0.0463	0.2924							0.9990		0.9900
Nitrobenzene-d5	1.3264 1.3455	1.3546 1.2329	1.4944	1.1242	1.2797	Lin1	0.7265	1.2691							0.9960		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-21902-1 Analy Batch No.: 92354

SDG No.:

Instrument ID: LC_LCMS4 GC Column: IonPac ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/21/2011 09:28 Calibration End Date: 10/21/2011 10:50 Calibration ID: 7573

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 280-92354/1	ex41J21003.d
Level 2	STD010 280-92354/2	ex41J21004.d
Level 3	STD025 280-92354/3	ex41J21005.d
Level 4	STD050 280-92354/4	ex41J21006.d
Level 5	STD100 280-92354/5	ex41J21007.d
Level 6	STD200 280-92354/6	ex41J21008.d
Level 7	STD300 280-92354/7	ex41J21009.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
HMX	HXC4	Lin1	28537 810121	48678 965254	138769	268387	516486	5.00 200	10.0 300	25.0	50.0	100
RDX	HHTT	Lin1	44214 1408872	81945 2008053	205524	462065	847609	4.94 197	9.87 296	24.7	49.4	98.7
1,3,5-Trinitrobenzene	DNB4	Lin1	28815 1424958	54451 1920435	159749	325370	671081	5.01 200	10.0 300	25.0	50.1	100
Tetryl	DNB4	Lin1	35500 1580104	67153 2214425	176105	391461	838121	4.97 199	9.94 298	24.9	49.7	99.4
1,3-Dinitrobenzene	DNB4	Lin1	36829 1220565	60771 1867624	175773	364698	687743	5.07 203	10.1 304	25.4	50.7	101
Nitroglycerin	DNB4	Lin1	205994 7174376	330946 11292599	957602	2063587	3934172	5.00 200	10.0 300	25.0	50.0	100
2,4,6-Trinitrotoluene	DNB4	Lin1	154561 5490351	266915 7879891	698359	1592359	3111149	5.01 200	10.0 300	25.0	50.1	100
Nitrobenzene	DNB4	Lin1	38160 1127345	51651 1645655	153111	317143	593466	5.00 200	9.99 300	25.0	50.0	99.9
3,4-Dinitrotoluene	DNT3	Lin1	226555 8250055	385448 11687210	1022004	2459914	4418559	5.00 200	10.0 300	25.0	50.0	100
4-Amino-2,6-dinitrotoluene	DNT3	Lin1	105907 4024449	201970 6089652	496765	1213347	2352065	4.94 197	9.87 296	24.7	49.4	98.7
2,3-Dinitrotoluene	DNT3	Lin1	288210 10956168	505861 15067138	1344894	3304020	5891593	5.00 200	10.00 300	25.0	50.0	100.0
2-Amino-4,6-dinitrotoluene	DNT3	Lin1	136166 5376786	249495 7352568	692097	1635187	2662321	5.01 200	10.0 300	25.0	50.1	100
2,6-Dinitrotoluene	DNT3	Lin1	262629 9088816	457334 14211297	1144280	2749675	4901609	5.01 200	10.0 300	25.0	50.1	100
2,4-Dinitrotoluene	DNT3	Lin1	110639 4437530	220476 6670517	566101	1368284	2408469	5.02 201	10.0 301	25.1	50.2	100
PETN	DNT3	Lin1	215371 6974193	394148 9539084	1026023	2130938	3911608	4.99 200	9.98 299	25.0	49.9	99.8

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-21902-1 Analy Batch No.: 92354

SDG No.:

Instrument ID: LC_LCMS4 GC Column: IonPac ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/21/2011 09:28 Calibration End Date: 10/21/2011 10:50 Calibration ID: 7573

ANALYTE	IS REF	CURVE TYPE	RESPONSE LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	CONCENTRATION (UG/L) LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
3,5-Dinitrotoluene	DNT3	Lin1	54009 2487075	103865 3267415	233350	611884	1246969	5.00 200	10.0 300	25.0	50.0	100
2-Nitrotoluene	DNT3	Lin1	48751 1856989	99217 2739568	237241	522289	991158	4.96 198	9.91 297	24.8	49.6	99.1
4-Nitrotoluene	DNT3	Lin1	42976 1654035	78825 2483358	211017	461884	877872	4.98 199	9.95 299	24.9	49.8	99.5
3-Nitrotoluene	DNT3	Lin1	29657 1016967	46178 1497484	132243	294700	549697	4.94 198	9.88 296	24.7	49.4	98.8
Nitrobenzene-d5	DNB4	Lin1	43896 1440792	76901 2019931	232688	388797	737235	5.00 200	10.0 300	25.0	50.0	100

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21003.d		
Lims ID:	STD005	Client ID:	
Inject. Date:	21-Oct-2011 09:28:17	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	10/21/11EX1 STD005 ug/L 280-0002644-001		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	2
Lims Batch ID:	92354	Lims Sample ID:	1
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:38	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

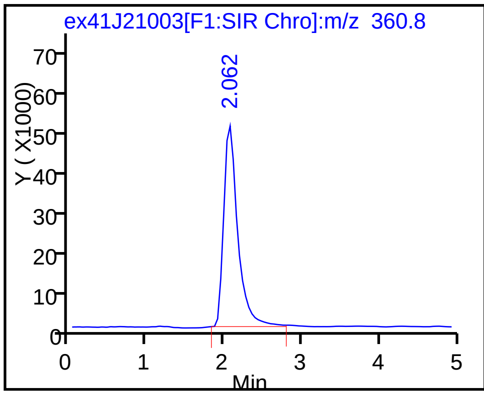
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		643250	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	28537	5.67			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2389043	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	44214	4.61			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	28815	5.89			
6 Tetryl										
2	241.0	4.469	4.509	-0.040	0.902	35500	5.69			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.994	-0.040		1711880	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	5.035	-0.041	1.008	36829	5.33			
9 Nitroglycerin										
2	61.8	5.035	5.068	-0.033	1.016	205994	5.73			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.439	-0.034	1.091	154561	5.28			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.540	-0.034	1.111	43896	4.65			
12 Nitrobenzene										
2	123.0	5.607	5.641	-0.034	1.132	38160	5.83			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.718	-0.034	0.793	226555	5.01			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.122	-0.034	0.849	105907	4.86			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.459	6.533	-0.074	0.901	288210	4.83			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.715	-0.030	0.932	136166	4.63			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.867	-0.030	0.953	262629	5.24			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.231	-0.061		4708059	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.292	-0.030	1.013	110639	4.75			
20 PETN										
4	61.8	7.707	7.768	-0.061	1.000	215371	3.98			
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.899	-0.030	1.097	54009	5.60			
22 o-Nitrotoluene										
4	137.0	8.223	8.284	-0.061	1.000	48751	4.68			
23 p-Nitrotoluene										
4	137.0	8.770	8.831	-0.061	1.000	42976	5.10			
24 m-Nitrotoluene										
4	137.0	9.438	9.499	-0.061	1.000	29657	5.23			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.319	10.379	-0.060	1.000	327866	4.58			

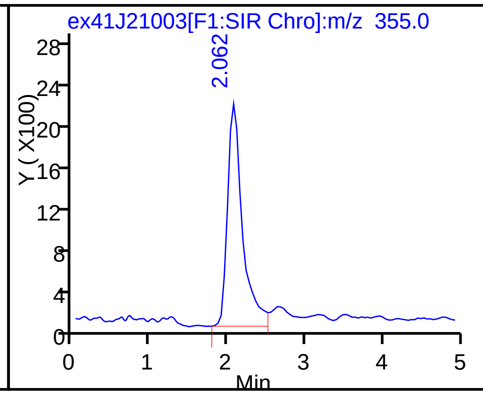
Report Date: 24-Oct-2011 07:32:39　　Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21003.d

Injection Date:	21-Oct-2011 09:28:17	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	1
Operator ID:		Injection Vol:	40.00 ul

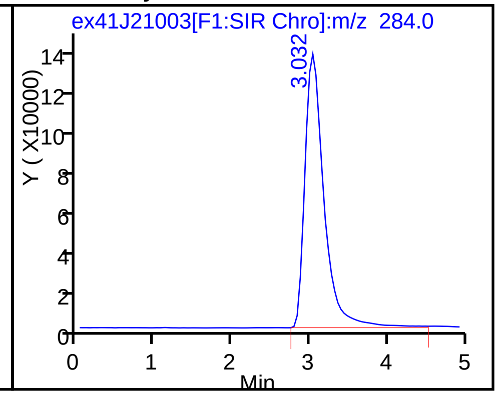
* 1 HMX-13C4



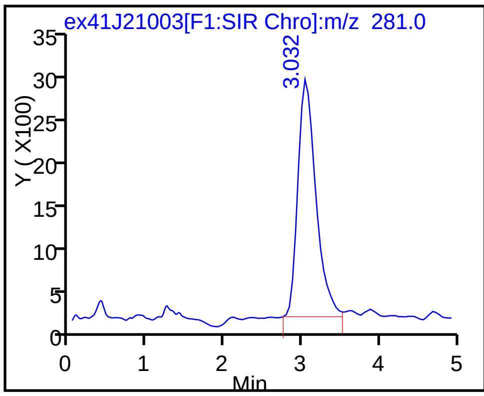
2 HMX



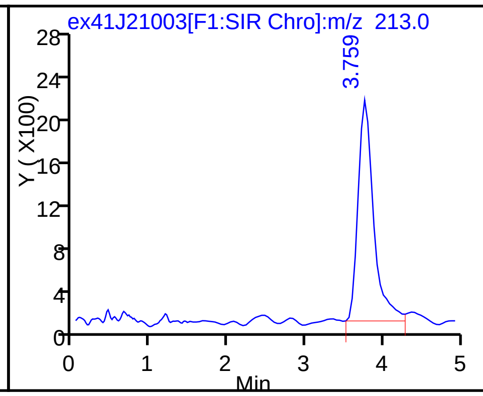
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



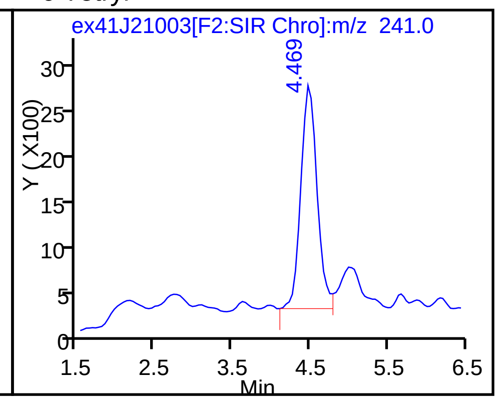
4 RDX



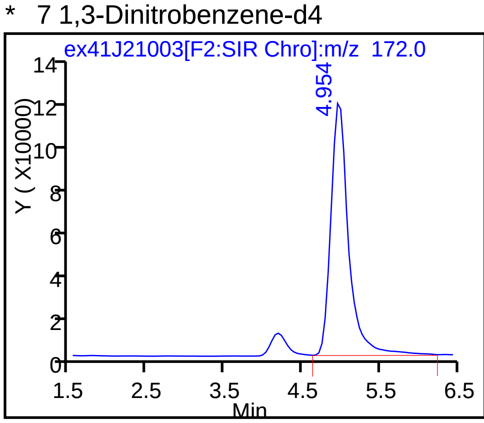
5 1,3,5-Trinitrobenzene



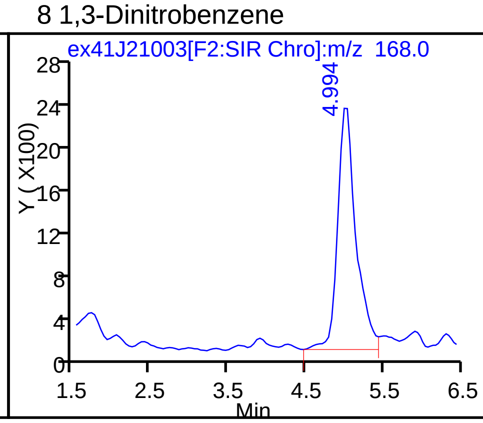
6 Tetryl



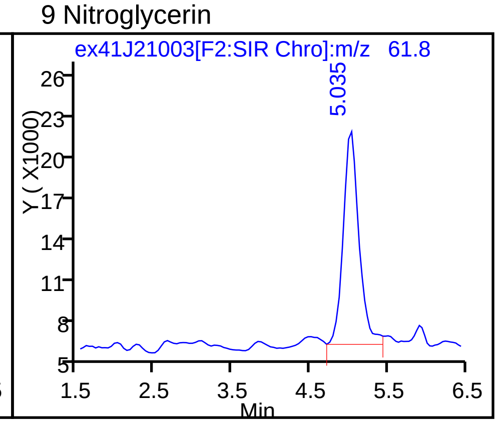
* 7 1,3-Dinitrobenzene-d4



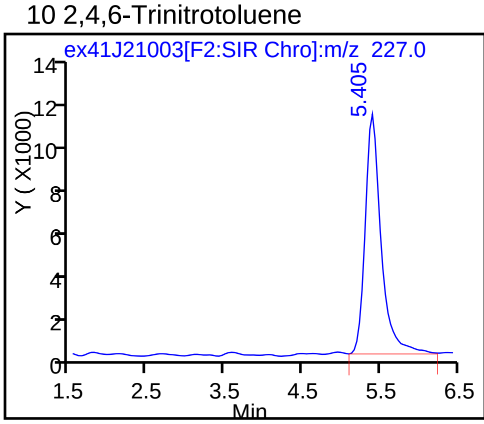
8 1,3-Dinitrobenzene



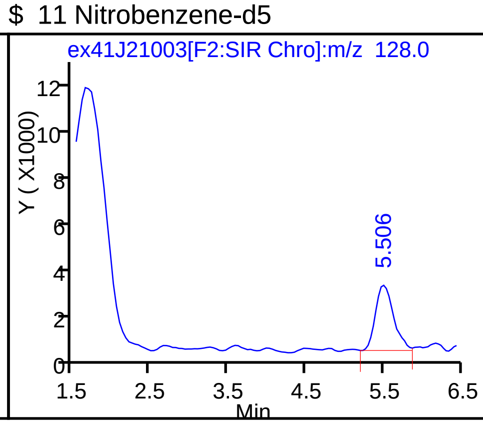
9 Nitroglycerin



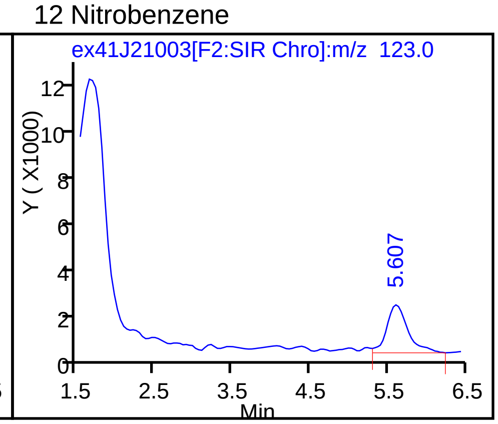
10 2,4,6-Trinitrotoluene



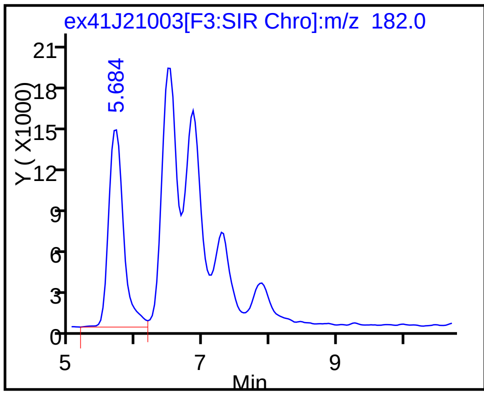
$ 11 Nitrobenzene-d5



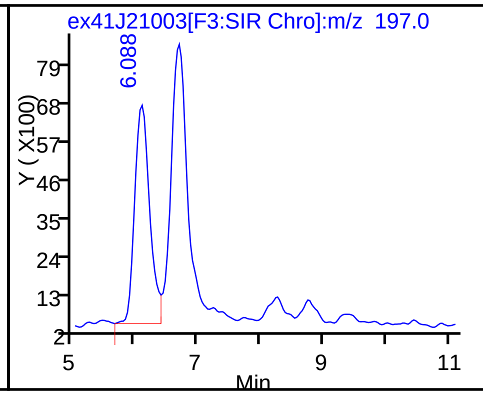
12 Nitrobenzene



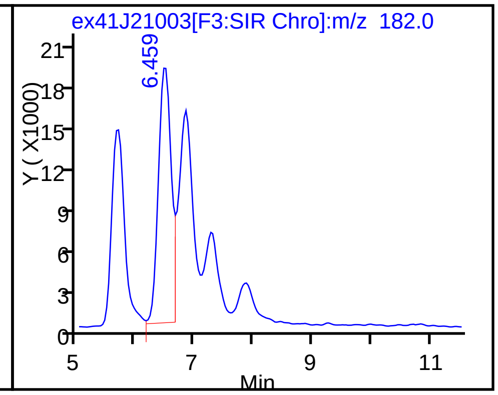
13 3,4-Dinitrotoluene



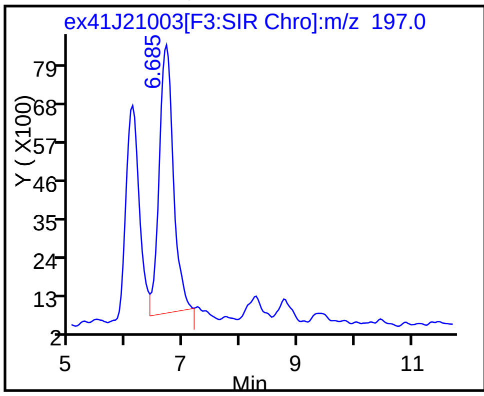
14 4-Amino-2,6-dinitrotoluene



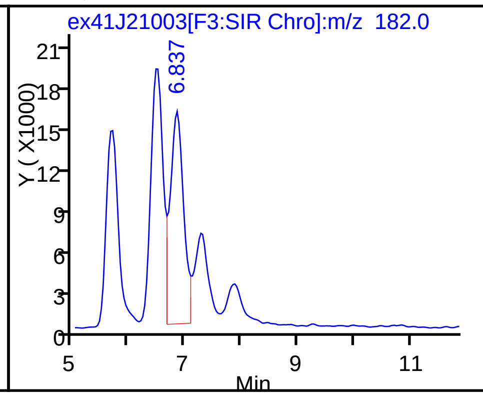
15 2,3-Dinitrotoluene



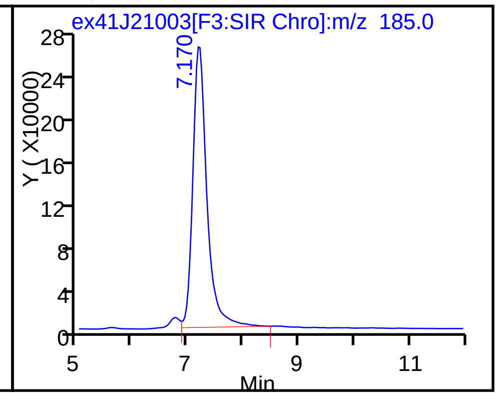
16 2-Amino-4,6-dinitrotoluene



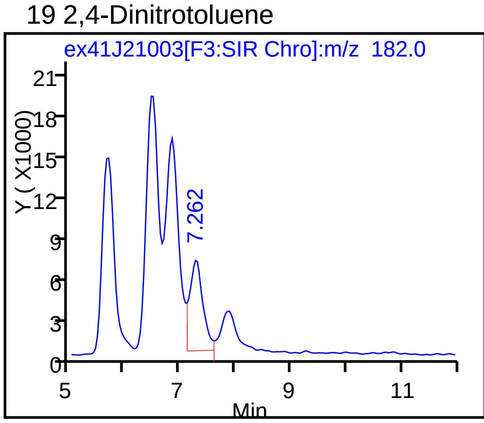
17 2,6-Dinitrotoluene



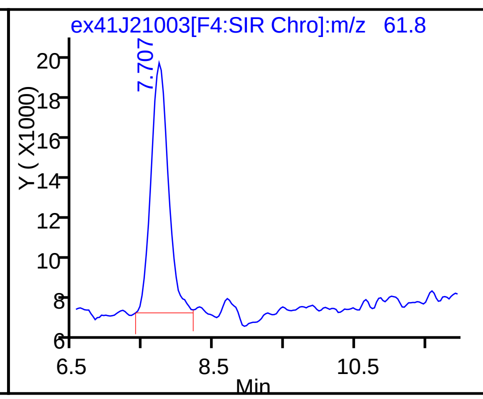
* 18 2,4-dinitrotoluene-d3



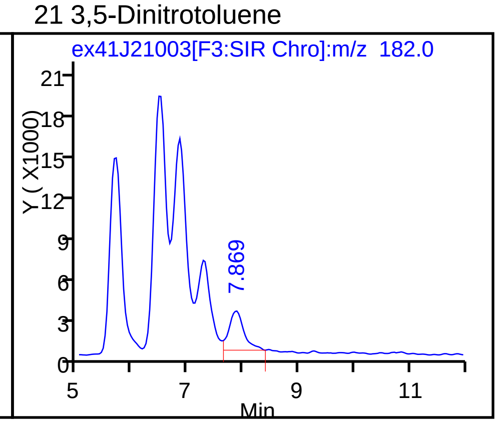
19 2,4-Dinitrotoluene



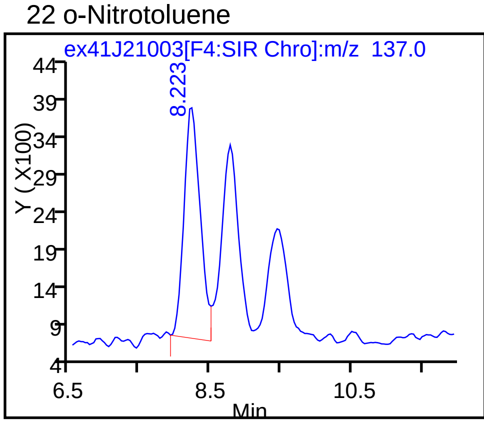
20 PETN



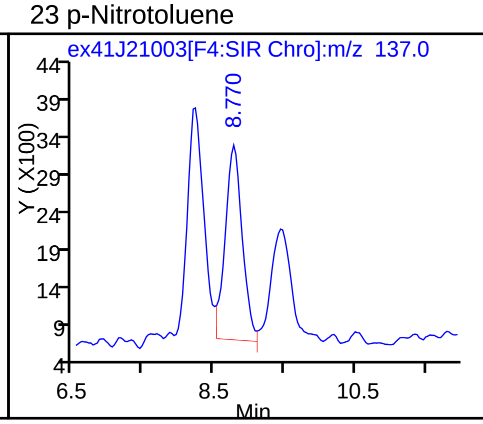
21 3,5-Dinitrotoluene



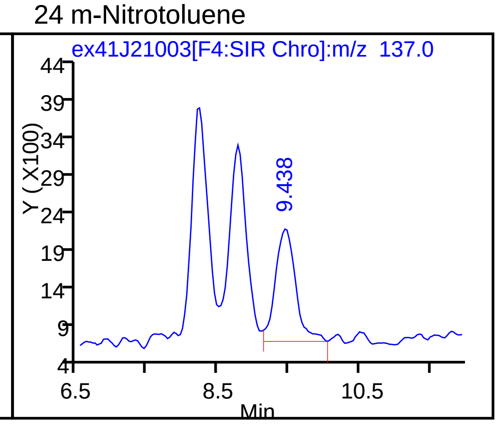
22 o-Nitrotoluene



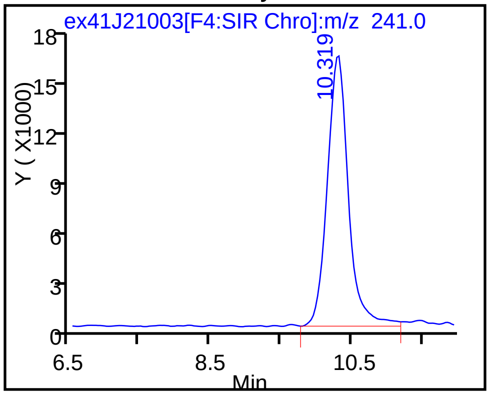
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

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Inject. Date:	21-Oct-2011 09:41:51	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	10/21/11EX1 STD010 ug/L 280-0002644-002		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	3
Lims Batch ID:	92354	Lims Sample ID:	2
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:40	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		632651	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	48678	9.27			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2222875	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	81945	9.44			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	54451	10.2			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	67153	10.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1468321	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.008	60771	9.88			
9 Nitroglycerin										
2	61.8	5.035	5.068	-0.033	1.008	330946	9.73			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.439	-0.001	1.089	266915	10.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.540	0.000	1.109	76901	10.1			
12 Nitrobenzene										
2	123.0	5.641	5.641	0.000	1.129	51651	9.11			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.718	-0.034	0.786	385448	9.36			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	201970	9.83			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.533	6.533	0.000	0.903	505861	9.33			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.929	249495	9.44			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.867	0.030	0.954	457334	9.83			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		4373347	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	220476	10.0			
20 PETN										
4	61.8	7.798	7.768	0.030	1.000	394148	9.74			
21 3,5-Dinitrotoluene										
3	182.0	7.930	7.899	0.031	1.097	103865	10.3			
22 o-Nitrotoluene										
4	137.0	8.284	8.284	0.000	1.000	99217	10.5			
23 p-Nitrotoluene										
4	137.0	8.861	8.831	0.030	1.000	78825	9.78			
24 m-Nitrotoluene										
4	137.0	9.529	9.499	0.030	1.000	46178	8.87			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.379	10.379	0.000	1.000	625675	10.1			

Report Date: 24-Oct-2011 07:32:40 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21004.d

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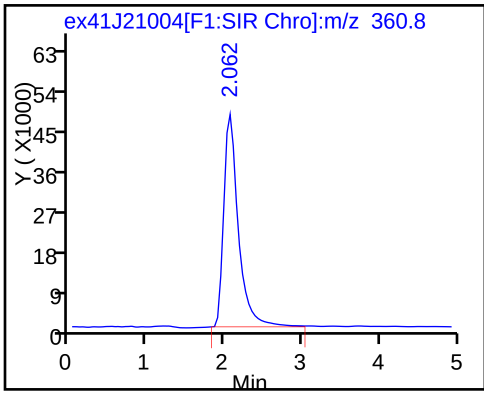
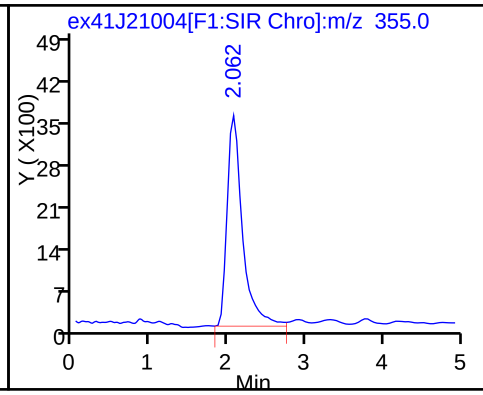
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	2
Operator ID:		Injection Vol:	40.00 ul

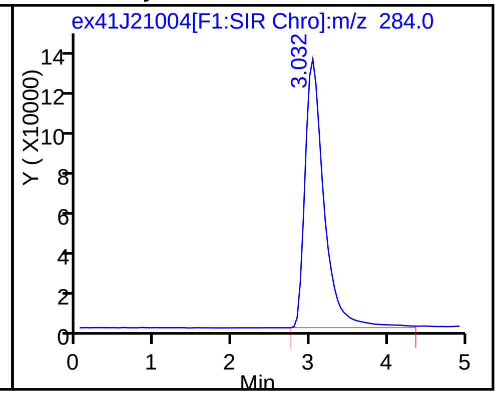
* 1 HMX-13C4



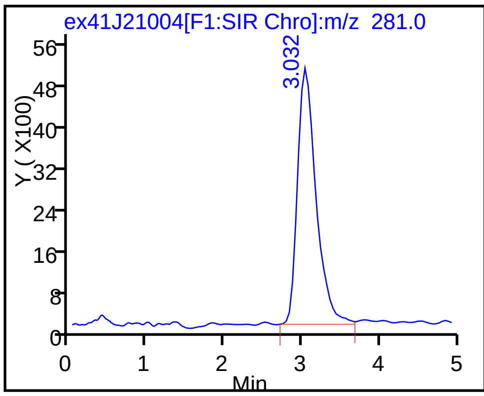
2 HMX



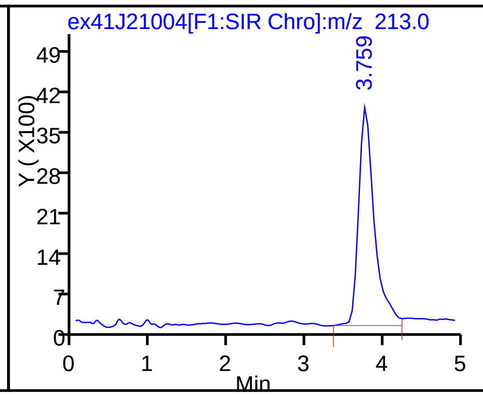
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



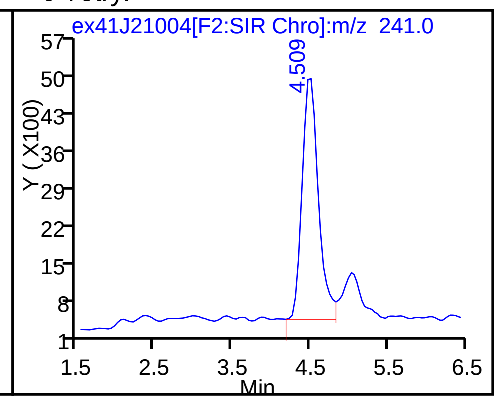
4 RDX



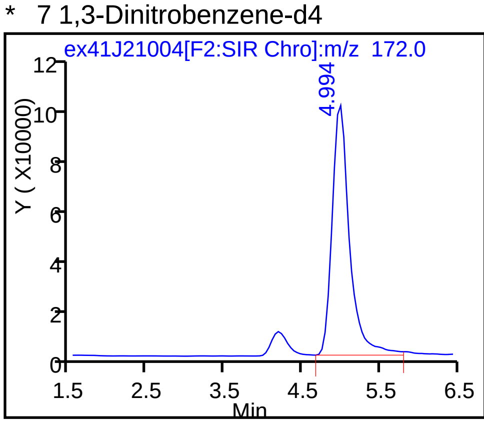
5 1,3,5-Trinitrobenzene



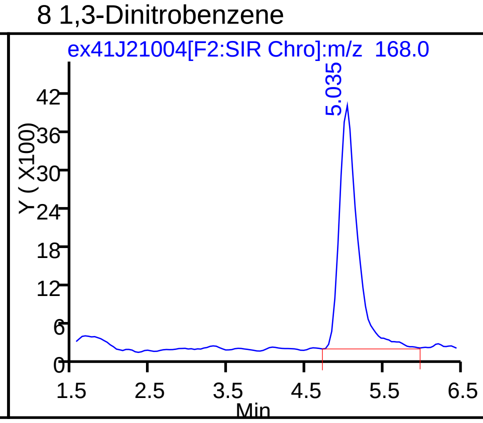
6 Tetryl



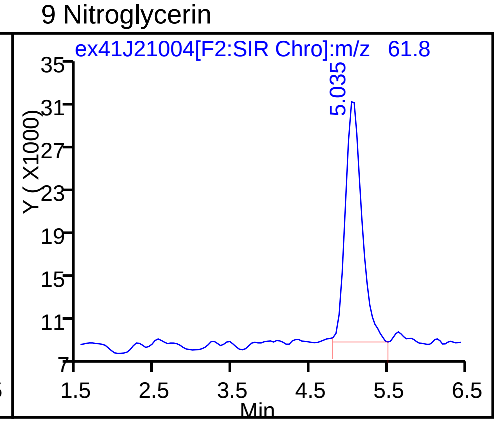
* 7 1,3-Dinitrobenzene-d4



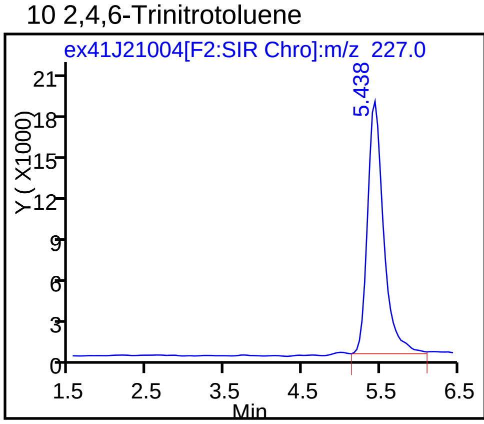
8 1,3-Dinitrobenzene



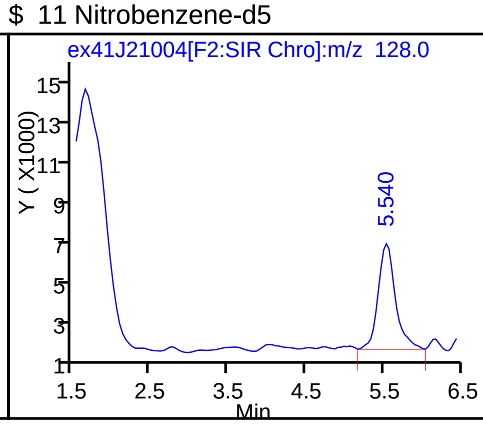
9 Nitroglycerin



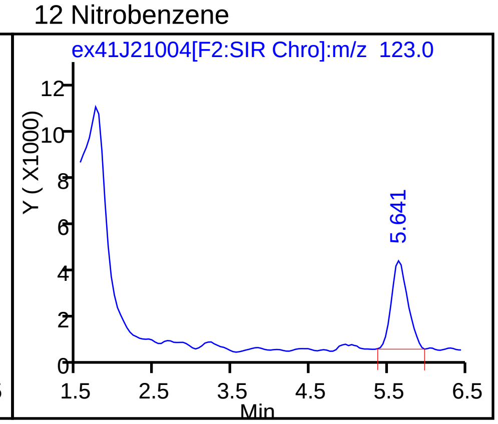
10 2,4,6-Trinitrotoluene



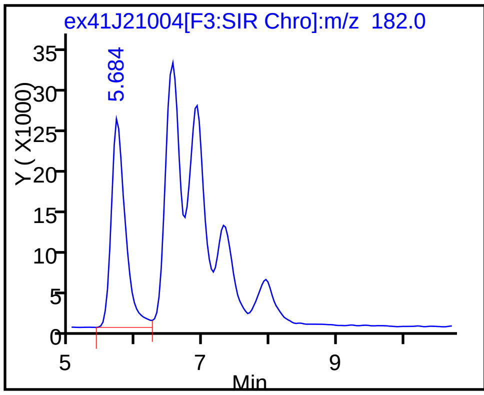
$ 11 Nitrobenzene-d5



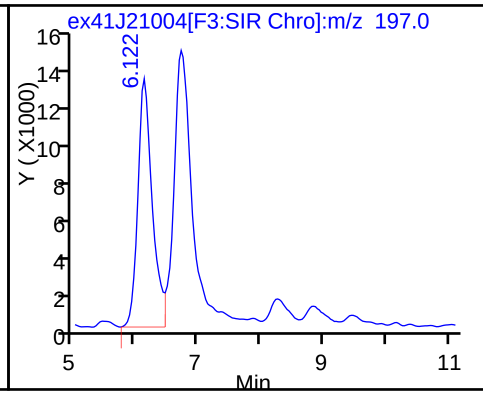
12 Nitrobenzene



13 3,4-Dinitrotoluene



14 4-Amino-2,6-dinitrotoluene



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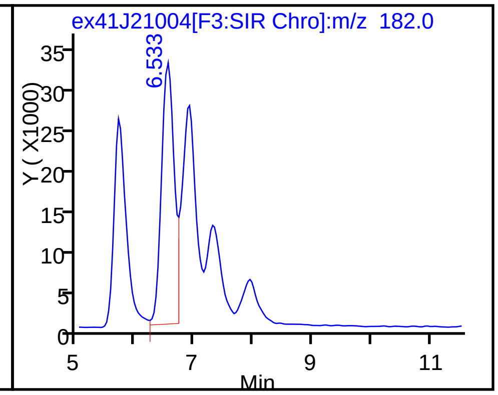
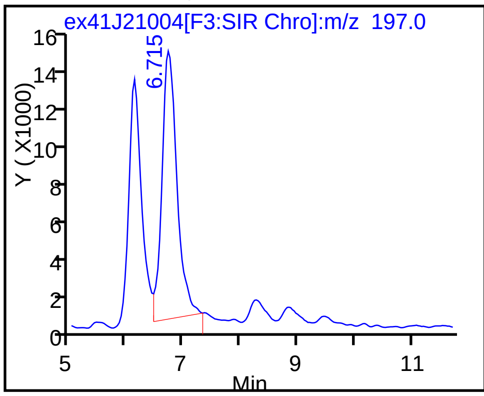
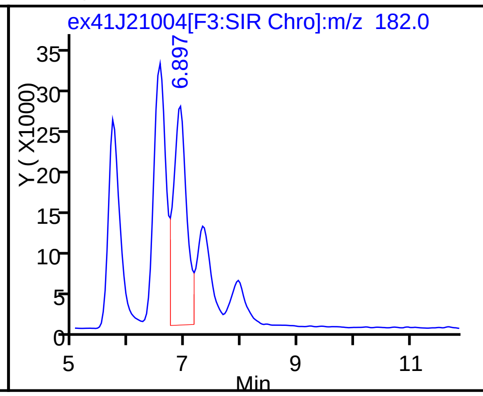


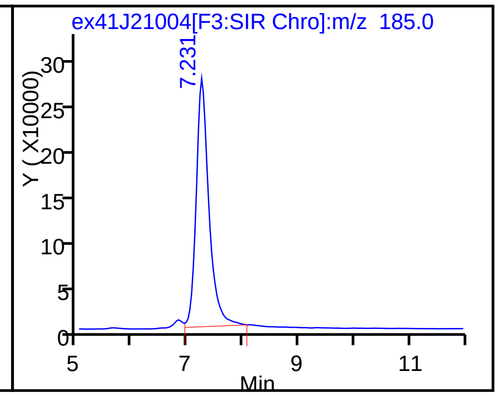
16 2-Amino-4,6-dinitrotoluene



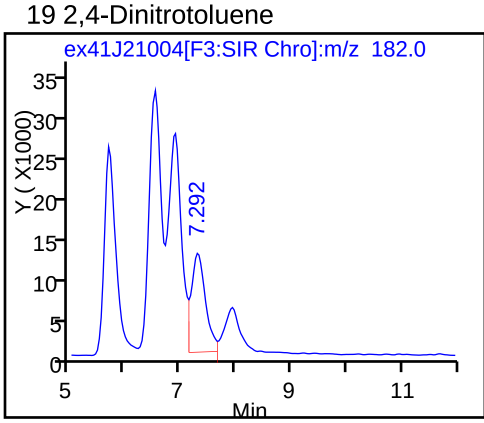
17 2,6-Dinitrotoluene



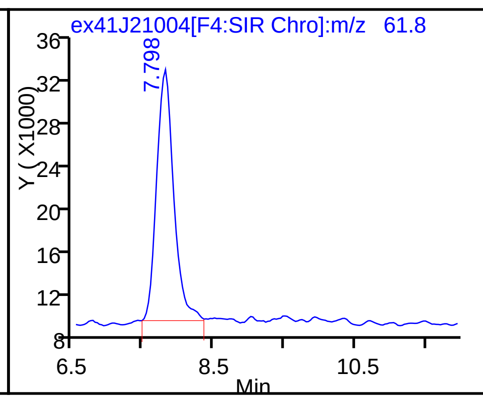
* 18 2,4-dinitrotoluene-d3



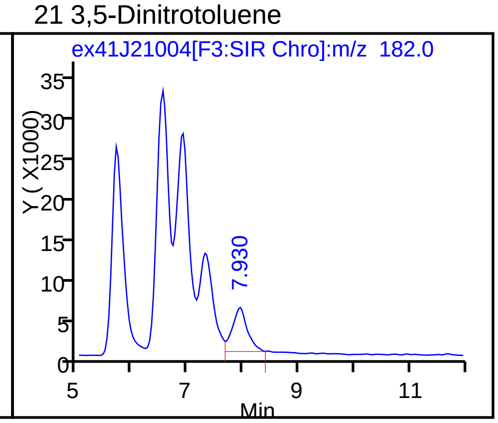
19 2,4-Dinitrotoluene



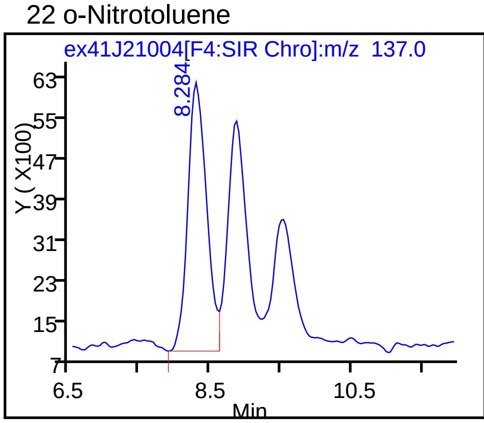
20 PETN



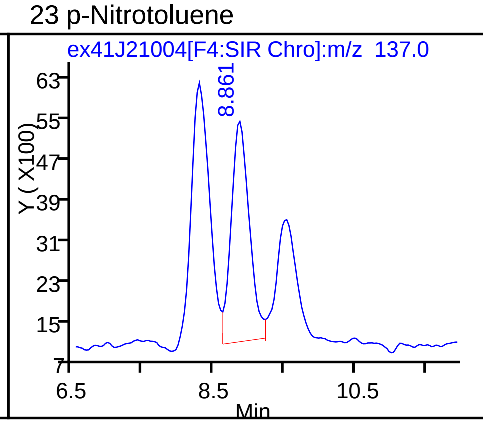
21 3,5-Dinitrotoluene



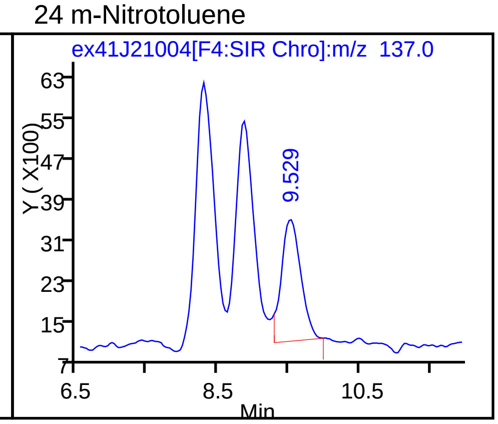
22 o-Nitrotoluene



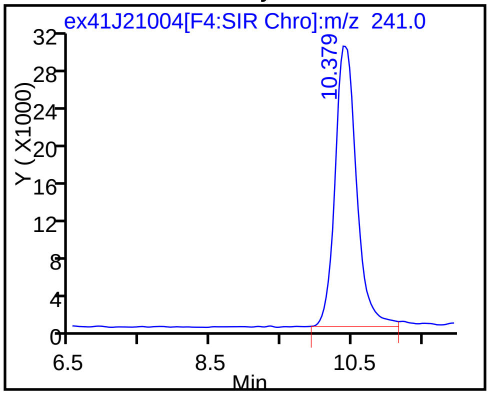
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21005.d
Lims ID: STD025 Client ID:
Inject. Date: 21-Oct-2011 09:55:25 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 10/21/11EX1 STD025 ug/L 280-0002644-003
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 4
Lims Batch ID: 92354 Lims Sample ID: 3
Sublist: chrom-8321exp4-25*sub3
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m
Last Update: 24-Oct-2011 07:32:41 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

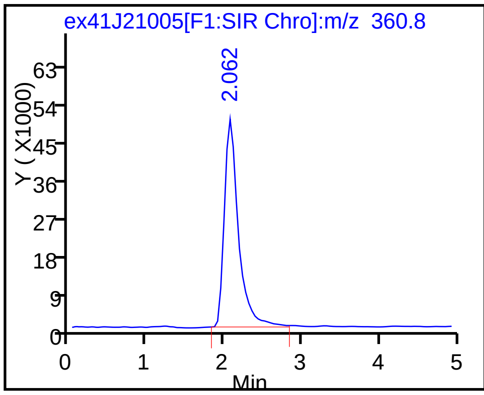
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		639179	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	138769	24.8			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2087714	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	205524	25.6			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.759	0.040	1.000	159749	23.4			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	176105	21.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1610812	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.035	0.033	1.015	175773	25.4			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	957602	23.8			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.439	-0.001	1.089	698359	23.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.540	-0.001	1.109	232688	28.9			
12 Nitrobenzene										
2	123.0	5.674	5.641	0.033	1.136	153111	24.3			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.784	1022004	25.5			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.122	0.034	0.844	496765	24.3			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.563	6.533	0.030	0.900	1344894	25.5			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.745	6.715	0.030	0.925	692097	27.1			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.867	0.030	0.946	1144280	24.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.292	7.231	0.061		4315808	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.322	7.292	0.030	1.004	566101	25.8			
20 PETN										
4	61.8	7.828	7.768	0.060	1.000	1026023	28.9			
21 3,5-Dinitrotoluene										
3	182.0	7.930	7.899	0.031	1.087	233350	21.8			
22 o-Nitrotoluene										
4	137.0	8.345	8.284	0.061	1.000	237241	25.7			
23 p-Nitrotoluene										
4	137.0	8.891	8.831	0.060	1.000	211017	26.0			
24 m-Nitrotoluene										
4	137.0	9.559	9.499	0.060	1.000	132243	26.0			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.440	10.379	0.061	1.000	1866601	27.1			

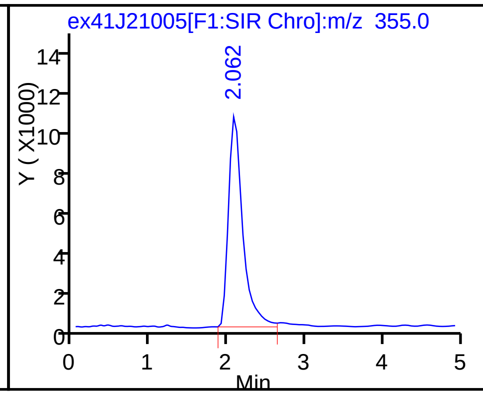
Report Date: 24-Oct-2011 07:32:41 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21005.d

Injection Date:	21-Oct-2011 09:55:25	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	3
Operator ID:		Injection Vol:	40.00 ul

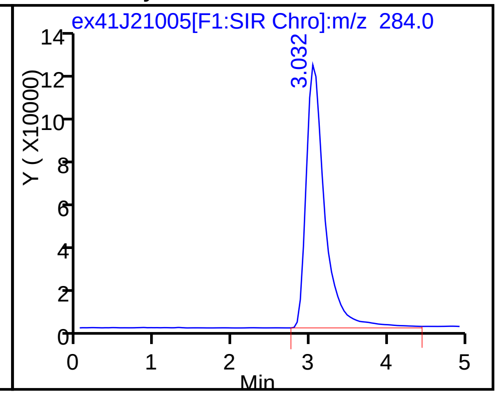
* 1 HMX-13C4



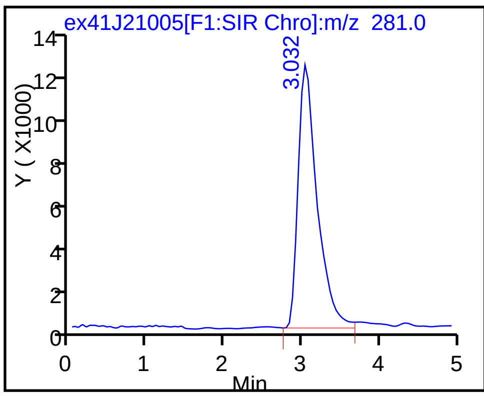
2 HMX



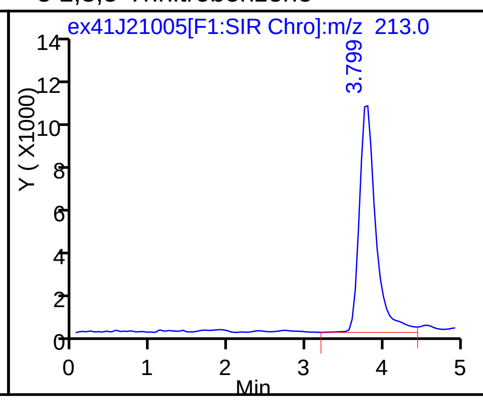
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



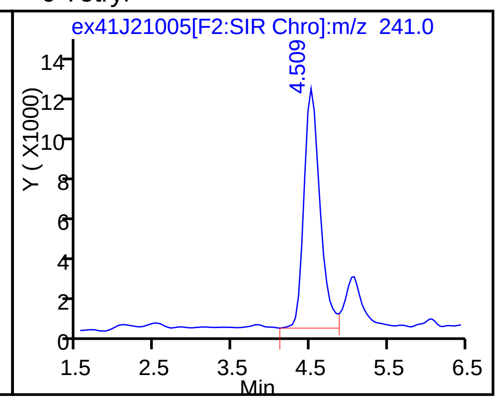
4 RDX



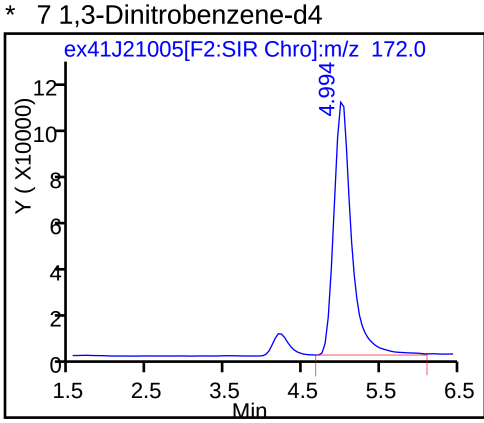
5 1,3,5-Trinitrobenzene



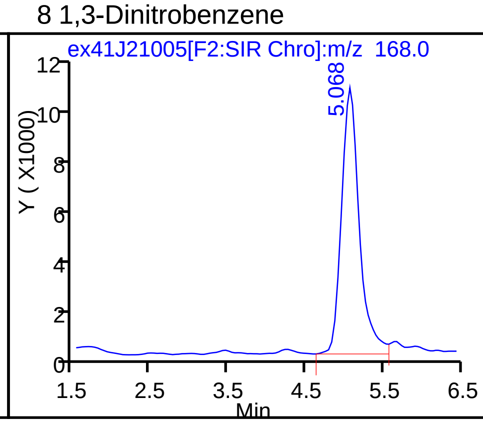
6 Tetryl



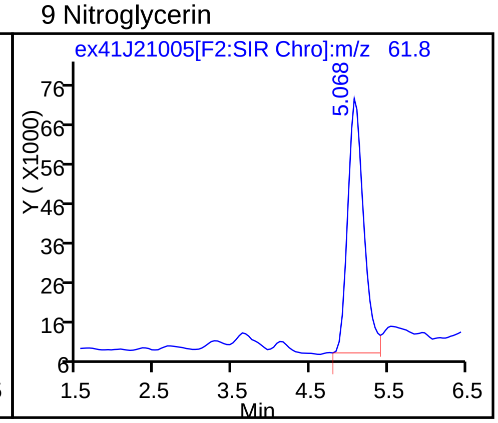
* 7 1,3-Dinitrobenzene-d4



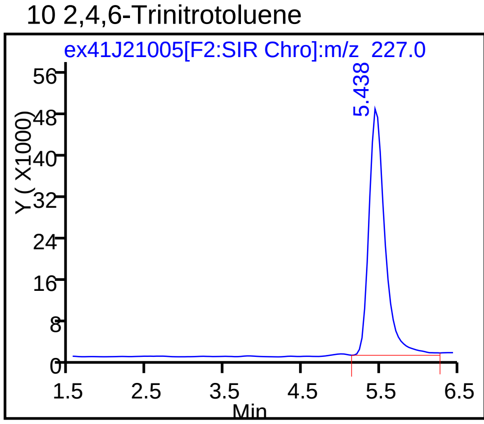
8 1,3-Dinitrobenzene



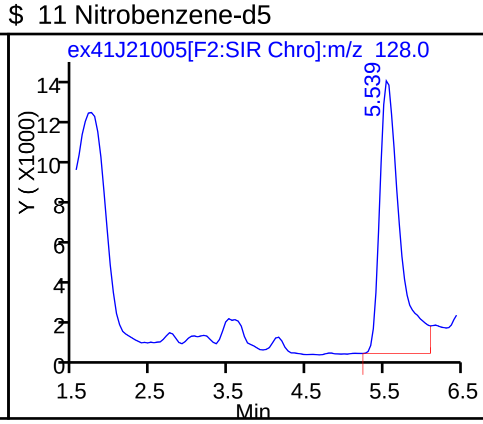
9 Nitroglycerin



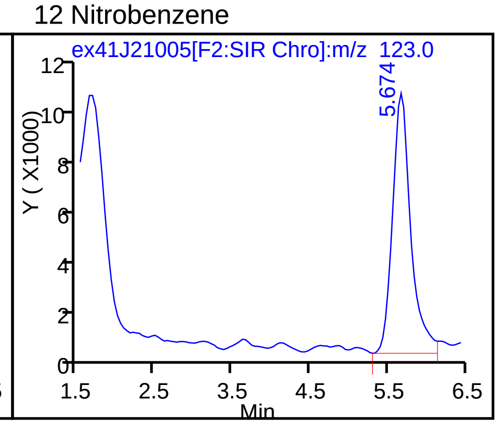
10 2,4,6-Trinitrotoluene



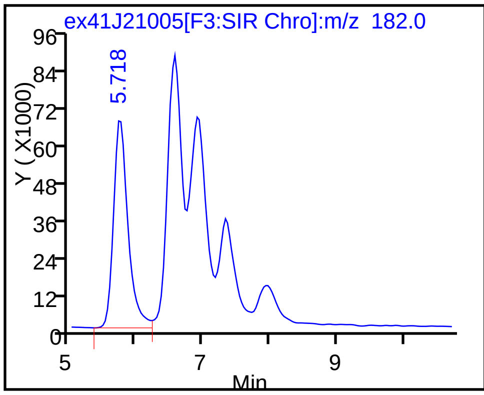
$ 11 Nitrobenzene-d5



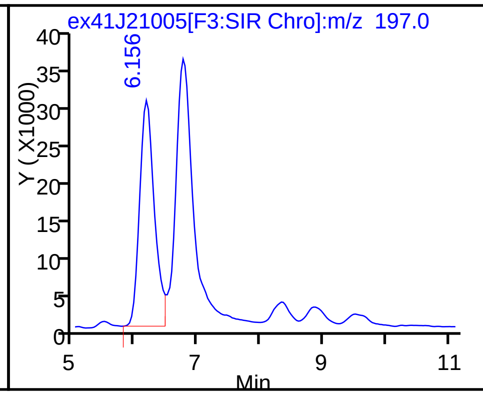
12 Nitrobenzene



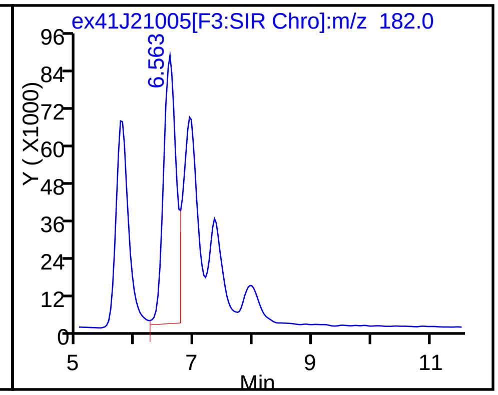
13 3,4-Dinitrotoluene



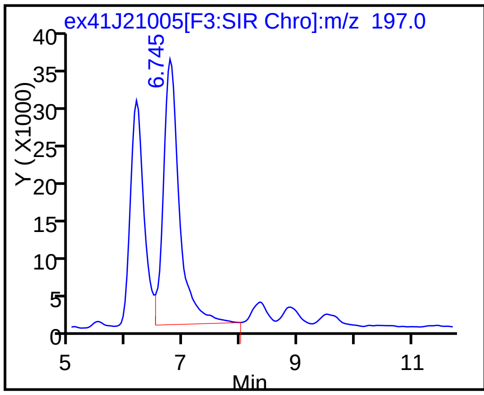
14 4-Amino-2,6-dinitrotoluene



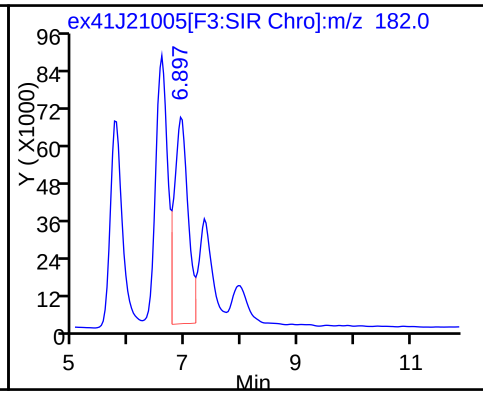
15 2,3-Dinitrotoluene



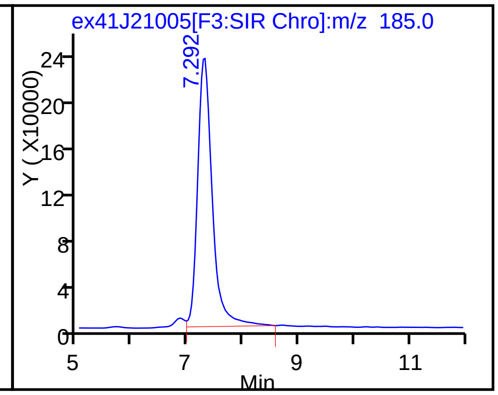
16 2-Amino-4,6-dinitrotoluene



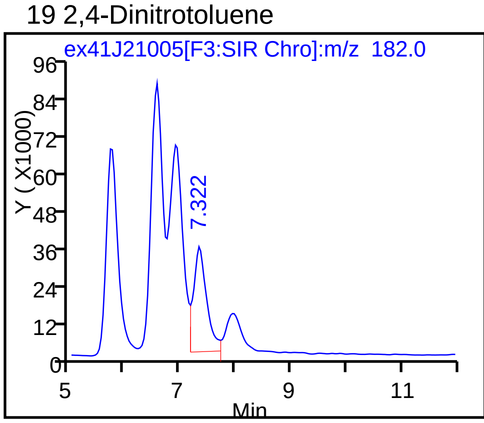
17 2,6-Dinitrotoluene



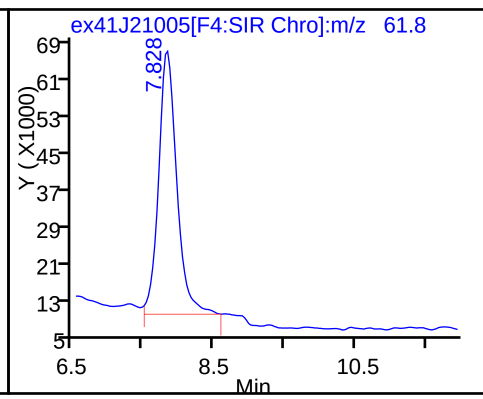
* 18 2,4-dinitrotoluene-d3



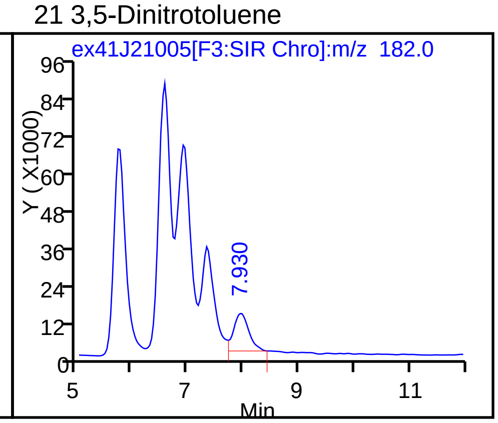
19 2,4-Dinitrotoluene



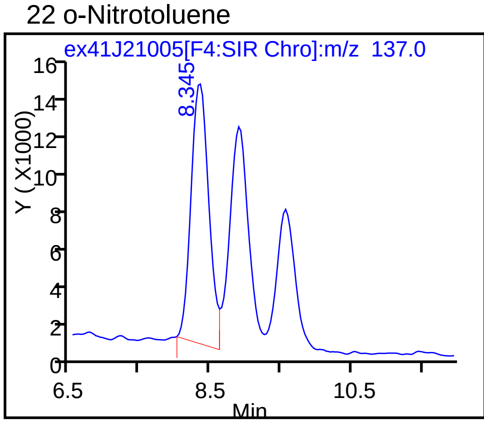
20 PETN



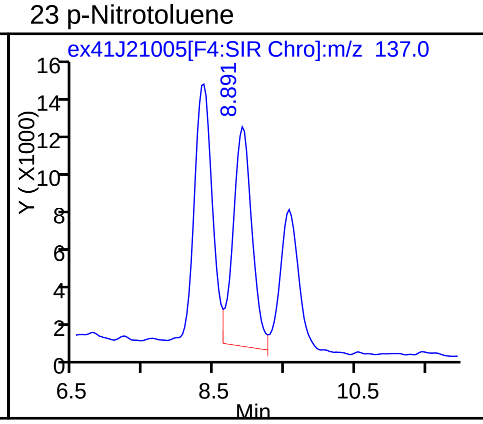
21 3,5-Dinitrotoluene



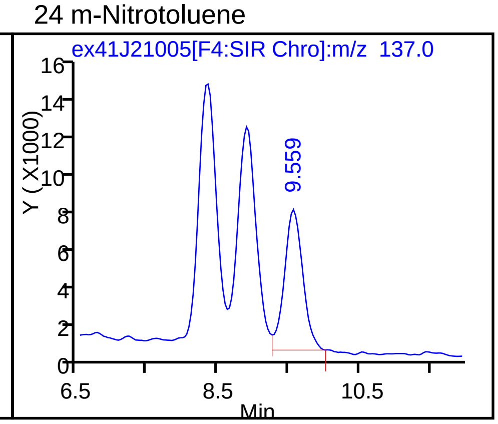
22 o-Nitrotoluene



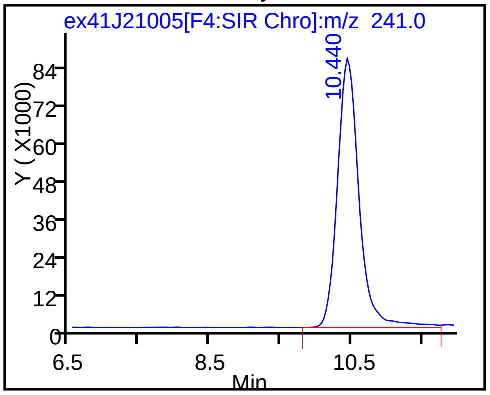
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21006.d		
Lims ID:	STD050	Client ID:	
Inject. Date:	21-Oct-2011 10:08:59	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	10/21/11EX1 STD050 ug/L 280-0002644-004		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	92354	Lims Sample ID:	4
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:42	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

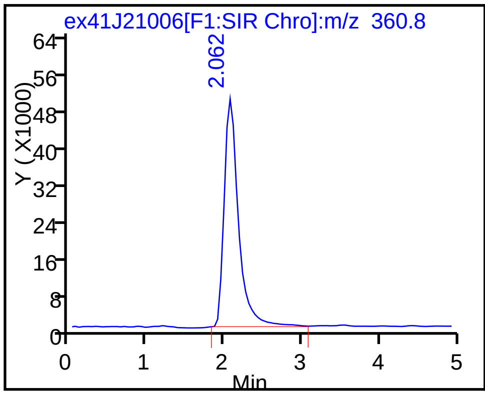
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		649153	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	268387	46.5			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2286407	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	462065	52.9			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	325370	41.0			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	391461	42.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1788911	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.068	0.000	1.015	364698	47.1			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	2063587	45.1			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.089	1592359	46.8			
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.540	0.000	1.109	388797	43.7			
12 Nitrobenzene										
2	123.0	5.674	5.674	0.000	1.136	317143	45.2			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.787	2459914	52.4			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.156	0.000	0.848	1213347	50.3			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.563	6.563	0.000	0.904	3304020	53.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.745	6.745	0.000	0.929	1635187	54.7			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.897	0.000	0.950	2749675	50.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.261	7.261	0.000		5077733	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.353	7.353	0.000	1.013	1368284	52.9			
20 PETN										
4	61.8	7.828	7.828	0.000	1.000	2130938	52.5			
21 3,5-Dinitrotoluene										
3	182.0	7.960	7.960	0.000	1.096	611884	47.0			
22 o-Nitrotoluene										
4	137.0	8.345	8.345	0.000	1.000	522289	48.2			
23 p-Nitrotoluene										
4	137.0	8.891	8.891	0.000	1.000	461884	48.1			
24 m-Nitrotoluene										
4	137.0	9.559	9.559	0.000	1.000	294700	49.5			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.440	10.440	0.000	1.000	3560004	46.5			

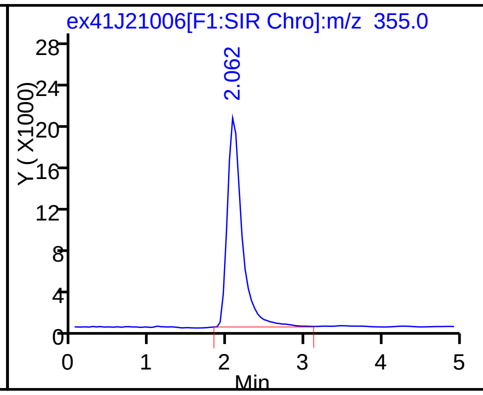
Report Date: 24-Oct-2011 07:32:42 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21006.d

Injection Date:	21-Oct-2011 10:08:59	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	4
Operator ID:		Injection Vol:	40.00 ul

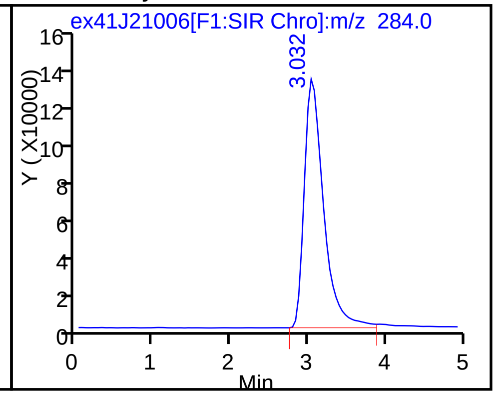
* 1 HMX-13C4



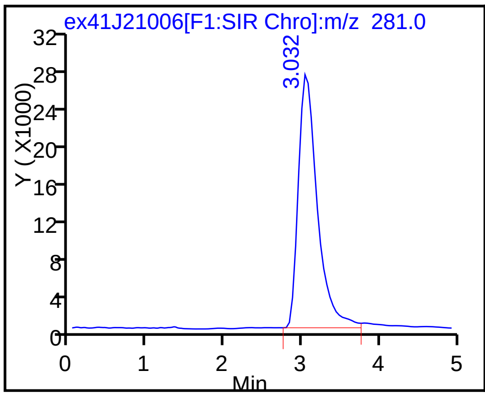
2 HMX



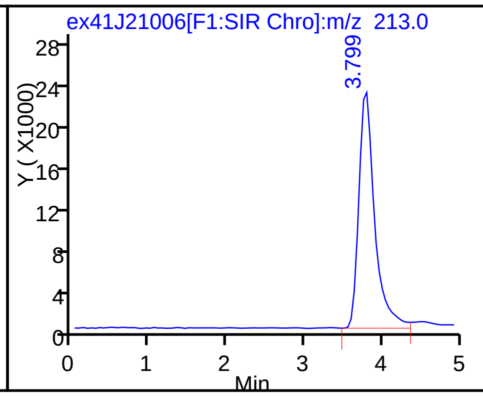
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



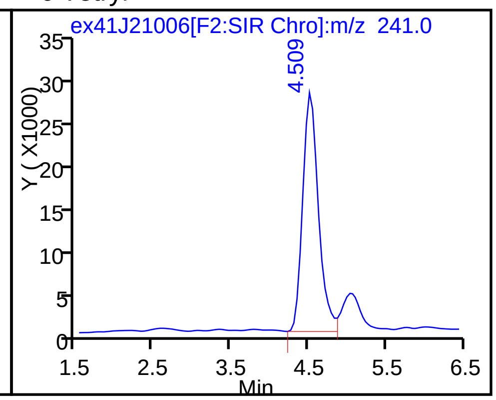
4 RDX



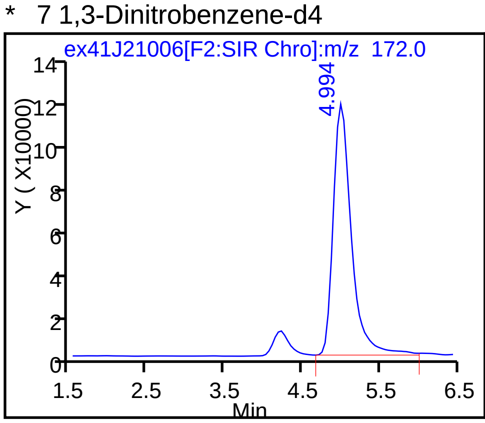
5 1,3,5-Trinitrobenzene



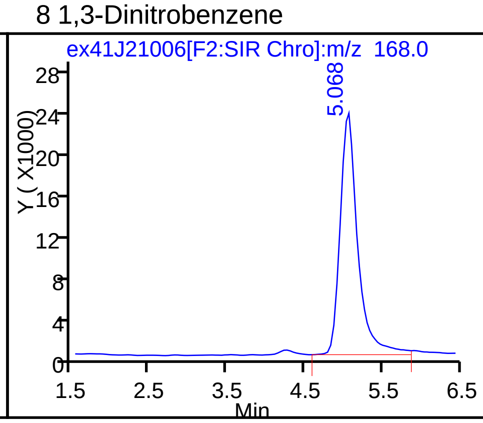
6 Tetryl



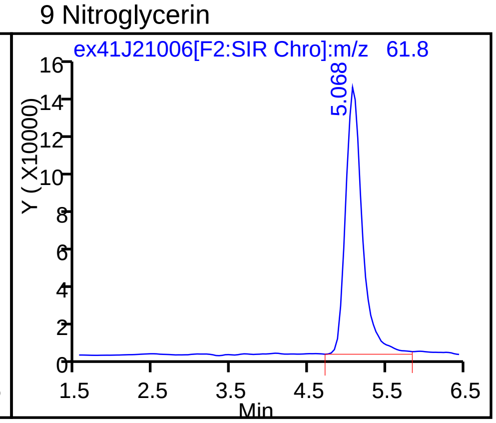
* 7 1,3-Dinitrobenzene-d4



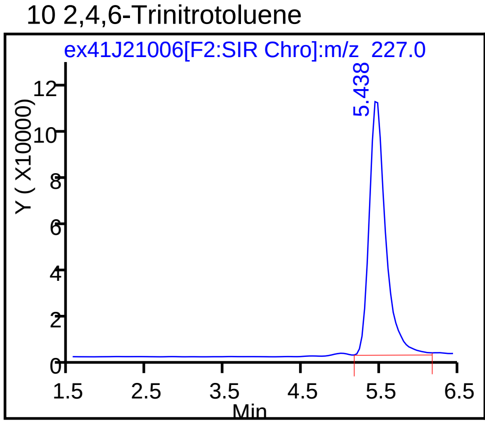
8 1,3-Dinitrobenzene



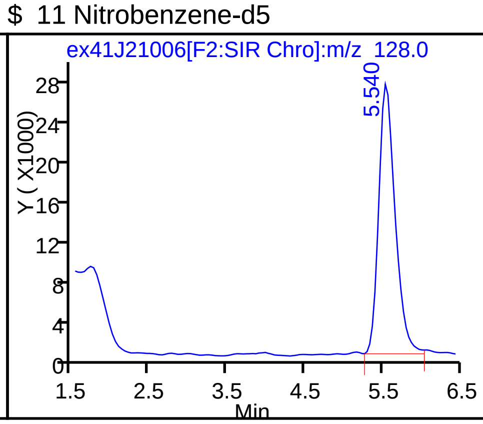
9 Nitroglycerin



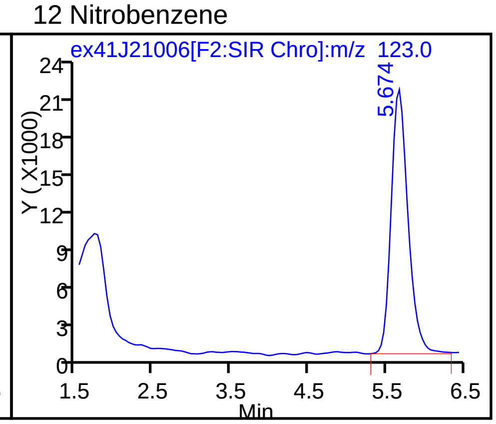
10 2,4,6-Trinitrotoluene



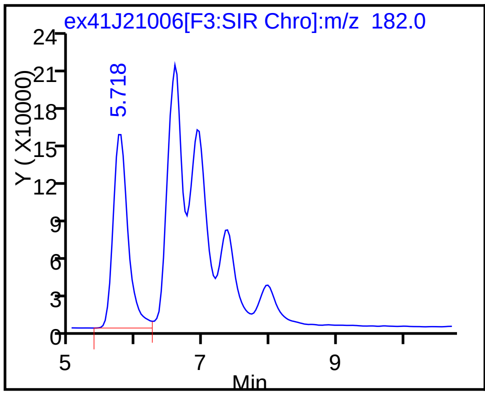
$ 11 Nitrobenzene-d5



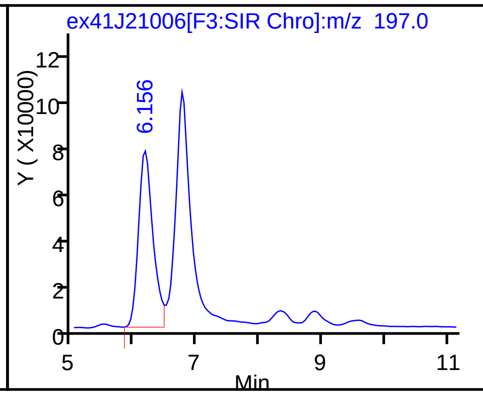
12 Nitrobenzene



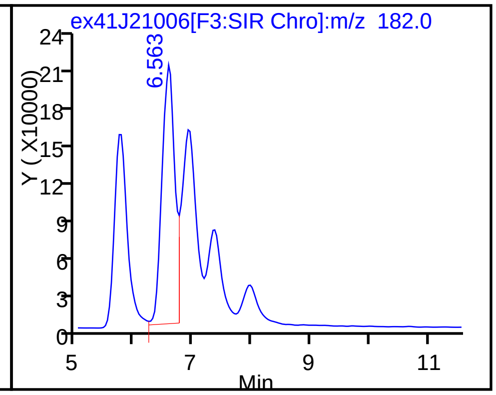
13 3,4-Dinitrotoluene



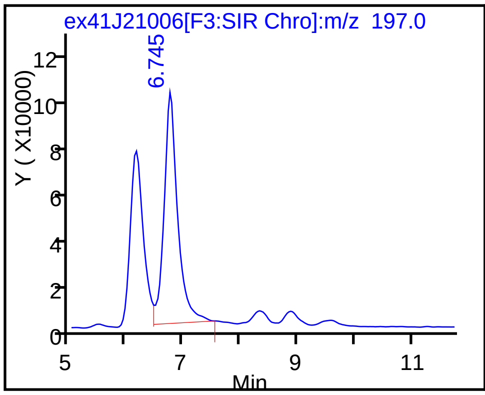
14 4-Amino-2,6-dinitrotoluene



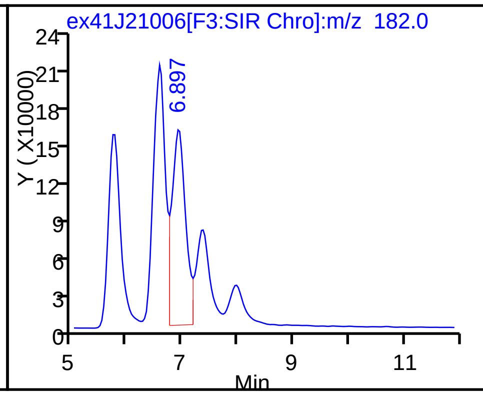
15 2,3-Dinitrotoluene



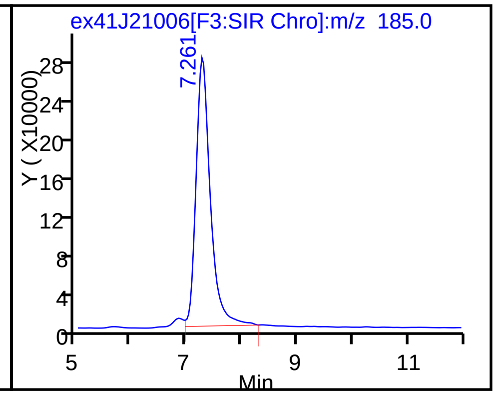
16 2-Amino-4,6-dinitrotoluene



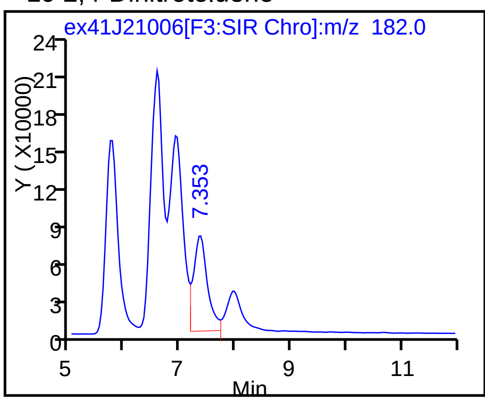
17 2,6-Dinitrotoluene



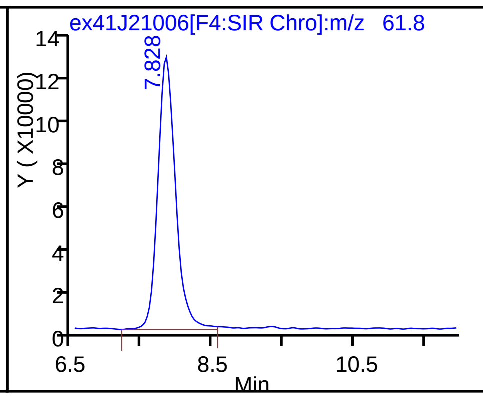
* 18 2,4-dinitrotoluene-d3



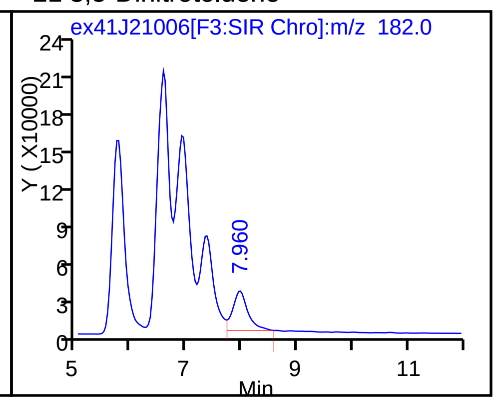
19 2,4-Dinitrotoluene



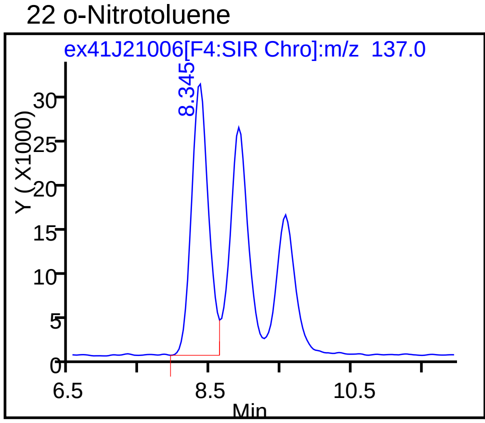
20 PETN



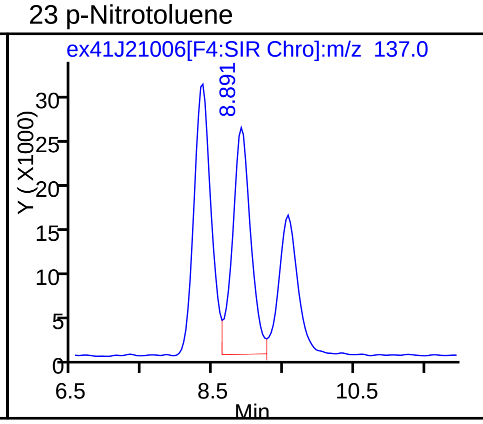
21 3,5-Dinitrotoluene



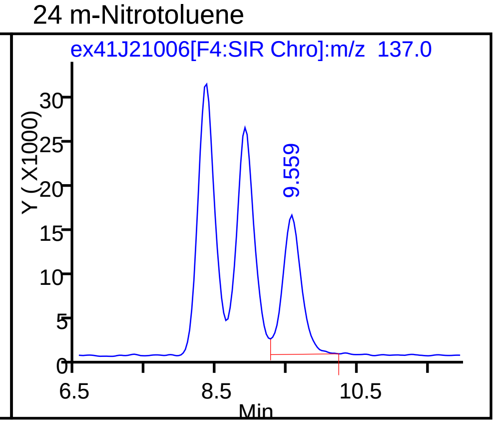
22 o-Nitrotoluene



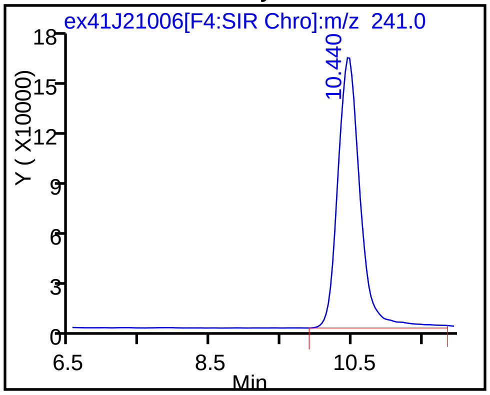
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21007.d		
Lims ID:	STD100	Client ID:	
Inject. Date:	21-Oct-2011 10:22:50	Dil. Factor:	1.0000
Sample Type:	ICISAV	Calib Level:	5
Sample ID:	10/21/11EX1 STD100 ug/L 280-0002644-005		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	92354	Lims Sample ID:	5
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:44	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

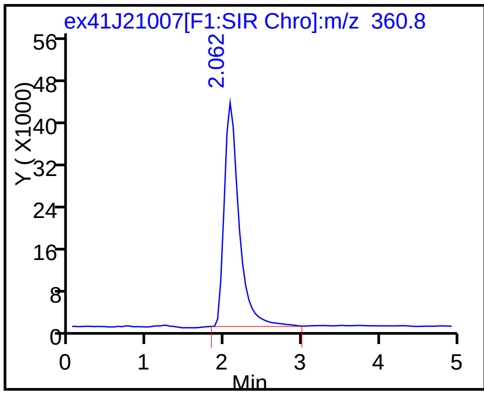
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		573478	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	516486	100.4			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2201322	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	847609	101.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	671081	98.0			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	838121	105.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1489968	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.008	687743	106.2			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	3934172	101.7			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.439	0.000	1.089	3111149	109.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.540	0.000	1.109	737235	100.3			
12 Nitrobenzene										
2	123.0	5.641	5.641	0.000	1.129	593466	101.4			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.787	4418559	98.1			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.843	2352065	101.3			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.533	6.533	0.000	0.900	5891593	99.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.925	2662321	92.9			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.897	0.000	0.950	4901609	94.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.261	7.261	0.000		4882519	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.322	7.322	0.000	1.008	2408469	96.7			
20 PETN										
4	61.8	7.798	7.798	0.000	1.000	3911608	102.1			
21 3,5-Dinitrotoluene										
3	182.0	7.930	7.930	0.000	1.092	1246969	98.2			
22 o-Nitrotoluene										
4	137.0	8.314	8.314	0.000	1.000	991158	95.4			
23 p-Nitrotoluene										
4	137.0	8.861	8.861	0.000	1.000	877872	94.8			
24 m-Nitrotoluene										
4	137.0	9.529	9.529	0.000	1.000	549697	96.1			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.440	10.440	0.000	1.000	6852029	107.4			

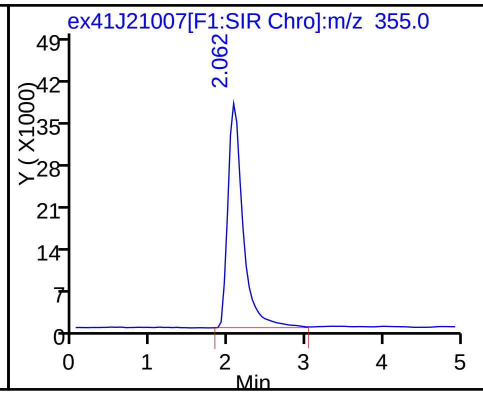
Report Date: 24-Oct-2011 07:32:44 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21007.d

Injection Date:	21-Oct-2011 10:22:50	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	5
Operator ID:		Injection Vol:	40.00 ul

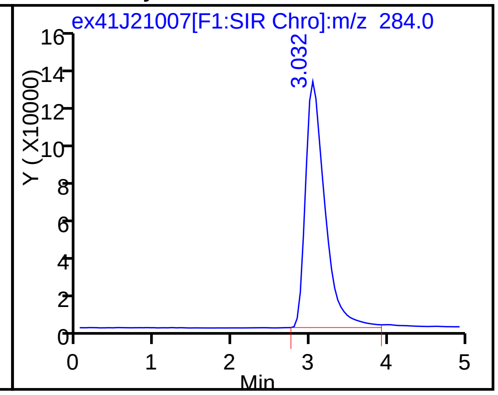
* 1 HMX-13C4



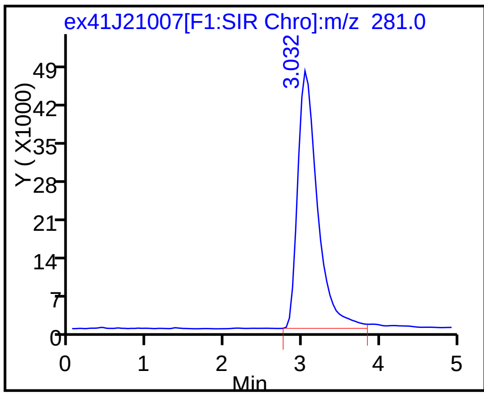
2 HMX



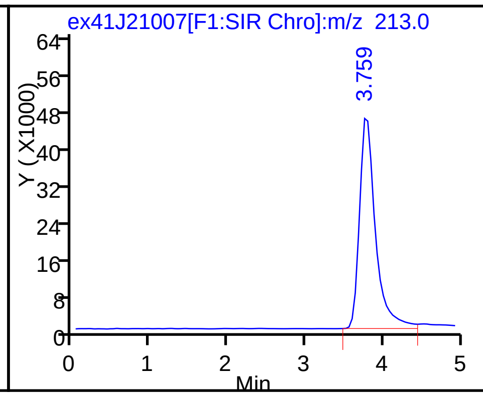
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



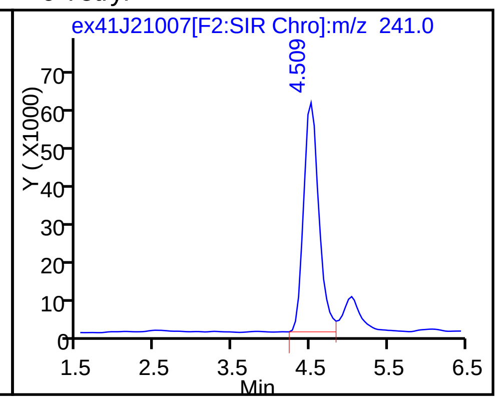
4 RDX



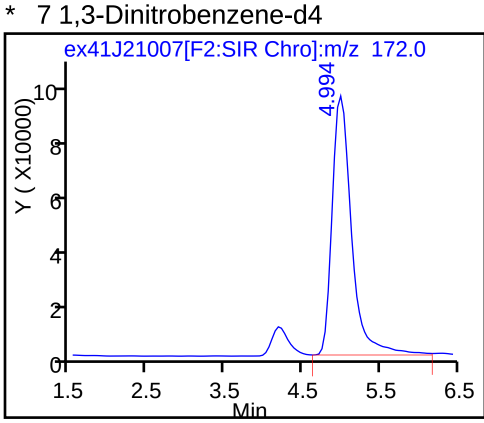
5 1,3,5-Trinitrobenzene



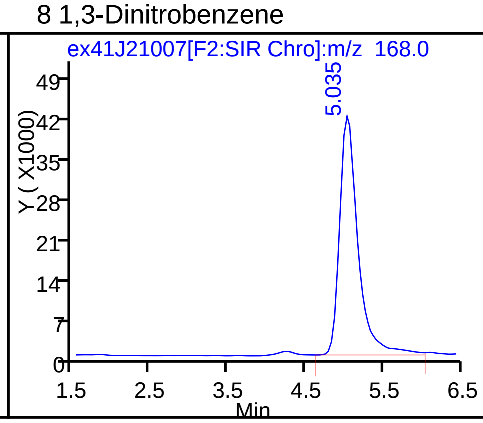
6 Tetryl



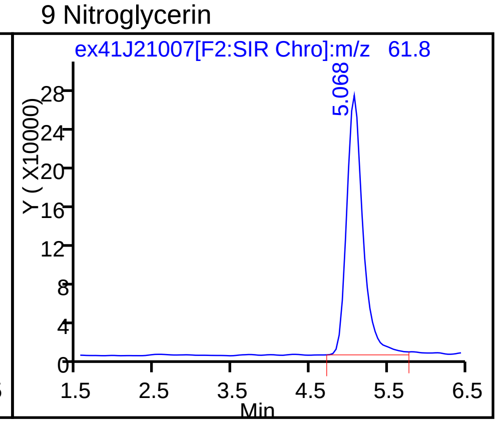
* 7 1,3-Dinitrobenzene-d4



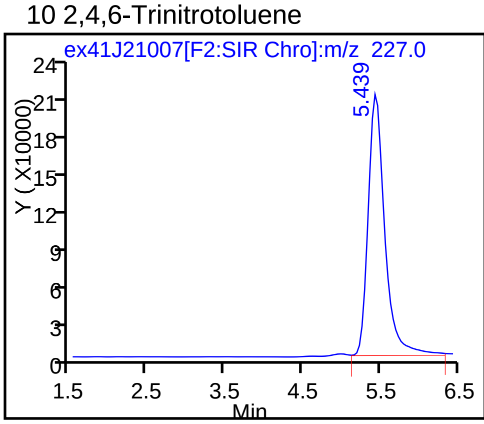
8 1,3-Dinitrobenzene



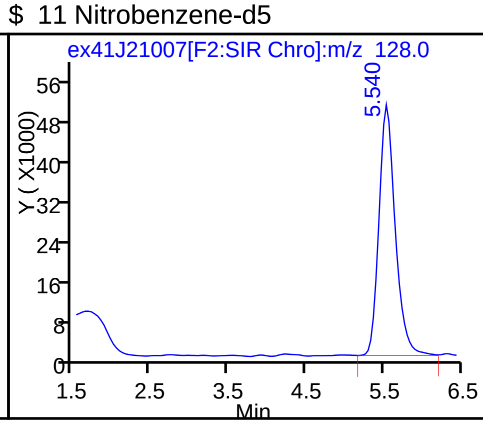
9 Nitroglycerin



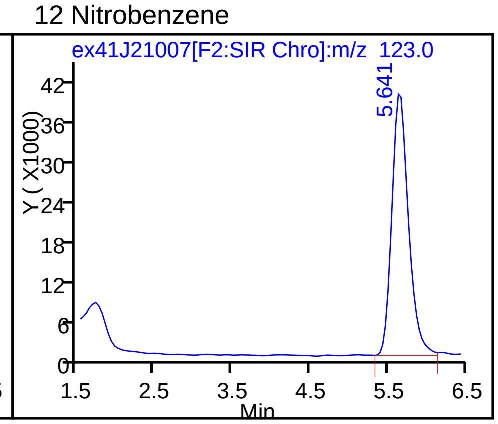
10 2,4,6-Trinitrotoluene



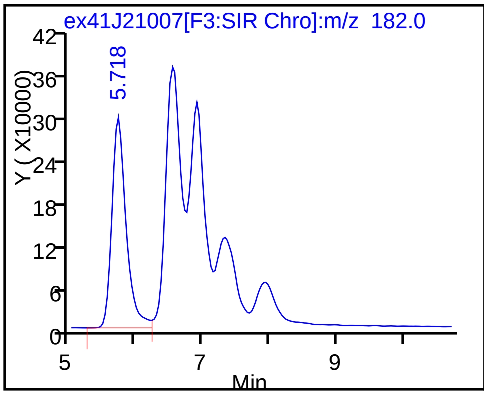
$ 11 Nitrobenzene-d5



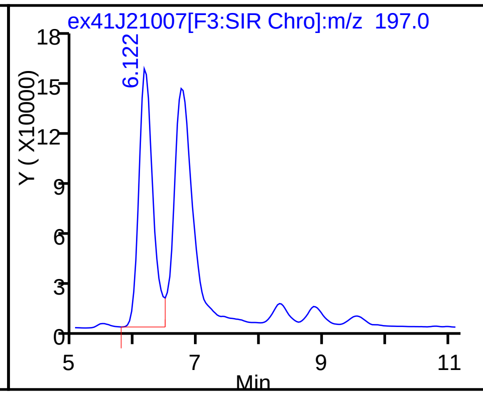
12 Nitrobenzene



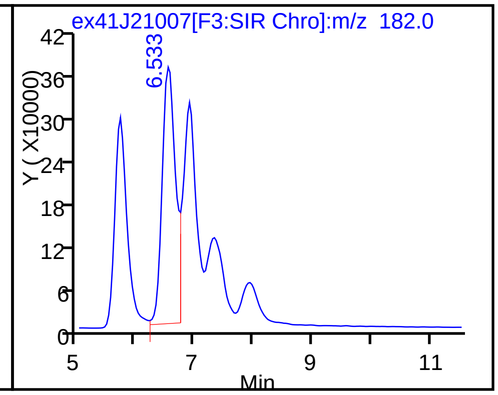
13 3,4-Dinitrotoluene



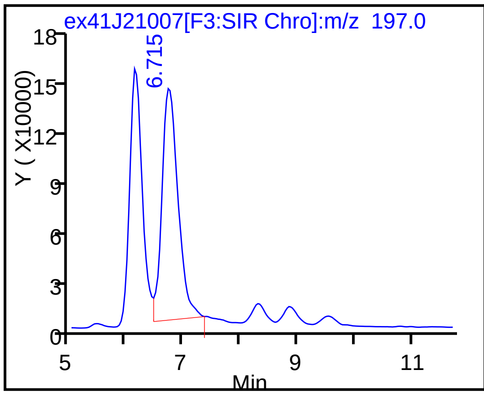
14 4-Amino-2,6-dinitrotoluene



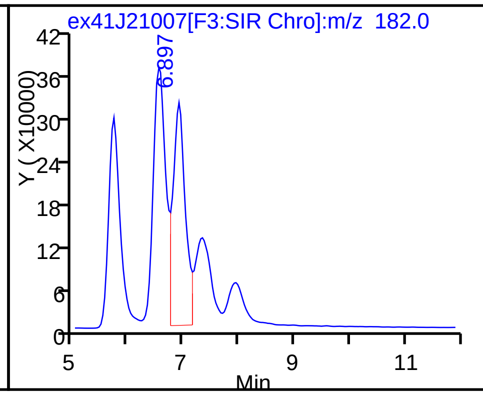
15 2,3-Dinitrotoluene



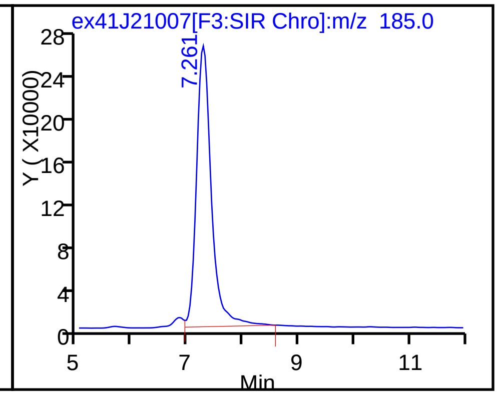
16 2-Amino-4,6-dinitrotoluene



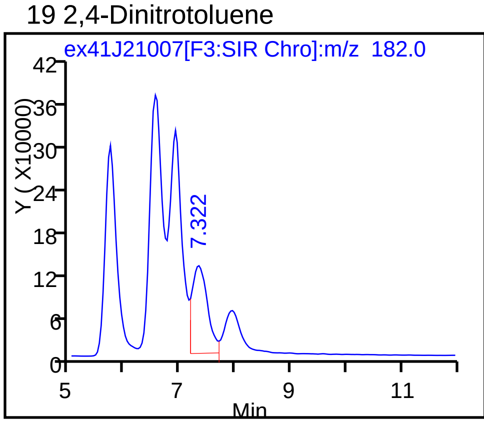
17 2,6-Dinitrotoluene



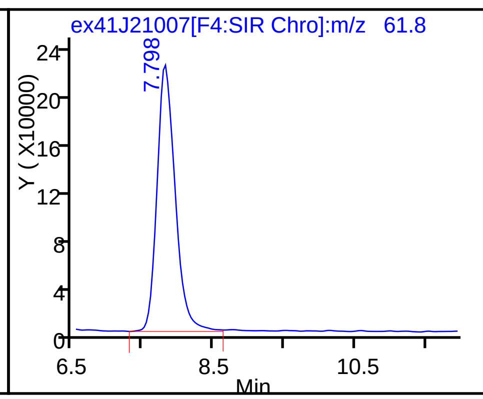
* 18 2,4-dinitrotoluene-d3



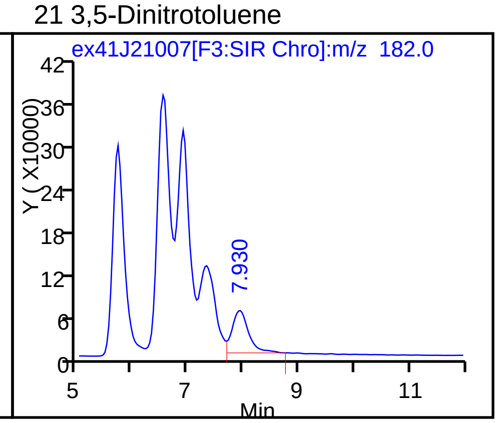
19 2,4-Dinitrotoluene



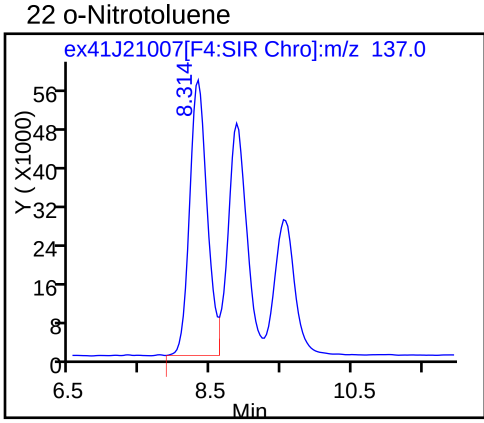
20 PETN



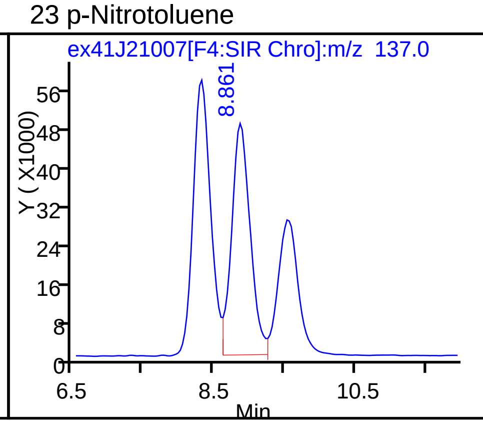
21 3,5-Dinitrotoluene



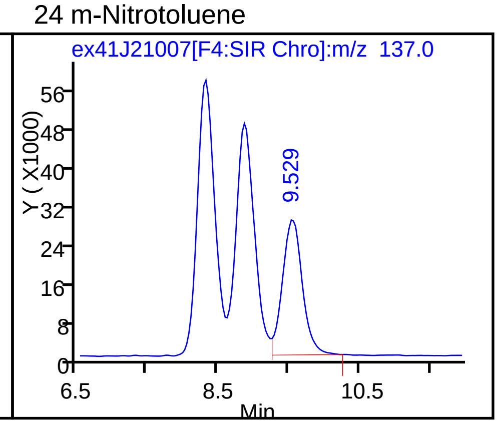
22 o-Nitrotoluene



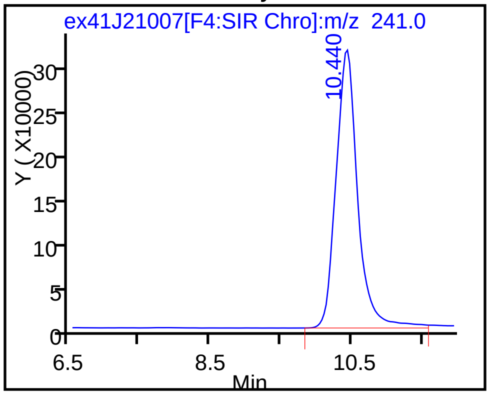
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21008.d		
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Sample Type:	IC	Calib Level:	6
Sample ID:	10/21/11EX1 STD200 ug/L 280-0002644-006		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	7
Lims Batch ID:	92354	Lims Sample ID:	6
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:45	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

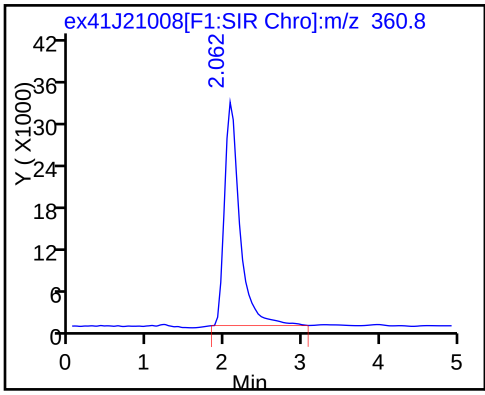
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		445491	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	810121	202.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1895525	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1408872	195.3			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	1424958	221.0			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	1580104	211.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1384736	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.068	-0.033	1.008	1220565	202.4			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	7174376	198.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.438	0.001	1.089	5490351	206.4			
$ 11 Nitrobenzene-d5										
2	128.0	5.573	5.540	0.033	1.116	1440792	211.5			
12 Nitrobenzene										
2	123.0	5.674	5.674	0.000	1.136	1127345	207.1			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.787	8250055	209.4			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.156	0.000	0.848	4024449	197.7			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.533	6.563	-0.030	0.900	10956168	211.8			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.745	-0.030	0.925	5376786	214.6			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.897	0.000	0.950	9088816	199.7			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.261	0.001		4276759	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.322	7.353	-0.031	1.008	4437530	203.1			
20 PETN										
4	61.8	7.828	7.828	0.000	1.000	6974193	209.8			
21 3,5-Dinitrotoluene										
3	182.0	7.930	7.960	-0.030	1.092	2487075	222.0			
22 o-Nitrotoluene										
4	137.0	8.314	8.345	-0.031	1.000	1856989	204.2			
23 p-Nitrotoluene										
4	137.0	8.891	8.891	0.000	1.000	1654035	203.6			
24 m-Nitrotoluene										
4	137.0	9.559	9.559	0.000	1.000	1016967	203.1			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.440	10.440	0.000	1.000	12130142	204.5			

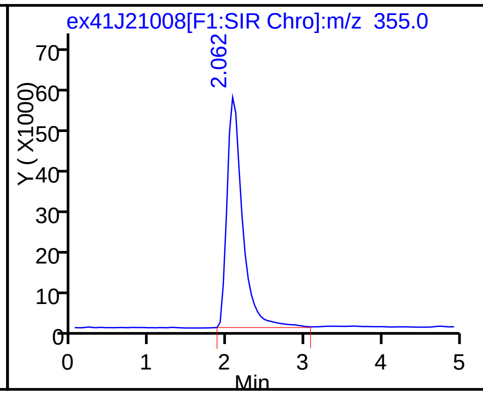
Report Date: 24-Oct-2011 07:32:45 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21008.d

Injection Date:	21-Oct-2011 10:36:39	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	6
Operator ID:		Injection Vol:	40.00 ul

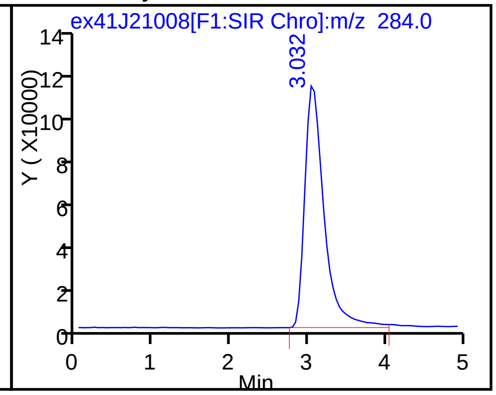
* 1 HMX-13C4



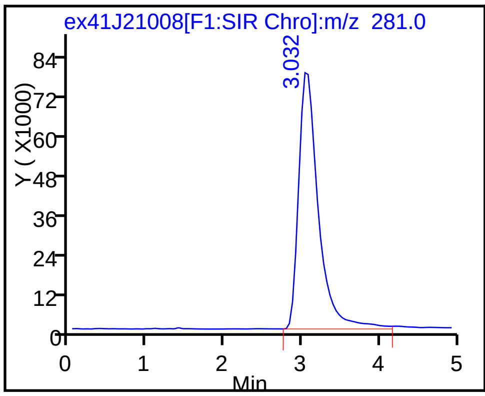
2 HMX



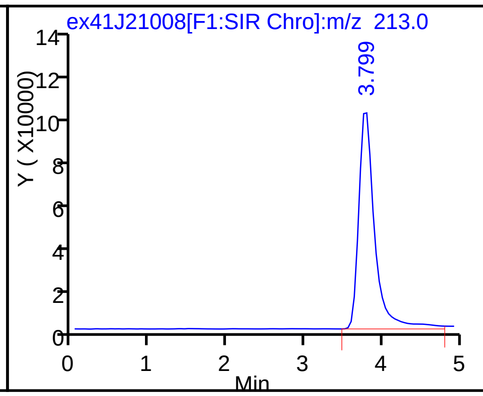
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



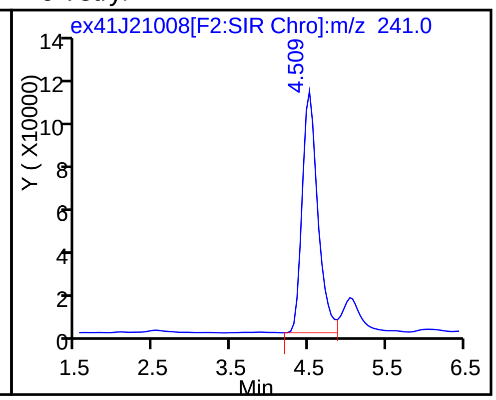
4 RDX



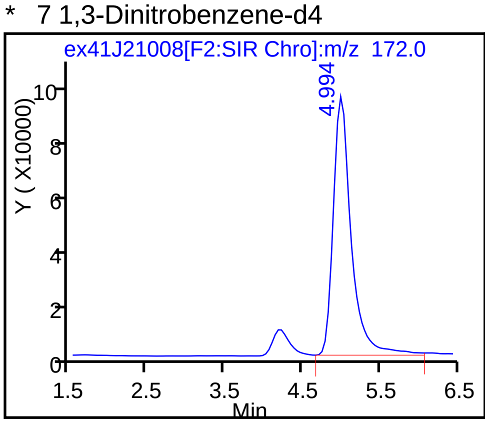
5 1,3,5-Trinitrobenzene



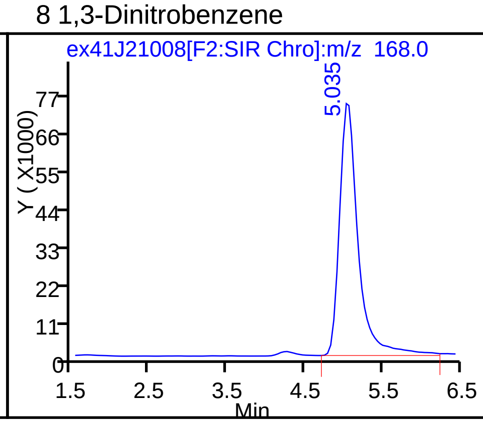
6 Tetryl



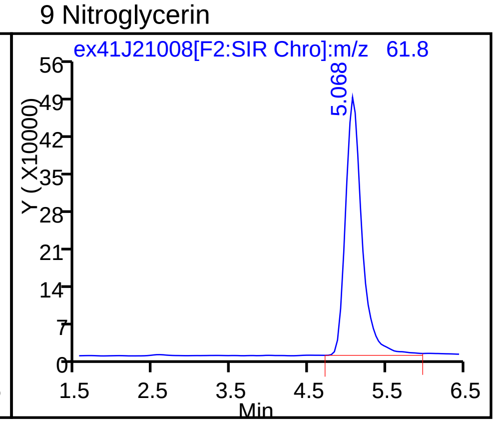
* 7 1,3-Dinitrobenzene-d4



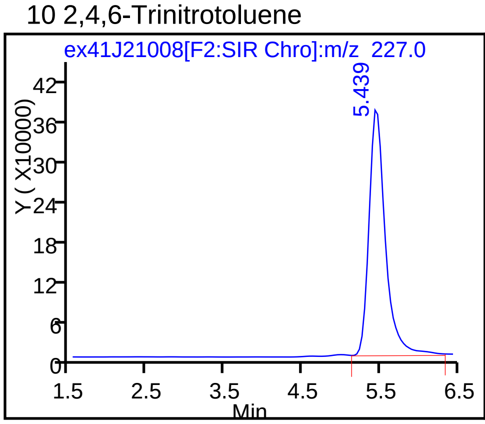
8 1,3-Dinitrobenzene



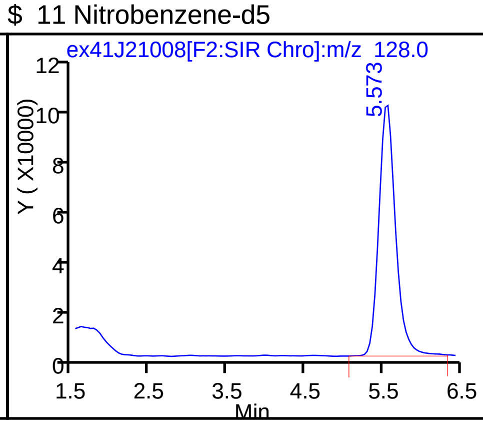
9 Nitroglycerin



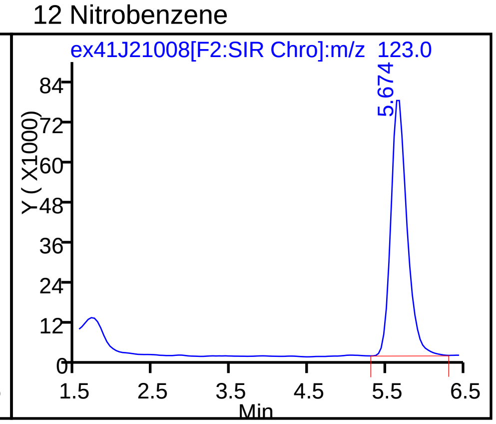
10 2,4,6-Trinitrotoluene



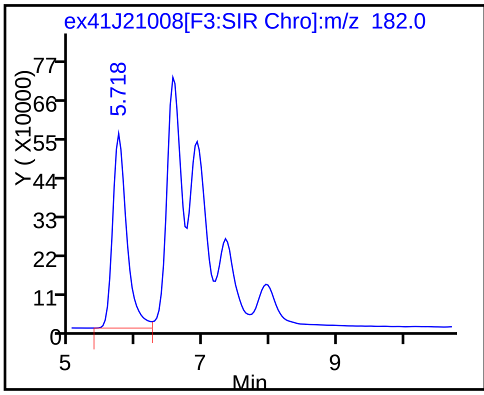
$ 11 Nitrobenzene-d5



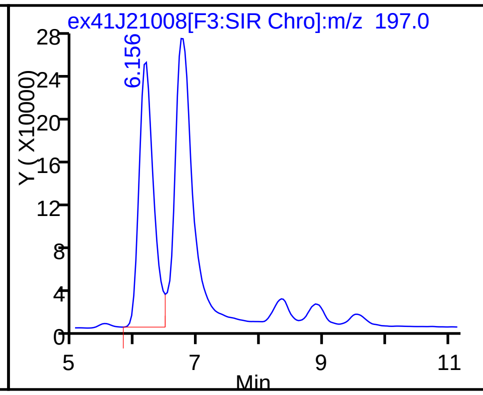
12 Nitrobenzene



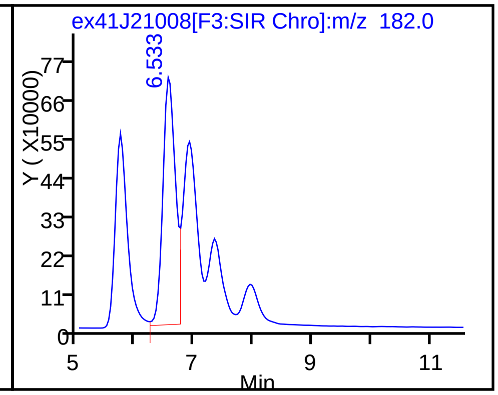
13 3,4-Dinitrotoluene



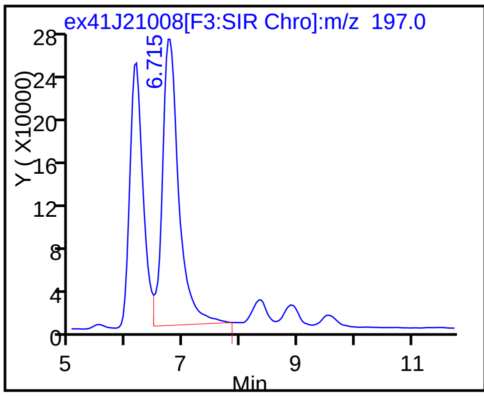
14 4-Amino-2,6-dinitrotoluene



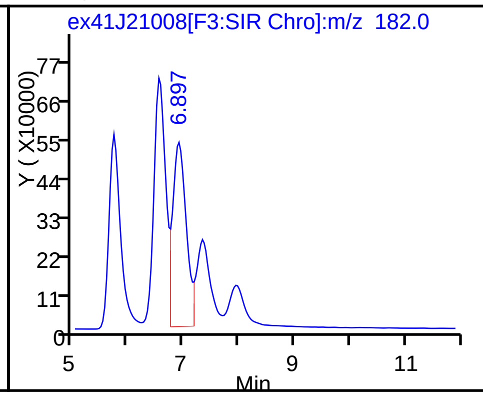
15 2,3-Dinitrotoluene



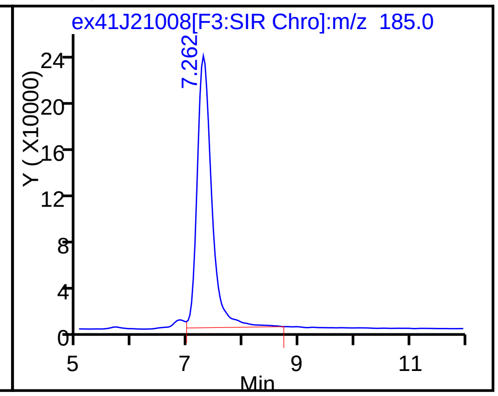
16 2-Amino-4,6-dinitrotoluene



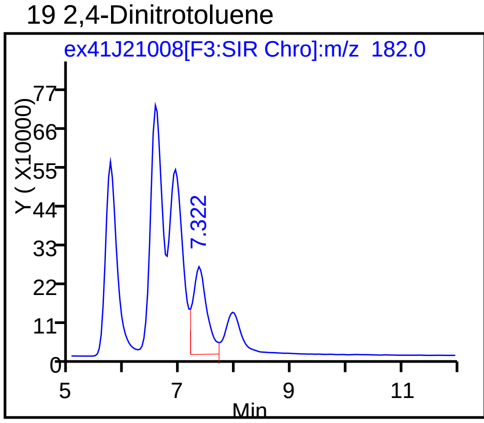
17 2,6-Dinitrotoluene



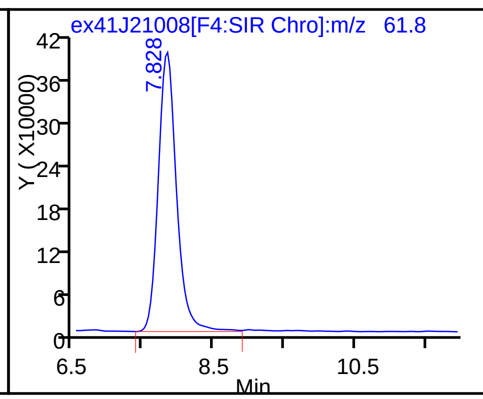
* 18 2,4-dinitrotoluene-d3



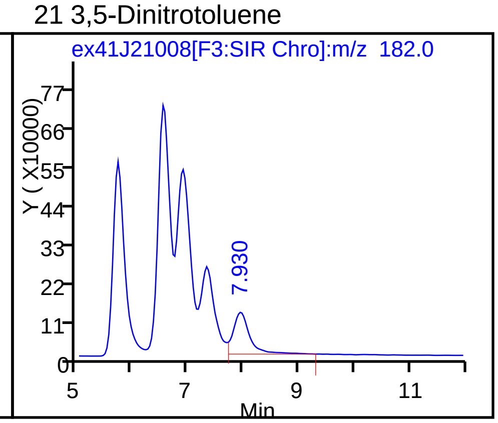
19 2,4-Dinitrotoluene



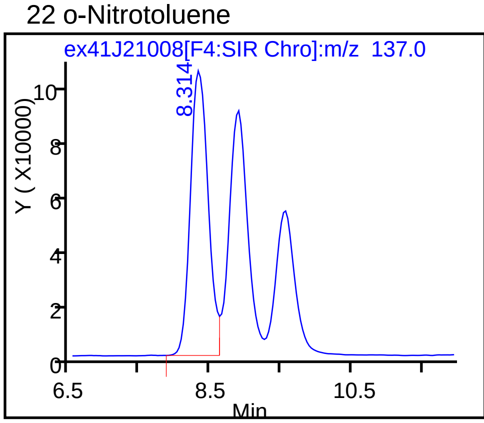
20 PETN



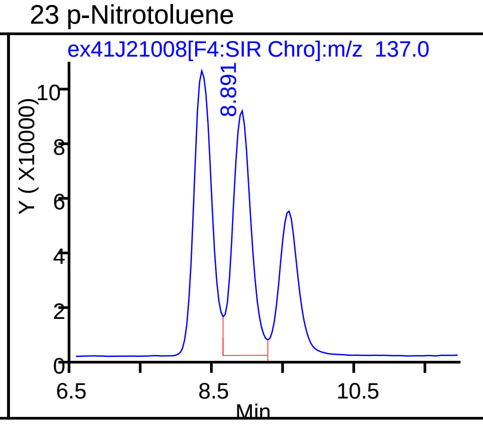
21 3,5-Dinitrotoluene



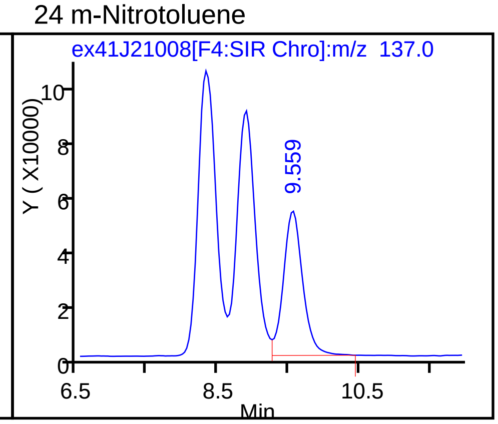
22 o-Nitrotoluene



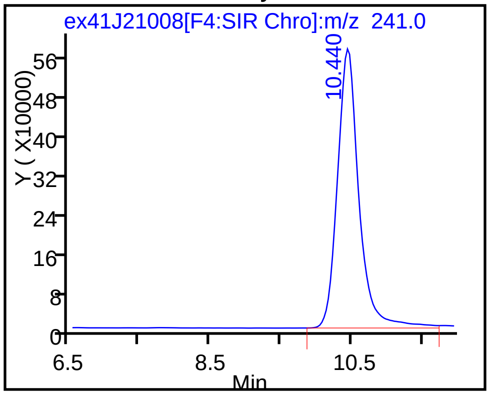
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Lims ID:	STD300	Client ID:	
Inject. Date:	21-Oct-2011 10:50:13	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	10/21/11EX1 STD300 ug/L 280-0002644-007		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	8
Lims Batch ID:	92354	Lims Sample ID:	7
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:46	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 21-Oct-2011 11:09:16

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		355205	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	965254	301.4			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1807306	250.0			
4 RDX										
1	281.0	3.072	3.032	0.040	1.013	2008053	292.1			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	1920435	291.2			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	2214425	289.5			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1412481	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.068	0.000	1.015	1867624	303.4			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	11292599	305.6			
10 2,4,6-Trinitrotoluene										
2	227.0	5.472	5.438	0.034	1.096	7879891	290.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.540	0.000	1.109	2019931	291.0			
12 Nitrobenzene										
2	123.0	5.674	5.674	0.000	1.136	1645655	296.3			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.787	11687210	290.5			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.156	0.000	0.848	6089652	292.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.563	6.563	0.000	0.904	15067138	285.2			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.746	6.745	0.001	0.929	7352568	287.3			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.897	0.000	0.950	14211297	305.7			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.261	0.001		4368716	250.0			
19 2,4-Dinitrotoluene										M
3	182.0	7.353	7.353	0.000	1.013	6670517	298.8			M
20 PETN										
4	61.8	7.828	7.828	0.000	1.000	9539084	281.6			
21 3,5-Dinitrotoluene										
3	182.0	7.930	7.960	-0.030	1.092	3267415	285.2			
22 o-Nitrotoluene										
4	137.0	8.345	8.345	0.000	1.000	2739568	295.1			
23 p-Nitrotoluene										
4	137.0	8.891	8.891	0.000	1.000	2483358	299.1			
24 m-Nitrotoluene										
4	137.0	9.559	9.559	0.000	1.000	1497484	292.9			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.440	10.440	0.000	1.000	17542899	289.8			

QC Flag Legend

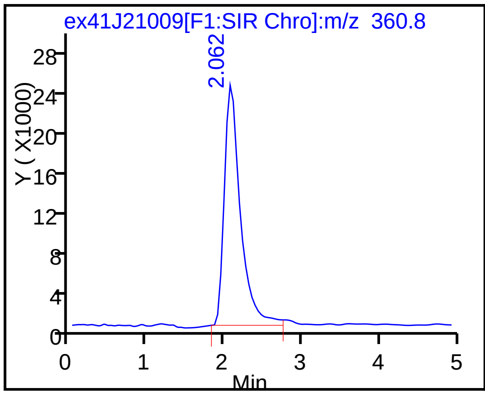
Review Flags
M - Manually Integrated

Report Date: 24-Oct-2011 07:32:46 Chrom Revision: 1.2 13-Jul-2011 10:43:06

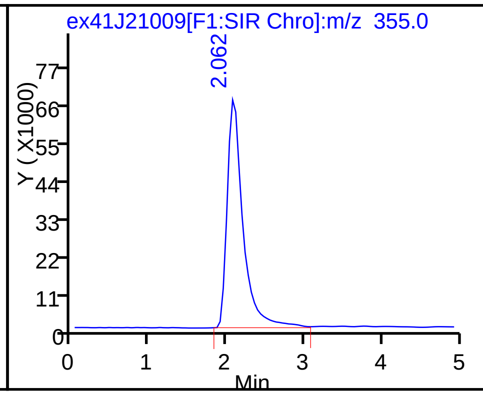
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d

Injection Date:	21-Oct-2011 10:50:13	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	7
Operator ID:		Injection Vol:	40.00 ul

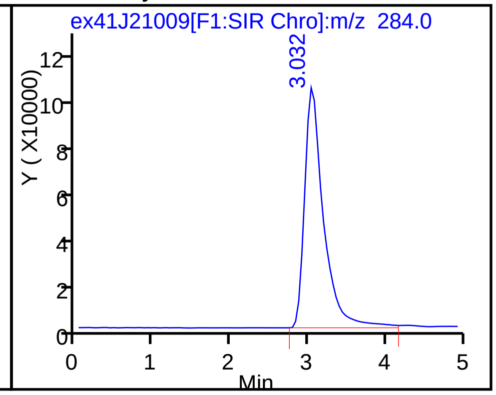
* 1 HMX-13C4



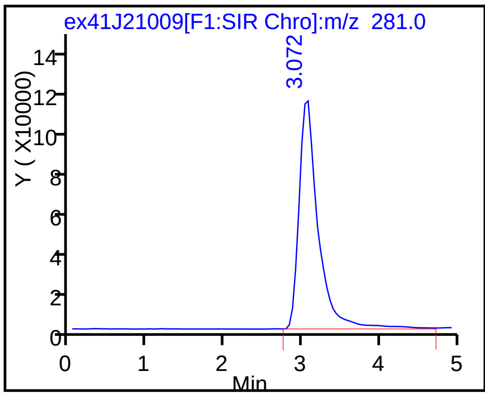
2 HMX



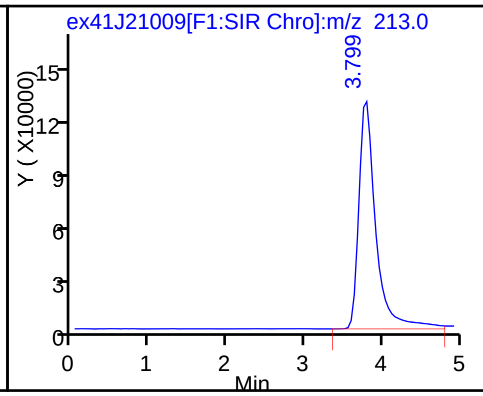
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



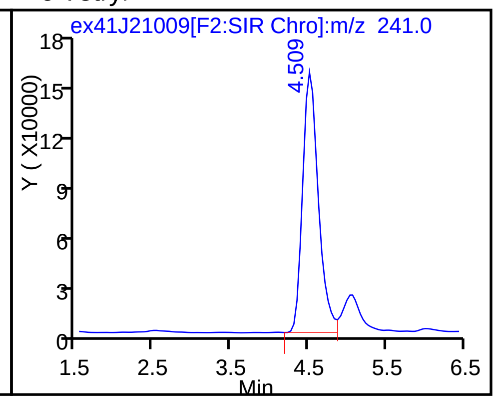
4 RDX



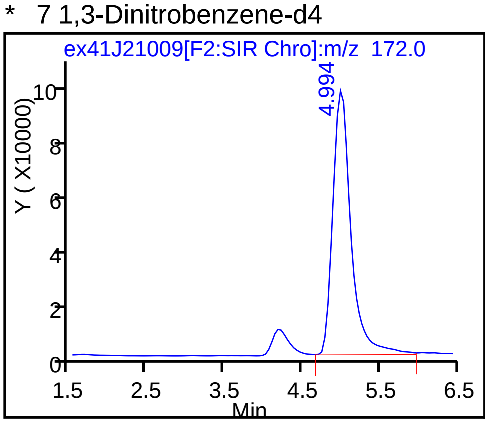
5 1,3,5-Trinitrobenzene



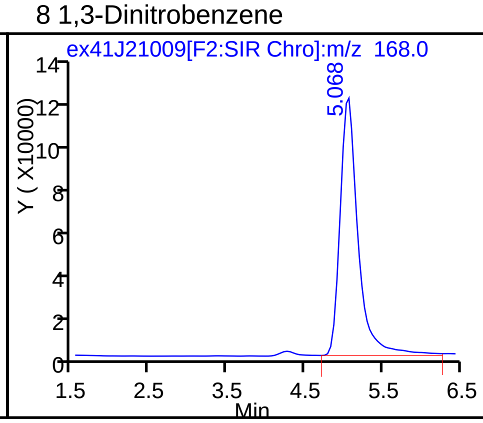
6 Tetryl



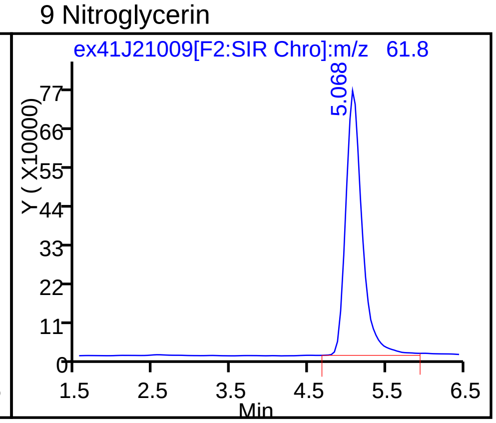
* 7 1,3-Dinitrobenzene-d4



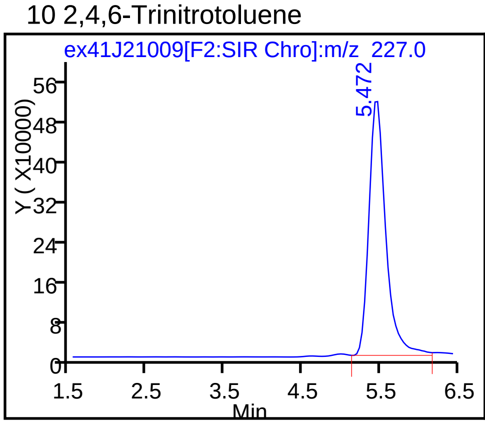
8 1,3-Dinitrobenzene



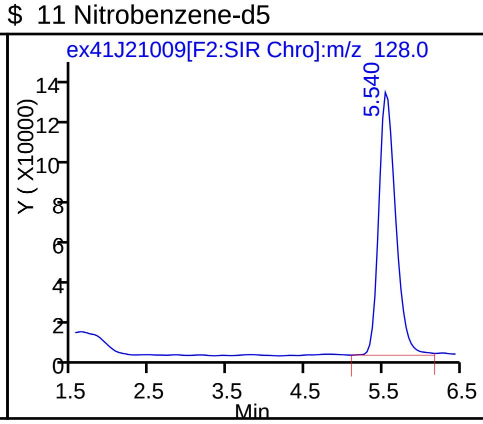
9 Nitroglycerin



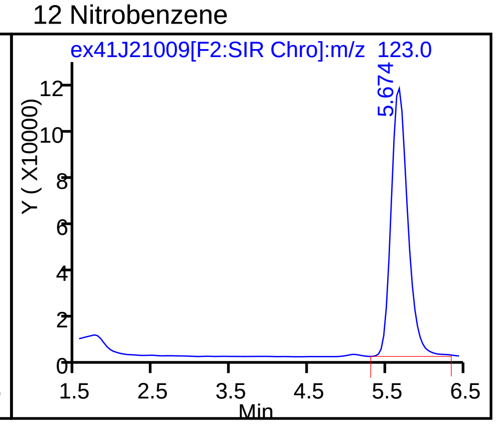
10 2,4,6-Trinitrotoluene



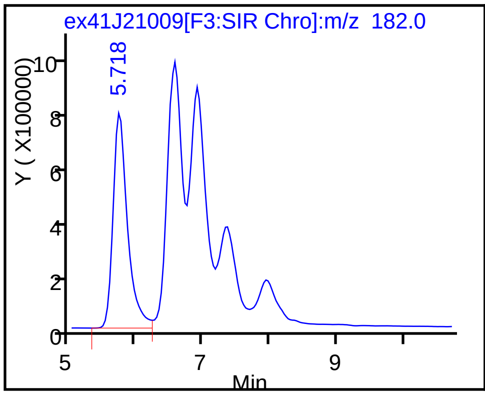
$ 11 Nitrobenzene-d5



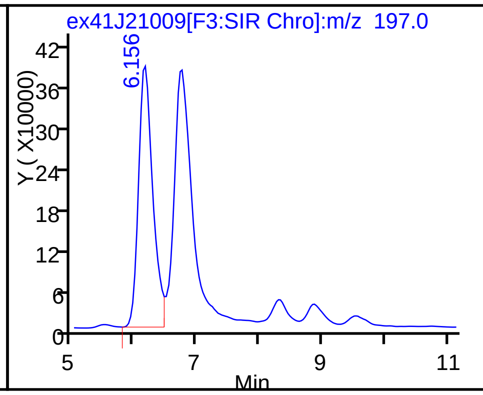
12 Nitrobenzene



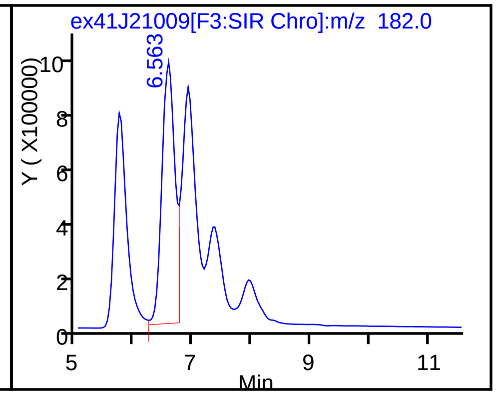
13 3,4-Dinitrotoluene



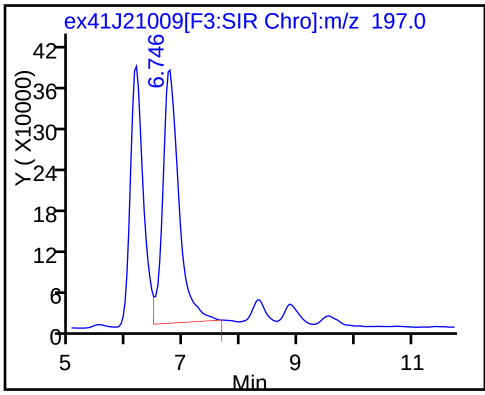
14 4-Amino-2,6-dinitrotoluene



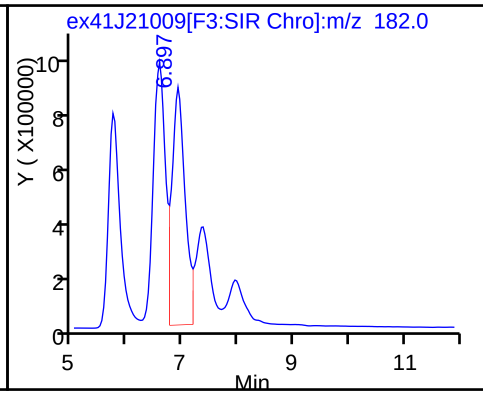
15 2,3-Dinitrotoluene



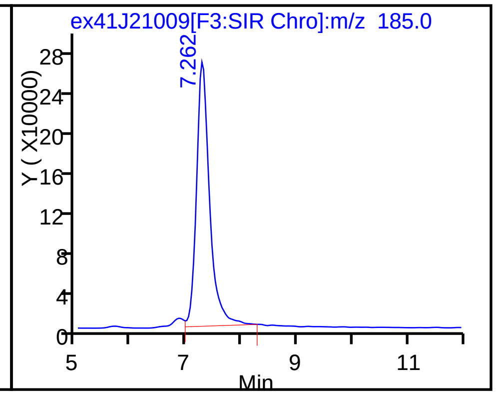
16 2-Amino-4,6-dinitrotoluene



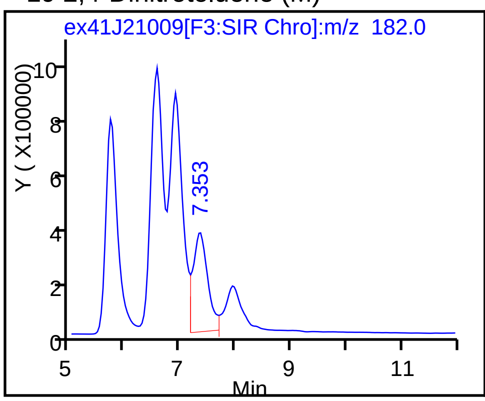
17 2,6-Dinitrotoluene



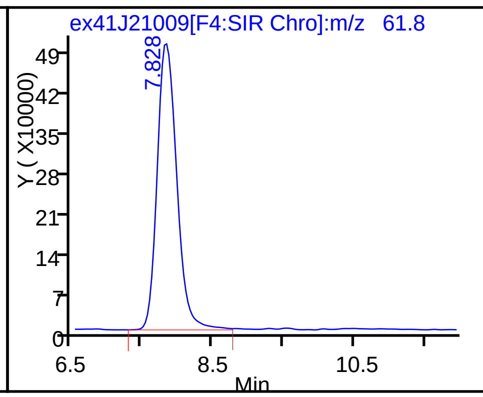
* 18 2,4-dinitrotoluene-d3



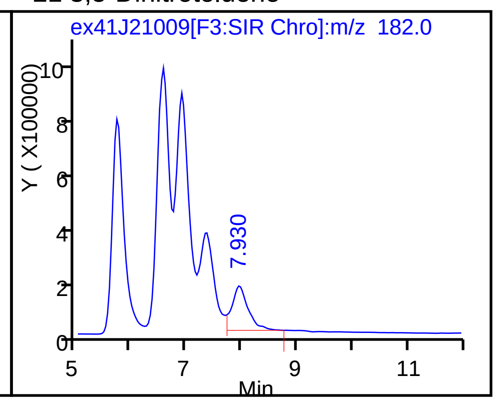
19 2,4-Dinitrotoluene (M)



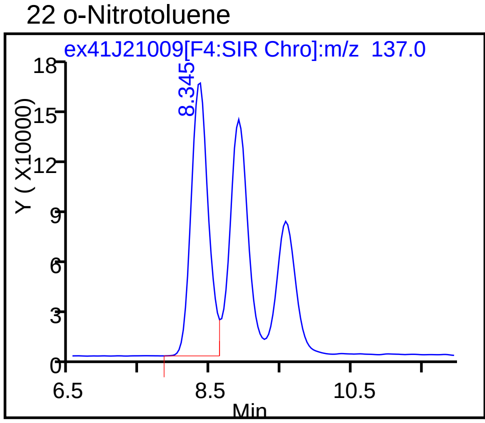
20 PETN



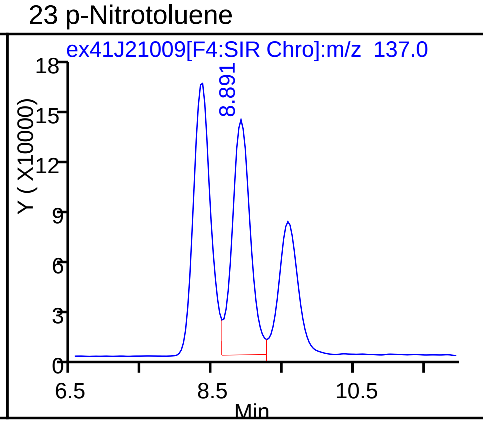
21 3,5-Dinitrotoluene



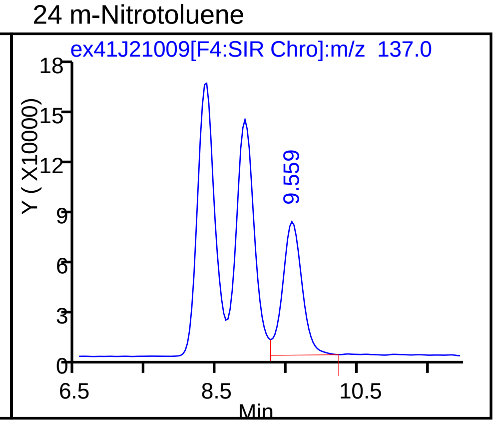
22 o-Nitrotoluene



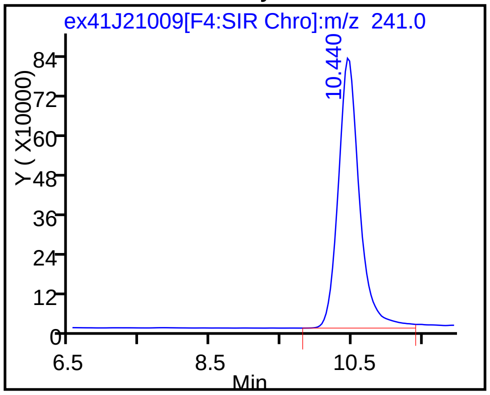
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



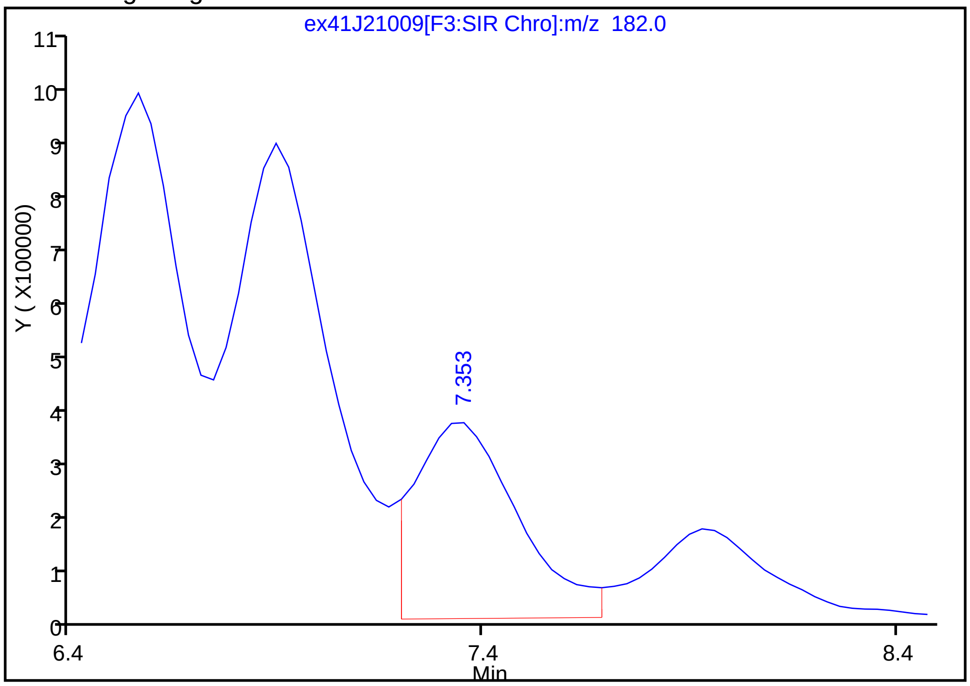
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Injection Date:	21-Oct-2011 10:50:13	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	7
Operator ID:		Injection Vol:	40.00 ul

19 2,4-Dinitrotoluene, Signal: 1, m/z: 182.0 Type: quant, RT: 7.35, Det: F3:SIR

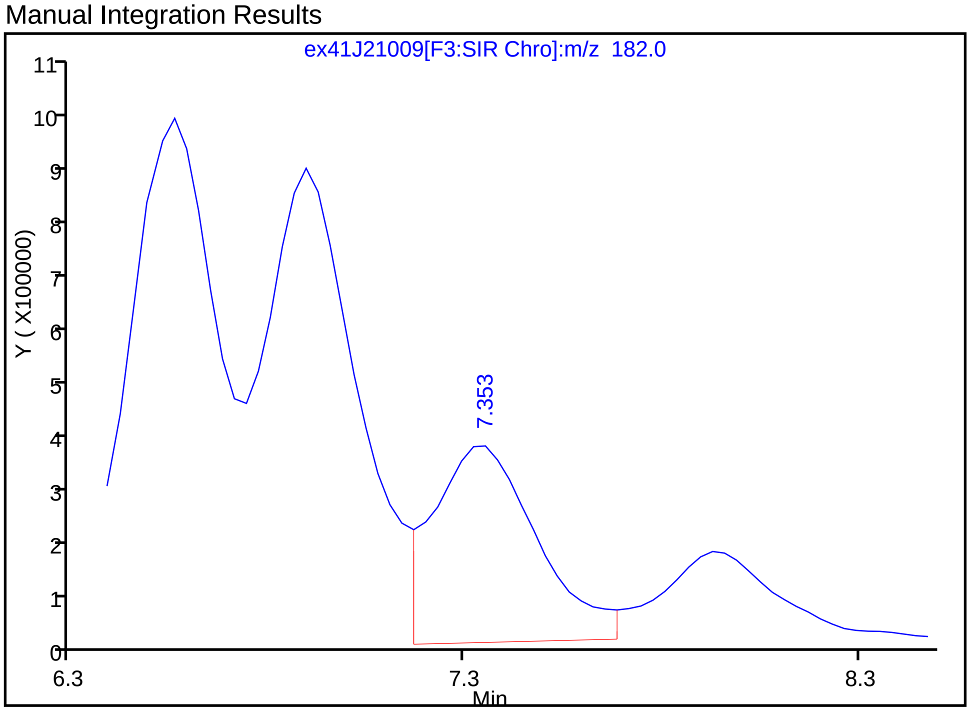
Processing Integration Results

RT: 7.35
Response: 6226014
Amount: 288.0623



Manual Integration Results

RT: 7.35
Response: 6670517
Amount: 298.8368



Reviewer: meyera, 21-Oct-2011 11:09:16
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: ICV 280-92354/10 Calibration Date: 10/21/2011 11:31

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21012.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		1.894		84.6	100	-15.4	20.0
RDX	Lin1		0.9299		97.6	100	-2.4	20.0
1,3,5-Trinitrobenzene	Lin1		0.9734		82.3	100	-17.7	20.0
Tetryl	Lin1		1.382		99.9	100	-0.1	20.0
1,3-Dinitrobenzene	Lin1		1.083		96.4	100	-3.6	20.0
Nitroglycerin	Lin1		5.588		83.4	100	-16.6	30.0
2,4,6-Trinitrotoluene	Lin1		4.639		93.7	100	-6.3	20.0
Nitrobenzene	Lin1		0.9243		91.0	100	-9.0	20.0
3,4-Dinitrotoluene	Lin1		1.976		85.8	100	-14.3	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.104		92.8	100	-7.2	20.0
2,3-Dinitrotoluene	Lin1		2.856		94.3	100	-5.7	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.624		111	100	10.7	20.0
2,6-Dinitrotoluene	Lin1		2.469		92.8	100	-7.2	20.0
2,4-Dinitrotoluene	Lin1		1.103		86.4	100	-13.6	20.0
PETN	Lin1		1.813		92.2	100	-7.8	30.0
3,5-Dinitrotoluene	Lin1		0.5358		82.6	100	-17.4	30.0
2-Nitrotoluene	Lin1		0.4887		91.9	100	-8.1	20.0
4-Nitrotoluene	Lin1		0.4327		91.3	100	-8.7	20.0
3-Nitrotoluene	Lin1		0.2742		93.6	100	-6.4	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.69		96.5	100	-3.5	30.0
Nitrobenzene-d5	Lin1		1.107		86.7	100	-13.3	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21012.d		
Lims ID:	ICV	Client ID:	
Inject. Date:	21-Oct-2011 11:31:28	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	10/21/11ICV ICV 280-0002644-010		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	9
Lims Batch ID:	92354	Lims Sample ID:	10
Sublist:			
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:46	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

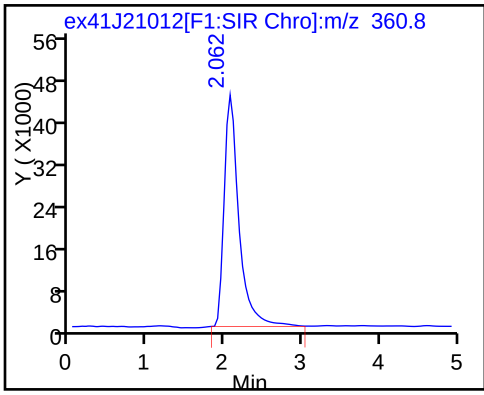
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		589783	250.0			
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	446721	84.6			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2122759	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	789583	97.6			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.799	0.000	1.000	603814	82.3			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.903	857000	99.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1604847	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.068	0.000	1.015	672081	96.4			
9 Nitroglycerin										
2	61.8	5.068	5.068	0.000	1.015	3466332	83.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.089	2877581	93.7			
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.540	-0.001	1.109	687052	86.7			
12 Nitrobenzene										
2	123.0	5.674	5.674	0.000	1.136	573367	91.0			
13 3,4-Dinitrotoluene										
3	182.0	5.718	5.718	0.000	0.791	3899395	85.8			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.156	0.000	0.851	2175148	92.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.563	6.563	0.000	0.908	5628662	94.3			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.776	6.745	0.031	0.937	3199958	110.7			
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.897	0.000	0.954	4866973	92.8			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.261	-0.030		4927567	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.353	7.353	0.000	1.017	2173653	86.4			
20 PETN										
4	61.8	7.828	7.828	0.000	1.000	3572685	92.2			
21 3,5-Dinitrotoluene										
3	182.0	7.930	7.960	-0.030	1.097	1056154	82.6			
22 o-Nitrotoluene										
4	137.0	8.345	8.345	0.000	1.000	963298	91.9			
23 p-Nitrotoluene										
4	137.0	8.891	8.891	0.000	1.000	852773	91.3			
24 m-Nitrotoluene										
4	137.0	9.559	9.559	0.000	1.000	540486	93.6			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.440	10.440	0.000	1.000	6629475	96.5			

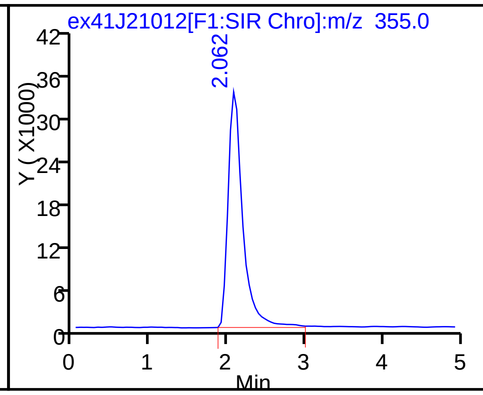
Report Date: 24-Oct-2011 07:32:50 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21012.d

Injection Date:	21-Oct-2011 11:31:28	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	10
Operator ID:		Injection Vol:	40.00 ul

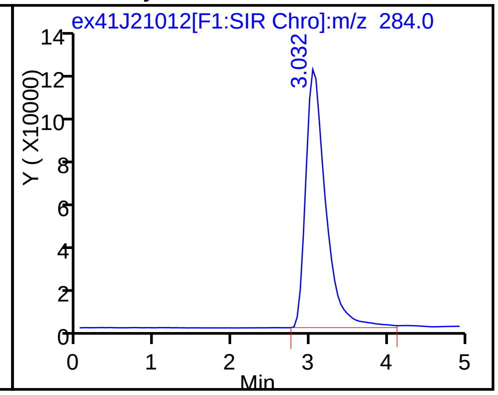
* 1 HMX-13C4



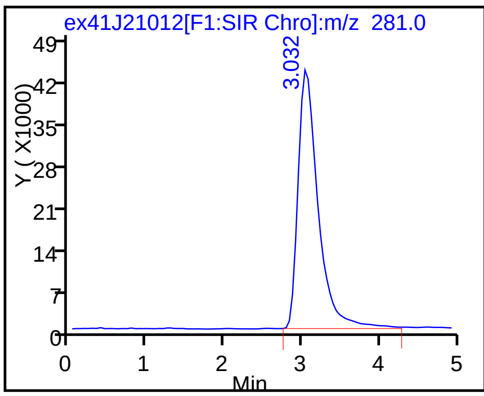
2 HMX



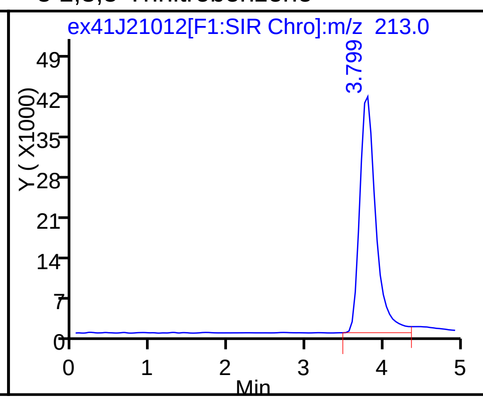
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



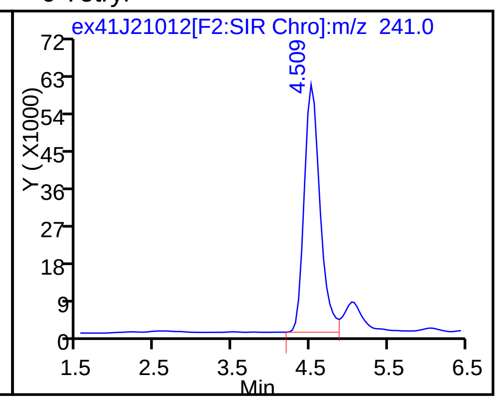
4 RDX



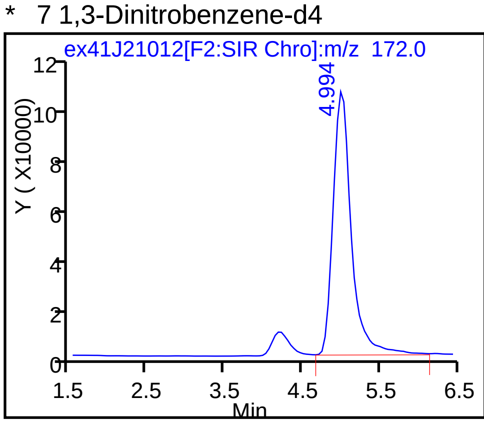
5 1,3,5-Trinitrobenzene



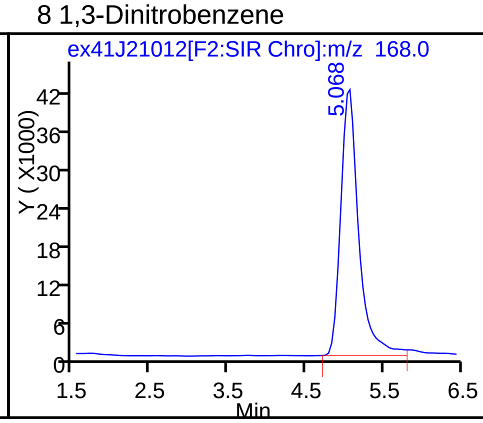
6 Tetryl



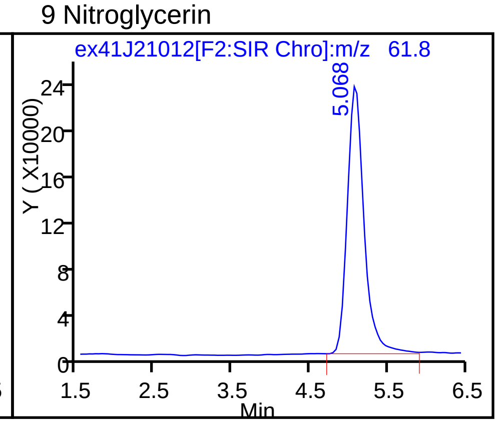
* 7 1,3-Dinitrobenzene-d4



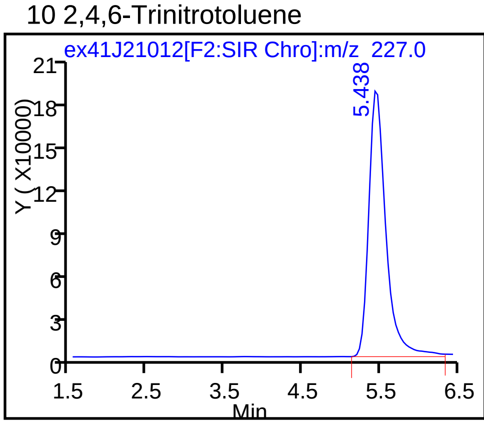
8 1,3-Dinitrobenzene



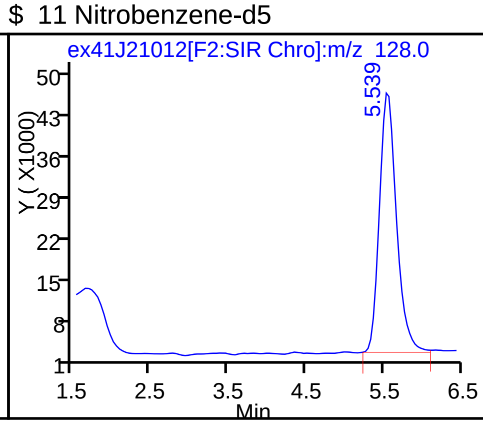
9 Nitroglycerin



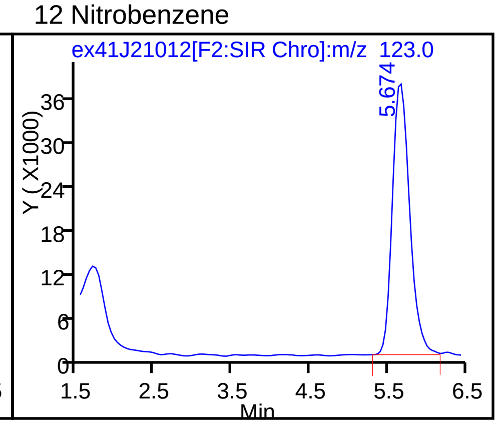
10 2,4,6-Trinitrotoluene



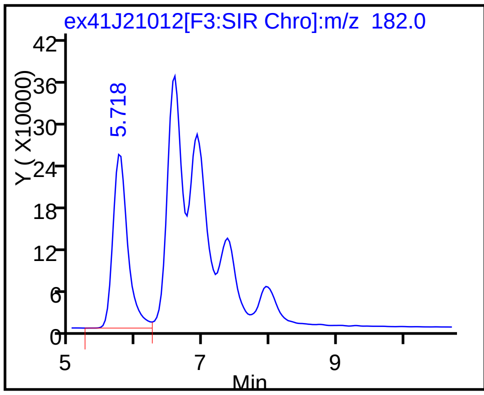
$ 11 Nitrobenzene-d5



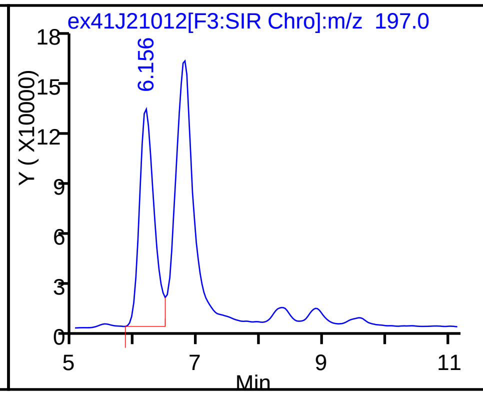
12 Nitrobenzene



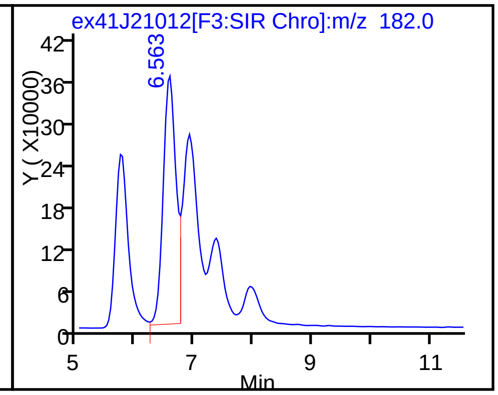
13 3,4-Dinitrotoluene



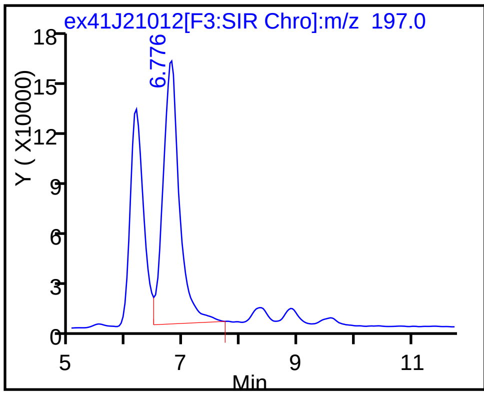
14 4-Amino-2,6-dinitrotoluene



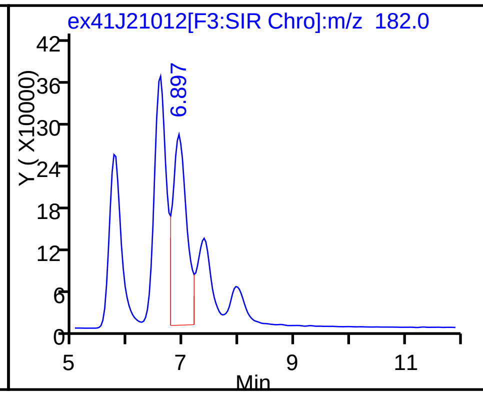
15 2,3-Dinitrotoluene



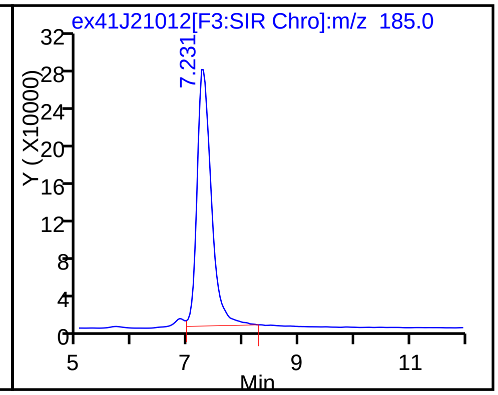
16 2-Amino-4,6-dinitrotoluene



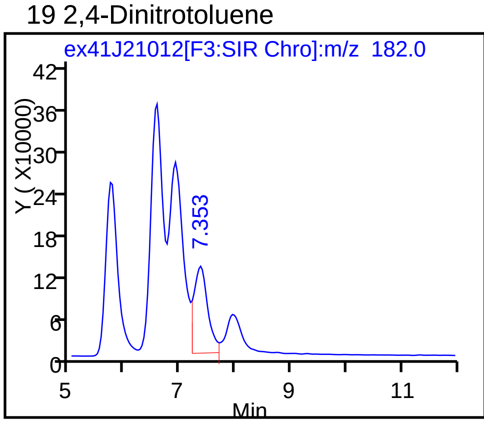
17 2,6-Dinitrotoluene



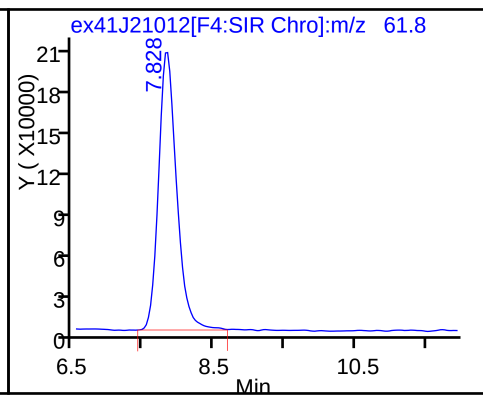
* 18 2,4-dinitrotoluene-d3



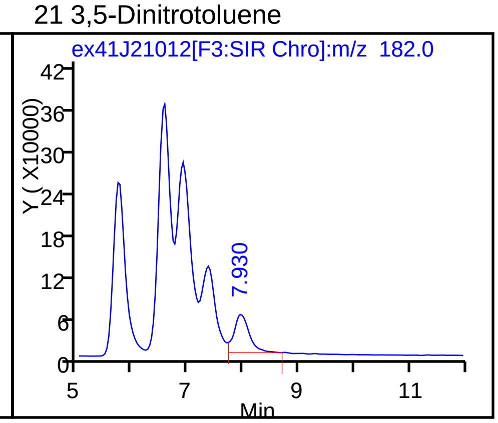
19 2,4-Dinitrotoluene



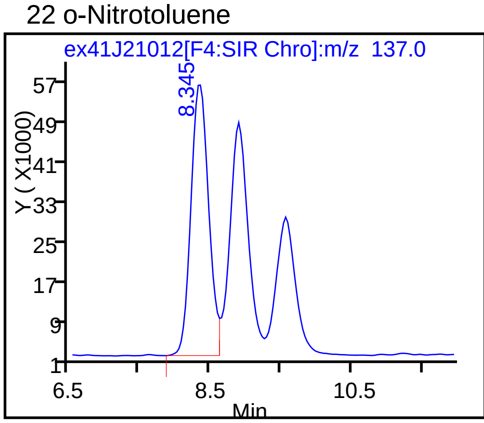
20 PETN



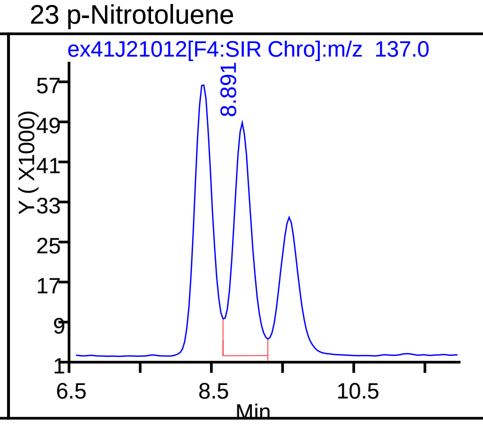
21 3,5-Dinitrotoluene



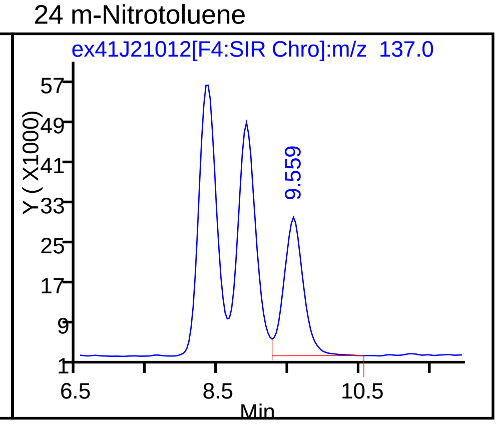
22 o-Nitrotoluene



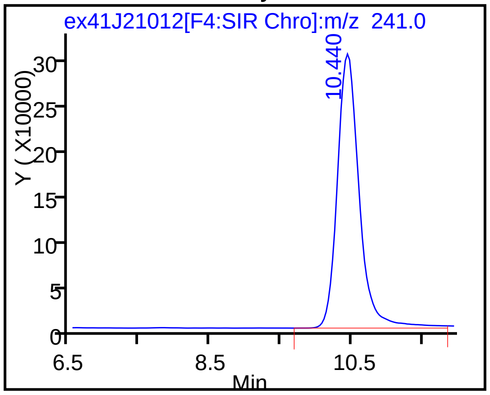
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94252/164 Calibration Date: 11/02/2011 05:28

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21640.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.396		107	100	6.8	20.0
RDX	Lin1		1.067		111	98.7	12.1	20.0
1,3,5-Trinitrobenzene	Lin1		1.276		107	100	7.1	20.0
Tetryl	Lin1		1.454		104	99.4	5.0	20.0
1,3-Dinitrobenzene	Lin1		1.286		116	101	14.3	20.0
Nitroglycerin	Lin1		7.155		107	100	6.5	30.0
2,4,6-Trinitrotoluene	Lin1		5.140		104	100	3.7	20.0
Nitrobenzene	Lin1		0.9486		93.3	99.9	-6.6	20.0
3,4-Dinitrotoluene	Lin1		2.486		108	100	7.9	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.306		108	98.7	9.8	20.0
2,3-Dinitrotoluene	Lin1		3.315		110	100	9.5	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.746		119	100	19.1	20.0
2,6-Dinitrotoluene	Lin1		2.616		98.4	100	-1.7	20.0
2,4-Dinitrotoluene	Lin1		1.420		112	100	11.3	20.0
PETN	Lin1		2.319		118	99.8	18.5	30.0
3,5-Dinitrotoluene	Lin1		0.7411		114	100	13.8	30.0
2-Nitrotoluene	Lin1		0.6299		117	99.1	18.5	20.0
4-Nitrotoluene	Lin1		0.4994		105	99.5	5.3	20.0
3-Nitrotoluene	Lin1		0.3192		108	98.8	9.0	20.0
2,4,6-Trinitro-3-xylene	Lin1		11.22		101	100	1.3	30.0
Nitrobenzene-d5	Lin1		1.244		97.5	100	-2.5	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21640.d
Lims ID: CCV Client ID:
Inject. Date: 02-Nov-2011 05:28:09 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 11/01/11EX5 CCV 100 ug/L 280-0002689-164
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 6
Lims Batch ID: 94252 Lims Sample ID: 164
Sublist: chrom-8321exp4-25*sub3
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m
Last Update: 02-Nov-2011 06:55:57 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

First Level Reviewer: meyera Date: 02-Nov-2011 06:55:57

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	478048	106.8			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		498886	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1859604	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	783641	110.6			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	608338	107.2			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	688432	104.4			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1232467	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.034	0.000	1.016	621383	115.9			
9 Nitroglycerin										
2	61.8	5.034	5.034	0.000	1.016	3408637	106.5			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.098	2451004	103.8			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	592821	97.5			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	451415	93.3			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.786	3445443	107.9			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1786313	108.4			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.898	4592573	109.5			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.924	2422079	119.2			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.945	3628501	98.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.231	0.000		3464165	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.004	1974235	111.6			
20 PETN										M
4	61.8	7.737	7.737	0.000	1.000	3207570	118.3			M
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.869	0.000	1.088	1026929	113.8			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	864938	117.4			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	688579	104.8			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	436951	107.7			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.349	10.349	0.000	1.000	5346686	101.3			

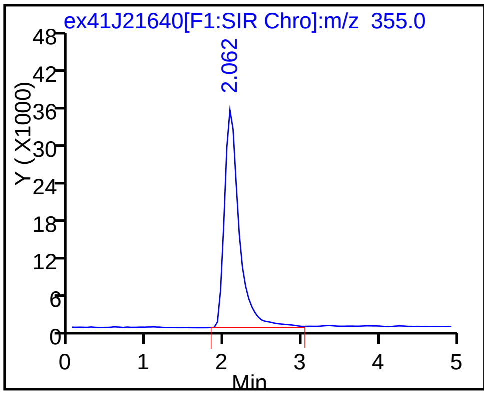
QC Flag Legend

Review Flags
M - Manually Integrated

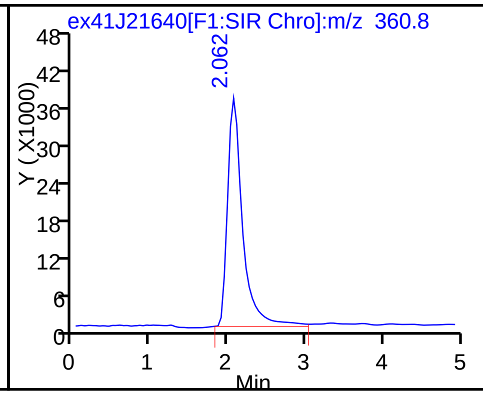
Report Date: 02-Nov-2011 06:55:58 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21640.d

Injection Date:	02-Nov-2011 05:28:09	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	164
Operator ID:		Injection Vol:	40.00 ul

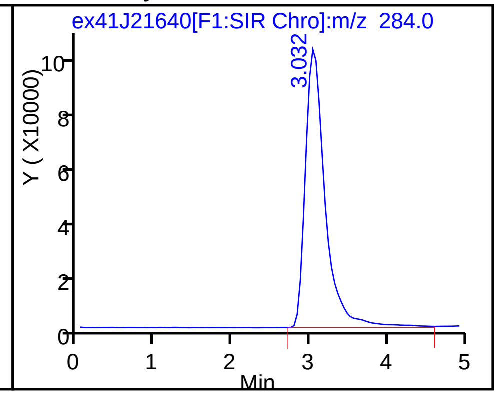
2 HMX



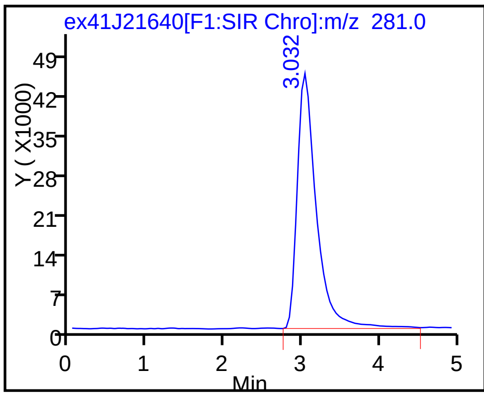
* 1 HMX-13C4



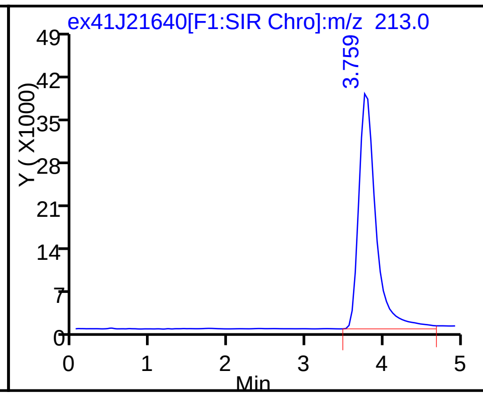
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



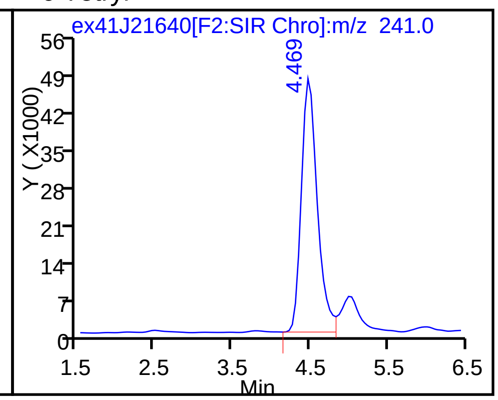
4 RDX



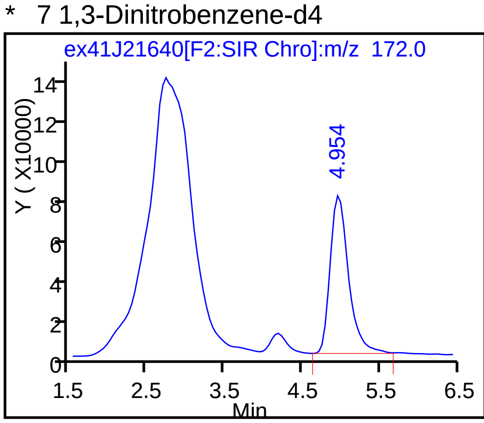
5 1,3,5-Trinitrobenzene



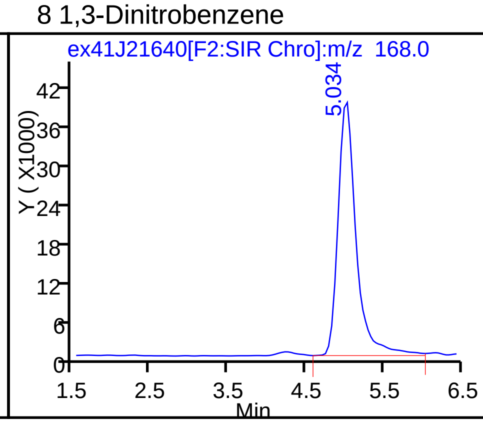
6 Tetryl



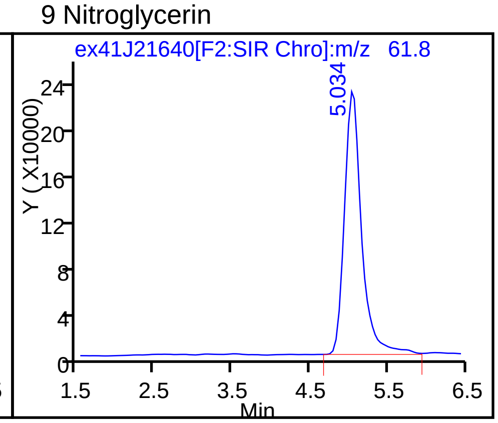
* 7 1,3-Dinitrobenzene-d4



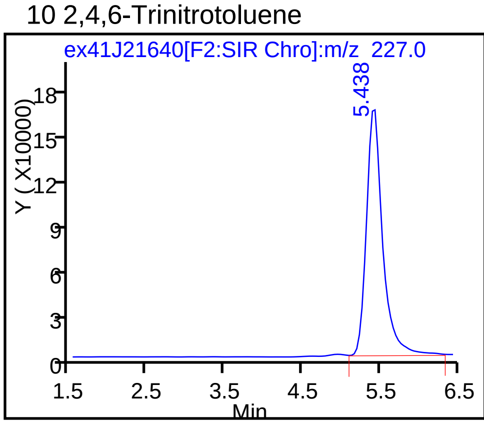
8 1,3-Dinitrobenzene



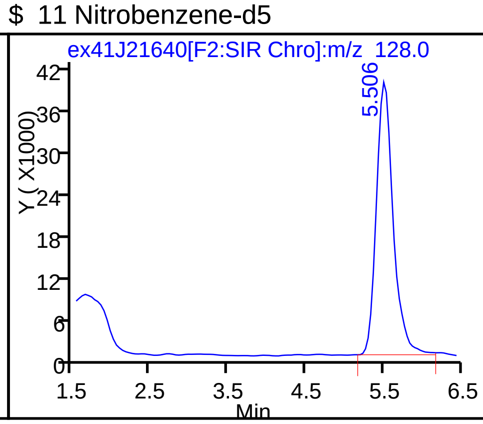
9 Nitroglycerin



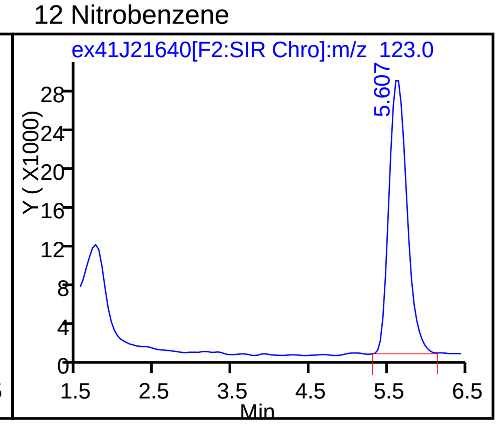
10 2,4,6-Trinitrotoluene



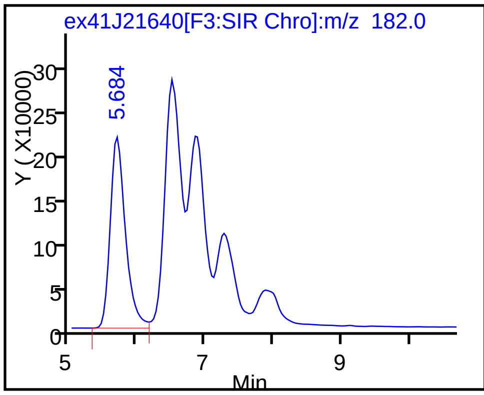
$ 11 Nitrobenzene-d5



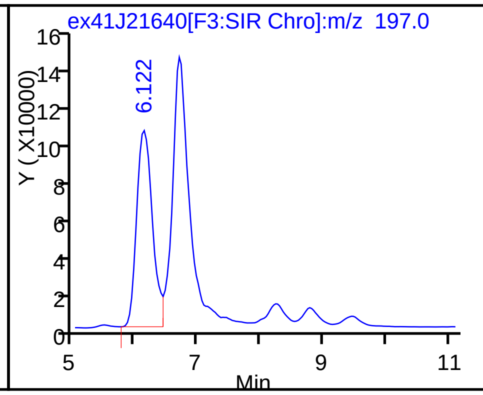
12 Nitrobenzene



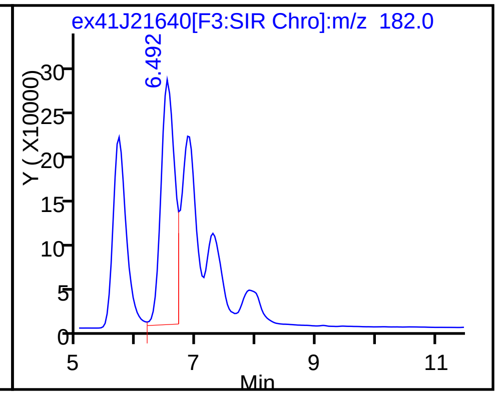
13 3,4-Dinitrotoluene



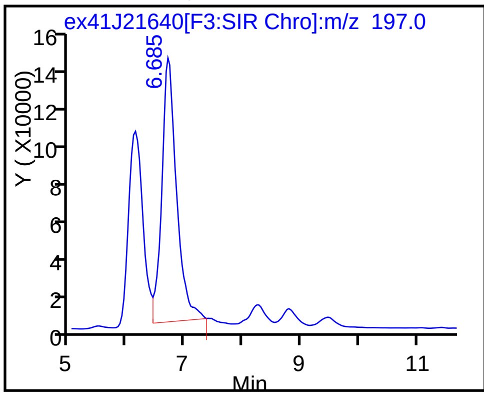
14 4-Amino-2,6-dinitrotoluene



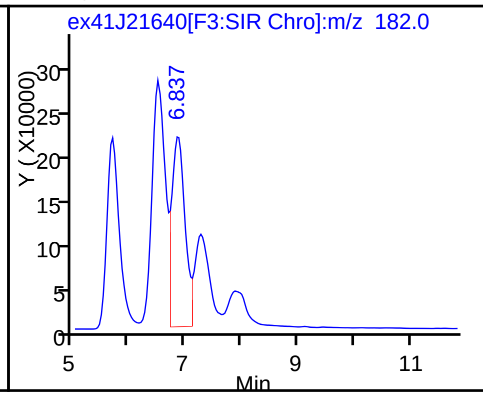
15 2,3-Dinitrotoluene



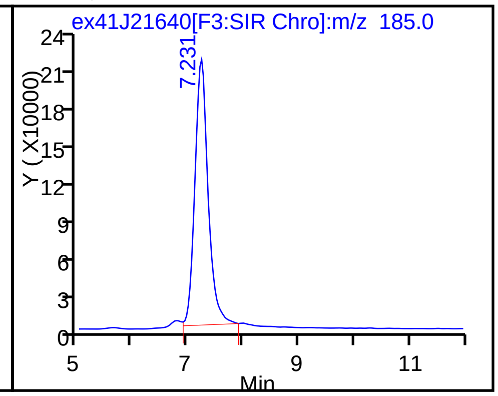
16 2-Amino-4,6-dinitrotoluene



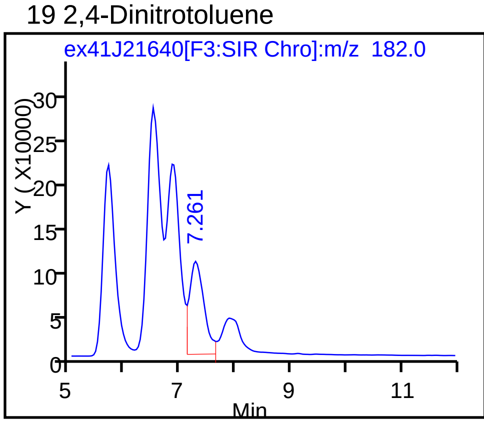
17 2,6-Dinitrotoluene



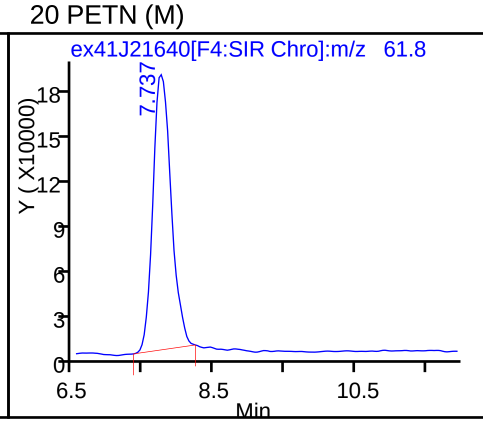
* 18 2,4-dinitrotoluene-d3



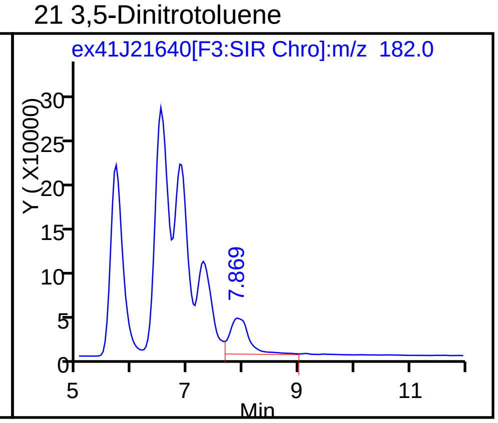
19 2,4-Dinitrotoluene



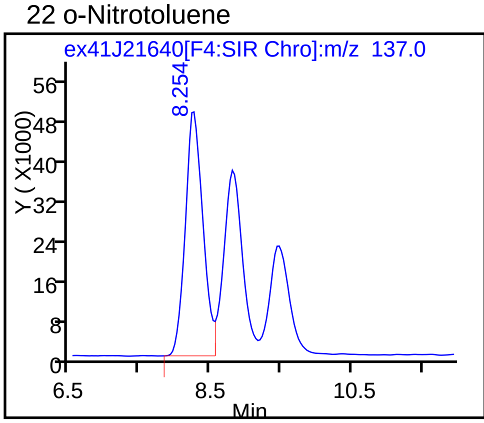
20 PETN (M)



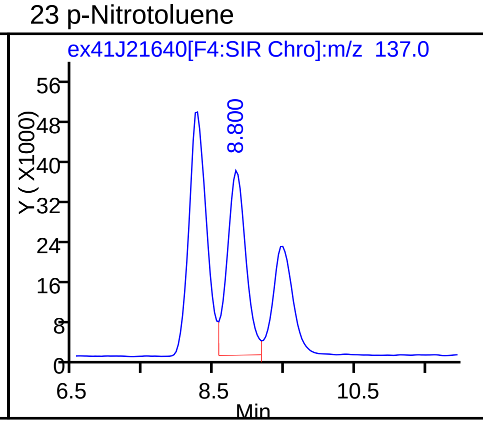
21 3,5-Dinitrotoluene



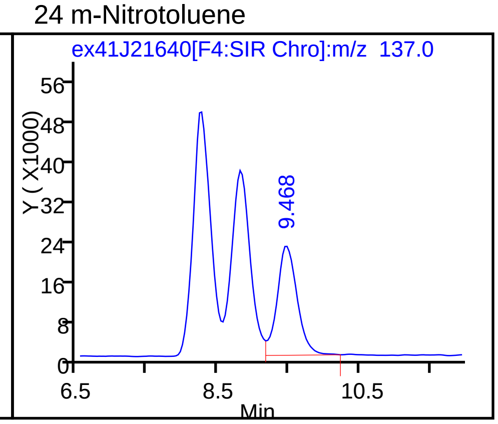
22 o-Nitrotoluene



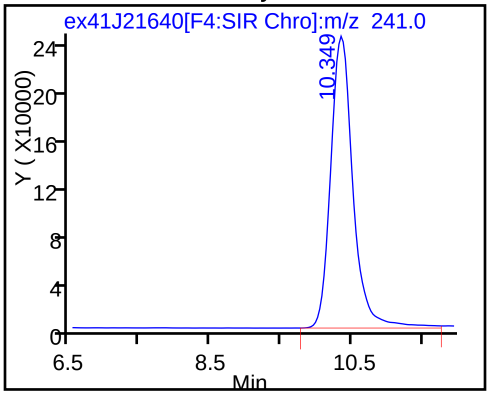
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



Report Date: 02-Nov-2011 06:55:58

Chrom Revision: 1.2 13-Jul-2011 10:43:06

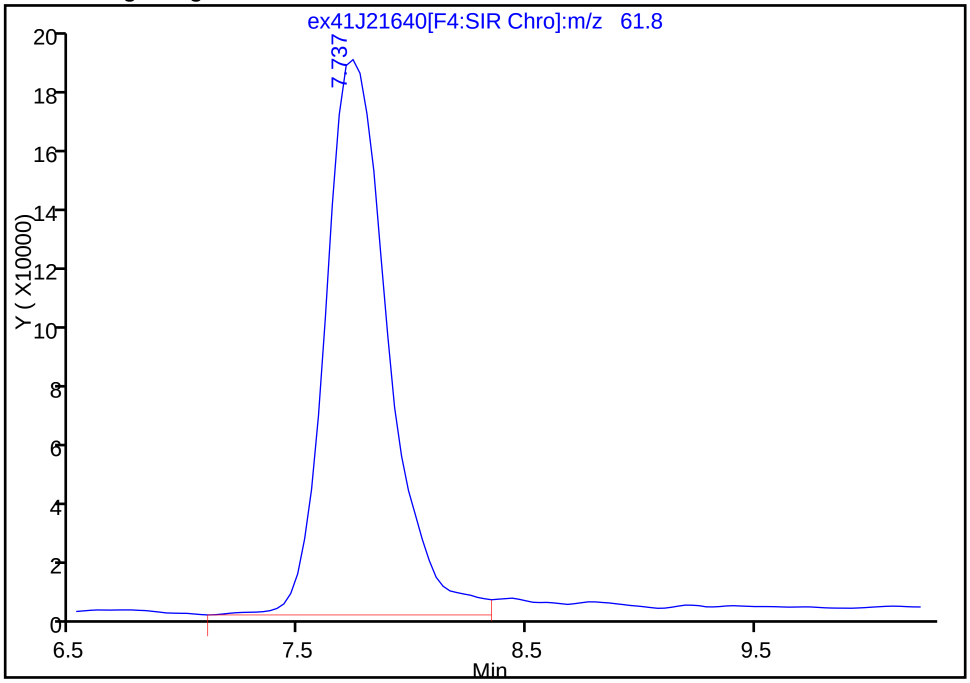
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21640.d		
Injection Date:	02-Nov-2011 05:28:09	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	164
Operator ID:		Injection Vol:	40.00 ul

20 PETN, Signal: 1, m/z: 61.8 Type: quant, RT: 7.74, Det: F4:SIR

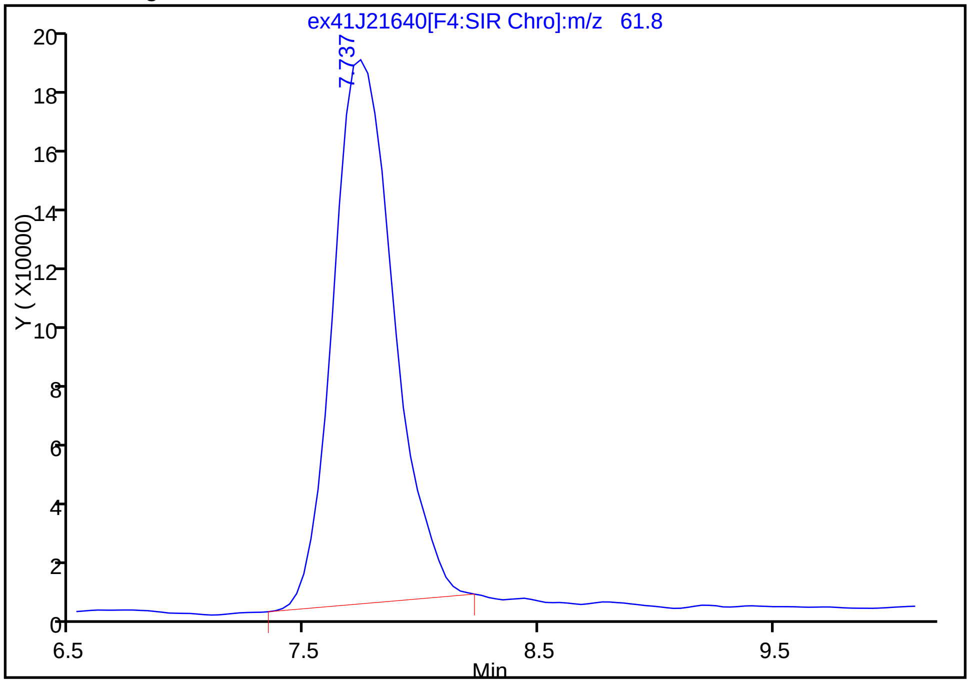
Processing Integration Results

RT: 7.74
Response: 3470640
Amount: 128.1379



Manual Integration Results

RT: 7.74
Response: 3207570
Amount: 118.2767



Reviewer: meyera, 02-Nov-2011 06:55:48

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94252/175 Calibration Date: 11/02/2011 07:57

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21651.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.094		47.1	50.0	-5.8	20.0
RDX	Lin1		1.003		51.9	49.4	5.2	20.0
1,3,5-Trinitrobenzene	Lin1		0.9753		42.4	50.1	-15.3	20.0
Tetryl	Lin1		1.283		47.1	49.7	-5.2	20.0
1,3-Dinitrobenzene	Lin1		1.095		49.6	50.7	-2.2	20.0
Nitroglycerin	Lin1		6.175		46.6	50.0	-6.8	30.0
2,4,6-Trinitrotoluene	Lin1		4.734		48.1	50.1	-3.9	20.0
Nitrobenzene	Lin1		0.9027		44.5	50.0	-10.9	20.0
3,4-Dinitrotoluene	Lin1		2.343		50.7	50.0	1.4	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.239		51.5	49.4	4.4	20.0
2,3-Dinitrotoluene	Lin1		2.893		47.6	50.0	-4.8	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.525		51.9	50.1	3.7	20.0
2,6-Dinitrotoluene	Lin1		2.489		46.8	50.1	-6.5	20.0
2,4-Dinitrotoluene	Lin1		1.173		46.2	50.2	-7.9	20.0
PETN	Lin1		2.458		61.8	49.9	23.8	30.0
3,5-Dinitrotoluene	Lin1		0.6249		48.7	50.0	-2.6	30.0
2-Nitrotoluene	Lin1		0.5231		48.6	49.6	-1.9	20.0
4-Nitrotoluene	Lin1		0.4408		46.4	49.8	-6.7	20.0
3-Nitrotoluene	Lin1		0.2639		44.4	49.4	-10.1	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.32		46.6	50.0	-6.8	30.0
Nitrobenzene-d5	Lin1		1.209		47.1	50.0	-5.8	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21651.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	02-Nov-2011 07:57:59	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX4 CCV 50 ug/L 280-0002689-175		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94252	Lims Sample ID:	175
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:30	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

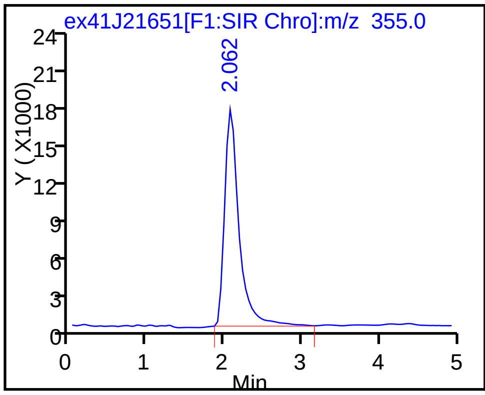
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	226496	47.1			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		540942	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1770166	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	350604	51.9			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	253908	42.4			
6 Tetryl										
2	241.0	4.509	4.509	0.000	0.910	331672	47.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1345773	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.034	0.000	1.016	288774	49.6			
9 Nitroglycerin										
2	61.8	5.034	5.034	0.000	1.016	1605892	46.6			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.438	0.000	1.098	1232463	48.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	314643	47.1			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	234544	44.5			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.789	1815407	50.7			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.850	947322	51.5			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.902	2240856	47.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	1182724	51.9			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	1929745	46.8			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		3873083	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.013	911202	46.2			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	1900430	61.8			
21 3,5-Dinitrotoluene										
3	182.0	7.899	7.899	0.000	1.097	484085	48.7			
22 o-Nitrotoluene										
4	137.0	8.284	8.284	0.000	1.000	401525	48.6			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	339777	46.4			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	201993	44.4			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.349	10.349	0.000	1.000	2684369	46.6			

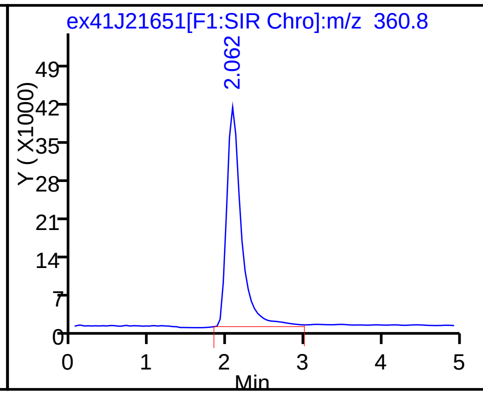
Report Date: 02-Nov-2011 10:22:31 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21651.d

Injection Date:	02-Nov-2011 07:57:59	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	175
Operator ID:		Injection Vol:	40.00 ul

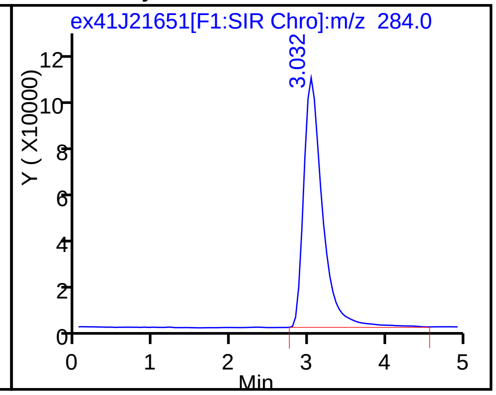
2 HMX



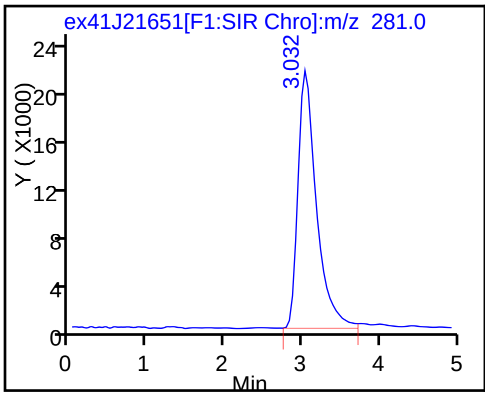
* 1 HMX-13C4



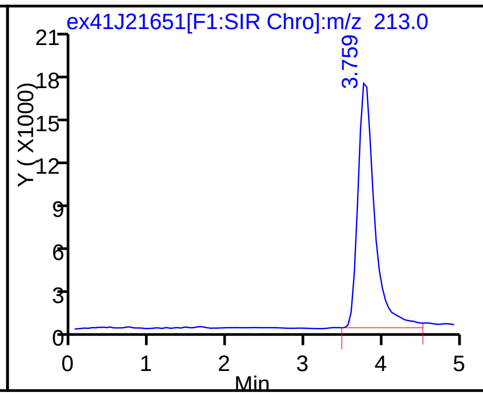
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



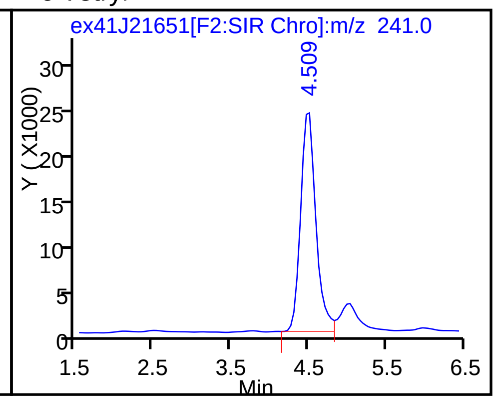
4 RDX



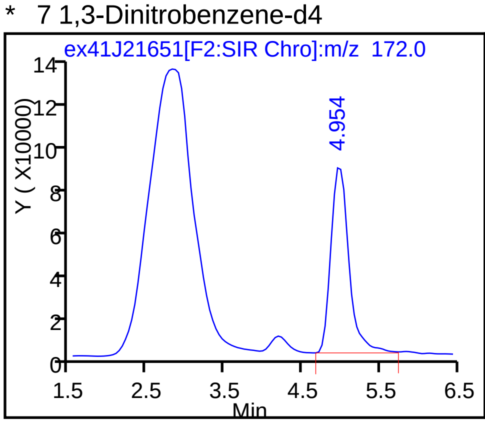
5 1,3,5-Trinitrobenzene



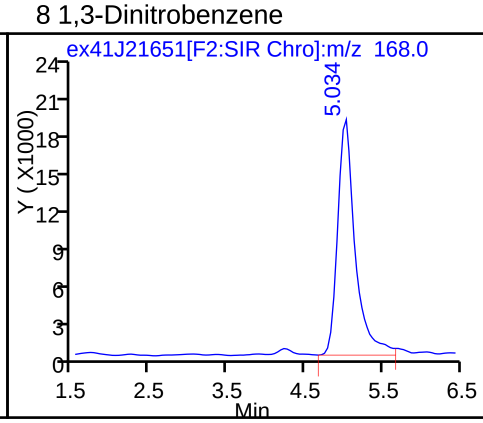
6 Tetryl



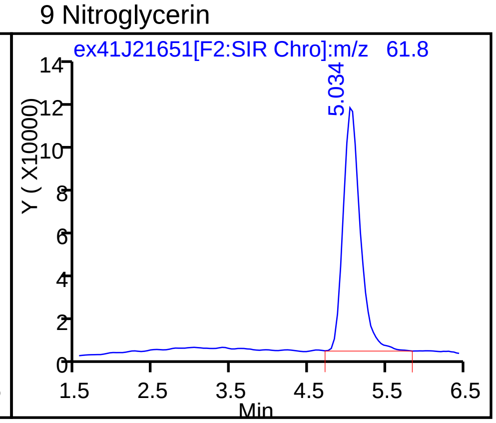
* 7 1,3-Dinitrobenzene-d4



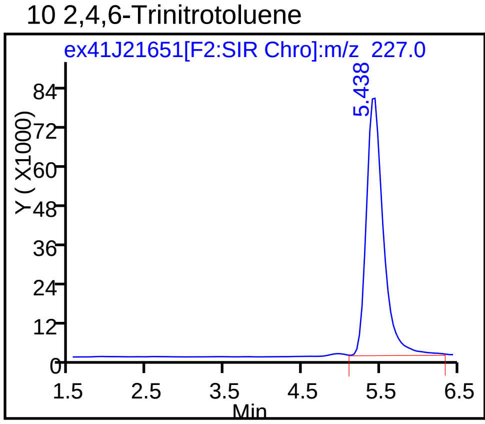
8 1,3-Dinitrobenzene



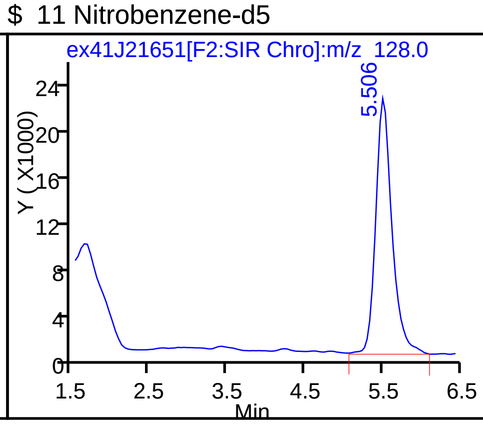
9 Nitroglycerin



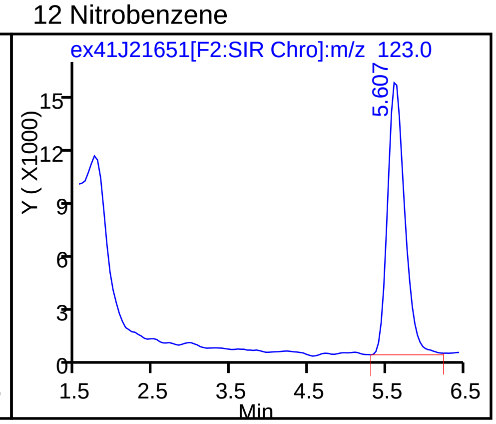
10 2,4,6-Trinitrotoluene



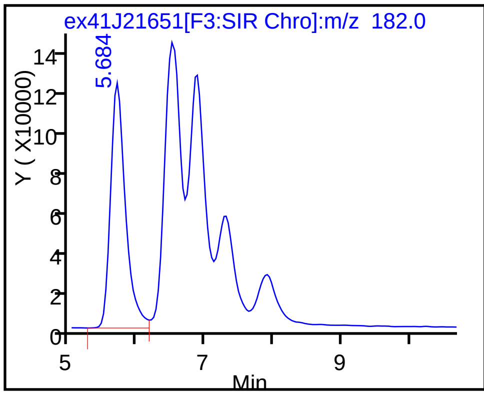
$ 11 Nitrobenzene-d5



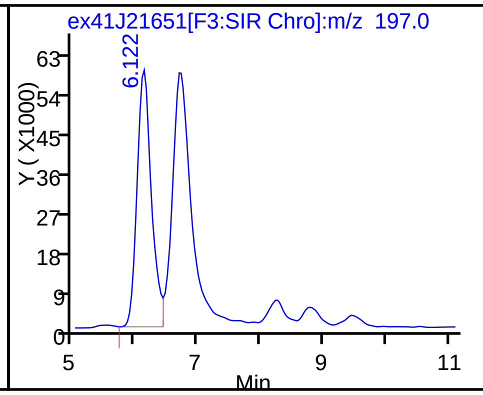
12 Nitrobenzene



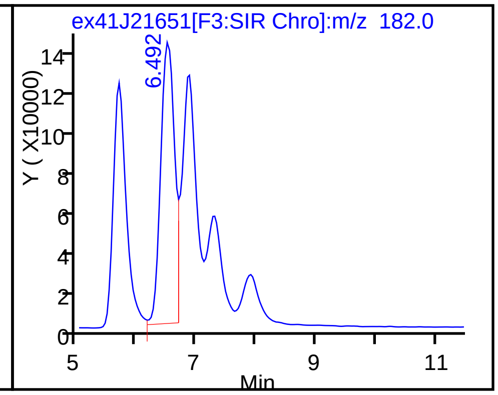
13 3,4-Dinitrotoluene



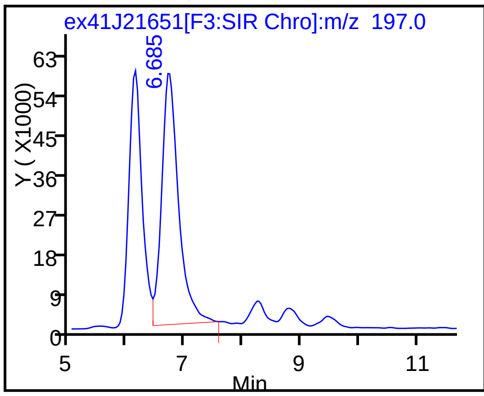
14 4-Amino-2,6-dinitrotoluene



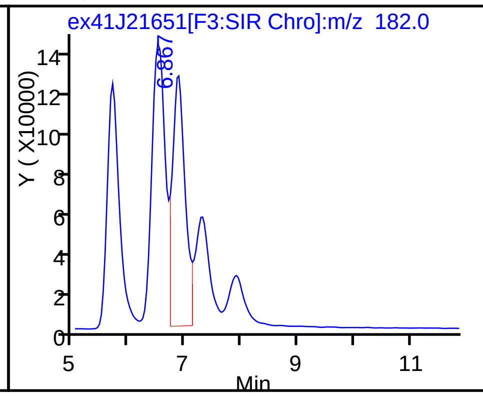
15 2,3-Dinitrotoluene



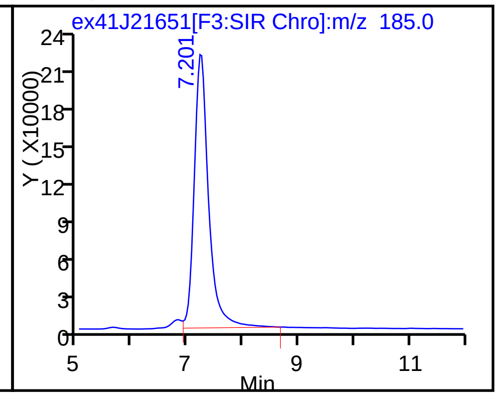
16 2-Amino-4,6-dinitrotoluene



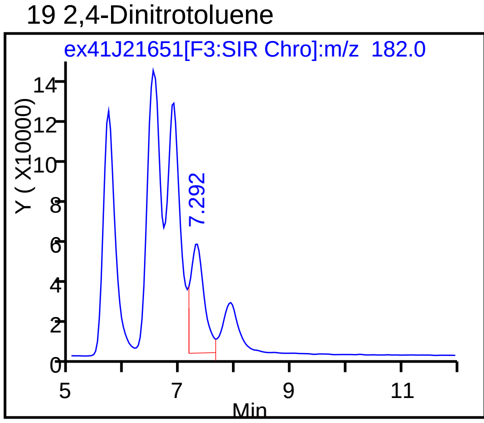
17 2,6-Dinitrotoluene



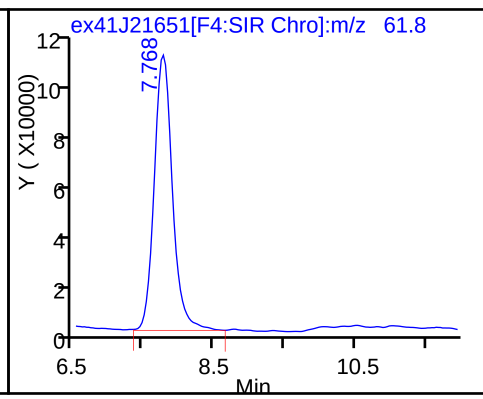
* 18 2,4-dinitrotoluene-d3



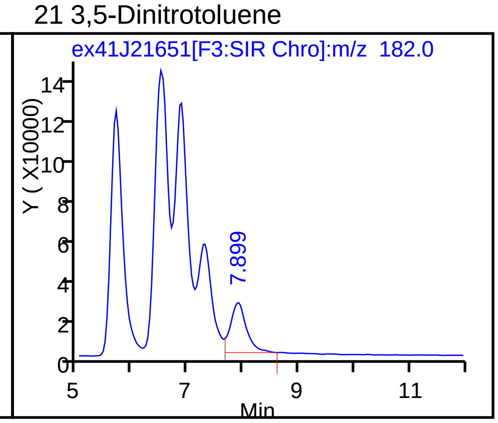
19 2,4-Dinitrotoluene



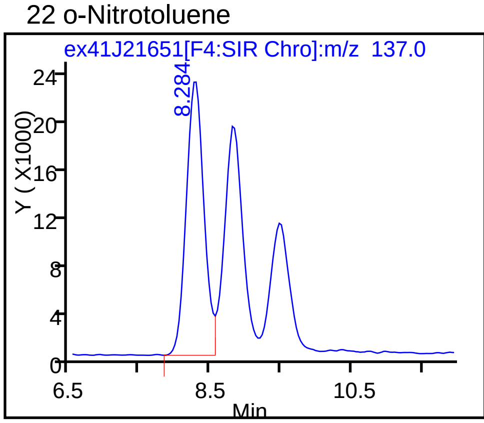
20 PETN



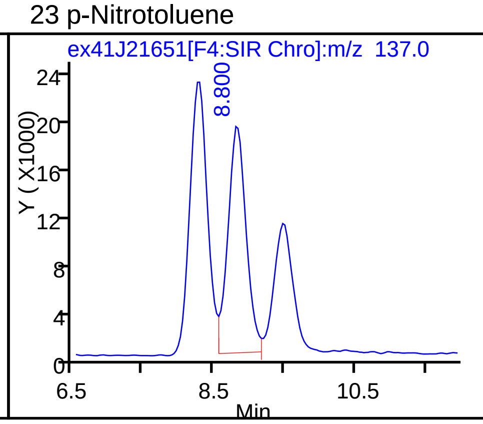
21 3,5-Dinitrotoluene



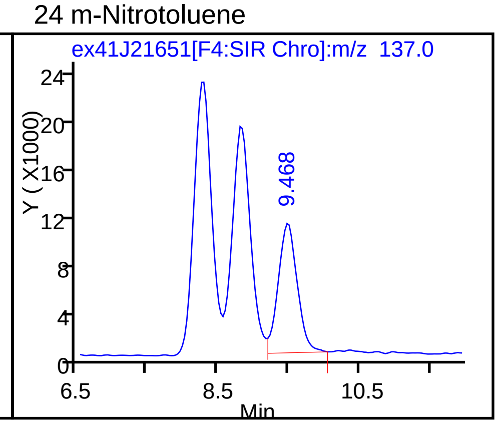
22 o-Nitrotoluene



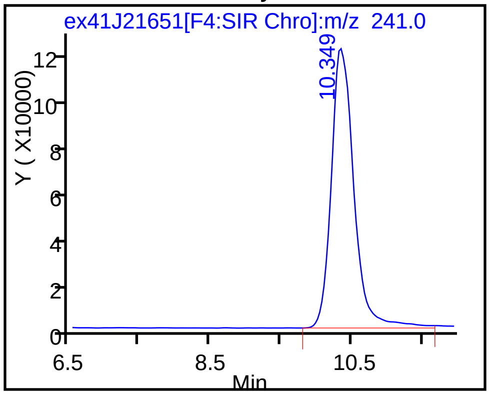
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94252/184   Calibration Date: 11/02/2011 10:01

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21660.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.398		107	100	6.9	20.0
RDX	Lin1		1.070		111	98.7	12.4	20.0
1,3,5-Trinitrobenzene	Lin1		1.192		100	100	0.2	20.0
Tetryl	Lin1		1.307		94.0	99.4	-5.4	20.0
1,3-Dinitrobenzene	Lin1		1.174		106	101	4.3	20.0
Nitroglycerin	Lin1		6.981		104	100	3.9	30.0
2,4,6-Trinitrotoluene	Lin1		5.508		111	100	11.1	20.0
Nitrobenzene	Lin1		0.9809		96.4	99.9	-3.5	20.0
3,4-Dinitrotoluene	Lin1		2.889		125	100	25.4	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.454		121	98.7	22.2*	20.0
2,3-Dinitrotoluene	Lin1		3.297		109	100	8.9	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.822		124	100	24.3*	20.0
2,6-Dinitrotoluene	Lin1		3.231		122	100	21.5*	20.0
2,4-Dinitrotoluene	Lin1		1.438		113	100	12.7	20.0
PETN	Lin1		2.244		114	99.8	14.6	30.0
3,5-Dinitrotoluene	Lin1		0.7114		109	100	9.3	30.0
2-Nitrotoluene	Lin1		0.5581		104	99.1	4.9	20.0
4-Nitrotoluene	Lin1		0.4850		102	99.5	2.3	20.0
3-Nitrotoluene	Lin1		0.3014		102	98.8	2.9	20.0
2,4,6-Trinitro-3-xylene	Lin1		11.12		100	100	0.4	30.0
Nitrobenzene-d5	Lin1		1.268		99.3	100	-0.7	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21660.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	02-Nov-2011 10:01:01	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/01/11EX5 CCV 100 ug/L 280-0002689-184		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	94252	Lims Sample ID:	184
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:39	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	02-Nov-2011 10:21:37

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	365172	106.9			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		380675	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1409235	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	595494	110.9			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	582606	100.3			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	634514	94.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1263585	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	581344	105.8			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	3409515	103.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.439	0.000	1.098	2692887	111.2			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	619209	99.3			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	478603	96.4			
13 3,4-Dinitrotoluene										
3	182.0	5.684	5.684	0.000	0.789	4096207	125.4			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.850	2033861	120.6			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.902	4673076	108.9			
16 2-Amino-4,6-dinitrotoluene										M
3	197.0	6.685	6.685	0.000	0.928	2585014	124.4			M
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	4584952	121.6			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		3543875	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.262	0.000	1.008	2044498	113.0			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	3174357	114.4			
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.869	0.000	1.093	1008464	109.3			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	783950	104.0			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	684013	101.8			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	422119	101.7			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.349	10.349	0.000	1.000	5430435	100.4			

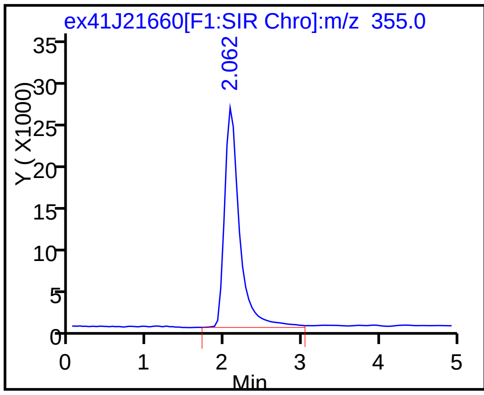
QC Flag Legend

Review Flags
M - Manually Integrated

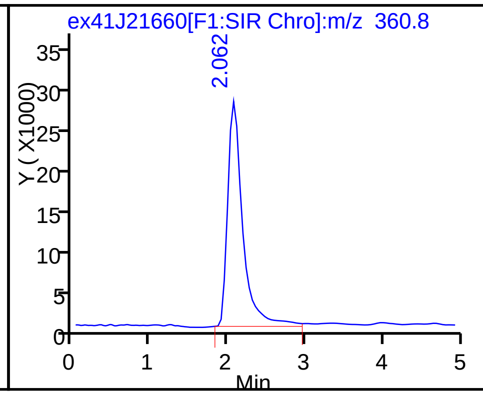
Report Date: 02-Nov-2011 10:22:40 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21660.d

Injection Date:	02-Nov-2011 10:01:01	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	184
Operator ID:		Injection Vol:	40.00 ul

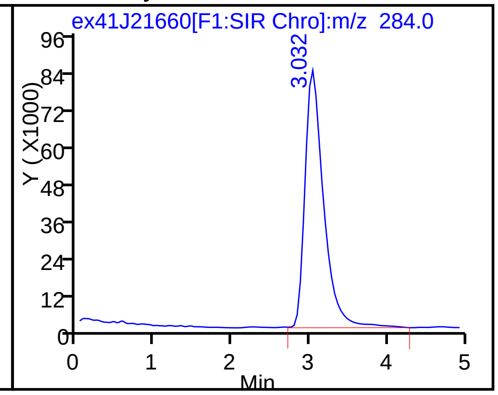
2 HMX



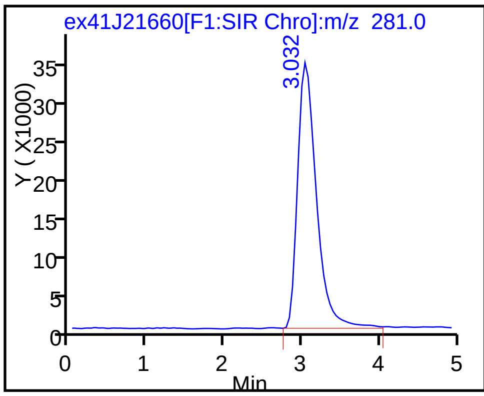
* 1 HMX-13C4



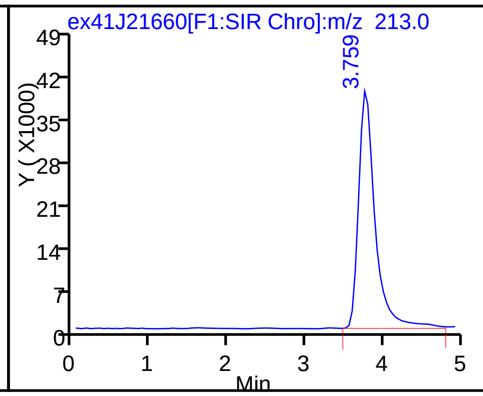
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



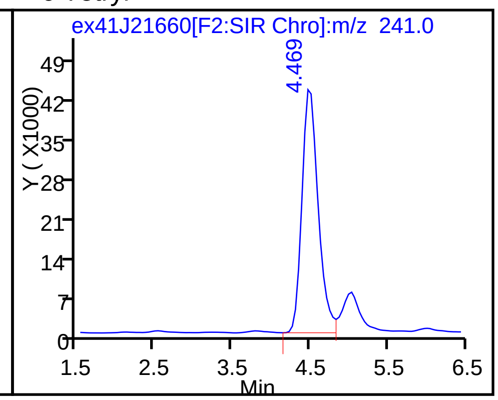
4 RDX



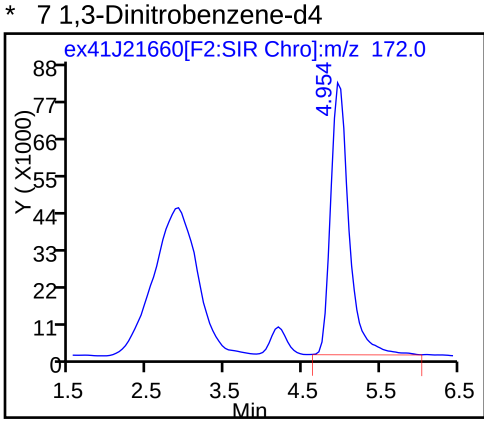
5 1,3,5-Trinitrobenzene



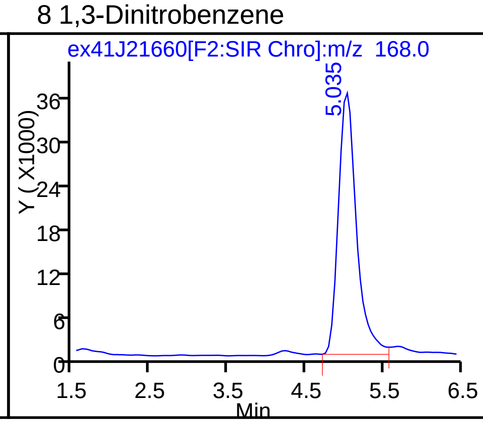
6 Tetryl



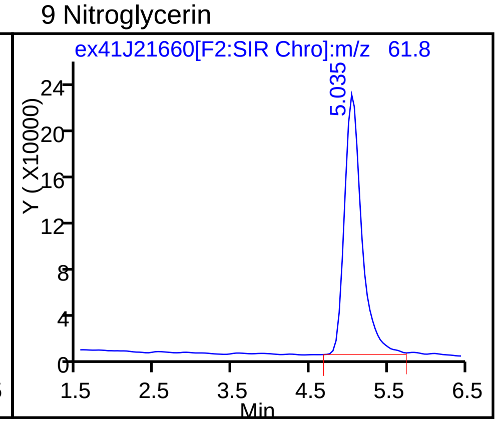
* 7 1,3-Dinitrobenzene-d4



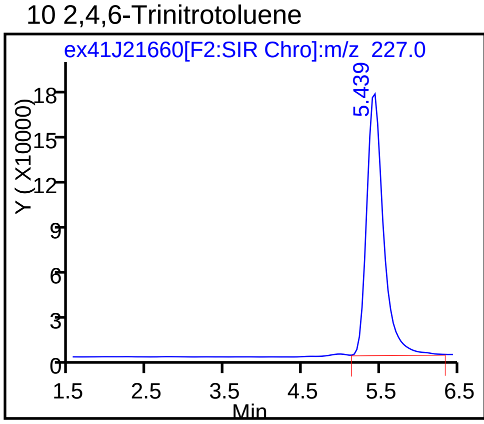
8 1,3-Dinitrobenzene



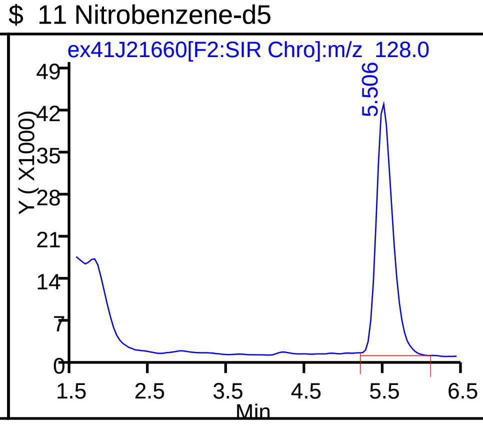
9 Nitroglycerin



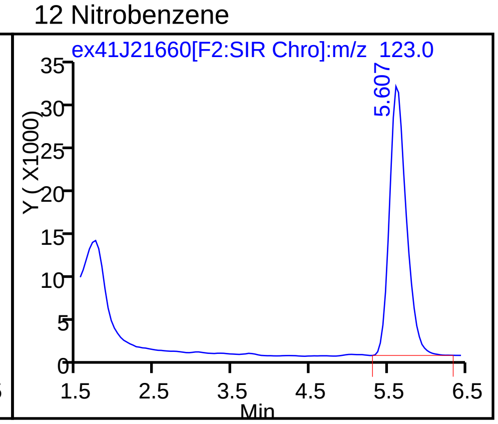
10 2,4,6-Trinitrotoluene



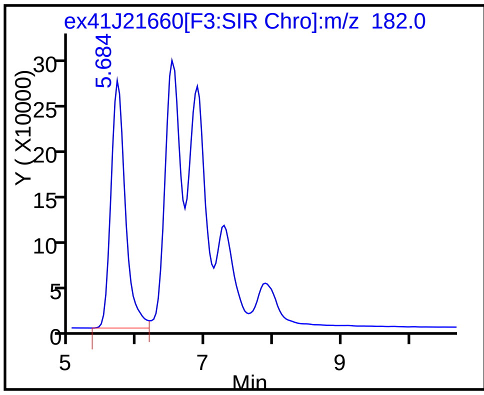
$ 11 Nitrobenzene-d5



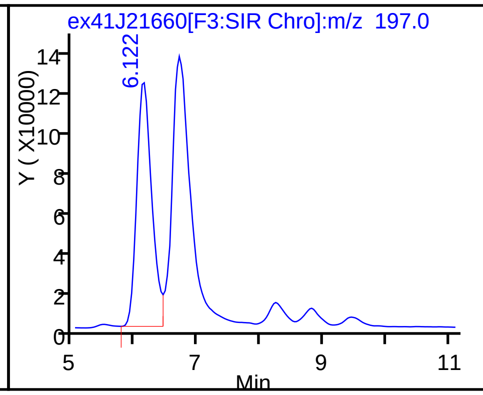
12 Nitrobenzene



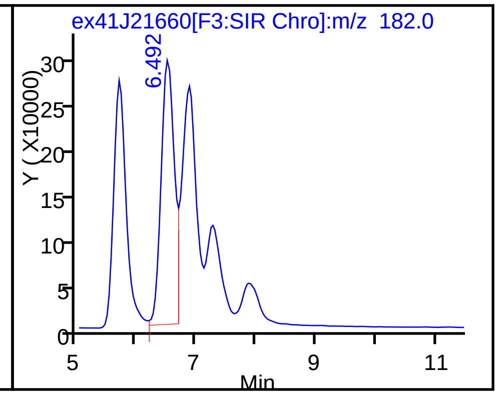
13 3,4-Dinitrotoluene



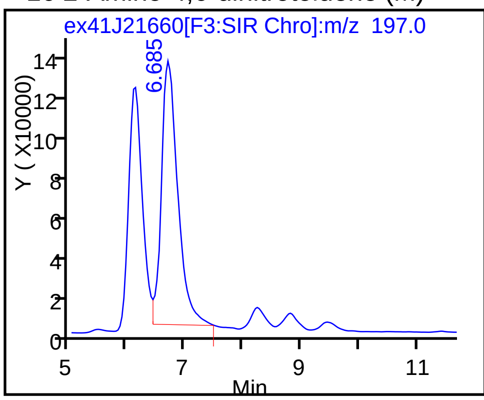
14 4-Amino-2,6-dinitrotoluene



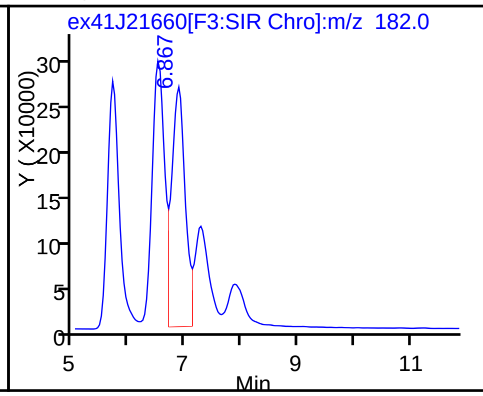
15 2,3-Dinitrotoluene



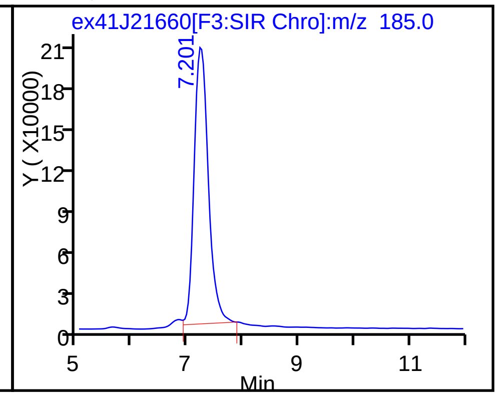
16 2-Amino-4,6-dinitrotoluene (M)



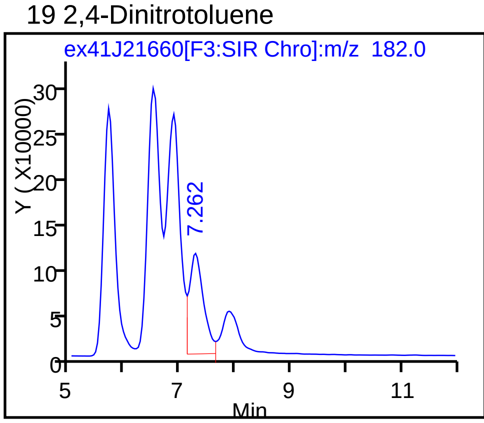
17 2,6-Dinitrotoluene



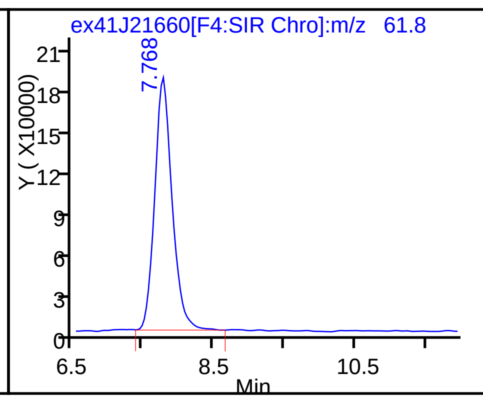
* 18 2,4-dinitrotoluene-d3



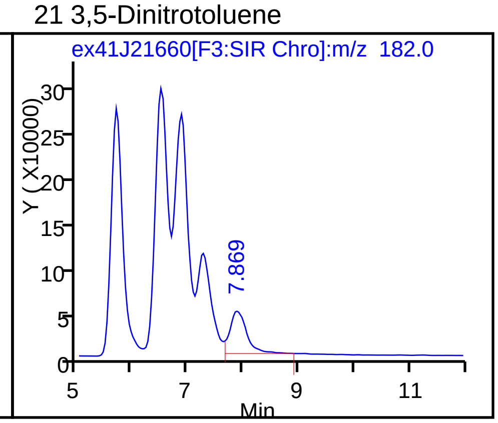
19 2,4-Dinitrotoluene



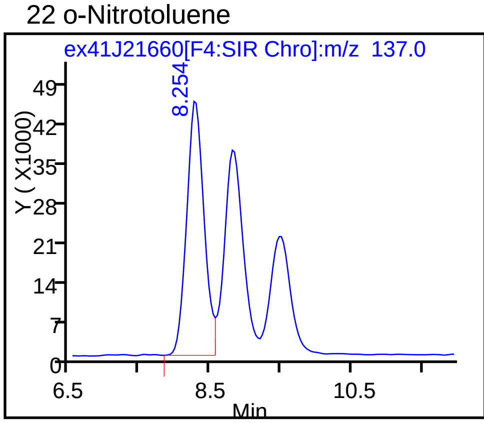
20 PETN



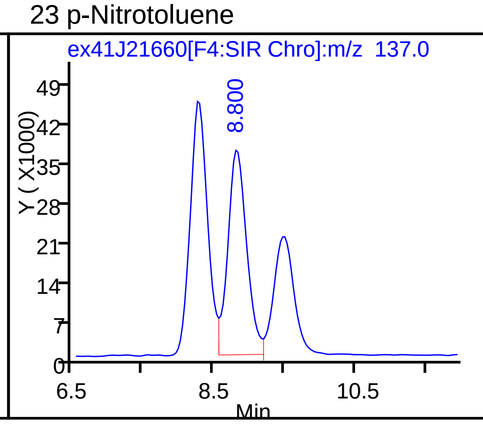
21 3,5-Dinitrotoluene



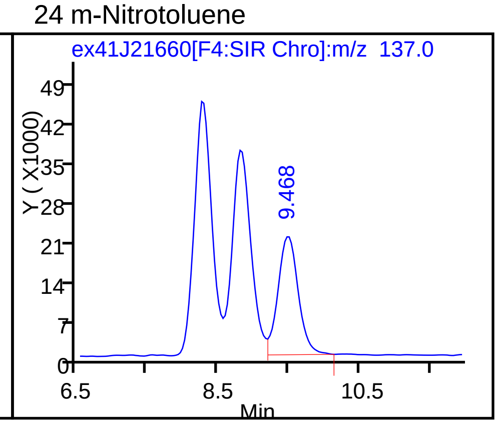
22 o-Nitrotoluene



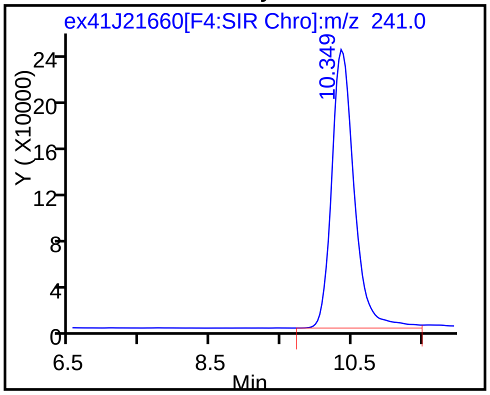
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



Report Date: 02-Nov-2011 10:22:40 Chrom Revision: 1.2 13-Jul-2011 10:43:06

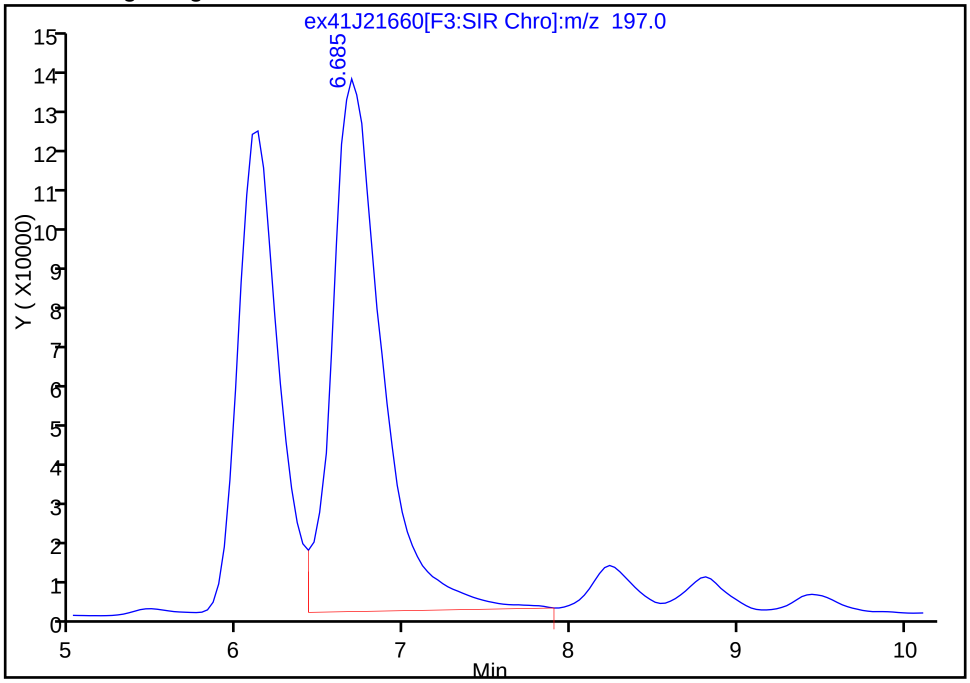
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21660.d		
Injection Date:	02-Nov-2011 10:01:01	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	184
Operator ID:		Injection Vol:	40.00 ul

16 2-Amino-4,6-dinitrotoluene, Signal: 1, m/z: 197.0 Type: quant, RT: 6.68, Det: F3:SIR

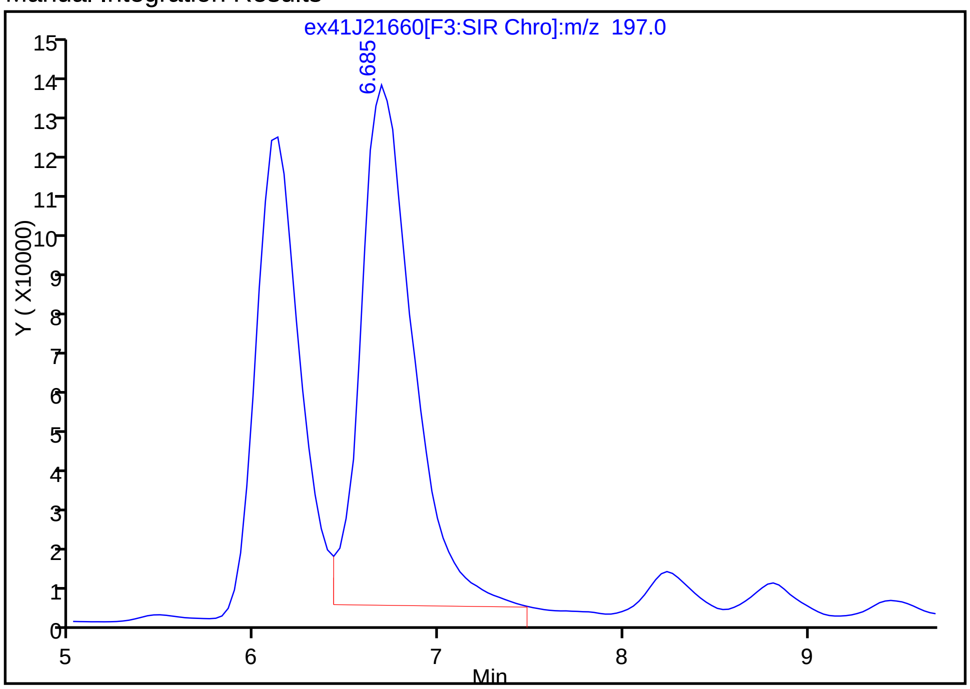
Processing Integration Results

RT: 6.68
Response: 2773660
Amount: 133.4598



Manual Integration Results

RT: 6.68
Response: 2585014
Amount: 124.3613



Reviewer: meyera, 02-Nov-2011 10:21:37
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94610/1 Calibration Date: 11/03/2011 11:48

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21750.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.036		45.8	50.0	-8.4	20.0
RDX	Lin1		1.014		52.4	49.4	6.2	20.0
1,3,5-Trinitrobenzene	Lin1		1.077		46.6	50.1	-6.9	20.0
Tetryl	Lin1		1.425		52.1	49.7	4.8	20.0
1,3-Dinitrobenzene	Lin1		0.9733		44.1	50.7	-13.0	20.0
Nitroglycerin	Lin1		6.250		47.1	50.0	-5.8	30.0
2,4,6-Trinitrotoluene	Lin1		4.551		46.3	50.1	-7.5	20.0
Nitrobenzene	Lin1		0.9096		44.8	50.0	-10.3	20.0
3,4-Dinitrotoluene	Lin1		2.240		48.5	50.0	-3.0	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.151		47.8	49.4	-3.1	20.0
2,3-Dinitrotoluene	Lin1		2.897		47.7	50.0	-4.6	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.595		54.2	50.1	8.3	20.0
2,6-Dinitrotoluene	Lin1		2.606		49.0	50.1	-2.1	20.0
2,4-Dinitrotoluene	Lin1		1.143		45.0	50.2	-10.3	20.0
PETN	Lin1		2.210		55.3	49.9	10.8	30.0
3,5-Dinitrotoluene	Lin1		0.5700		44.5	50.0	-11.0	30.0
2-Nitrotoluene	Lin1		0.5144		47.8	49.6	-3.5	20.0
4-Nitrotoluene	Lin1		0.4403		46.4	49.8	-6.7	20.0
3-Nitrotoluene	Lin1		0.2796		47.1	49.4	-4.7	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.13		45.8	50.0	-8.4	30.0
Nitrobenzene-d5	Lin1		1.100		42.8	50.0	-14.4	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21750.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	03-Nov-2011 11:48:40	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/03/11EX4 CCV 50 ug/L 280-0002711-001		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94610	Lims Sample ID:	1
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

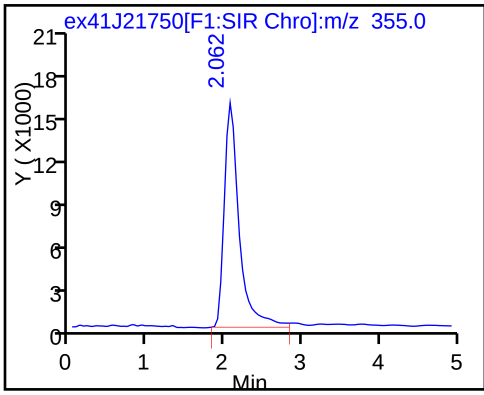
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	206852	45.8			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		507926	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	2.991	0.000		1840715	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.013	368515	52.4			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	286660	46.6			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	376743	52.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1376172	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.016	262470	44.1			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	1662175	47.1			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	1211686	46.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	292744	42.8			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	241666	44.8			
13 3,4-Dinitrotoluene										
3	182.0	5.617	5.617	0.000	0.787	1828924	48.5			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.021	6.021	0.000	0.843	927028	47.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.425	0.000	0.900	2363522	47.7			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.624	0.000	0.928	1302602	54.2			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.776	0.000	0.949	2129165	49.0			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4080591	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.201	0.000	1.009	935995	45.0			
20 PETN										
4	61.8	7.646	7.646	0.000	1.000	1799952	55.3			
21 3,5-Dinitrotoluene										
3	182.0	7.778	7.778	0.000	1.089	465167	44.5			
22 o-Nitrotoluene										
4	137.0	8.162	8.162	0.000	1.000	416009	47.8			
23 p-Nitrotoluene										
4	137.0	8.709	8.709	0.000	1.000	357514	46.4			
24 m-Nitrotoluene										
4	137.0	9.377	9.377	0.000	1.000	225412	47.1			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.227	10.227	0.000	1.000	2693063	45.8			

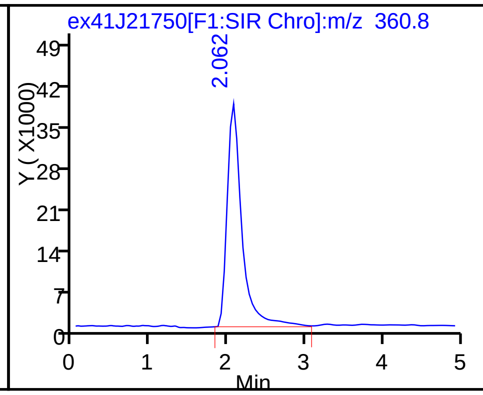
Report Date: 04-Nov-2011 06:46:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21750.d

Injection Date:	03-Nov-2011 11:48:40	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	1
Operator ID:		Injection Vol:	40.00 ul

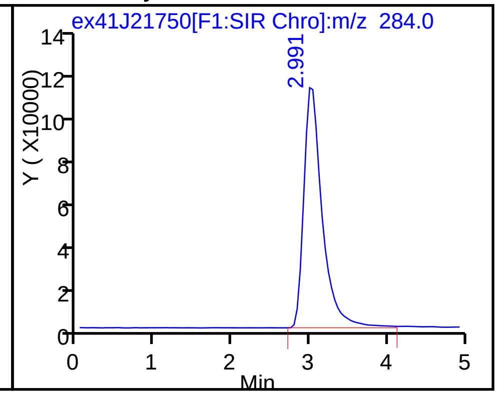
2 HMX



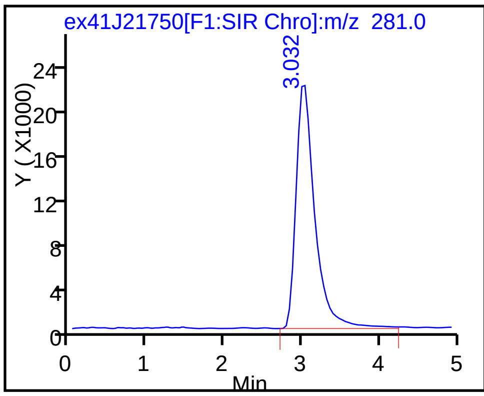
* 1 HMX-13C4



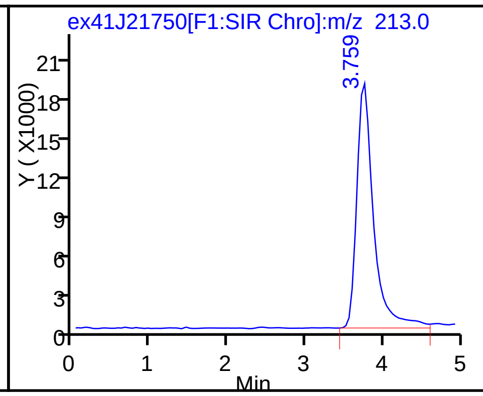
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



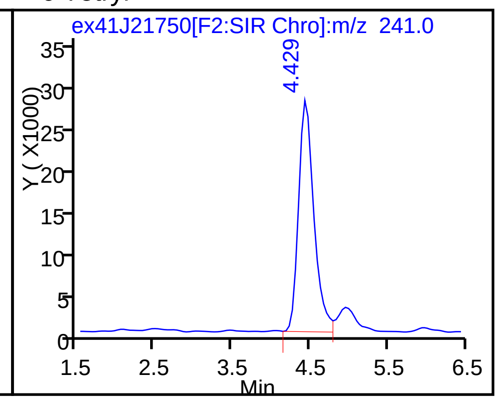
4 RDX



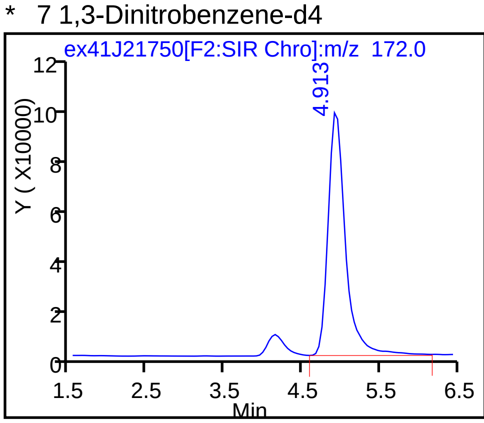
5 1,3,5-Trinitrobenzene



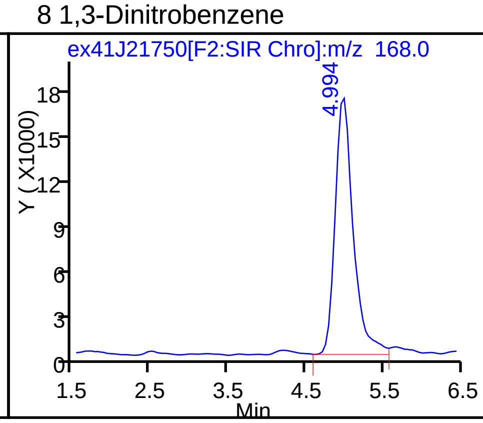
6 Tetryl



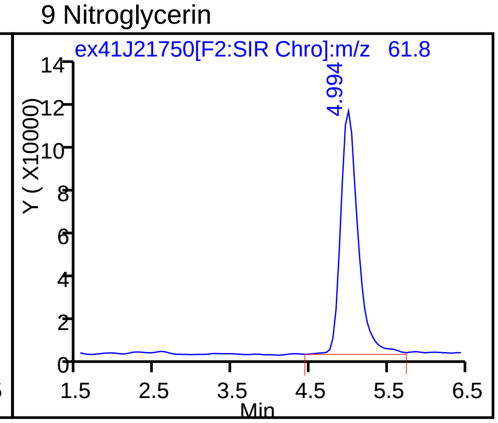
* 7 1,3-Dinitrobenzene-d4



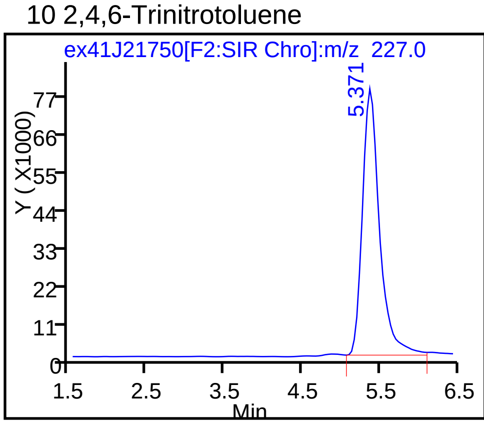
8 1,3-Dinitrobenzene



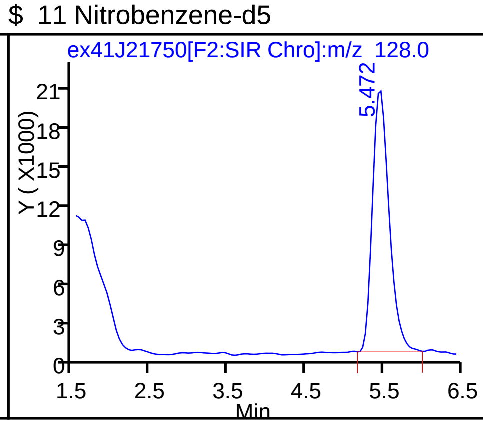
9 Nitroglycerin



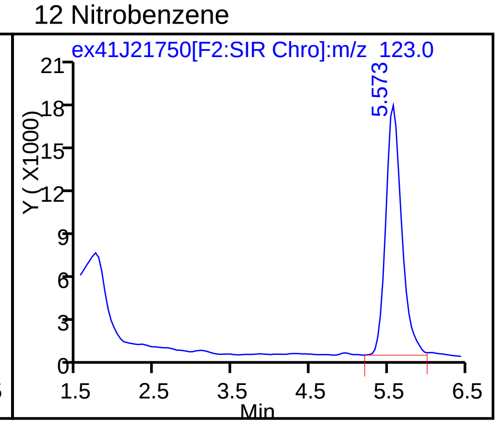
10 2,4,6-Trinitrotoluene



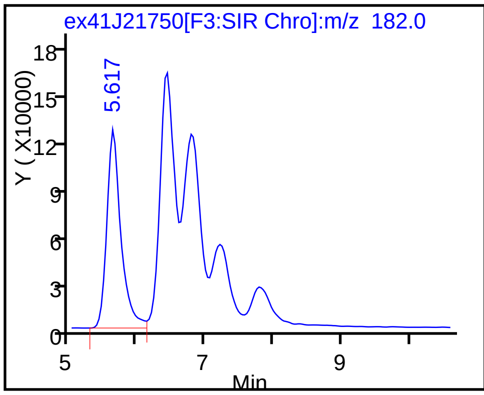
$ 11 Nitrobenzene-d5



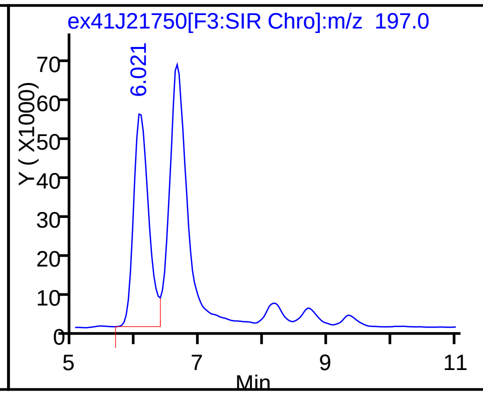
12 Nitrobenzene



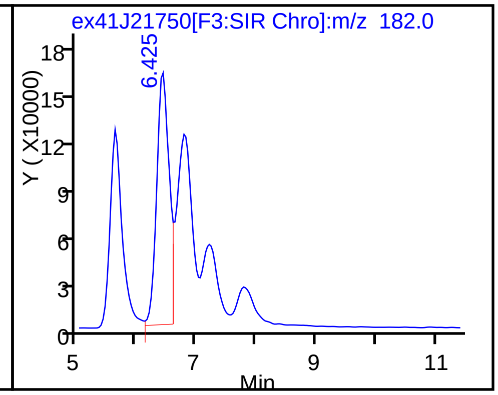
13 3,4-Dinitrotoluene



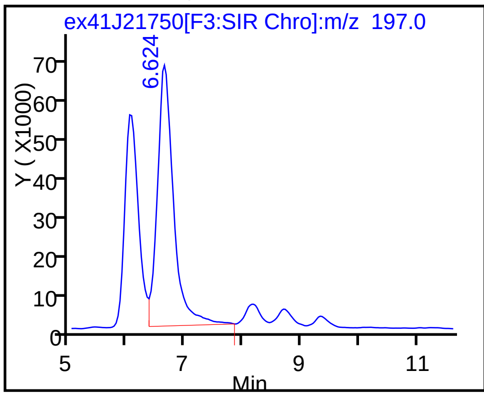
14 4-Amino-2,6-dinitrotoluene



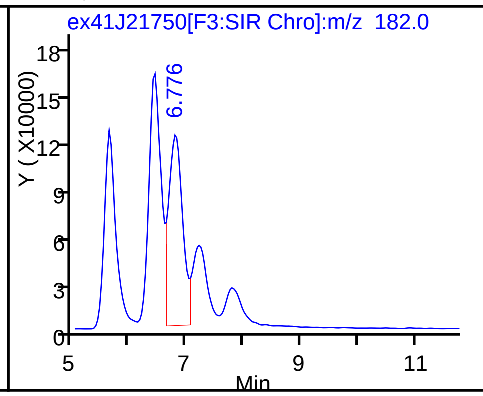
15 2,3-Dinitrotoluene



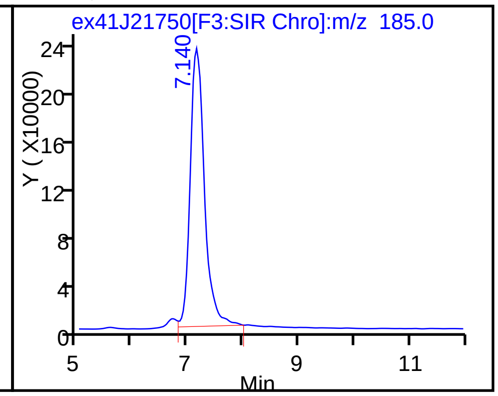
16 2-Amino-4,6-dinitrotoluene



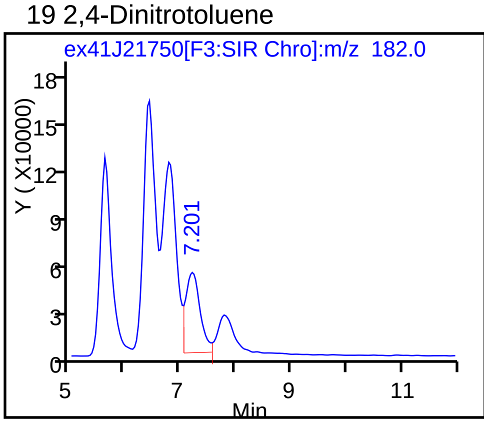
17 2,6-Dinitrotoluene



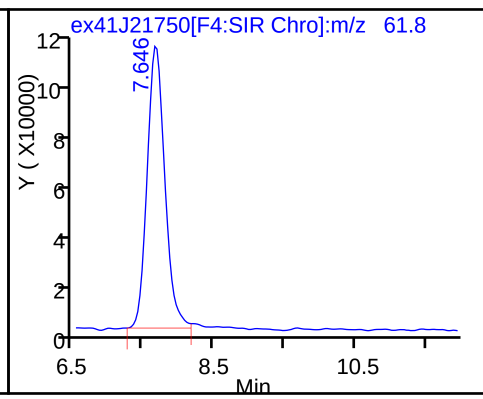
* 18 2,4-dinitrotoluene-d3



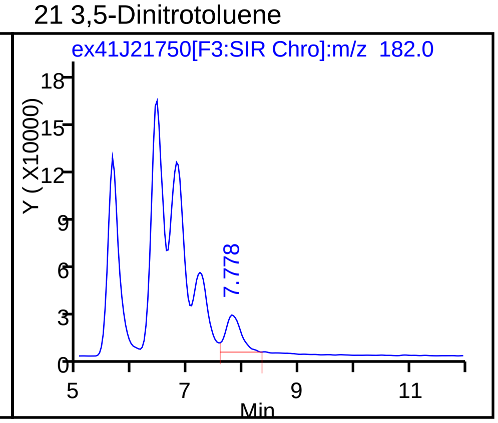
19 2,4-Dinitrotoluene



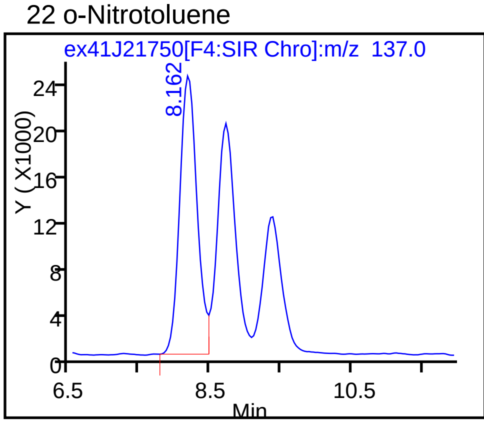
20 PETN



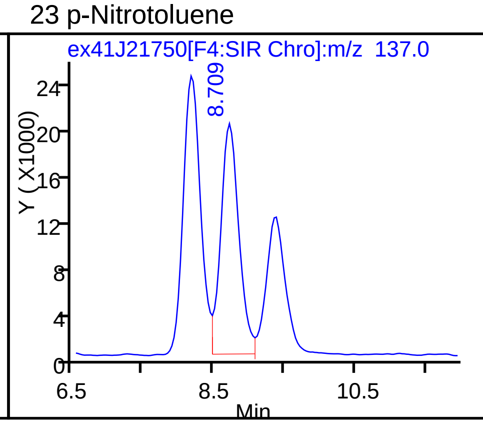
21 3,5-Dinitrotoluene



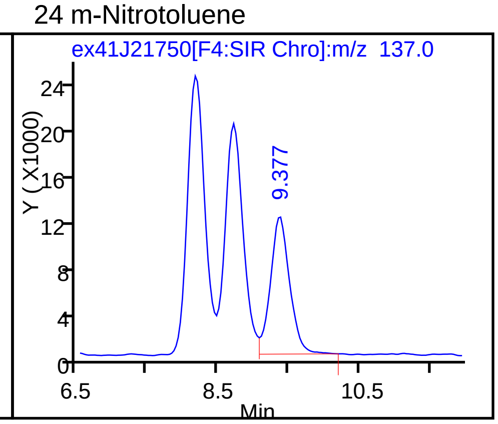
22 o-Nitrotoluene



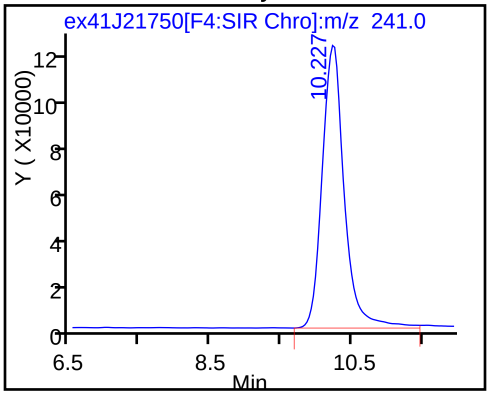
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94610/10 Calibration Date: 11/03/2011 13:52

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21759.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.080		92.8	100	-7.2	20.0
RDX	Lin1		0.9770		101	98.7	2.5	20.0
1,3,5-Trinitrobenzene	Lin1		1.130		95.2	100	-4.9	20.0
Tetryl	Lin1		1.447		104	99.4	4.5	20.0
1,3-Dinitrobenzene	Lin1		1.031		93.0	101	-8.3	20.0
Nitroglycerin	Lin1		6.363		94.8	100	-5.2	30.0
2,4,6-Trinitrotoluene	Lin1		4.695		94.9	100	-5.2	20.0
Nitrobenzene	Lin1		0.8955		88.1	99.9	-11.8	20.0
3,4-Dinitrotoluene	Lin1		2.093		90.8	100	-9.2	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.075		89.2	98.7	-9.6	20.0
2,3-Dinitrotoluene	Lin1		2.731		90.1	100	-9.9	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.447		98.7	100	-1.4	20.0
2,6-Dinitrotoluene	Lin1		2.535		95.4	100	-4.7	20.0
2,4-Dinitrotoluene	Lin1		1.182		92.9	100	-7.4	20.0
PETN	Lin1		2.090		106	99.8	6.6	30.0
3,5-Dinitrotoluene	Lin1		0.5802		89.3	100	-10.7	30.0
2-Nitrotoluene	Lin1		0.4907		91.4	99.1	-7.8	20.0
4-Nitrotoluene	Lin1		0.4182		87.8	99.5	-11.8	20.0
3-Nitrotoluene	Lin1		0.2722		91.8	98.8	-7.1	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.72		96.8	100	-3.2	30.0
Nitrobenzene-d5	Lin1		1.133		88.7	100	-11.3	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21759.d
Lims ID: CCV
Client ID:
Inject. Date: 03-Nov-2011 13:52:14
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 11/03/11EX5 CCV 100 ug/L 280-0002711-010
Misc. Info.: ex41J21 0.1%HAC
Operator:
Instrument ID: LC_LCMS4
Vol. Injected: 40.0000
ALS Bottle#: 6
Lims Batch ID: 94610
Lims Sample ID: 10
Sublist: chrom-8321exp4-25*sub3
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m
Last Update: 04-Nov-2011 06:46:37
Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

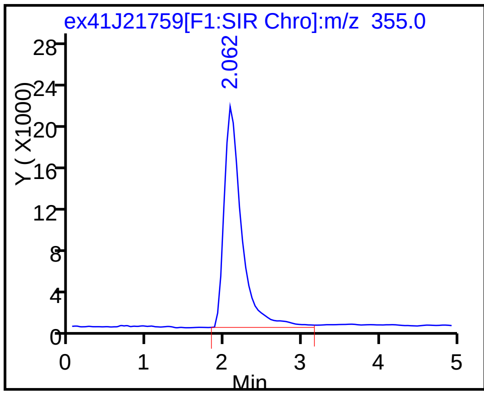
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	336324	92.8			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		404315	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	2.991	0.000		1806122	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.013	696645	101.2			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	555052	95.2			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	706101	103.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1269965	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.016	512974	93.0			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	3123235	94.8			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	2306703	94.9			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	556256	88.7			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	439132	88.1			
13 3,4-Dinitrotoluene										
3	182.0	5.651	5.651	0.000	0.791	3292912	90.8			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.848	1667811	89.2			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.425	0.000	0.900	4293353	90.1			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.624	0.000	0.928	2277572	98.7			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.953	3991274	95.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		3931547	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.231	0.000	1.013	1864863	92.9			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	3280334	106.4			
21 3,5-Dinitrotoluene										
3	182.0	7.808	7.808	0.000	1.094	912439	89.3			
22 o-Nitrotoluene										
4	137.0	8.162	8.162	0.000	1.000	764673	91.4			
23 p-Nitrotoluene										
4	137.0	8.739	8.739	0.000	1.000	654357	87.8			
24 m-Nitrotoluene										
4	137.0	9.377	9.377	0.000	1.000	422847	91.8			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.227	10.227	0.000	1.000	5262344	96.8			

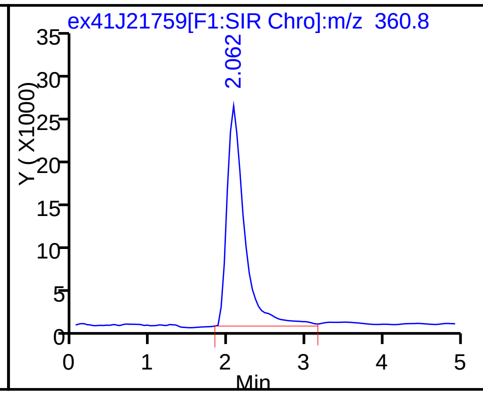
Report Date: 04-Nov-2011 06:46:37 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21759.d

Injection Date:	03-Nov-2011 13:52:14	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	10
Operator ID:		Injection Vol:	40.00 ul

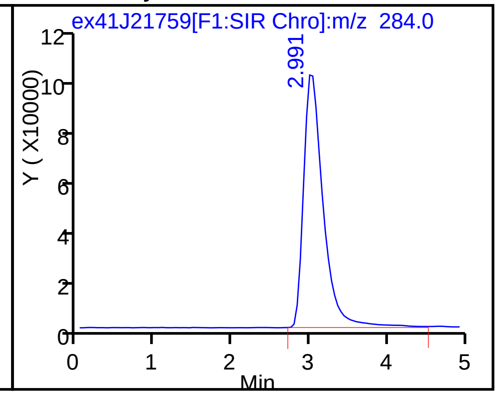
2 HMX



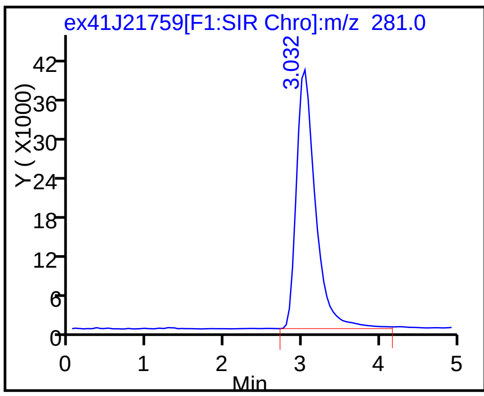
* 1 HMX-13C4



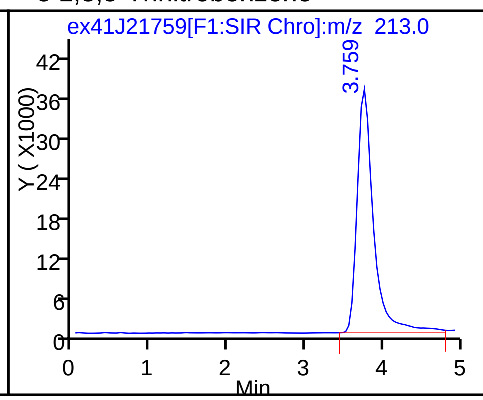
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



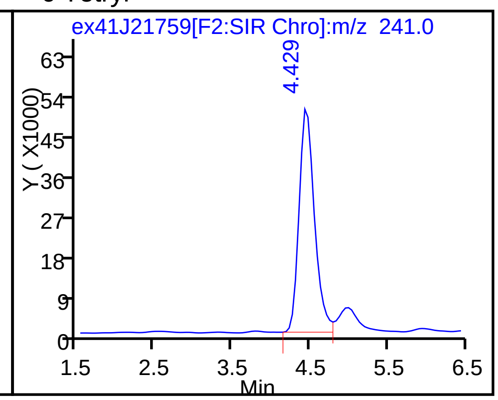
4 RDX



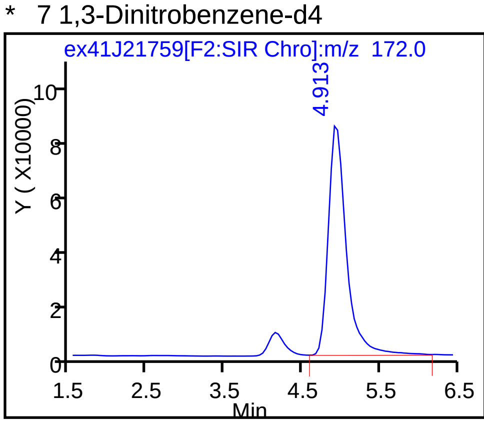
5 1,3,5-Trinitrobenzene



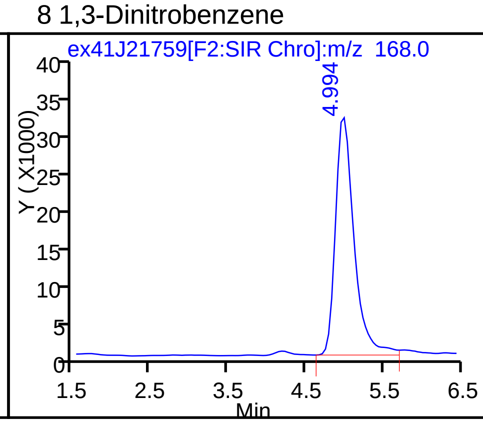
6 Tetryl



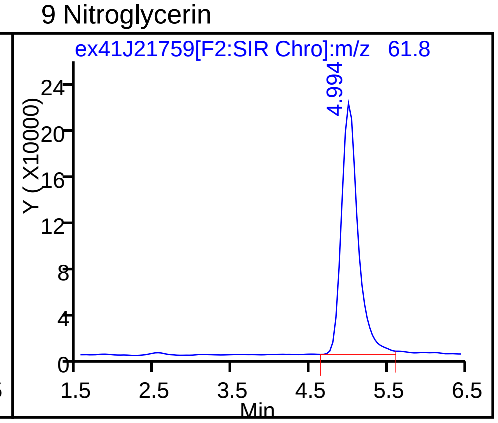
* 7 1,3-Dinitrobenzene-d4



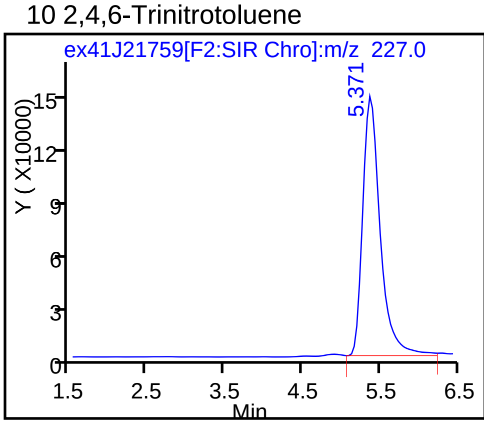
8 1,3-Dinitrobenzene



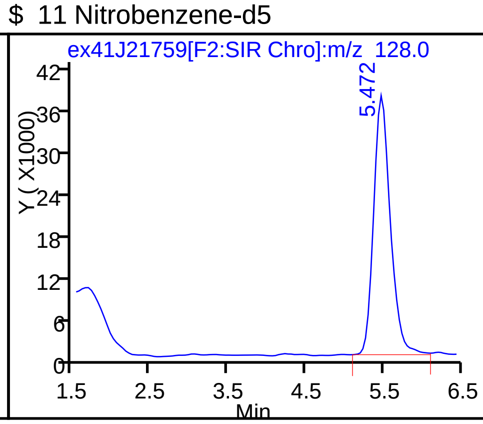
9 Nitroglycerin



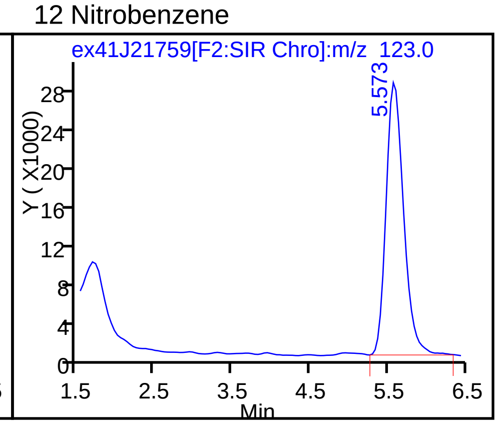
10 2,4,6-Trinitrotoluene



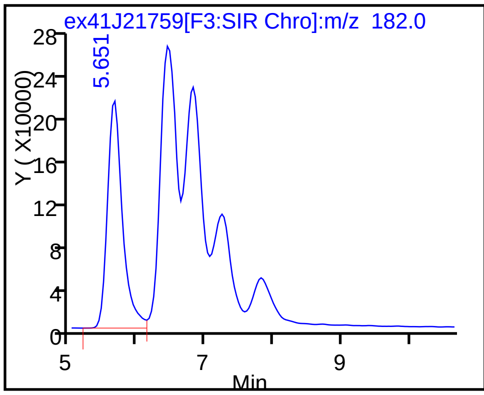
$ 11 Nitrobenzene-d5



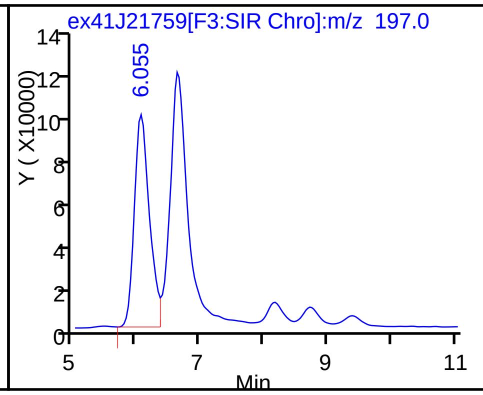
12 Nitrobenzene



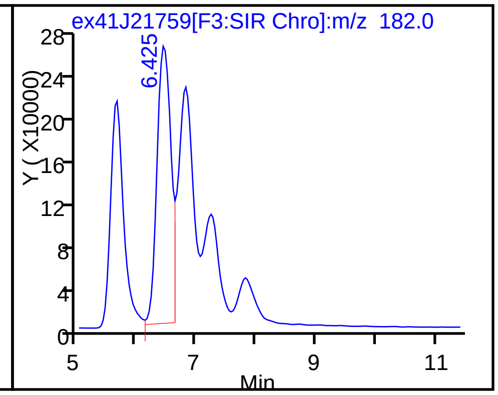
13 3,4-Dinitrotoluene



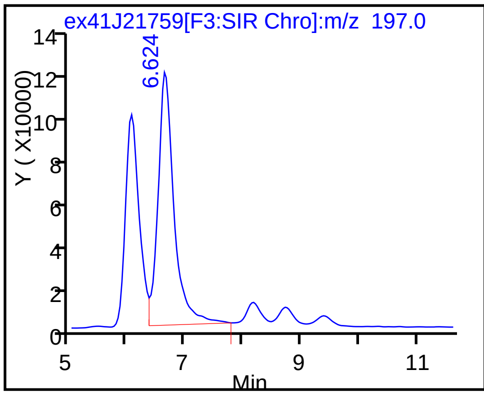
14 4-Amino-2,6-dinitrotoluene



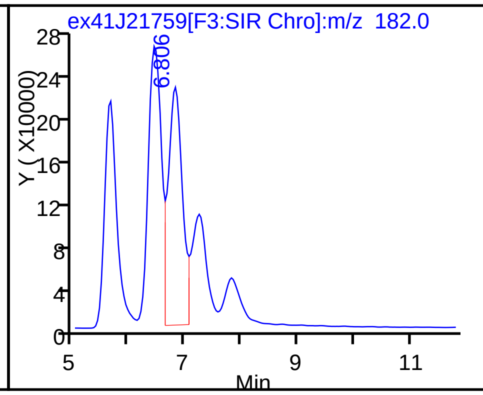
15 2,3-Dinitrotoluene



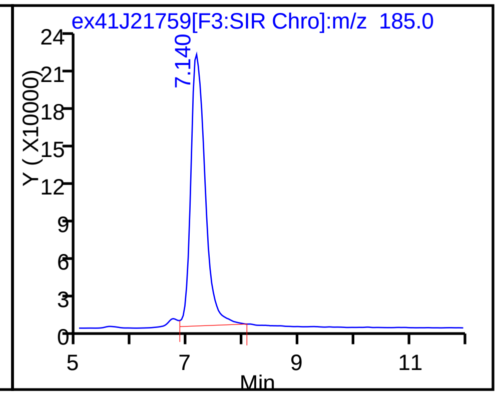
16 2-Amino-4,6-dinitrotoluene



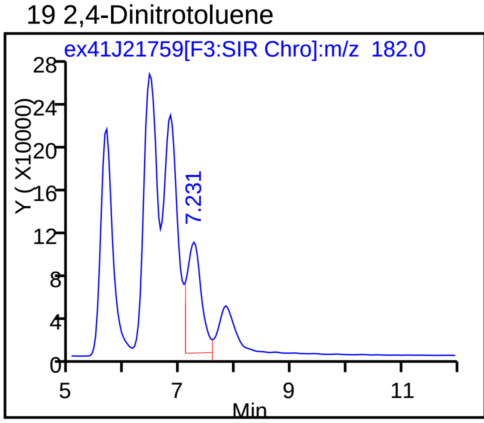
17 2,6-Dinitrotoluene



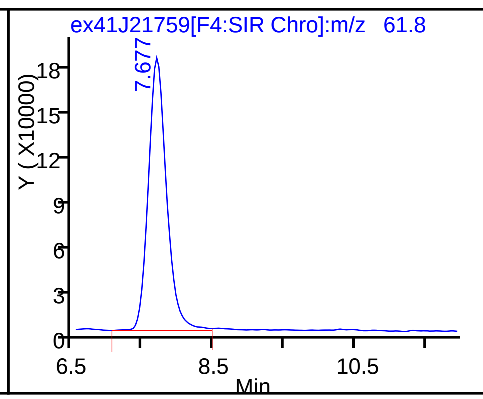
* 18 2,4-dinitrotoluene-d3



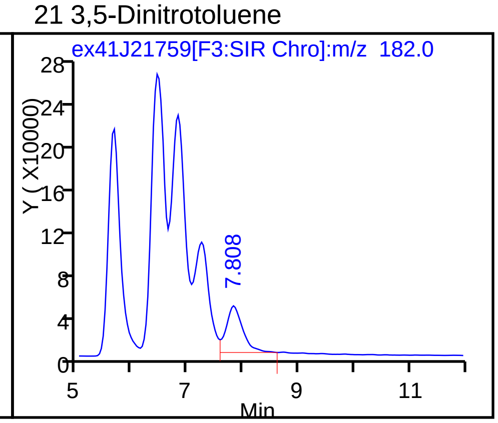
19 2,4-Dinitrotoluene



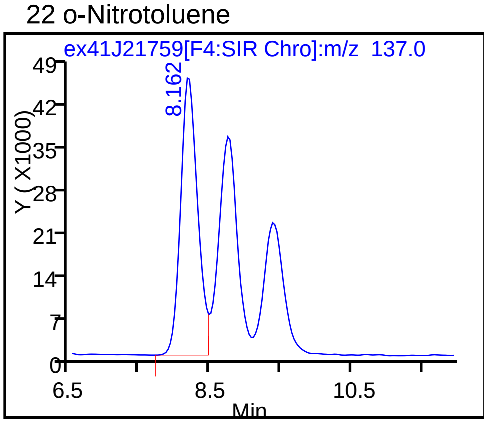
20 PETN



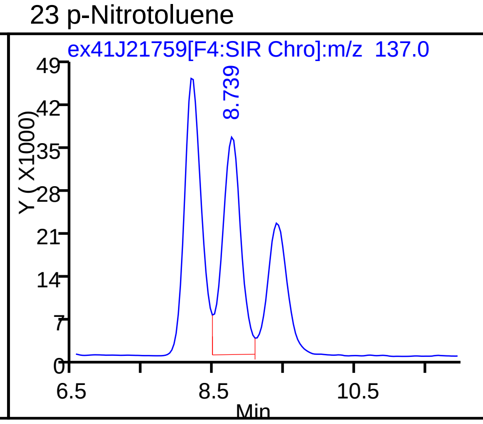
21 3,5-Dinitrotoluene



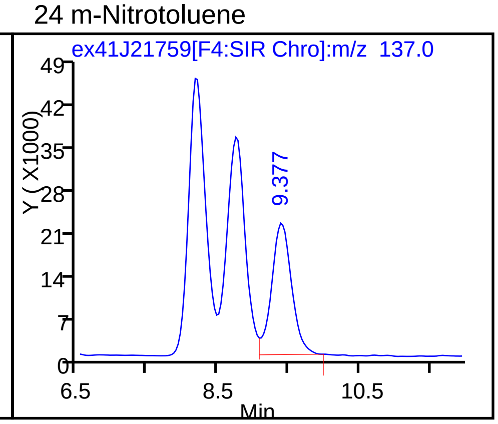
22 o-Nitrotoluene



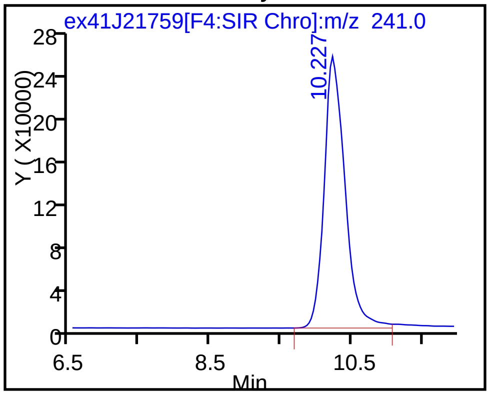
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94610/19   Calibration Date: 11/03/2011 15:55

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21768.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.087		46.9	50.0	-6.2	20.0
RDX	Lin1		0.9851		50.9	49.4	3.1	20.0
1,3,5-Trinitrobenzene	Lin1		1.168		50.3	50.1	0.5	20.0
Tetryl	Lin1		1.366		50.0	49.7	0.6	20.0
1,3-Dinitrobenzene	Lin1		1.097		49.6	50.7	-2.2	20.0
Nitroglycerin	Lin1		6.946		52.3	50.0	4.6	30.0
2,4,6-Trinitrotoluene	Lin1		5.023		51.0	50.1	1.9	20.0
Nitrobenzene	Lin1		0.9387		46.2	50.0	-7.5	20.0
3,4-Dinitrotoluene	Lin1		2.271		49.2	50.0	-1.6	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.172		48.7	49.4	-1.3	20.0
2,3-Dinitrotoluene	Lin1		3.165		52.1	50.0	4.2	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.646		56.0	50.1	11.9	20.0
2,6-Dinitrotoluene	Lin1		2.690		50.6	50.1	1.1	20.0
2,4-Dinitrotoluene	Lin1		1.233		48.5	50.2	-3.3	20.0
PETN	Lin1		2.213		55.4	49.9	11.0	30.0
3,5-Dinitrotoluene	Lin1		0.5658		44.2	50.0	-11.6	30.0
2-Nitrotoluene	Lin1		0.5121		47.6	49.6	-3.9	20.0
4-Nitrotoluene	Lin1		0.4294		45.2	49.8	-9.1	20.0
3-Nitrotoluene	Lin1		0.2783		46.9	49.4	-5.1	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.30		46.6	50.0	-6.8	30.0
Nitrobenzene-d5	Lin1		1.188		46.2	50.0	-7.6	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21768.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	03-Nov-2011 15:55:44	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/03/11EX4 CCV 50 ug/L 280-0002711-019		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94610	Lims Sample ID:	19
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:43	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

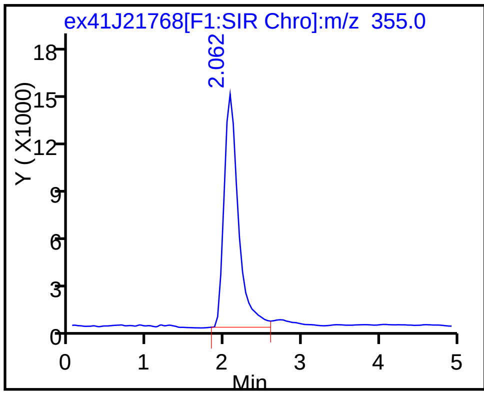
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	187725	46.9			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		449741	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1904995	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	370455	50.9			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	302478	50.3			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	351154	50.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1338355	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	287627	49.6			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.008	1796491	52.3			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	1300461	51.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	307277	46.2			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.125	242556	46.2			
13 3,4-Dinitrotoluene										
3	182.0	5.651	5.651	0.000	0.791	1794818	49.2			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.848	914184	48.7			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.459	6.459	0.000	0.905	2499594	52.1			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.932	1301720	56.0			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.953	2126970	50.6			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		3949929	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.231	0.000	1.013	976615	48.5			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	1744999	55.4			
21 3,5-Dinitrotoluene										
3	182.0	7.839	7.839	0.000	1.098	446957	44.2			
22 o-Nitrotoluene										
4	137.0	8.193	8.193	0.000	1.000	400935	47.6			
23 p-Nitrotoluene										
4	137.0	8.739	8.739	0.000	1.000	337557	45.2			
24 m-Nitrotoluene										
4	137.0	9.408	9.408	0.000	1.000	217196	46.9			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.258	10.258	0.000	1.000	2665196	46.6			

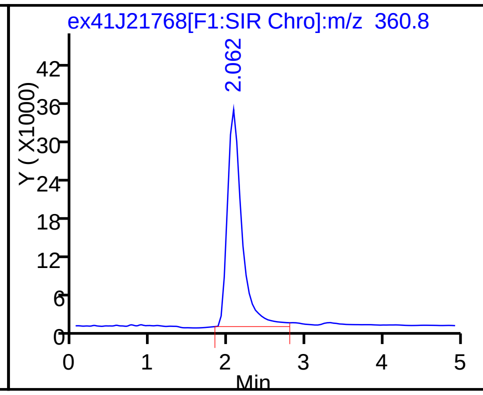
Report Date: 04-Nov-2011 06:46:43 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21768.d

Injection Date:	03-Nov-2011 15:55:44	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	19
Operator ID:		Injection Vol:	40.00 ul

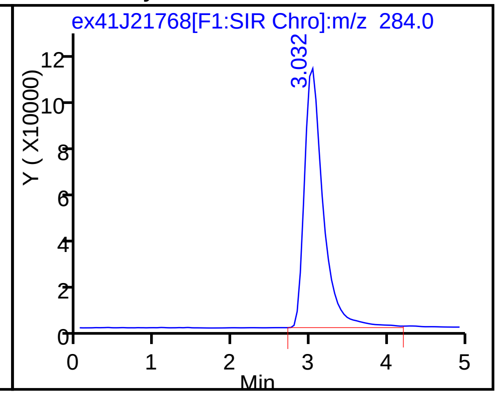
2 HMX



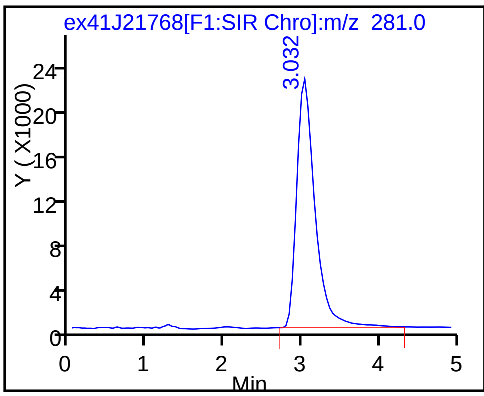
* 1 HMX-13C4



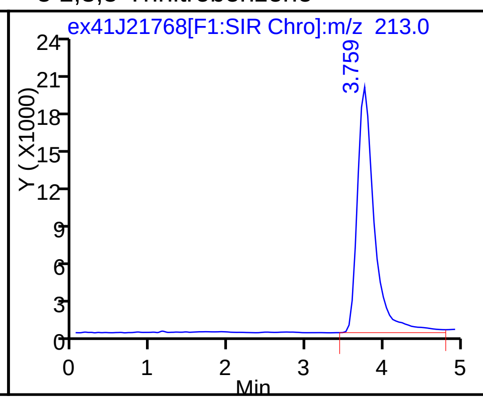
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



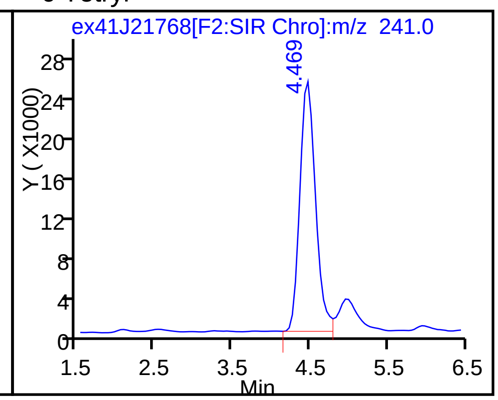
4 RDX



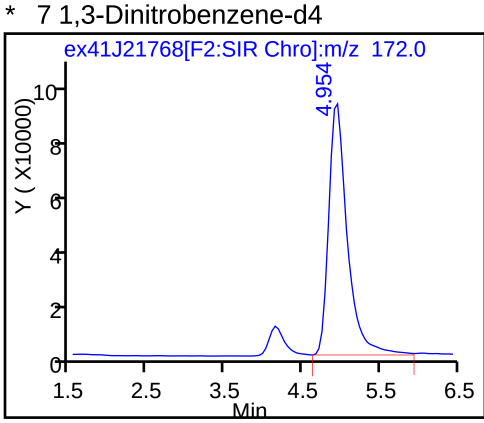
5 1,3,5-Trinitrobenzene



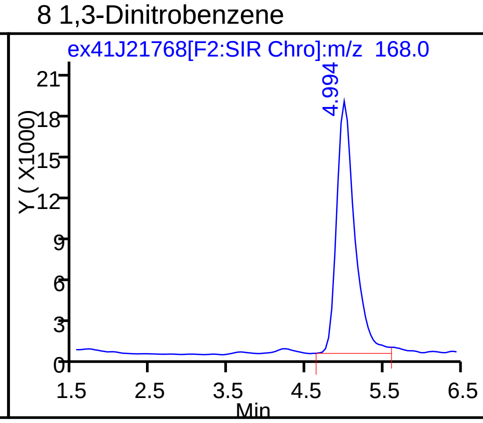
6 Tetryl



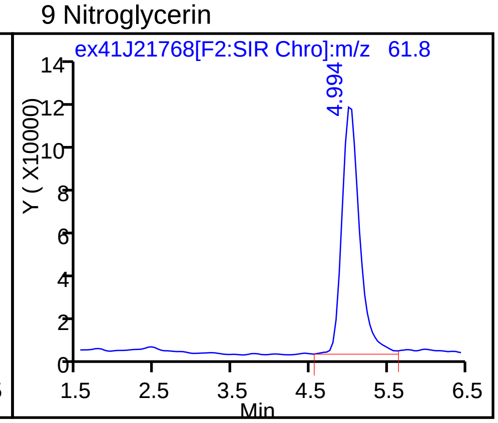
* 7 1,3-Dinitrobenzene-d4



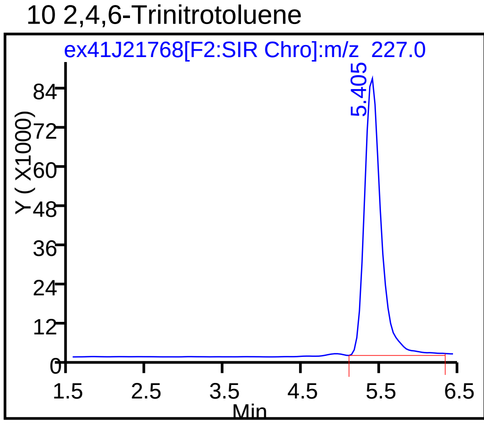
8 1,3-Dinitrobenzene



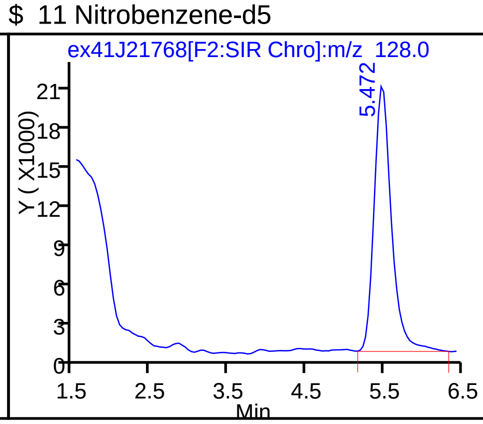
9 Nitroglycerin



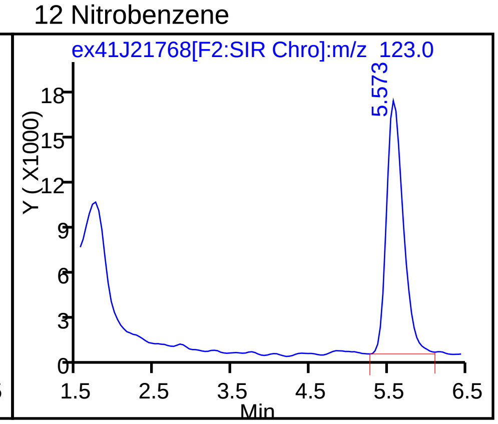
10 2,4,6-Trinitrotoluene



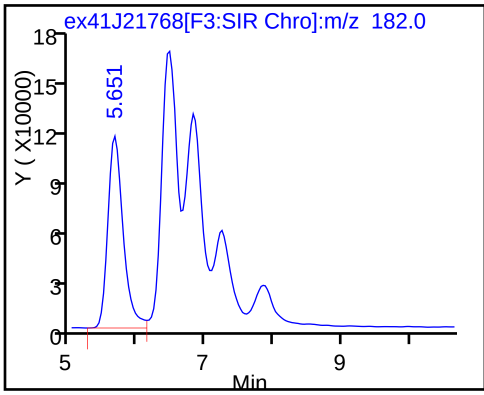
$ 11 Nitrobenzene-d5



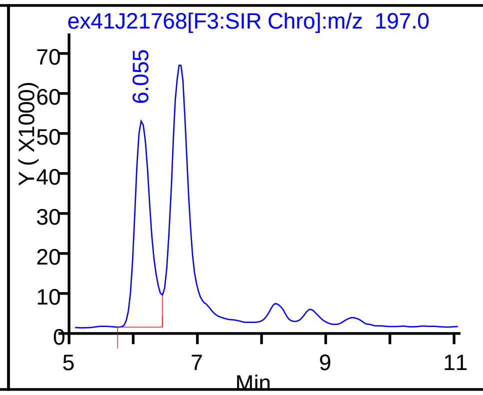
12 Nitrobenzene



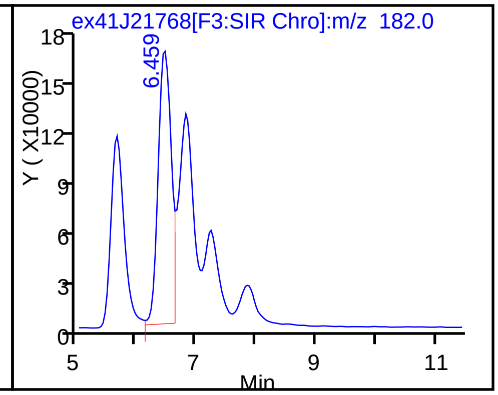
13 3,4-Dinitrotoluene



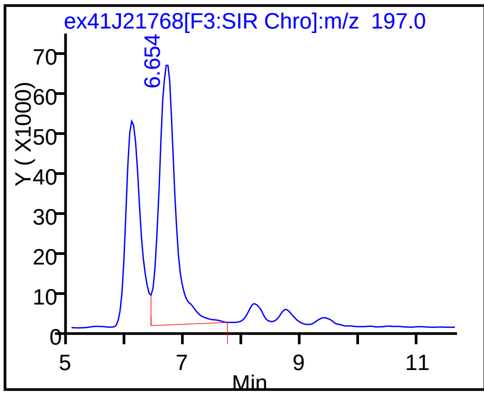
14 4-Amino-2,6-dinitrotoluene



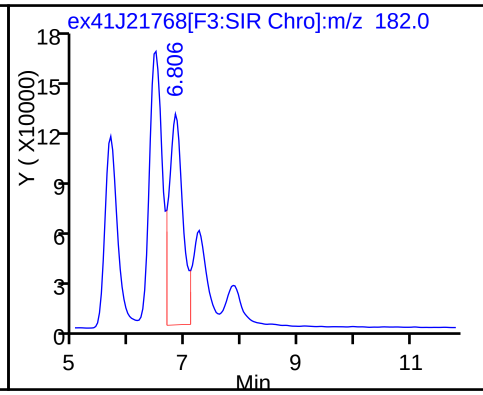
15 2,3-Dinitrotoluene



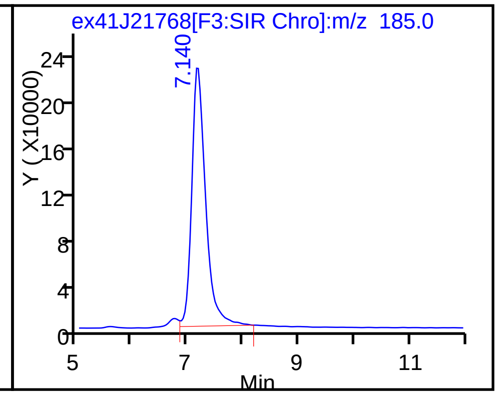
16 2-Amino-4,6-dinitrotoluene



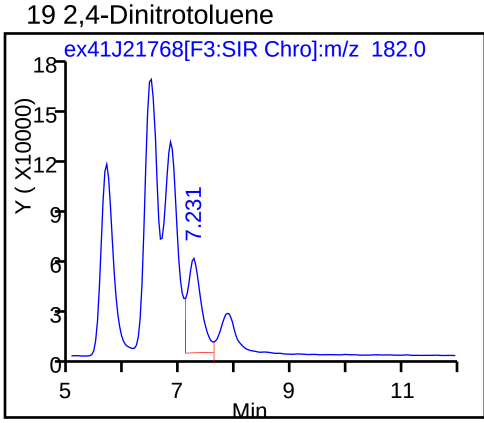
17 2,6-Dinitrotoluene



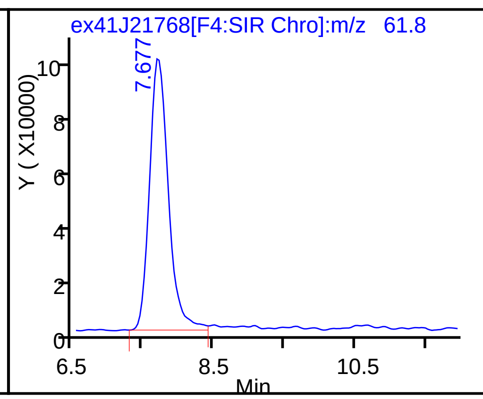
* 18 2,4-dinitrotoluene-d3



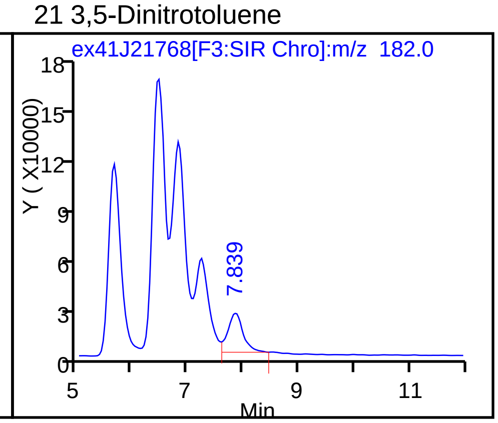
19 2,4-Dinitrotoluene



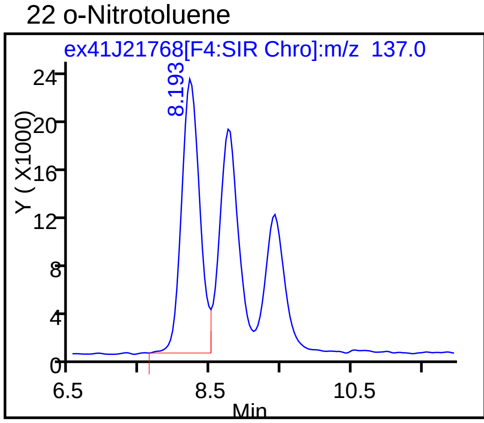
20 PETN



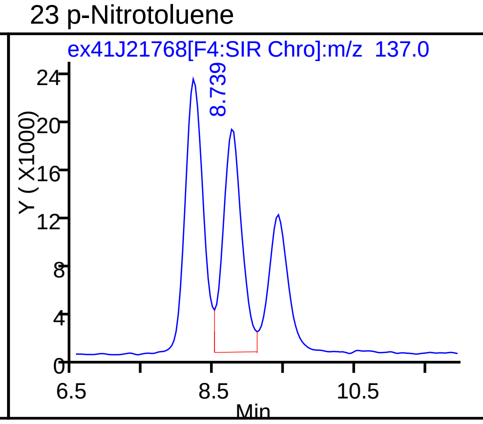
21 3,5-Dinitrotoluene



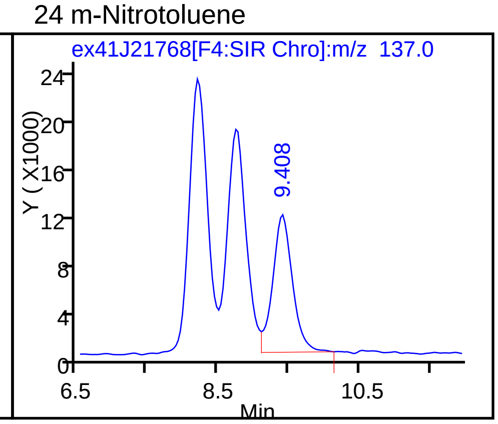
22 o-Nitrotoluene



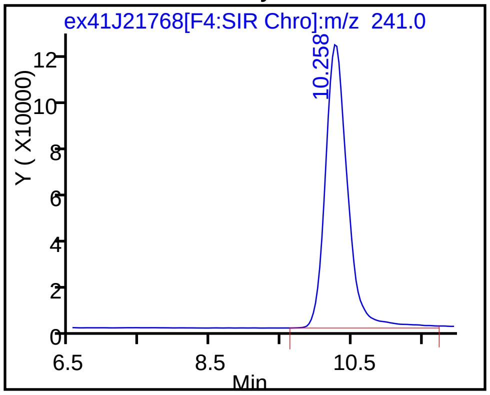
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94610/28 Calibration Date: 11/03/2011 17:58

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21777.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.178		97.2	100	-2.8	20.0
RDX	Lin1		0.9508		98.5	98.7	-0.2	20.0
1,3,5-Trinitrobenzene	Lin1		1.143		96.3	100	-3.8	20.0
Tetryl	Lin1		1.424		102	99.4	2.9	20.0
1,3-Dinitrobenzene	Lin1		1.096		98.9	101	-2.5	20.0
Nitroglycerin	Lin1		6.741		100	100	0.4	30.0
2,4,6-Trinitrotoluene	Lin1		4.762		96.2	100	-3.9	20.0
Nitrobenzene	Lin1		0.9458		93.0	99.9	-6.9	20.0
3,4-Dinitrotoluene	Lin1		2.218		96.2	100	-3.8	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.099		91.2	98.7	-7.6	20.0
2,3-Dinitrotoluene	Lin1		2.735		90.3	100	-9.7	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.432		97.7	100	-2.4	20.0
2,6-Dinitrotoluene	Lin1		2.476		93.2	100	-6.9	20.0
2,4-Dinitrotoluene	Lin1		1.222		96.1	100	-4.2	20.0
PETN	Lin1		2.024		103	99.8	3.2	30.0
3,5-Dinitrotoluene	Lin1		0.5968		91.9	100	-8.1	30.0
2-Nitrotoluene	Lin1		0.5119		95.3	99.1	-3.8	20.0
4-Nitrotoluene	Lin1		0.4165		87.4	99.5	-12.2	20.0
3-Nitrotoluene	Lin1		0.2611		88.0	98.8	-10.9	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.63		96.0	100	-4.0	30.0
Nitrobenzene-d5	Lin1		1.146		89.7	100	-10.3	20.0

FORM VII 8321B

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94611/28 Calibration Date: 11/03/2011 17:58

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21777.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.178		97.2	100	-2.8	20.0
RDX	Lin1		0.9508		98.5	98.7	-0.2	20.0
1,3,5-Trinitrobenzene	Lin1		1.143		96.3	100	-3.8	20.0
Tetryl	Lin1		1.424		102	99.4	2.9	20.0
1,3-Dinitrobenzene	Lin1		1.096		98.9	101	-2.5	20.0
Nitroglycerin	Lin1		6.741		100	100	0.4	30.0
2,4,6-Trinitrotoluene	Lin1		4.762		96.2	100	-3.9	20.0
Nitrobenzene	Lin1		0.9458		93.0	99.9	-6.9	20.0
3,4-Dinitrotoluene	Lin1		2.218		96.2	100	-3.8	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.099		91.2	98.7	-7.6	20.0
2,3-Dinitrotoluene	Lin1		2.735		90.3	100	-9.7	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.432		97.7	100	-2.4	20.0
2,6-Dinitrotoluene	Lin1		2.476		93.2	100	-6.9	20.0
2,4-Dinitrotoluene	Lin1		1.222		96.1	100	-4.2	20.0
PETN	Lin1		2.024		103	99.8	3.2	30.0
3,5-Dinitrotoluene	Lin1		0.5968		91.9	100	-8.1	30.0
2-Nitrotoluene	Lin1		0.5119		95.3	99.1	-3.8	20.0
4-Nitrotoluene	Lin1		0.4165		87.4	99.5	-12.2	20.0
3-Nitrotoluene	Lin1		0.2611		88.0	98.8	-10.9	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.63		96.0	100	-4.0	30.0
Nitrobenzene-d5	Lin1		1.146		89.7	100	-10.3	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21777.d
Lims ID: CCV Client ID:
Inject. Date: 03-Nov-2011 17:58:22 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 11/03/11EX5 CCV 100 ug/L 280-0002711-028
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 6
Lims Batch ID: 94610 Lims Sample ID: 28
Sublist: chrom-8321exp4-25*sub3
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m
Last Update: 04-Nov-2011 06:46:50 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	506068	97.2			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		580811	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	2.991	0.000		2029393	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.013	761804	98.5			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	736231	96.3			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	910995	102.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1665426	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.016	715592	98.9			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	4339243	100.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	3068534	96.2			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	737803	89.7			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	608218	93.0			
13 3,4-Dinitrotoluene										
3	182.0	5.651	5.651	0.000	0.791	4486666	96.2			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.848	2194182	91.2			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.425	0.000	0.900	5530376	90.3			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.624	0.000	0.928	2899423	97.7			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.776	0.000	0.949	5013262	93.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		5056150	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.201	0.000	1.009	2479192	96.1			
20 PETN										
4	61.8	7.646	7.646	0.000	1.000	4085735	103.0			
21 3,5-Dinitrotoluene										
3	182.0	7.748	7.748	0.000	1.085	1207084	91.9			
22 o-Nitrotoluene										
4	137.0	8.163	8.163	0.000	1.000	1025935	95.3			
23 p-Nitrotoluene										
4	137.0	8.709	8.709	0.000	1.000	838116	87.4			
24 m-Nitrotoluene										
4	137.0	9.347	9.347	0.000	1.000	521631	88.0			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.227	10.227	0.000	1.000	6842616	96.0			

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21777.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	03-Nov-2011 17:58:22	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/03/11EX5 CCV 100 ug/L 280-0002711-028		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	94611	Lims Sample ID:	28
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:50	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

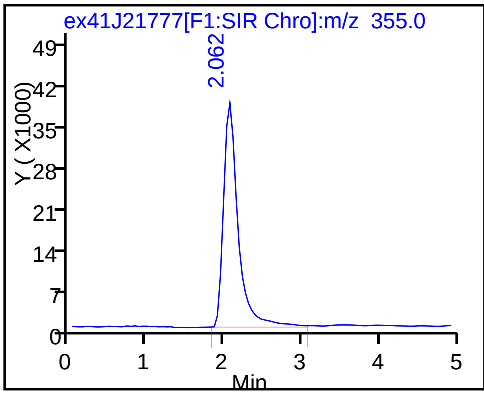
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	506068	97.2			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		580811	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	2.991	0.000		2029393	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.013	761804	98.5			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	736231	96.3			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	910995	102.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1665426	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.016	715592	98.9			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	4339243	100.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	3068534	96.2			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	737803	89.7			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	608218	93.0			
13 3,4-Dinitrotoluene										
3	182.0	5.651	5.651	0.000	0.791	4486666	96.2			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.848	2194182	91.2			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.425	0.000	0.900	5530376	90.3			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.624	0.000	0.928	2899423	97.7			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.776	0.000	0.949	5013262	93.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		5056150	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.201	0.000	1.009	2479192	96.1			
20 PETN										
4	61.8	7.646	7.646	0.000	1.000	4085735	103.0			
21 3,5-Dinitrotoluene										
3	182.0	7.748	7.748	0.000	1.085	1207084	91.9			
22 o-Nitrotoluene										
4	137.0	8.163	8.163	0.000	1.000	1025935	95.3			
23 p-Nitrotoluene										
4	137.0	8.709	8.709	0.000	1.000	838116	87.4			
24 m-Nitrotoluene										
4	137.0	9.347	9.347	0.000	1.000	521631	88.0			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.227	10.227	0.000	1.000	6842616	96.0			

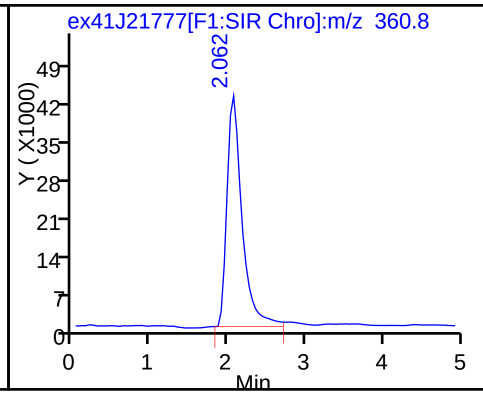
Report Date: 04-Nov-2011 06:46:51 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21777.d

Injection Date:	03-Nov-2011 17:58:22	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	28
Operator ID:		Injection Vol:	40.00 ul

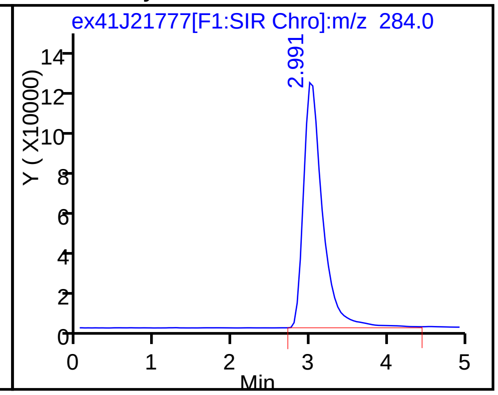
2 HMX



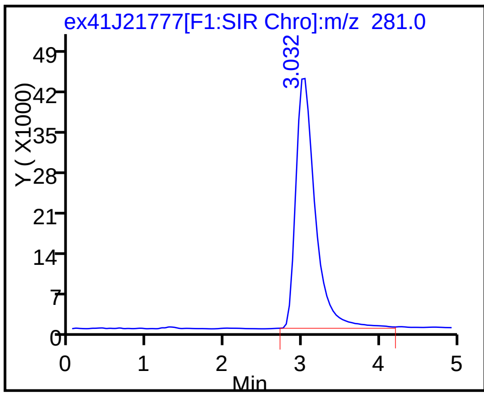
* 1 HMX-13C4



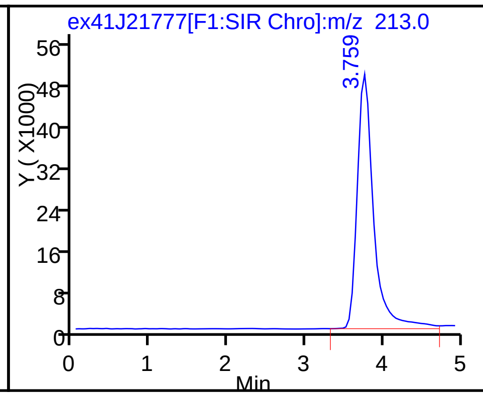
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



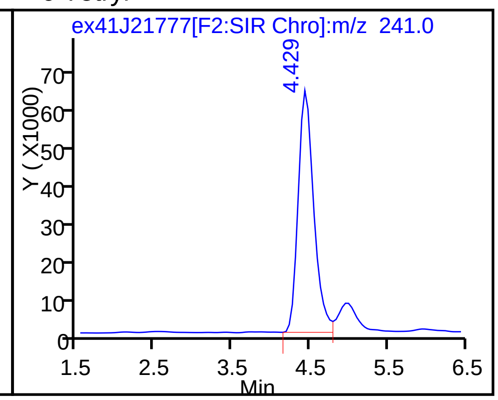
4 RDX



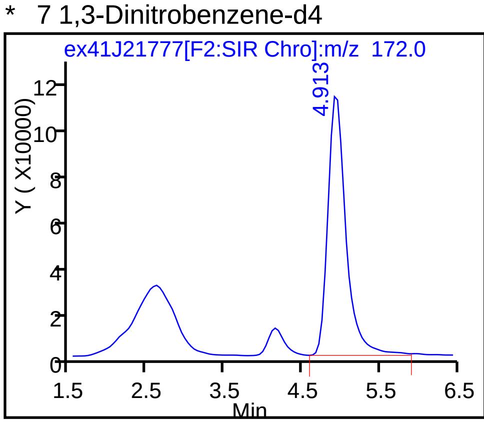
5 1,3,5-Trinitrobenzene



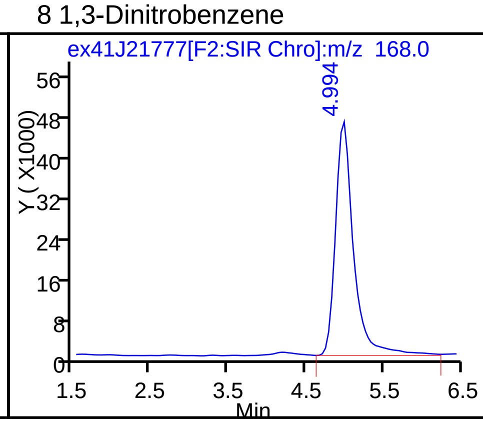
6 Tetryl



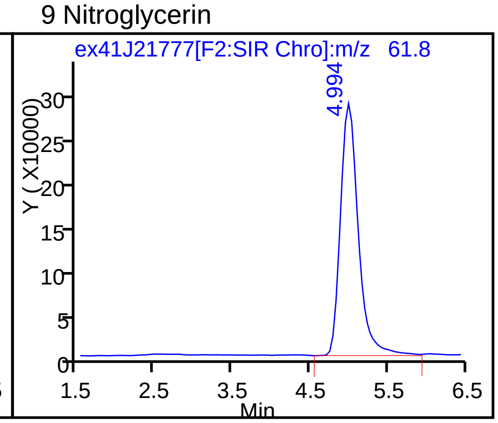
* 7 1,3-Dinitrobenzene-d4



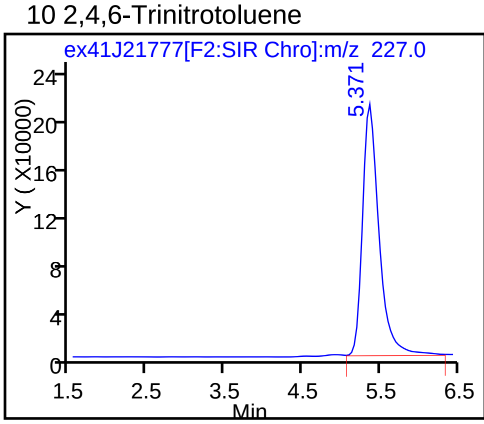
8 1,3-Dinitrobenzene



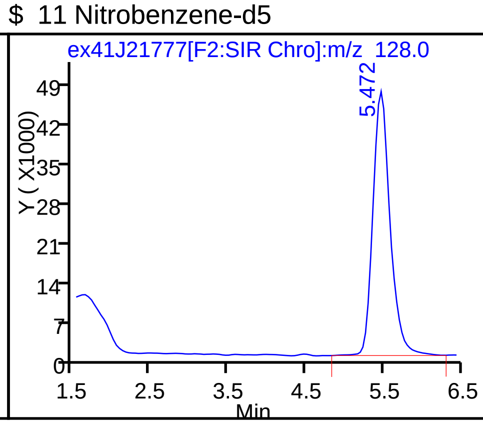
9 Nitroglycerin



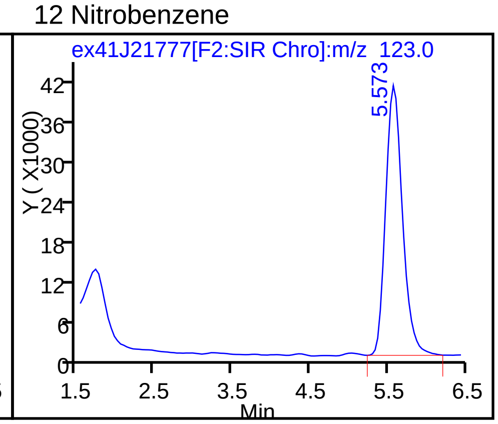
10 2,4,6-Trinitrotoluene



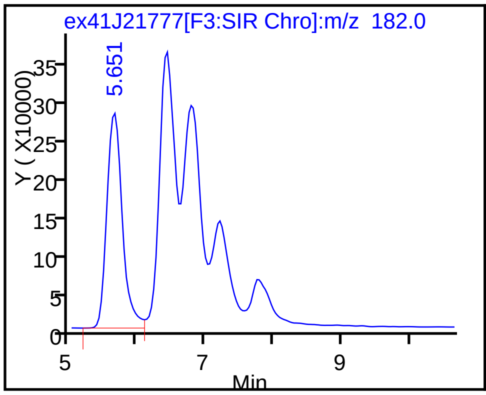
$ 11 Nitrobenzene-d5



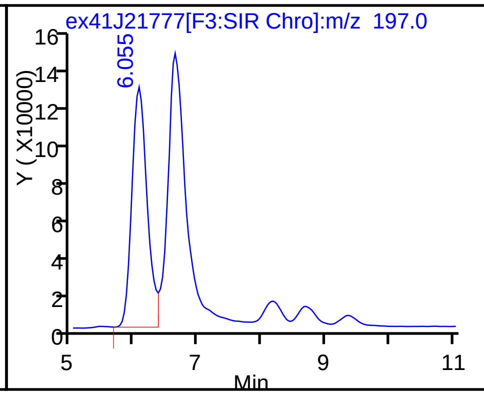
12 Nitrobenzene



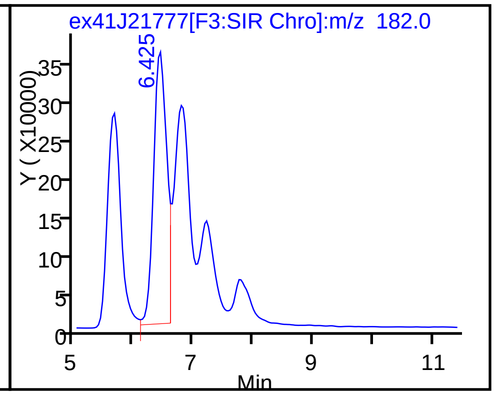
13 3,4-Dinitrotoluene



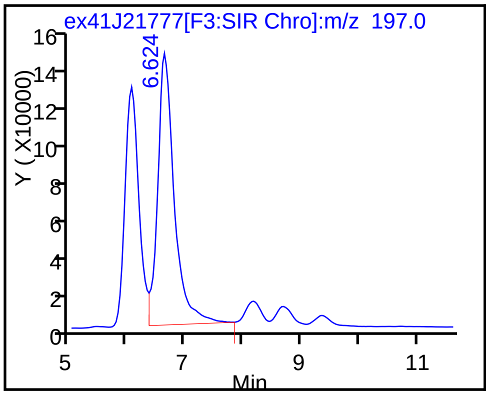
14 4-Amino-2,6-dinitrotoluene



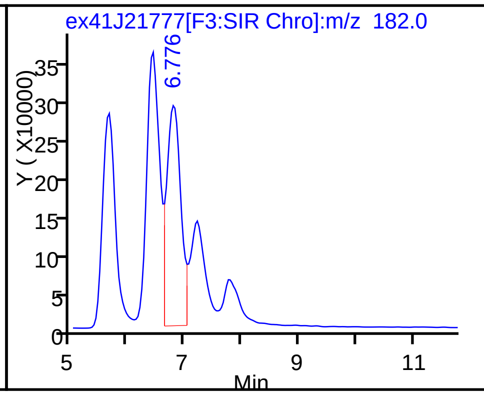
15 2,3-Dinitrotoluene



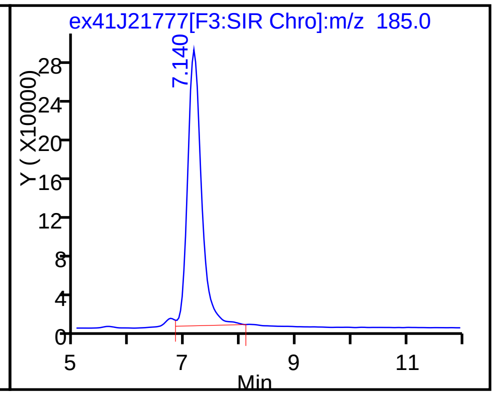
16 2-Amino-4,6-dinitrotoluene



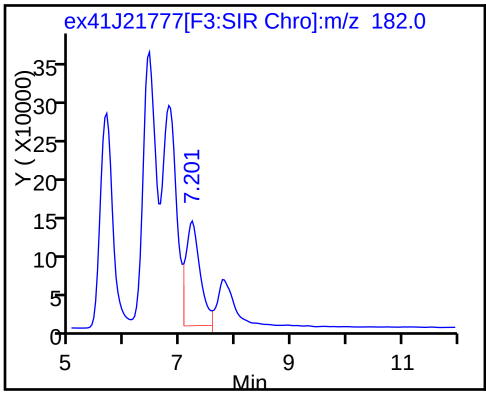
17 2,6-Dinitrotoluene



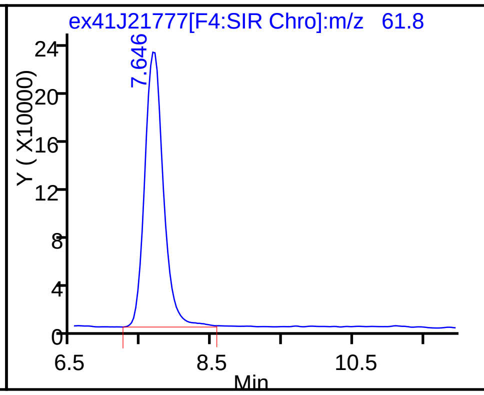
* 18 2,4-dinitrotoluene-d3



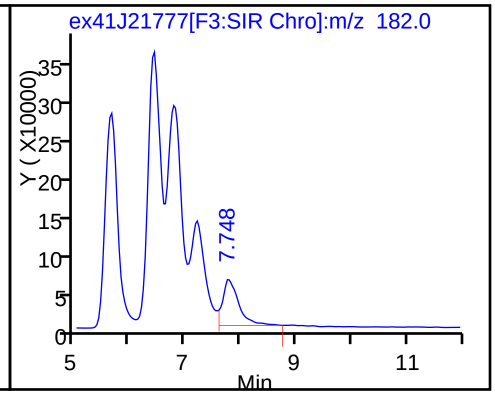
19 2,4-Dinitrotoluene



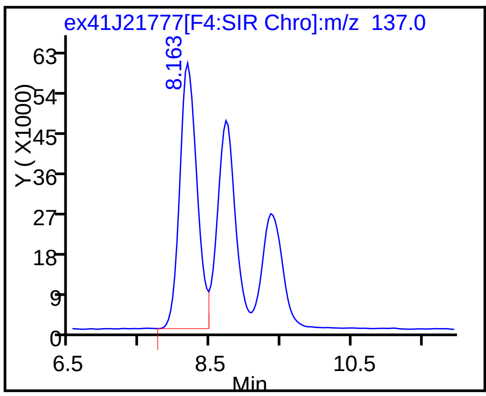
20 PETN



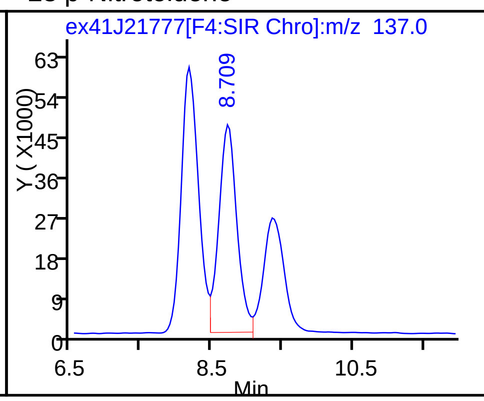
21 3,5-Dinitrotoluene



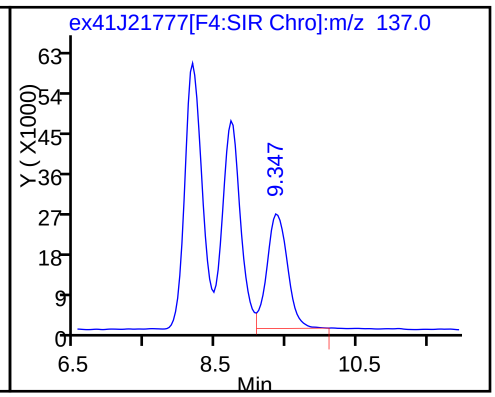
22 o-Nitrotoluene



23 p-Nitrotoluene

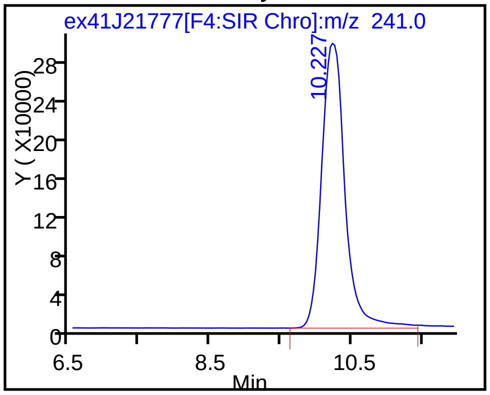


24 m-Nitrotoluene



Report Date: 04-Nov-2011 06:46:51 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21777.d

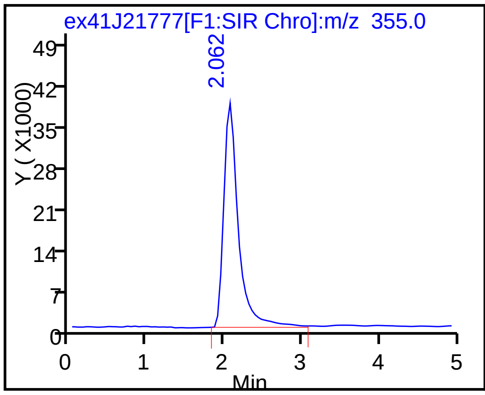
25 2,4,6-Trinitro-3-xylene



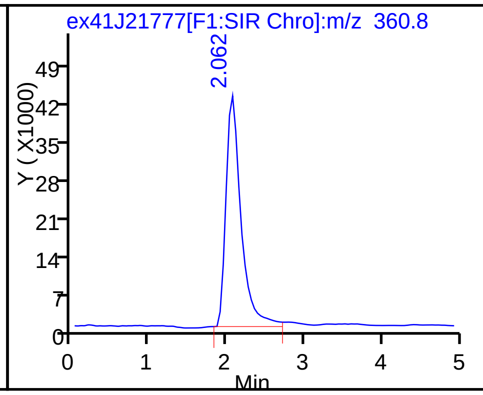
Report Date: 04-Nov-2011 06:46:51 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21777.d

Injection Date:	03-Nov-2011 17:58:22	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	28
Operator ID:		Injection Vol:	40.00 ul

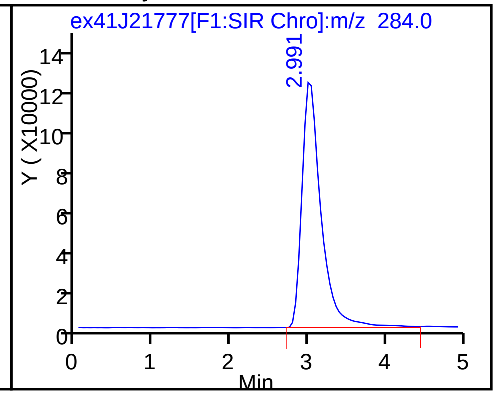
2 HMX



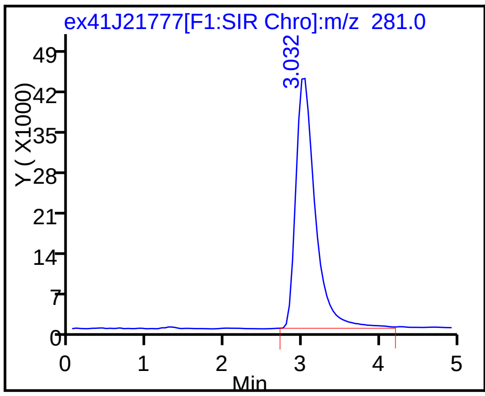
* 1 HMX-13C4



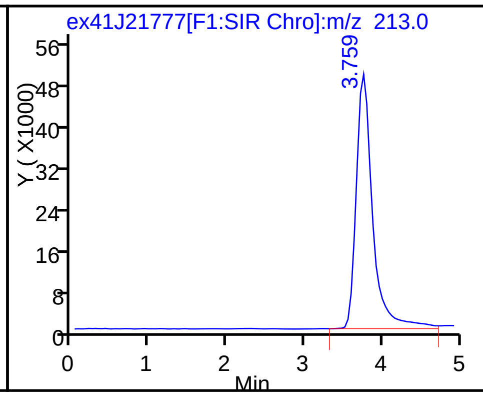
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



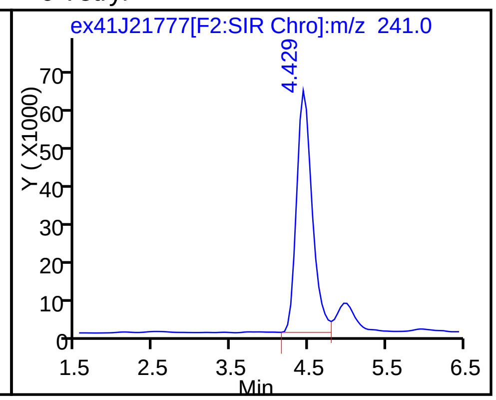
4 RDX



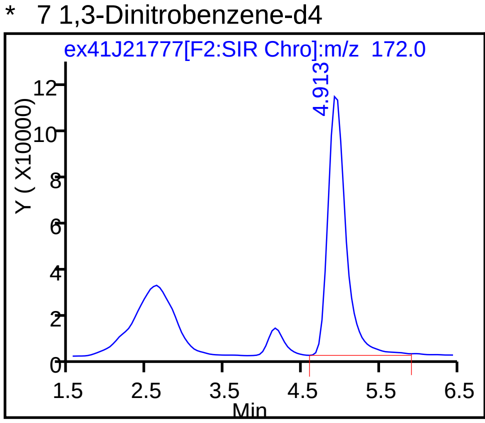
5 1,3,5-Trinitrobenzene



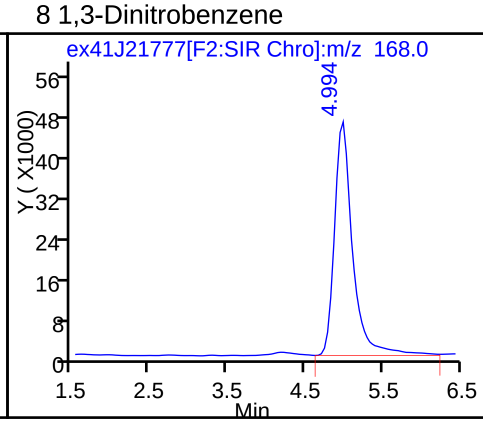
6 Tetryl



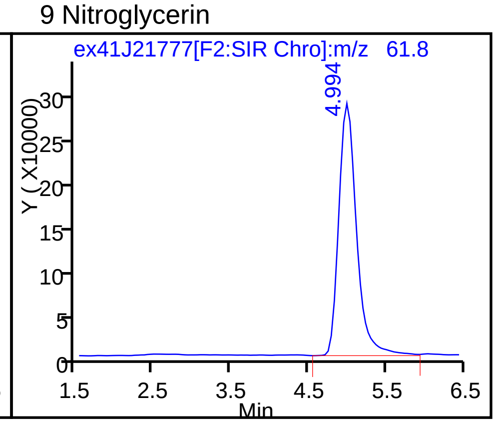
* 7 1,3-Dinitrobenzene-d4



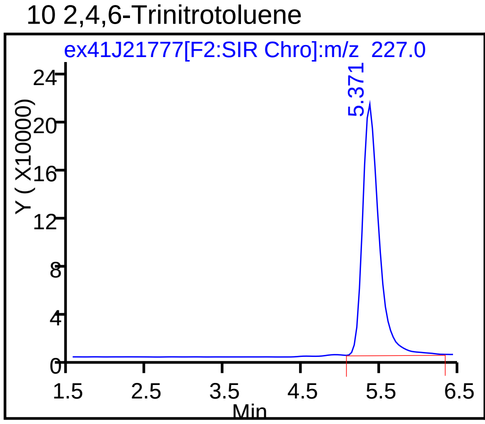
8 1,3-Dinitrobenzene



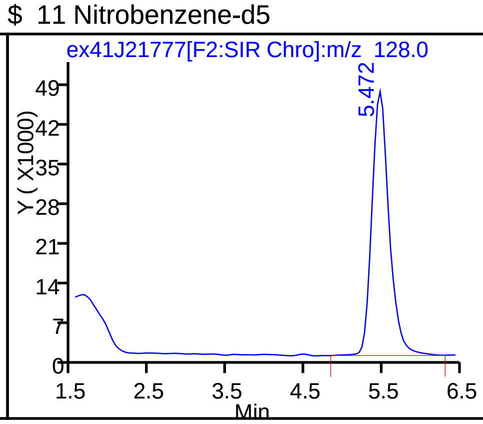
9 Nitroglycerin



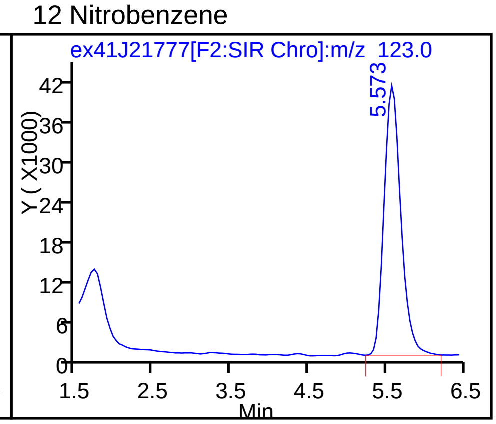
10 2,4,6-Trinitrotoluene



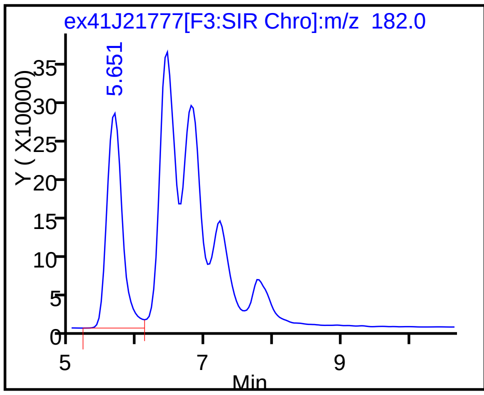
$ 11 Nitrobenzene-d5



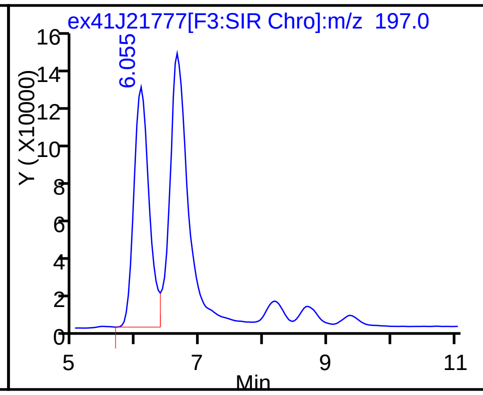
12 Nitrobenzene



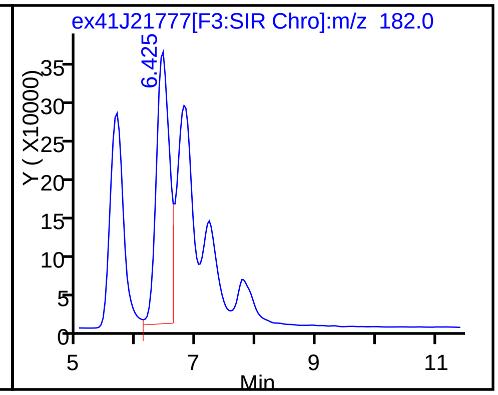
13 3,4-Dinitrotoluene



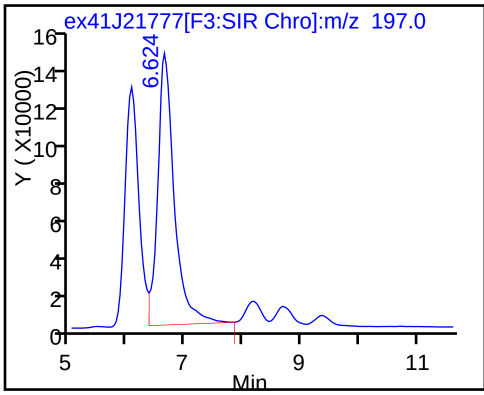
14 4-Amino-2,6-dinitrotoluene



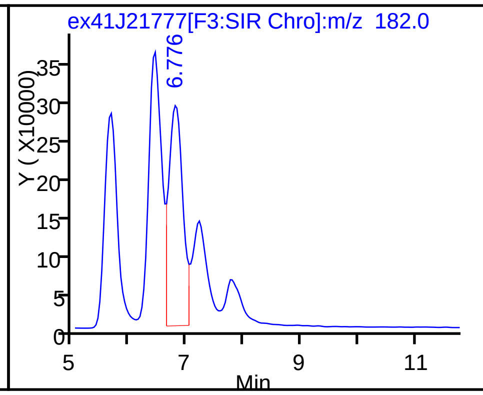
15 2,3-Dinitrotoluene



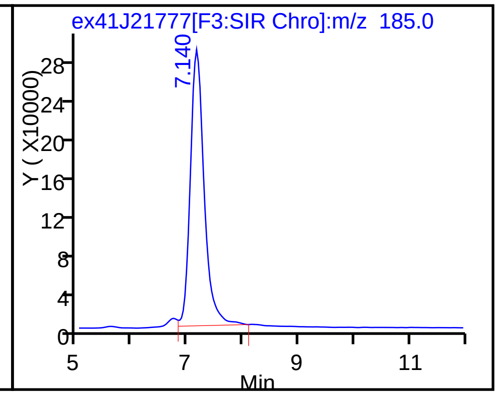
16 2-Amino-4,6-dinitrotoluene



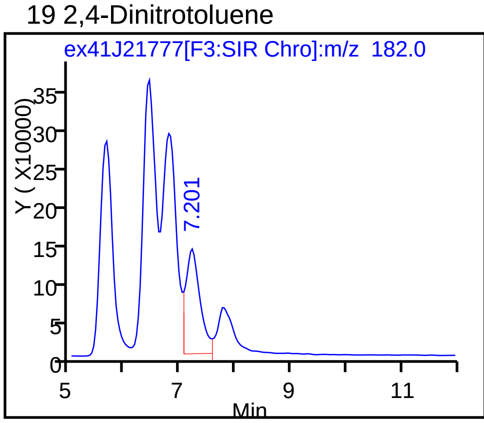
17 2,6-Dinitrotoluene



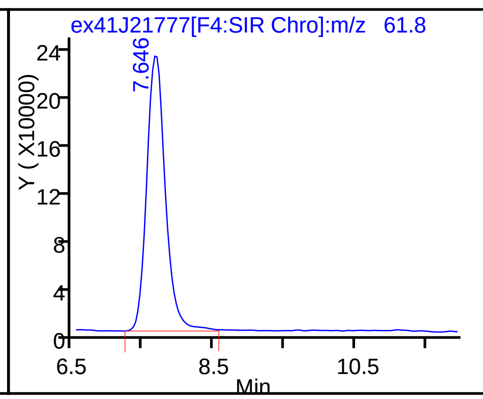
* 18 2,4-dinitrotoluene-d3



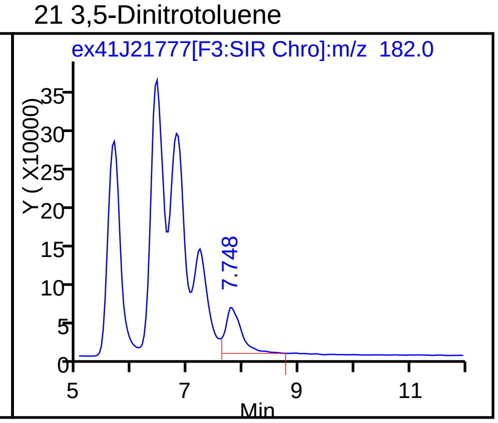
19 2,4-Dinitrotoluene



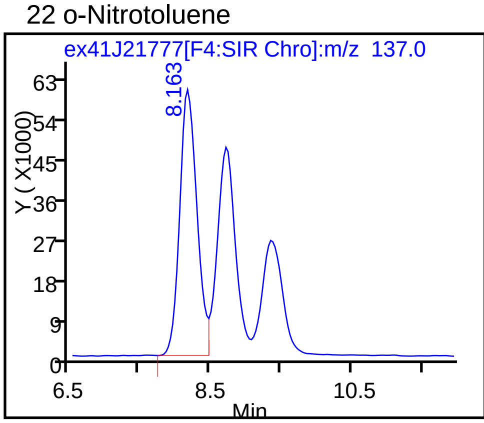
20 PETN



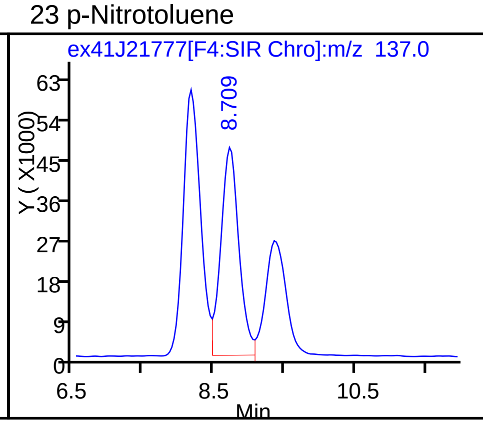
21 3,5-Dinitrotoluene



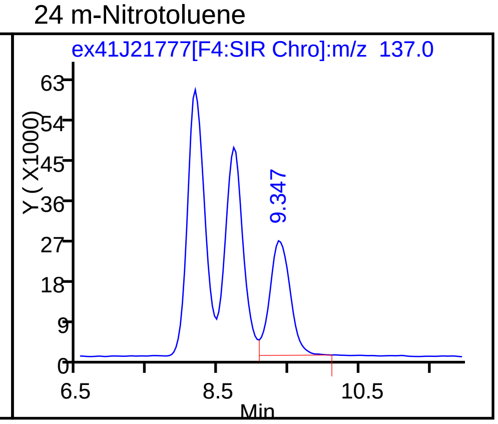
22 o-Nitrotoluene



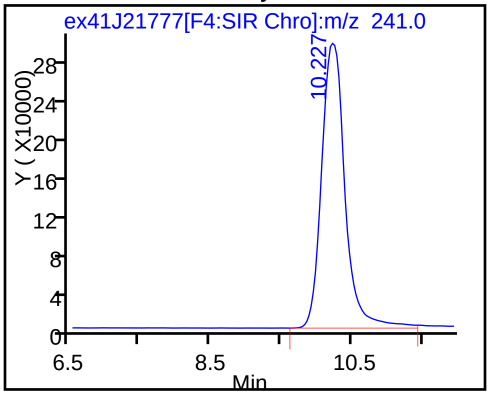
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94611/39 Calibration Date: 11/03/2011 20:28

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21788.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.124		47.8	50.0	-4.4	20.0
RDX	Lin1		0.9513		49.1	49.4	-0.5	20.0
1,3,5-Trinitrobenzene	Lin1		1.111		48.0	50.1	-4.1	20.0
Tetryl	Lin1		1.503		54.8	49.7	10.3	20.0
1,3-Dinitrobenzene	Lin1		1.150		52.0	50.7	2.6	20.0
Nitroglycerin	Lin1		6.579		49.6	50.0	-0.8	30.0
2,4,6-Trinitrotoluene	Lin1		4.867		49.5	50.1	-1.1	20.0
Nitrobenzene	Lin1		0.9315		45.9	50.0	-8.1	20.0
3,4-Dinitrotoluene	Lin1		2.474		53.6	50.0	7.2	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.176		48.9	49.4	-0.9	20.0
2,3-Dinitrotoluene	Lin1		3.341		55.0	50.0	10.0	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.560		53.1	50.1	6.1	20.0
2,6-Dinitrotoluene	Lin1		2.674		50.3	50.1	0.5	20.0
2,4-Dinitrotoluene	Lin1		1.226		48.3	50.2	-3.7	20.0
PETN	Lin1		2.410		60.5	49.9	21.2	30.0
3,5-Dinitrotoluene	Lin1		0.6723		52.3	50.0	4.6	30.0
2-Nitrotoluene	Lin1		0.5122		47.6	49.6	-3.9	20.0
4-Nitrotoluene	Lin1		0.4084		43.0	49.8	-13.6	20.0
3-Nitrotoluene	Lin1		0.2612		44.0	49.4	-10.9	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.13		45.8	50.0	-8.4	30.0
Nitrobenzene-d5	Lin1		1.170		45.5	50.0	-9.0	20.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21788.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	03-Nov-2011 20:28:12	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/03/11EX4 CCV 50 ug/L 280-0002711-039		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94611	Lims Sample ID:	39
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:59	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

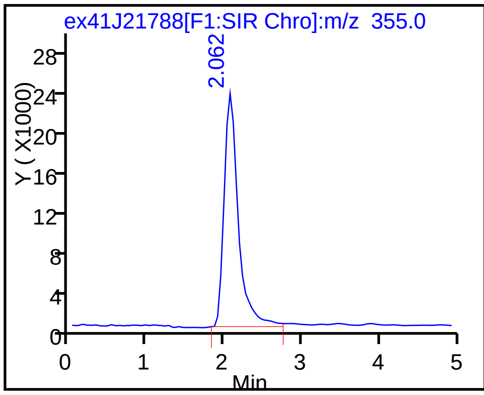
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	299494	47.8			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		704981	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2400291	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	450744	49.1			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	354129	48.0			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.894	475621	54.8			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1647855	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	371287	52.0			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.008	2095287	49.6			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.084	1551600	49.5			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	372748	45.5			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.125	296352	45.9			
13 3,4-Dinitrotoluene										
3	182.0	5.617	5.617	0.000	0.787	2384738	53.6			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.848	1118431	48.9			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.425	0.000	0.900	3218976	55.0			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.932	1504591	53.1			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.776	0.000	0.949	2579908	50.3			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4818545	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.231	0.000	1.013	1184929	48.3			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	2318055	60.5			
21 3,5-Dinitrotoluene										
3	182.0	7.808	7.808	0.000	1.094	647866	52.3			
22 o-Nitrotoluene										
4	137.0	8.163	8.163	0.000	1.000	489202	47.6			
23 p-Nitrotoluene										
4	137.0	8.709	8.709	0.000	1.000	391624	43.0			
24 m-Nitrotoluene										
4	137.0	9.377	9.377	0.000	1.000	248739	44.0			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.197	10.197	0.000	1.000	3225359	45.8			

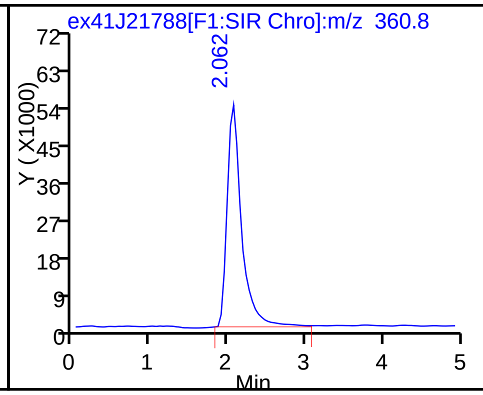
Report Date: 04-Nov-2011 06:46:59 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21788.d

Injection Date:	03-Nov-2011 20:28:12	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	39
Operator ID:		Injection Vol:	40.00 ul

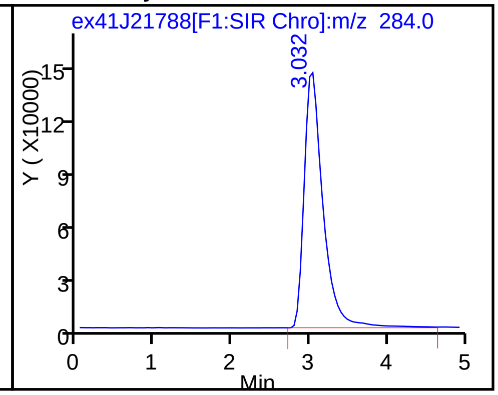
2 HMX



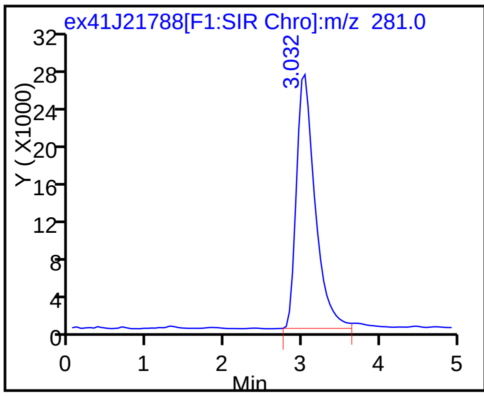
* 1 HMX-13C4



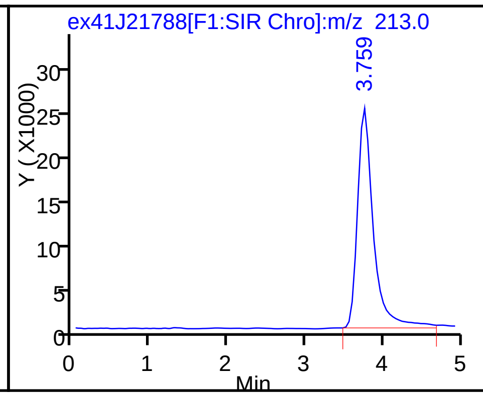
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



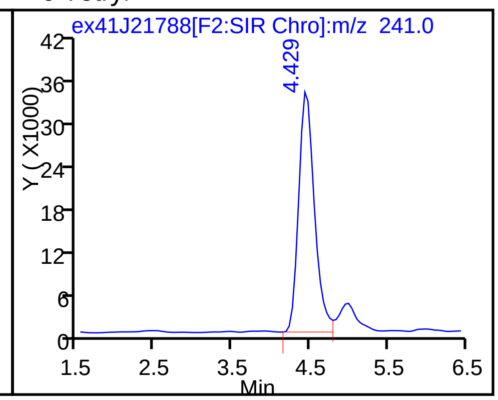
4 RDX



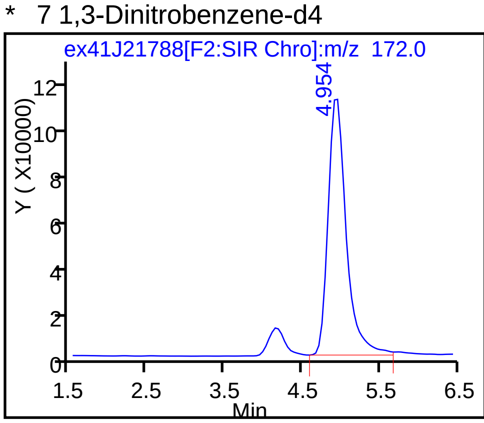
5 1,3,5-Trinitrobenzene



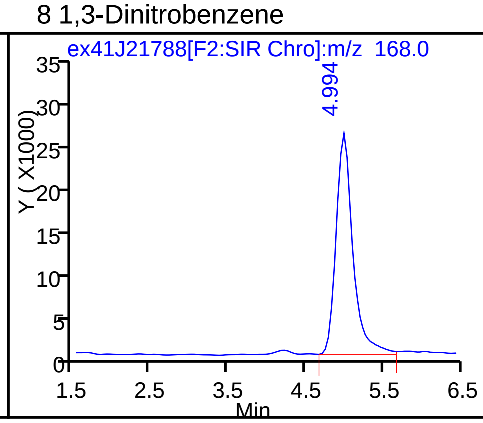
6 Tetryl



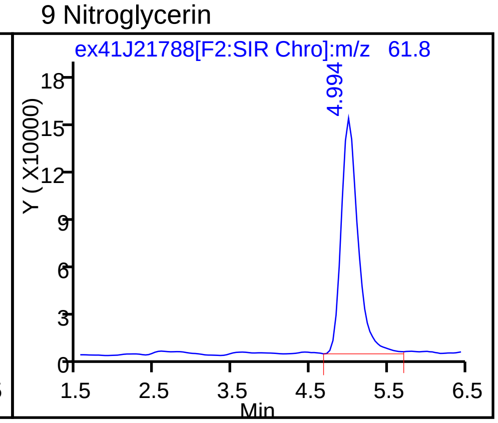
* 7 1,3-Dinitrobenzene-d4



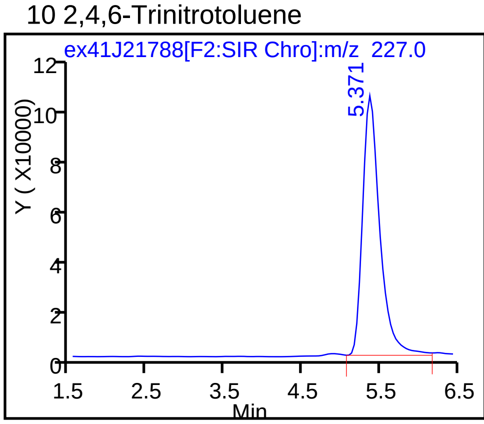
8 1,3-Dinitrobenzene



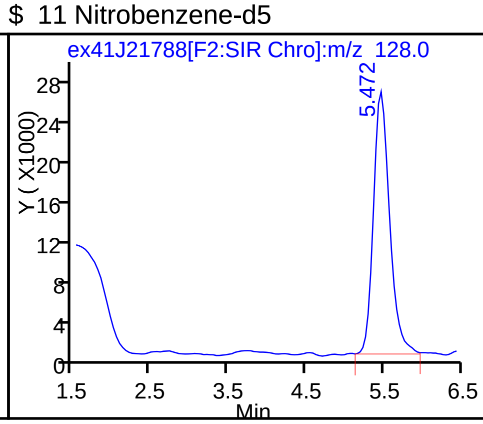
9 Nitroglycerin



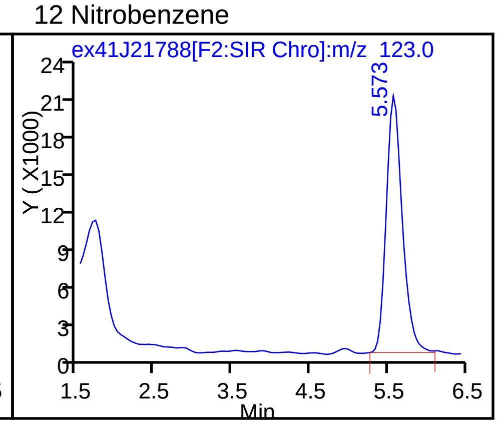
10 2,4,6-Trinitrotoluene



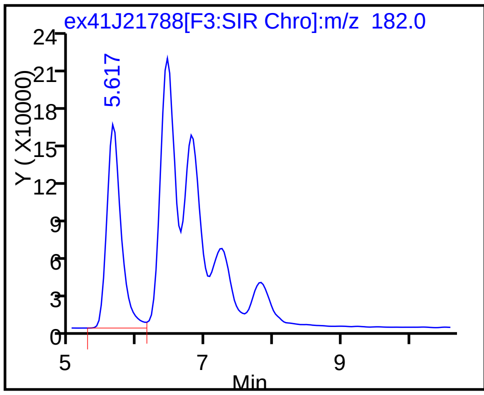
$ 11 Nitrobenzene-d5



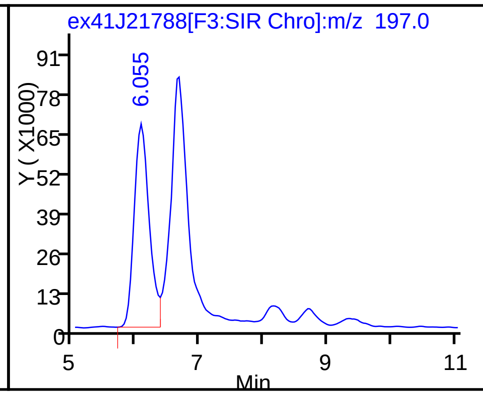
12 Nitrobenzene



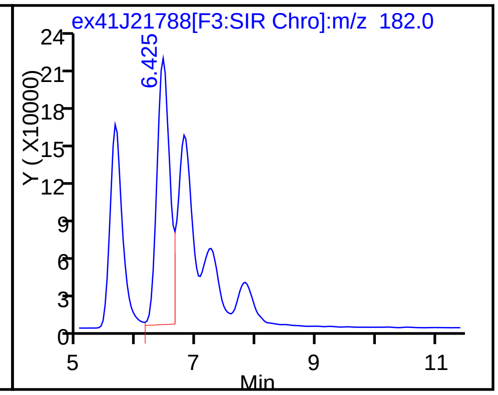
13 3,4-Dinitrotoluene



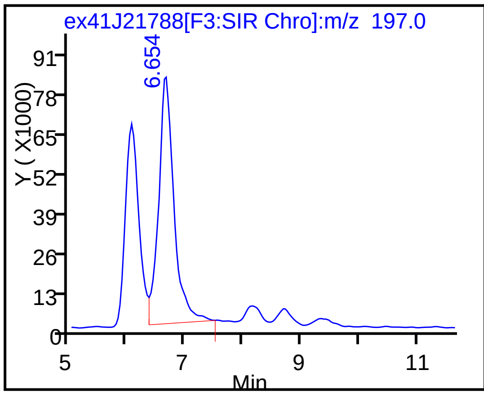
14 4-Amino-2,6-dinitrotoluene



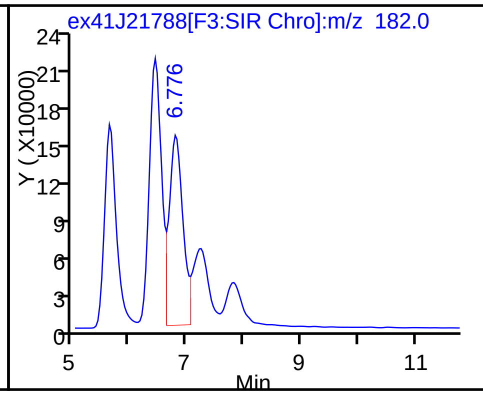
15 2,3-Dinitrotoluene



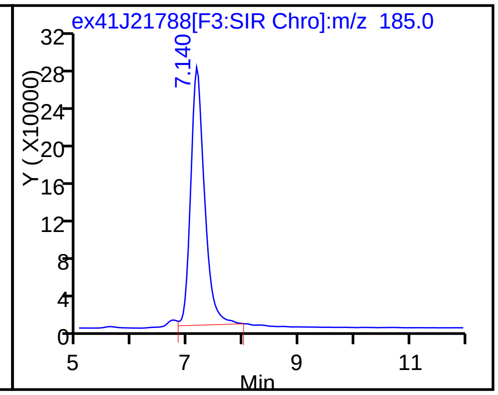
16 2-Amino-4,6-dinitrotoluene



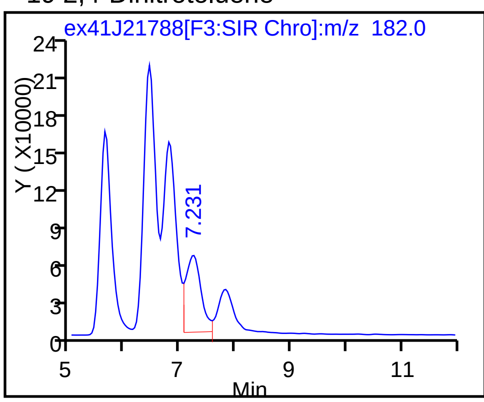
17 2,6-Dinitrotoluene



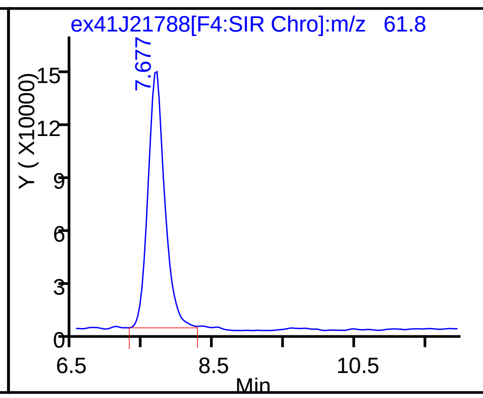
* 18 2,4-dinitrotoluene-d3



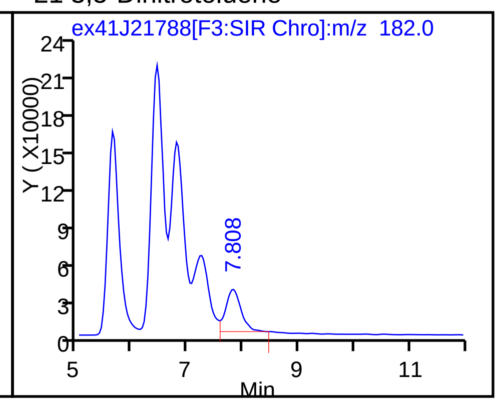
19 2,4-Dinitrotoluene



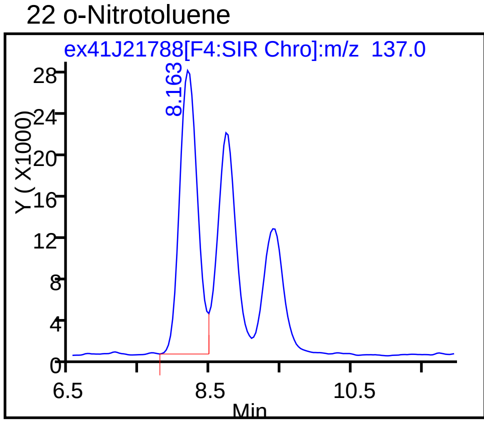
20 PETN



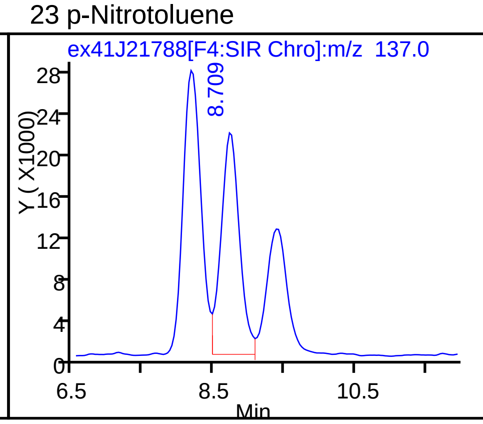
21 3,5-Dinitrotoluene



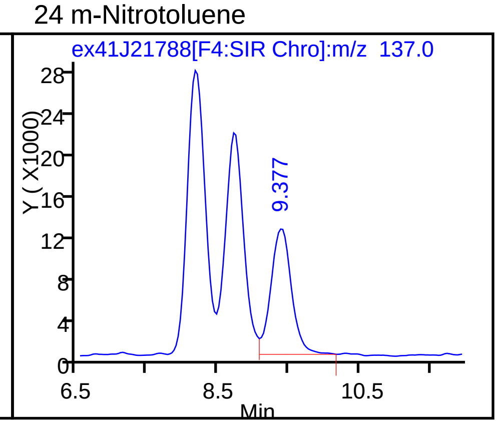
22 o-Nitrotoluene



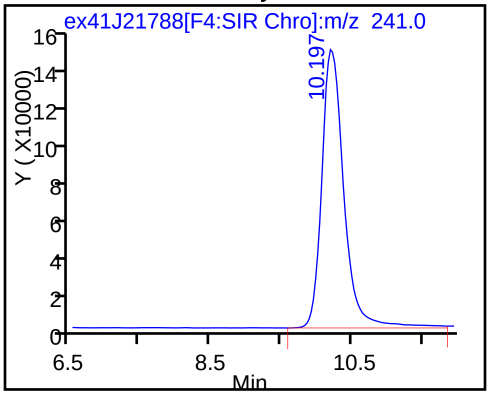
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94611/48 Calibration Date: 11/03/2011 22:31

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21797.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.056		91.7	100	-8.3	20.0
RDX	Lin1		0.9436		97.8	98.7	-0.9	20.0
1,3,5-Trinitrobenzene	Lin1		1.135		95.6	100	-4.5	20.0
Tetryl	Lin1		1.354		97.3	99.4	-2.1	20.0
1,3-Dinitrobenzene	Lin1		1.077		97.1	101	-4.2	20.0
Nitroglycerin	Lin1		6.332		94.3	100	-5.7	30.0
2,4,6-Trinitrotoluene	Lin1		4.809		97.2	100	-2.9	20.0
Nitrobenzene	Lin1		0.9546		93.9	99.9	-6.0	20.0
3,4-Dinitrotoluene	Lin1		2.142		92.9	100	-7.1	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.095		90.9	98.7	-7.9	20.0
2,3-Dinitrotoluene	Lin1		2.738		90.4	100	-9.6	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.423		97.1	100	-3.0	20.0
2,6-Dinitrotoluene	Lin1		2.400		90.3	100	-9.8	20.0
2,4-Dinitrotoluene	Lin1		1.199		94.2	100	-6.1	20.0
PETN	Lin1		2.168		110	99.8	10.6	30.0
3,5-Dinitrotoluene	Lin1		0.6461		99.3	100	-0.7	30.0
2-Nitrotoluene	Lin1		0.5354		99.7	99.1	0.6	20.0
4-Nitrotoluene	Lin1		0.4429		93.0	99.5	-6.5	20.0
3-Nitrotoluene	Lin1		0.2947		99.4	98.8	0.6	20.0
2,4,6-Trinitro-3-xylene	Lin1		11.29		102	100	1.9	30.0
Nitrobenzene-d5	Lin1		1.209		94.7	100	-5.3	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21797.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	03-Nov-2011 22:31:15	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/03/11EX5 CCV 100 ug/L 280-0002711-048		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	94611	Lims Sample ID:	48
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:47:05	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	498815	91.7			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		606678	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2132334	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	794330	97.8			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	667270	95.6			
	6 Tetryl									
2	241.0	4.469	4.469	0.000	0.902	790220	97.3			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		1519355	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	4.994	4.994	0.000	1.008	641428	97.1			
	9 Nitroglycerin									
2	61.8	4.994	4.994	0.000	1.008	3718293	94.3			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.405	5.405	0.000	1.091	2826981	97.2			
$	11 Nitrobenzene-d5									
2	128.0	5.472	5.472	0.000	1.105	709991	94.7			
	12 Nitrobenzene									
2	123.0	5.607	5.607	0.000	1.132	560056	93.9			
	13 3,4-Dinitrotoluene									
3	182.0	5.651	5.651	0.000	0.788	4158471	92.9			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.088	6.088	0.000	0.849	2096093	90.9			

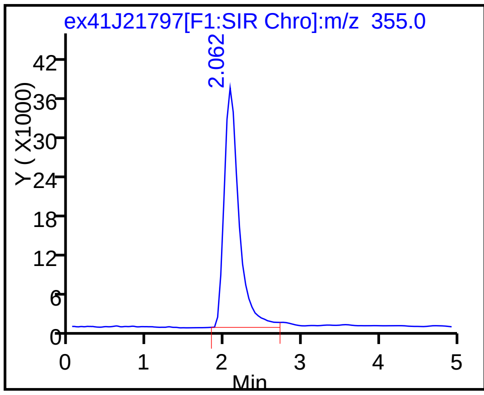
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.459	6.459	0.000	0.901	5311214	90.4			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.928	2764560	97.1			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.949	4660684	90.3			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.170	0.000		4850827	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.231	0.000	1.008	2332489	94.2			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	4198474	110.4			
21 3,5-Dinitrotoluene										
3	182.0	7.839	7.839	0.000	1.093	1253546	99.3			
22 o-Nitrotoluene										
4	137.0	8.193	8.193	0.000	1.000	1029491	99.7			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	855051	93.0			
24 m-Nitrotoluene										
4	137.0	9.408	9.408	0.000	1.000	564864	99.4			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.258	10.258	0.000	1.000	6631180	101.9			

Report Date: 04-Nov-2011 06:47:05 | Chrom Revision: 1.2 13-Jul-2011 10:43:06

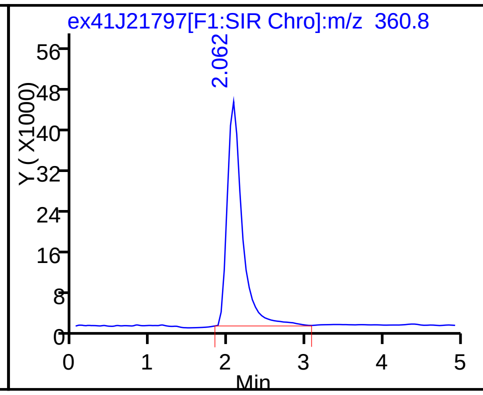
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21797.d

Injection Date:	03-Nov-2011 22:31:15	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	48
Operator ID:		Injection Vol:	40.00 ul

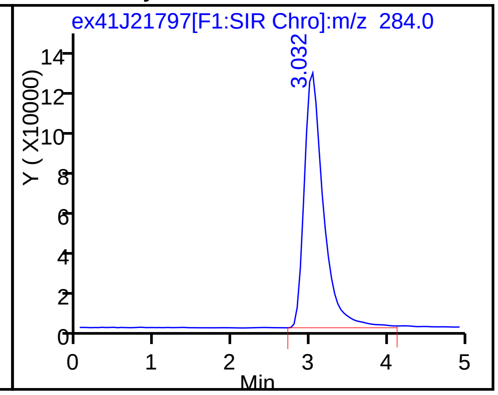
2 HMX



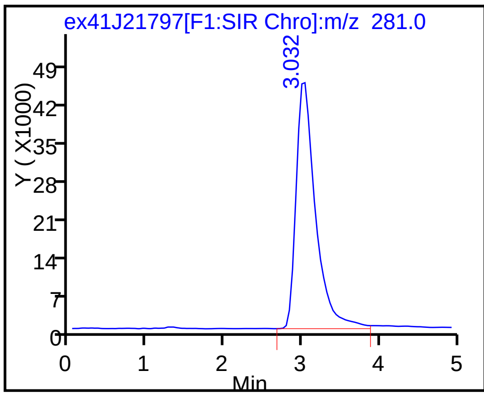
* 1 HMX-13C4



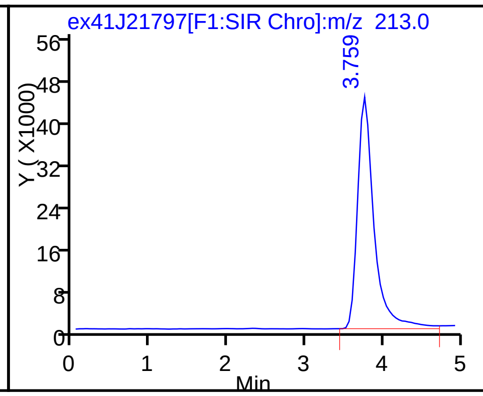
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



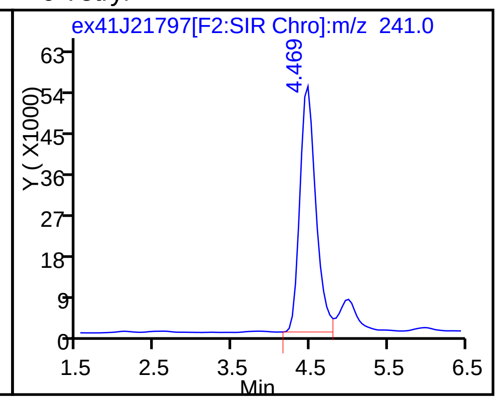
4 RDX



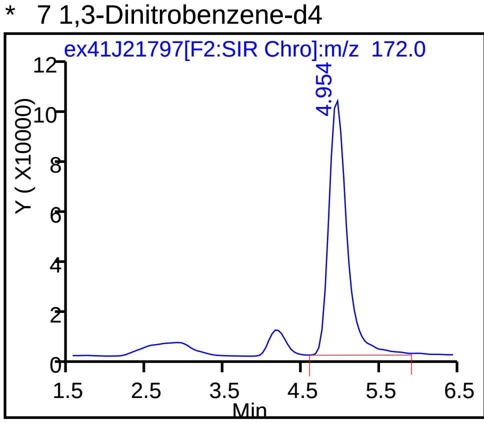
5 1,3,5-Trinitrobenzene



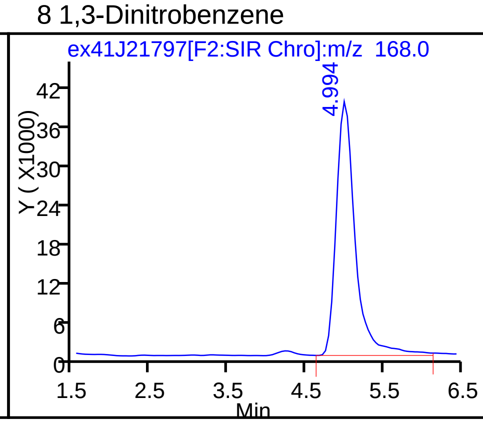
6 Tetryl



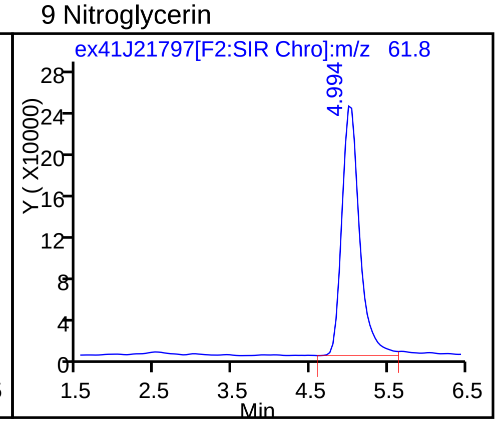
* 7 1,3-Dinitrobenzene-d4



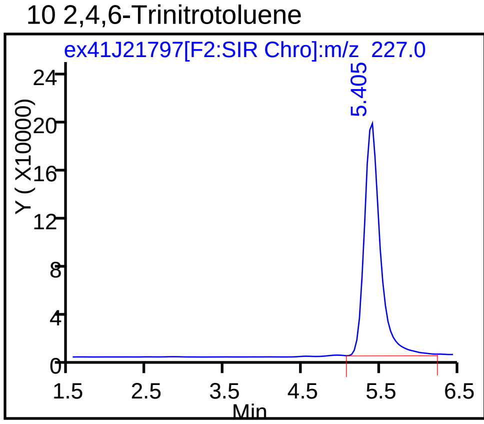
8 1,3-Dinitrobenzene



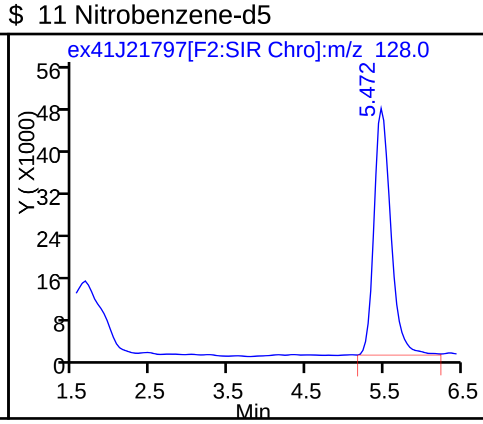
9 Nitroglycerin



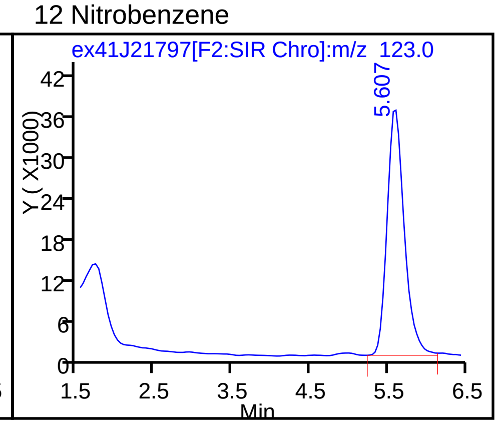
10 2,4,6-Trinitrotoluene



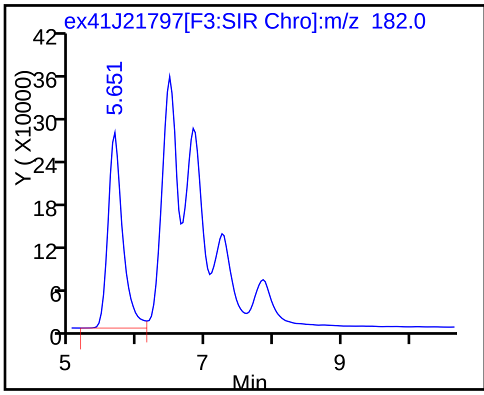
$ 11 Nitrobenzene-d5



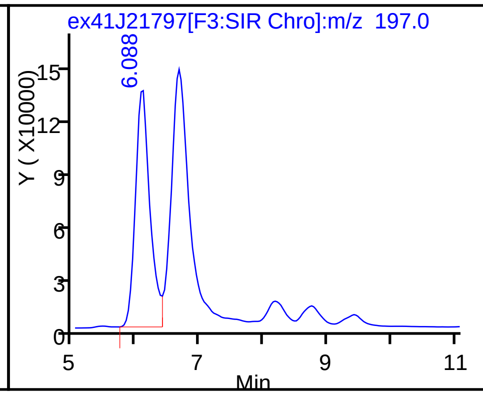
12 Nitrobenzene



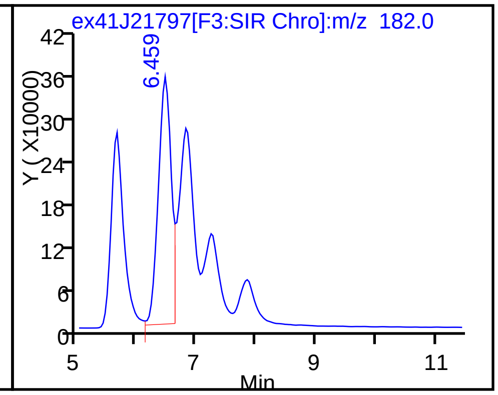
13 3,4-Dinitrotoluene



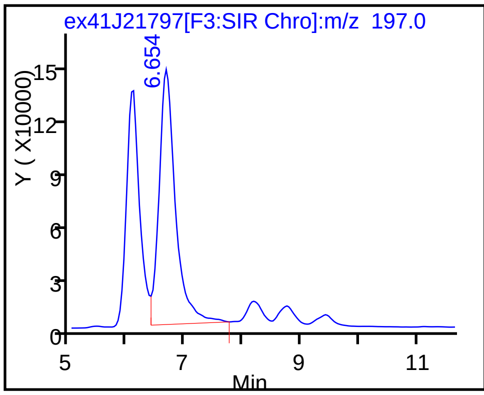
14 4-Amino-2,6-dinitrotoluene



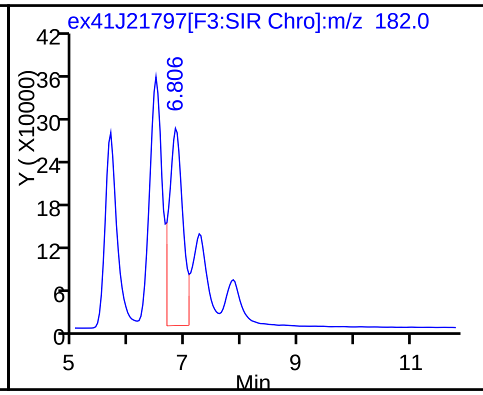
15 2,3-Dinitrotoluene



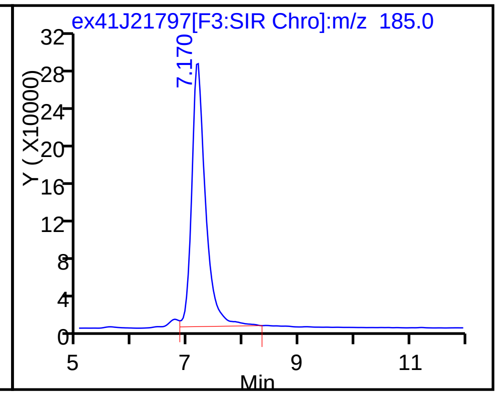
16 2-Amino-4,6-dinitrotoluene



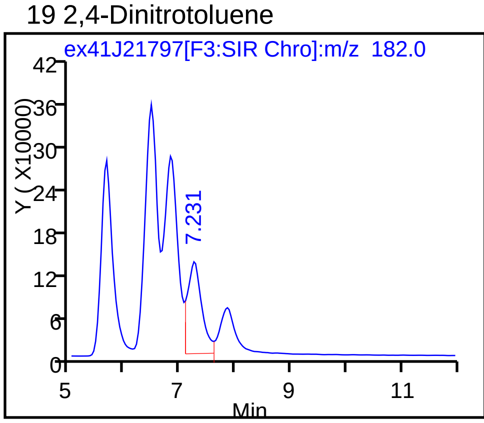
17 2,6-Dinitrotoluene



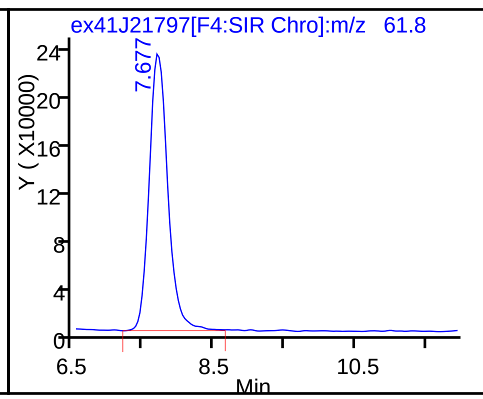
* 18 2,4-dinitrotoluene-d3



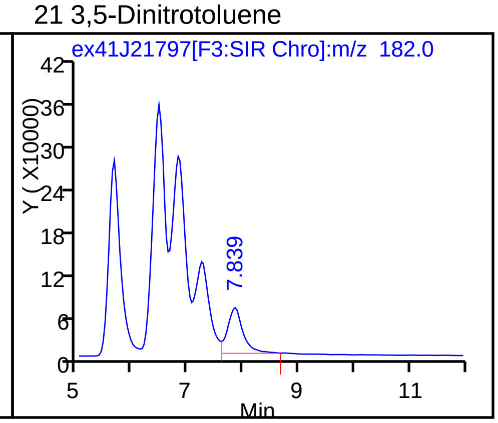
19 2,4-Dinitrotoluene



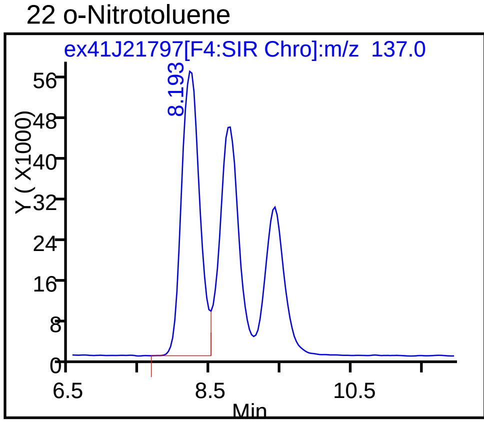
20 PETN



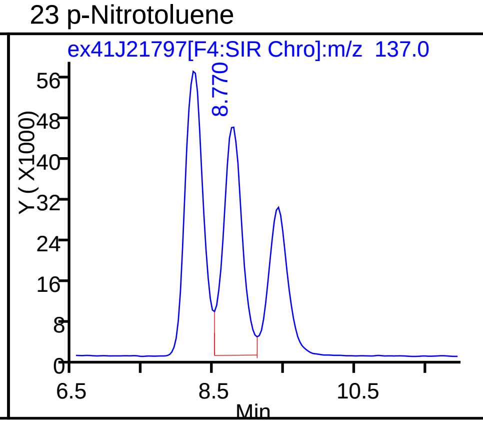
21 3,5-Dinitrotoluene



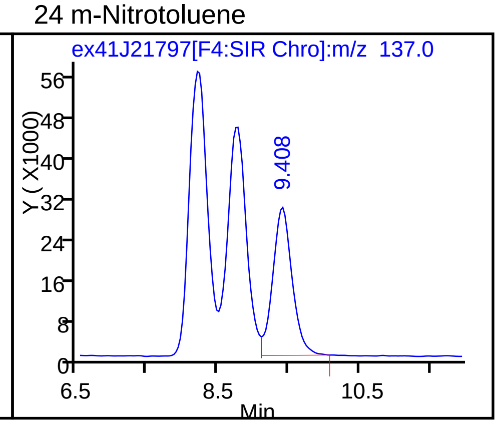
22 o-Nitrotoluene



23 p-Nitrotoluene

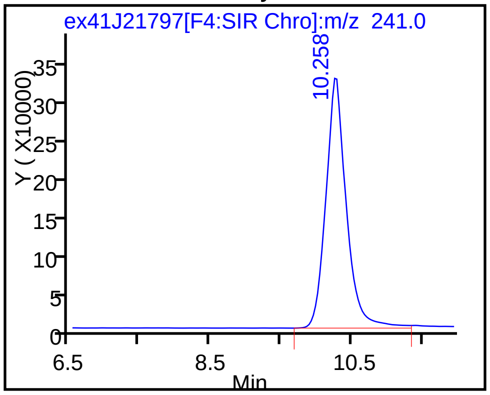


24 m-Nitrotoluene



Report Date: 04-Nov-2011 06:47:05 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21797.d

25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94611/57   Calibration Date: 11/04/2011 00:33

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21806.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.111		47.5	50.0	-5.0	20.0
RDX	Lin1		0.9712		50.2	49.4	1.7	20.0
1,3,5-Trinitrobenzene	Lin1		1.135		49.0	50.1	-2.1	20.0
Tetryl	Lin1		1.458		53.3	49.7	7.2	20.0
1,3-Dinitrobenzene	Lin1		1.142		51.7	50.7	2.0	20.0
Nitroglycerin	Lin1		6.762		50.9	50.0	1.8	30.0
2,4,6-Trinitrotoluene	Lin1		5.022		51.0	50.1	1.9	20.0
Nitrobenzene	Lin1		0.9828		48.4	50.0	-3.1	20.0
3,4-Dinitrotoluene	Lin1		2.545		55.1	50.0	10.2	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.301		54.0	49.4	9.4	20.0
2,3-Dinitrotoluene	Lin1		3.174		52.3	50.0	4.6	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.649		56.1	50.1	12.1	20.0
2,6-Dinitrotoluene	Lin1		2.767		52.1	50.1	4.1	20.0
2,4-Dinitrotoluene	Lin1		1.312		51.6	50.2	2.9	20.0
PETN	Lin1		2.452		61.6	49.9	23.4	30.0
3,5-Dinitrotoluene	Lin1		0.6463		50.3	50.0	0.6	30.0
2-Nitrotoluene	Lin1		0.5667		52.7	49.6	6.4	20.0
4-Nitrotoluene	Lin1		0.4833		50.9	49.8	2.3	20.0
3-Nitrotoluene	Lin1		0.3005		50.6	49.4	2.4	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.50		47.4	50.0	-5.2	30.0
Nitrobenzene-d5	Lin1		1.307		50.9	50.0	1.8	20.0

FORM VII 8321B

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94612/57 Calibration Date: 11/04/2011 00:33

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21806.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.111		47.5	50.0	-5.0	20.0
RDX	Lin1		0.9712		50.2	49.4	1.7	20.0
1,3,5-Trinitrobenzene	Lin1		1.135		49.0	50.1	-2.1	20.0
Tetryl	Lin1		1.458		53.3	49.7	7.2	20.0
1,3-Dinitrobenzene	Lin1		1.142		51.7	50.7	2.0	20.0
Nitroglycerin	Lin1		6.762		50.9	50.0	1.8	30.0
2,4,6-Trinitrotoluene	Lin1		5.022		51.0	50.1	1.9	20.0
Nitrobenzene	Lin1		0.9828		48.4	50.0	-3.1	20.0
3,4-Dinitrotoluene	Lin1		2.545		55.1	50.0	10.2	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.301		54.0	49.4	9.4	20.0
2,3-Dinitrotoluene	Lin1		3.174		52.3	50.0	4.6	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.649		56.1	50.1	12.1	20.0
2,6-Dinitrotoluene	Lin1		2.767		52.1	50.1	4.1	20.0
2,4-Dinitrotoluene	Lin1		1.312		51.6	50.2	2.9	20.0
PETN	Lin1		2.452		61.6	49.9	23.4	30.0
3,5-Dinitrotoluene	Lin1		0.6463		50.3	50.0	0.6	30.0
2-Nitrotoluene	Lin1		0.5667		52.7	49.6	6.4	20.0
4-Nitrotoluene	Lin1		0.4833		50.9	49.8	2.3	20.0
3-Nitrotoluene	Lin1		0.3005		50.6	49.4	2.4	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.50		47.4	50.0	-5.2	30.0
Nitrobenzene-d5	Lin1		1.307		50.9	50.0	1.8	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21806.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	04-Nov-2011 00:33:21	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/03/11EX4 CCV 50 ug/L 280-0002711-057		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94611	Lims Sample ID:	57
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:47:13	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	318353	47.5			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		754147	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2453966	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	470461	50.2			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	347641	49.0			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	443526	53.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1583135	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.016	354439	51.7			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	2068736	50.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	1538181	51.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	399828	50.9			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	300404	48.4			
13 3,4-Dinitrotoluene										
3	182.0	5.617	5.617	0.000	0.787	2231639	55.1			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.848	1125256	54.0			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.425	0.000	0.900	2781530	52.3			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.624	0.000	0.928	1446752	56.1			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.776	0.000	0.949	2427760	52.1			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4382975	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.201	0.000	1.009	1153348	51.6			
20 PETN										
4	61.8	7.646	7.646	0.000	1.000	2144941	61.6			
21 3,5-Dinitrotoluene										
3	182.0	7.808	7.808	0.000	1.094	566498	50.3			
22 o-Nitrotoluene										
4	137.0	8.163	8.163	0.000	1.000	492272	52.7			
23 p-Nitrotoluene										
4	137.0	8.739	8.739	0.000	1.000	421529	50.9			
24 m-Nitrotoluene										
4	137.0	9.377	9.377	0.000	1.000	260237	50.6			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.227	10.227	0.000	1.000	3211688	47.4			

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21806.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	04-Nov-2011 00:33:21	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/03/11EX4 CCV 50 ug/L 280-0002711-057		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94612	Lims Sample ID:	57
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:47:13	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	318353	47.5			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		754147	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2453966	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	470461	50.2			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	347641	49.0			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	443526	53.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1583135	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.016	354439	51.7			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	2068736	50.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	1538181	51.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	399828	50.9			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	300404	48.4			
13 3,4-Dinitrotoluene										
3	182.0	5.617	5.617	0.000	0.787	2231639	55.1			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.848	1125256	54.0			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.425	0.000	0.900	2781530	52.3			
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3	197.0	6.624	6.624	0.000	0.928	1446752	56.1			
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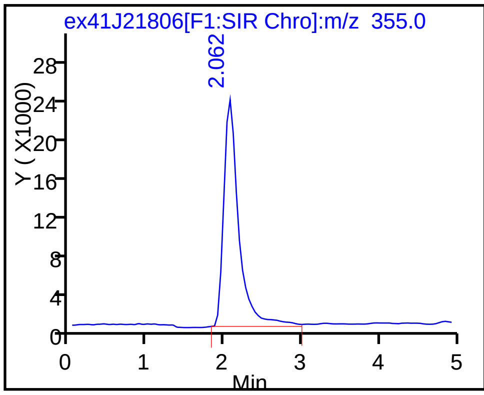
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4382975	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.201	0.000	1.009	1153348	51.6			
20 PETN										
4	61.8	7.646	7.646	0.000	1.000	2144941	61.6			
21 3,5-Dinitrotoluene										
3	182.0	7.808	7.808	0.000	1.094	566498	50.3			
22 o-Nitrotoluene										
4	137.0	8.163	8.163	0.000	1.000	492272	52.7			
23 p-Nitrotoluene										
4	137.0	8.739	8.739	0.000	1.000	421529	50.9			
24 m-Nitrotoluene										
4	137.0	9.377	9.377	0.000	1.000	260237	50.6			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.227	10.227	0.000	1.000	3211688	47.4			

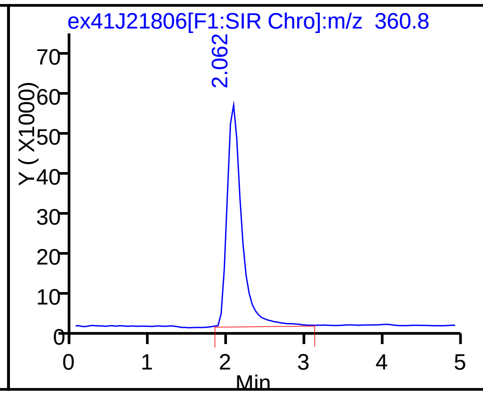
Report Date: 04-Nov-2011 06:47:13 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21806.d

Injection Date:	04-Nov-2011 00:33:21	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	57
Operator ID:		Injection Vol:	40.00 ul

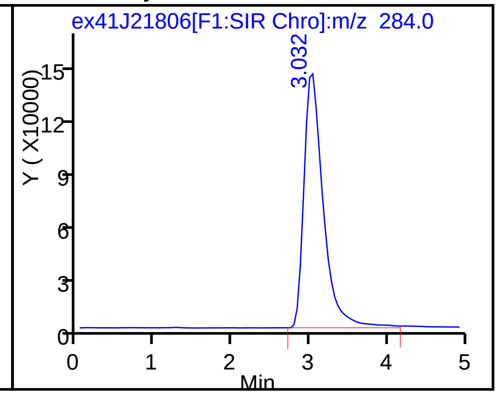
2 HMX



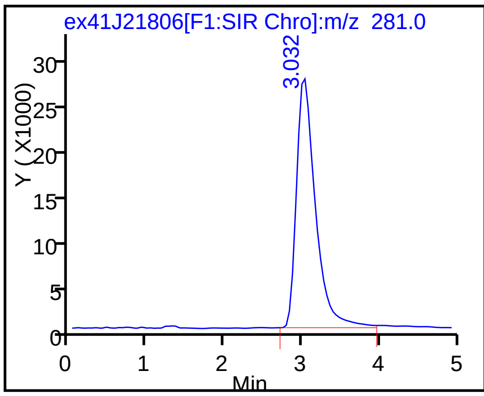
* 1 HMX-13C4



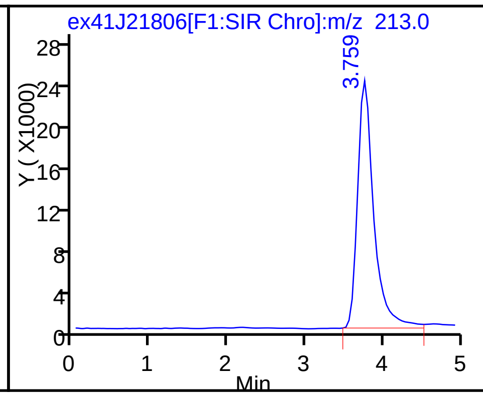
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



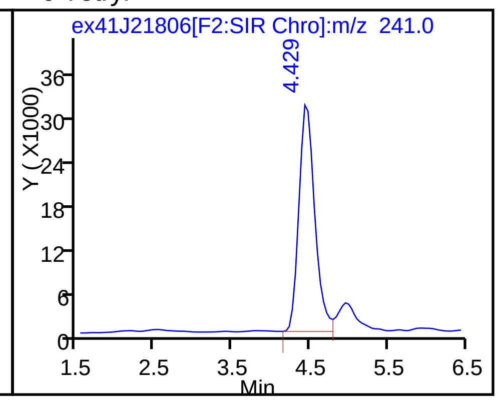
4 RDX



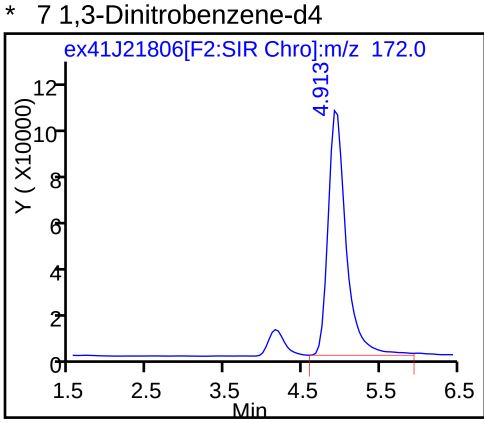
5 1,3,5-Trinitrobenzene



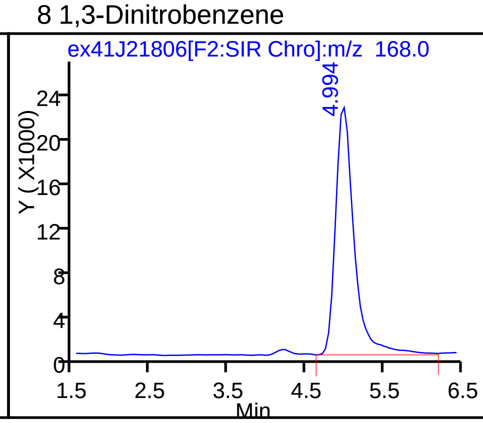
6 Tetryl



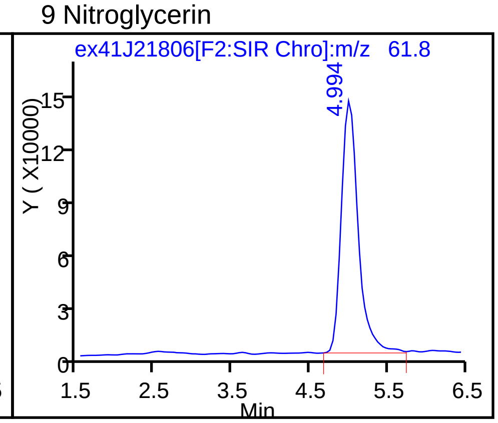
* 7 1,3-Dinitrobenzene-d4



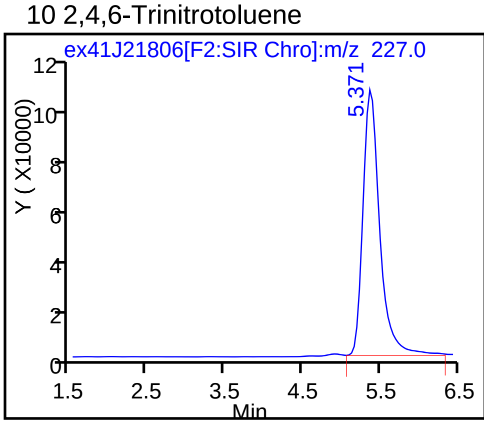
8 1,3-Dinitrobenzene



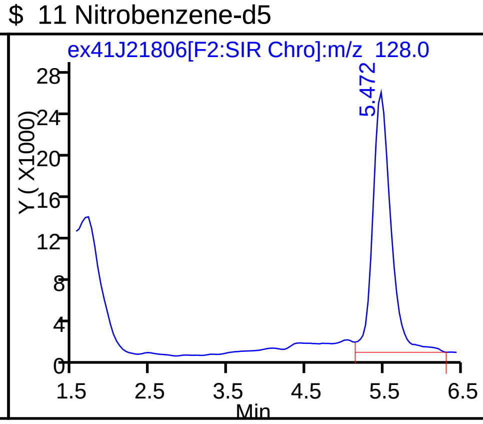
9 Nitroglycerin



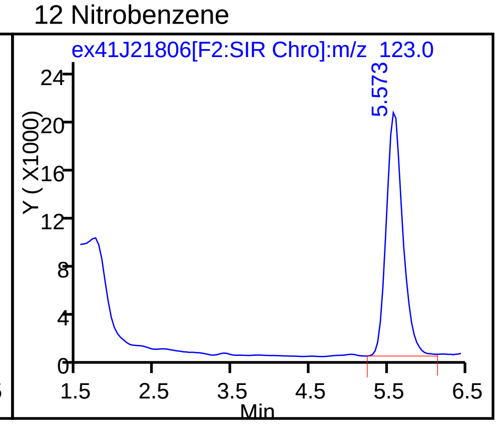
10 2,4,6-Trinitrotoluene



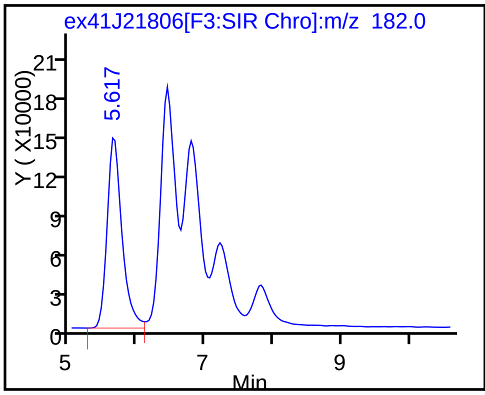
$ 11 Nitrobenzene-d5



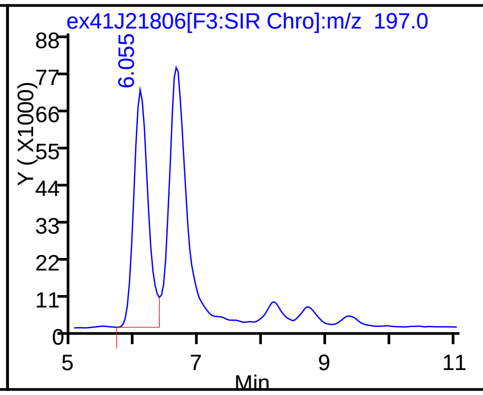
12 Nitrobenzene



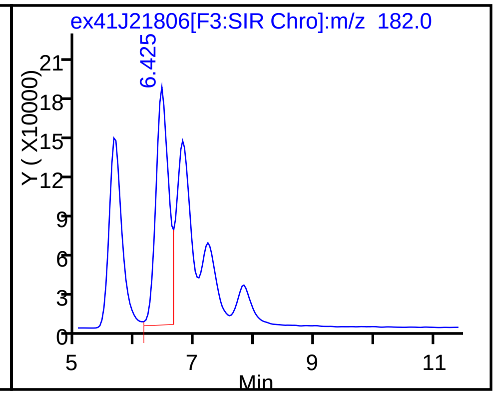
13 3,4-Dinitrotoluene



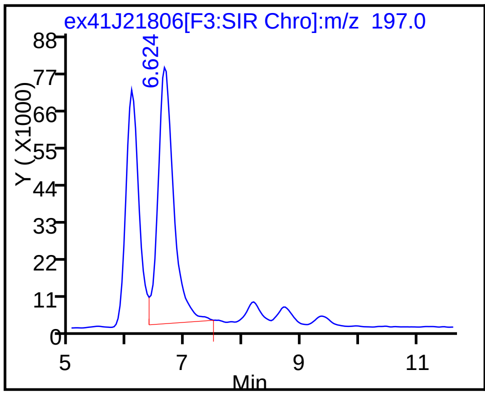
14 4-Amino-2,6-dinitrotoluene



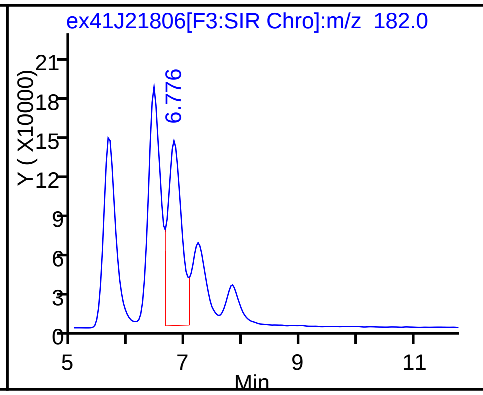
15 2,3-Dinitrotoluene



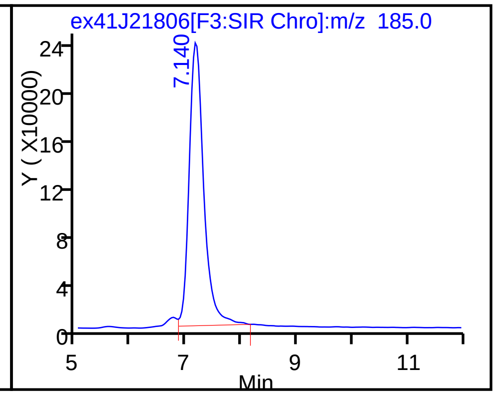
16 2-Amino-4,6-dinitrotoluene



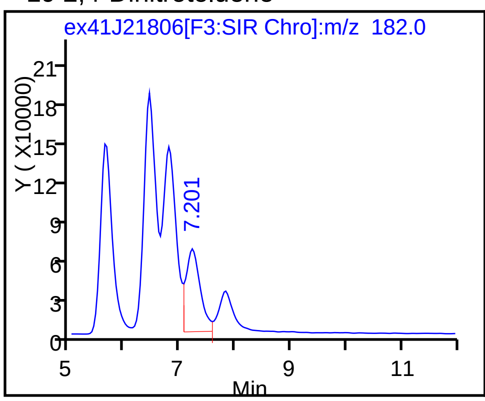
17 2,6-Dinitrotoluene



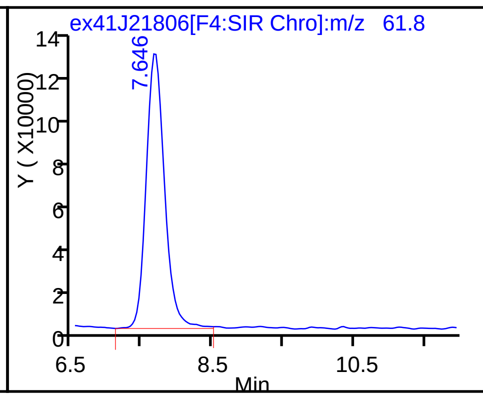
* 18 2,4-dinitrotoluene-d3



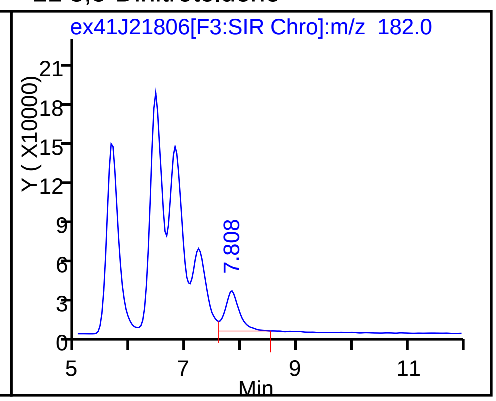
19 2,4-Dinitrotoluene



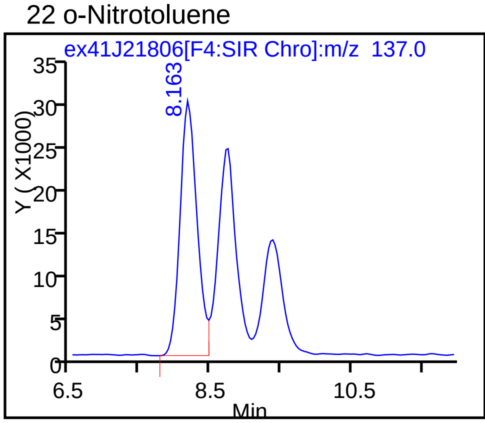
20 PETN



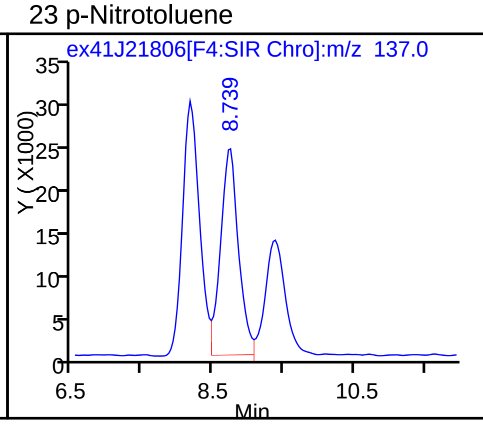
21 3,5-Dinitrotoluene



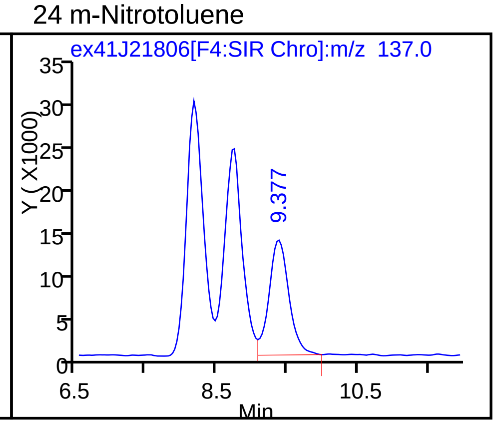
22 o-Nitrotoluene



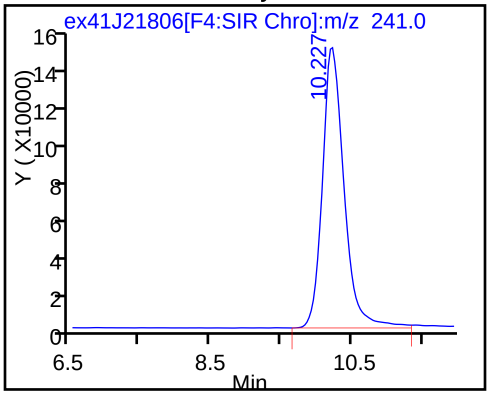
23 p-Nitrotoluene



24 m-Nitrotoluene



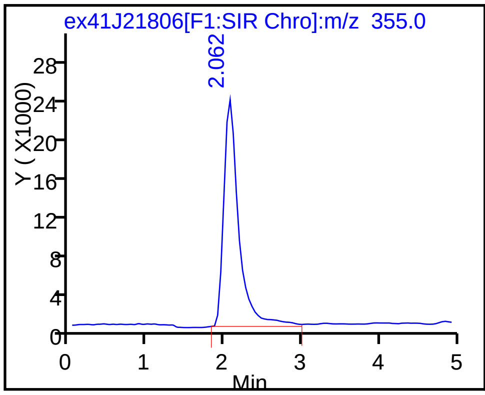
25 2,4,6-Trinitro-3-xylene



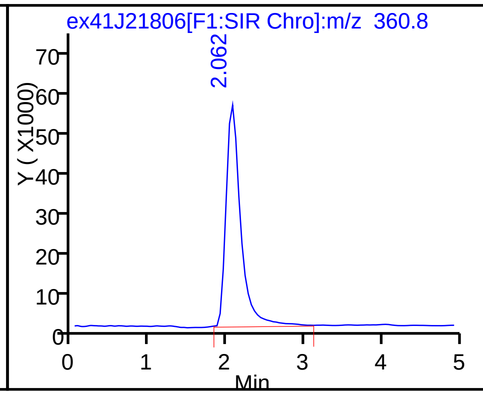
Report Date: 04-Nov-2011 06:47:13 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21806.d

Injection Date:	04-Nov-2011 00:33:21	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	57
Operator ID:		Injection Vol:	40.00 ul

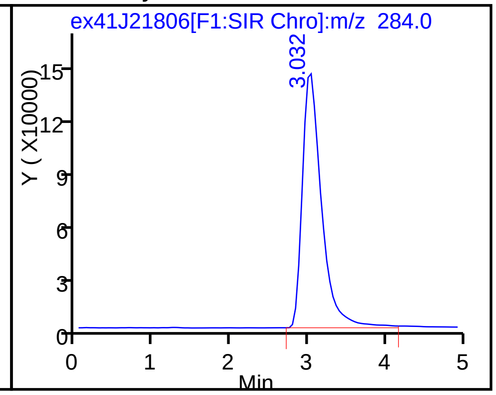
2 HMX



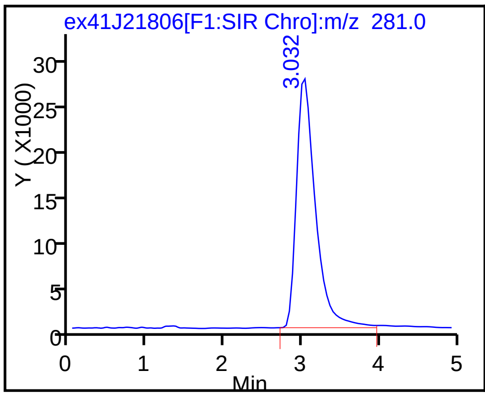
* 1 HMX-13C4



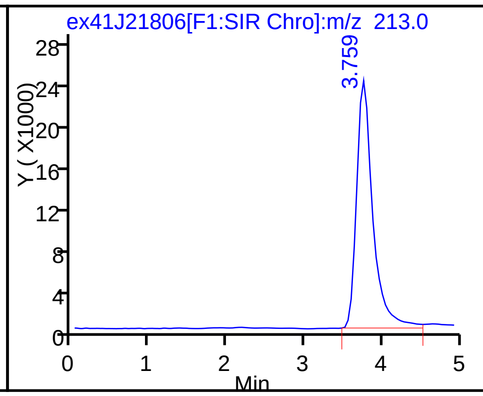
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



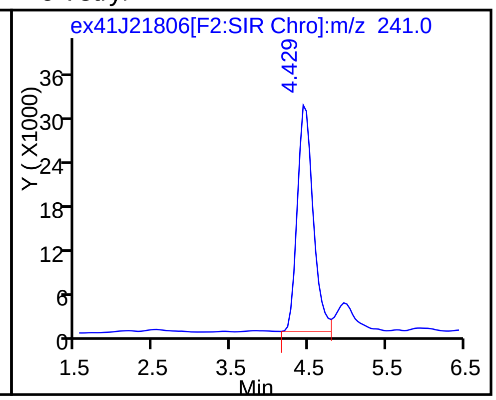
4 RDX



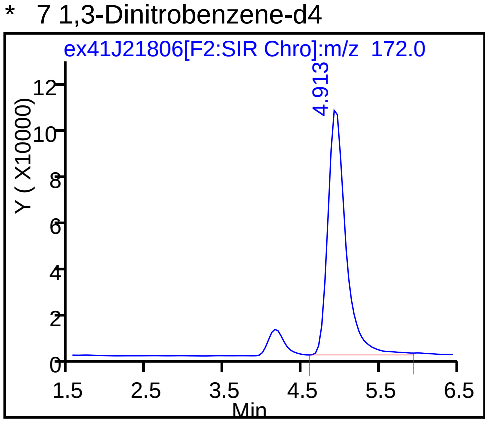
5 1,3,5-Trinitrobenzene



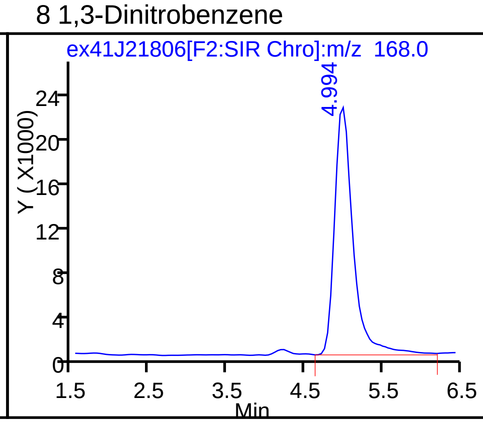
6 Tetryl



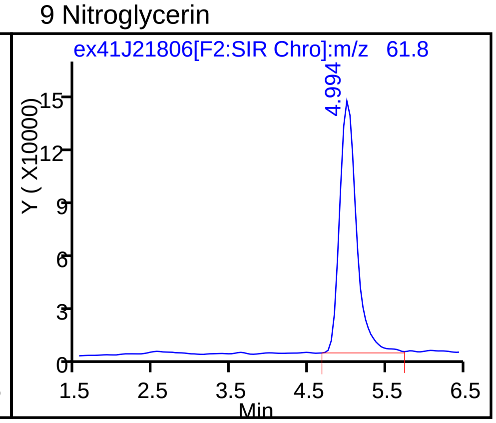
* 7 1,3-Dinitrobenzene-d4



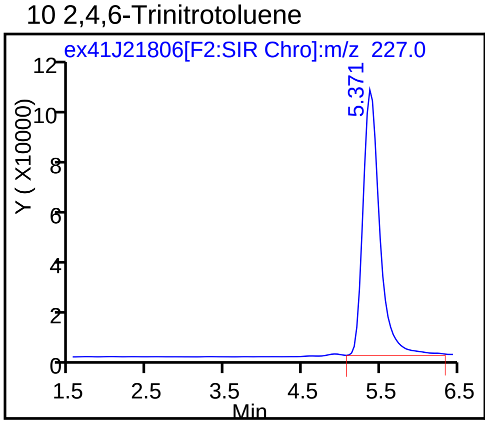
8 1,3-Dinitrobenzene



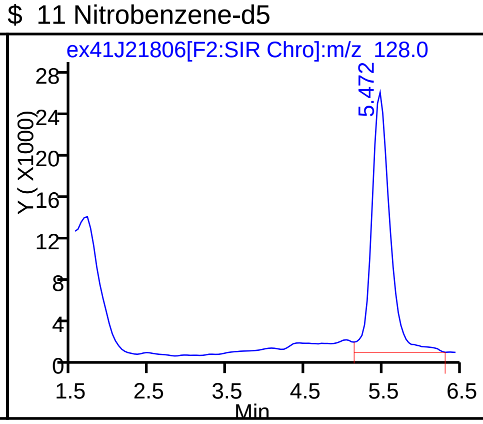
9 Nitroglycerin



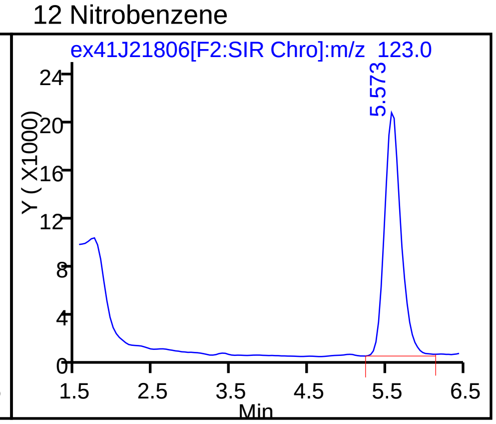
10 2,4,6-Trinitrotoluene



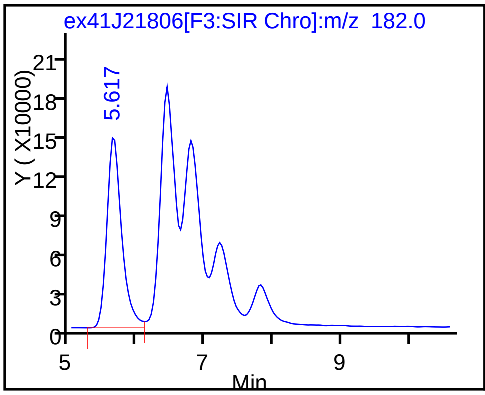
$ 11 Nitrobenzene-d5



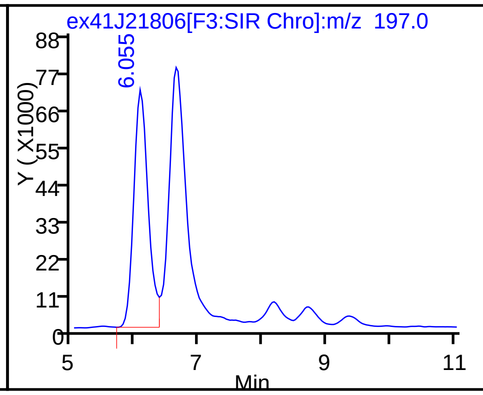
12 Nitrobenzene



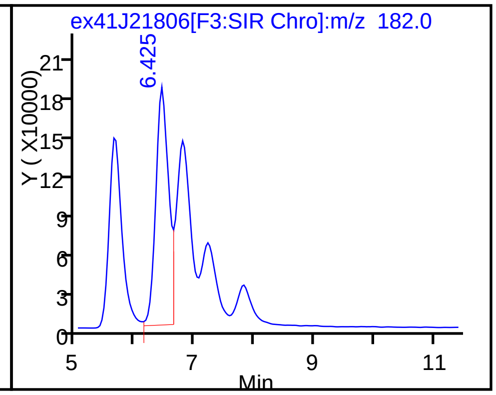
13 3,4-Dinitrotoluene



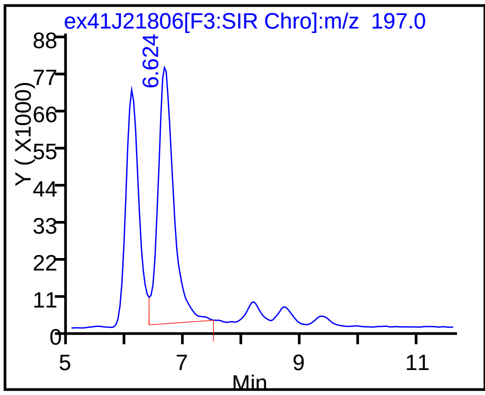
14 4-Amino-2,6-dinitrotoluene



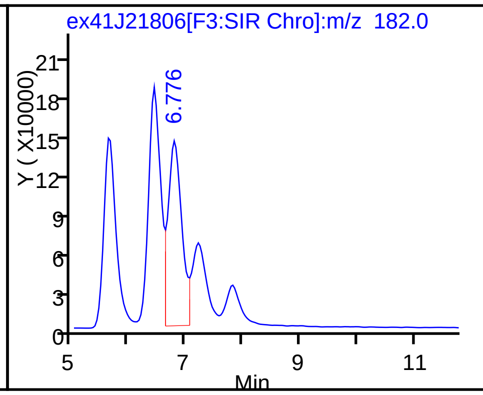
15 2,3-Dinitrotoluene



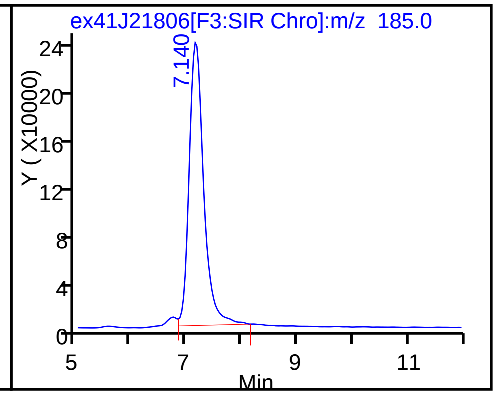
16 2-Amino-4,6-dinitrotoluene



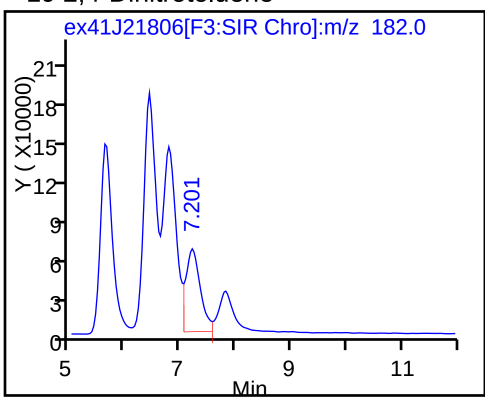
17 2,6-Dinitrotoluene



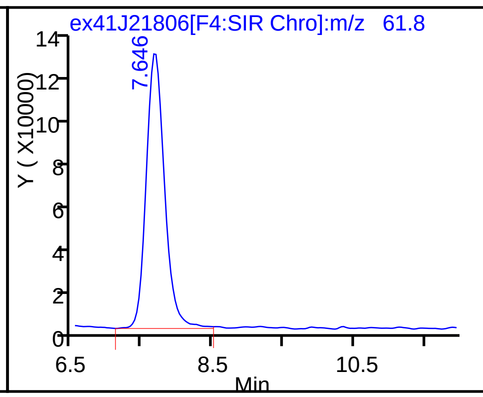
* 18 2,4-dinitrotoluene-d3



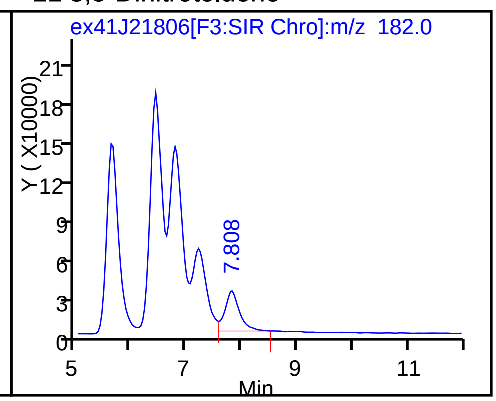
19 2,4-Dinitrotoluene



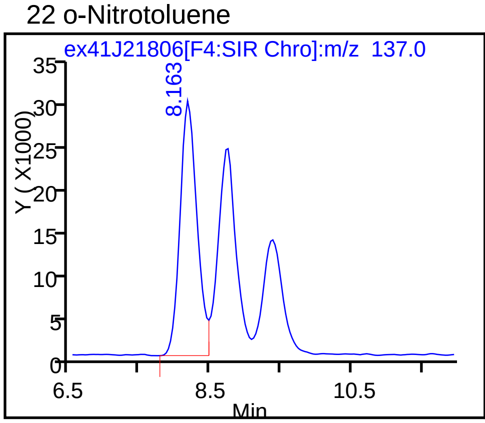
20 PETN



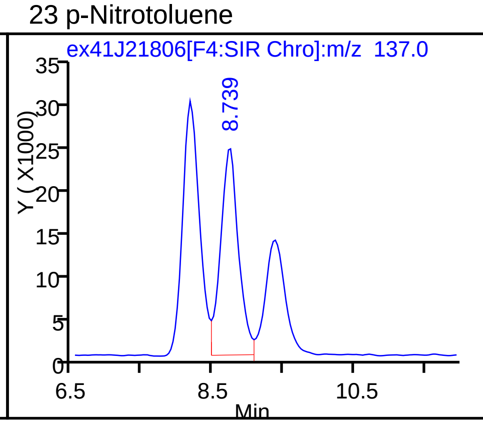
21 3,5-Dinitrotoluene



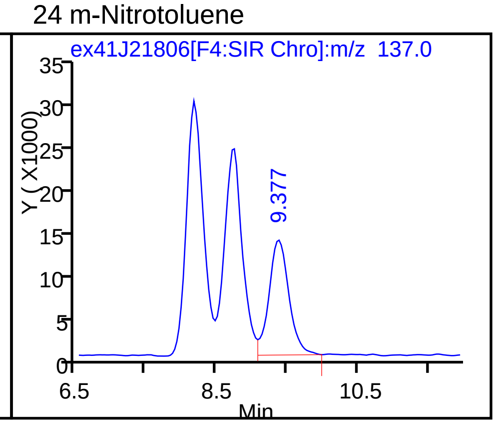
22 o-Nitrotoluene



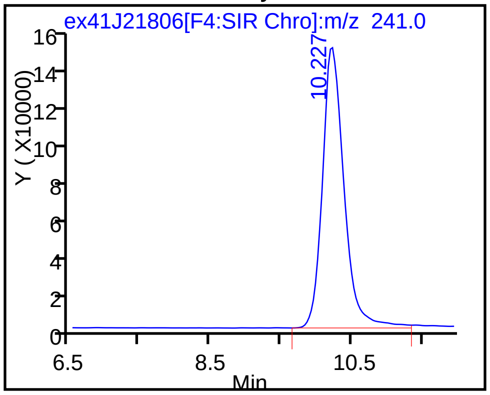
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94612/66   Calibration Date: 11/04/2011 02:35

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21815.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		1.972		88.0	100	-12.0	20.0
RDX	Lin1		1.007		104	98.7	5.7	20.0
1,3,5-Trinitrobenzene	Lin1		1.109		93.5	100	-6.6	20.0
Tetryl	Lin1		1.393		100	99.4	0.7	20.0
1,3-Dinitrobenzene	Lin1		1.118		101	101	-0.6	20.0
Nitroglycerin	Lin1		6.157		91.8	100	-8.2	30.0
2,4,6-Trinitrotoluene	Lin1		5.245		106	100	5.8	20.0
Nitrobenzene	Lin1		0.8847		87.0	99.9	-12.9	20.0
3,4-Dinitrotoluene	Lin1		2.209		95.8	100	-4.2	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.158		96.1	98.7	-2.6	20.0
2,3-Dinitrotoluene	Lin1		2.934		96.9	100	-3.1	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.694		116	100	15.5	20.0
2,6-Dinitrotoluene	Lin1		2.721		102	100	2.3	20.0
2,4-Dinitrotoluene	Lin1		1.142		89.8	100	-10.5	20.0
PETN	Lin1		2.083		106	99.8	6.2	30.0
3,5-Dinitrotoluene	Lin1		0.5692		87.7	100	-12.3	30.0
2-Nitrotoluene	Lin1		0.5598		104	99.1	5.2	20.0
4-Nitrotoluene	Lin1		0.4830		101	99.5	1.8	20.0
3-Nitrotoluene	Lin1		0.2970		100	98.8	1.4	20.0
2,4,6-Trinitro-3-xylene	Lin1		11.40		103	100	2.9	30.0
Nitrobenzene-d5	Lin1		1.110		86.9	100	-13.1	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21815.d
Lims ID: CCV Client ID:
Inject. Date: 04-Nov-2011 02:35:46 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 11/03/11EX5 CCV 100 ug/L 280-0002711-066
Misc. Info.: ex41J21 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 6
Lims Batch ID: 94612 Lims Sample ID: 66
Sublist: chrom-8321exp4-25*sub3
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m
Last Update: 04-Nov-2011 07:37:20 Calib Date: 21-Oct-2011 10:50:13
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

First Level Reviewer: meyera Date: 04-Nov-2011 06:42:03

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	520762	88.0			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		660206	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	2.991	2.991	0.000		1999835	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.013	794990	104.3			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	676449	93.5			
	6 Tetryl									
2	241.0	4.429	4.429	0.000	0.894	843714	100.1			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		1576923	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	4.994	4.994	0.000	1.008	691154	100.8			
	9 Nitroglycerin									
2	61.8	4.994	4.994	0.000	1.008	3752603	91.8			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.371	5.371	0.000	1.084	3199881	105.9			
$	11 Nitrobenzene-d5									M
2	128.0	5.439	5.439	0.000	1.098	676983	86.9			M
	12 Nitrobenzene									
2	123.0	5.573	5.573	0.000	1.125	538702	87.0			
	13 3,4-Dinitrotoluene									
3	182.0	5.617	5.617	0.000	0.787	4162870	95.8			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.055	6.055	0.000	0.848	2153867	96.1			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.425	0.000	0.900	5526132	96.9			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.932	3193625	115.6			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.776	0.000	0.949	5131474	102.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4709754	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.201	0.000	1.009	2158258	89.8			
20 PETN										
4	61.8	7.646	7.646	0.000	1.000	3916167	106.0			
21 3,5-Dinitrotoluene										
3	182.0	7.808	7.808	0.000	1.094	1072317	87.7			
22 o-Nitrotoluene										
4	137.0	8.163	8.163	0.000	1.000	1045023	104.3			
23 p-Nitrotoluene										
4	137.0	8.709	8.709	0.000	1.000	905277	101.3			
24 m-Nitrotoluene										
4	137.0	9.377	9.377	0.000	1.000	552826	100.2			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.227	10.227	0.000	1.000	6946377	102.9			

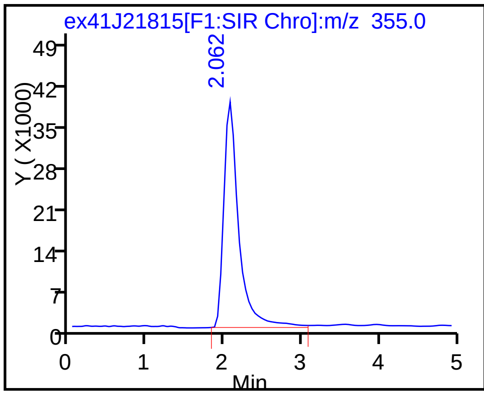
QC Flag Legend

Review Flags
M - Manually Integrated

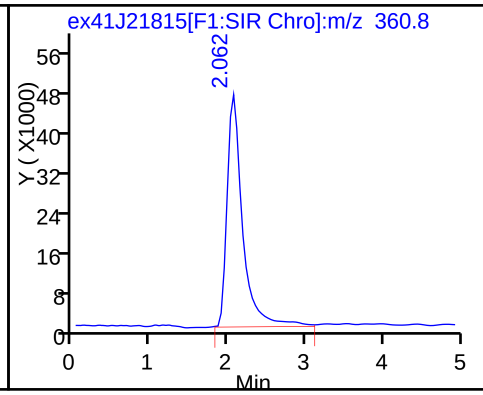
Report Date: 04-Nov-2011 07:37:21 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21815.d		
Injection Date:	04-Nov-2011 02:35:46	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	66
Operator ID:		Injection Vol:	40.00 ul

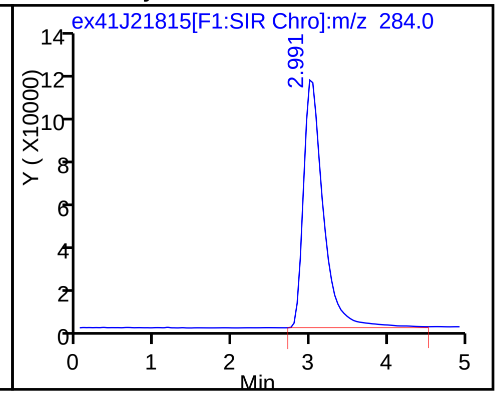
2 HMX



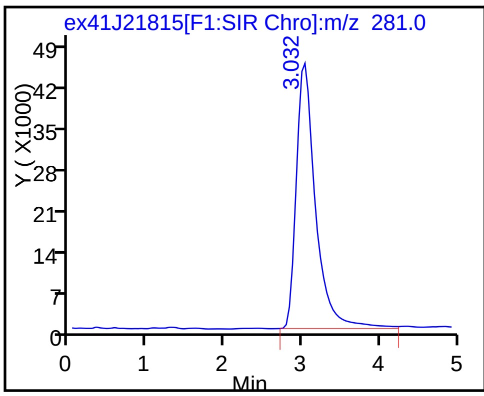
* 1 HMX-13C4



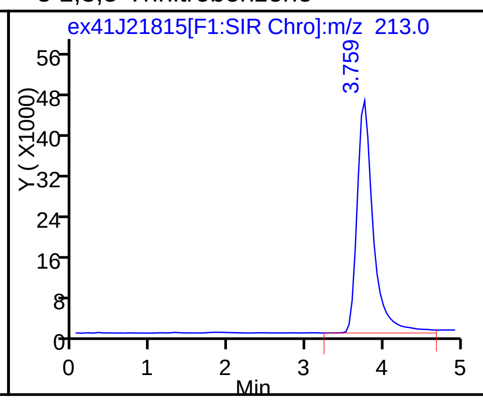
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



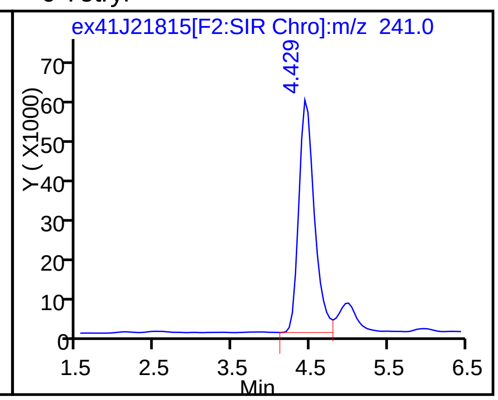
4 RDX



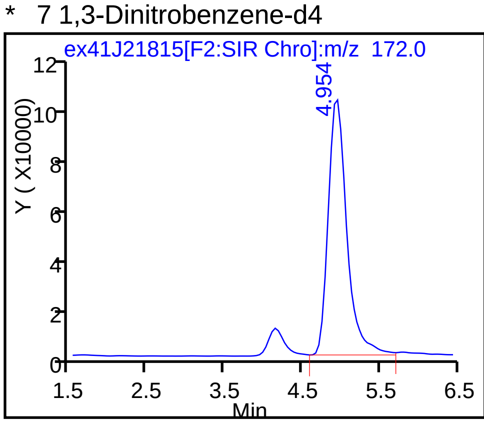
5 1,3,5-Trinitrobenzene



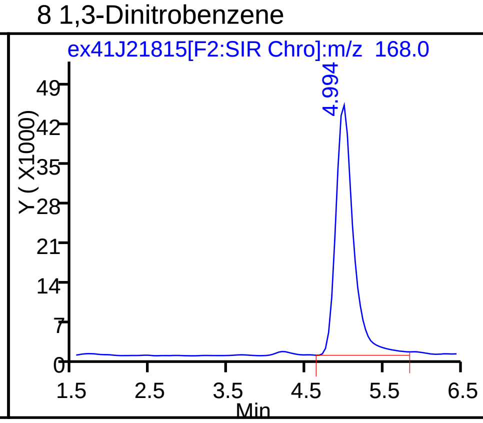
6 Tetryl



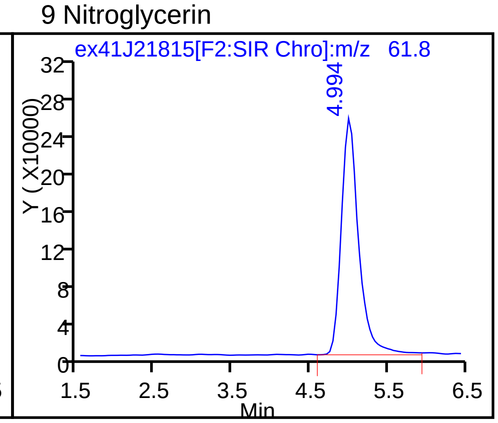
* 7 1,3-Dinitrobenzene-d4



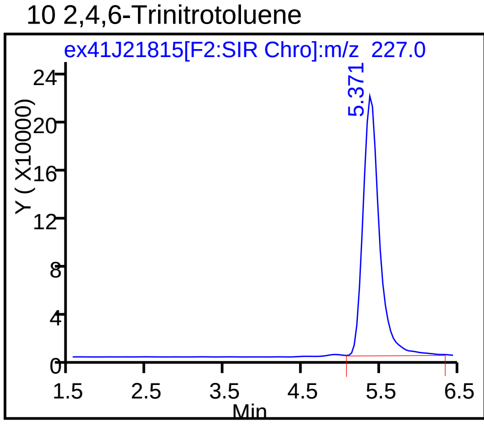
8 1,3-Dinitrobenzene



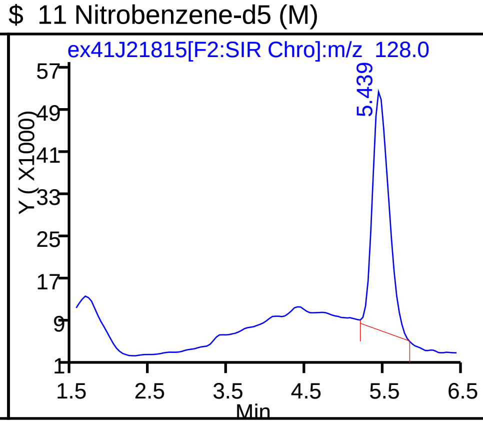
9 Nitroglycerin



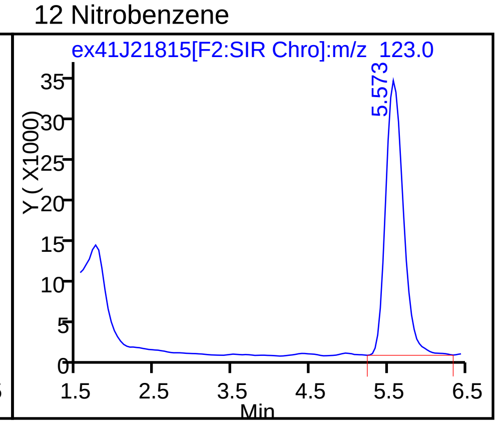
10 2,4,6-Trinitrotoluene



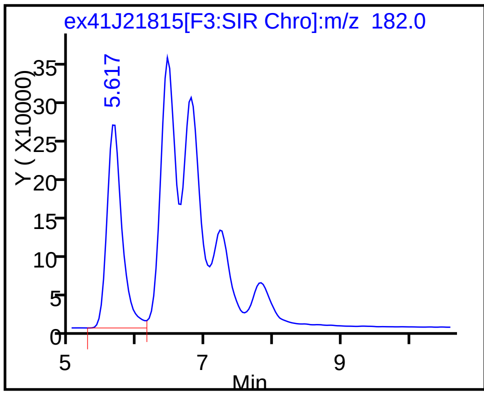
$ 11 Nitrobenzene-d5 (M)



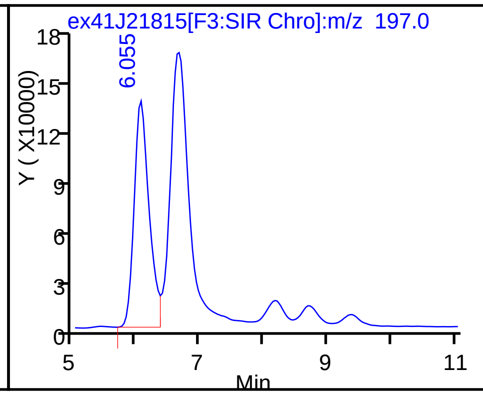
12 Nitrobenzene



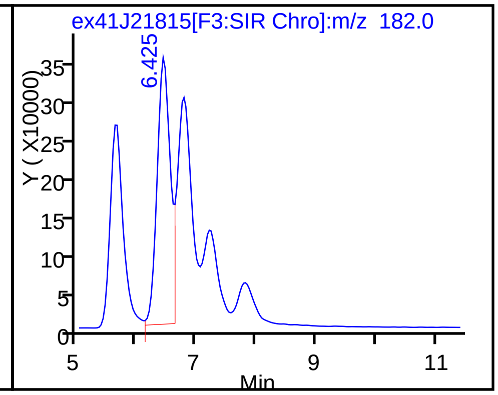
13 3,4-Dinitrotoluene



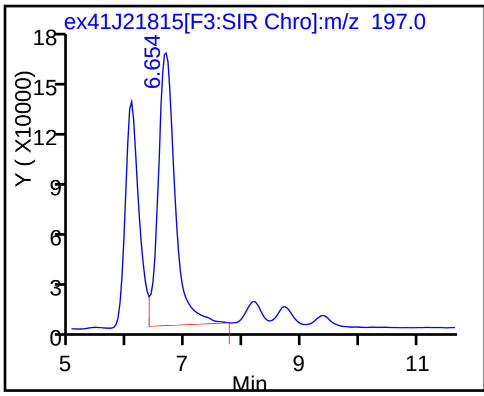
14 4-Amino-2,6-dinitrotoluene



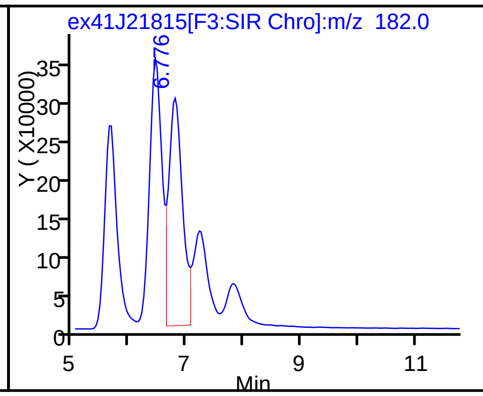
15 2,3-Dinitrotoluene



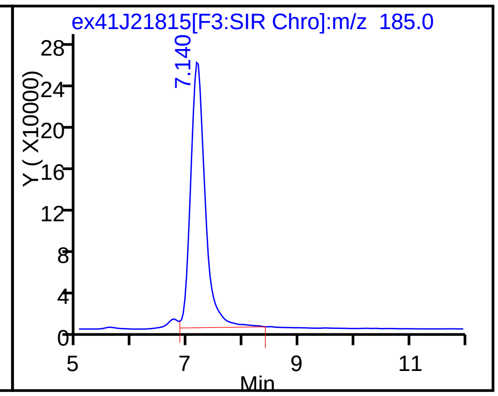
16 2-Amino-4,6-dinitrotoluene



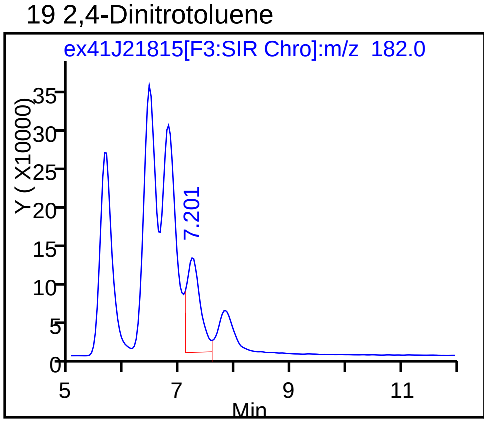
17 2,6-Dinitrotoluene



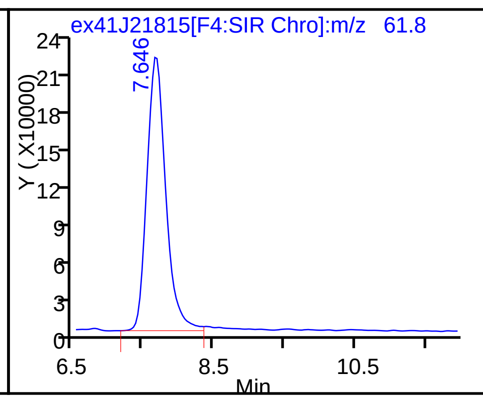
* 18 2,4-dinitrotoluene-d3



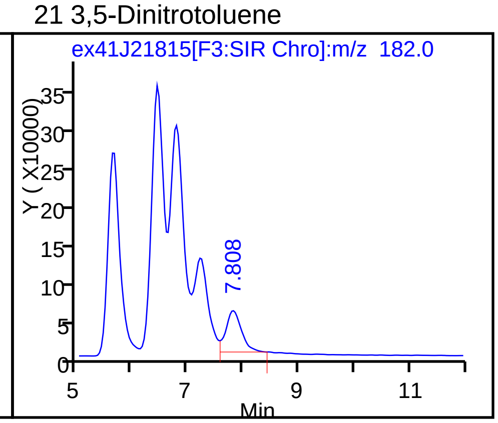
19 2,4-Dinitrotoluene



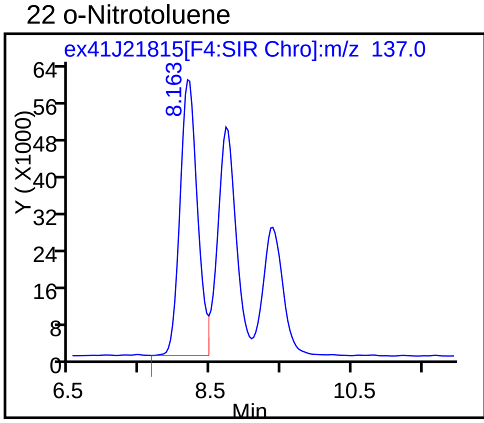
20 PETN



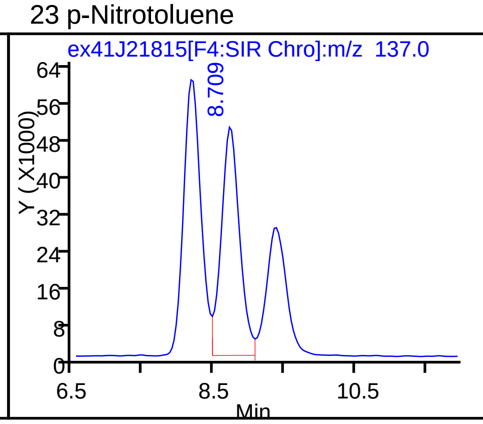
21 3,5-Dinitrotoluene



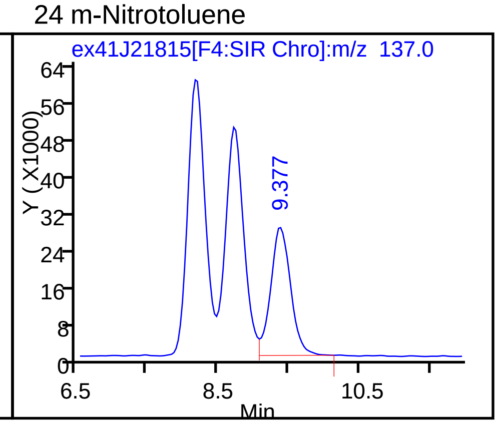
22 o-Nitrotoluene



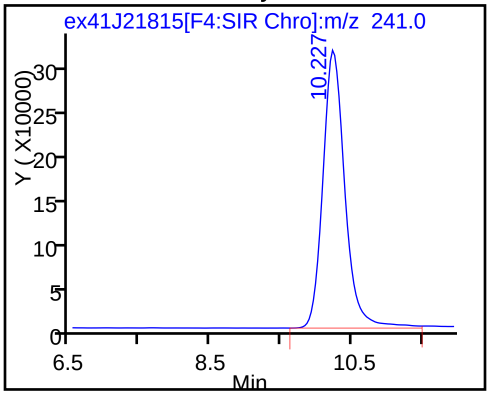
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



Report Date: 04-Nov-2011 07:37:21 Chrom Revision: 1.2 13-Jul-2011 10:43:06

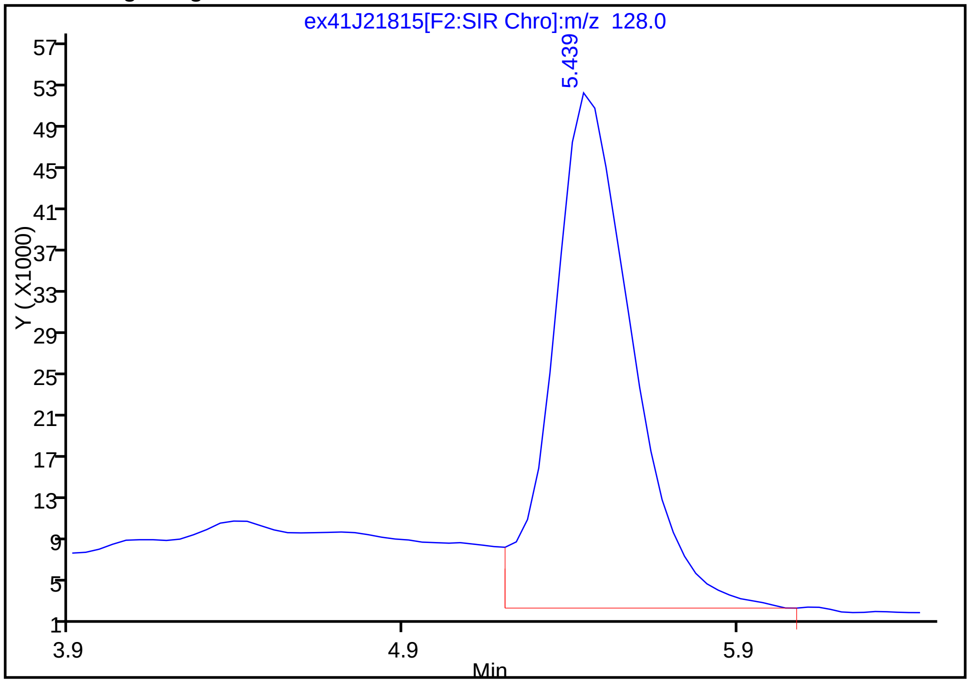
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21815.d		
Injection Date:	04-Nov-2011 02:35:46	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	66
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.44, Det: F2:SIR

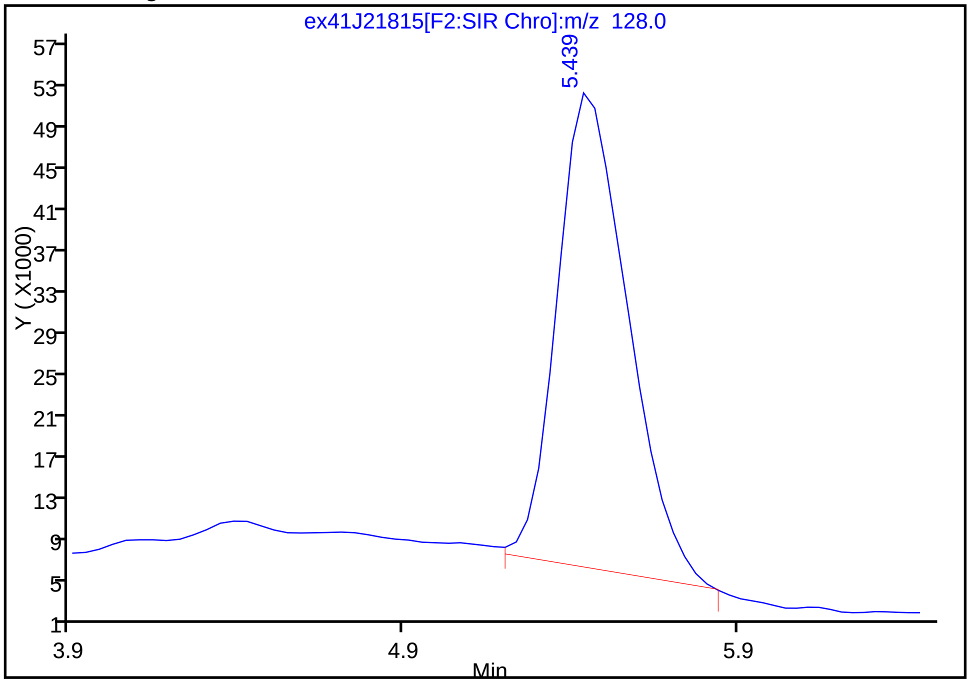
Processing Integration Results

RT: 5.44
Response: 826416
Amount: 106.2648



Manual Integration Results

RT: 5.44
Response: 676983
Amount: 86.946463



Reviewer: meyera, 04-Nov-2011 06:42:03
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94612/75 Calibration Date: 11/04/2011 04:38

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21824.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.022		45.5	50.0	-9.0	20.0
RDX	Lin1		0.9708		50.2	49.4	1.7	20.0
1,3,5-Trinitrobenzene	Lin1		1.085		46.9	50.1	-6.3	20.0
Tetryl	Lin1		1.297		47.6	49.7	-4.2	20.0
1,3-Dinitrobenzene	Lin1		1.118		50.6	50.7	-0.2	20.0
Nitroglycerin	Lin1		6.207		46.8	50.0	-6.4	30.0
2,4,6-Trinitrotoluene	Lin1		5.058		51.4	50.1	2.7	20.0
Nitrobenzene	Lin1		0.8883		43.8	50.0	-12.3	20.0
3,4-Dinitrotoluene	Lin1		2.570		55.6	50.0	11.2	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.229		51.0	49.4	3.3	20.0
2,3-Dinitrotoluene	Lin1		3.421		56.4	50.0	12.8	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.631		55.5	50.1	10.9	20.0
2,6-Dinitrotoluene	Lin1		2.642		49.7	50.1	-0.7	20.0
2,4-Dinitrotoluene	Lin1		1.239		48.8	50.2	-2.7	20.0
PETN	Lin1		2.387		59.9	49.9	20.0	30.0
3,5-Dinitrotoluene	Lin1		0.6174		48.1	50.0	-3.8	30.0
2-Nitrotoluene	Lin1		0.5526		51.4	49.6	3.7	20.0
4-Nitrotoluene	Lin1		0.5245		55.2	49.8	11.0	20.0
3-Nitrotoluene	Lin1		0.3093		52.1	49.4	5.5	20.0
2,4,6-Trinitro-3-xylene	Lin1		11.46		51.8	50.0	3.6	30.0
Nitrobenzene-d5	Lin1		1.051		40.8	50.0	-18.4	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21824.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	04-Nov-2011 04:38:23	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/03/11EX4 CCV 50 ug/L 280-0002711-075		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94612	Lims Sample ID:	75
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:49:41	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 07:49:41

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	268723	45.5			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		664648	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	2.991	2.991	0.000		2259680	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.013	433054	50.2			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	338793	46.9			
	6 Tetryl									
2	241.0	4.429	4.429	0.000	0.901	402401	47.6			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.913	4.913	0.000		1614634	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	4.954	4.954	0.000	1.008	353622	50.6			
	9 Nitroglycerin									
2	61.8	4.994	4.994	0.000	1.016	1936942	46.8			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.337	5.337	0.000	1.086	1579765	51.4			
$	11 Nitrobenzene-d5									M
2	128.0	5.438	5.438	0.000	1.107	328027	40.8			M
	12 Nitrobenzene									
2	123.0	5.573	5.573	0.000	1.134	276899	43.8			
	13 3,4-Dinitrotoluene									
3	182.0	5.617	5.617	0.000	0.790	2329485	55.6			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.021	6.021	0.000	0.847	1098716	51.0			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.391	6.391	0.000	0.899	3099260	56.4			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.594	6.594	0.000	0.927	1479351	55.5			
17 2,6-Dinitrotoluene										
3	182.0	6.745	6.745	0.000	0.949	2396592	49.7			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.110	7.110	0.000		4530595	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.170	7.170	0.000	1.009	1125869	48.8			
20 PETN										
4	61.8	7.616	7.616	0.000	1.000	2158344	59.9			
21 3,5-Dinitrotoluene										
3	182.0	7.778	7.778	0.000	1.094	559476	48.1			
22 o-Nitrotoluene										
4	137.0	8.132	8.132	0.000	1.000	496236	51.4			
23 p-Nitrotoluene										
4	137.0	8.648	8.648	0.000	1.000	472895	55.2			
24 m-Nitrotoluene										
4	137.0	9.316	9.316	0.000	1.000	276918	52.1			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.167	10.167	0.000	1.000	3577412	51.8			

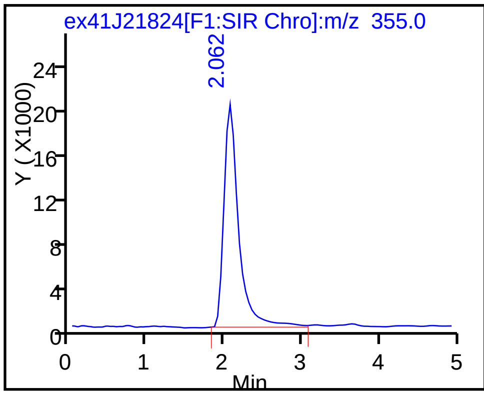
QC Flag Legend

Review Flags
M - Manually Integrated

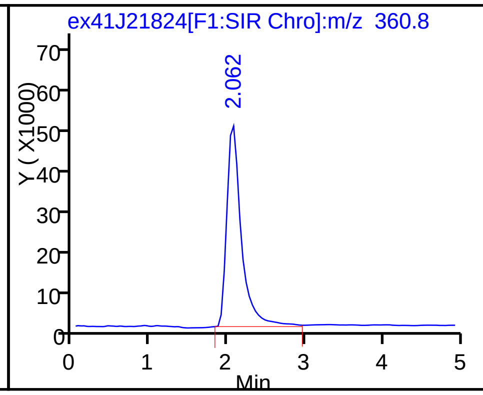
Report Date: 04-Nov-2011 07:49:41 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21824.d

Injection Date:	04-Nov-2011 04:38:23	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	75
Operator ID:		Injection Vol:	40.00 ul

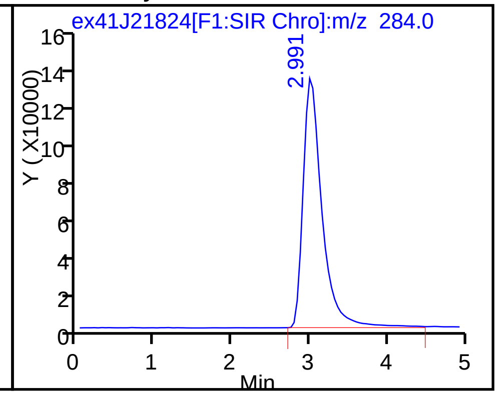
2 HMX



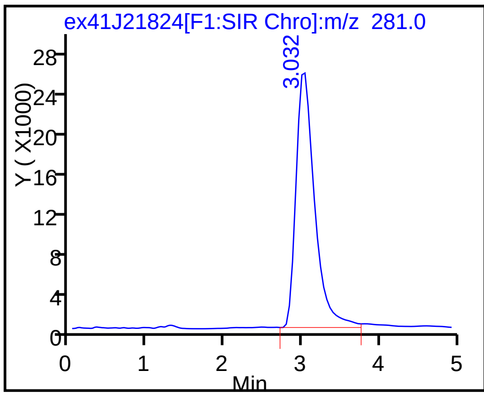
* 1 HMX-13C4



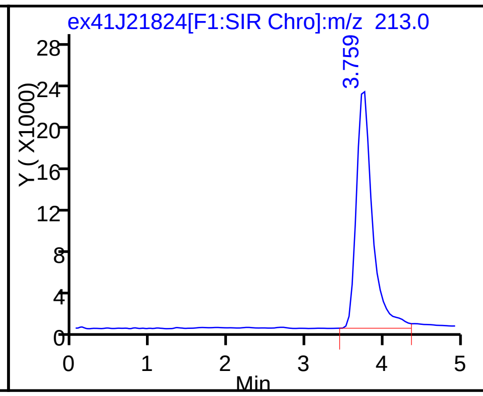
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



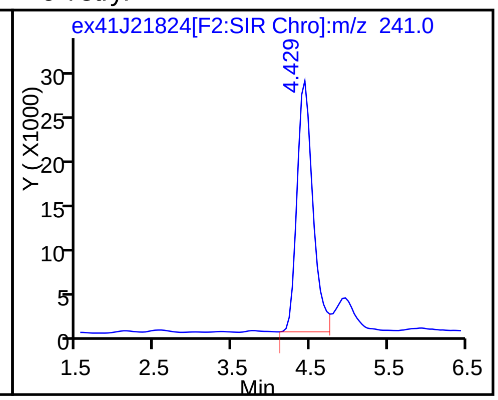
4 RDX



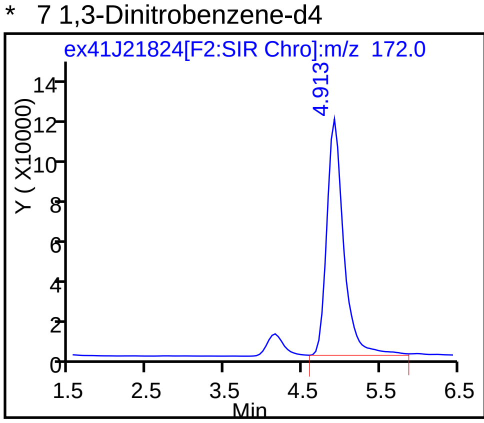
5 1,3,5-Trinitrobenzene



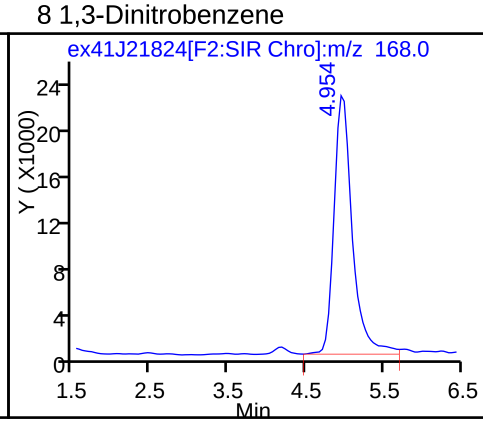
6 Tetryl



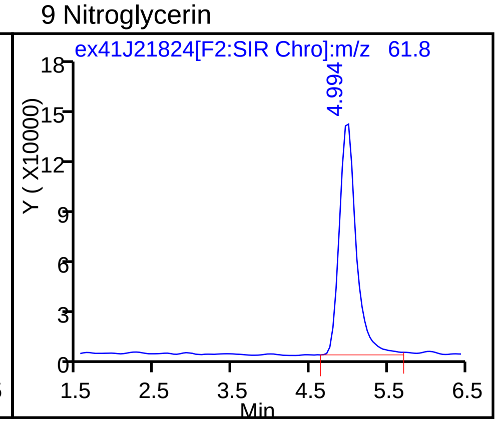
* 7 1,3-Dinitrobenzene-d4



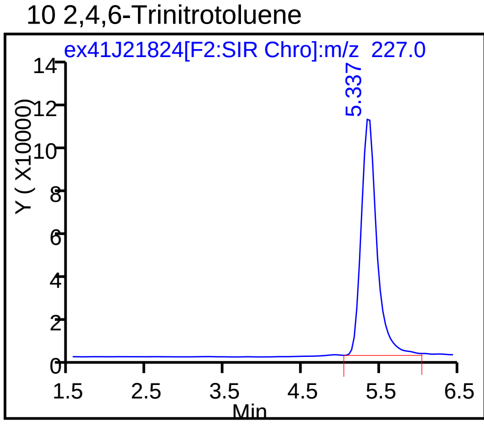
8 1,3-Dinitrobenzene



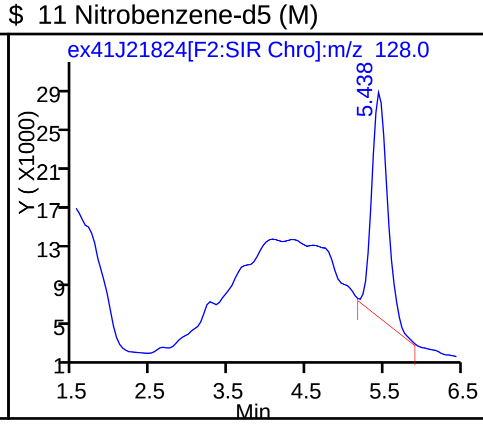
9 Nitroglycerin



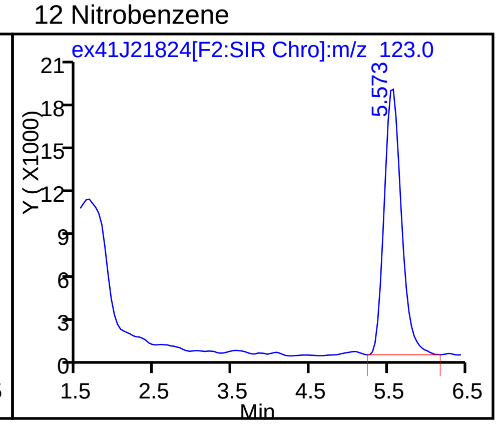
10 2,4,6-Trinitrotoluene



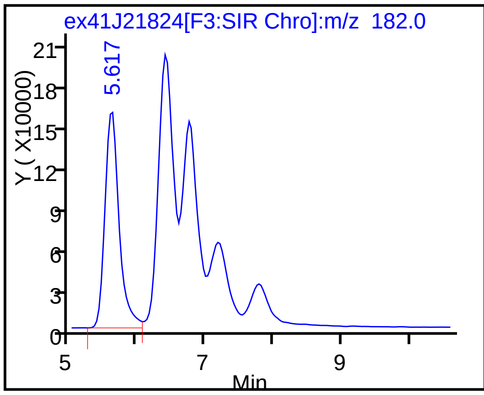
$ 11 Nitrobenzene-d5 (M)



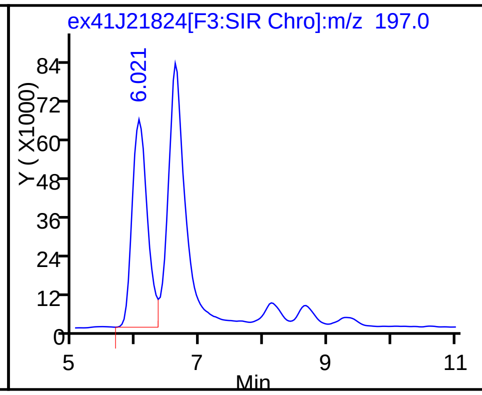
12 Nitrobenzene



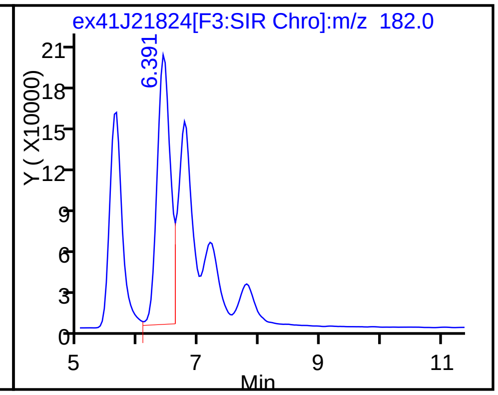
13 3,4-Dinitrotoluene



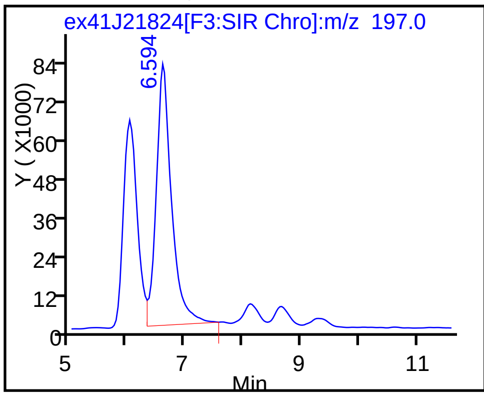
14 4-Amino-2,6-dinitrotoluene



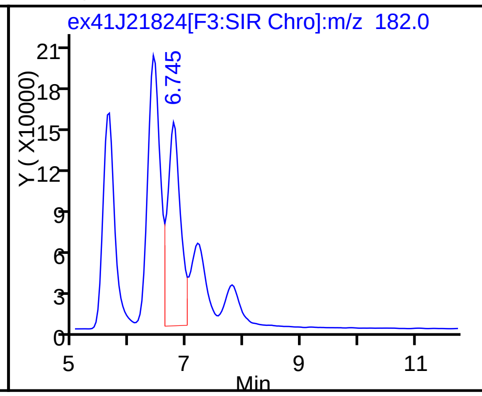
15 2,3-Dinitrotoluene



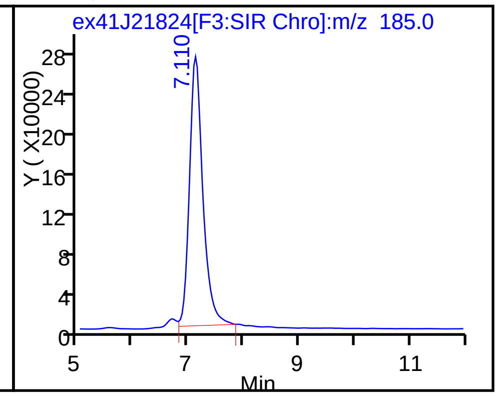
16 2-Amino-4,6-dinitrotoluene



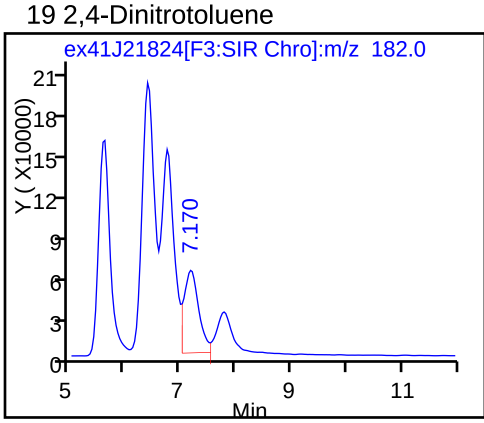
17 2,6-Dinitrotoluene



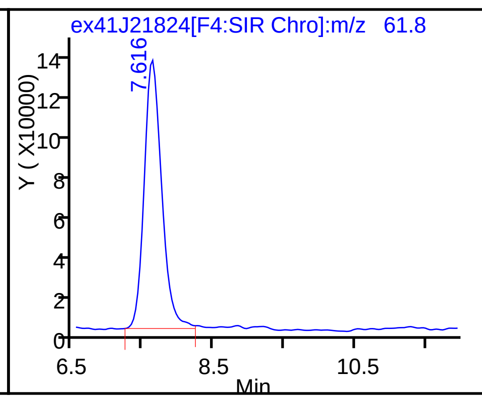
* 18 2,4-dinitrotoluene-d3



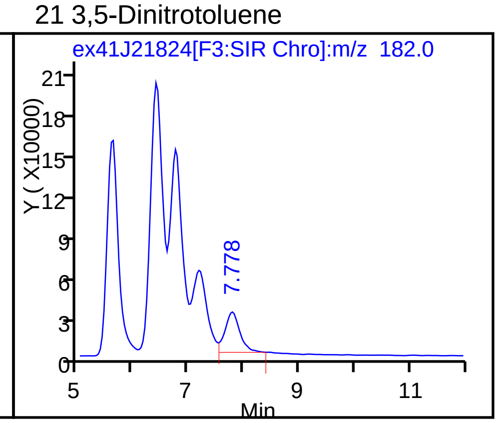
19 2,4-Dinitrotoluene



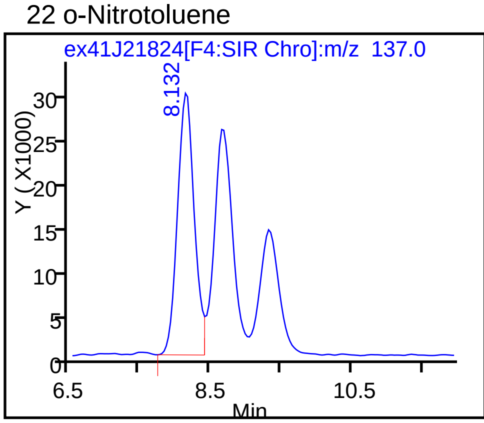
20 PETN



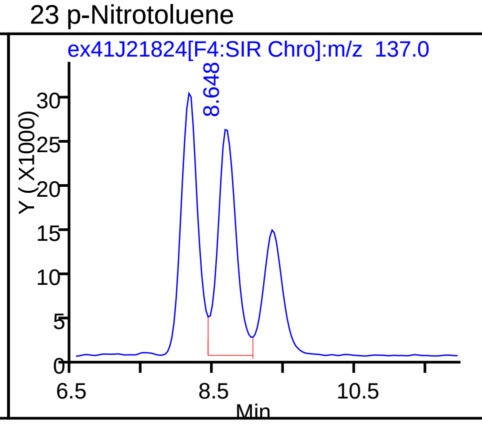
21 3,5-Dinitrotoluene



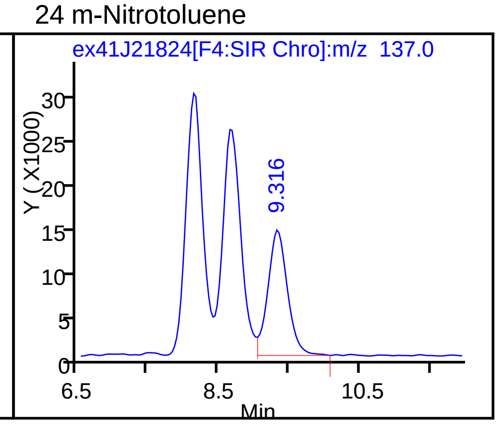
22 o-Nitrotoluene



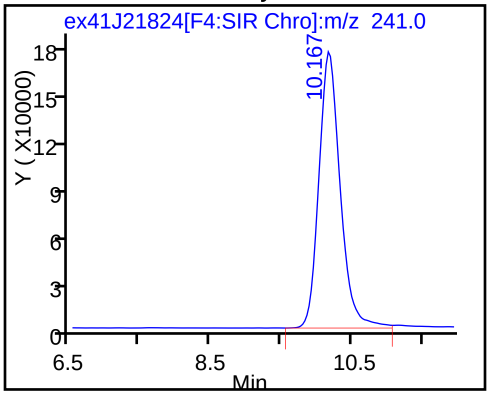
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



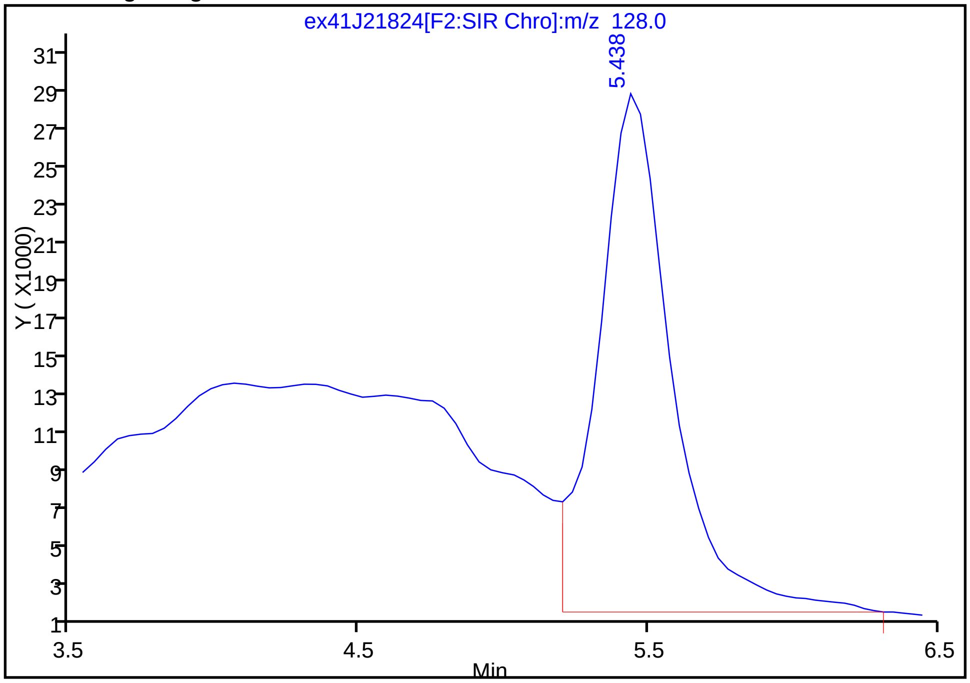
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21824.d		
Injection Date:	04-Nov-2011 04:38:23	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	75
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.44, Det: F2:SIR

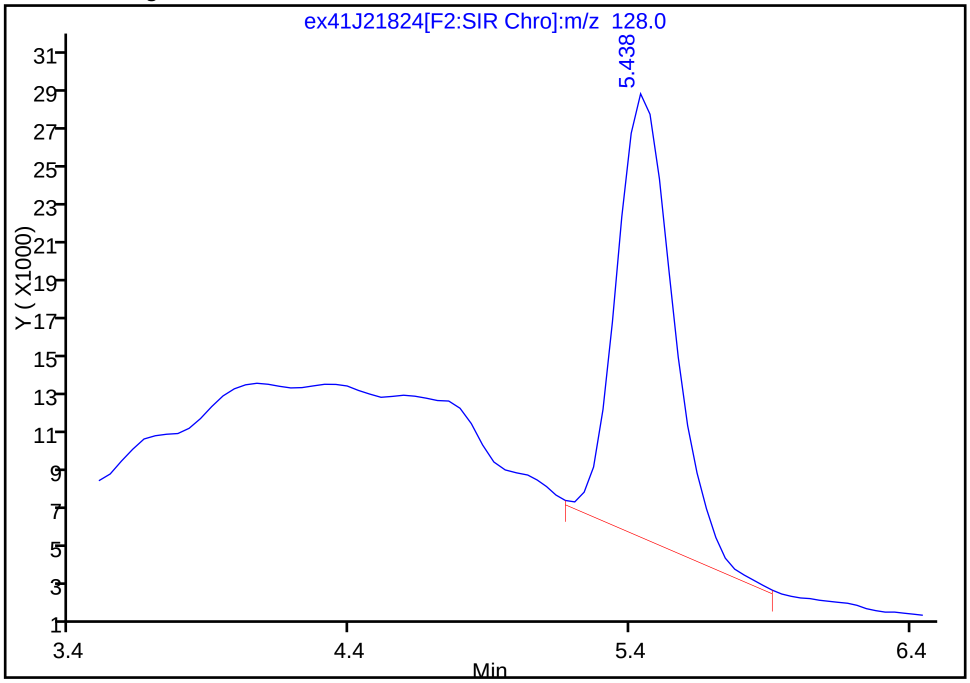
Processing Integration Results

RT: 5.44
Response: 477618
Amount: 59.730876



Manual Integration Results

RT: 5.44
Response: 328027
Amount: 40.843747



Reviewer: meyera, 04-Nov-2011 07:49:33
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94612/85   Calibration Date: 11/04/2011 06:55

Instrument ID: LC_LCMS4   Calib Start Date: 10/21/2011 09:28

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21834.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		1.981		88.4	100	-11.6	20.0
RDX	Lin1		0.996		103	98.7	4.6	20.0
1,3,5-Trinitrobenzene	Lin1		1.129		95.2	100	-4.9	20.0
Tetryl	Lin1		1.475		106	99.4	6.5	20.0
1,3-Dinitrobenzene	Lin1		1.105		99.6	101	-1.8	20.0
Nitroglycerin	Lin1		6.801		101	100	1.2	30.0
2,4,6-Trinitrotoluene	Lin1		4.726		95.5	100	-4.6	20.0
Nitrobenzene	Lin1		0.9837		96.7	99.9	-3.2	20.0
3,4-Dinitrotoluene	Lin1		2.207		95.8	100	-4.2	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.234		102	98.7	3.7	20.0
2,3-Dinitrotoluene	Lin1		3.302		109	100	9.0	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.454		99.2	100	-0.9	20.0
2,6-Dinitrotoluene	Lin1		2.589		97.4	100	-2.7	20.0
2,4-Dinitrotoluene	Lin1		1.156		90.9	100	-9.4	20.0
PETN	Lin1		2.356		120	99.8	20.4	30.0
3,5-Dinitrotoluene	Lin1		0.6065		93.3	100	-6.7	30.0
2-Nitrotoluene	Lin1		0.5286		98.5	99.1	-0.6	20.0
4-Nitrotoluene	Lin1		0.4529		95.1	99.5	-4.4	20.0
3-Nitrotoluene	Lin1		0.2958		99.8	98.8	1.0	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.24		92.5	100	-7.5	30.0
Nitrobenzene-d5	Lin1		1.201		94.1	100	-5.9	20.0

FORM VII 8321B

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94725/85 Calibration Date: 11/04/2011 06:55

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21834.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		1.981		88.4	100	-11.6	20.0
RDX	Lin1		0.996		103	98.7	4.6	20.0
1,3,5-Trinitrobenzene	Lin1		1.129		95.2	100	-4.9	20.0
Tetryl	Lin1		1.475		106	99.4	6.5	20.0
1,3-Dinitrobenzene	Lin1		1.105		99.6	101	-1.8	20.0
Nitroglycerin	Lin1		6.801		101	100	1.2	30.0
2,4,6-Trinitrotoluene	Lin1		4.726		95.5	100	-4.6	20.0
Nitrobenzene	Lin1		0.9837		96.7	99.9	-3.2	20.0
3,4-Dinitrotoluene	Lin1		2.207		95.8	100	-4.2	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.234		102	98.7	3.7	20.0
2,3-Dinitrotoluene	Lin1		3.302		109	100	9.0	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.454		99.2	100	-0.9	20.0
2,6-Dinitrotoluene	Lin1		2.589		97.4	100	-2.7	20.0
2,4-Dinitrotoluene	Lin1		1.156		90.9	100	-9.4	20.0
PETN	Lin1		2.356		120	99.8	20.4	30.0
3,5-Dinitrotoluene	Lin1		0.6065		93.3	100	-6.7	30.0
2-Nitrotoluene	Lin1		0.5286		98.5	99.1	-0.6	20.0
4-Nitrotoluene	Lin1		0.4529		95.1	99.5	-4.4	20.0
3-Nitrotoluene	Lin1		0.2958		99.8	98.8	1.0	20.0
2,4,6-Trinitro-3-xylene	Lin1		10.24		92.5	100	-7.5	30.0
Nitrobenzene-d5	Lin1		1.201		94.1	100	-5.9	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21834.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	04-Nov-2011 06:55:39	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/03/11EX5 CCV 100 ug/L 280-0002711-085		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	94612	Lims Sample ID:	85
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:36	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	501548	88.4			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		632943	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2259204	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	888683	103.2			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	642789	95.2			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	833574	105.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1471021	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	637013	99.6			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	3866698	101.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	2689496	95.5			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	683097	94.1			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.125	558758	96.7			
13 3,4-Dinitrotoluene										
3	182.0	5.651	5.651	0.000	0.788	3975598	95.8			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.849	2192672	102.4			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.425	0.000	0.896	5944229	109.0			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.655	6.655	0.000	0.928	2620350	99.2			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.949	4665895	97.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.171	7.171	0.000		4501154	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.232	7.232	0.000	1.009	2088350	90.9			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	4233380	120.2			
21 3,5-Dinitrotoluene										
3	182.0	7.808	7.808	0.000	1.089	1092049	93.3			
22 o-Nitrotoluene										
4	137.0	8.193	8.193	0.000	1.000	943209	98.5			
23 p-Nitrotoluene										
4	137.0	8.740	8.740	0.000	1.000	811422	95.1			
24 m-Nitrotoluene										
4	137.0	9.408	9.408	0.000	1.000	526212	99.8			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.258	10.258	0.000	1.000	5824607	92.5			

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21834.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	04-Nov-2011 06:55:39	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/03/11EX5 CCV 100 ug/L 280-0002711-085		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	94725	Lims Sample ID:	85
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:37:36	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

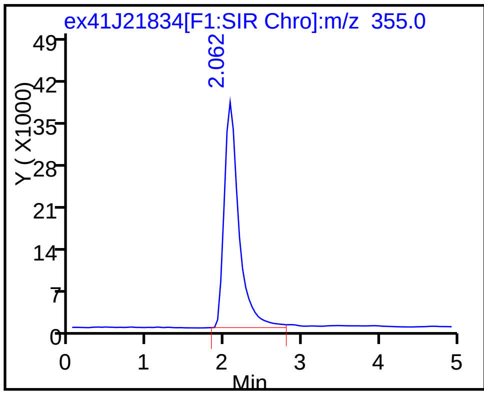
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	501548	88.4			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		632943	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2259204	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	888683	103.2			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	642789	95.2			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	833574	105.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1471021	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	637013	99.6			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	3866698	101.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	2689496	95.5			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	683097	94.1			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.125	558758	96.7			
13 3,4-Dinitrotoluene										
3	182.0	5.651	5.651	0.000	0.788	3975598	95.8			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.849	2192672	102.4			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.425	0.000	0.896	5944229	109.0			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.655	6.655	0.000	0.928	2620350	99.2			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.949	4665895	97.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.171	7.171	0.000		4501154	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.232	7.232	0.000	1.009	2088350	90.9			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	4233380	120.2			
21 3,5-Dinitrotoluene										
3	182.0	7.808	7.808	0.000	1.089	1092049	93.3			
22 o-Nitrotoluene										
4	137.0	8.193	8.193	0.000	1.000	943209	98.5			
23 p-Nitrotoluene										
4	137.0	8.740	8.740	0.000	1.000	811422	95.1			
24 m-Nitrotoluene										
4	137.0	9.408	9.408	0.000	1.000	526212	99.8			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.258	10.258	0.000	1.000	5824607	92.5			

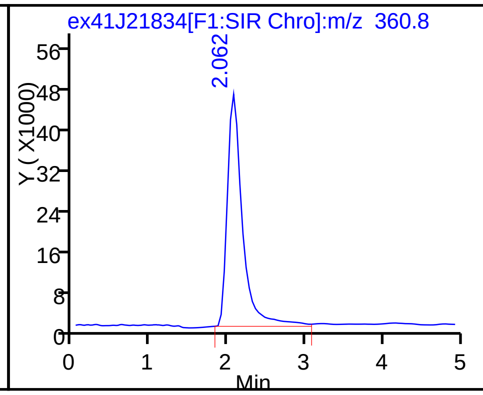
Report Date: 04-Nov-2011 07:37:36 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21834.d

Injection Date:	04-Nov-2011 06:55:39	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94612	Lims Sample ID:	85
Operator ID:		Injection Vol:	40.00 ul

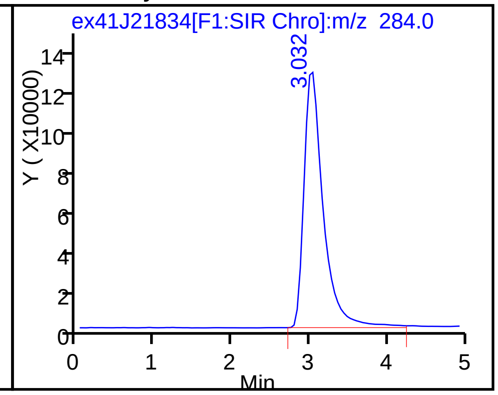
2 HMX



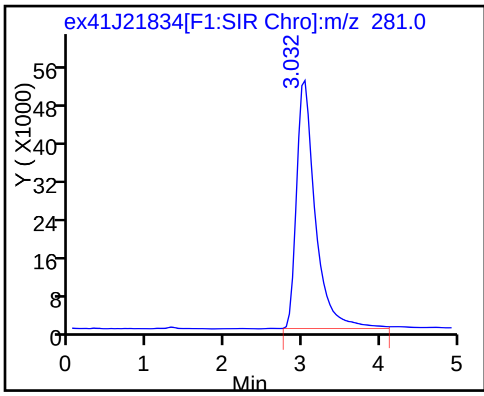
* 1 HMX-13C4



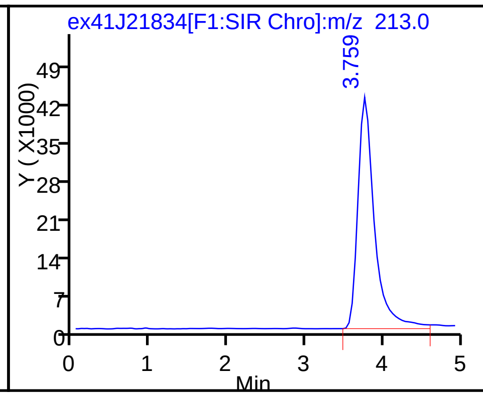
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



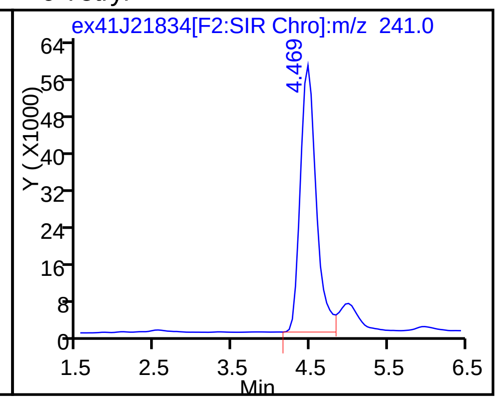
4 RDX



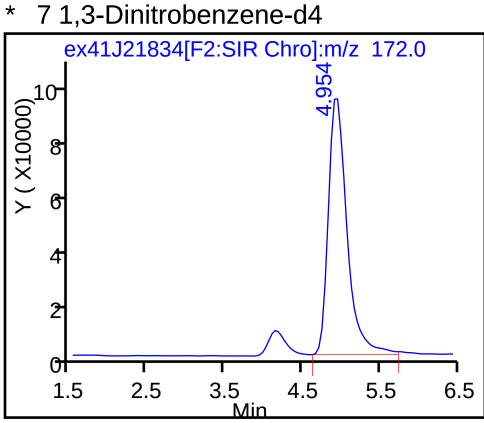
5 1,3,5-Trinitrobenzene



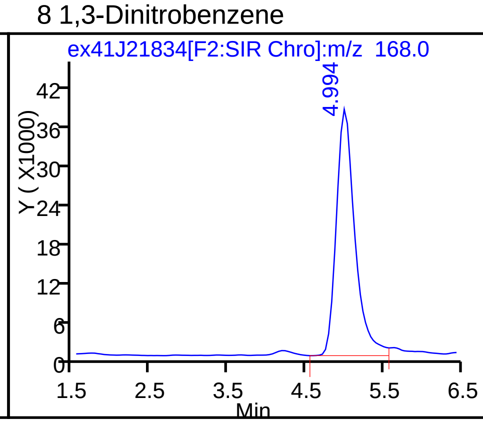
6 Tetryl



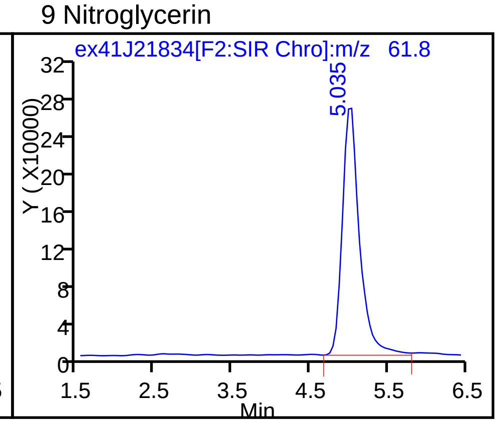
* 7 1,3-Dinitrobenzene-d4



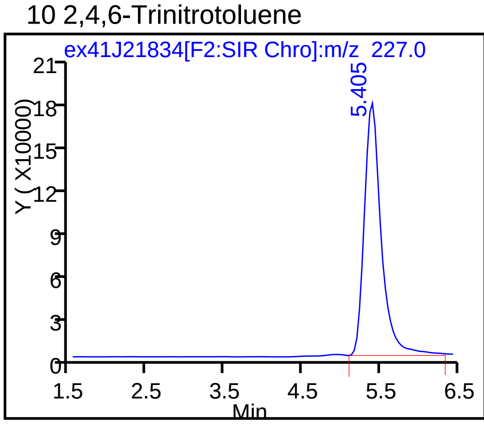
8 1,3-Dinitrobenzene



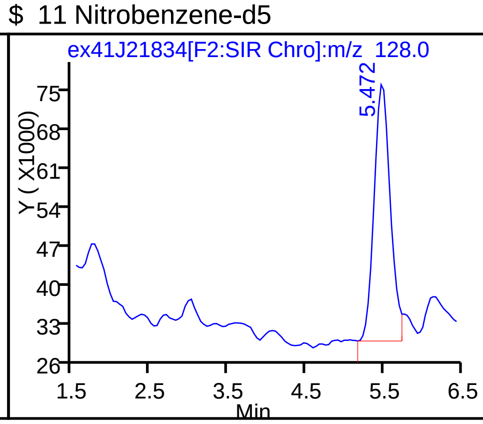
9 Nitroglycerin



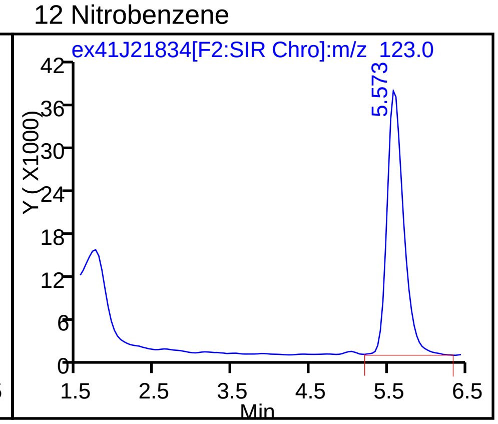
10 2,4,6-Trinitrotoluene



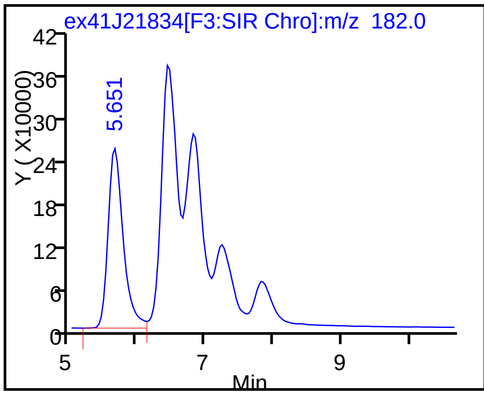
$ 11 Nitrobenzene-d5



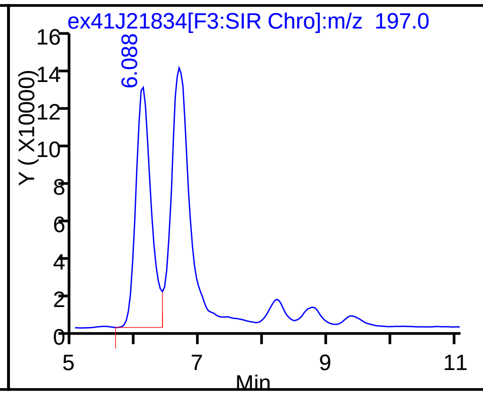
12 Nitrobenzene



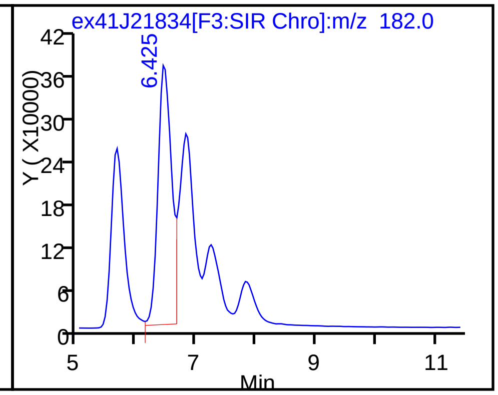
13 3,4-Dinitrotoluene



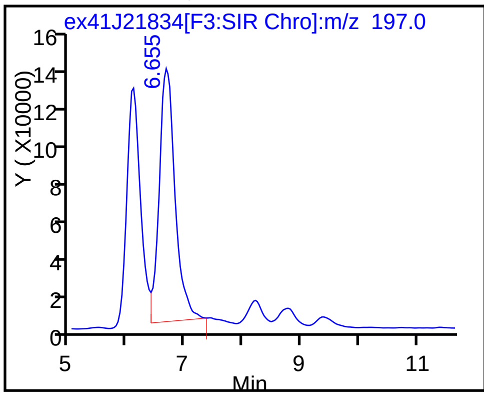
14 4-Amino-2,6-dinitrotoluene



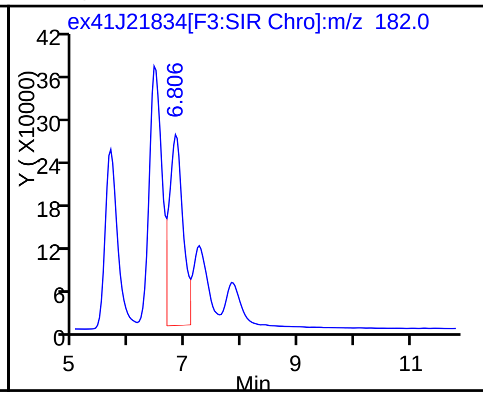
15 2,3-Dinitrotoluene



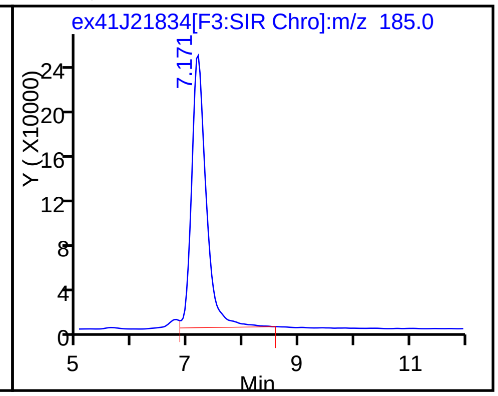
16 2-Amino-4,6-dinitrotoluene



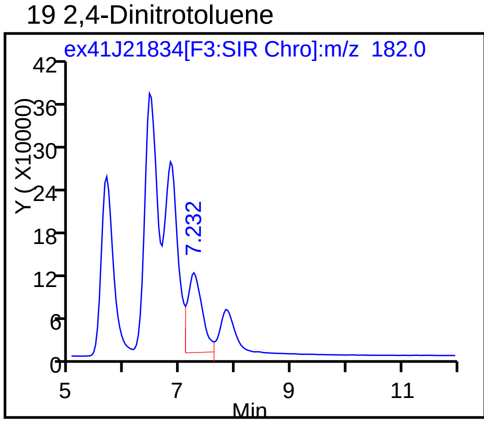
17 2,6-Dinitrotoluene



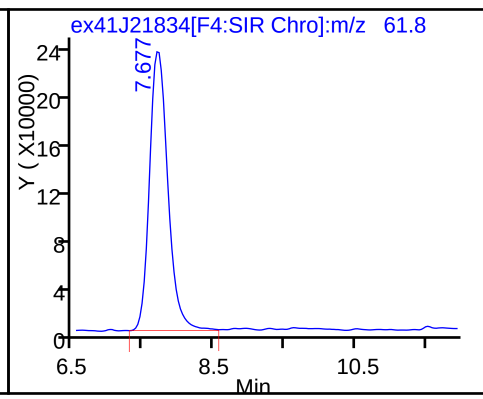
* 18 2,4-dinitrotoluene-d3



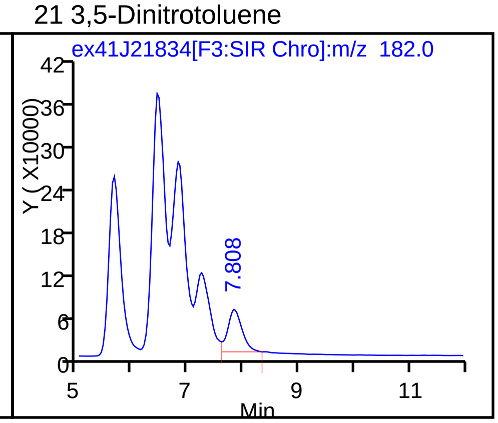
19 2,4-Dinitrotoluene



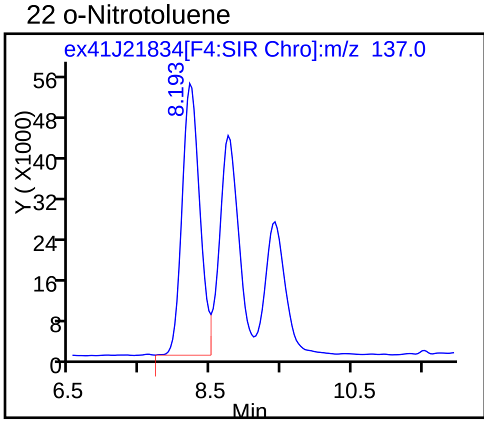
20 PETN



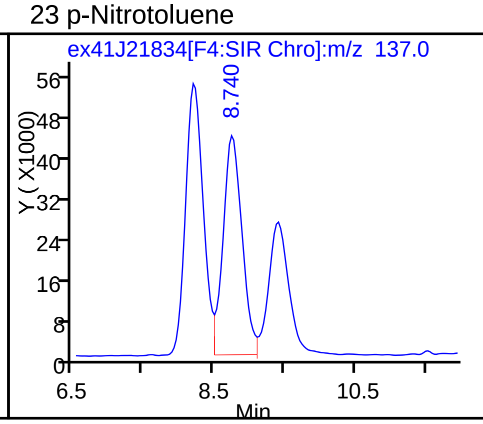
21 3,5-Dinitrotoluene



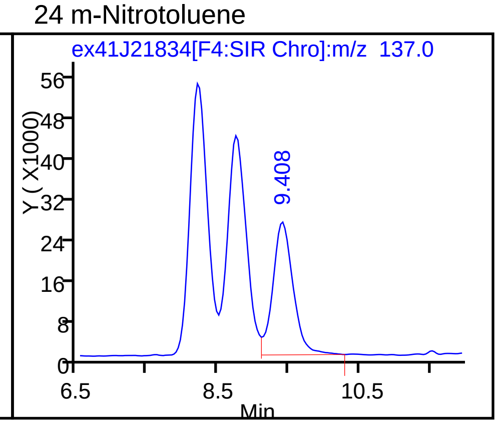
22 o-Nitrotoluene



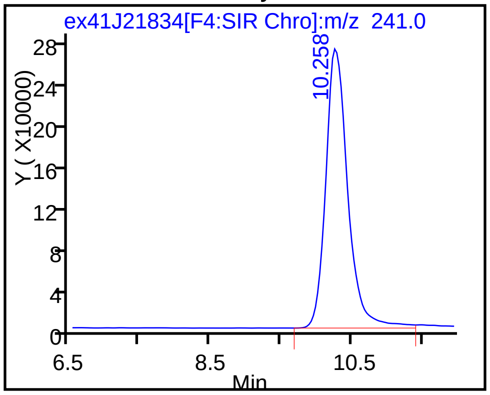
23 p-Nitrotoluene



24 m-Nitrotoluene



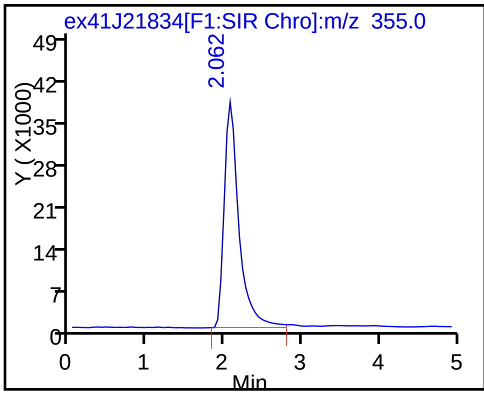
25 2,4,6-Trinitro-3-xylene



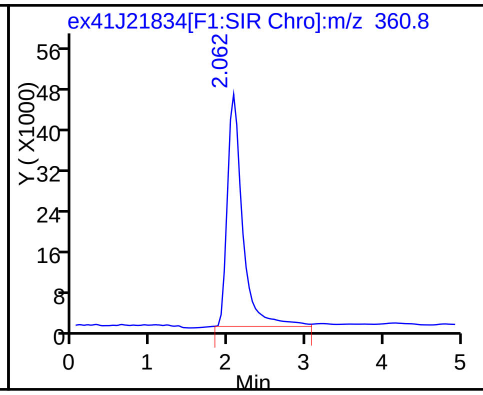
Report Date: 04-Nov-2011 07:37:36 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21834.d

Injection Date:	04-Nov-2011 06:55:39	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94725	Lims Sample ID:	85
Operator ID:		Injection Vol:	40.00 ul

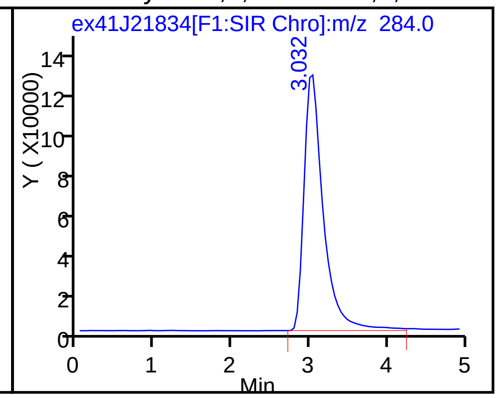
2 HMX



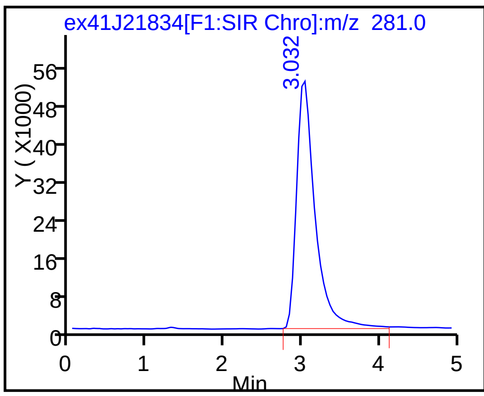
* 1 HMX-13C4



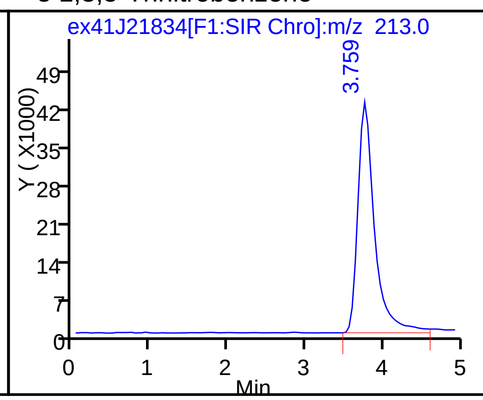
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



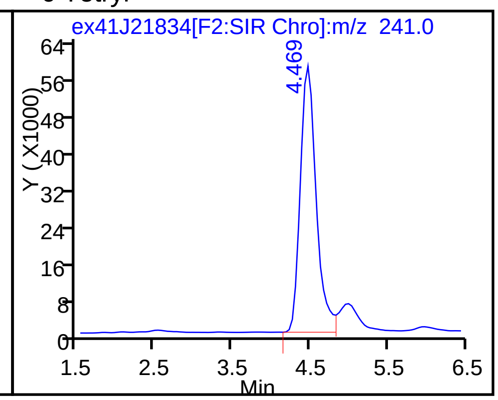
4 RDX



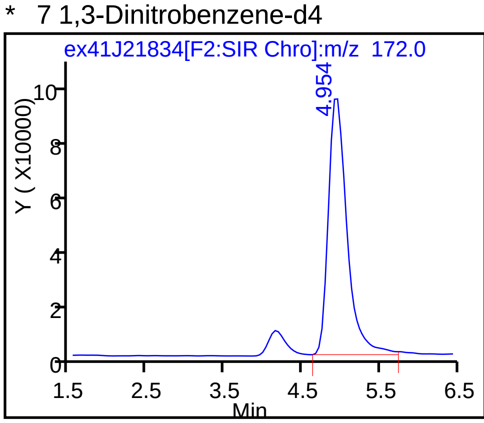
5 1,3,5-Trinitrobenzene



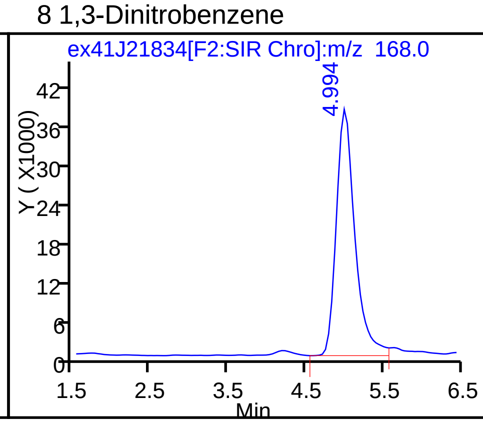
6 Tetryl



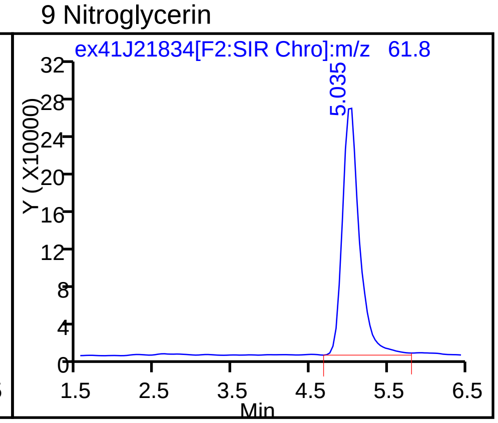
* 7 1,3-Dinitrobenzene-d4



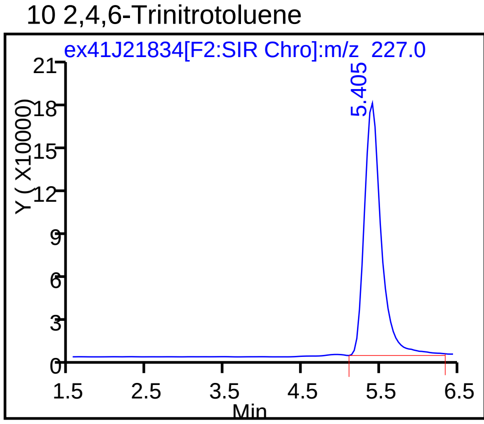
8 1,3-Dinitrobenzene



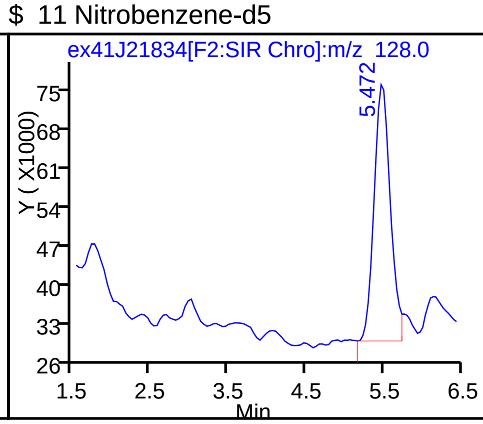
9 Nitroglycerin



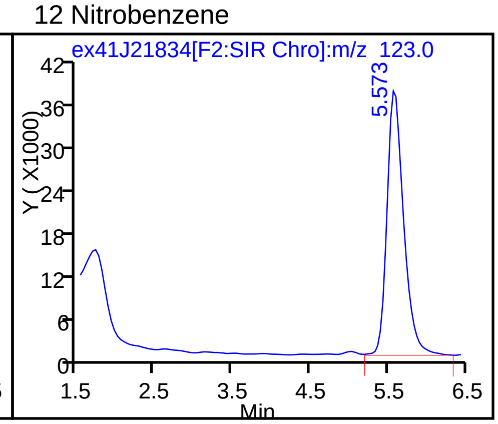
10 2,4,6-Trinitrotoluene



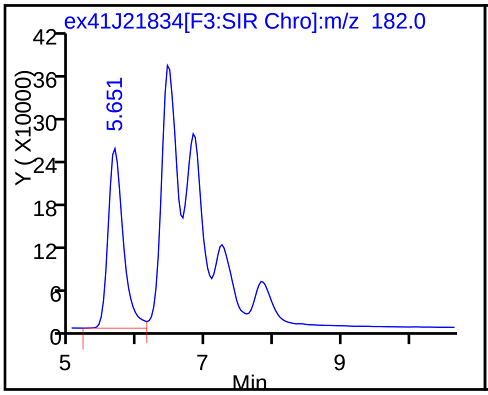
$ 11 Nitrobenzene-d5



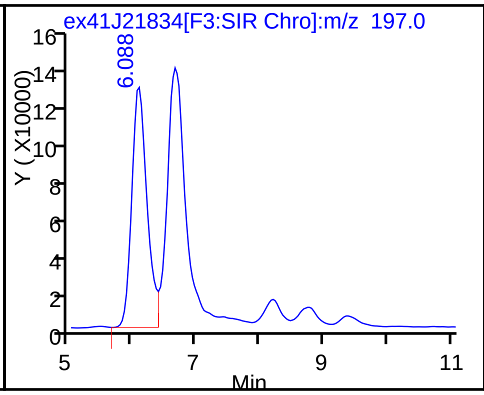
12 Nitrobenzene



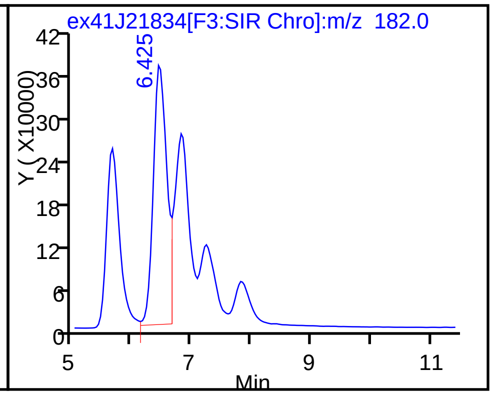
13 3,4-Dinitrotoluene



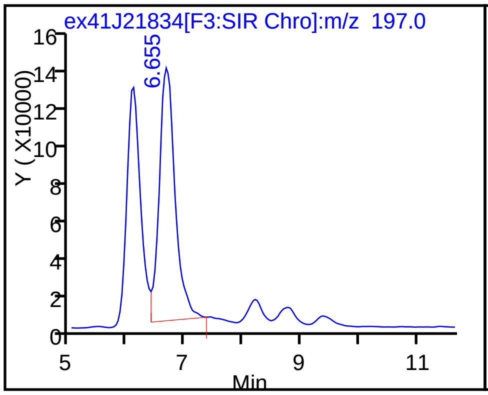
14 4-Amino-2,6-dinitrotoluene



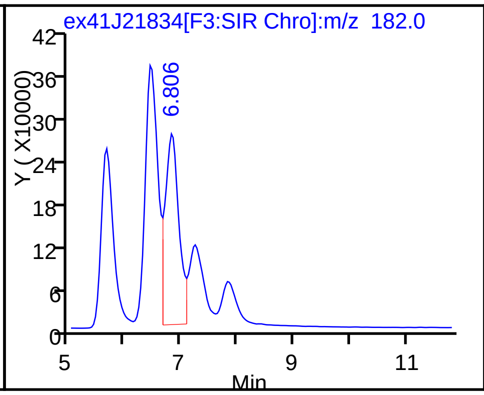
15 2,3-Dinitrotoluene



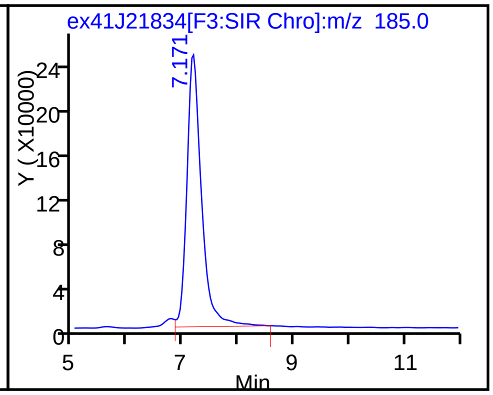
16 2-Amino-4,6-dinitrotoluene



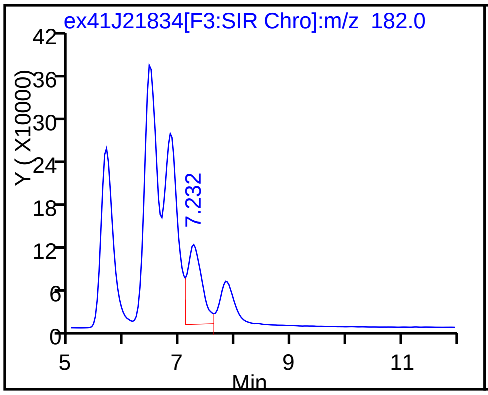
17 2,6-Dinitrotoluene



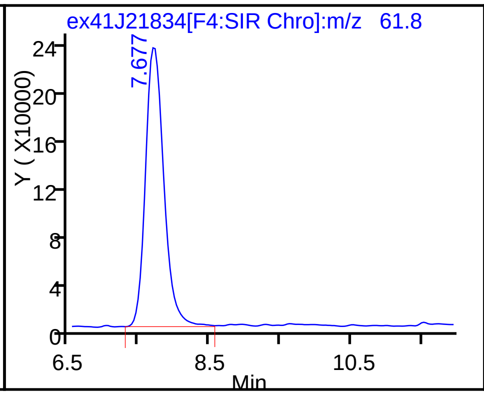
* 18 2,4-dinitrotoluene-d3



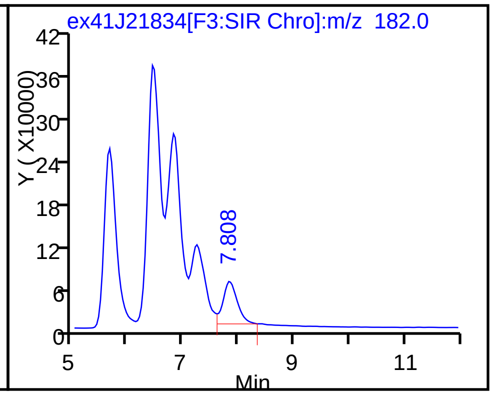
19 2,4-Dinitrotoluene



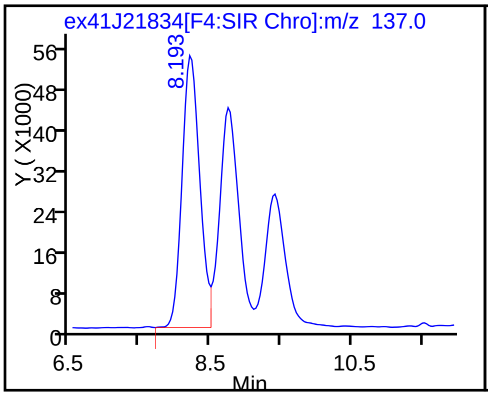
20 PETN



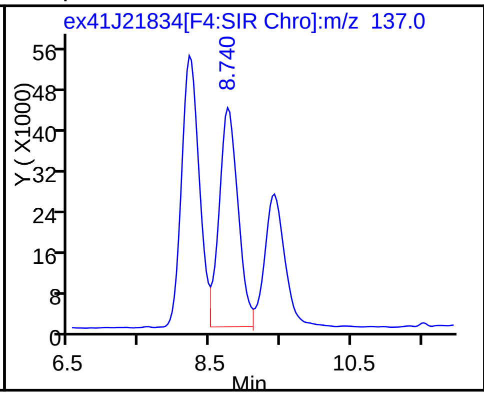
21 3,5-Dinitrotoluene



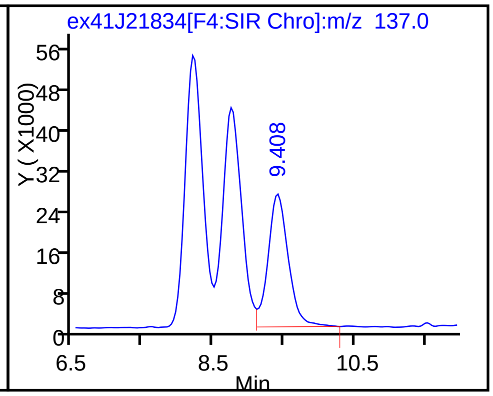
22 o-Nitrotoluene



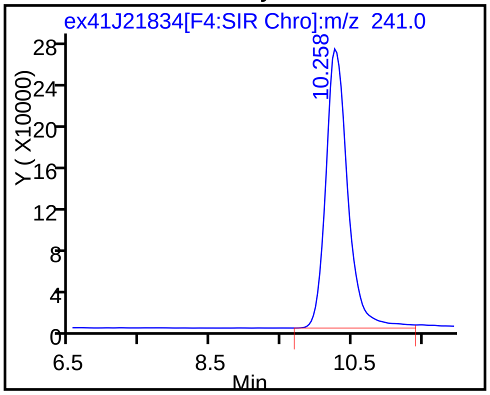
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: CCV 280-94725/91 Calibration Date: 11/04/2011 08:18

Instrument ID: LC_LCMS4 Calib Start Date: 10/21/2011 09:28

GC Column: IonPac ID: 2.00(mm) Calib End Date: 10/21/2011 10:50

Lab File ID: ex41J21840.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.155		48.5	50.0	-3.0	20.0
RDX	Lin1		0.9524		49.2	49.4	-0.3	20.0
1,3,5-Trinitrobenzene	Lin1		1.130		48.8	50.1	-2.5	20.0
Tetryl	Lin1		1.477		54.0	49.7	8.7	20.0
1,3-Dinitrobenzene	Lin1		1.087		49.2	50.7	-3.0	20.0
Nitroglycerin	Lin1		7.296		54.8	50.0	9.6	30.0
2,4,6-Trinitrotoluene	Lin1		5.161		52.4	50.1	4.7	20.0
Nitrobenzene	Lin1		0.9611		47.3	50.0	-5.3	20.0
3,4-Dinitrotoluene	Lin1		2.240		48.5	50.0	-3.0	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.185		49.3	49.4	-0.1	20.0
2,3-Dinitrotoluene	Lin1		2.856		47.0	50.0	-6.0	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.522		51.8	50.1	3.5	20.0
2,6-Dinitrotoluene	Lin1		2.733		51.4	50.1	2.7	20.0
2,4-Dinitrotoluene	Lin1		1.315		51.7	50.2	3.1	20.0
PETN	Lin1		2.351		59.0	49.9	18.2	30.0
3,5-Dinitrotoluene	Lin1		0.6351		49.5	50.0	-1.0	30.0
2-Nitrotoluene	Lin1		0.5311		49.4	49.6	-0.3	20.0
4-Nitrotoluene	Lin1		0.4572		48.1	49.8	-3.3	20.0
3-Nitrotoluene	Lin1		0.2755		46.4	49.4	-6.1	20.0
2,4,6-Trinitro-3-xylene	Lin1		12.09		54.6	50.0	9.2	30.0
Nitrobenzene-d5	Lin1		1.182		46.0	50.0	-8.0	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21840.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	04-Nov-2011 08:18:36	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/03/11EX4 CCV 50 ug/L 280-0002711-091		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	94725	Lims Sample ID:	91
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 08:41:27	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 04-Nov-2011 08:41:11

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	291070	48.5			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		675252	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2240545	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	421208	49.2			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	313154	48.8			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	406447	54.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1432151	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	305101	49.2			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.008	2019247	54.8			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.084	1429809	52.4			
$ 11 Nitrobenzene-d5										M
2	128.0	5.472	5.472	0.000	1.105	327293	46.0			M
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.125	265734	47.3			
13 3,4-Dinitrotoluene										
3	182.0	5.651	5.651	0.000	0.788	1995390	48.5			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.844	1041702	49.3			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.425	0.000	0.896	2542837	47.0			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.928	1356628	51.8			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.949	2435735	51.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.170	0.000		4451927	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.201	0.000	1.004	1173954	51.7			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	2089382	59.0			
21 3,5-Dinitrotoluene										
3	182.0	7.808	7.808	0.000	1.089	565494	49.5			
22 o-Nitrotoluene										
4	137.0	8.193	8.193	0.000	1.000	468597	49.4			
23 p-Nitrotoluene										
4	137.0	8.739	8.739	0.000	1.000	405073	48.1			
24 m-Nitrotoluene										
4	137.0	9.377	9.377	0.000	1.000	242344	46.4			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.258	10.258	0.000	1.000	3346308	54.6			

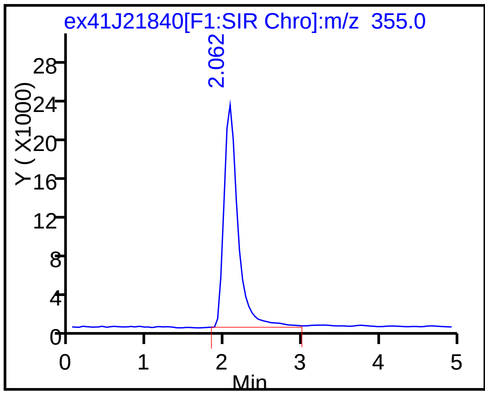
QC Flag Legend

Review Flags
M - Manually Integrated

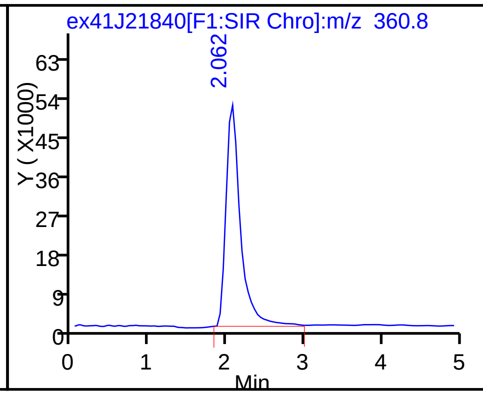
Report Date: 04-Nov-2011 08:41:27 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21840.d

Injection Date:	04-Nov-2011 08:18:36	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94725	Lims Sample ID:	91
Operator ID:		Injection Vol:	40.00 ul

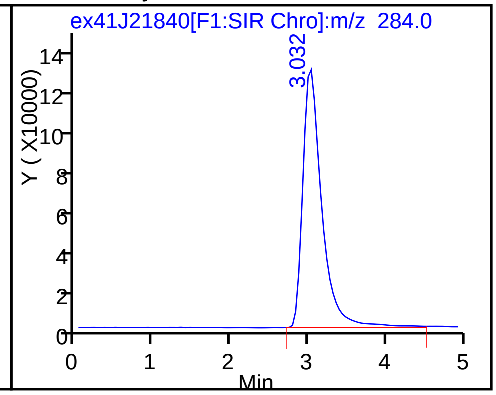
2 HMX



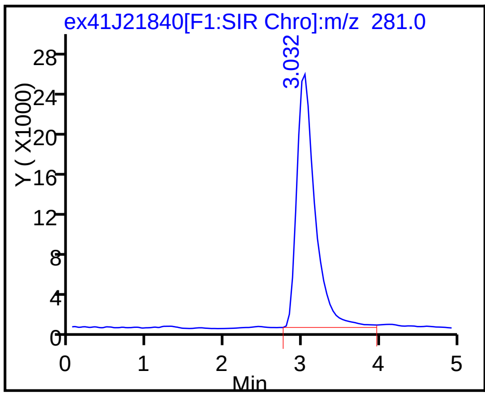
* 1 HMX-13C4



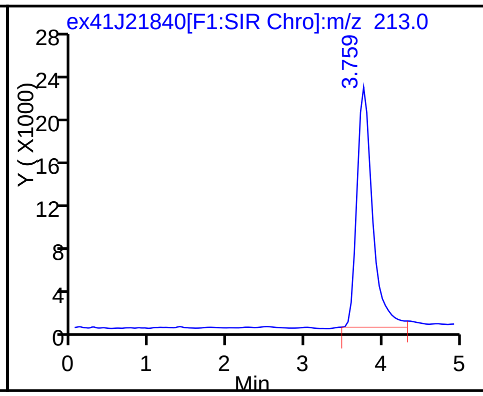
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



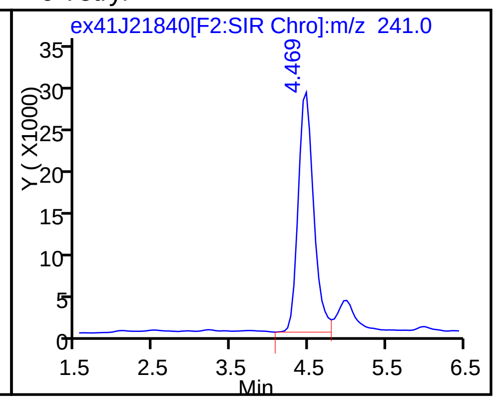
4 RDX



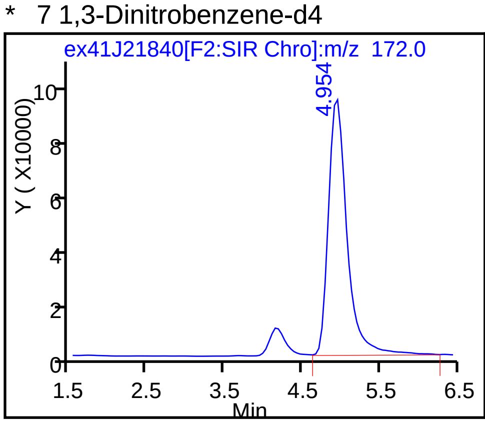
5 1,3,5-Trinitrobenzene



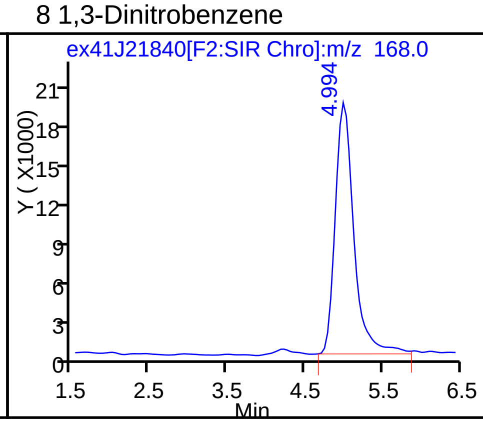
6 Tetryl



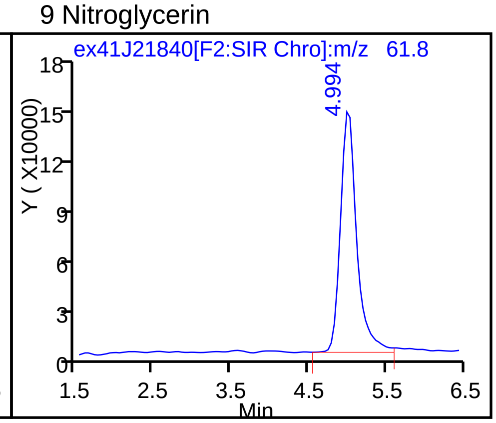
* 7 1,3-Dinitrobenzene-d4



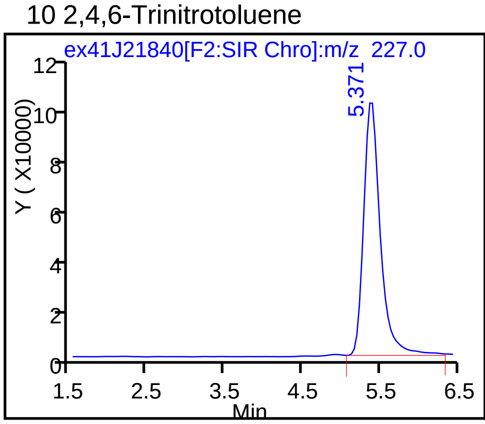
8 1,3-Dinitrobenzene



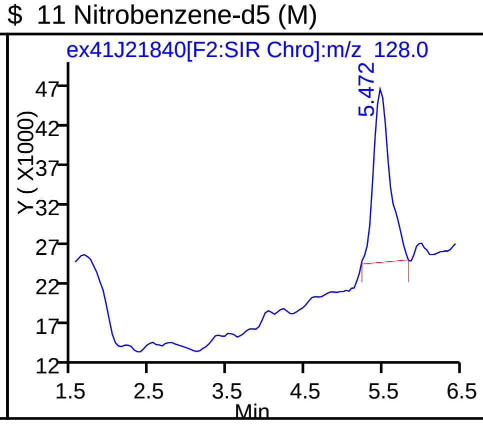
9 Nitroglycerin



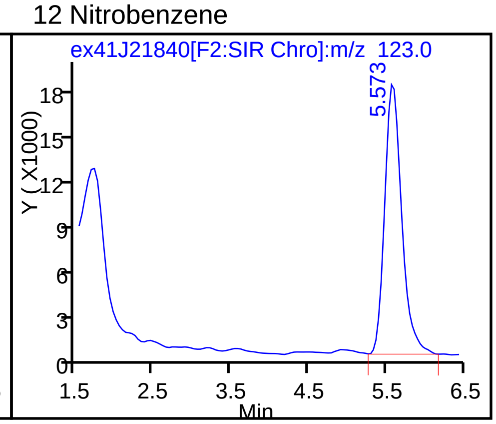
10 2,4,6-Trinitrotoluene



$ 11 Nitrobenzene-d5 (M)

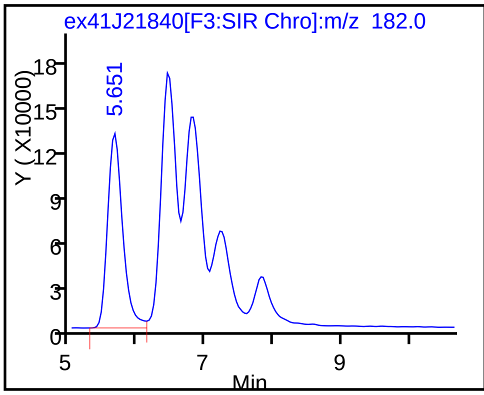


12 Nitrobenzene

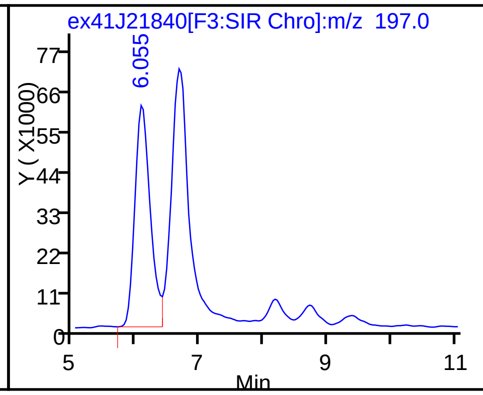


Report Date: 04-Nov-2011 08:41:27 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21840.d

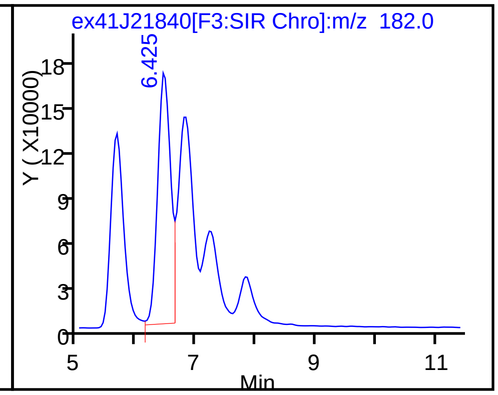
13 3,4-Dinitrotoluene



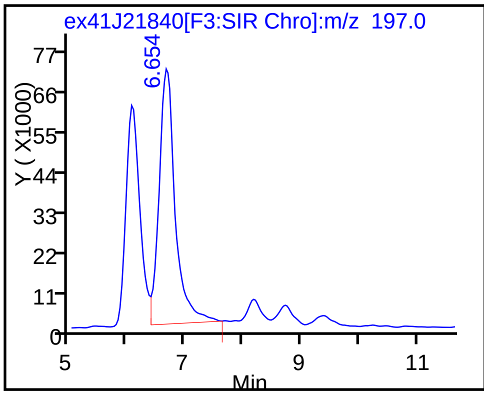
14 4-Amino-2,6-dinitrotoluene



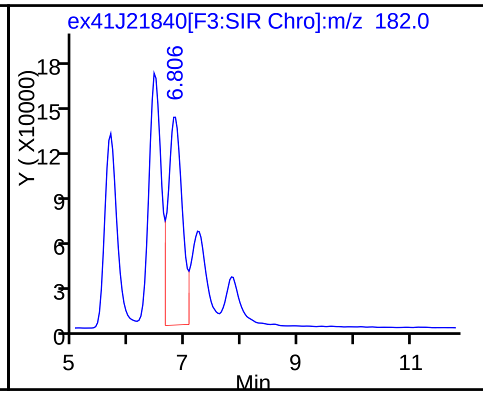
15 2,3-Dinitrotoluene



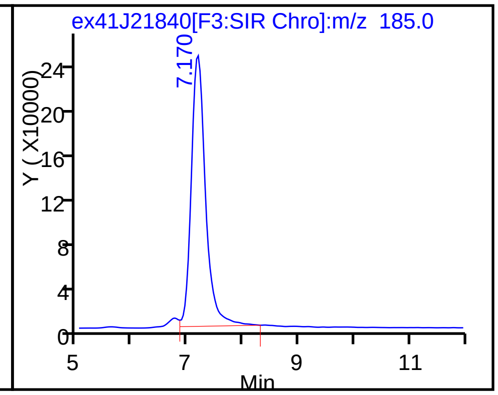
16 2-Amino-4,6-dinitrotoluene



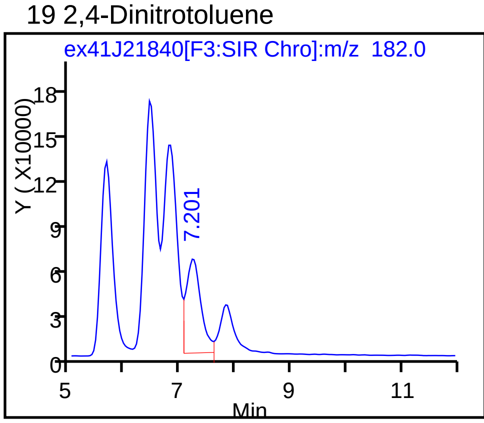
17 2,6-Dinitrotoluene



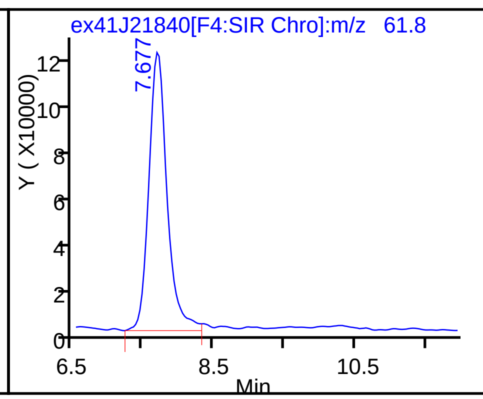
* 18 2,4-dinitrotoluene-d3



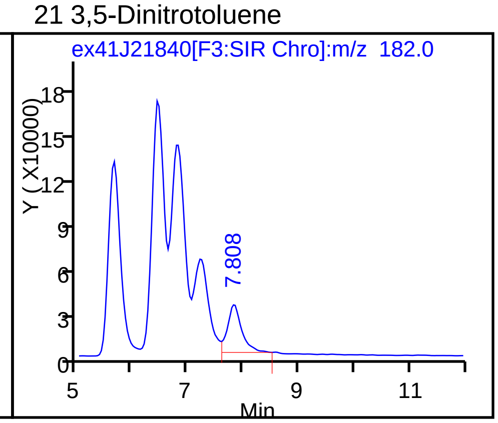
19 2,4-Dinitrotoluene



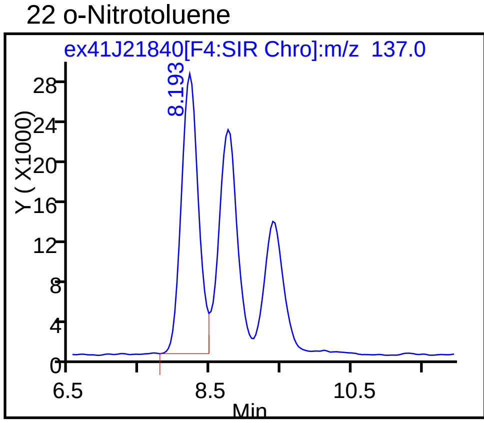
20 PETN



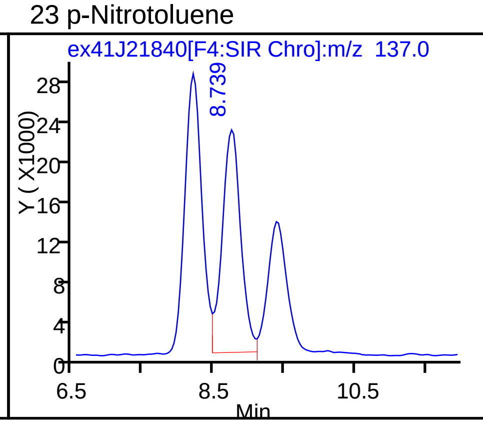
21 3,5-Dinitrotoluene



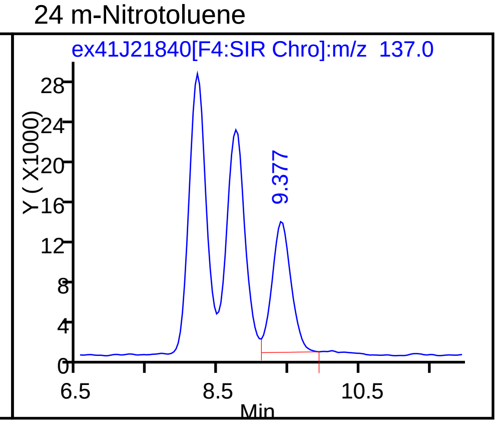
22 o-Nitrotoluene



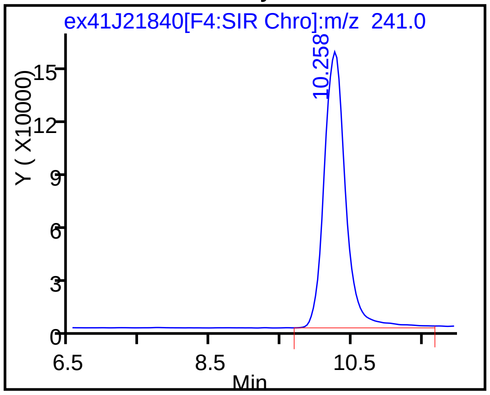
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



Report Date: 04-Nov-2011 08:41:28 Chrom Revision: 1.2 13-Jul-2011 10:43:06

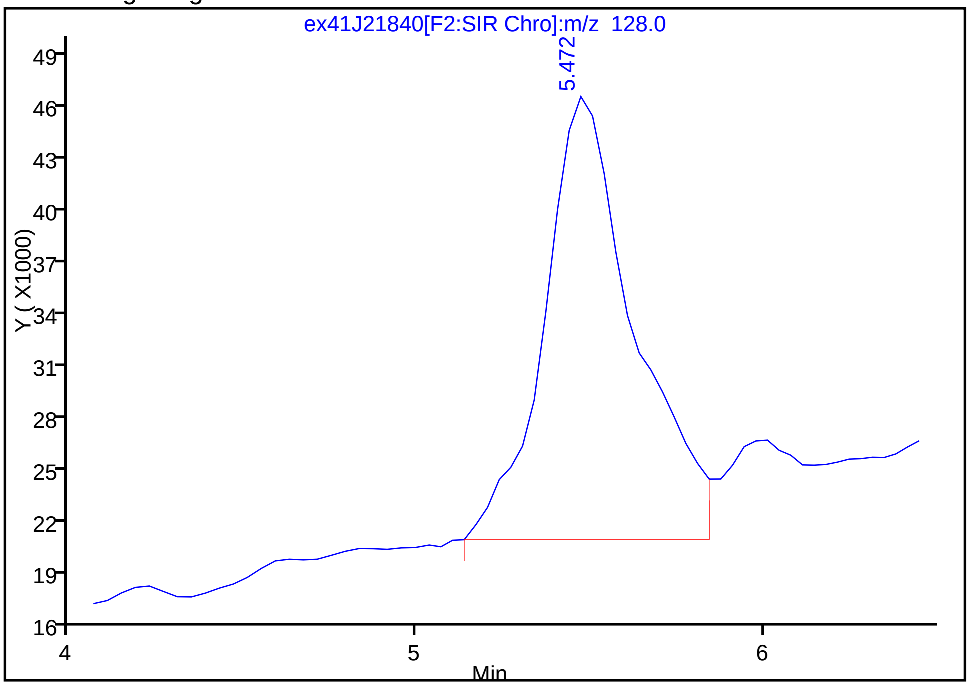
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21840.d		
Injection Date:	04-Nov-2011 08:18:36	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94725	Lims Sample ID:	91
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.47, Det: F2:SIR

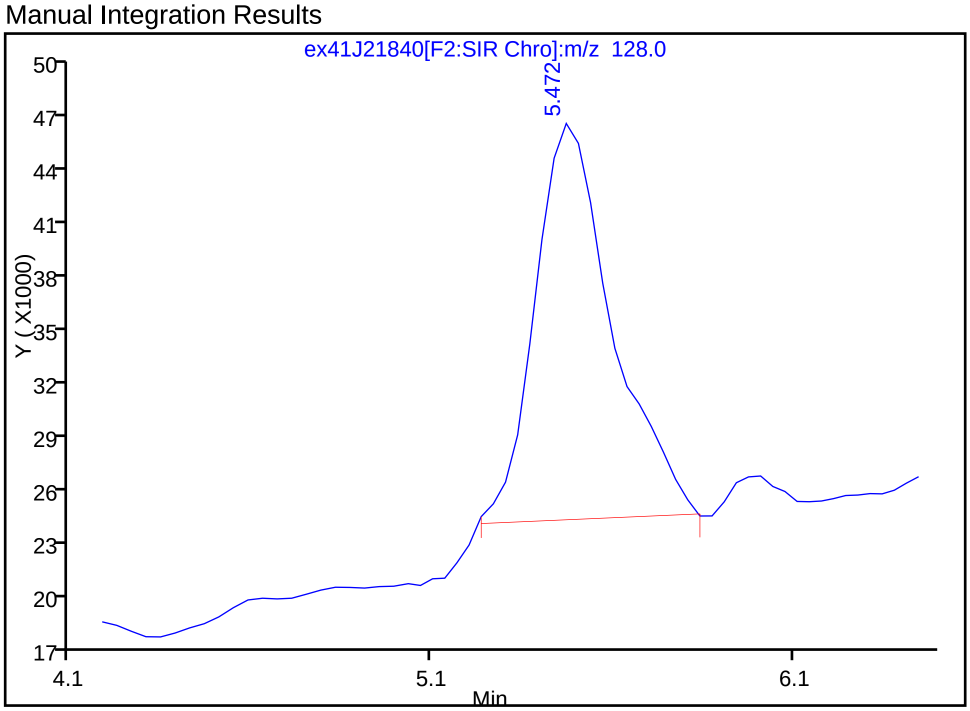
Processing Integration Results

RT: 5.47
Response: 459791
Amount: 64.877048



Manual Integration Results

RT: 5.47
Response: 327293
Amount: 46.016466



Reviewer: meyera, 04-Nov-2011 08:41:11

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-92995/1-A

Matrix: Solid Lab File ID: ex41J21751.d

Analysis Method: 8321B Date Collected:

Extraction Method: 8330B Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.46(g) Date Analyzed: 11/03/2011 12:02

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21751.d		
Lims ID:	MB 280-92995/1-A	Client ID:	
Inject. Date:	03-Nov-2011 12:02:30	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 280-92995/1-A 280-0002711-002		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	85
Lims Batch ID:	94610	Lims Sample ID:	2
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		632825	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	2.991	0.000		2109747	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1493432	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.954							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.337							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.114	542750	73.5			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							
15 2,3-Dinitrotoluene										1
3	182.0		6.391							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.594							
17	2,6-Dinitrotoluene									1
3	182.0		6.745							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.140	7.110	0.030		4251289	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.170							
20	PETN									1
4	61.8		7.616							
21	3,5-Dinitrotoluene									1
3	182.0		7.778							
22	o-Nitrotoluene									1
4	137.0		8.132							
23	p-Nitrotoluene									1
4	137.0		8.648							
24	m-Nitrotoluene									1
4	137.0		9.316							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.167							

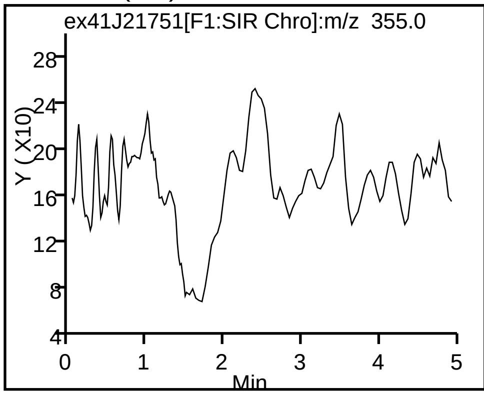
QC Flag Legend

Processing Flags
1 - Missing Peaks

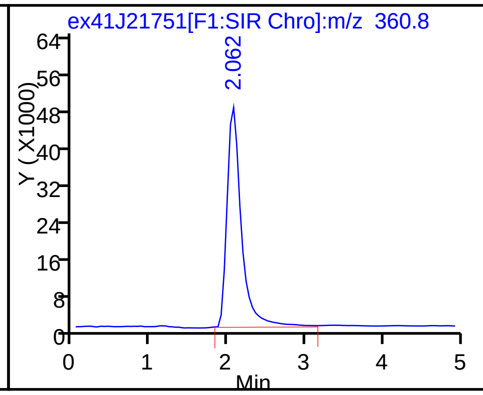
Report Date: 04-Nov-2011 06:46:28 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21751.d

Injection Date:	03-Nov-2011 12:02:30	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	2
Operator ID:		Injection Vol:	40.00 ul

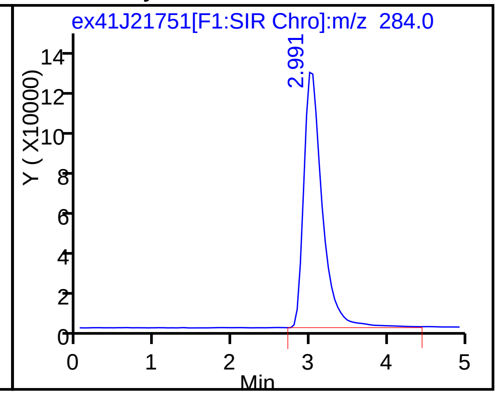
2 HMX (ND)



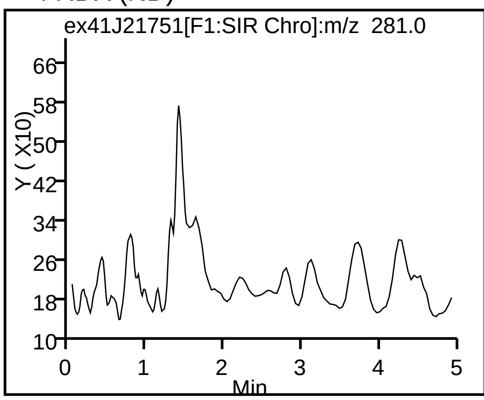
* 1 HMX-13C4



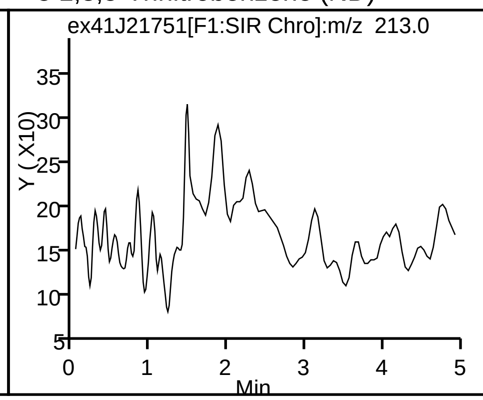
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



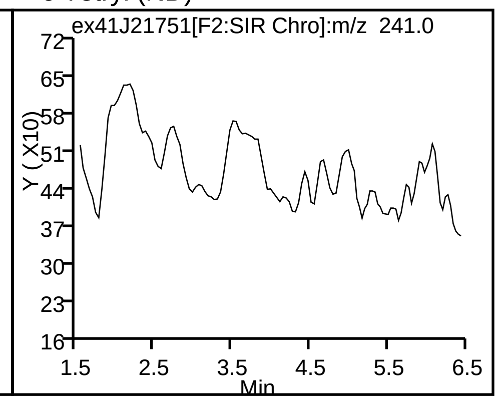
4 RDX (ND)



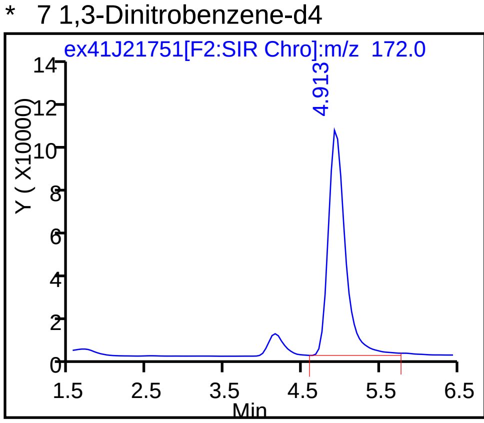
5 1,3,5-Trinitrobenzene (ND)



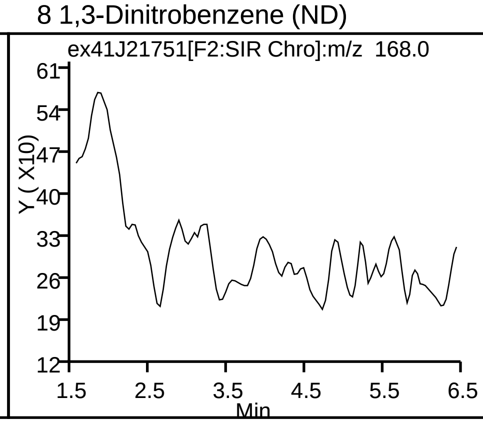
6 Tetryl (ND)



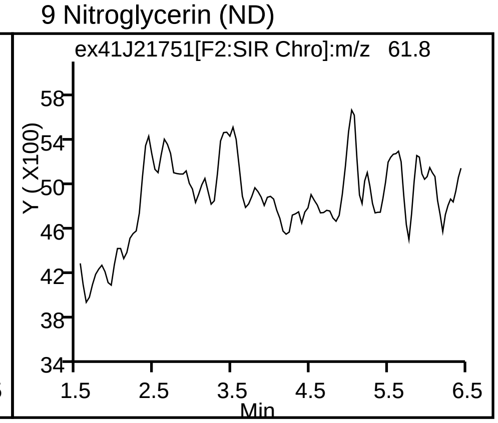
* 7 1,3-Dinitrobenzene-d4



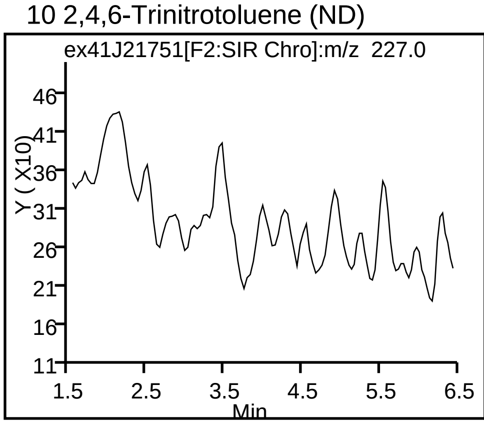
8 1,3-Dinitrobenzene (ND)



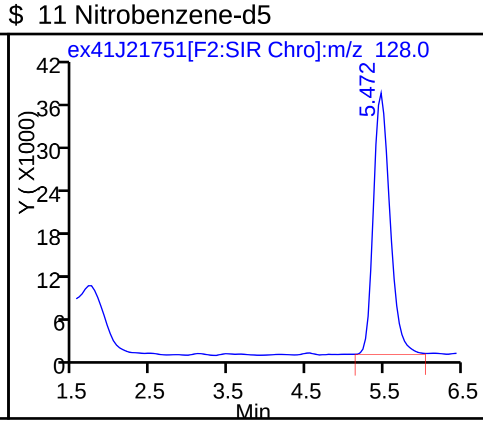
9 Nitroglycerin (ND)



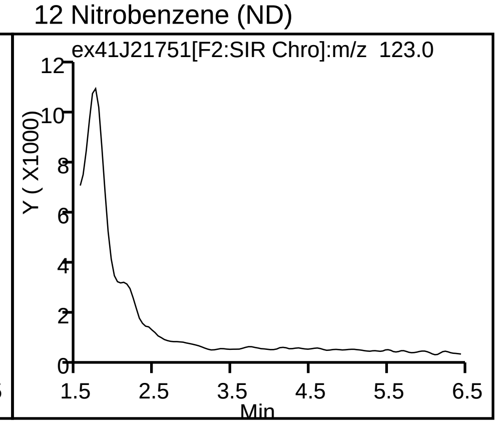
10 2,4,6-Trinitrotoluene (ND)



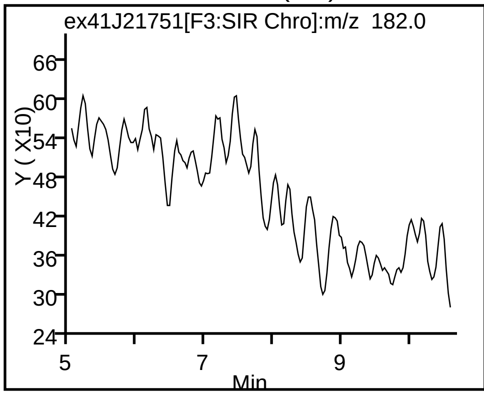
$ 11 Nitrobenzene-d5



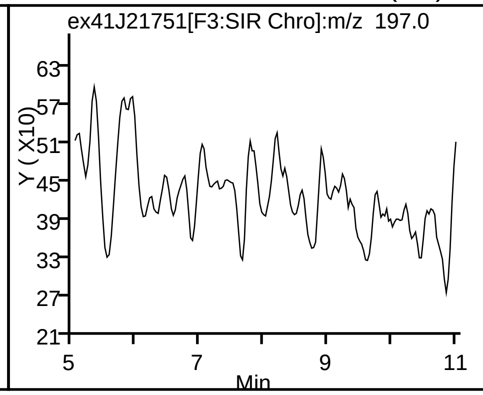
12 Nitrobenzene (ND)



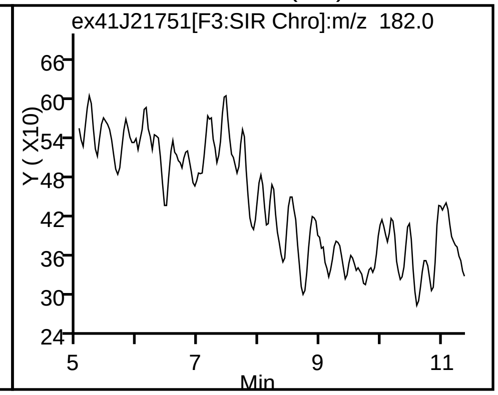
13 3,4-Dinitrotoluene (ND)



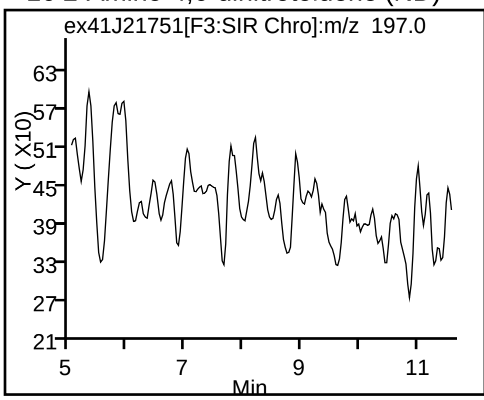
14 4-Amino-2,6-dinitrotoluene (ND)



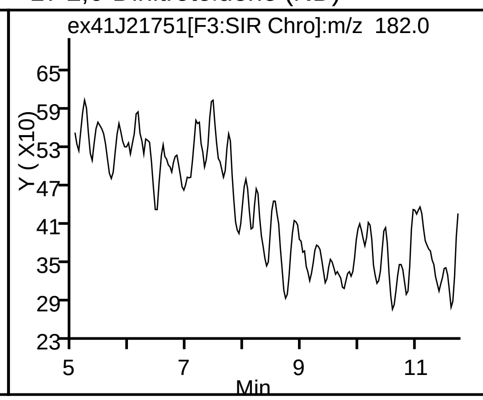
15 2,3-Dinitrotoluene (ND)



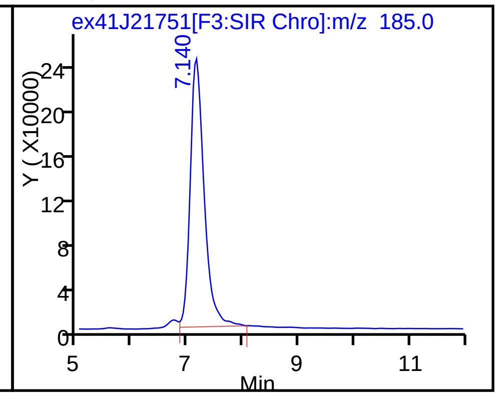
16 2-Amino-4,6-dinitrotoluene (ND)



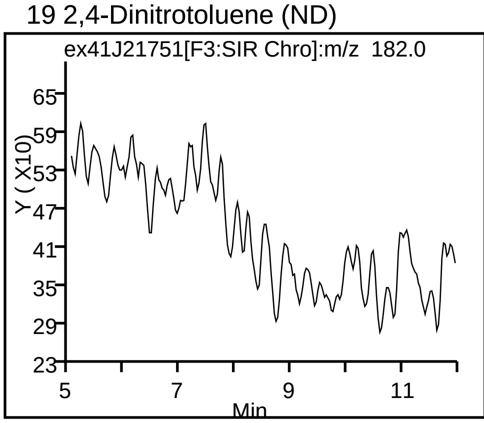
17 2,6-Dinitrotoluene (ND)



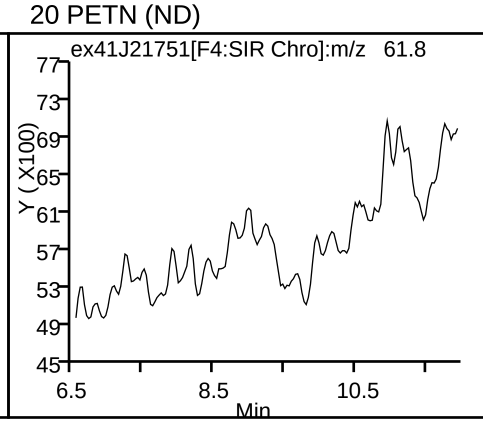
* 18 2,4-dinitrotoluene-d3



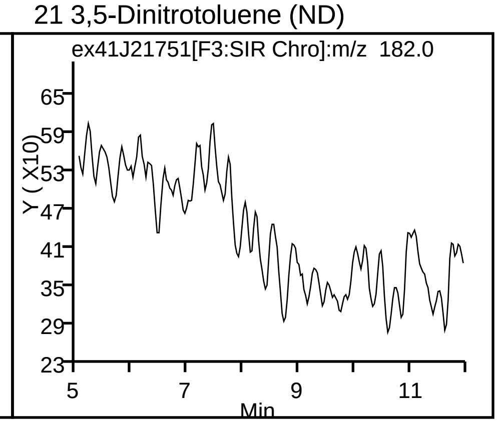
19 2,4-Dinitrotoluene (ND)



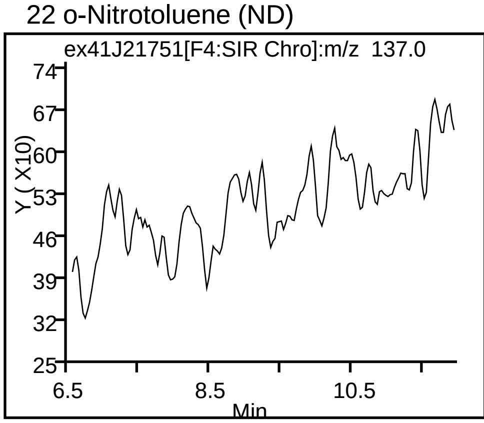
20 PETN (ND)



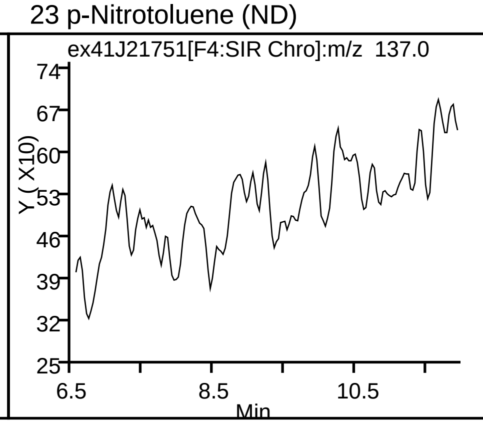
21 3,5-Dinitrotoluene (ND)



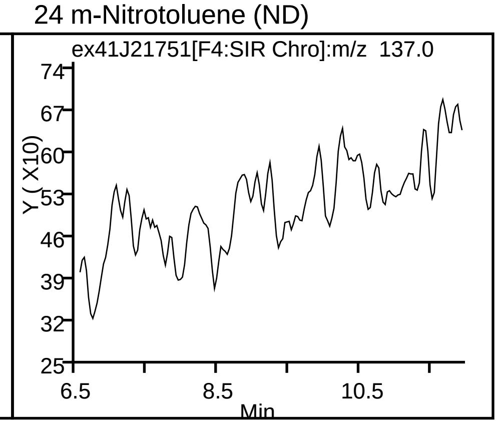
22 o-Nitrotoluene (ND)



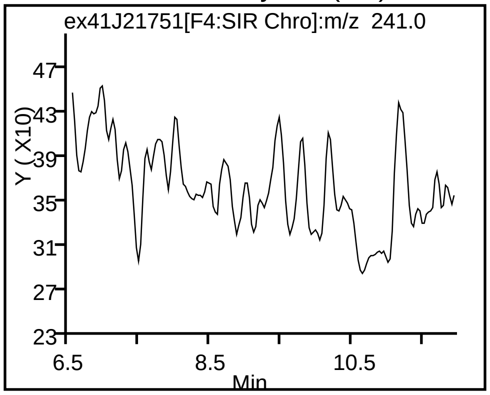
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-93019/1-A

Matrix: Solid | Lab File ID: ex41J21778.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 8330B | Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.56(g) | Date Analyzed: 11/03/2011 18:12

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.0099
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	75		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21778.d		
Lims ID:	MB 280-93019/1-A	Client ID:	
Inject. Date:	03-Nov-2011 18:12:16	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 280-93019/1-A 280-0002711-029		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	109
Lims Batch ID:	94611	Lims Sample ID:	29
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:50	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		757015	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2513509	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.954	-0.041		1730759	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	632708	74.0			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.459							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4930387	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

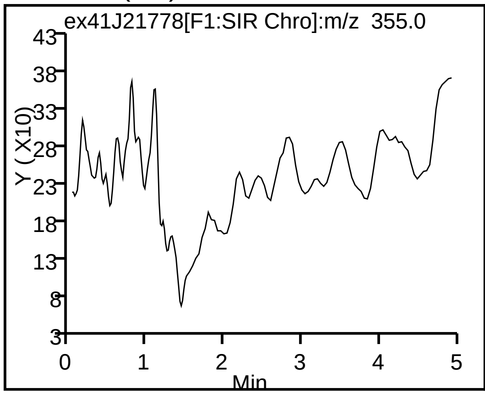
QC Flag Legend

Processing Flags
1 - Missing Peaks

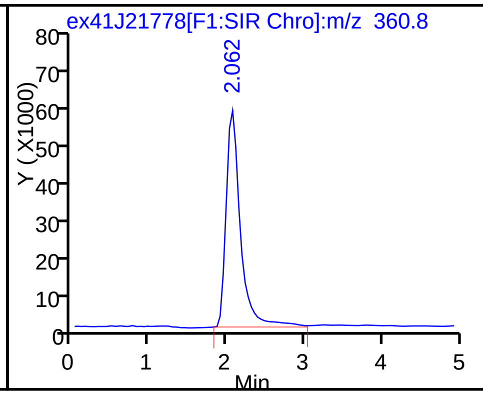
Report Date: 04-Nov-2011 06:46:52 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21778.d

Injection Date:	03-Nov-2011 18:12:16	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	29
Operator ID:		Injection Vol:	40.00 ul

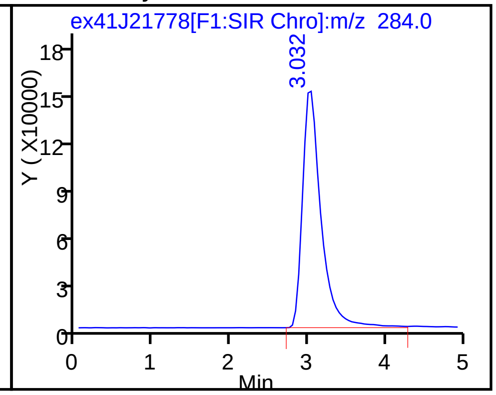
2 HMX (ND)



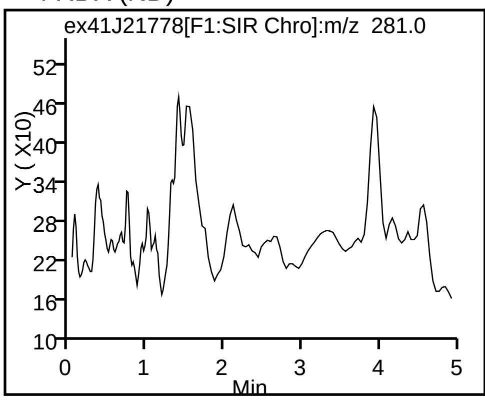
* 1 HMX-13C4



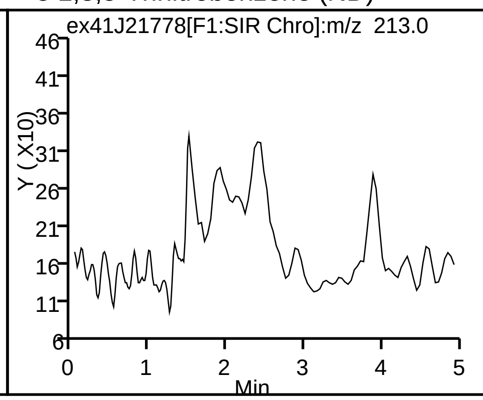
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



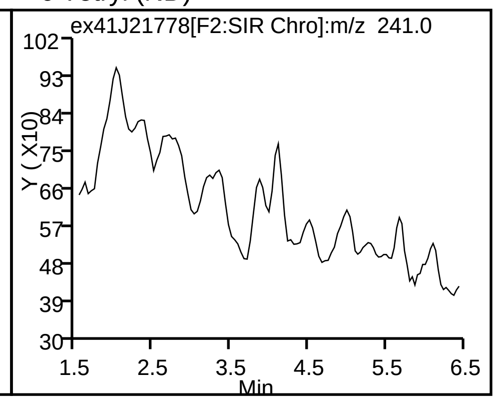
4 RDX (ND)



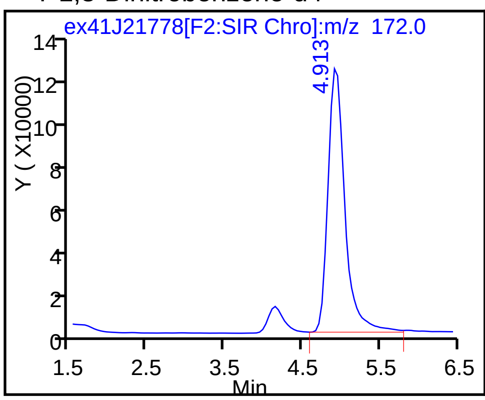
5 1,3,5-Trinitrobenzene (ND)



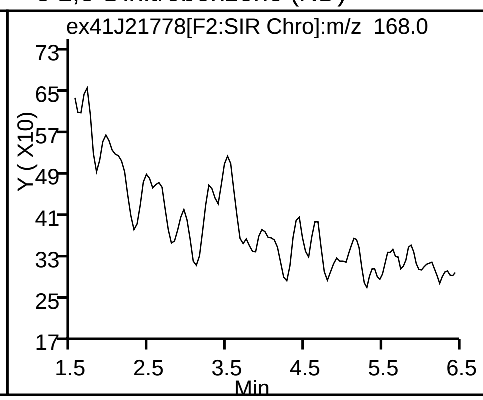
6 Tetryl (ND)



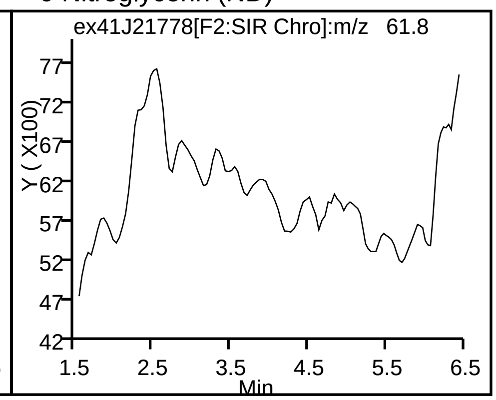
* 7 1,3-Dinitrobenzene-d4



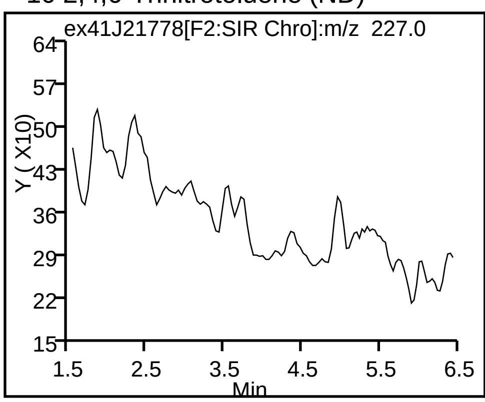
8 1,3-Dinitrobenzene (ND)



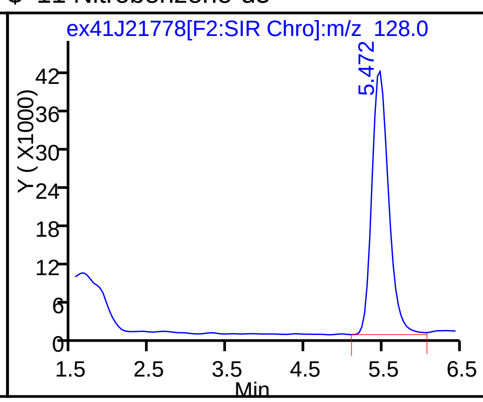
9 Nitroglycerin (ND)



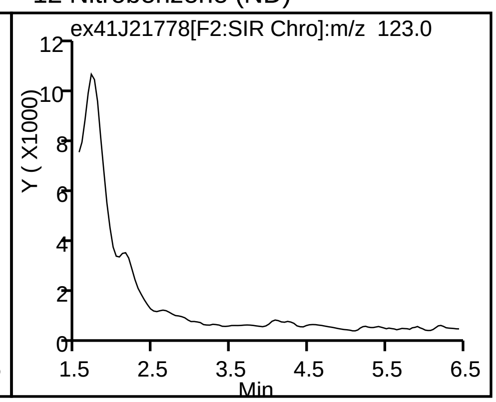
10 2,4,6-Trinitrotoluene (ND)



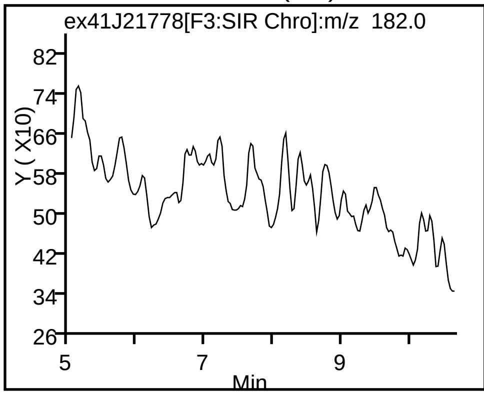
$ 11 Nitrobenzene-d5



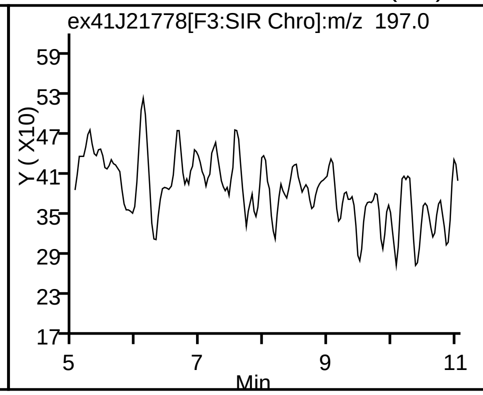
12 Nitrobenzene (ND)



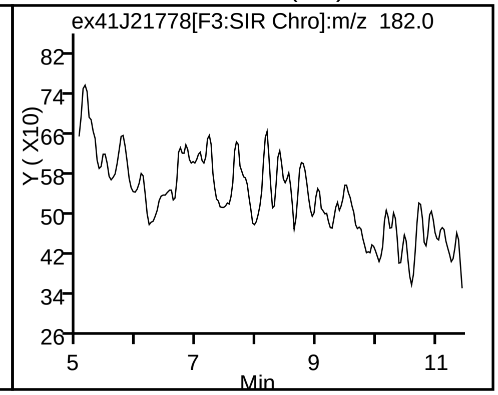
13 3,4-Dinitrotoluene (ND)



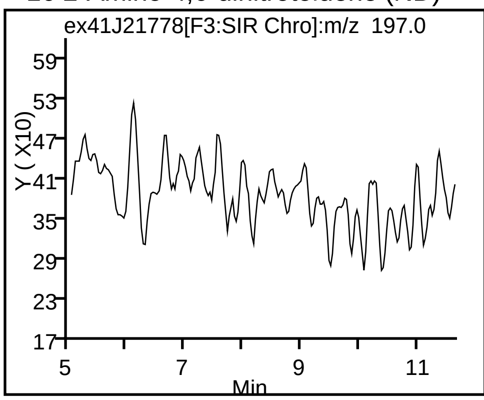
14 4-Amino-2,6-dinitrotoluene (ND)



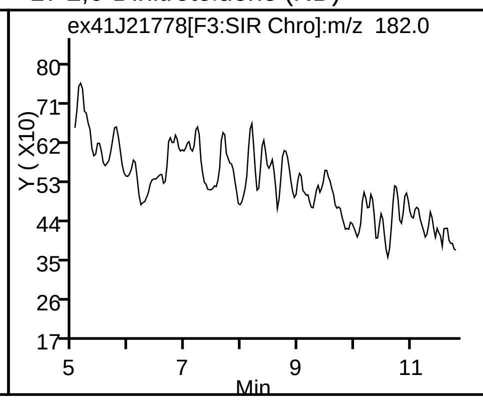
15 2,3-Dinitrotoluene (ND)



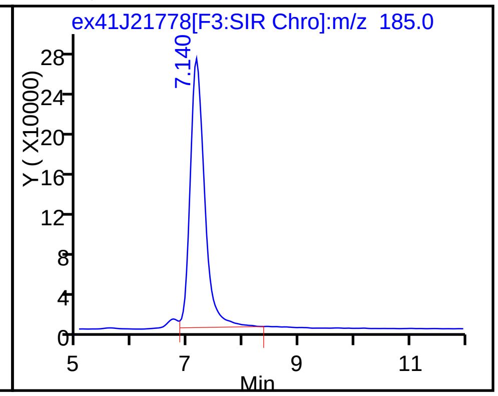
16 2-Amino-4,6-dinitrotoluene (ND)



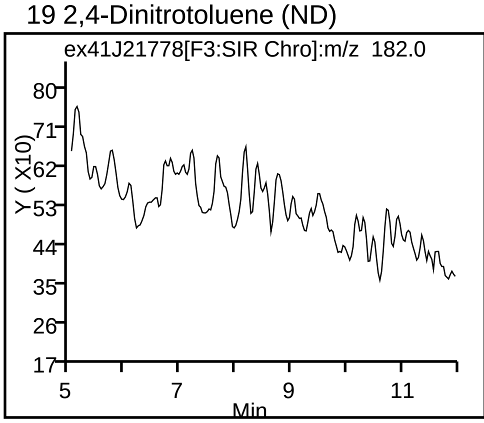
17 2,6-Dinitrotoluene (ND)



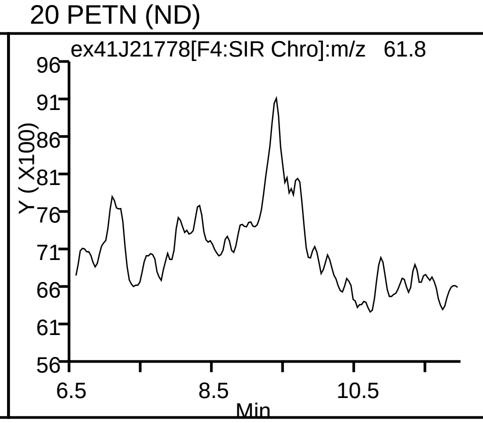
* 18 2,4-dinitrotoluene-d3



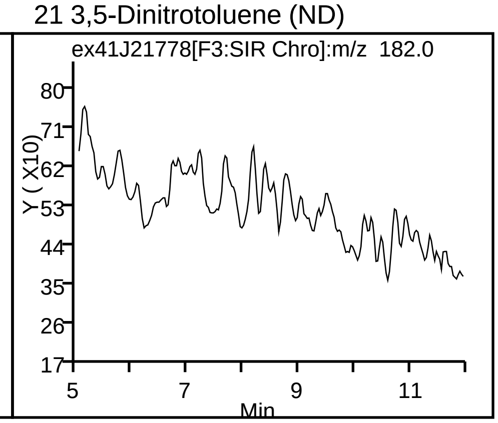
19 2,4-Dinitrotoluene (ND)



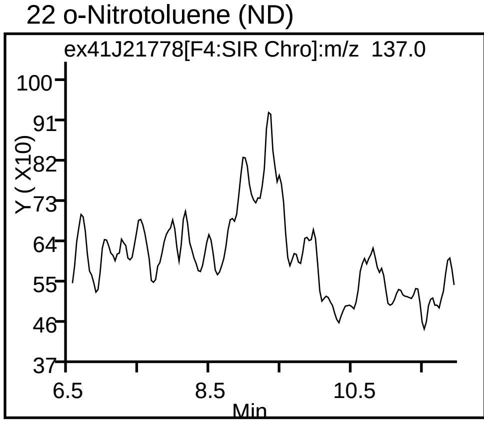
20 PETN (ND)



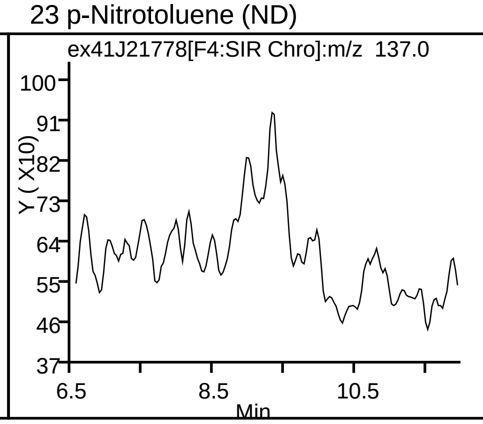
21 3,5-Dinitrotoluene (ND)



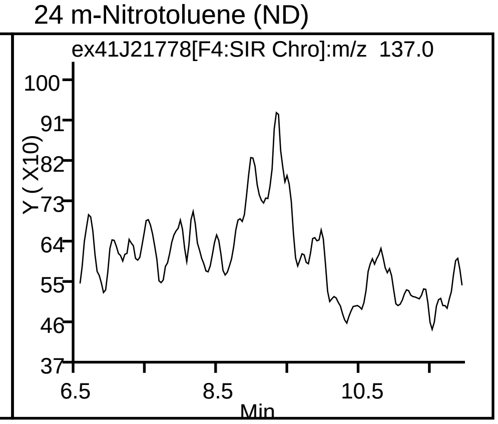
22 o-Nitrotoluene (ND)



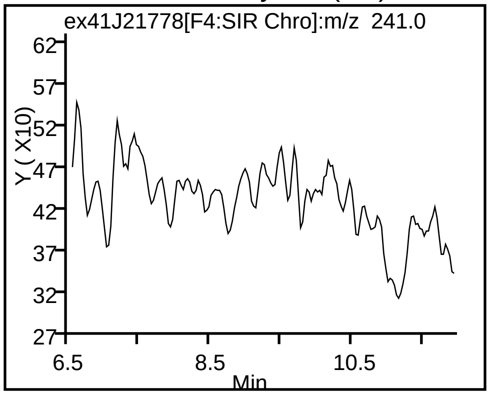
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-93507/1-A

Matrix: Solid Lab File ID: ex41J21807.d

Analysis Method: 8321B Date Collected:

Extraction Method: 8330B Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.84(g) Date Analyzed: 11/04/2011 00:46

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94612 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.092	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.092	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.092	0.012	0.0046
121-14-2	2,4-Dinitrotoluene	0.012	U	0.092	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.092	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.092	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.092	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.092	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.092	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.092	0.023	0.010
2691-41-0	HMX	0.012	U	0.092	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.092	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.092	0.012	0.0097
78-11-5	PETN	0.012	U	0.092	0.012	0.0048
121-82-4	RDX	0.012	U	0.092	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.092	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21807.d		
Lims ID:	MB 280-93507/1-A	Client ID:	
Inject. Date:	04-Nov-2011 00:46:58	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 280-93507/1-A 280-0002711-058		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	24
Lims Batch ID:	94612	Lims Sample ID:	58
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 07:33:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	04-Nov-2011 06:40:21

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		768995	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2320049	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1578877	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	667359	85.6			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

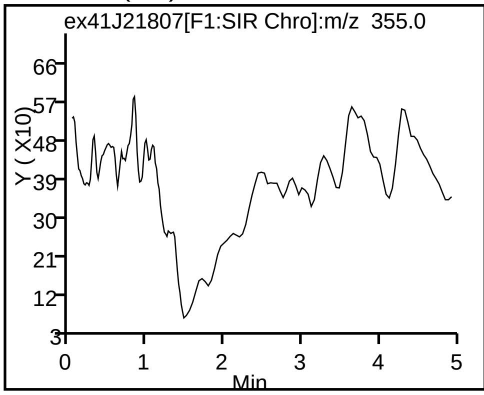
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.776							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4279533	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.201							
20 PETN										
4	61.8		7.646							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0		8.163							
23 p-Nitrotoluene										
4	137.0		8.739							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.227							

QC Flag Legend

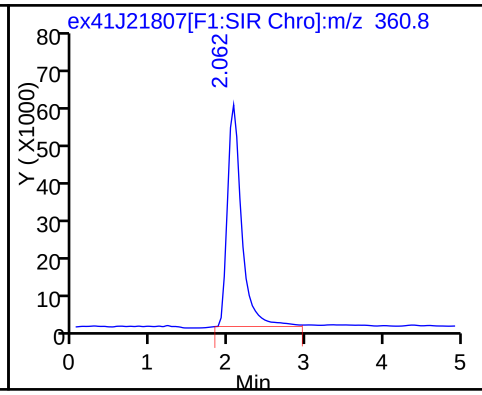
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 07:37:15 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21807.d
Injection Date: 04-Nov-2011 00:46:58 Limit Group: LC - 8321A Expl
Client ID: Instrument ID: LC_LCMS4
Lims Batch ID: 94612 Lims Sample ID: 58
Operator ID: Injection Vol: 40.00 ul

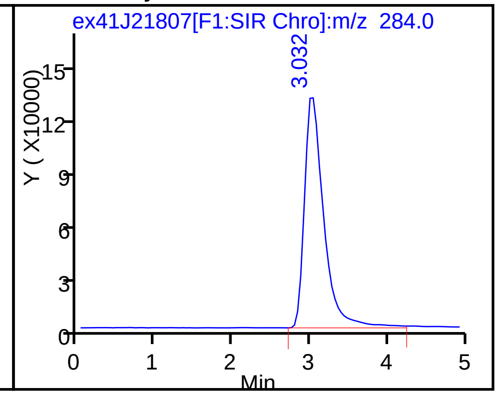
2 HMX (ND)



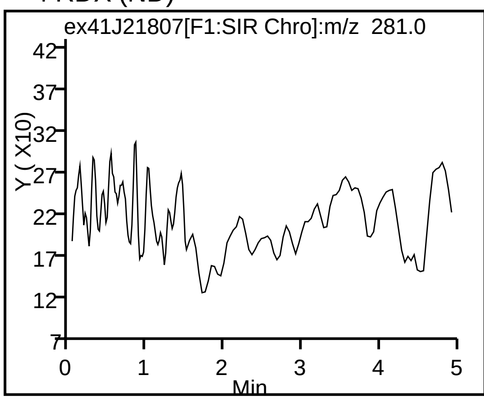
* 1 HMX-13C4



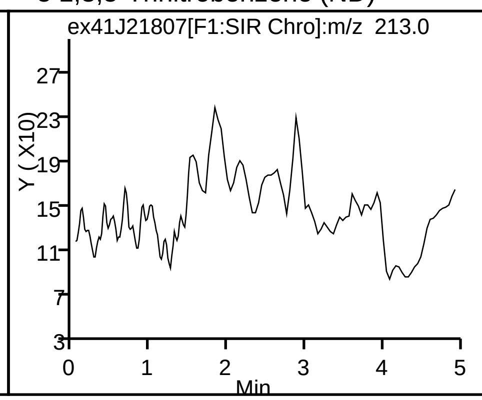
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



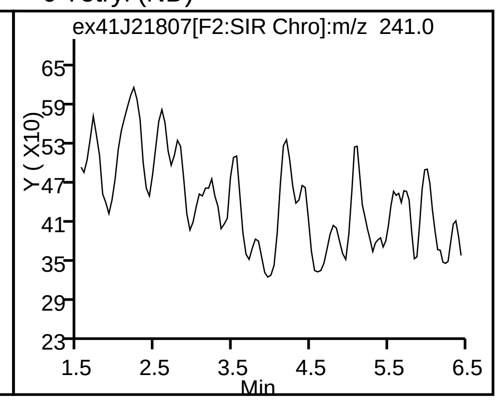
4 RDX (ND)



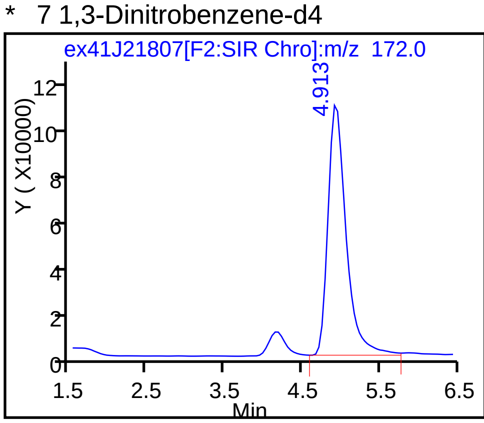
5 1,3,5-Trinitrobenzene (ND)



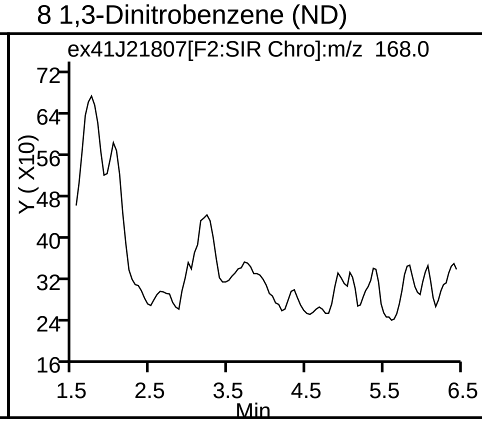
6 Tetryl (ND)



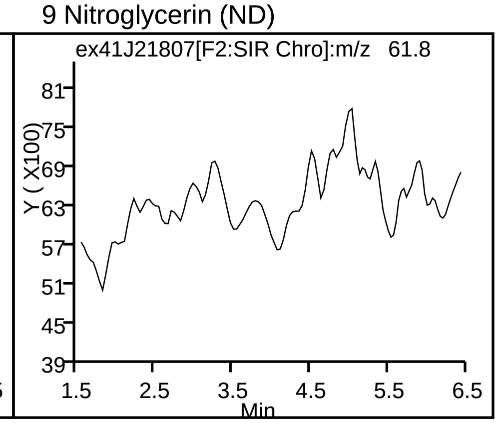
* 7 1,3-Dinitrobenzene-d4



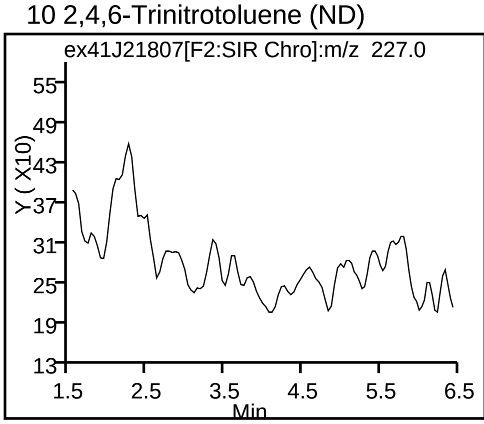
8 1,3-Dinitrobenzene (ND)



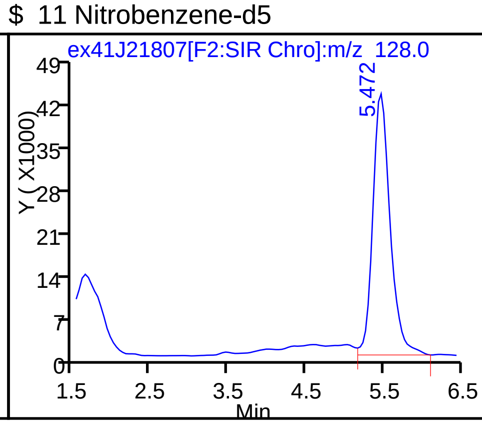
9 Nitroglycerin (ND)



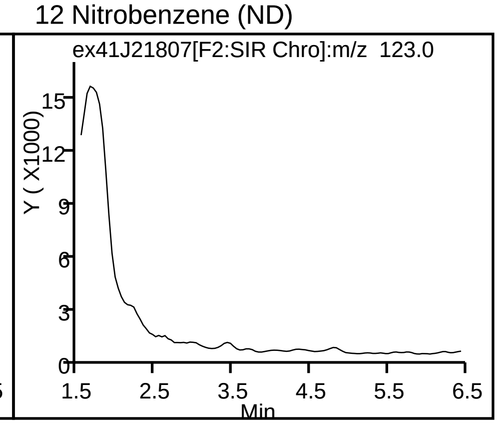
10 2,4,6-Trinitrotoluene (ND)



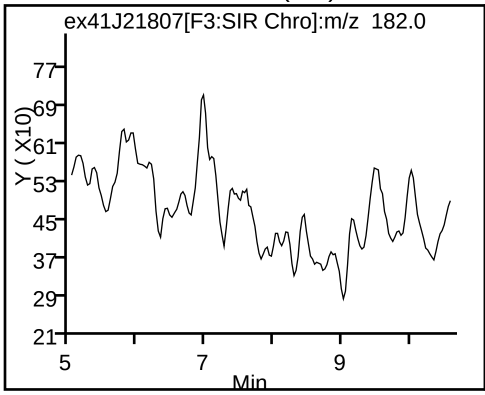
$ 11 Nitrobenzene-d5



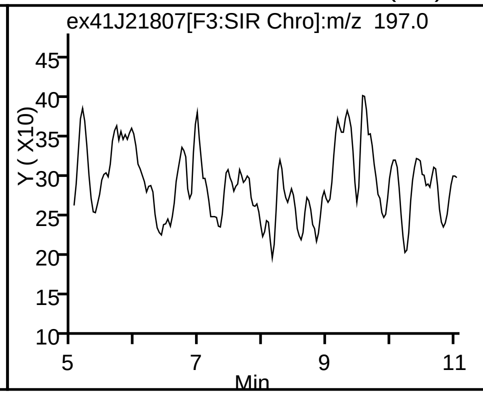
12 Nitrobenzene (ND)



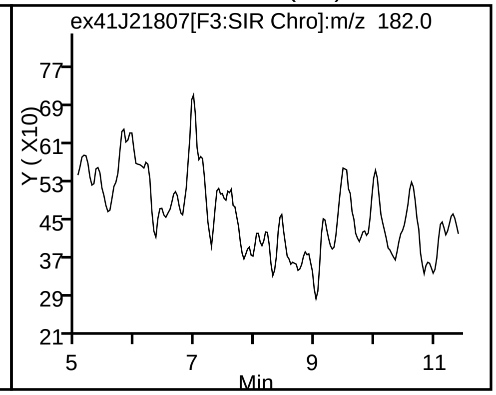
13 3,4-Dinitrotoluene (ND)



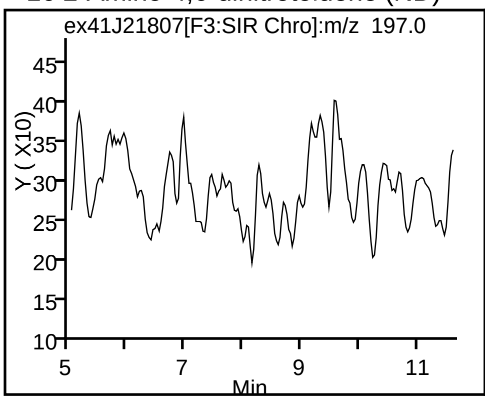
14 4-Amino-2,6-dinitrotoluene (ND)



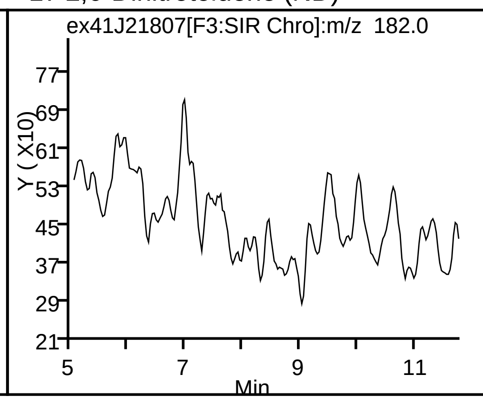
15 2,3-Dinitrotoluene (ND)



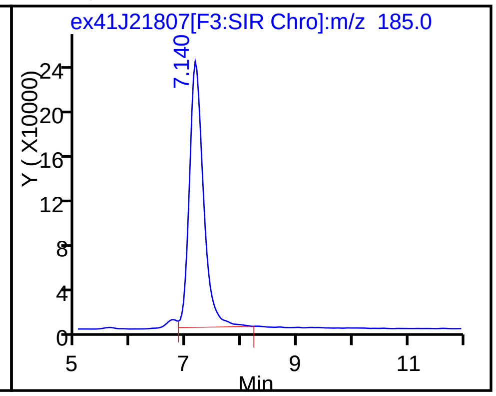
16 2-Amino-4,6-dinitrotoluene (ND)



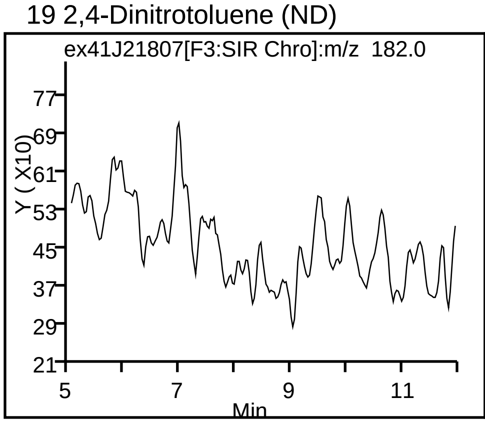
17 2,6-Dinitrotoluene (ND)



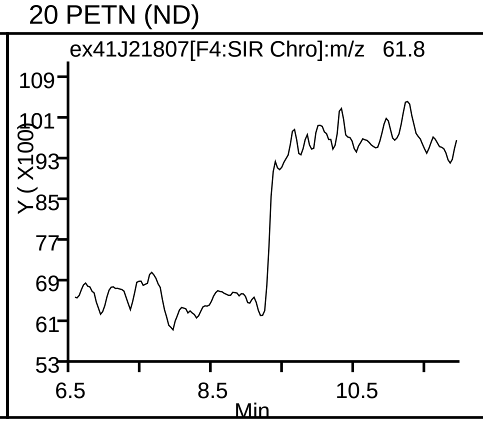
* 18 2,4-dinitrotoluene-d3



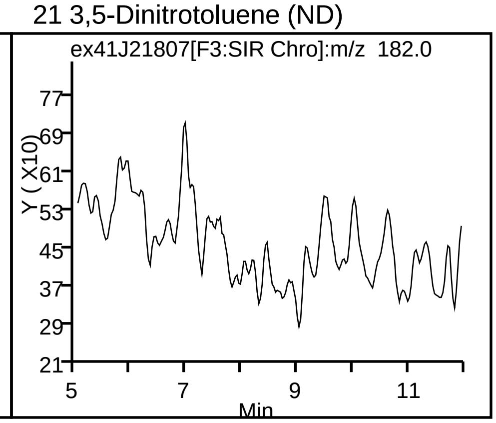
19 2,4-Dinitrotoluene (ND)



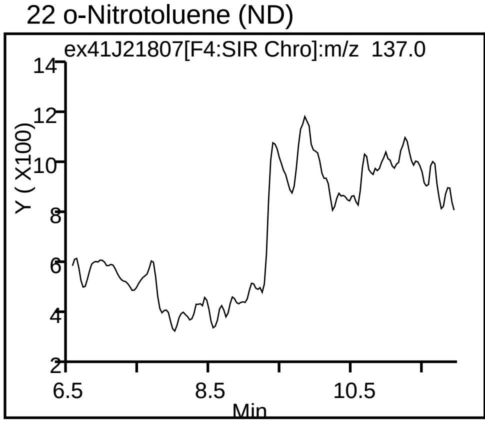
20 PETN (ND)



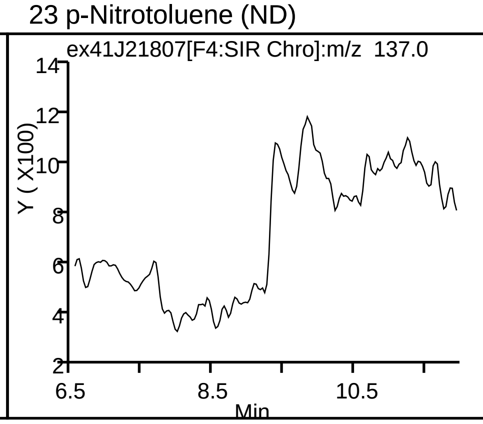
21 3,5-Dinitrotoluene (ND)



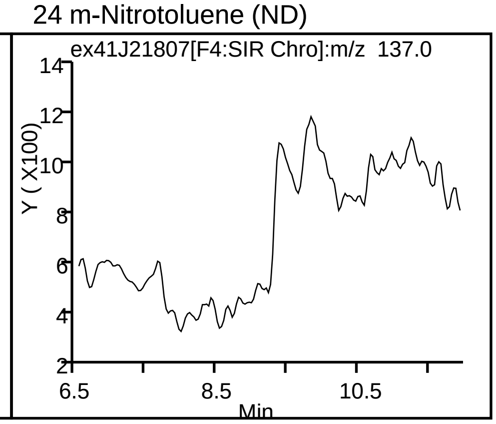
22 o-Nitrotoluene (ND)



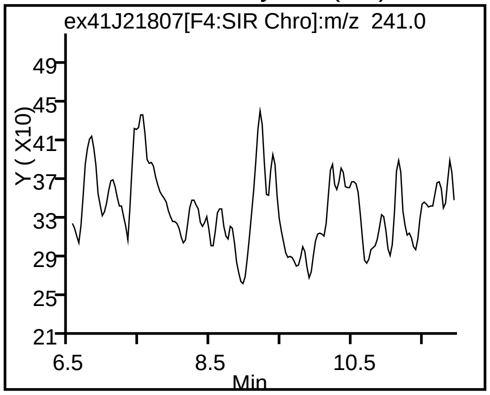
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-93548/1-A

Matrix: Solid   Lab File ID: ex41J21641.d

Analysis Method: 8321B   Date Collected:

Extraction Method: 8330B   Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.28(g)   Date Analyzed: 11/02/2011 05:42

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21641.d		
Lims ID:	MB 280-93548/1-A	Client ID:	
Inject. Date:	02-Nov-2011 05:42:03	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 280-93548/1-A 280-0002689-165		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	99
Lims Batch ID:	94252	Lims Sample ID:	165
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		618471	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1915623	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1391829	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.439							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	558376	81.2			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.867							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.201	0.030		3171776	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.262							
20	PETN									1
4	61.8		7.768							
21	3,5-Dinitrotoluene									1
3	182.0		7.869							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.800							
24	m-Nitrotoluene									1
4	137.0		9.468							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.349							

QC Flag Legend

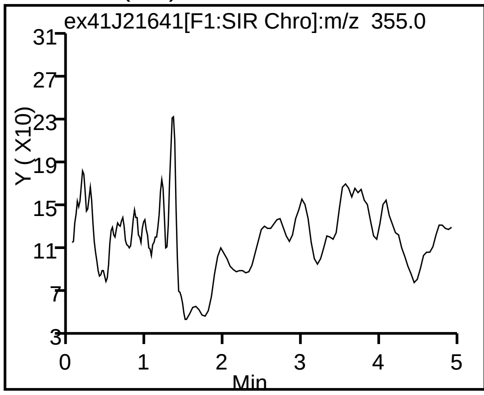
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 10:22:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06

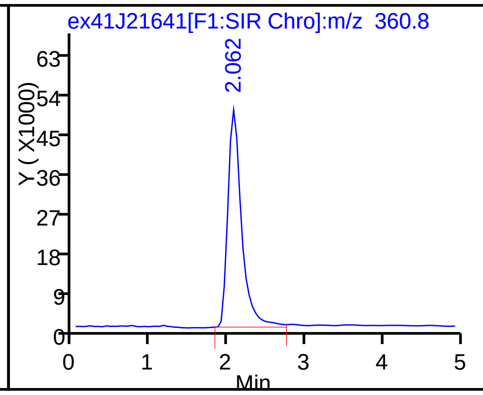
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21641.d

Injection Date:	02-Nov-2011 05:42:03	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	165
Operator ID:		Injection Vol:	40.00 ul

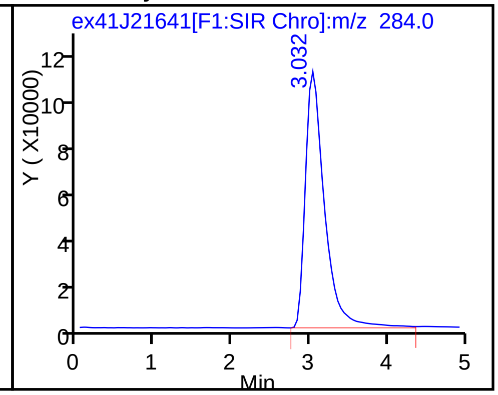
2 HMX (ND)



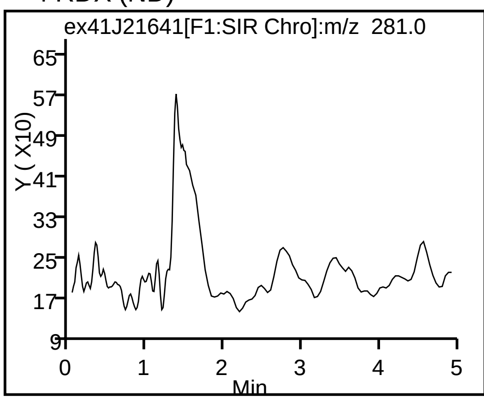
* 1 HMX-13C4



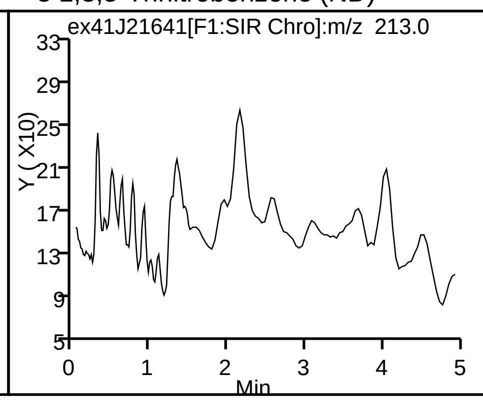
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



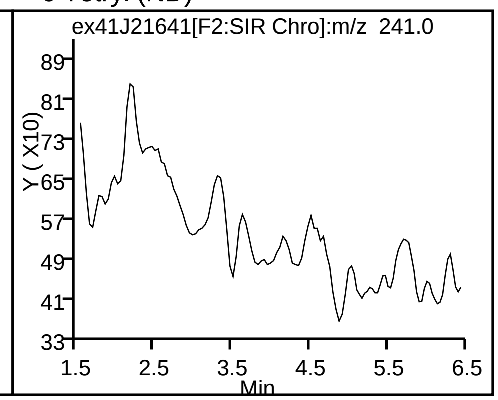
4 RDX (ND)



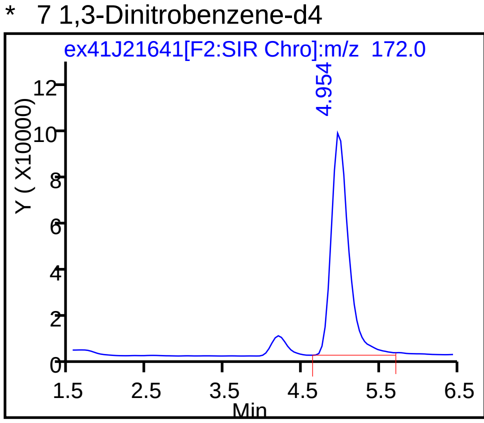
5 1,3,5-Trinitrobenzene (ND)



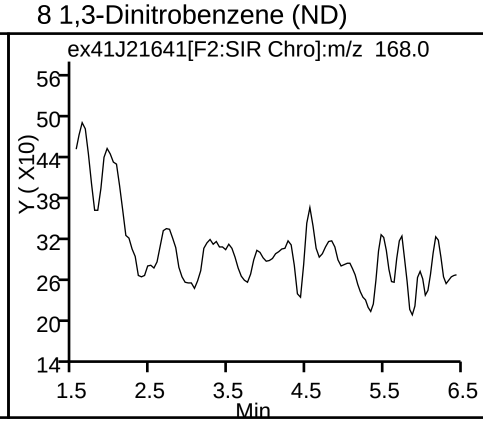
6 Tetryl (ND)



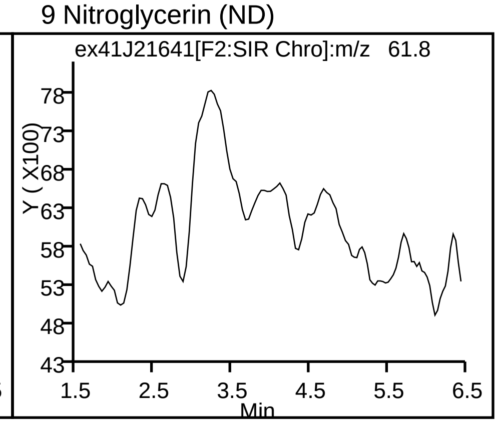
* 7 1,3-Dinitrobenzene-d4



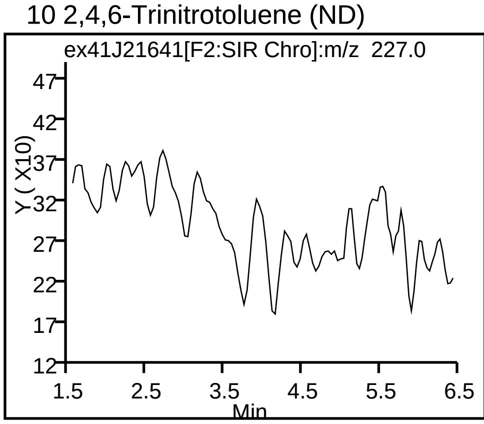
8 1,3-Dinitrobenzene (ND)



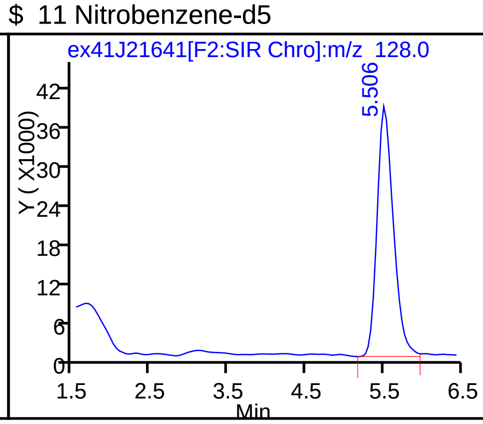
9 Nitroglycerin (ND)



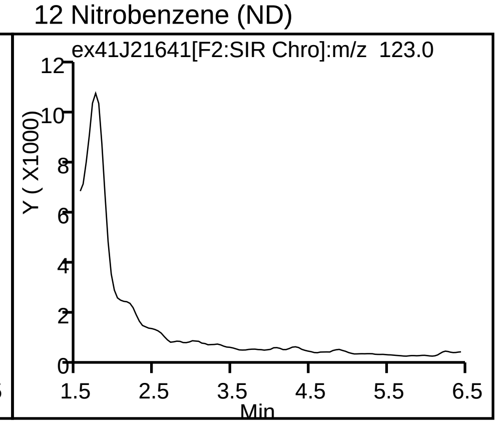
10 2,4,6-Trinitrotoluene (ND)



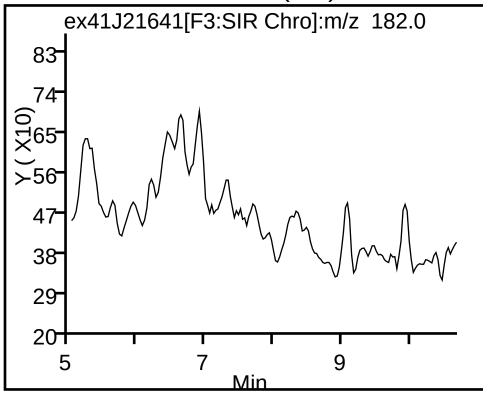
$ 11 Nitrobenzene-d5



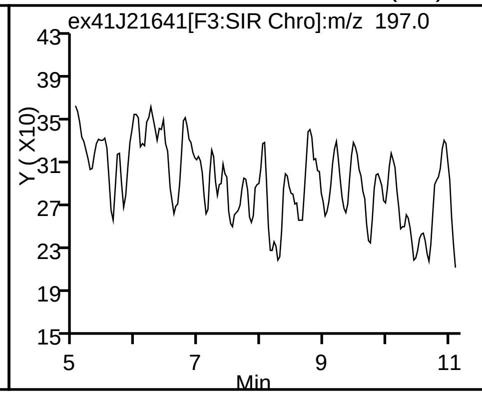
12 Nitrobenzene (ND)



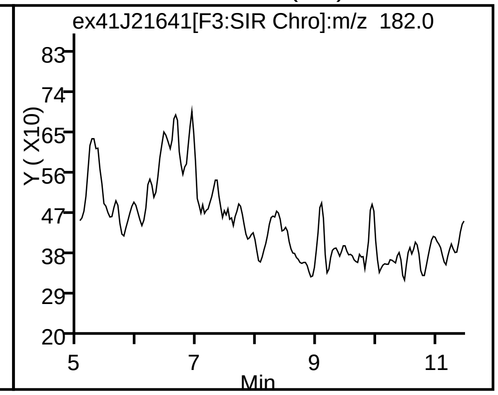
13 3,4-Dinitrotoluene (ND)



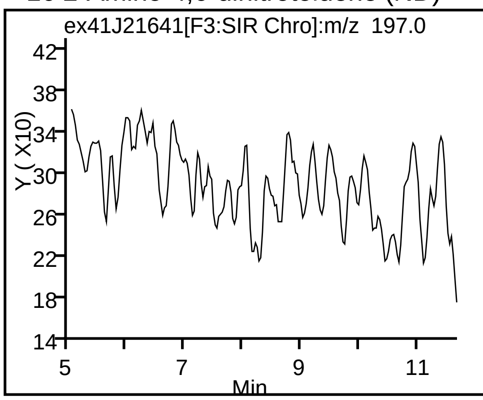
14 4-Amino-2,6-dinitrotoluene (ND)



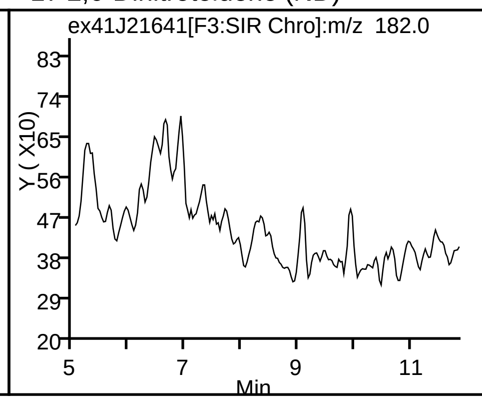
15 2,3-Dinitrotoluene (ND)



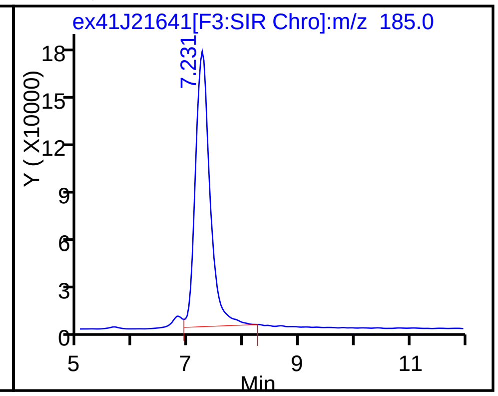
16 2-Amino-4,6-dinitrotoluene (ND)



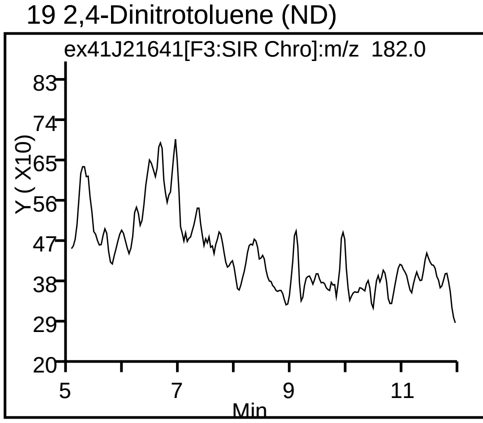
17 2,6-Dinitrotoluene (ND)



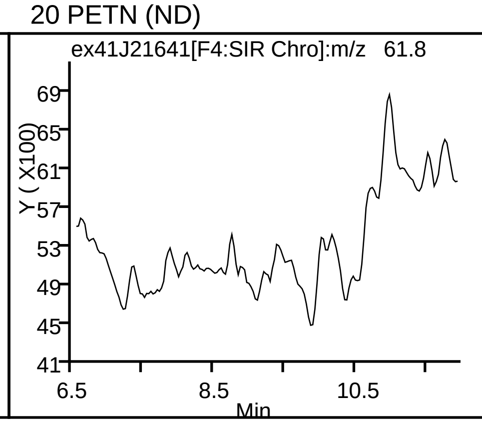
* 18 2,4-dinitrotoluene-d3



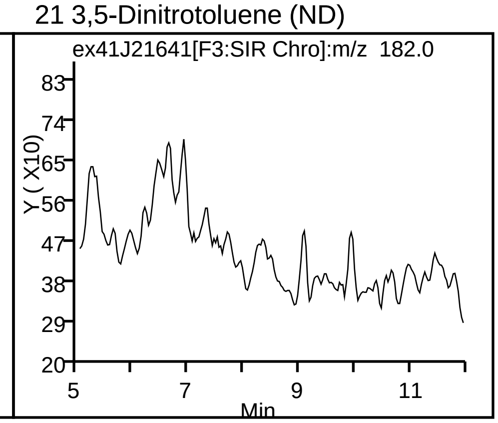
19 2,4-Dinitrotoluene (ND)



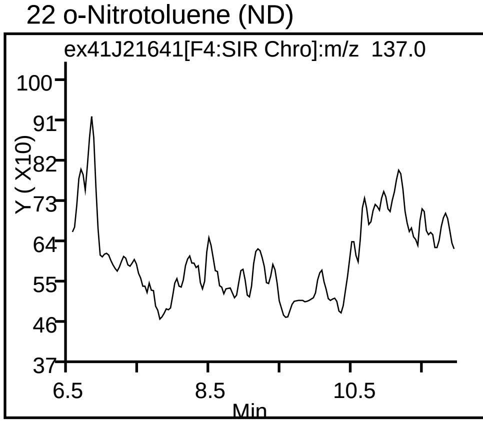
20 PETN (ND)



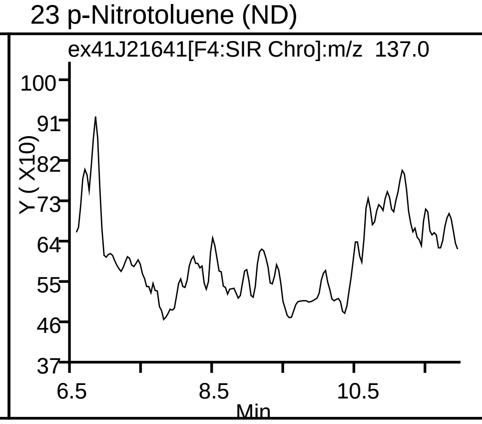
21 3,5-Dinitrotoluene (ND)



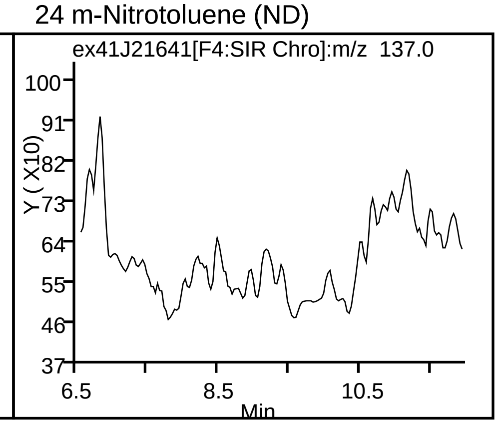
22 o-Nitrotoluene (ND)



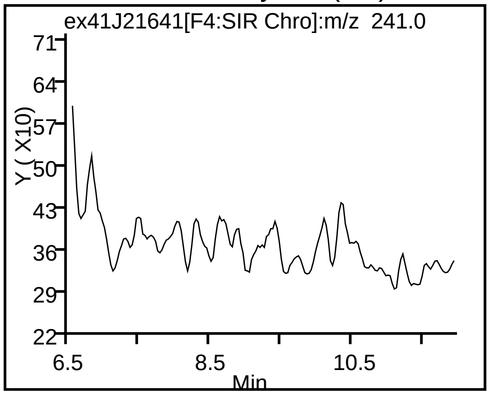
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I

LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: | Lab Sample ID: GB 280-92116/1-B

Matrix: Solid | Lab File ID: ex41J21643.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 8330B | Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.82(g) | Date Analyzed: 11/02/2011 06:09

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac | ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.092	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.092	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.0998		0.092	0.012	0.0046
121-14-2	2,4-Dinitrotoluene	0.012	U	0.092	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.092	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.092	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.092	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.092	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.092	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.092	0.023	0.010
2691-41-0	HMX	0.012	U	0.092	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.092	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.092	0.012	0.0097
78-11-5	PETN	0.012	U	0.092	0.012	0.0048
121-82-4	RDX	0.012	U	0.092	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.092	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	86		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21643.d		
Lims ID:	GB 280-92116/1-B	Client ID:	
Inject. Date:	02-Nov-2011 06:09:27	Dil. Factor:	1.0000
Sample Type:	GB		
Sample ID:	GB 280-92116/1-B 280-0002689-167		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	101
Lims Batch ID:	94252	Lims Sample ID:	167
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		617110	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2012248	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1191533	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.439	-0.034	1.091	606418	27.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	496977	84.5			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							
15 2,3-Dinitrotoluene										1
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		3705461	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.262							
20 PETN										
4	61.8		7.768							
21 3,5-Dinitrotoluene										1
3	182.0		7.869							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

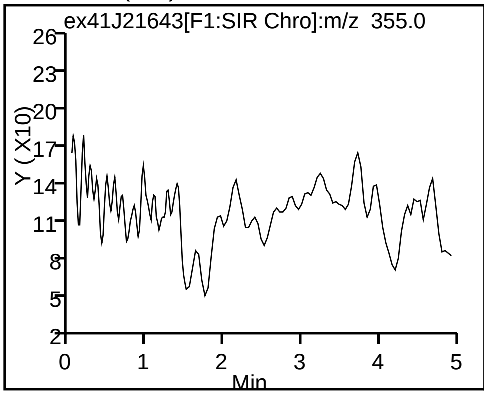
QC Flag Legend

Processing Flags
1 - Missing Peaks

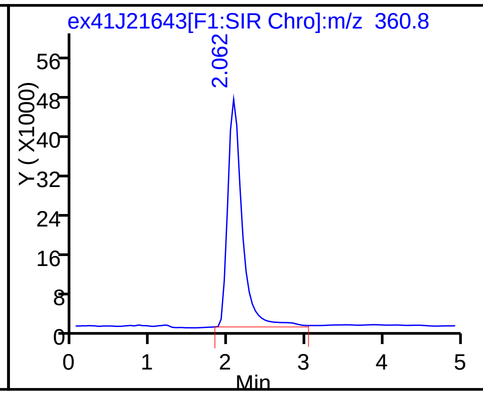
Report Date: 02-Nov-2011 10:22:25 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21643.d

Injection Date:	02-Nov-2011 06:09:27	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	167
Operator ID:		Injection Vol:	40.00 ul

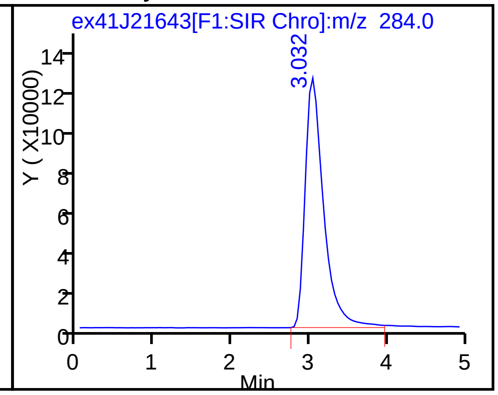
2 HMX (ND)



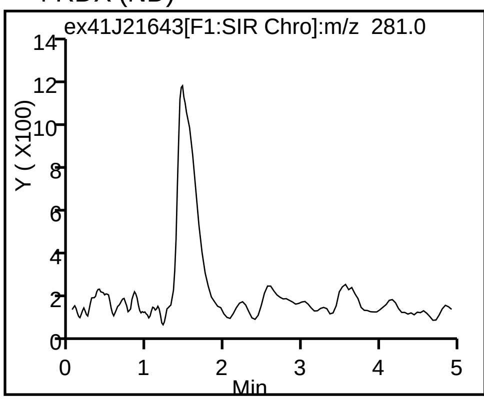
* 1 HMX-13C4



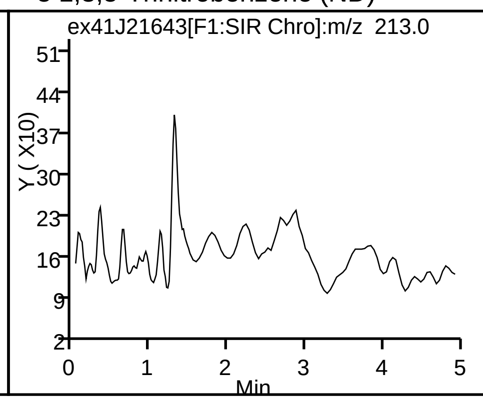
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



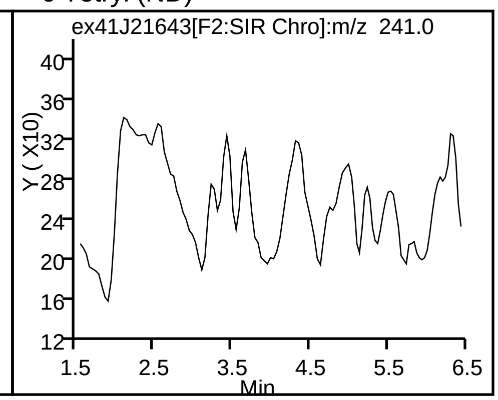
4 RDX (ND)



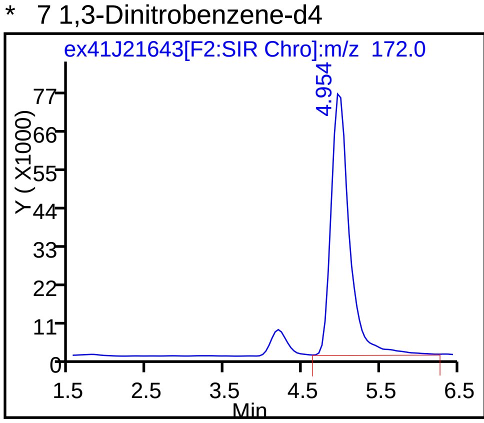
5 1,3,5-Trinitrobenzene (ND)



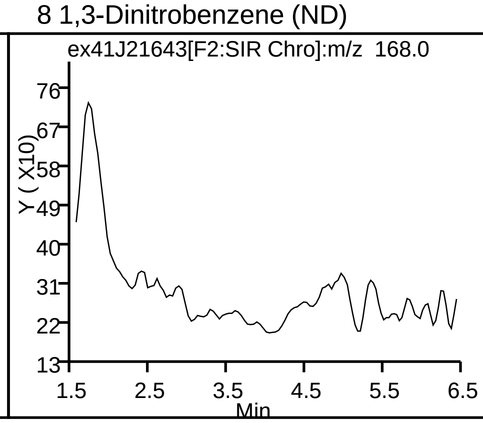
6 Tetryl (ND)



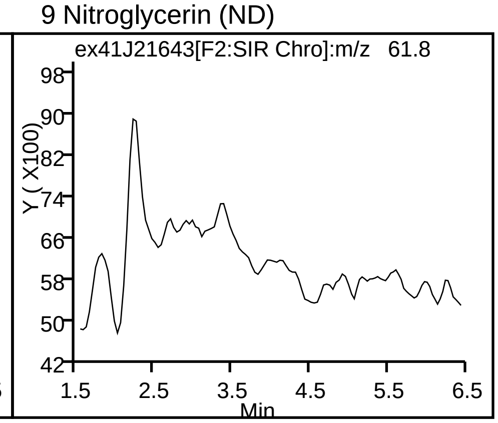
* 7 1,3-Dinitrobenzene-d4



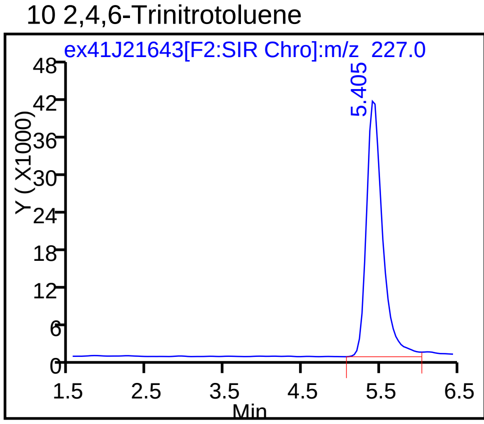
8 1,3-Dinitrobenzene (ND)



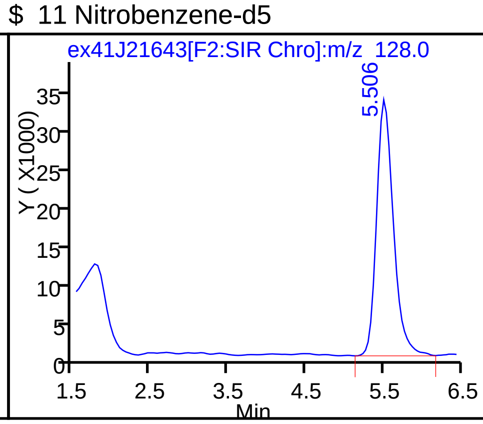
9 Nitroglycerin (ND)



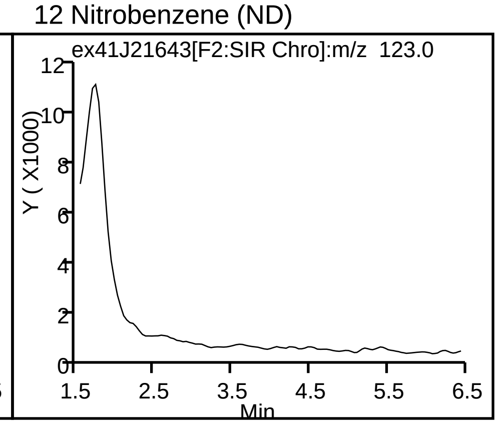
10 2,4,6-Trinitrotoluene



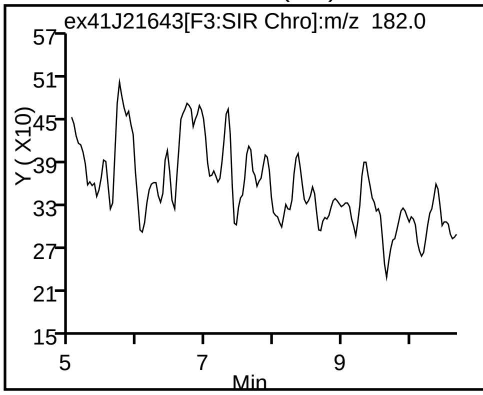
$ 11 Nitrobenzene-d5



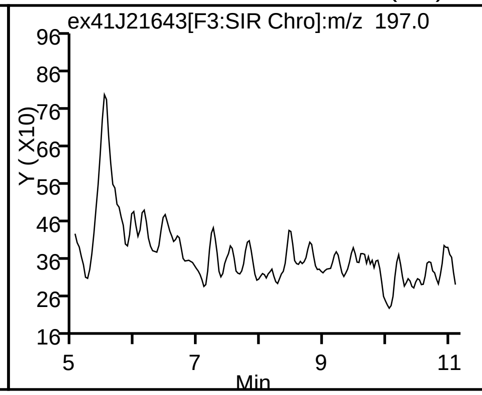
12 Nitrobenzene (ND)



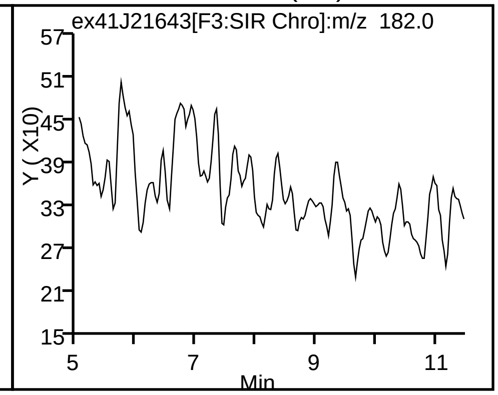
13 3,4-Dinitrotoluene (ND)



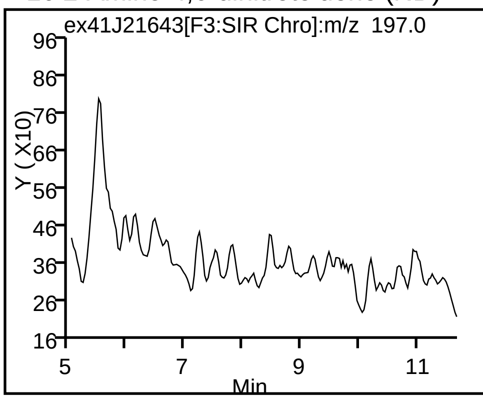
14 4-Amino-2,6-dinitrotoluene (ND)



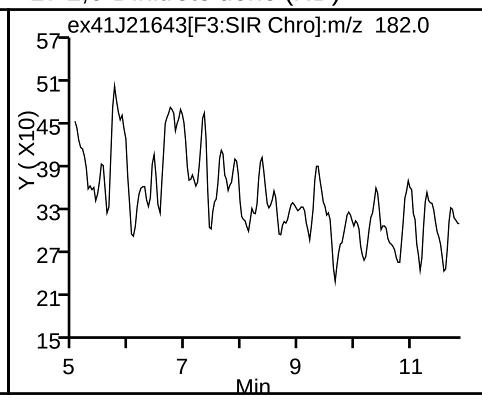
15 2,3-Dinitrotoluene (ND)



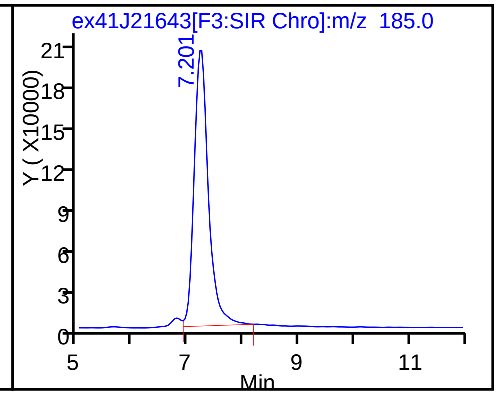
16 2-Amino-4,6-dinitrotoluene (ND)



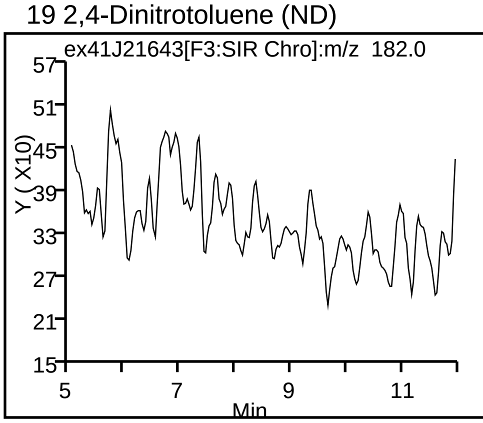
17 2,6-Dinitrotoluene (ND)



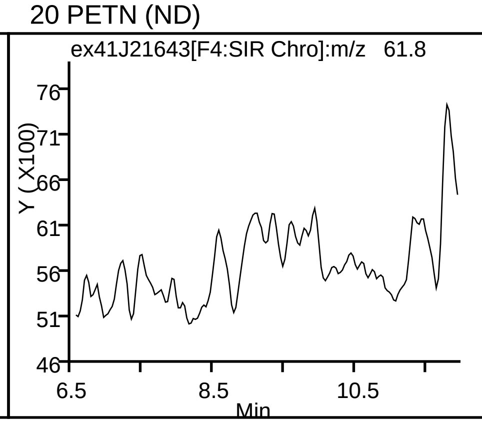
* 18 2,4-dinitrotoluene-d3



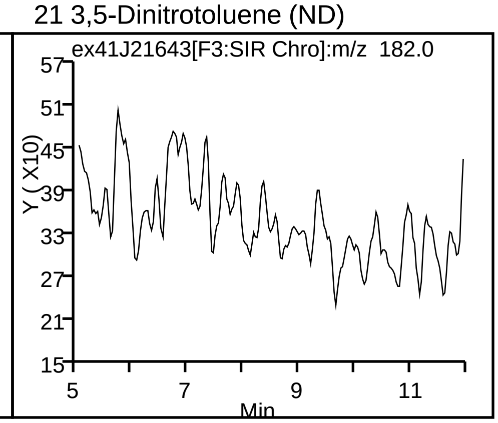
19 2,4-Dinitrotoluene (ND)



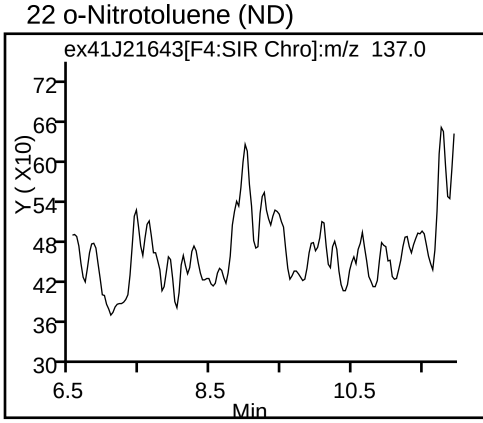
20 PETN (ND)



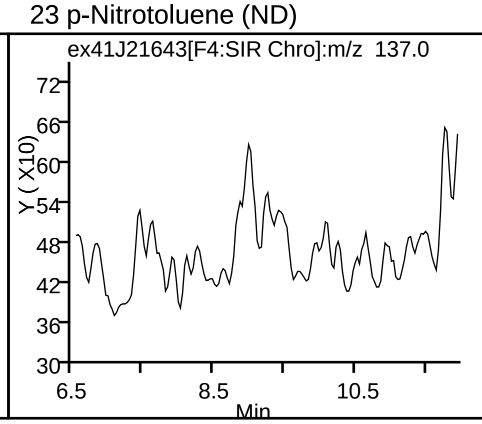
21 3,5-Dinitrotoluene (ND)



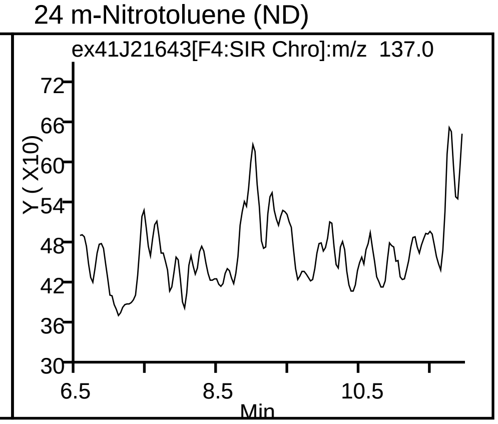
22 o-Nitrotoluene (ND)



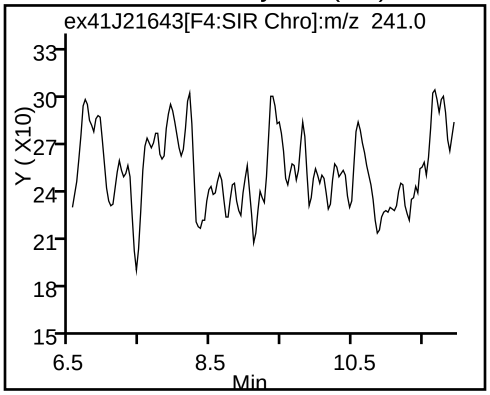
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 280-92354/8

Matrix: Solid   Lab File ID: ex41J21010.d

Analysis Method: 8321B   Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL)   Date Analyzed: 10/21/2011 11:04

Con. Extract Vol.: 1.0(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 92354   Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.050	U	10	0.050	1.7
99-65-0	1,3-Dinitrobenzene	0.050	U	10	0.050	1.4
118-96-7	2,4,6-Trinitrotoluene	0.050	U	10	0.050	2.2
121-14-2	2,4-Dinitrotoluene	0.050	U	10	0.050	1.9
606-20-2	2,6-Dinitrotoluene	0.050	U	10	0.050	2.2
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	10	0.050	2.1
88-72-2	2-Nitrotoluene	0.050	U	10	0.050	2.2
99-08-1	3-Nitrotoluene	0.050	U	10	0.050	2.5
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	10	0.050	1.9
99-99-0	4-Nitrotoluene	0.050	U	10	0.050	2.6
2691-41-0	HMX	0.050	U	10	0.050	1.9
98-95-3	Nitrobenzene	0.050	U	10	0.050	3.3
55-63-0	Nitroglycerin	0.050	U	14	0.050	4.5
78-11-5	PETN	0.050	U	10	0.050	1.8
121-82-4	RDX	0.050	U	10	0.050	2.1
479-45-8	Tetryl	0.050	U	10	0.050	2.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	96		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21010.d		
Lims ID:	ICB	Client ID:	
Inject. Date:	21-Oct-2011 11:04:21	Dil. Factor:	1.0000
Sample Type:	ICB		
Sample ID:	10/21/11BLK ICB 280-0002644-008		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	1
Lims Batch ID:	92354	Lims Sample ID:	8
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\8321exp4-25.m		
Last Update:	24-Oct-2011 07:32:46	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	21-Oct-2011 12:19:57

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		590369	250.0			
2 HMX										1
1	355.0		2.062							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2376310	250.0			
4 RDX										1
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.799							
6 Tetryl										
2	241.0		4.509							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.994	0.000		1449500	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.068							
9 Nitroglycerin										
2	61.8		5.068							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.438							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.540	0.000	1.109	344594	47.9			
12 Nitrobenzene										1
2	123.0		5.674							
13 3,4-Dinitrotoluene										1
3	182.0		5.718							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.156							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.563							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.745							
17 2,6-Dinitrotoluene										1
3	182.0		6.897							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.261	0.001		4206276	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.353							
20 PETN										1
4	61.8		7.828							
21 3,5-Dinitrotoluene										
3	182.0		7.960							
22 o-Nitrotoluene										1
4	137.0		8.345							
23 p-Nitrotoluene										1
4	137.0		8.891							
24 m-Nitrotoluene										
4	137.0		9.559							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.440							

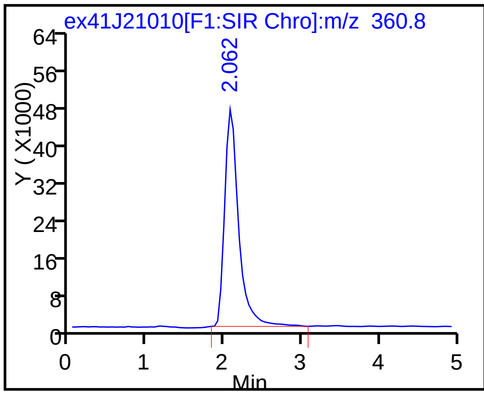
QC Flag Legend

Processing Flags
1 - Missing Peaks

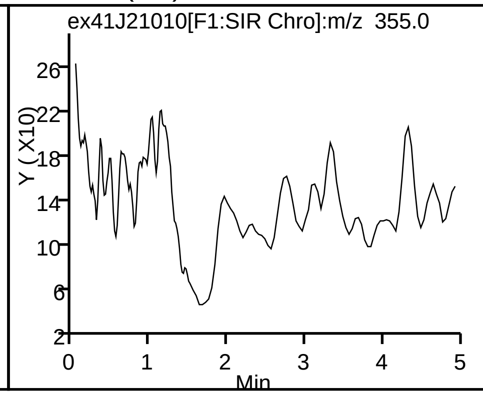
Report Date: 24-Oct-2011 07:32:48 | Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21010.d

Injection Date:	21-Oct-2011 11:04:21	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	92354	Lims Sample ID:	8
Operator ID:		Injection Vol:	40.00 ul

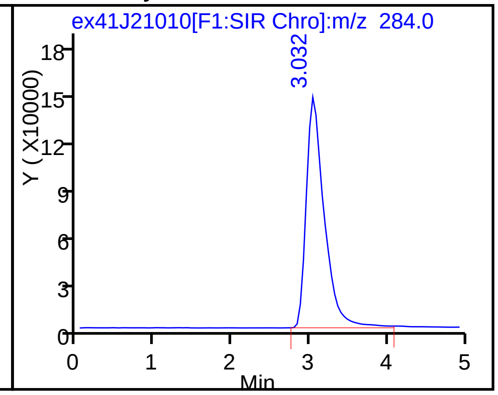
* 1 HMX-13C4



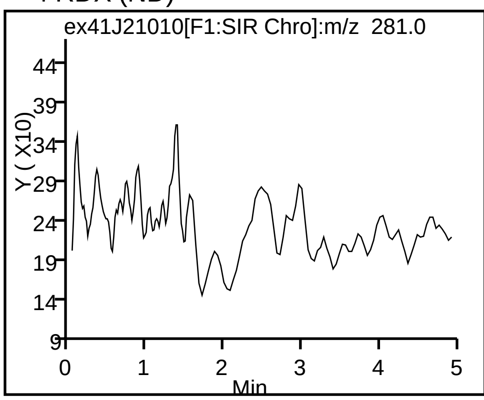
2 HMX (ND)



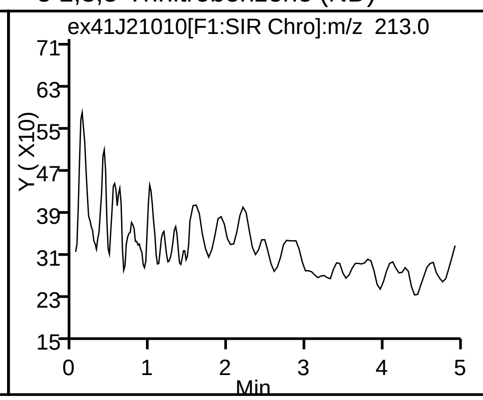
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



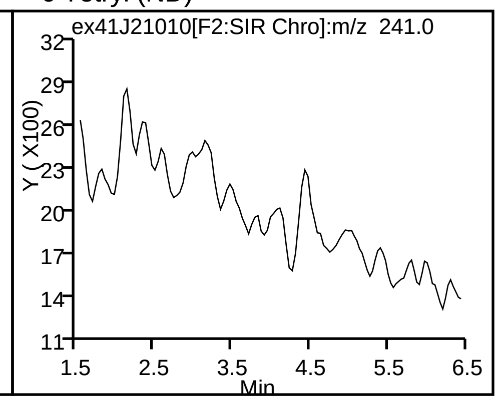
4 RDX (ND)



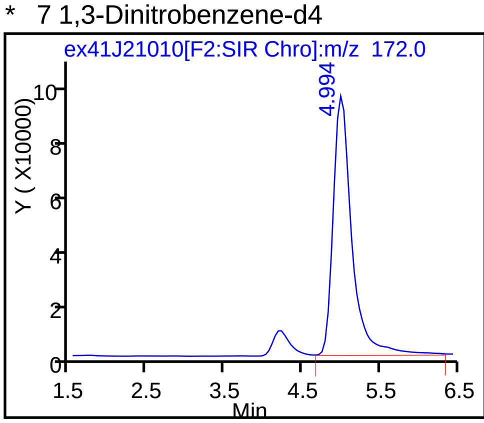
5 1,3,5-Trinitrobenzene (ND)



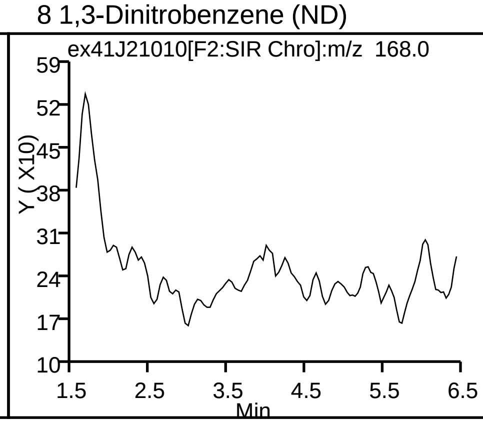
6 Tetryl (ND)



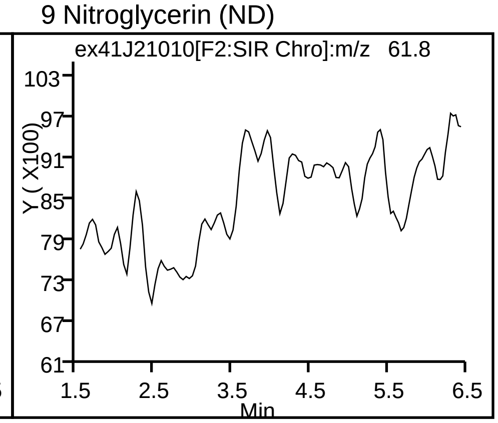
* 7 1,3-Dinitrobenzene-d4



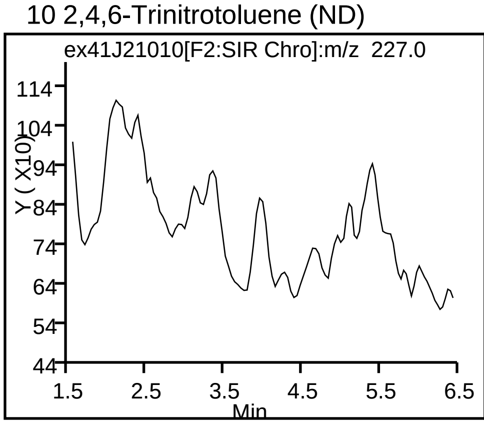
8 1,3-Dinitrobenzene (ND)



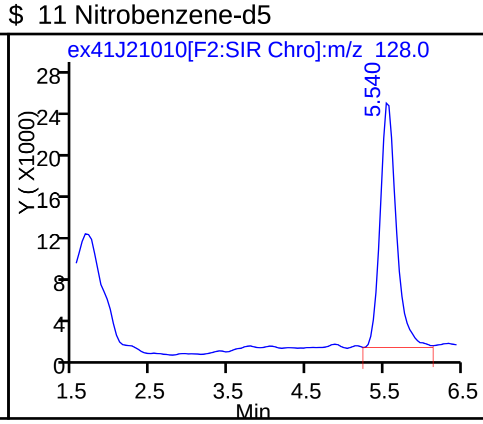
9 Nitroglycerin (ND)



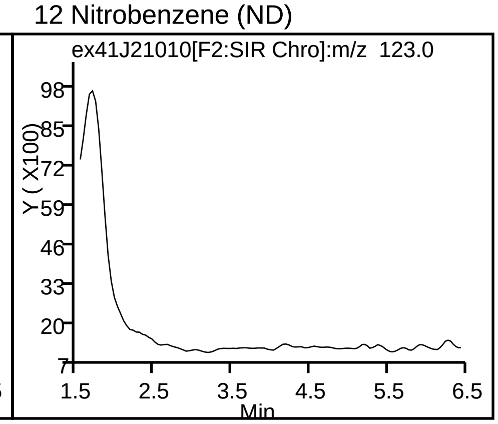
10 2,4,6-Trinitrotoluene (ND)



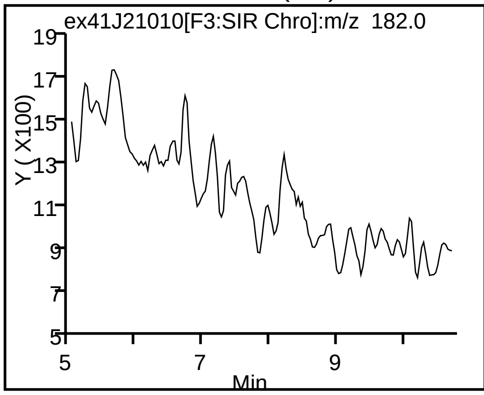
$ 11 Nitrobenzene-d5



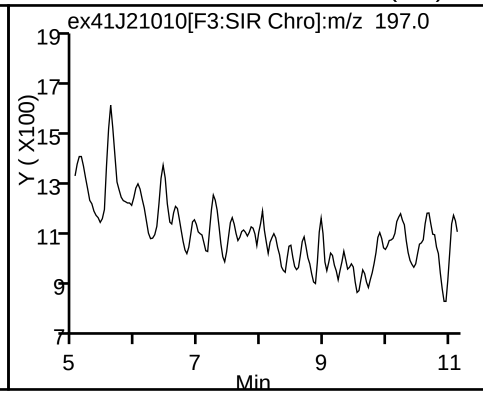
12 Nitrobenzene (ND)



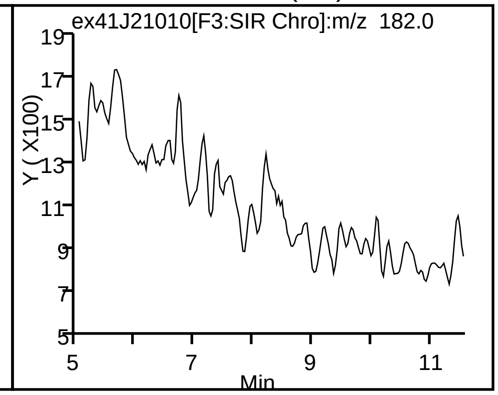
13 3,4-Dinitrotoluene (ND)



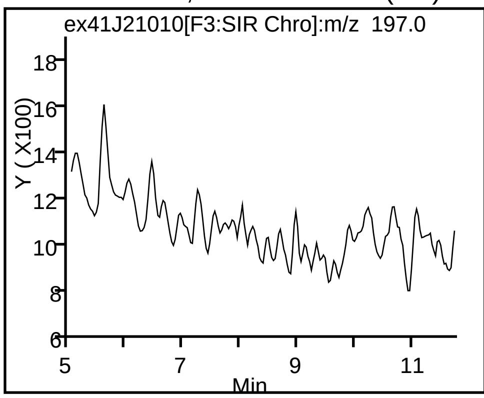
14 4-Amino-2,6-dinitrotoluene (ND)



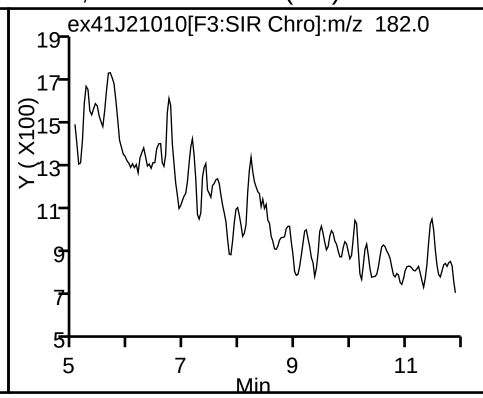
15 2,3-Dinitrotoluene (ND)



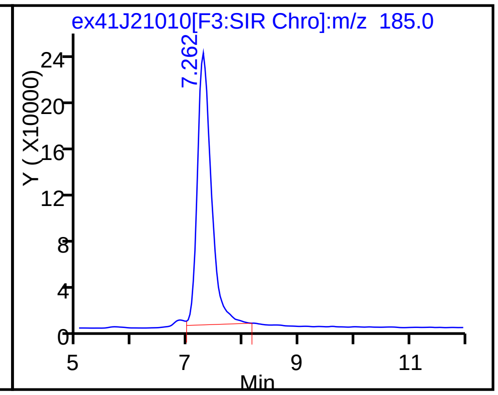
16 2-Amino-4,6-dinitrotoluene (ND)



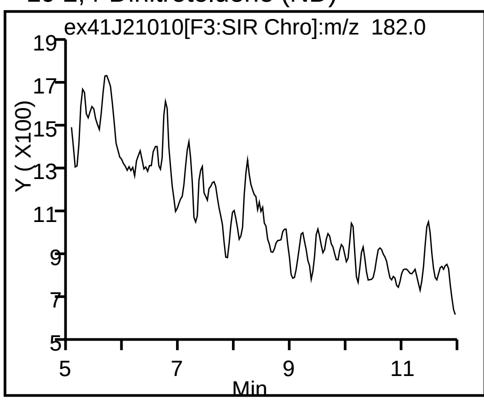
17 2,6-Dinitrotoluene (ND)



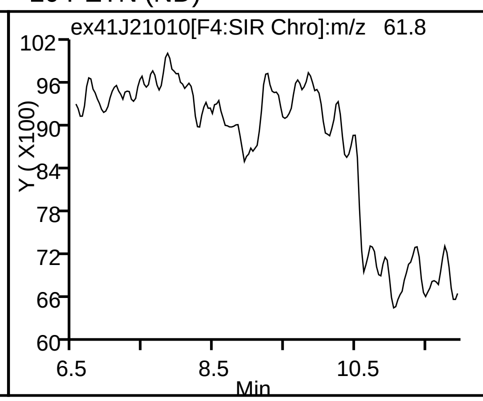
* 18 2,4-dinitrotoluene-d3



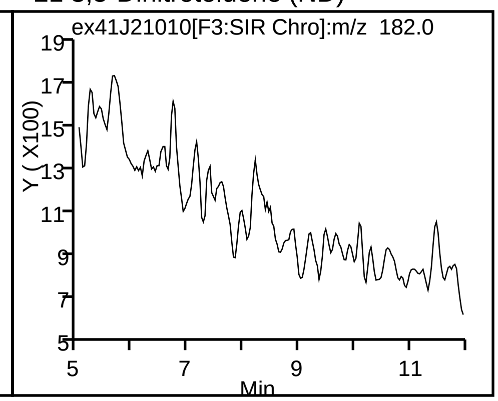
19 2,4-Dinitrotoluene (ND)



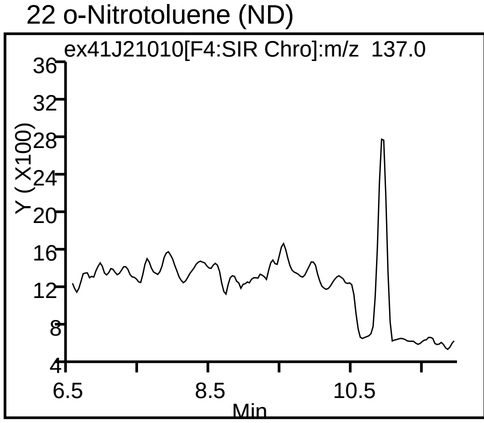
20 PETN (ND)



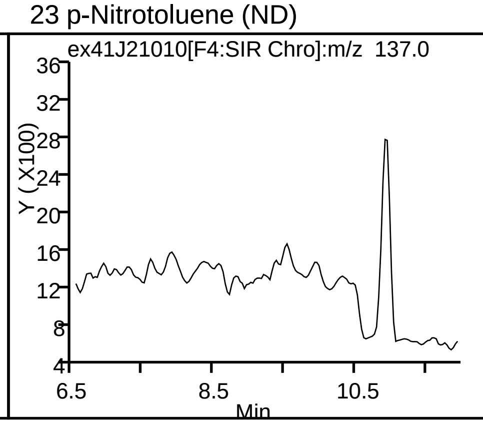
21 3,5-Dinitrotoluene (ND)



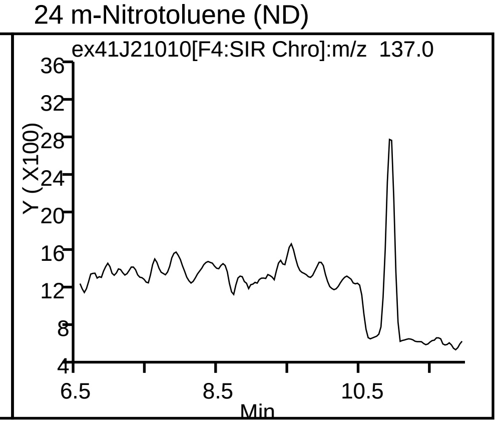
22 o-Nitrotoluene (ND)



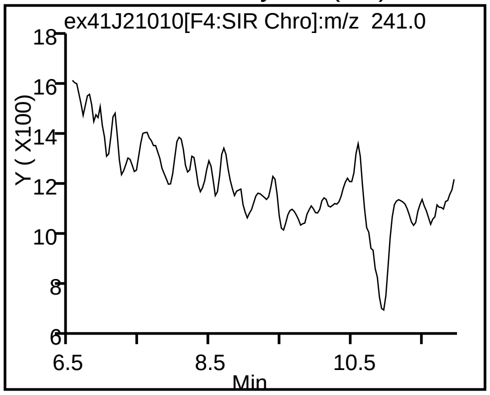
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver	Job No.: 280-21902-1

SDG No.:

Client Sample ID:	Lab Sample ID: LCS 280-92995/2-A

Matrix: Solid	Lab File ID: ex41J21752.d

Analysis Method: 8321B	Date Collected:

Extraction Method: 8330B	Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.17(g)	Date Analyzed: 11/03/2011 12:16

Con. Extract Vol.: 40(mL)	Dilution Factor: 1

Injection Volume: 40(uL)	GC Column: IonPac	ID: 2(mm)

% Moisture:	GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610	Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.341		0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.355		0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.276		0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.363		0.098	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.346		0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.393		0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.348		0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.368		0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.358		0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.341		0.098	0.025	0.011
2691-41-0	HMX	0.342		0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.365		0.098	0.012	0.011
55-63-0	Nitroglycerin	0.324		0.098	0.012	0.010
78-11-5	PETN	0.380		0.098	0.012	0.0051
121-82-4	RDX	0.378		0.098	0.012	0.0042
479-45-8	Tetryl	0.288		0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21752.d		
Lims ID:	LCS 280-92995/2-A	Client ID:	
Inject. Date:	03-Nov-2011 12:16:45	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS 280-92995/2-A 280-0002711-003		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	86
Lims Batch ID:	94610	Lims Sample ID:	3
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	337489	86.9			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		433611	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		1737492	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	636523	96.1			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	489984	86.6			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	479695	73.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1235194	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.954	0.040	1.016	484315	90.2			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	2632256	82.3			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.337	0.068	1.100	1656234	70.2			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.114	469298	76.9			
12 Nitrobenzene										
2	123.0	5.607	5.573	0.034	1.141	450403	92.9			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.021	0.034	0.848	1822476	91.0			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.594	0.030	0.928	2472454	100.0			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.745	0.061	0.953	3944103	88.0			

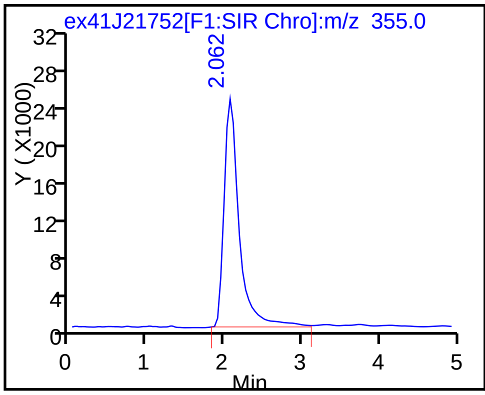
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.110	0.030		4211734	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.170	0.061	1.013	1982510	92.2			
20 PETN										
4	61.8	7.677	7.616	0.061	1.000	3199150	96.7			
22 o-Nitrotoluene										
4	137.0	8.193	8.132	0.061	1.000	793654	88.5			
23 p-Nitrotoluene										
4	137.0	8.739	8.648	0.091	1.000	693313	86.8			
24 m-Nitrotoluene										
4	137.0	9.408	9.316	0.092	1.000	461351	93.5			

Report Date: 04-Nov-2011 06:46:29 Chrom Revision: 1.2 13-Jul-2011 10:43:06

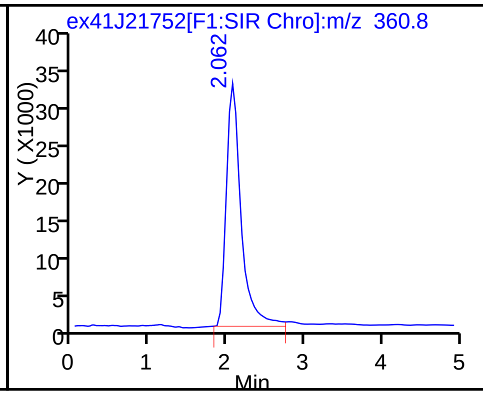
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21752.d

Injection Date:	03-Nov-2011 12:16:45	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	3
Operator ID:		Injection Vol:	40.00 ul

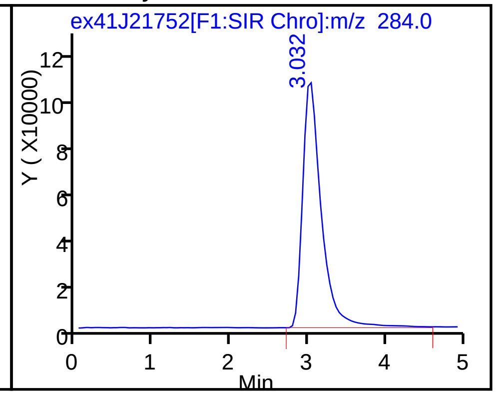
2 HMX



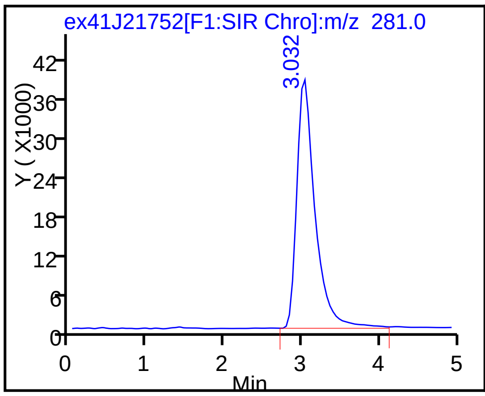
* 1 HMX-13C4



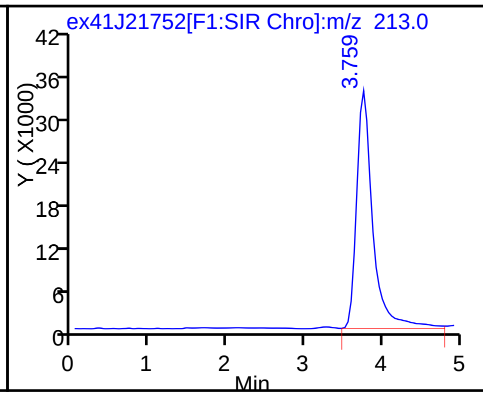
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



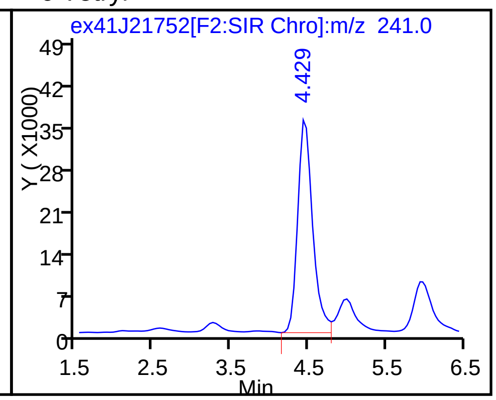
4 RDX



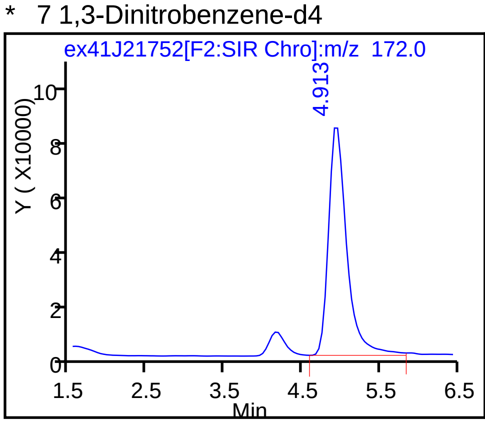
5 1,3,5-Trinitrobenzene



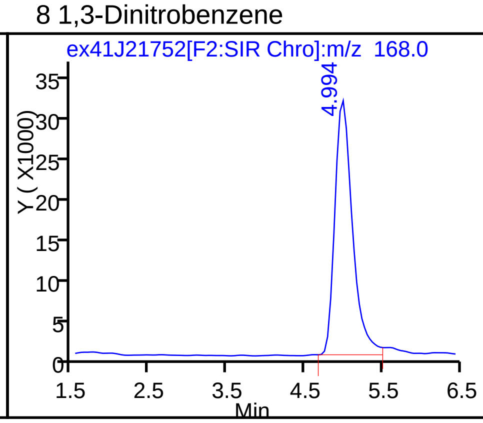
6 Tetryl



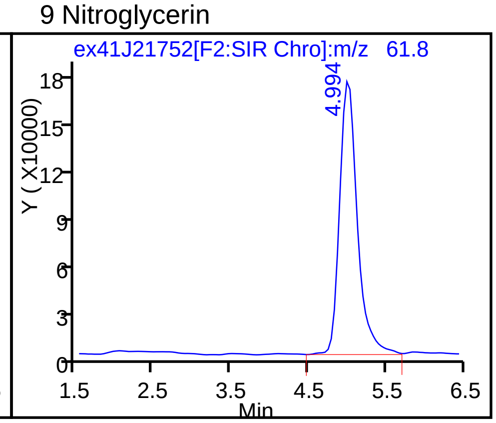
* 7 1,3-Dinitrobenzene-d4



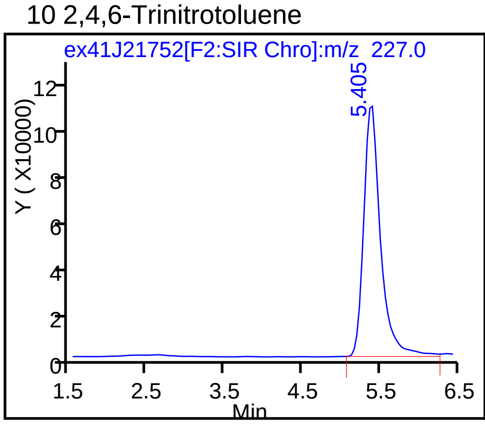
8 1,3-Dinitrobenzene



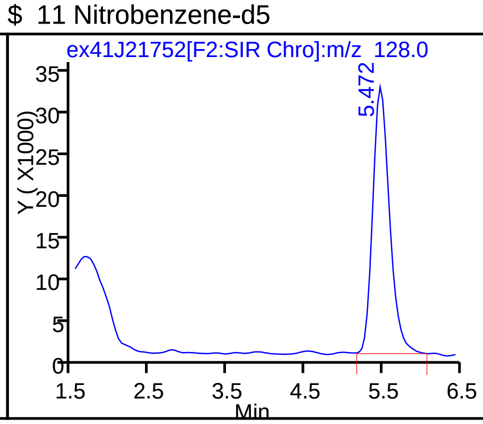
9 Nitroglycerin



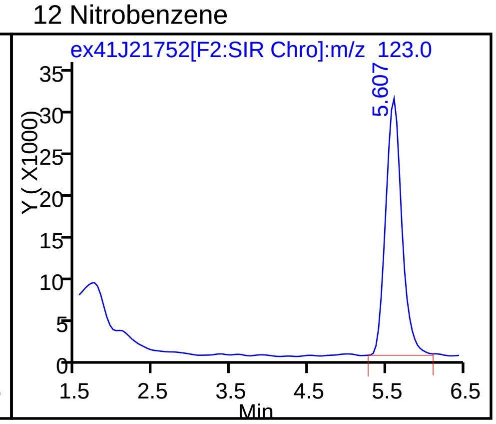
10 2,4,6-Trinitrotoluene



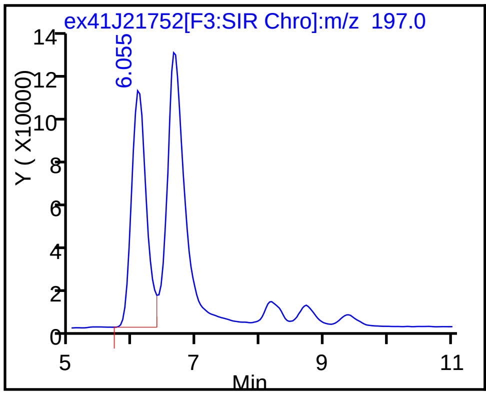
$ 11 Nitrobenzene-d5



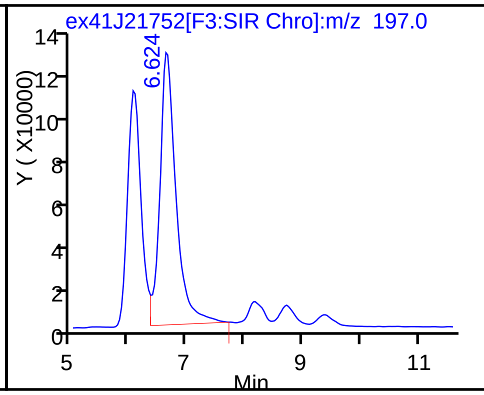
12 Nitrobenzene



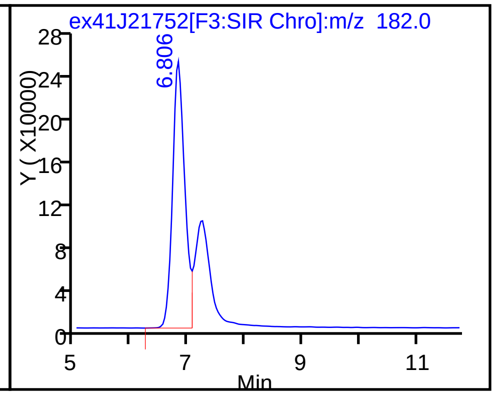
14 4-Amino-2,6-dinitrotoluene



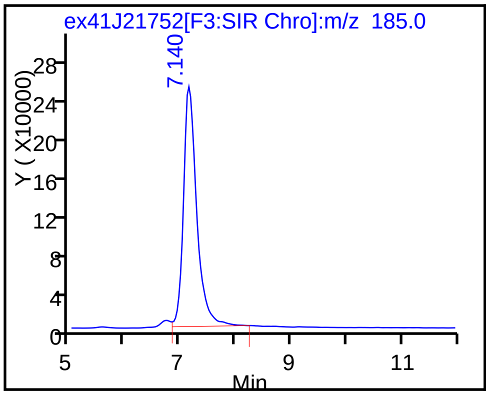
16 2-Amino-4,6-dinitrotoluene



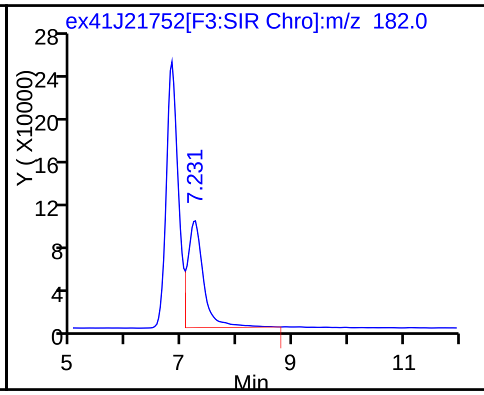
17 2,6-Dinitrotoluene



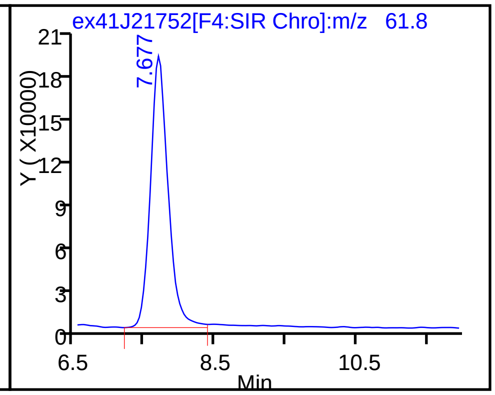
* 18 2,4-dinitrotoluene-d3



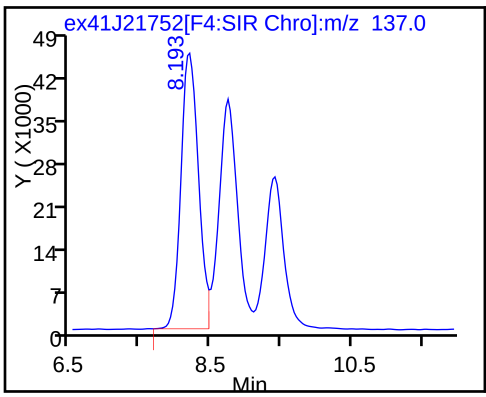
19 2,4-Dinitrotoluene



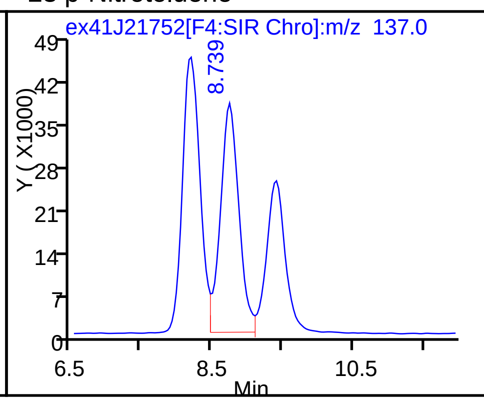
20 PETN



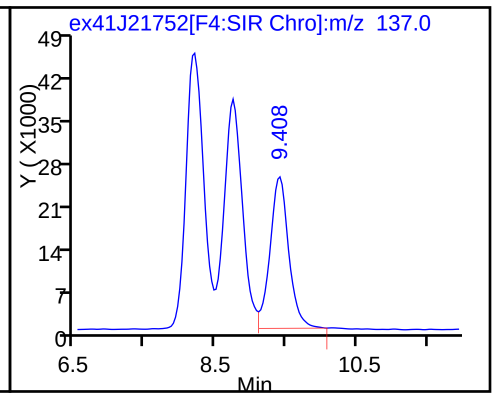
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-93019/2-A

Matrix: Solid Lab File ID: ex41J21835.d

Analysis Method: 8321B Date Collected:

Extraction Method: 8330B Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.00(g) Date Analyzed: 11/04/2011 07:10

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94725 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.372		0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.409		0.10	0.013	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.296		0.10	0.013	0.0050
121-14-2	2,4-Dinitrotoluene	0.410		0.10	0.013	0.0082
606-20-2	2,6-Dinitrotoluene	0.414		0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.476		0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.478		0.10	0.013	0.0057
99-08-1	3-Nitrotoluene	0.456		0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.462		0.10	0.013	0.0051
99-99-0	4-Nitrotoluene	0.465		0.10	0.025	0.011
2691-41-0	HMX	0.372		0.10	0.013	0.0058
98-95-3	Nitrobenzene	0.387		0.10	0.013	0.011
55-63-0	Nitroglycerin	0.330		0.10	0.013	0.011
78-11-5	PETN	0.491		0.10	0.013	0.0052
121-82-4	RDX	0.425		0.10	0.013	0.0043
479-45-8	Tetryl	0.310		0.10	0.013	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	105		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21835.d		
Lims ID:	LCS 280-93019/2-A	Client ID:	
Inject. Date:	04-Nov-2011 07:10:06	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS 280-93019/2-A rr 280-0002711-086		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	49
Lims Batch ID:	94725	Lims Sample ID:	86
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 08:41:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	462520	93.0			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		554836	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1901371	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	769030	106.2			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	619315	92.9			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.910	597354	77.4			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.954	-0.041		1452256	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.016	645019	102.2			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	3098741	82.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	2056957	74.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	745586	104.1			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	551657	96.7			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.848	2175793	115.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.654	-0.030	0.928	2760119	119.0			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.953	4359719	103.6			

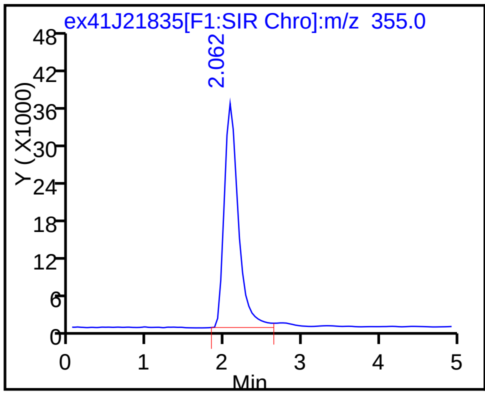
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.170	-0.030		3954800	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.201	0.000	1.009	2071582	102.6			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	3800167	122.8			
22 o-Nitrotoluene										
4	137.0	8.163	8.193	-0.030	1.000	1006159	119.6			
23 p-Nitrotoluene										
4	137.0	8.709	8.739	-0.030	1.000	871788	116.2			
24 m-Nitrotoluene										
4	137.0	9.377	9.377	0.000	1.000	527891	114.0			

Report Date: 04-Nov-2011 08:41:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06

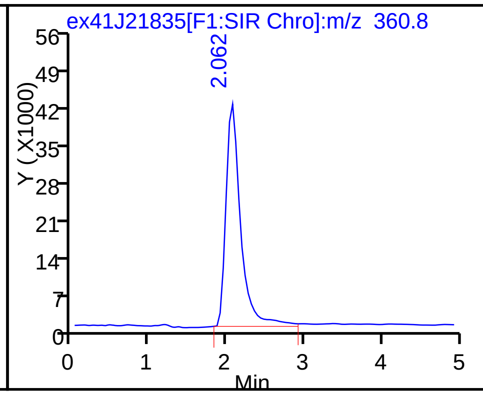
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21835.d

Injection Date:	04-Nov-2011 07:10:06	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94725	Lims Sample ID:	86
Operator ID:		Injection Vol:	40.00 ul

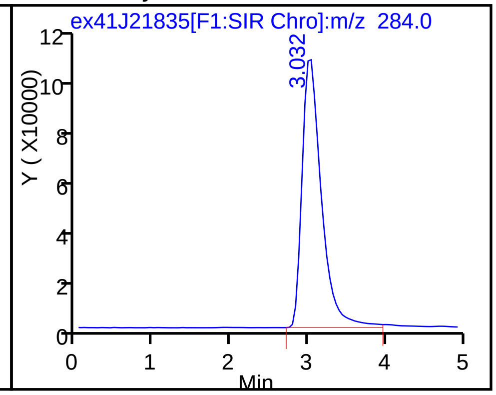
2 HMX



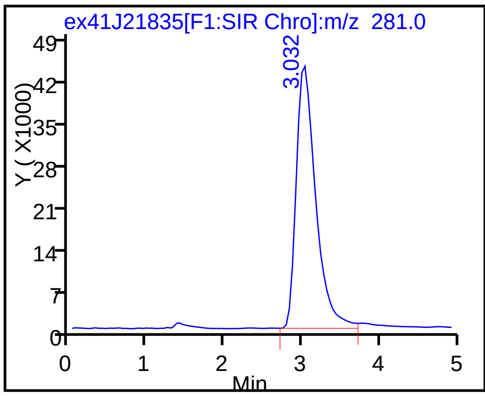
* 1 HMX-13C4



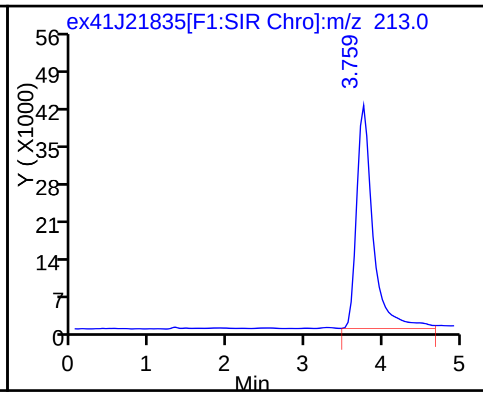
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



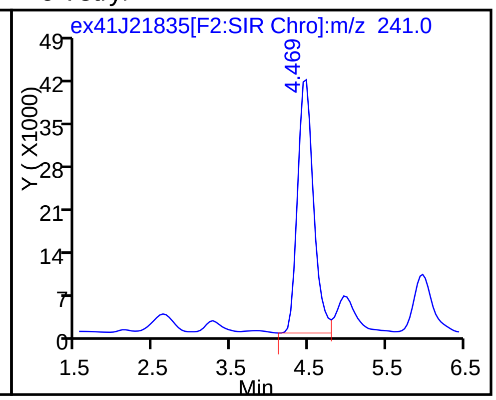
4 RDX



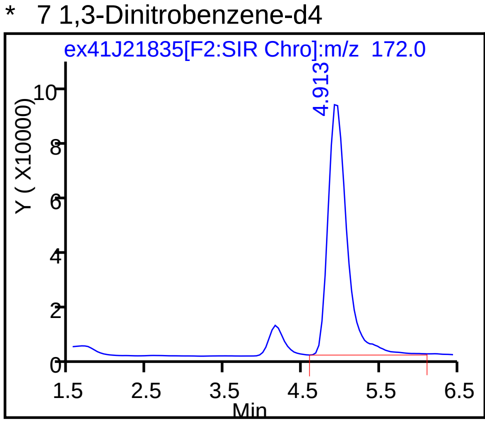
5 1,3,5-Trinitrobenzene



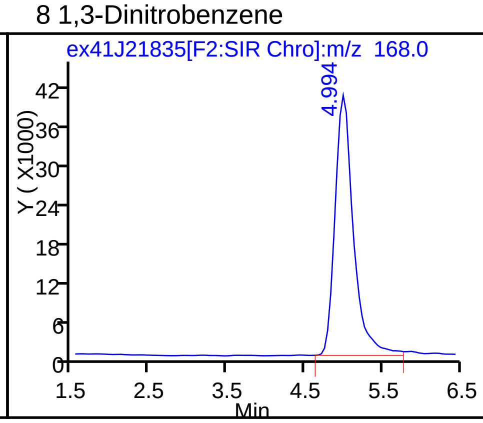
6 Tetryl



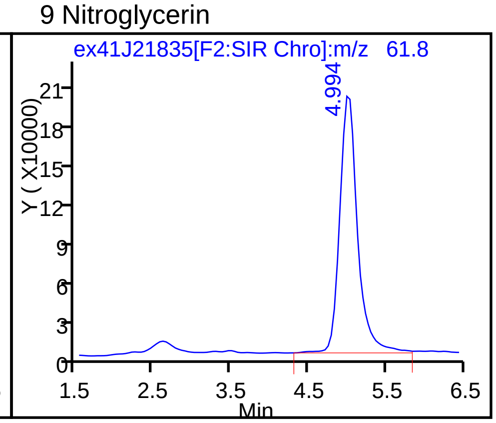
* 7 1,3-Dinitrobenzene-d4



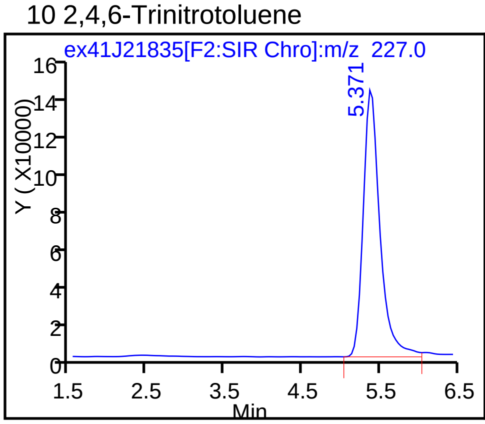
8 1,3-Dinitrobenzene



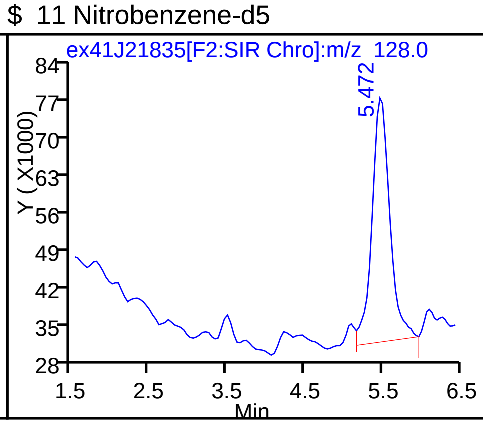
9 Nitroglycerin



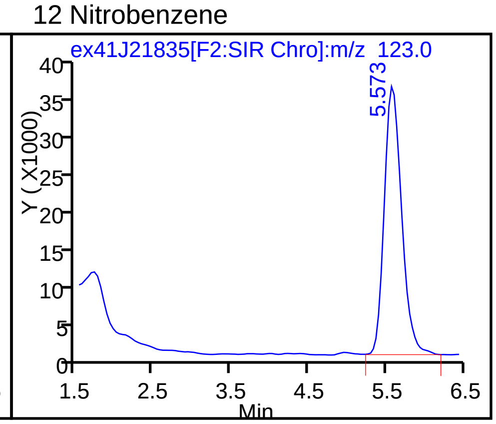
10 2,4,6-Trinitrotoluene



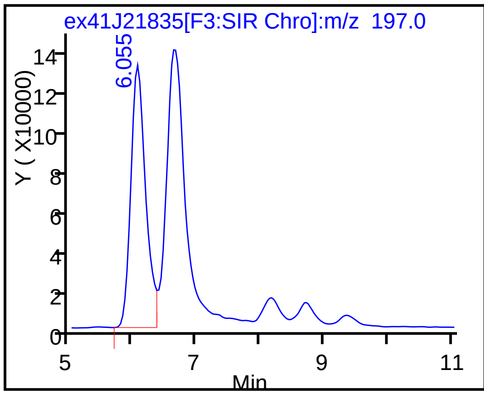
$ 11 Nitrobenzene-d5



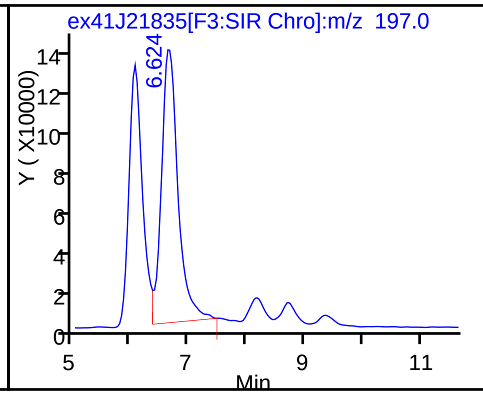
12 Nitrobenzene



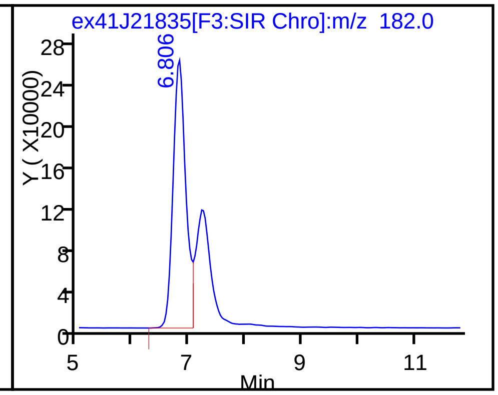
14 4-Amino-2,6-dinitrotoluene



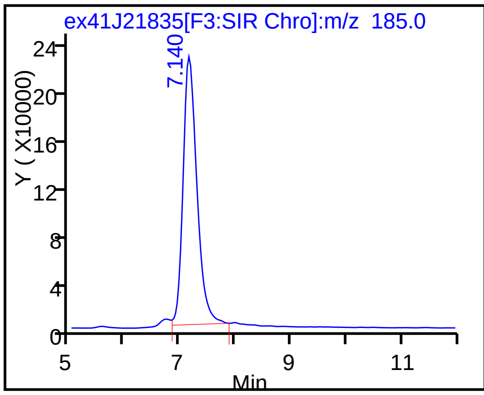
16 2-Amino-4,6-dinitrotoluene



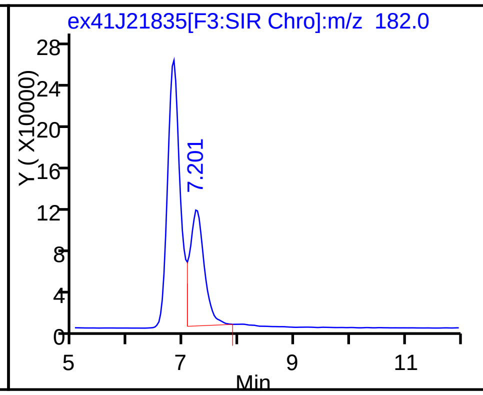
17 2,6-Dinitrotoluene



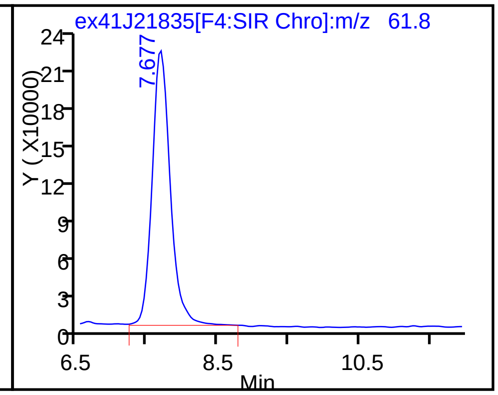
* 18 2,4-dinitrotoluene-d3



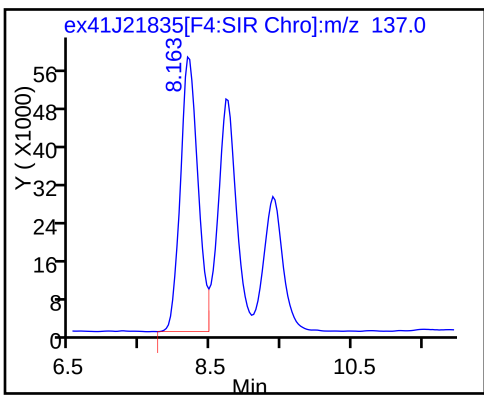
19 2,4-Dinitrotoluene



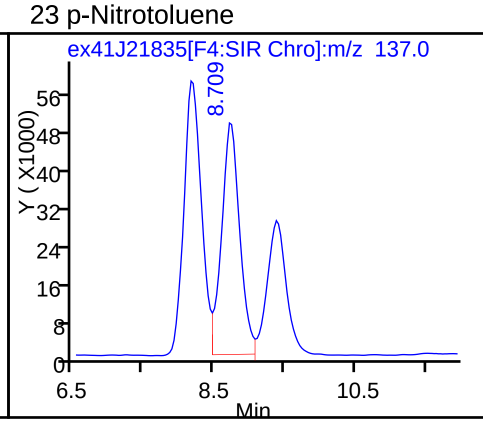
20 PETN



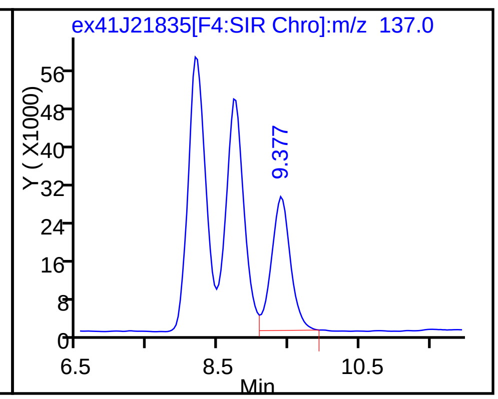
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-93507/2-A

Matrix: Solid   Lab File ID: ex41J21836.d

Analysis Method: 8321B   Date Collected:

Extraction Method: 8330B   Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.78(g)   Date Analyzed: 11/04/2011 07:23

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94725   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.366		0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.371		0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.231		0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.414		0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.403		0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.473		0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.442		0.093	0.012	0.0053
99-08-1	3-Nitrotoluene	0.475		0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.473		0.093	0.012	0.0047
99-99-0	4-Nitrotoluene	0.456		0.093	0.023	0.010
2691-41-0	HMX	0.335		0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.344		0.093	0.012	0.010
55-63-0	Nitroglycerin	0.336		0.093	0.012	0.0097
78-11-5	PETN	0.453		0.093	0.012	0.0048
121-82-4	RDX	0.375		0.093	0.012	0.0040
479-45-8	Tetryl	0.242		0.093	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	110		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21836.d		
Lims ID:	LCS 280-93507/2-A	Client ID:	
Inject. Date:	04-Nov-2011 07:23:56	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS 280-93507/2-A rr 280-0002711-087		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	48
Lims Batch ID:	94725	Lims Sample ID:	87
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 08:41:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	441985	90.3			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		546060	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1826604	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	703361	101.1			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	655634	98.7			
6 Tetryl										
2	241.0	4.429	4.469	-0.040	0.901	499773	65.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.954	-0.041		1445593	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.016	628684	100.1			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	3391164	90.5			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	1719836	62.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	777805	109.1			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	526826	92.8			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.848	2402099	127.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.654	-0.030	0.928	2961871	127.6			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.806	-0.030	0.949	4568919	108.5			

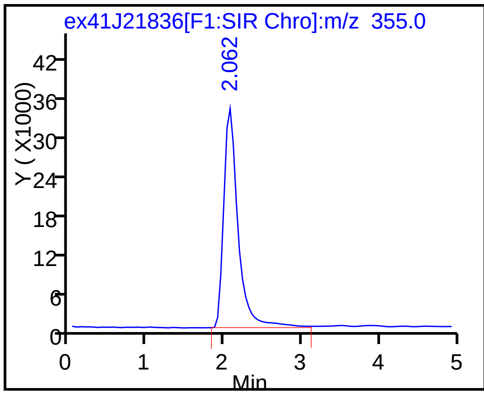
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.170	-0.030		3957692	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.201	0.000	1.009	2256999	111.7			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	3781797	122.1			
22 o-Nitrotoluene										
4	137.0	8.193	8.193	0.000	1.000	1002532	119.1			
23 p-Nitrotoluene										
4	137.0	8.709	8.739	-0.030	1.000	923172	122.9			
24 m-Nitrotoluene										
4	137.0	9.347	9.377	-0.030	1.000	593107	128.0			

Report Date: 04-Nov-2011 08:41:25 Chrom Revision: 1.2 13-Jul-2011 10:43:06

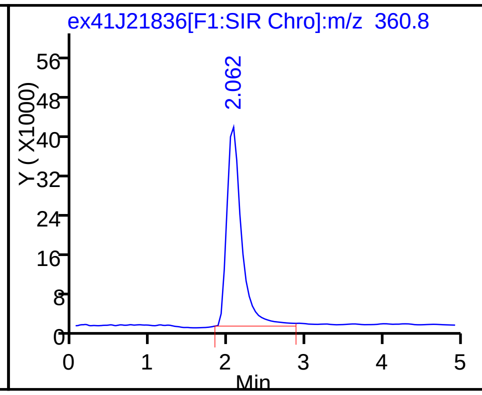
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21836.d

Injection Date:	04-Nov-2011 07:23:56	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94725	Lims Sample ID:	87
Operator ID:		Injection Vol:	40.00 ul

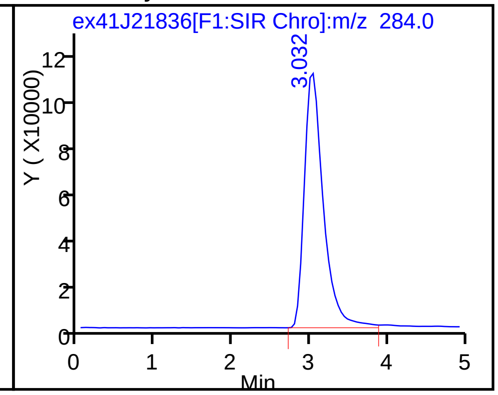
2 HMX



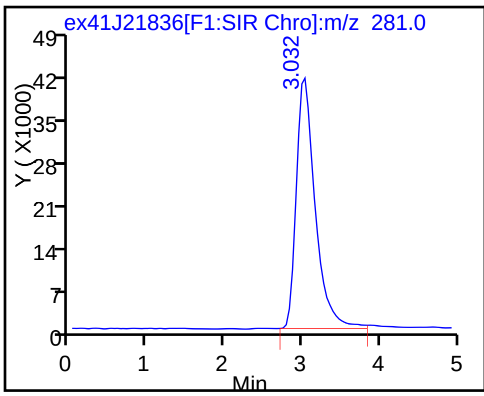
* 1 HMX-13C4



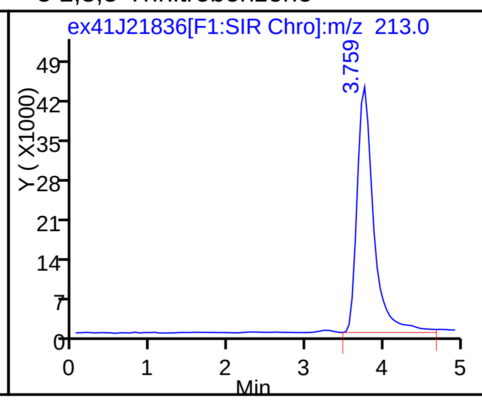
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



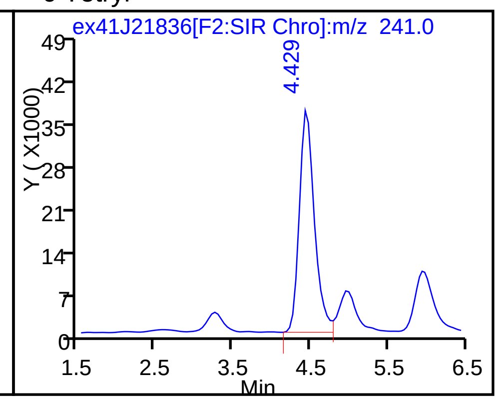
4 RDX



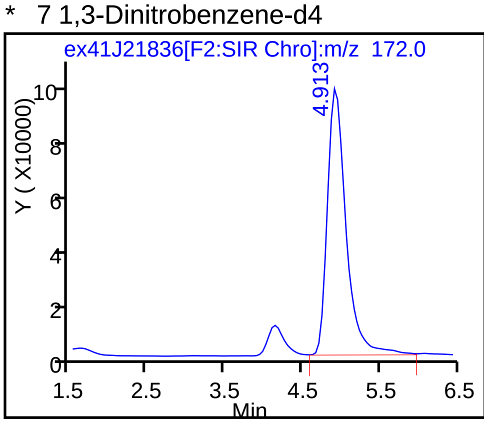
5 1,3,5-Trinitrobenzene



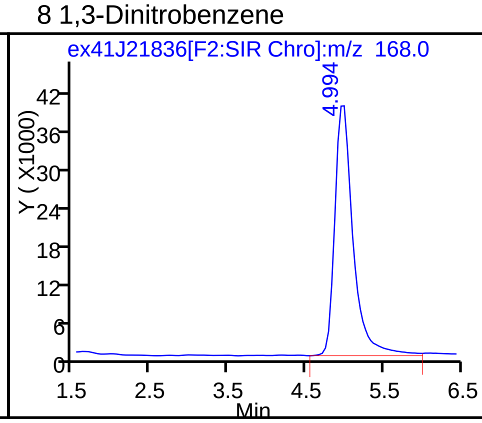
6 Tetryl



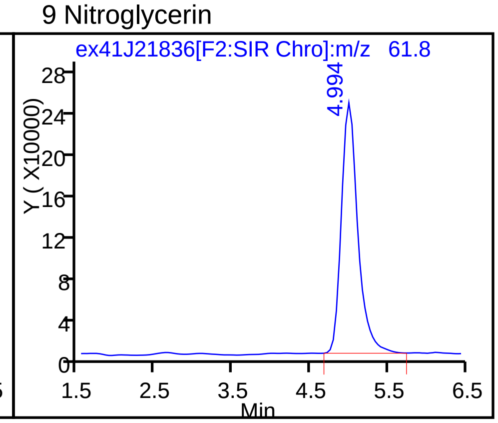
* 7 1,3-Dinitrobenzene-d4



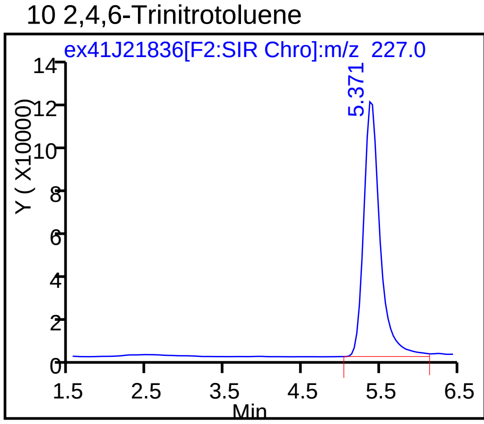
8 1,3-Dinitrobenzene



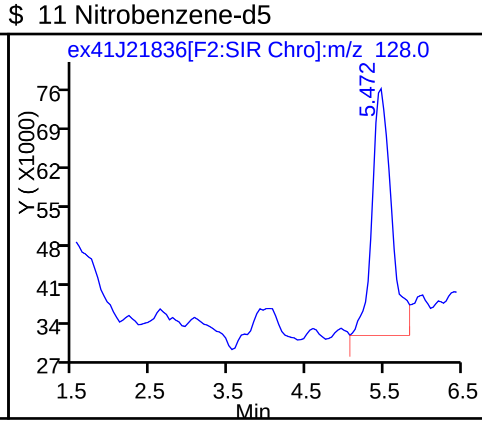
9 Nitroglycerin



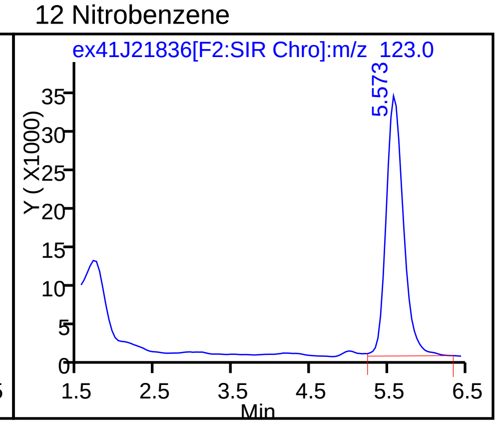
10 2,4,6-Trinitrotoluene



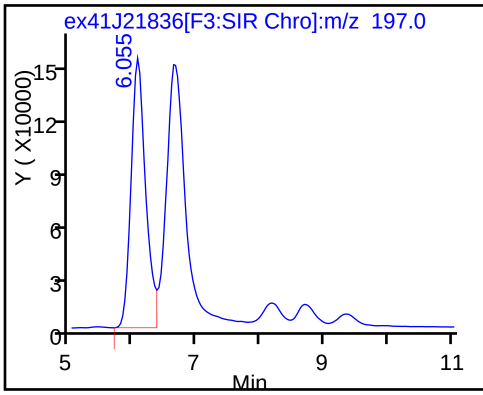
$ 11 Nitrobenzene-d5



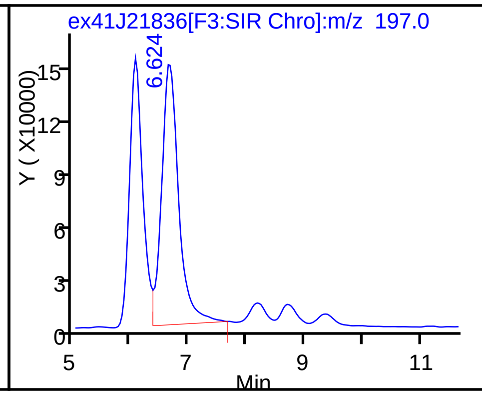
12 Nitrobenzene



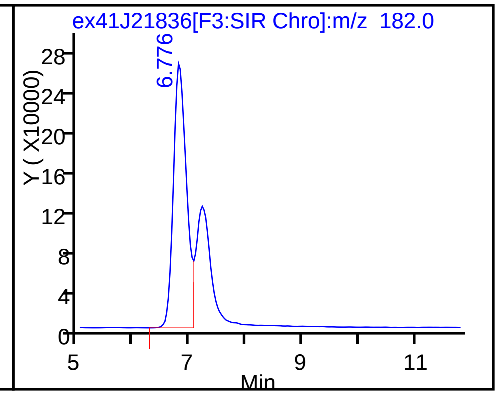
14 4-Amino-2,6-dinitrotoluene



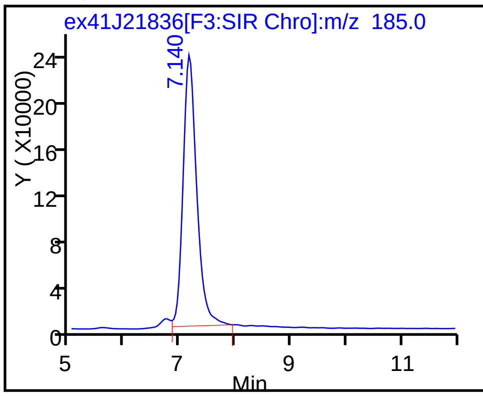
16 2-Amino-4,6-dinitrotoluene



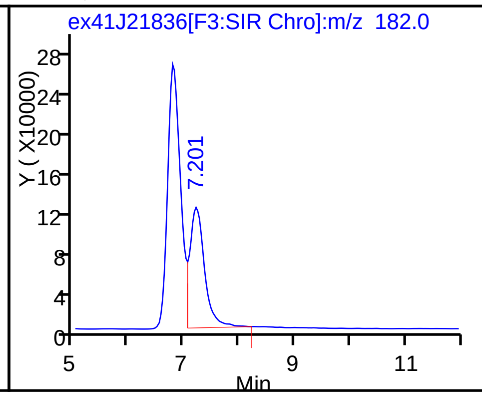
17 2,6-Dinitrotoluene



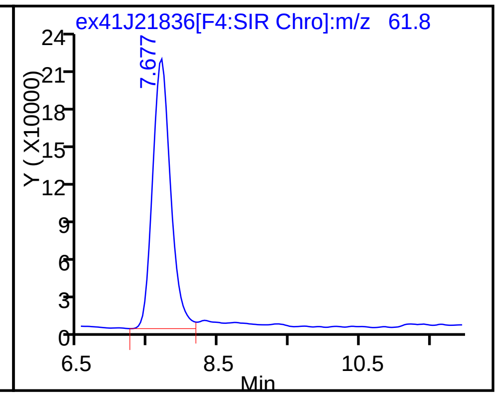
* 18 2,4-dinitrotoluene-d3



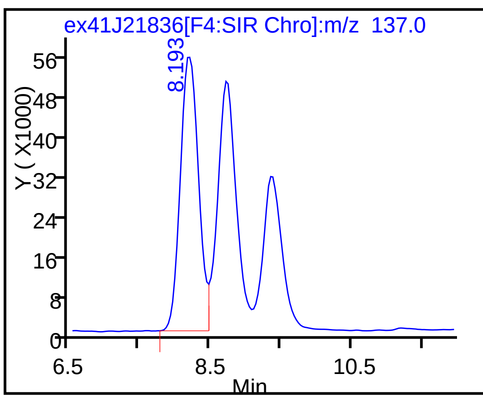
19 2,4-Dinitrotoluene



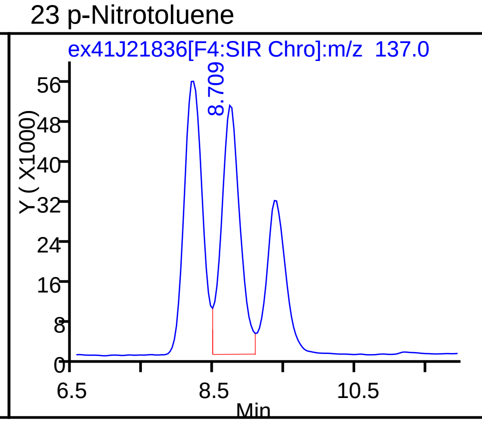
20 PETN



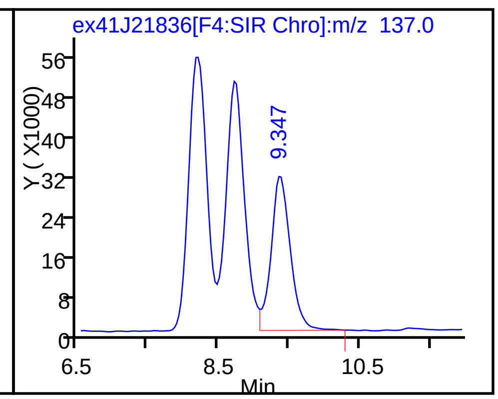
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver　　Job No.: 280-21902-1

SDG No.:

Client Sample ID:　　Lab Sample ID: LCS 280-93548/2-A

Matrix: Solid　　Lab File ID: ex41J21642.d

Analysis Method: 8321B　　Date Collected:

Extraction Method: 8330B　　Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.07(g)　　Date Analyzed: 11/02/2011 05:55

Con. Extract Vol.: 40(mL)　　Dilution Factor: 1

Injection Volume: 40(uL)　　GC Column: IonPac　　ID: 2(mm)

% Moisture:　　GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252　　Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.305		0.099	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.425		0.099	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.244		0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.416		0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.369		0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.485		0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.396		0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.392		0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.420		0.099	0.012	0.0051
99-99-0	4-Nitrotoluene	0.385		0.099	0.025	0.011
2691-41-0	HMX	0.369		0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.378		0.099	0.012	0.011
55-63-0	Nitroglycerin	0.413		0.099	0.012	0.010
78-11-5	PETN	0.486		0.099	0.012	0.0051
121-82-4	RDX	0.417		0.099	0.012	0.0043
479-45-8	Tetryl	0.222		0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	90		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21642.d		
Lims ID:	LCS 280-93548/2-A	Client ID:	
Inject. Date:	02-Nov-2011 05:55:53	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS 280-93548/2-A 280-0002689-166		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	100
Lims Batch ID:	94252	Lims Sample ID:	166
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

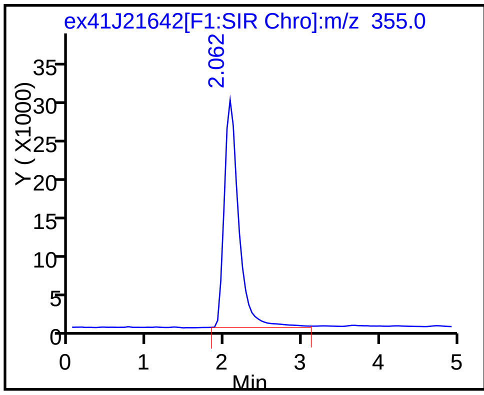
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	393442	92.8			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		472885	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1816603	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	726863	105.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	479609	76.7			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.910	403621	55.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1370999	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	638025	107.0			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	3700153	103.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.439	-0.034	1.091	1606461	61.4			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	605255	89.4			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	511975	95.1			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.122	-0.034	0.845	1886342	105.8			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	2682941	122.0			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.867	-0.030	0.949	3707225	92.9			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		3749162	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.262	-0.001	1.008	2003812	104.7			
20 PETN										
4	61.8	7.737	7.768	-0.031	1.000	3589034	122.3			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	796154	99.8			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	689357	97.0			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	433199	98.6			

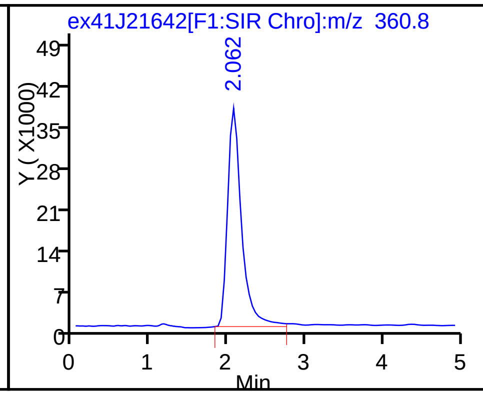
Report Date: 02-Nov-2011 10:22:25 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21642.d

Injection Date:	02-Nov-2011 05:55:53	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	166
Operator ID:		Injection Vol:	40.00 ul

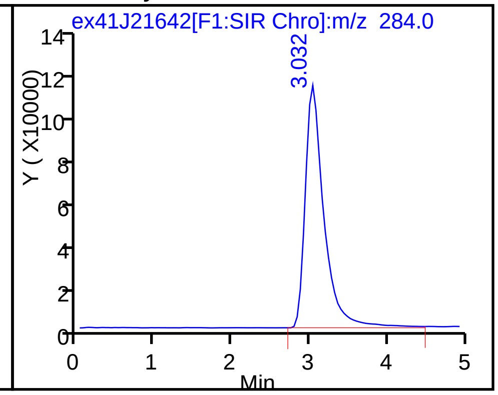
2 HMX



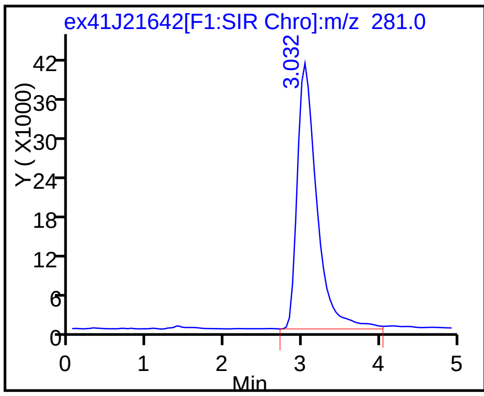
* 1 HMX-13C4



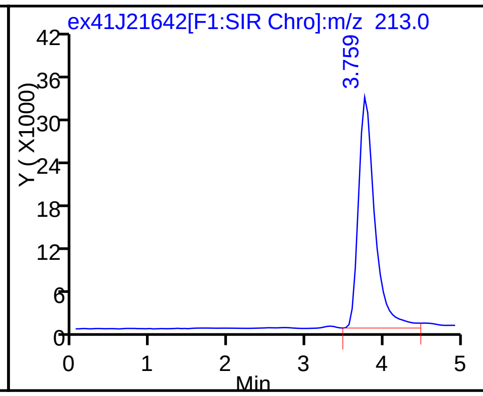
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



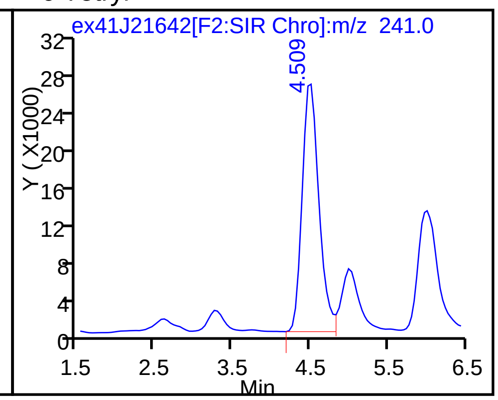
4 RDX



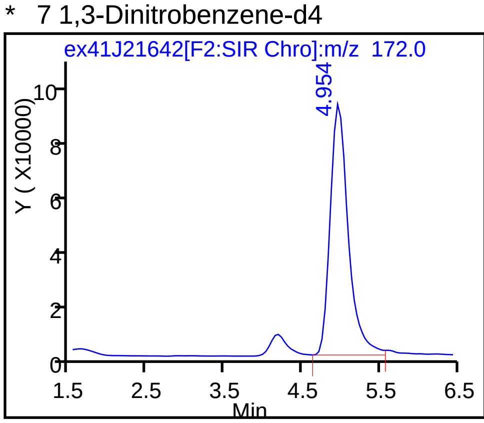
5 1,3,5-Trinitrobenzene



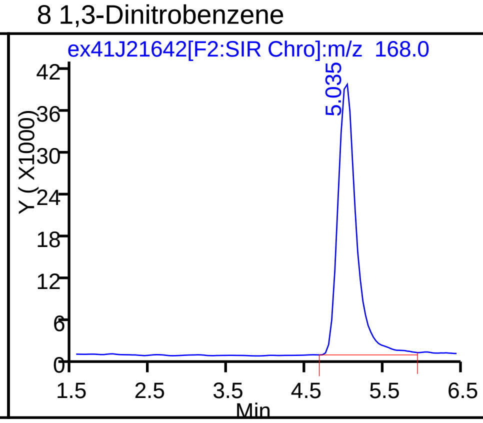
6 Tetryl



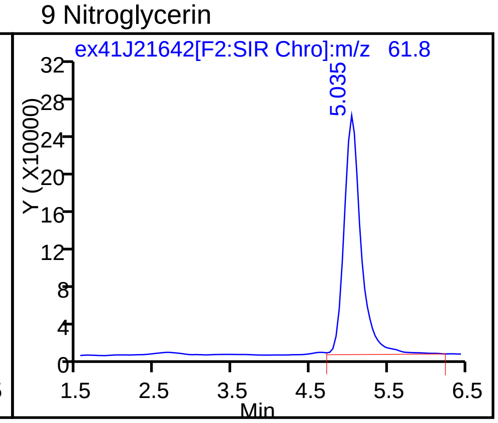
* 7 1,3-Dinitrobenzene-d4



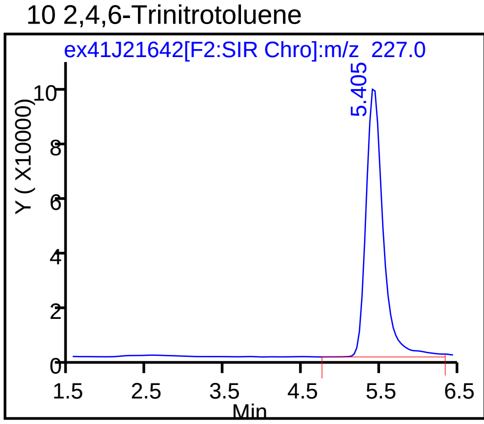
8 1,3-Dinitrobenzene



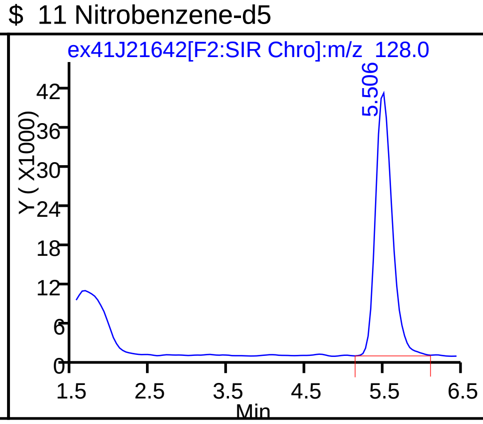
9 Nitroglycerin



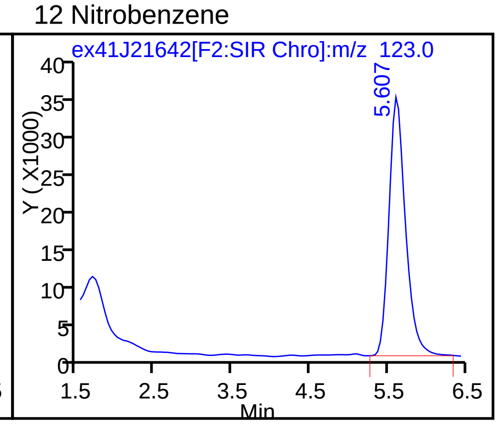
10 2,4,6-Trinitrotoluene



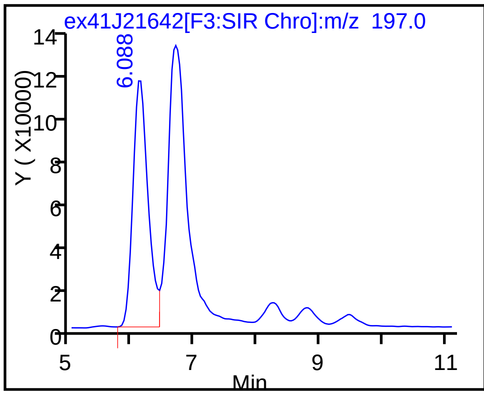
$ 11 Nitrobenzene-d5



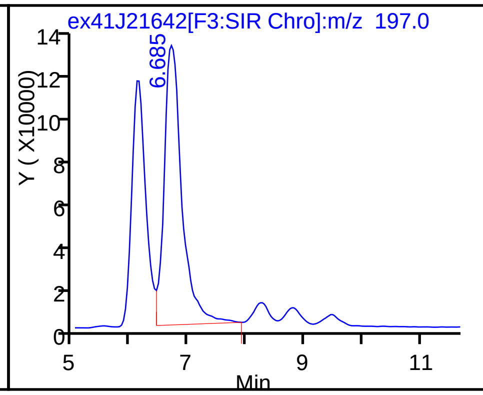
12 Nitrobenzene



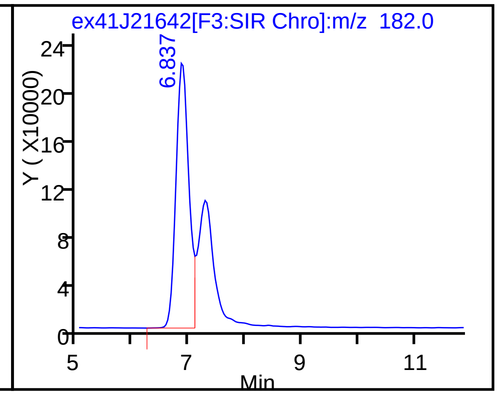
14 4-Amino-2,6-dinitrotoluene



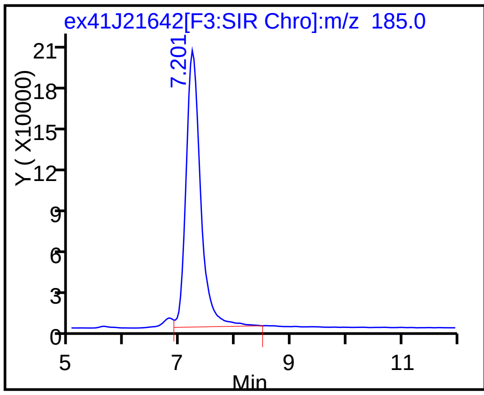
16 2-Amino-4,6-dinitrotoluene



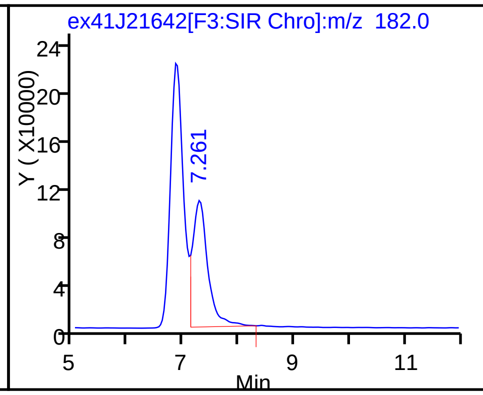
17 2,6-Dinitrotoluene



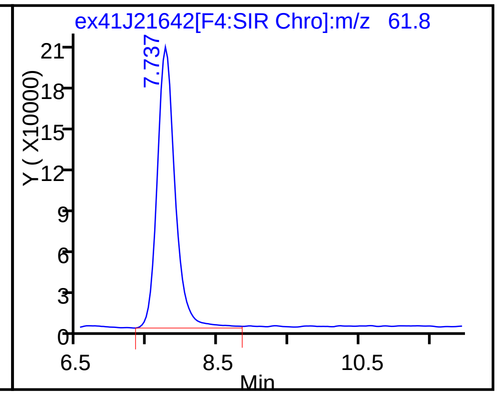
* 18 2,4-dinitrotoluene-d3



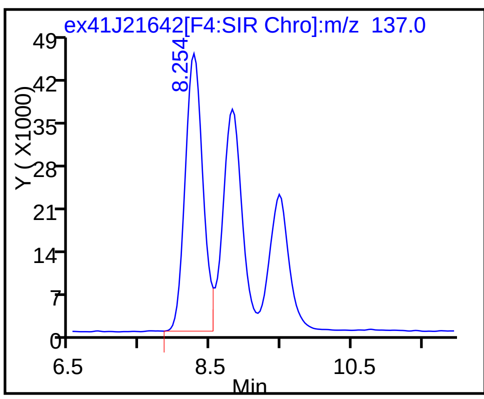
19 2,4-Dinitrotoluene



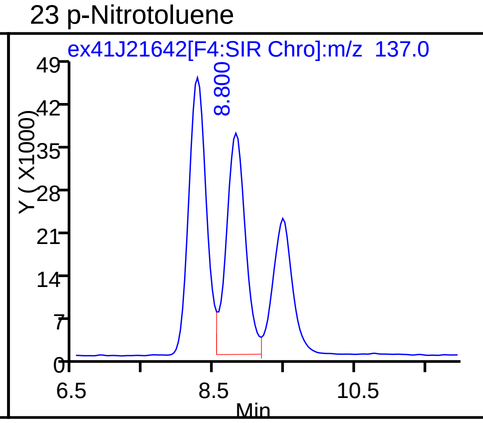
20 PETN



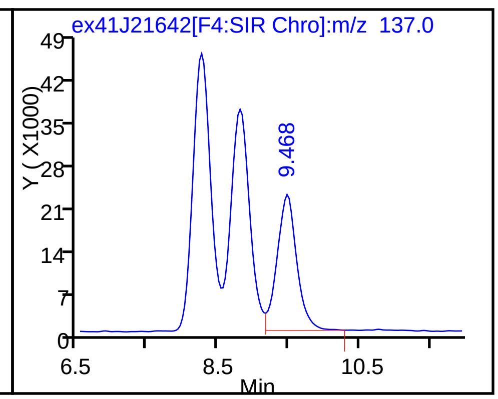
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSSRM 280-92116/2-B

Matrix: Solid | Lab File ID: ex41J21644.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 8330B | Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.18(g) | Date Analyzed: 11/02/2011 06:23

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.578		0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.610		0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.610		0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.581		0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.536		0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.547		0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.563		0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.512		0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.518		0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.530		0.098	0.025	0.011
2691-41-0	HMX	0.568		0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.496		0.098	0.012	0.011
55-63-0	Nitroglycerin	0.549		0.098	0.012	0.010
78-11-5	PETN	0.634		0.098	0.012	0.0051
121-82-4	RDX	0.517		0.098	0.012	0.0042

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21644.d		
Lims ID:	LCSSRM 280-92116/2-B	Client ID:	
Inject. Date:	02-Nov-2011 06:23:01	Dil. Factor:	1.0000
Sample Type:	LCSSRM		
Sample ID:	LCSSRM 280-92116/2-B 280-0002689-168		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	102
Lims Batch ID:	94252	Lims Sample ID:	168
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	615423	144.6			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		473445	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1912642	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	957586	131.5			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	855892	147.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1256065	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	5.035	-0.041	1.008	848596	155.2			
9 Nitroglycerin										
2	61.8	5.034	5.035	-0.001	1.016	4570168	139.7			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.439	-0.034	1.091	3744970	155.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	522592	84.2			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	623202	126.3			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.850	2540844	131.8			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	3304921	139.1			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	5884815	136.5			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4051097	250.0			

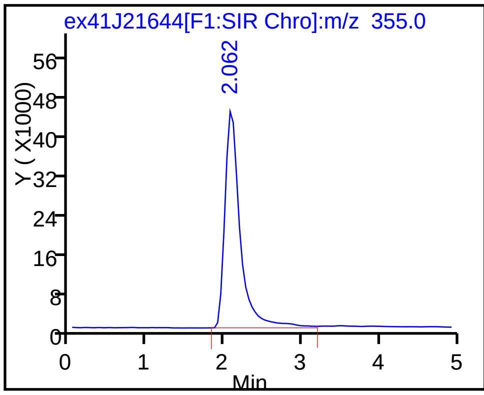
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.262	-0.001	1.008	3060001	147.9			
20 PETN										
4	61.8	7.737	7.768	-0.031	1.000	5092309	161.3			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	1235633	143.4			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	1037021	134.9			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	618341	130.3			

Report Date: 02-Nov-2011 10:22:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06

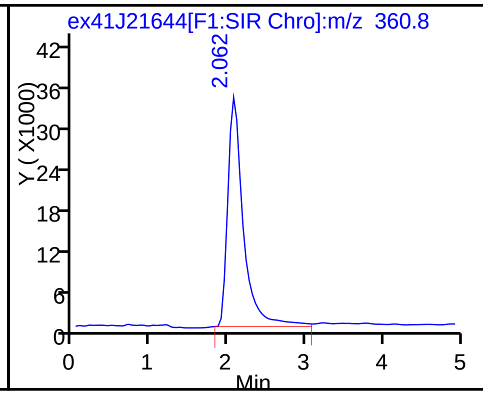
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21644.d

Injection Date:	02-Nov-2011 06:23:01	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	168
Operator ID:		Injection Vol:	40.00 ul

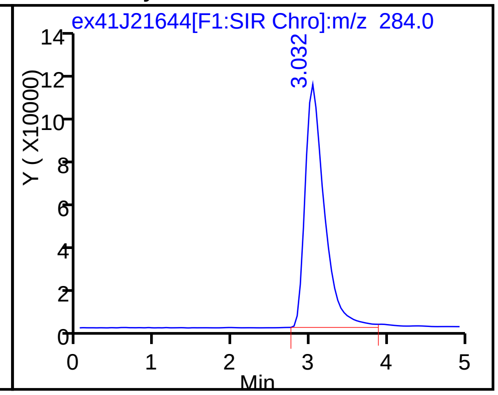
2 HMX



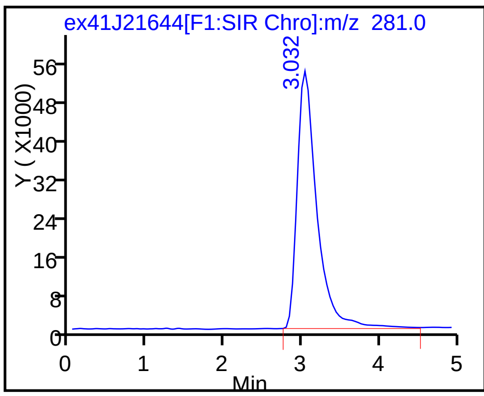
* 1 HMX-13C4



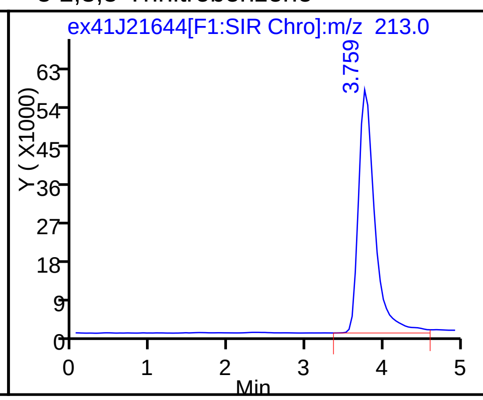
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



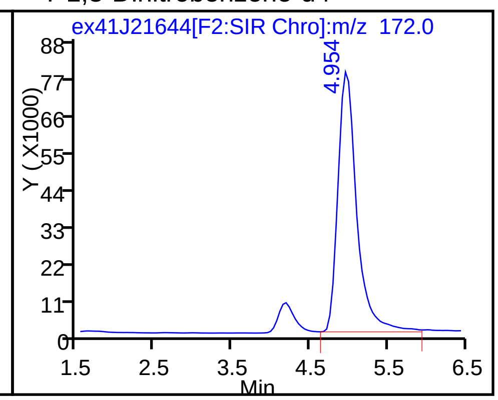
4 RDX



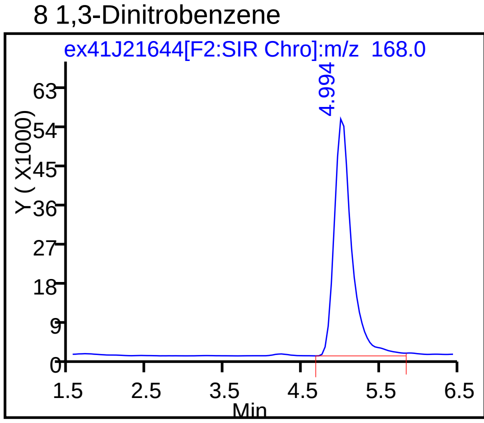
5 1,3,5-Trinitrobenzene



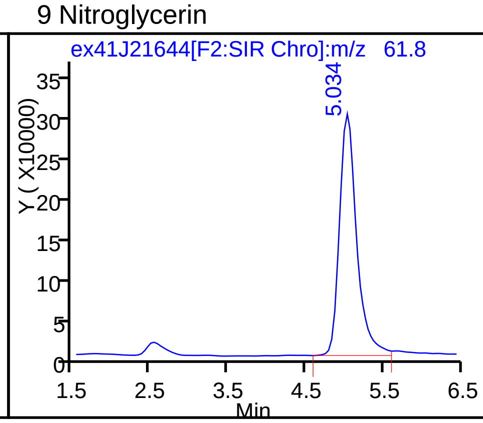
* 7 1,3-Dinitrobenzene-d4



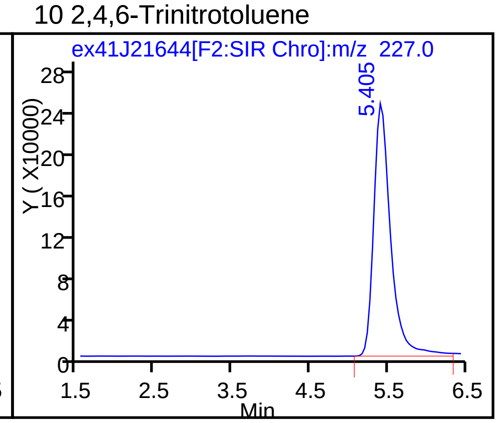
8 1,3-Dinitrobenzene



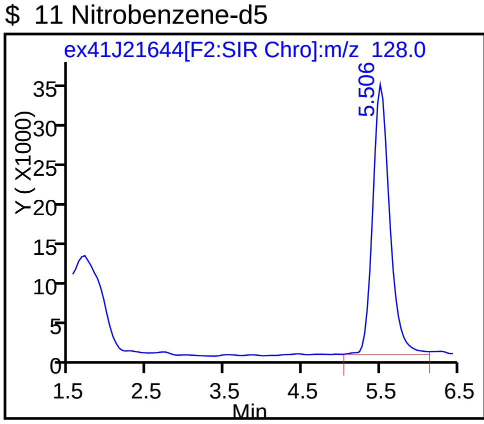
9 Nitroglycerin



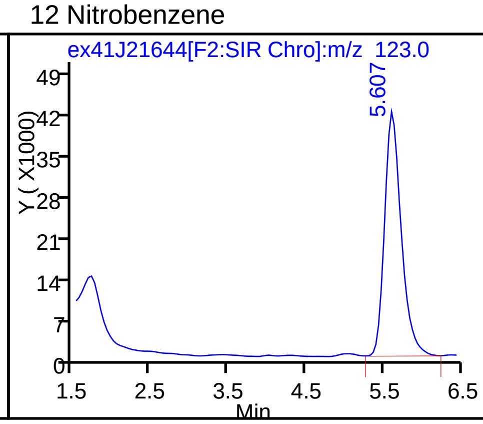
10 2,4,6-Trinitrotoluene



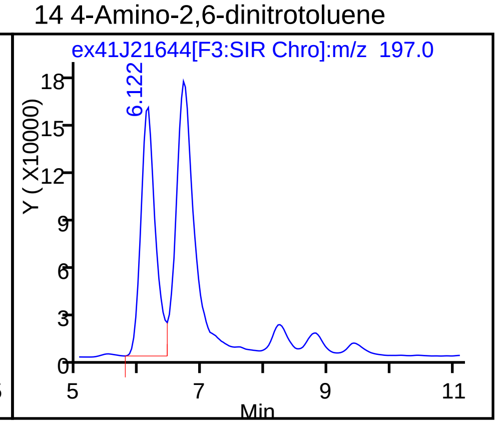
$ 11 Nitrobenzene-d5



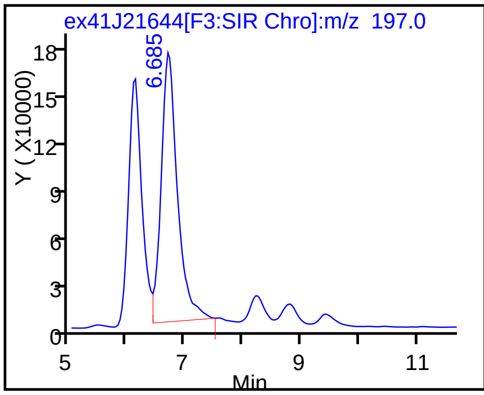
12 Nitrobenzene



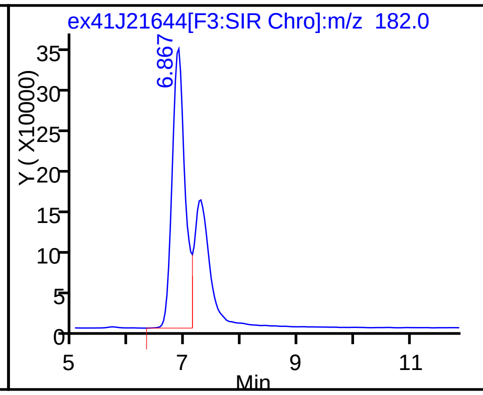
14 4-Amino-2,6-dinitrotoluene



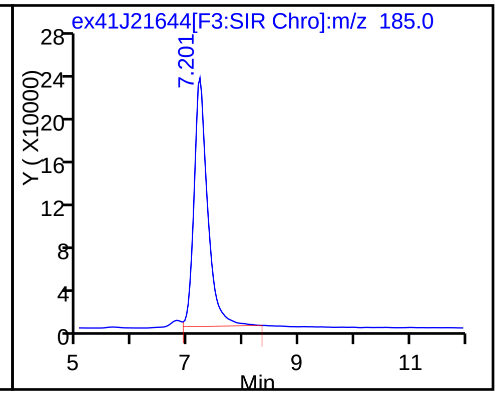
16 2-Amino-4,6-dinitrotoluene



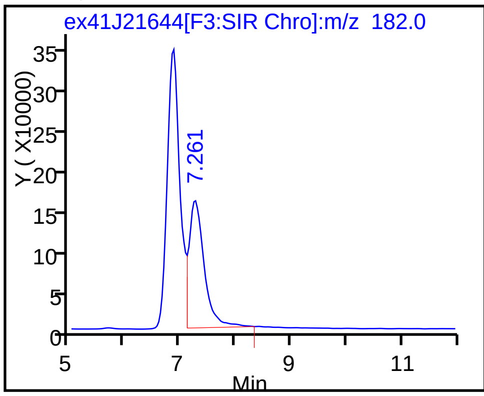
17 2,6-Dinitrotoluene



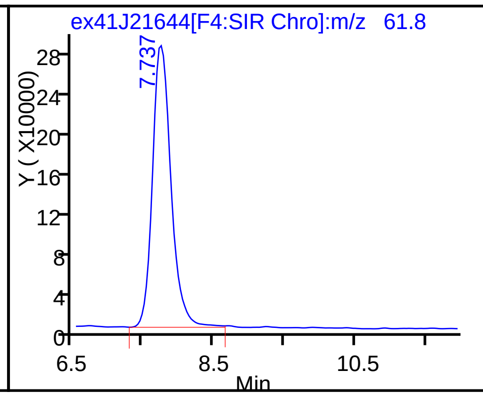
* 18 2,4-dinitrotoluene-d3



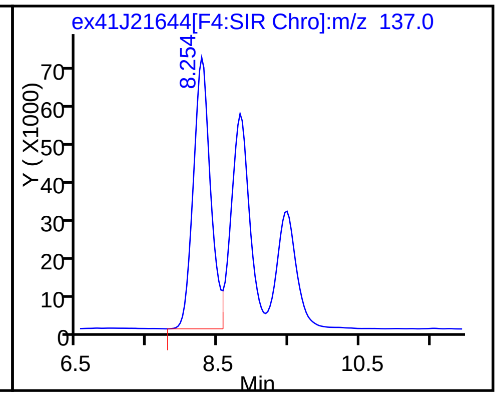
19 2,4-Dinitrotoluene



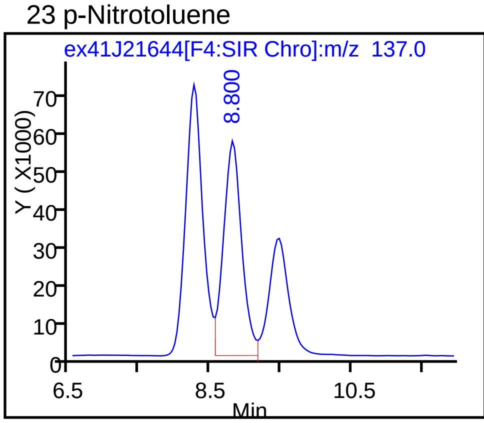
20 PETN



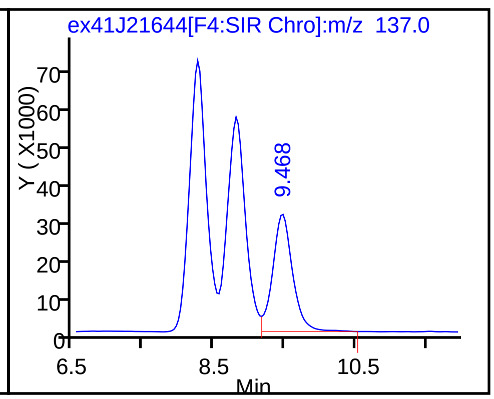
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP11 SD024 MS | Lab Sample ID: 280-21902-7 MS

Matrix: Solid | Lab File ID: ex41J21838.d

Analysis Method: 8321B | Date Collected: 10/19/2011 11:40

Extraction Method: 8330B | Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.39(g) | Date Analyzed: 11/04/2011 07:51

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94725 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.343		0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.385		0.096	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.246		0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.382		0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.356		0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.441		0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.385		0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.363		0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.404		0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.359		0.096	0.024	0.011
2691-41-0	HMX	0.320		0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.384		0.096	0.012	0.010
55-63-0	Nitroglycerin	0.316		0.096	0.012	0.010
78-11-5	PETN	0.398		0.096	0.012	0.0050
121-82-4	RDX	0.385		0.096	0.012	0.0042
479-45-8	Tetryl	0.236		0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	103		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21838.d		
Lims ID:	280-21902-A-7-D MS	Client ID:	
Inject. Date:	04-Nov-2011 07:51:28	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	280-21902-A-7-D MS 280-0002711-089		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	33
Lims Batch ID:	94725	Lims Sample ID:	89
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 08:41:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	367636	83.1			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		493780	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1839714	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	700640	99.9			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	633301	89.2			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	501571	61.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1548248	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	672018	99.9			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.008	3296869	82.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.084	1887468	63.9			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	780270	102.2			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.125	606192	99.7			
13 3,4-Dinitrotoluene										
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.844	2360292	105.0			
15 2,3-Dinitrotoluene										
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.928	3174359	114.5			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.949	4652488	92.6			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.170	0.000		4723688	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.201	0.000	1.004	2395230	99.3			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	3837077	103.5			
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0	8.193	8.193	0.000	1.000	1006232	100.1			
23 p-Nitrotoluene										
4	137.0	8.739	8.739	0.000	1.000	835338	93.3			
24 m-Nitrotoluene										
4	137.0	9.408	9.377	0.031	1.000	521990	94.3			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

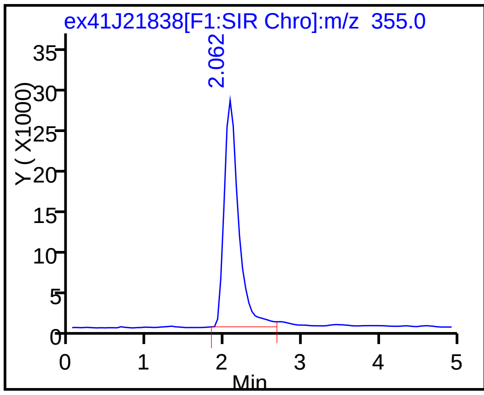
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 08:41:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06

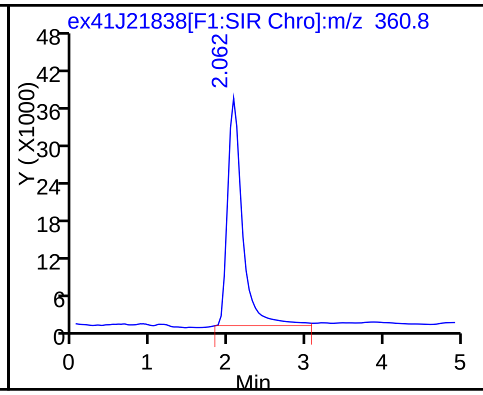
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21838.d

Injection Date:	04-Nov-2011 07:51:28	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94725	Lims Sample ID:	89
Operator ID:		Injection Vol:	40.00 ul

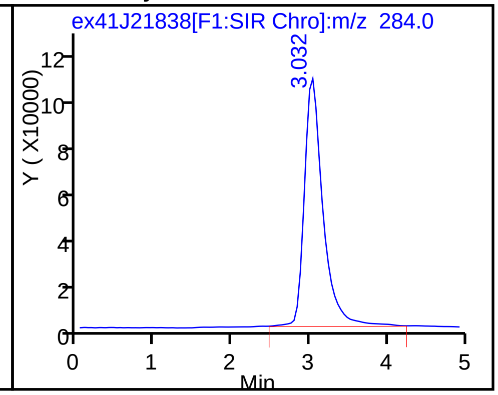
2 HMX



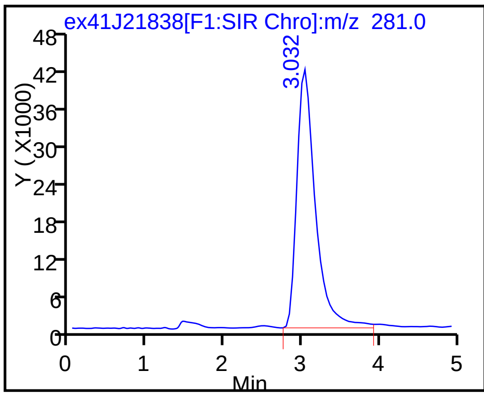
* 1 HMX-13C4



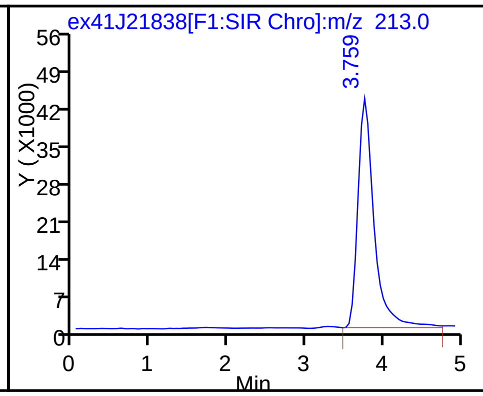
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



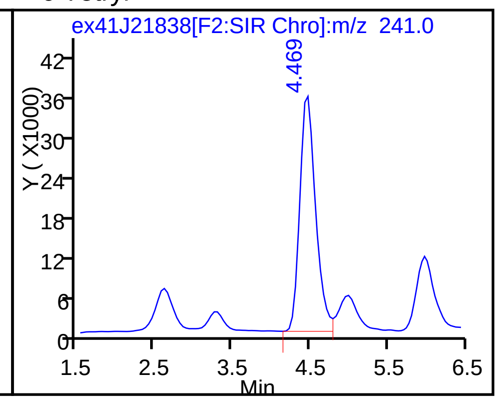
4 RDX



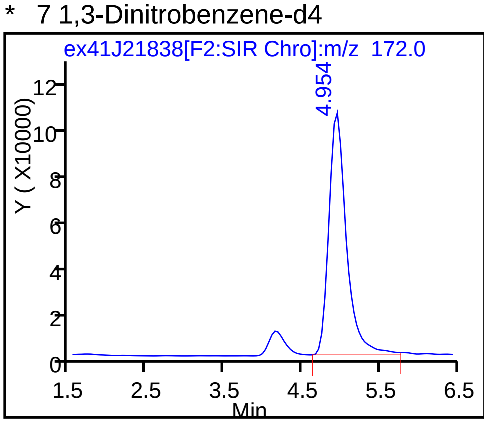
5 1,3,5-Trinitrobenzene



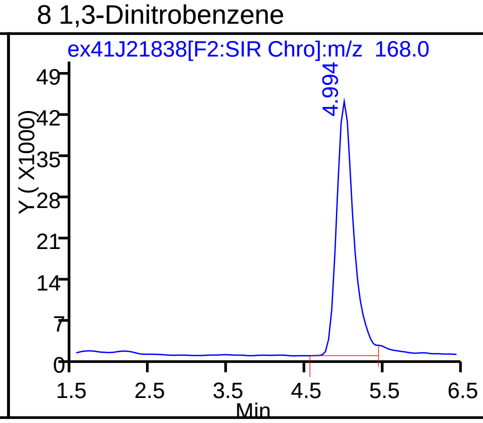
6 Tetryl



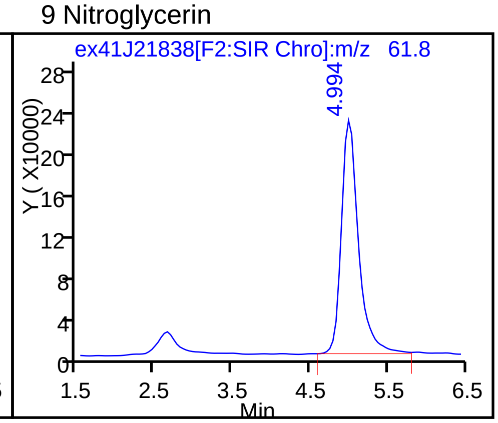
* 7 1,3-Dinitrobenzene-d4



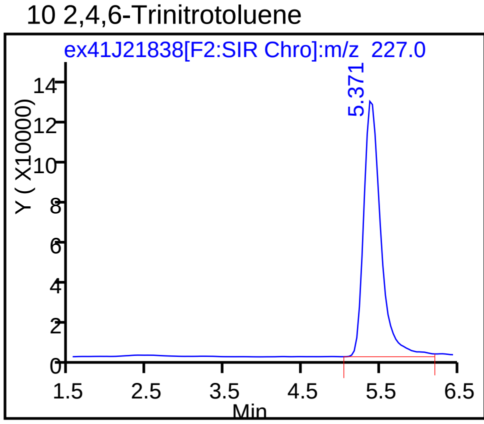
8 1,3-Dinitrobenzene



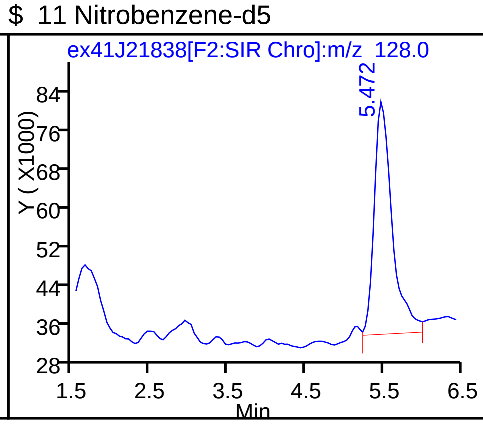
9 Nitroglycerin



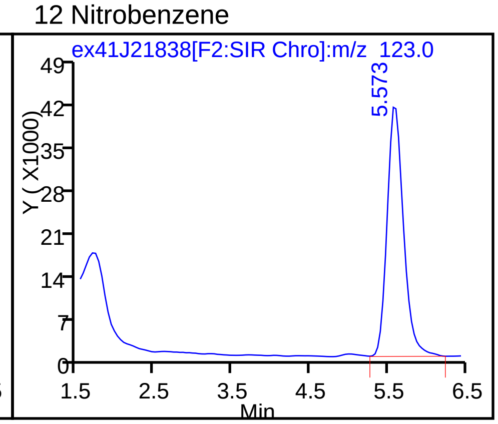
10 2,4,6-Trinitrotoluene



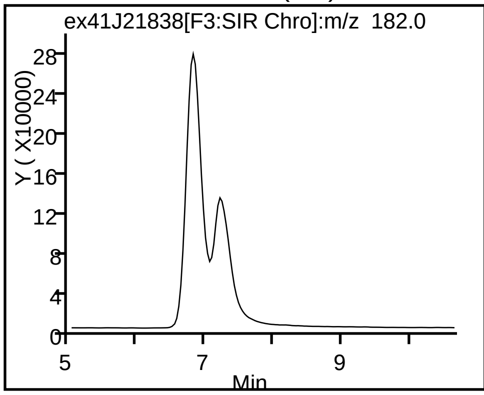
$ 11 Nitrobenzene-d5



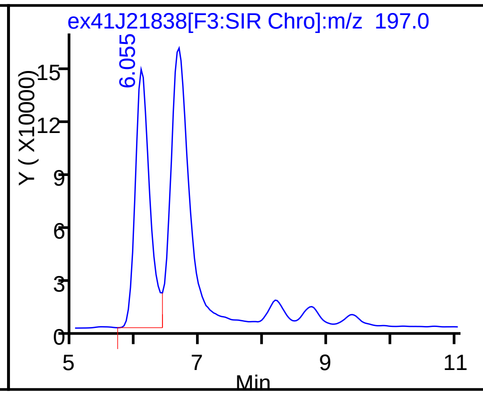
12 Nitrobenzene



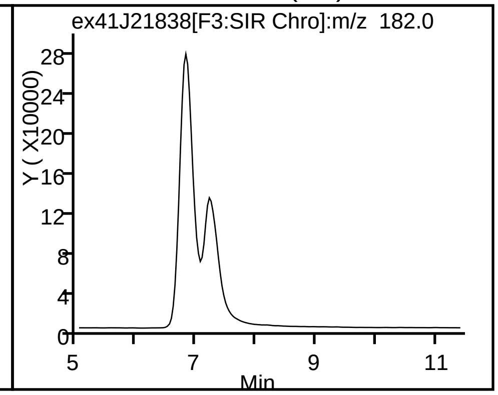
13 3,4-Dinitrotoluene (ND)



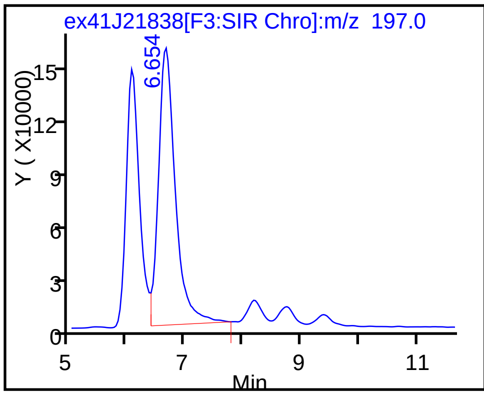
14 4-Amino-2,6-dinitrotoluene



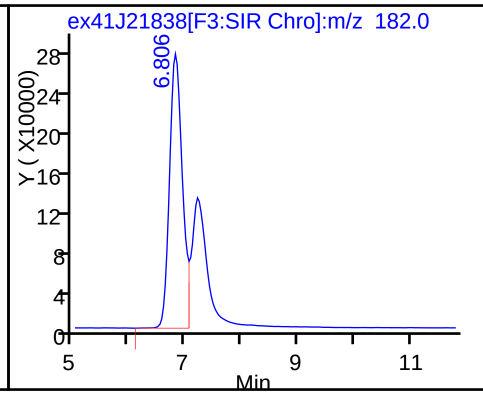
15 2,3-Dinitrotoluene (ND)



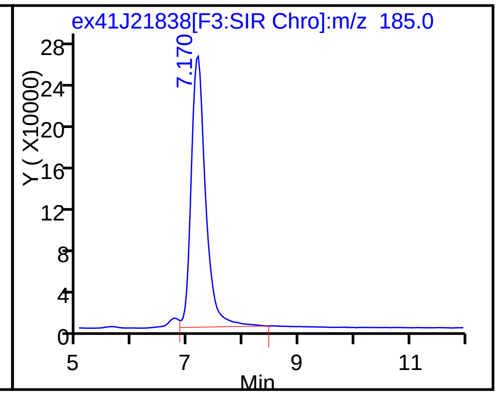
16 2-Amino-4,6-dinitrotoluene



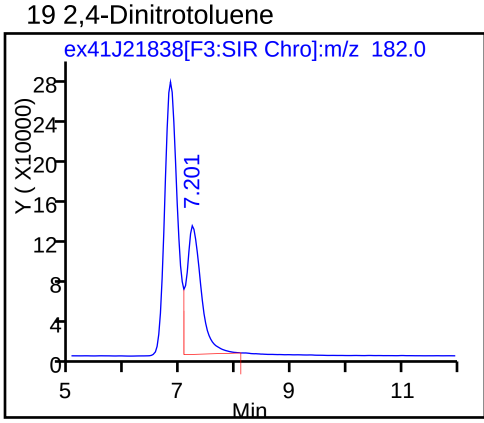
17 2,6-Dinitrotoluene



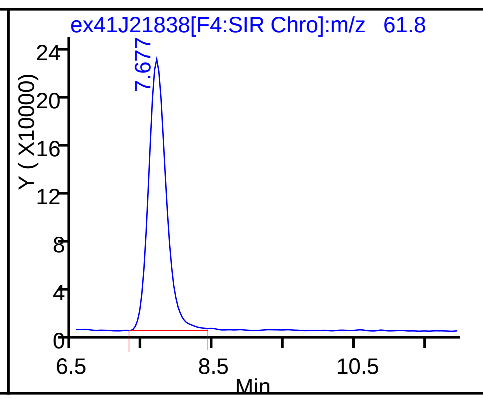
* 18 2,4-dinitrotoluene-d3



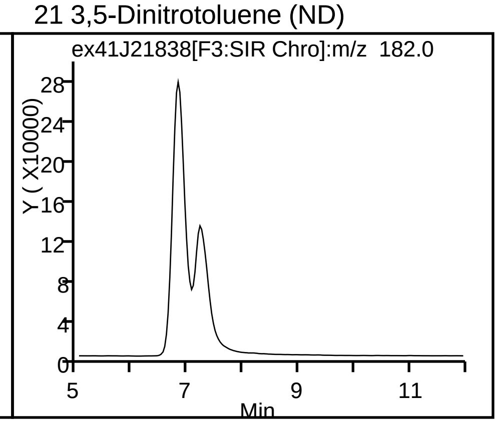
19 2,4-Dinitrotoluene



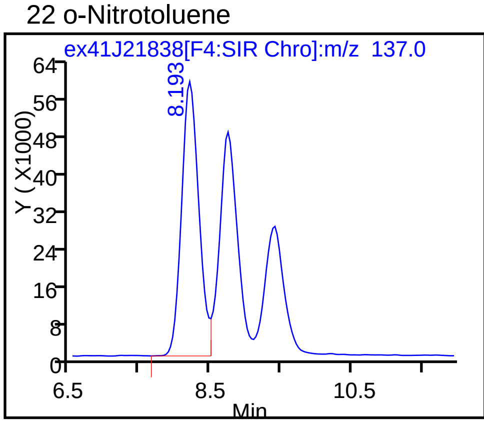
20 PETN



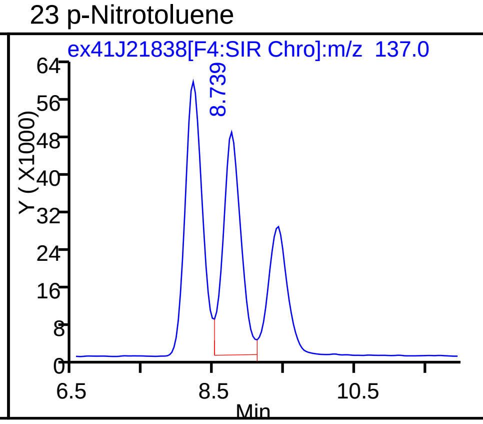
21 3,5-Dinitrotoluene (ND)



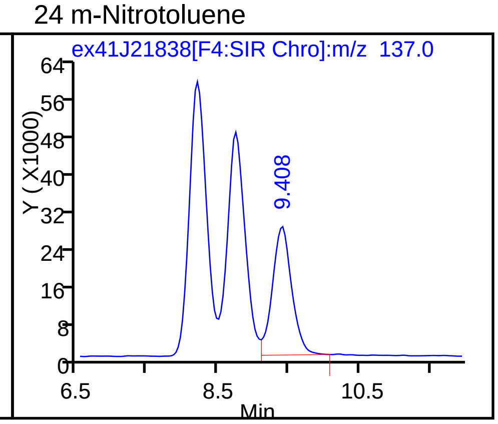
22 o-Nitrotoluene



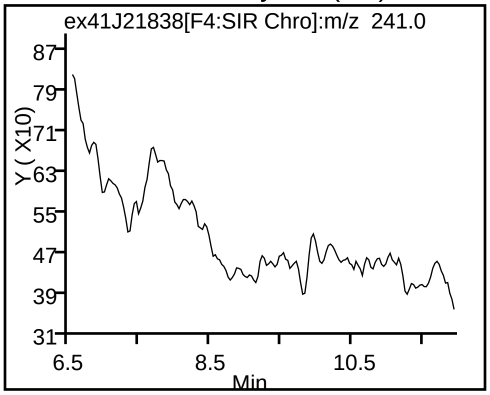
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP01 SB130 MS Lab Sample ID: 280-21902-22 MS

Matrix: Solid Lab File ID: ex41J21755.d

Analysis Method: 8321B Date Collected: 10/19/2011 13:35

Extraction Method: 8330B Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.35(g) Date Analyzed: 11/03/2011 12:57

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.310		0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.357		0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.257		0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.347		0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.329		0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.393		0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.344		0.097	0.012	0.0055
99-08-1	3-Nitrotoluene	0.342		0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.325		0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.329		0.097	0.024	0.011
2691-41-0	HMX	0.327		0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.327		0.097	0.012	0.010
55-63-0	Nitroglycerin	0.325		0.097	0.012	0.010
78-11-5	PETN	0.381		0.097	0.012	0.0050
121-82-4	RDX	0.362		0.097	0.012	0.0042
479-45-8	Tetryl	0.239		0.097	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21755.d		
Lims ID:	280-21902-A-22-D MS	Client ID:	
Inject. Date:	03-Nov-2011 12:57:34	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	280-21902-A-22-D MS 280-0002711-006		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	89
Lims Batch ID:	94610	Lims Sample ID:	6
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	393867	84.6			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		519940	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		1860086	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	663669	93.6			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	535223	80.1			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.894	477724	61.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1461587	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.954	0.040	1.008	586372	92.3			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.008	3189076	84.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.337	0.068	1.091	1859312	66.6			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.105	554924	76.8			
12 Nitrobenzene										
2	123.0	5.607	5.573	0.034	1.132	484751	84.5			
13 3,4-Dinitrotoluene										
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.021	0.034	0.848	1795747	84.0			
15 2,3-Dinitrotoluene										
3	182.0		6.391							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.594	0.060	0.932	2685762	101.8			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.745	0.061	0.953	4069214	85.1			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.110	0.030		4496418	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.170	0.061	1.013	2063719	89.9			
20 PETN										
4	61.8	7.677	7.616	0.061	1.000	3485754	98.7			
21 3,5-Dinitrotoluene										
3	182.0		7.778							
22 o-Nitrotoluene										
4	137.0	8.193	8.132	0.061	1.000	850360	88.9			
23 p-Nitrotoluene										
4	137.0	8.739	8.648	0.091	1.000	724161	85.0			
24 m-Nitrotoluene										
4	137.0	9.377	9.316	0.061	1.000	466742	88.6			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.167							

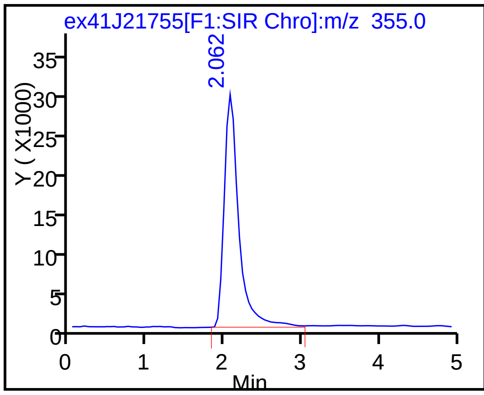
QC Flag Legend

Processing Flags
1 - Missing Peaks

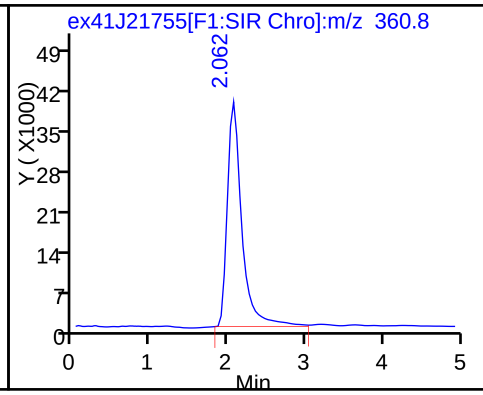
Report Date: 04-Nov-2011 06:46:33 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21755.d

Injection Date:	03-Nov-2011 12:57:34	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	6
Operator ID:		Injection Vol:	40.00 ul

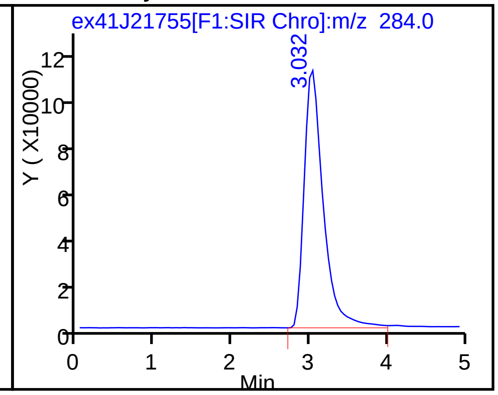
2 HMX



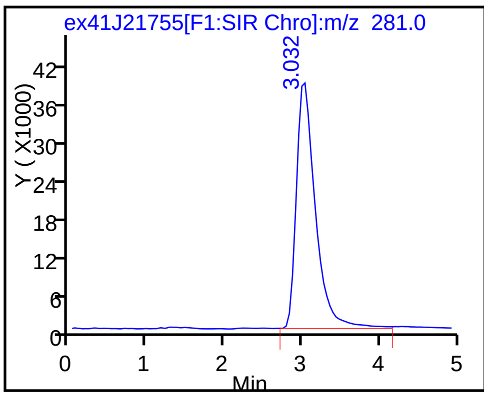
* 1 HMX-13C4



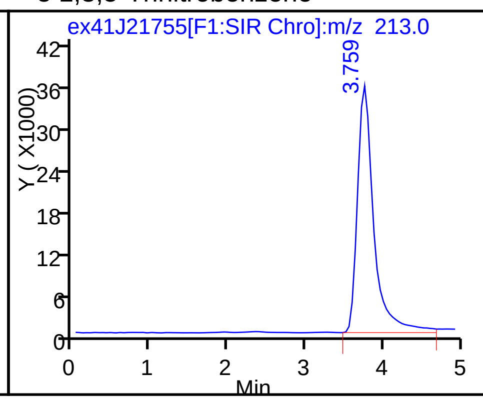
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



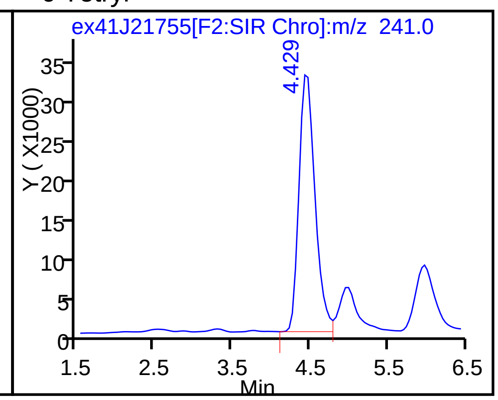
4 RDX



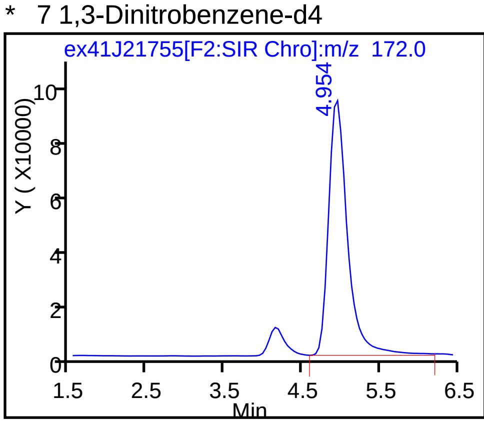
5 1,3,5-Trinitrobenzene



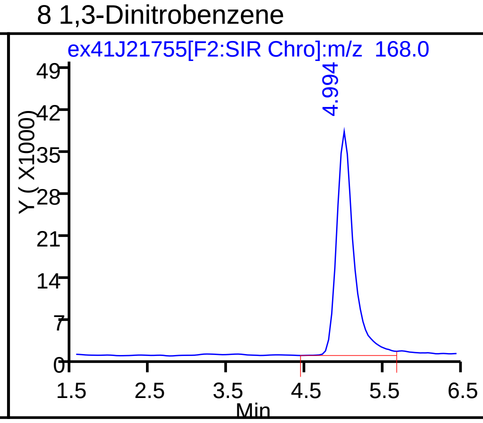
6 Tetryl



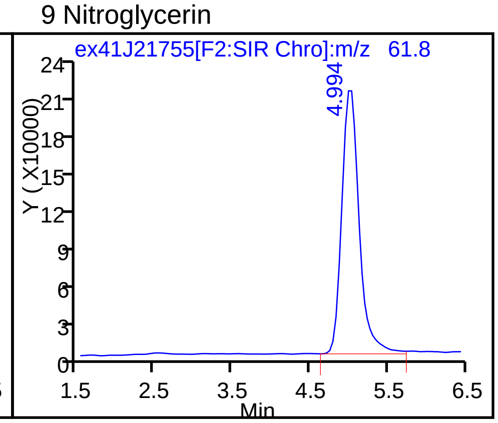
* 7 1,3-Dinitrobenzene-d4



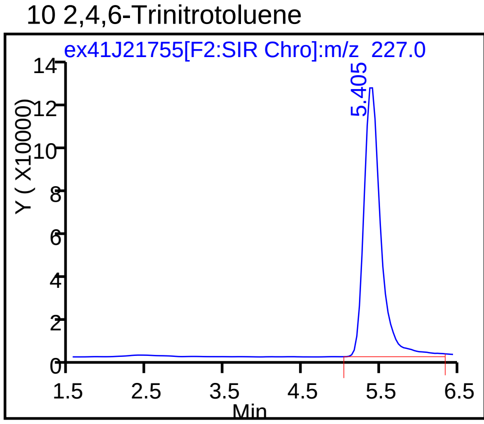
8 1,3-Dinitrobenzene



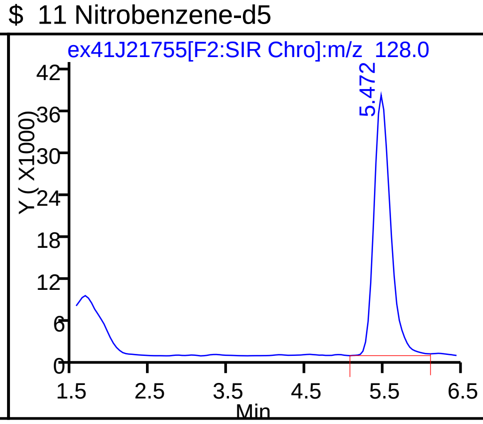
9 Nitroglycerin



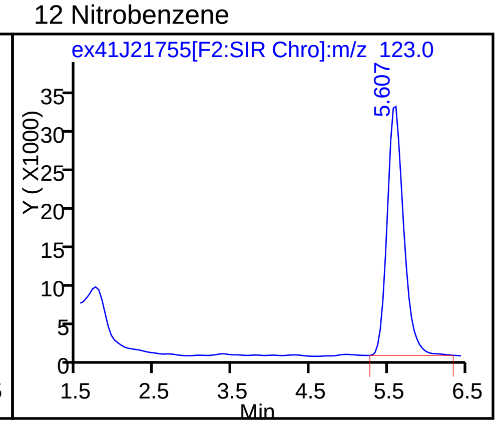
10 2,4,6-Trinitrotoluene



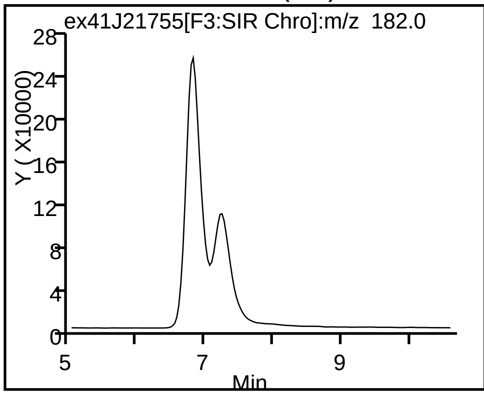
$ 11 Nitrobenzene-d5



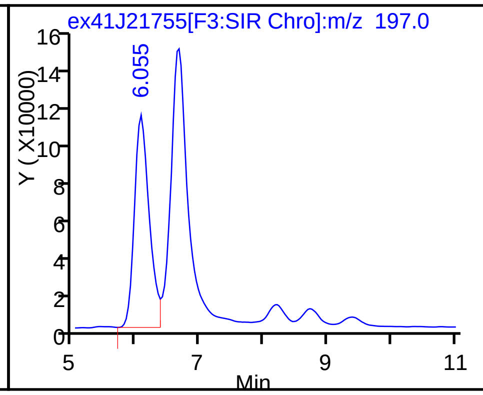
12 Nitrobenzene



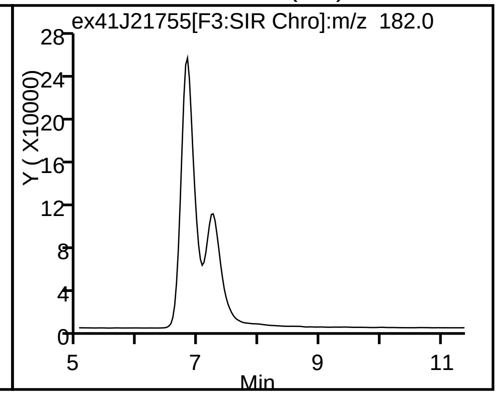
13 3,4-Dinitrotoluene (ND)



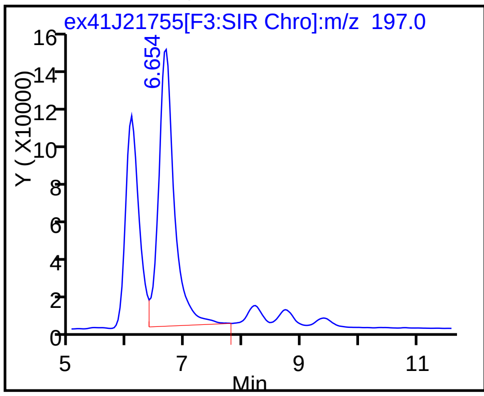
14 4-Amino-2,6-dinitrotoluene



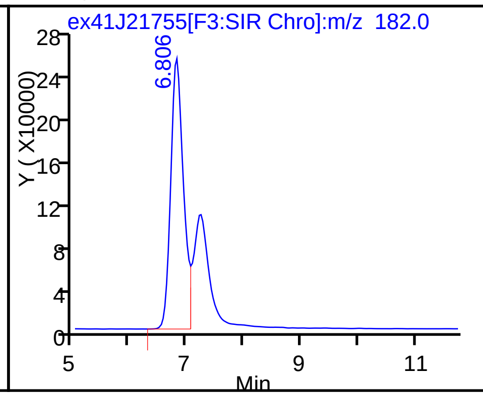
15 2,3-Dinitrotoluene (ND)



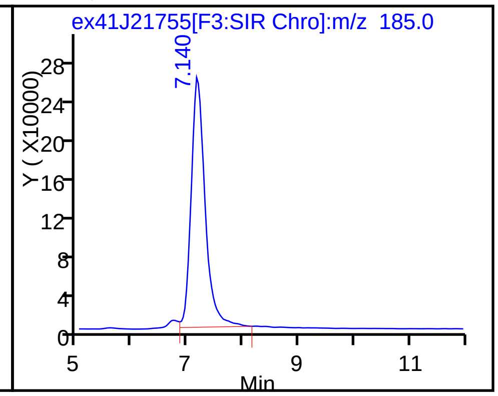
16 2-Amino-4,6-dinitrotoluene



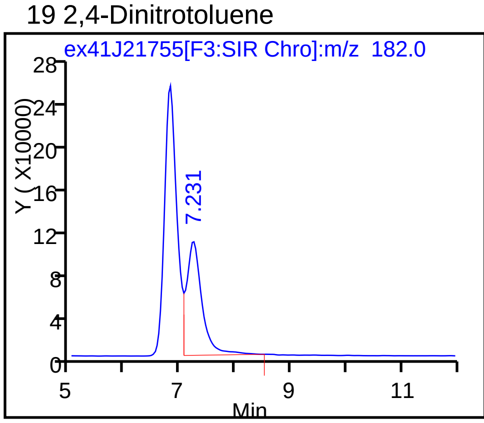
17 2,6-Dinitrotoluene



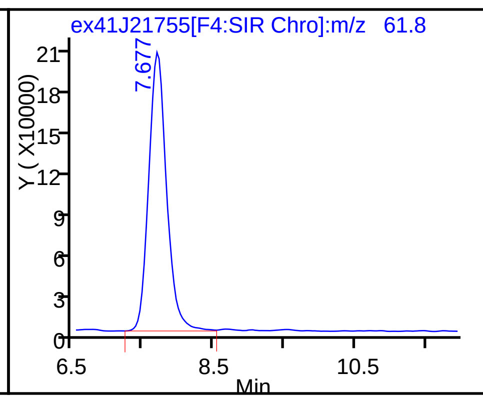
* 18 2,4-dinitrotoluene-d3



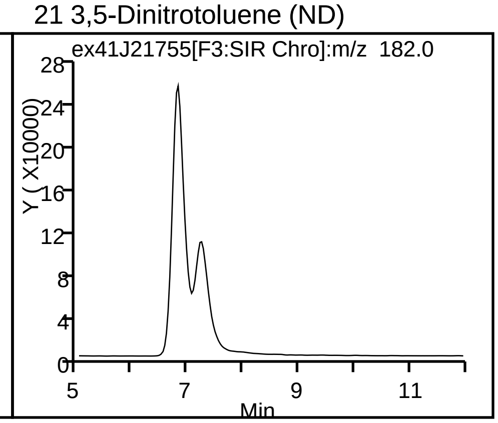
19 2,4-Dinitrotoluene



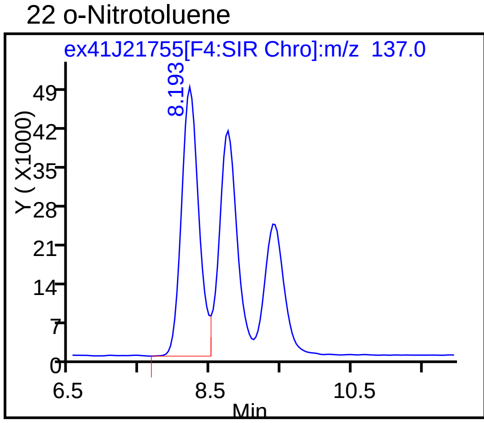
20 PETN



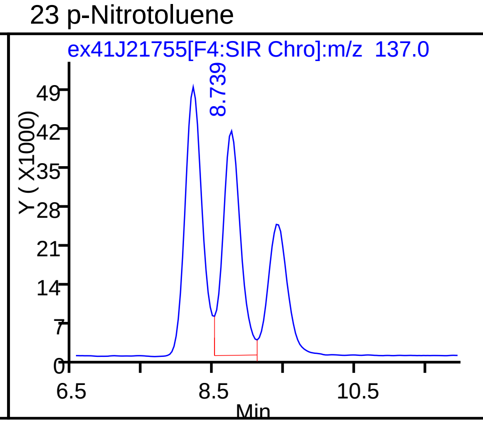
21 3,5-Dinitrotoluene (ND)



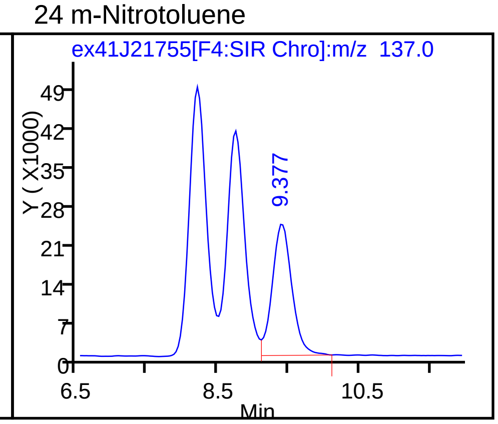
22 o-Nitrotoluene



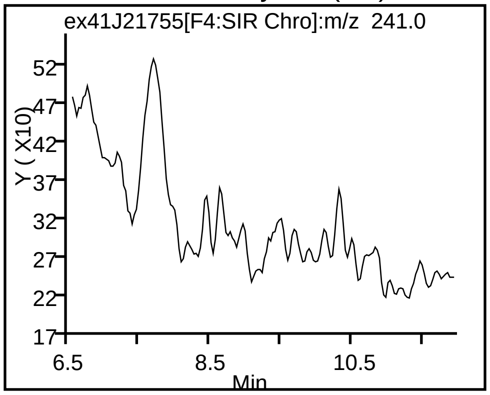
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver　　Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP23 SB043 MS　　Lab Sample ID: 280-21902-52 MS

Matrix: Solid　　Lab File ID: ex41J21781.d

Analysis Method: 8321B　　Date Collected: 10/18/2011 14:50

Extraction Method: 8330B　　Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.78(g)　　Date Analyzed: 11/03/2011 18:53

Con. Extract Vol.: 40(mL)　　Dilution Factor: 1

Injection Volume: 40(uL)　　GC Column: IonPac　　ID: 2(mm)

% Moisture:　　GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611　　Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.326		0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.337		0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.254		0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.338		0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.314		0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.394		0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.324		0.093	0.012	0.0053
99-08-1	3-Nitrotoluene	0.344		0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.327		0.093	0.012	0.0047
99-99-0	4-Nitrotoluene	0.325		0.093	0.023	0.010
2691-41-0	HMX	0.321		0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.348		0.093	0.012	0.010
55-63-0	Nitroglycerin	0.327		0.093	0.012	0.0097
78-11-5	PETN	0.386		0.093	0.012	0.0048
121-82-4	RDX	0.334		0.093	0.012	0.0040
479-45-8	Tetryl	0.259		0.093	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21781.d		
Lims ID:	280-21902-B-52-G MS	Client ID:	SB043
Inject. Date:	03-Nov-2011 18:53:14	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	280-21902-B-52-G MS 280-0002711-032		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	112
Lims Batch ID:	94611	Lims Sample ID:	32
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:50	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	492259	86.5			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		634853	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2354509	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	807003	89.9			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	618078	87.9			
6 Tetryl										
2	241.0	4.429	4.469	-0.040	0.894	567069	69.7			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1535240	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	606505	90.9			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.008	3510564	88.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.405	-0.034	1.084	2008248	68.5			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	584682	77.1			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.125	565809	93.8			
13 3,4-Dinitrotoluene										
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.021	6.055	-0.034	0.840	1950101	88.1			
15 2,3-Dinitrotoluene										
3	182.0		6.459							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.654	-0.030	0.924	2903164	106.3			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.949	4190208	84.6			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4654819	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.231	0.000	1.008	2163615	91.1			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	3802146	104.1			
21 3,5-Dinitrotoluene										
3	182.0		7.839							
22 o-Nitrotoluene										
4	137.0	8.193	8.193	0.000	1.000	865241	87.3			
23 p-Nitrotoluene										
4	137.0	8.739	8.739	0.000	1.000	772177	87.5			
24 m-Nitrotoluene										
4	137.0	9.377	9.408	-0.031	1.000	505030	92.6			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

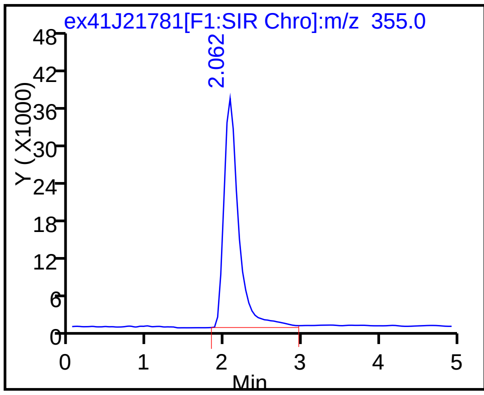
QC Flag Legend

Processing Flags
1 - Missing Peaks

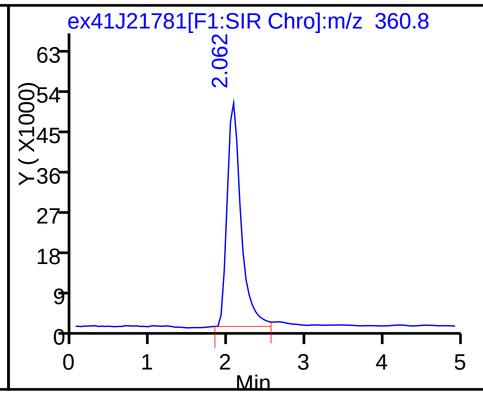
Report Date: 04-Nov-2011 06:46:54 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21781.d		
Injection Date:	03-Nov-2011 18:53:14	Limit Group:	LC - 8321A Expl
Client ID:	SB043	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	32
Operator ID:		Injection Vol:	40.00 ul

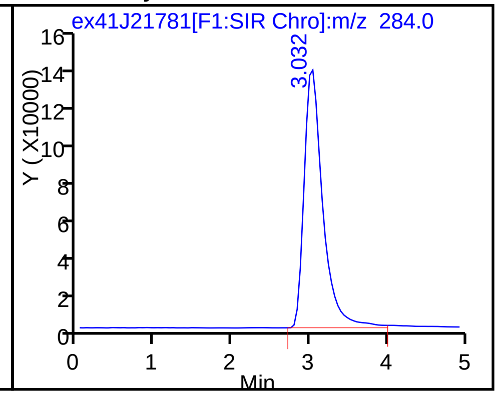
2 HMX



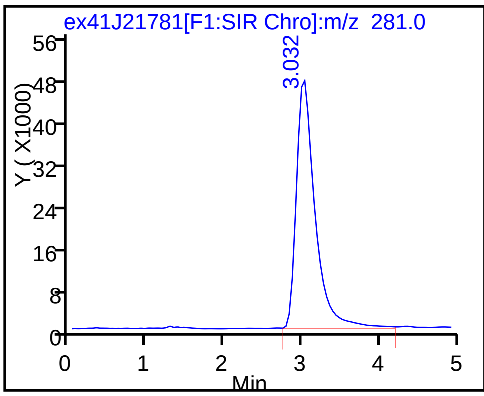
* 1 HMX-13C4



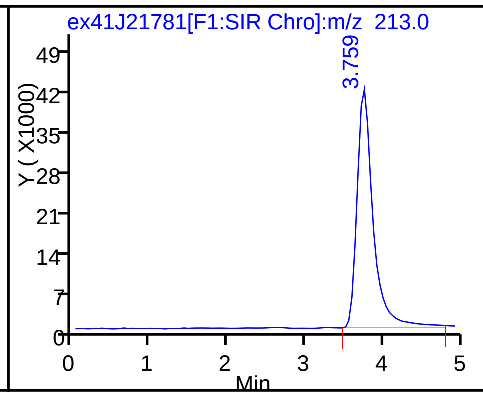
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



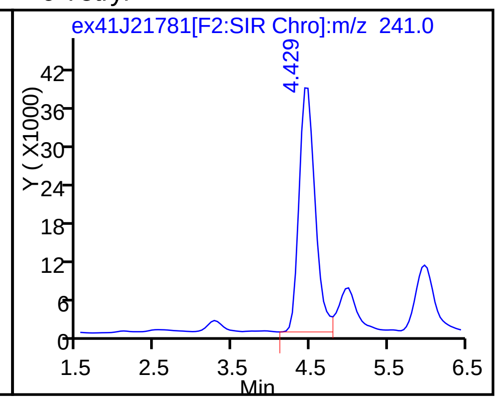
4 RDX



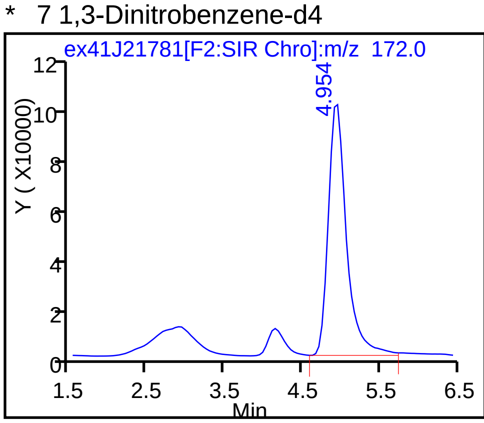
5 1,3,5-Trinitrobenzene



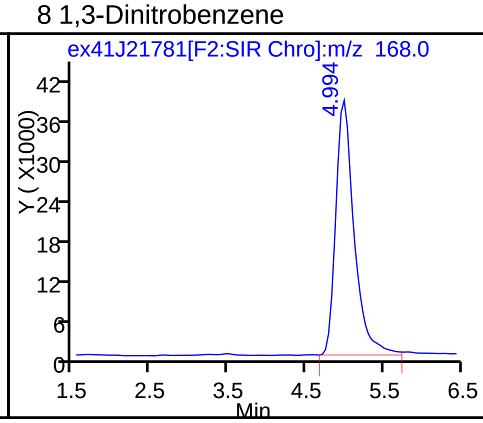
6 Tetryl



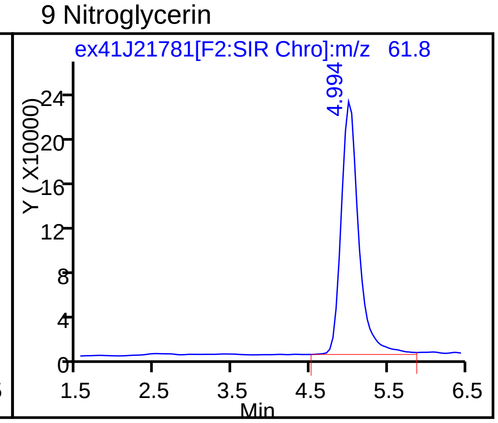
* 7 1,3-Dinitrobenzene-d4



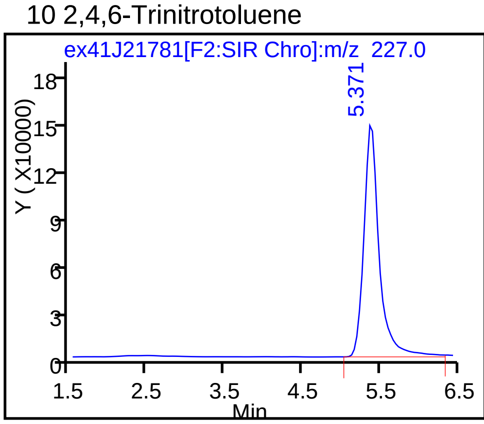
8 1,3-Dinitrobenzene



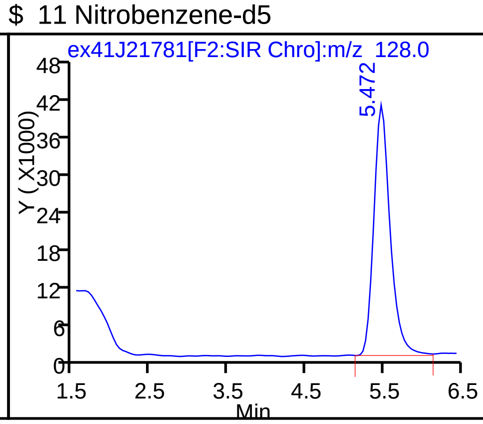
9 Nitroglycerin



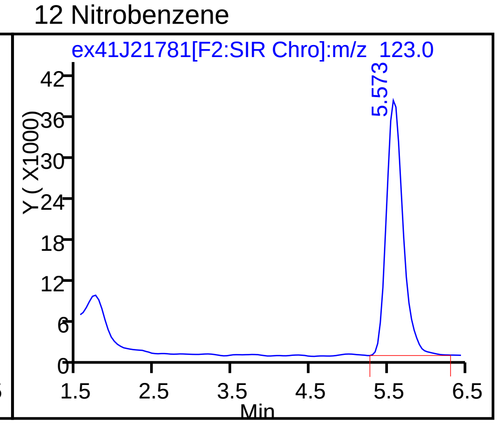
10 2,4,6-Trinitrotoluene



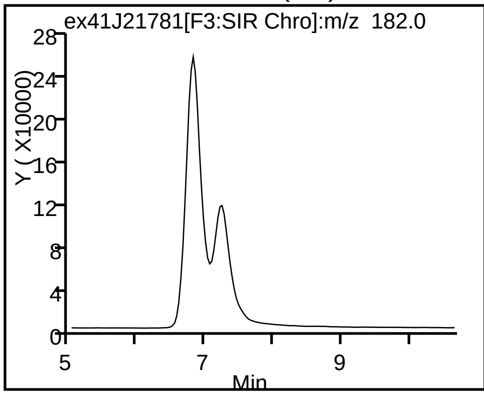
$ 11 Nitrobenzene-d5



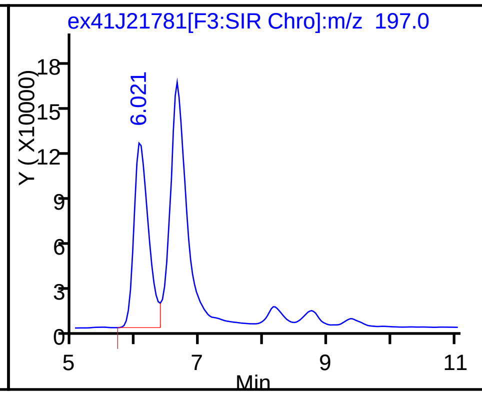
12 Nitrobenzene



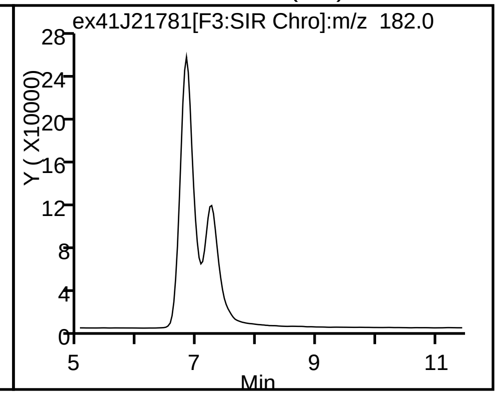
13 3,4-Dinitrotoluene (ND)



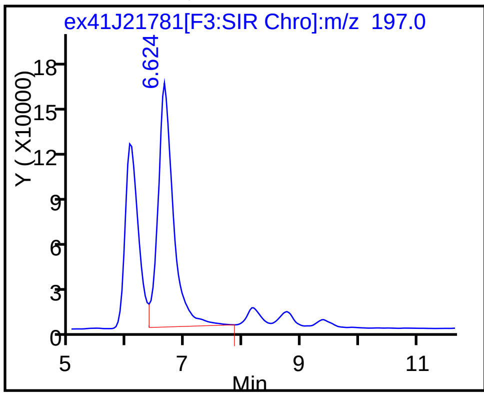
14 4-Amino-2,6-dinitrotoluene



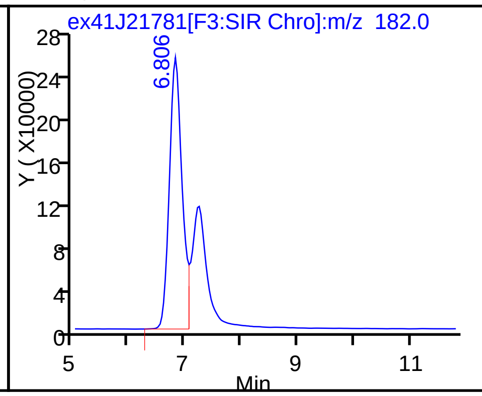
15 2,3-Dinitrotoluene (ND)



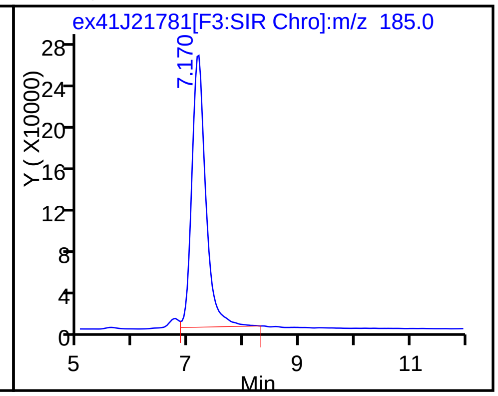
16 2-Amino-4,6-dinitrotoluene



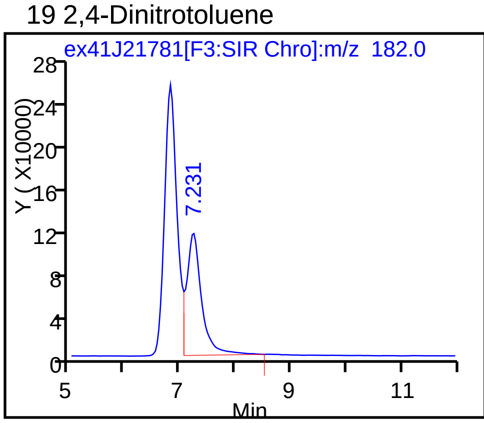
17 2,6-Dinitrotoluene



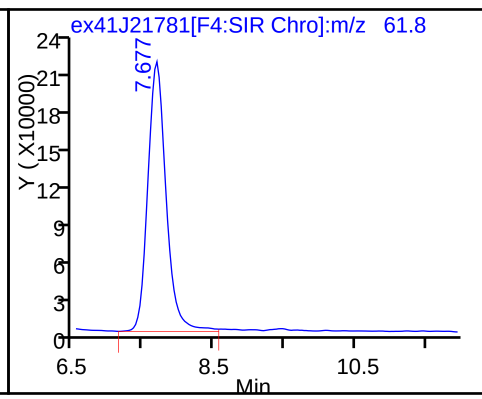
* 18 2,4-dinitrotoluene-d3



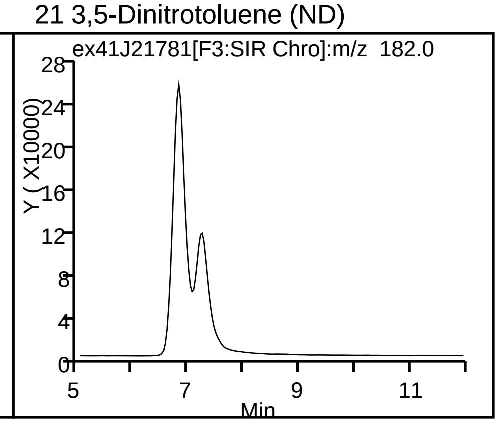
19 2,4-Dinitrotoluene



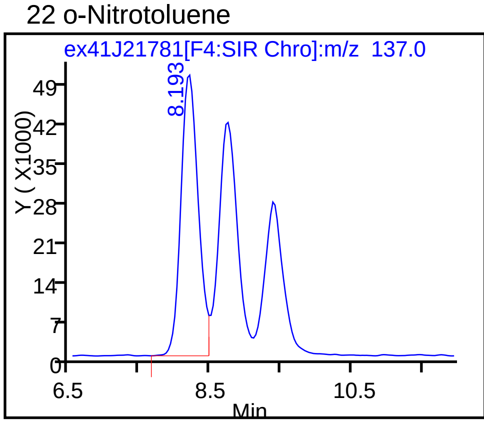
20 PETN



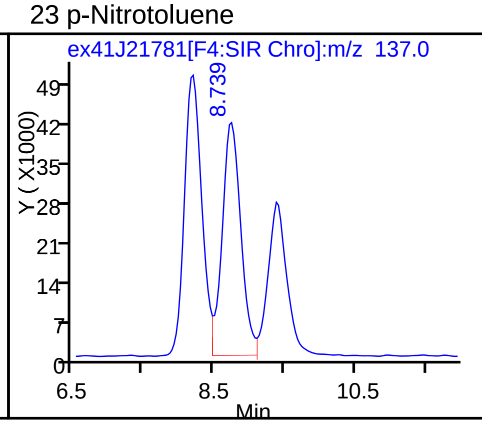
21 3,5-Dinitrotoluene (ND)



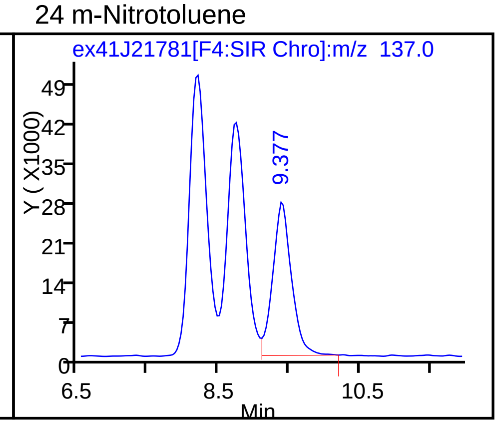
22 o-Nitrotoluene



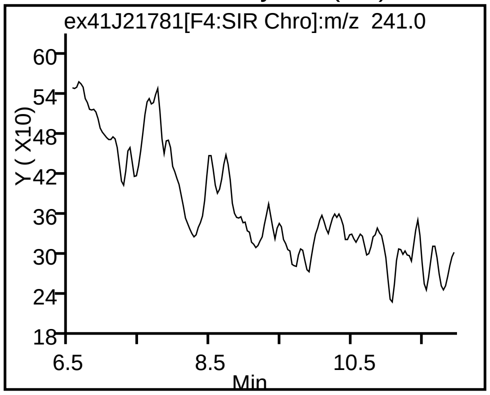
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP02 IS006 MS Lab Sample ID: 280-21902-58 MS

Matrix: Solid Lab File ID: ex41J21658.d

Analysis Method: 8321B Date Collected: 10/17/2011 15:17

Extraction Method: 8330B Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.43(g) Date Analyzed: 11/02/2011 09:33

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.250		0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.321		0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.181	J	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.352		0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.293		0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.328		0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.316		0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.310		0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.305		0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.298		0.096	0.024	0.011
2691-41-0	HMX	0.301		0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.308		0.096	0.012	0.010
55-63-0	Nitroglycerin	0.283		0.096	0.012	0.010
78-11-5	PETN	0.309		0.096	0.012	0.0049
121-82-4	RDX	0.361		0.096	0.012	0.0041
479-45-8	Tetryl	0.158		0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21658.d		
Lims ID:	280-21902-A-58-E MS	Client ID:	
Inject. Date:	02-Nov-2011 09:33:37	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	280-21902-A-58-E MS 280-0002689-182		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	115
Lims Batch ID:	94252	Lims Sample ID:	182
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:30	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	245920	78.4			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		350310	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1372246	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	492470	94.2			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.759	0.040	1.000	409891	65.1			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.903	298380	41.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1387902	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.008	504815	83.7			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.008	2650585	73.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.439	0.000	1.089	1243418	47.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	501824	73.1			
12 Nitrobenzene										
2	123.0	5.641	5.607	0.034	1.129	437283	80.3			
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.847	1730396	79.5			
15 2,3-Dinitrotoluene										
3	182.0		6.492							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.924	2298247	85.5			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.950	3717717	76.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		4575500	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.262	0.030	1.008	2146349	91.9			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	2910204	80.6			
21 3,5-Dinitrotoluene										
3	182.0		7.869							
22 o-Nitrotoluene										
4	137.0	8.284	8.254	0.030	1.000	803135	82.5			
23 p-Nitrotoluene										
4	137.0	8.831	8.800	0.031	1.000	672742	77.6			
24 m-Nitrotoluene										
4	137.0	9.499	9.468	0.031	1.000	433766	80.9			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

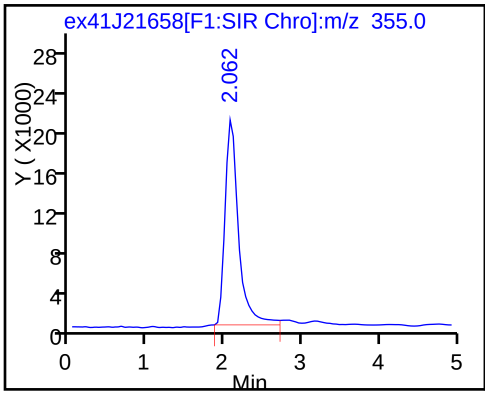
QC Flag Legend

Processing Flags
1 - Missing Peaks

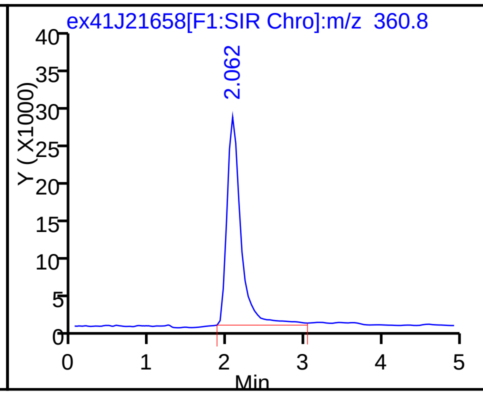
Report Date: 02-Nov-2011 10:22:38 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21658.d

Injection Date:	02-Nov-2011 09:33:37	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	182
Operator ID:		Injection Vol:	40.00 ul

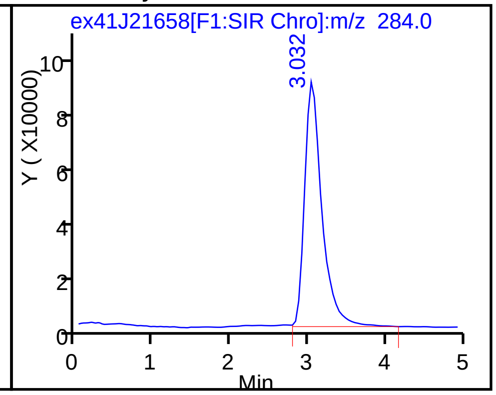
2 HMX



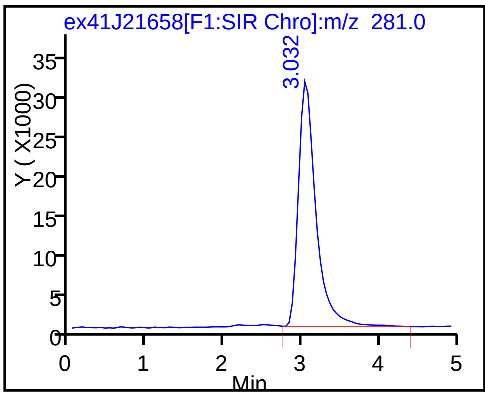
* 1 HMX-13C4



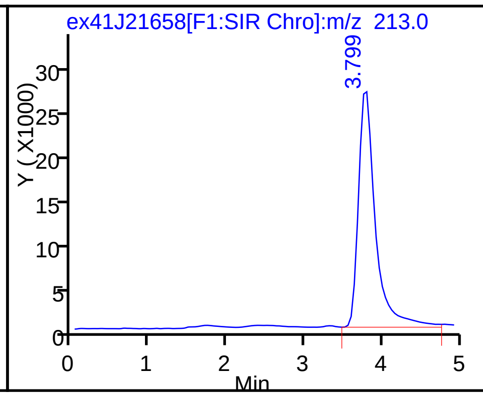
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



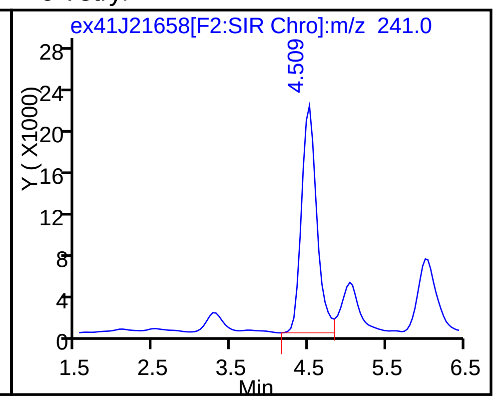
4 RDX



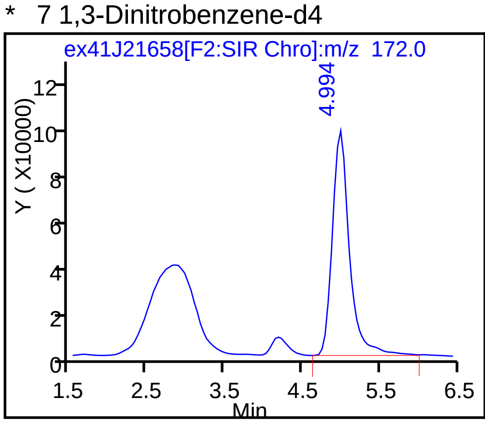
5 1,3,5-Trinitrobenzene



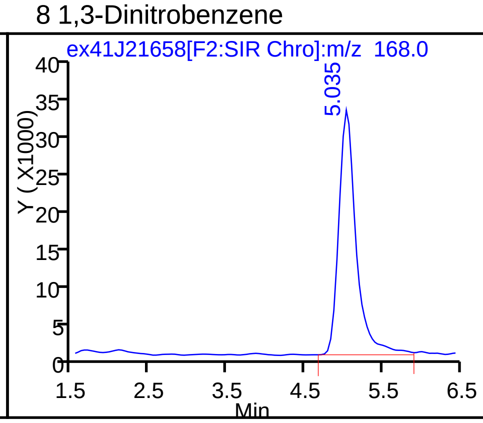
6 Tetryl



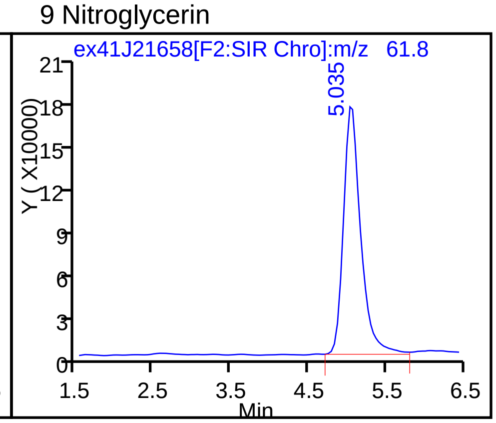
* 7 1,3-Dinitrobenzene-d4



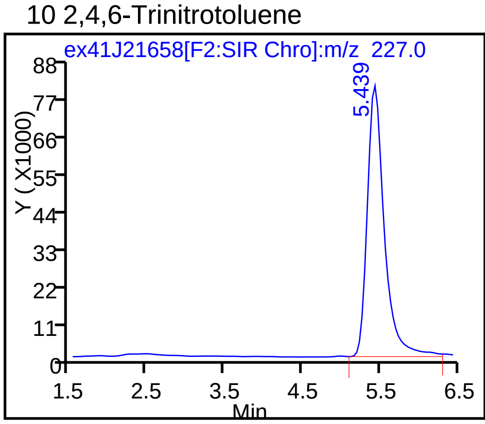
8 1,3-Dinitrobenzene



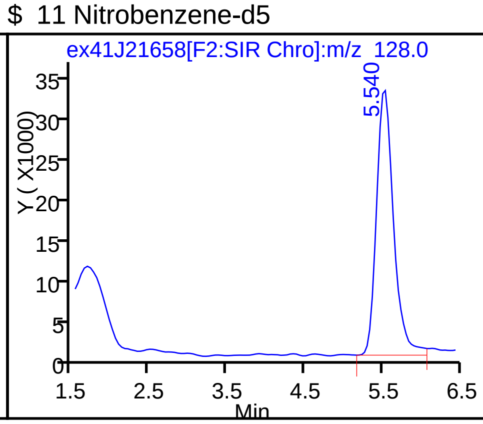
9 Nitroglycerin



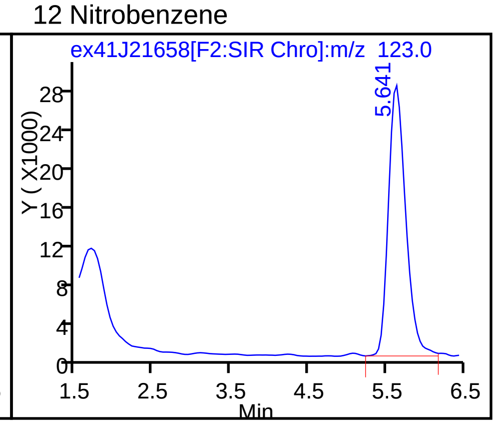
10 2,4,6-Trinitrotoluene



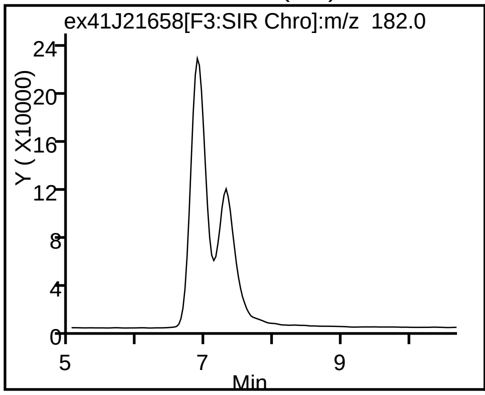
$ 11 Nitrobenzene-d5



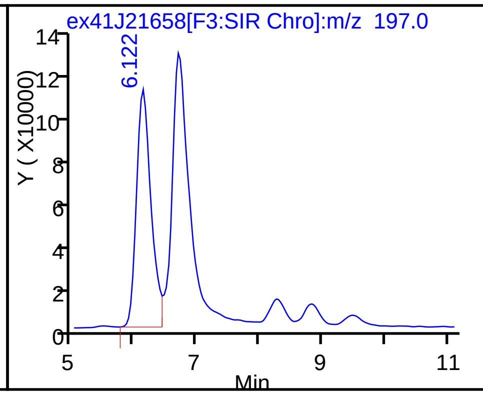
12 Nitrobenzene



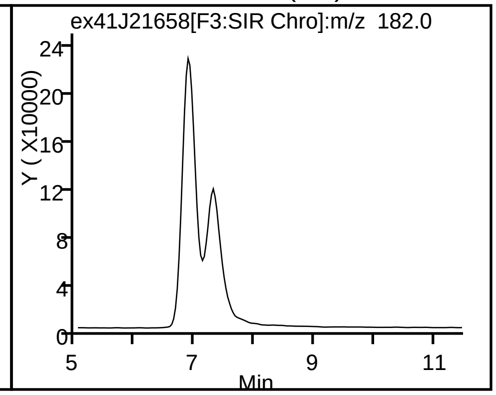
13 3,4-Dinitrotoluene (ND)



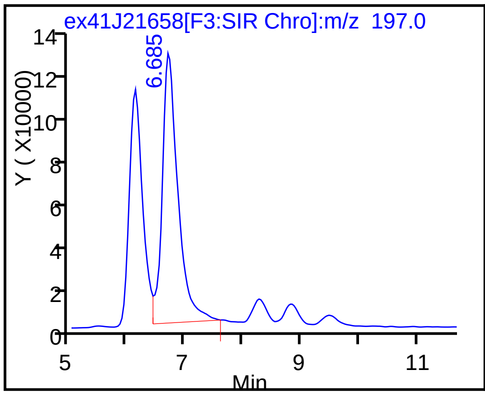
14 4-Amino-2,6-dinitrotoluene



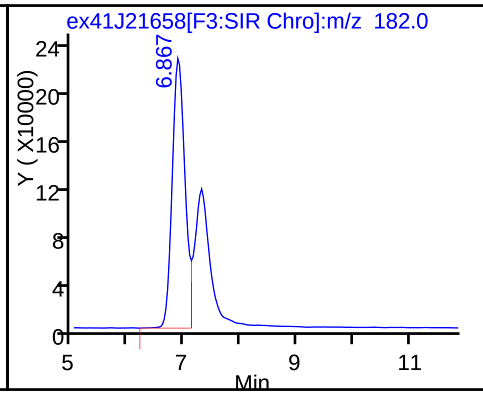
15 2,3-Dinitrotoluene (ND)



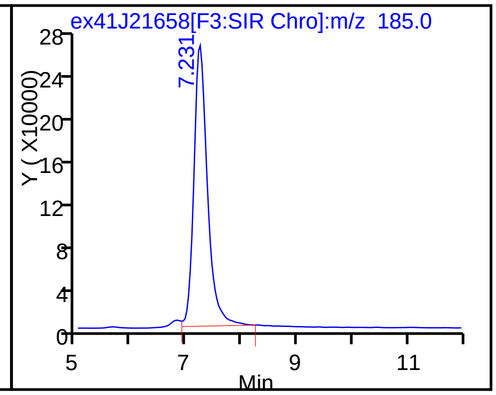
16 2-Amino-4,6-dinitrotoluene



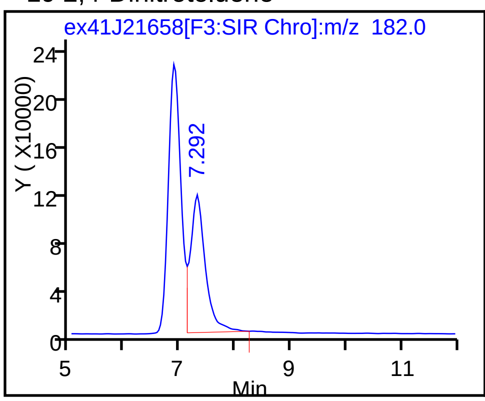
17 2,6-Dinitrotoluene



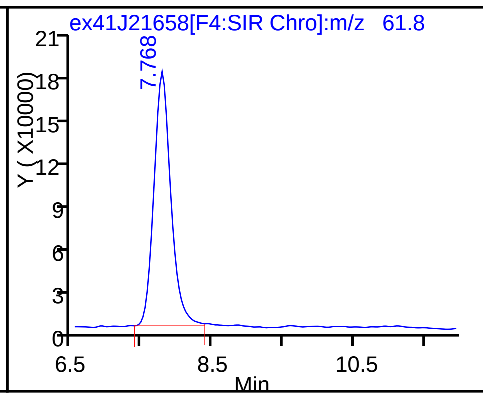
* 18 2,4-dinitrotoluene-d3



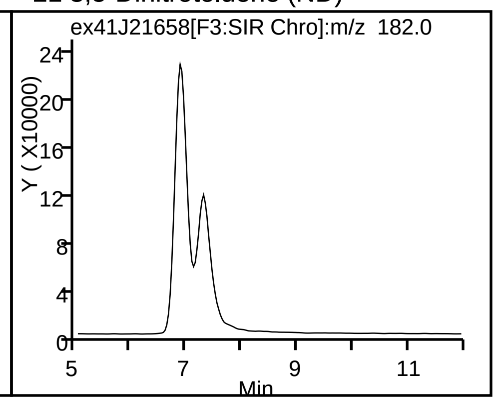
19 2,4-Dinitrotoluene



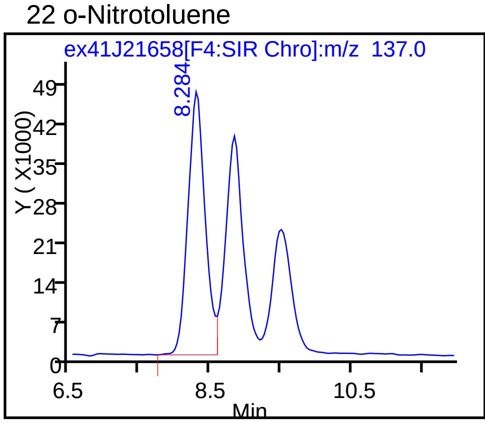
20 PETN



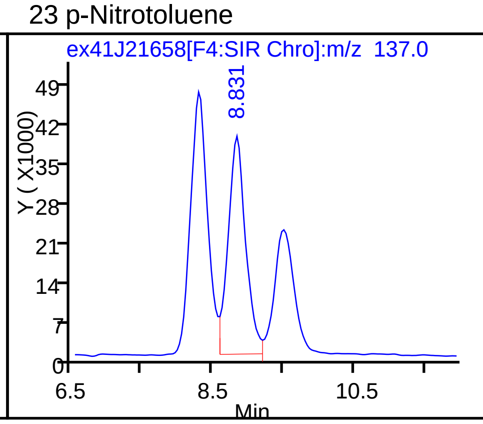
21 3,5-Dinitrotoluene (ND)



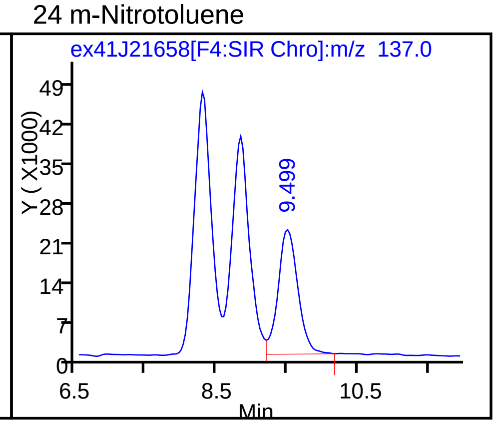
22 o-Nitrotoluene



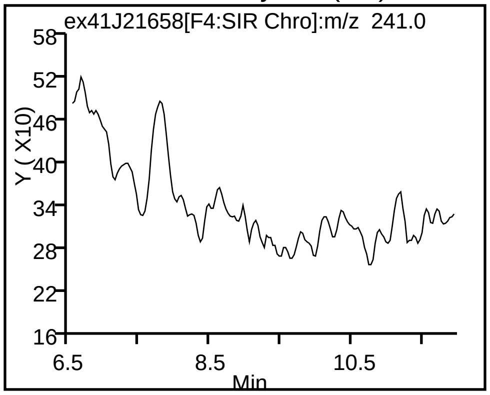
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP13 SB020 MS   Lab Sample ID: 280-21902-61 MS

Matrix: Solid   Lab File ID: ex41J21786.d

Analysis Method: 8321B   Date Collected: 10/17/2011 12:50

Extraction Method: 8330B   Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.34(g)   Date Analyzed: 11/03/2011 20:01

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.304		0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.361		0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.252		0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.356		0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.334		0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.373		0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.365		0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.335		0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.328		0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.327		0.097	0.024	0.011
2691-41-0	HMX	0.307		0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.346		0.097	0.012	0.010
55-63-0	Nitroglycerin	0.309		0.097	0.012	0.010
78-11-5	PETN	0.406		0.097	0.012	0.0050
121-82-4	RDX	0.359		0.097	0.012	0.0042
479-45-8	Tetryl	0.231		0.097	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	79		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21786.d		
Lims ID:	280-21902-B-61-G MS	Client ID:	SB020
Inject. Date:	03-Nov-2011 20:01:03	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	280-21902-B-61-G MS 280-0002711-037		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	117
Lims Batch ID:	94611	Lims Sample ID:	37
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:50	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	443701	79.4			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		624059	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2196867	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	775904	92.7			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	584607	78.6			
6 Tetryl										
2	241.0	4.429	4.469	-0.040	0.894	513753	59.8			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1628017	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	659270	93.2			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.008	3369862	80.0			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.405	-0.034	1.084	2025155	65.2			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	626557	77.9			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.125	572003	89.5			
13 3,4-Dinitrotoluene										
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.848	1979729	84.8			
15 2,3-Dinitrotoluene										
3	182.0		6.459							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.654	-0.030	0.928	2779564	96.4			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.953	4507668	86.3			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4910742	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.231	-0.030	1.009	2308374	92.1			
20 PETN										
4	61.8	7.646	7.677	-0.031	1.000	4042255	104.9			
21 3,5-Dinitrotoluene										
3	182.0		7.839							
22 o-Nitrotoluene										
4	137.0	8.163	8.193	-0.030	1.000	985212	94.3			
23 p-Nitrotoluene										
4	137.0	8.709	8.739	-0.030	1.000	786137	84.5			
24 m-Nitrotoluene										
4	137.0	9.377	9.408	-0.031	1.000	497806	86.5			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

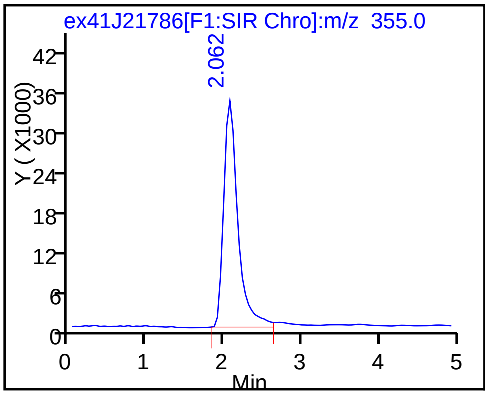
Processing Flags
1 - Missing Peaks

Report Date: 04-Nov-2011 06:46:57 Chrom Revision: 1.2 13-Jul-2011 10:43:06

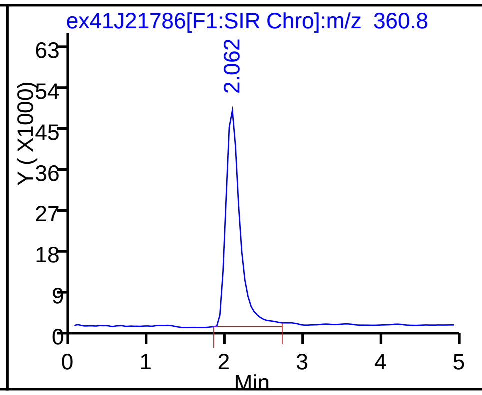
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21786.d

Injection Date:	03-Nov-2011 20:01:03	Limit Group:	LC - 8321A Expl
Client ID:	SB020	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	37
Operator ID:		Injection Vol:	40.00 ul

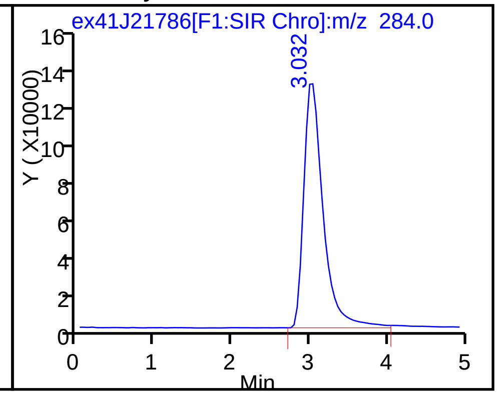
2 HMX



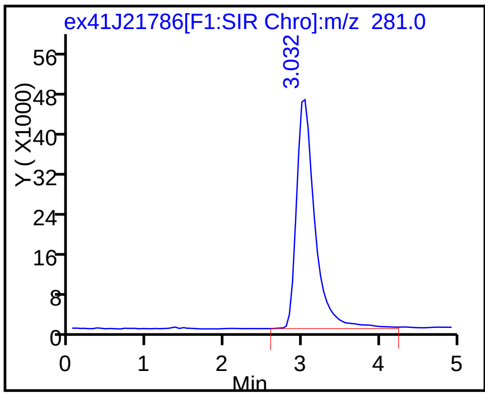
* 1 HMX-13C4



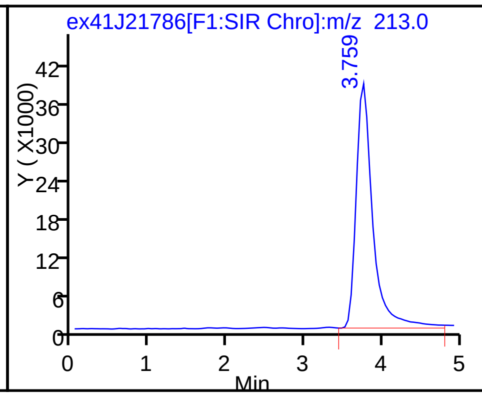
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



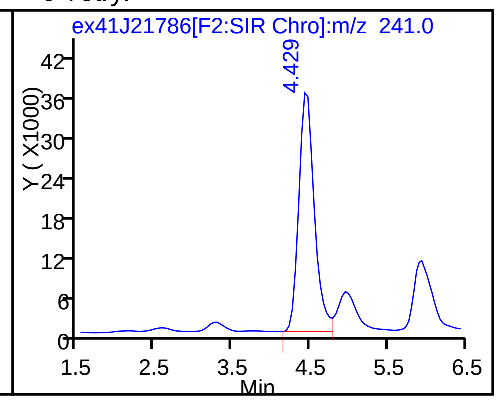
4 RDX



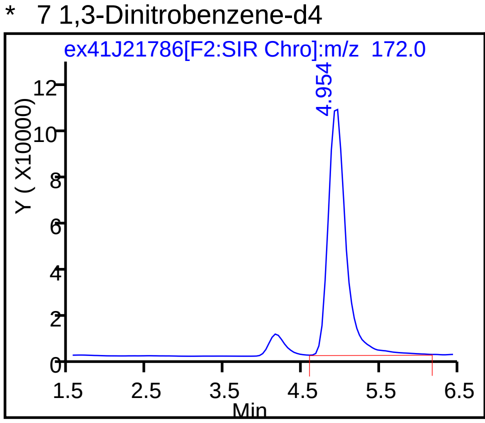
5 1,3,5-Trinitrobenzene



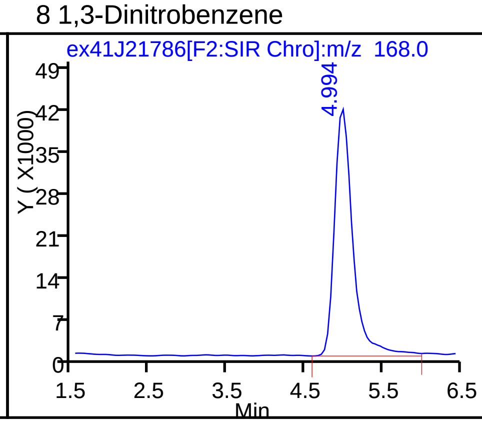
6 Tetryl



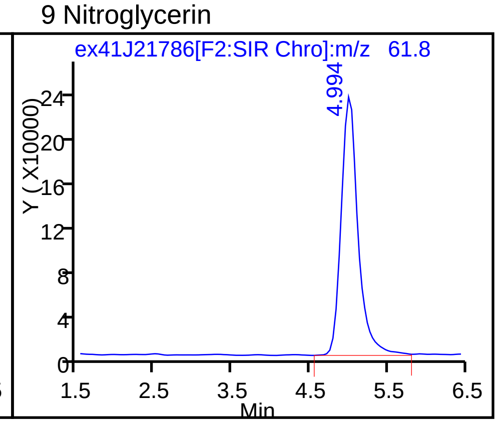
* 7 1,3-Dinitrobenzene-d4



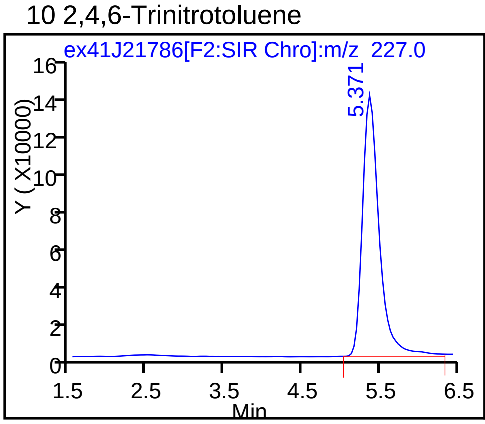
8 1,3-Dinitrobenzene



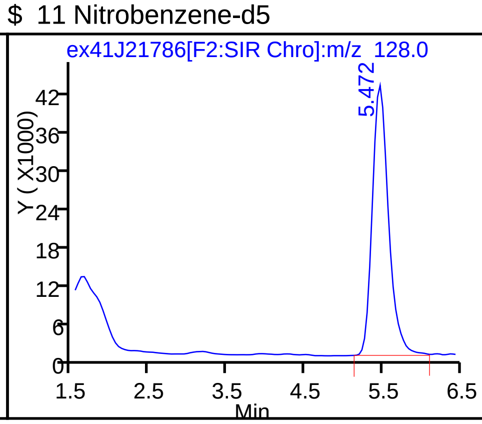
9 Nitroglycerin



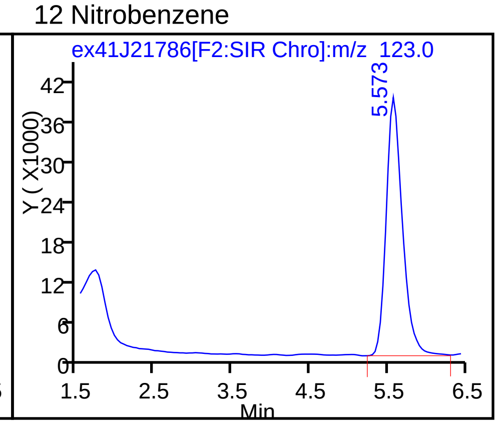
10 2,4,6-Trinitrotoluene



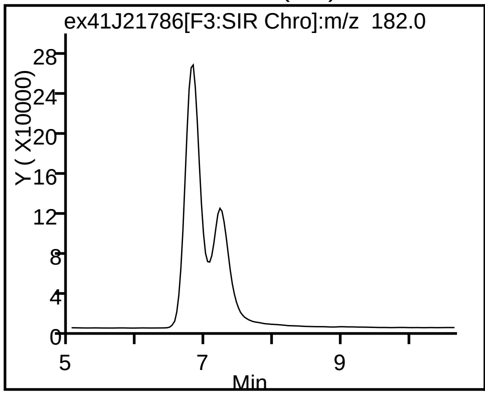
$ 11 Nitrobenzene-d5



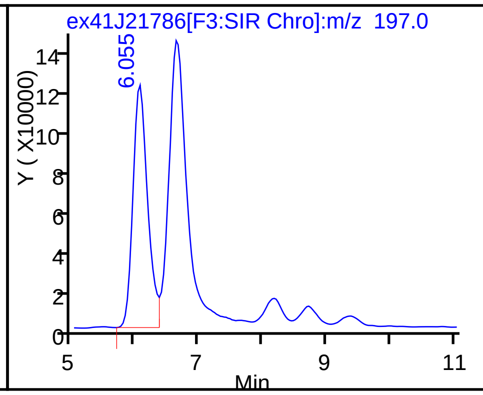
12 Nitrobenzene



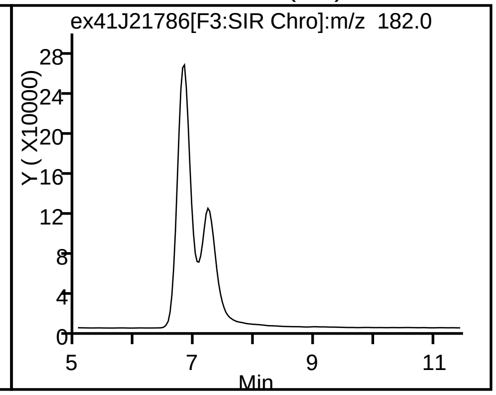
13 3,4-Dinitrotoluene (ND)



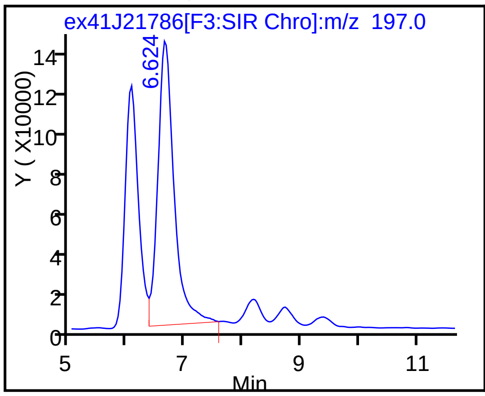
14 4-Amino-2,6-dinitrotoluene



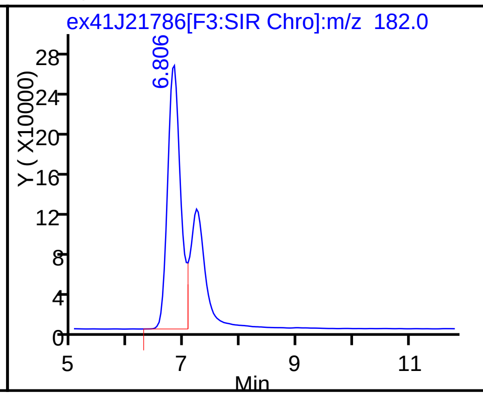
15 2,3-Dinitrotoluene (ND)



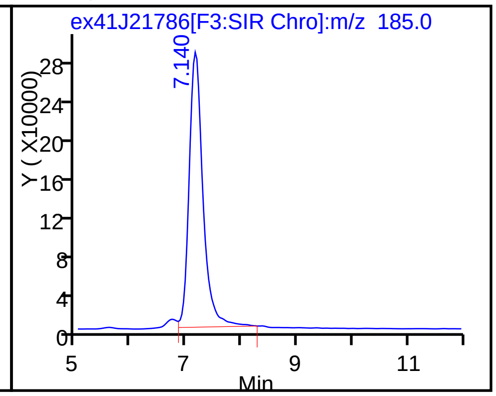
16 2-Amino-4,6-dinitrotoluene



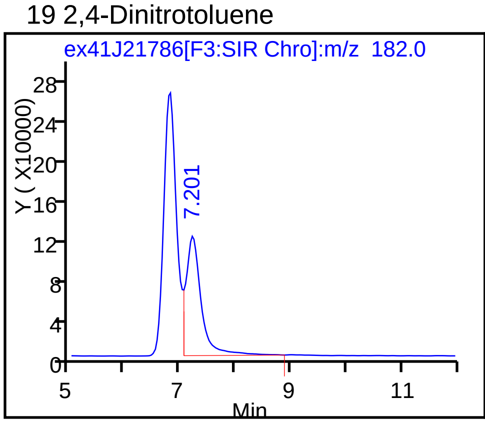
17 2,6-Dinitrotoluene



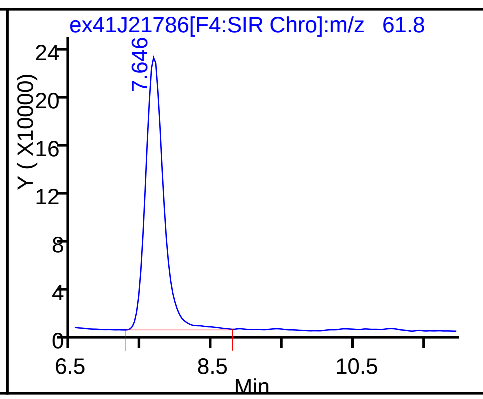
* 18 2,4-dinitrotoluene-d3



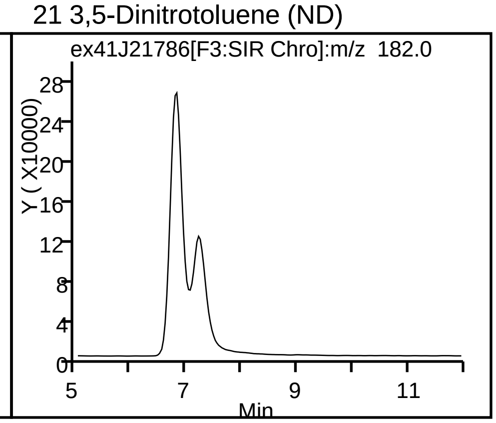
19 2,4-Dinitrotoluene



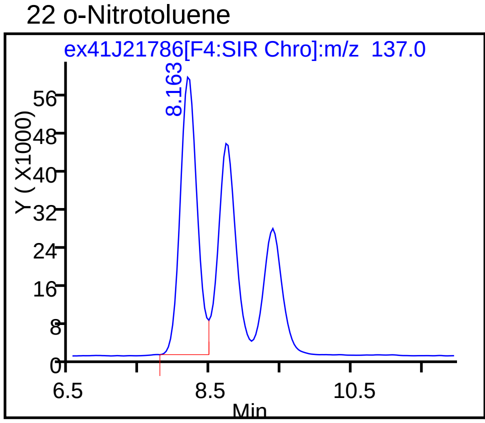
20 PETN



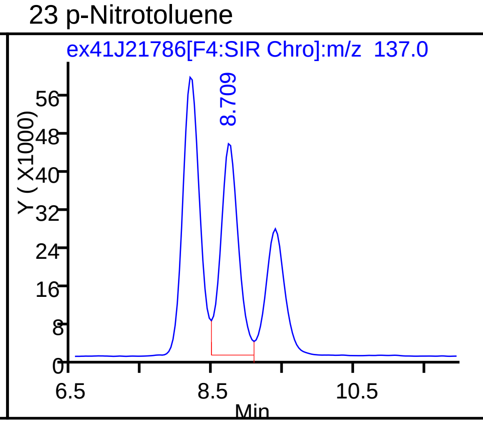
21 3,5-Dinitrotoluene (ND)



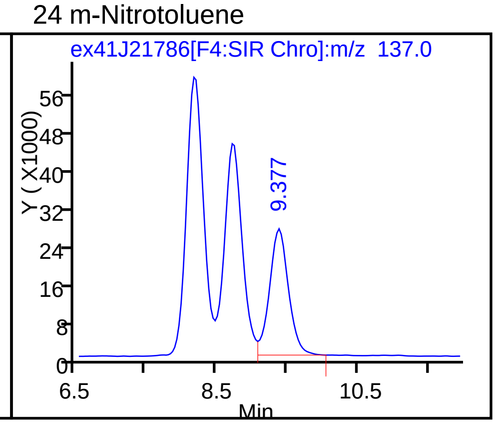
22 o-Nitrotoluene



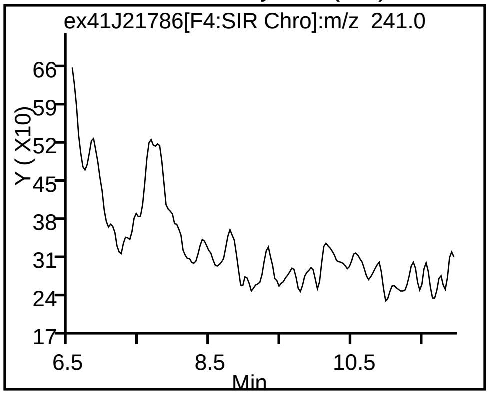
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP11 SD024 MSD | Lab Sample ID: 280-21902-7 MSD

Matrix: Solid | Lab File ID: ex41J21839.d

Analysis Method: 8321B | Date Collected: 10/19/2011 11:40

Extraction Method: 8330B | Date Extracted: 10/27/2011 18:25

Sample wt/vol: 10.66(g) | Date Analyzed: 11/04/2011 08:05

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94725 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.316		0.094	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.348		0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.221	J	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.348		0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.335		0.094	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.420		0.094	0.023	0.011
88-72-2	2-Nitrotoluene	0.367		0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.373		0.094	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.373		0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.316		0.094	0.023	0.010
2691-41-0	HMX	0.283		0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.344		0.094	0.012	0.010
55-63-0	Nitroglycerin	0.267		0.094	0.012	0.0098
78-11-5	PETN	0.358		0.094	0.012	0.0048
121-82-4	RDX	0.345		0.094	0.012	0.0041
479-45-8	Tetryl	0.214		0.094	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21839.d		
Lims ID:	280-21902-A-7-E MSD	Client ID:	
Inject. Date:	04-Nov-2011 08:05:03	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	280-21902-A-7-E MSD 280-0002711-090		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	34
Lims Batch ID:	94725	Lims Sample ID:	90
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 08:41:23	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	420644	75.5			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		622355	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2239658	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	784981	92.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	653836	84.3			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	507873	56.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1694856	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	683436	92.8			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.008	3115881	71.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.084	1908601	59.0			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	675088	80.6			
12 Nitrobenzene										
2	123.0	5.607	5.573	0.034	1.132	610230	91.7			
13 3,4-Dinitrotoluene										
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.848	2195873	99.3			
15 2,3-Dinitrotoluene										
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.932	3055368	112.0			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.953	4421087	89.3			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.170	-0.030		4651223	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.201	0.030	1.013	2202589	92.8			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	3491124	95.5			
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0	8.193	8.193	0.000	1.000	968592	97.9			
23 p-Nitrotoluene										
4	137.0	8.739	8.739	0.000	1.000	743410	84.3			
24 m-Nitrotoluene										
4	137.0	9.377	9.377	0.000	1.000	542062	99.5			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

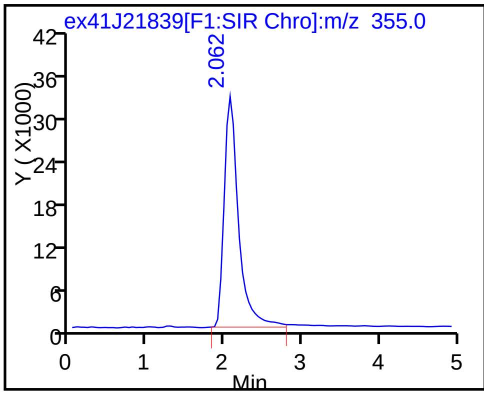
QC Flag Legend

Processing Flags
1 - Missing Peaks

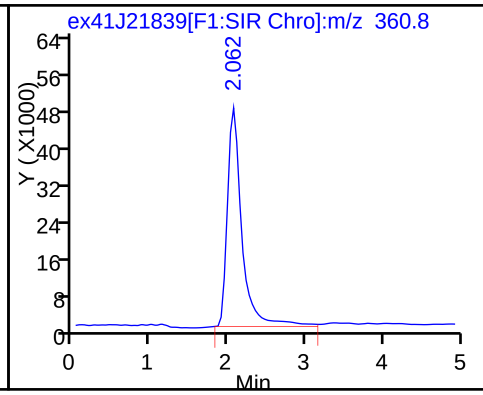
Report Date: 04-Nov-2011 08:41:27 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21839.d

Injection Date:	04-Nov-2011 08:05:03	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94725	Lims Sample ID:	90
Operator ID:		Injection Vol:	40.00 ul

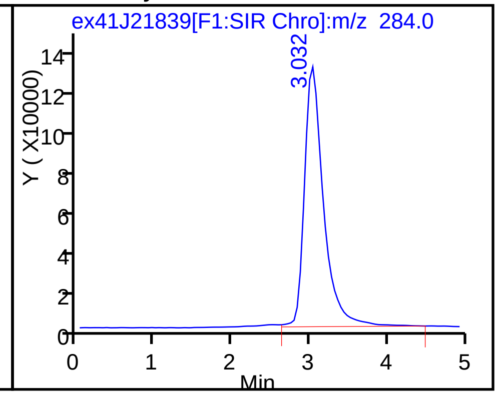
2 HMX



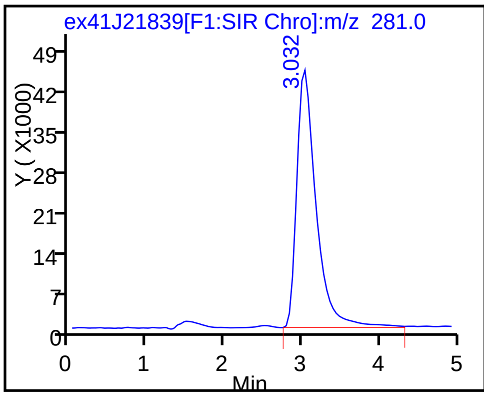
* 1 HMX-13C4



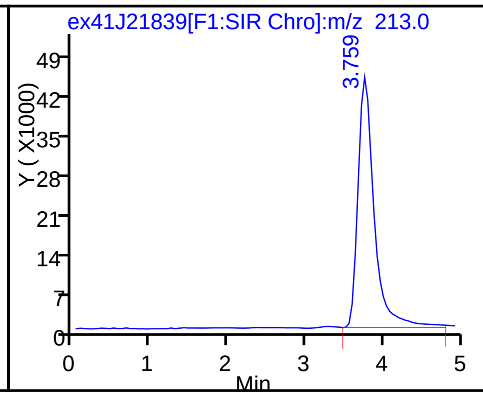
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



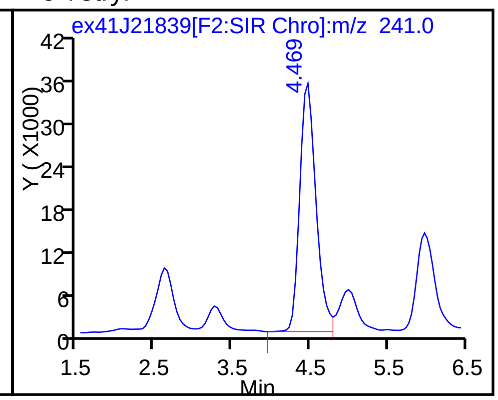
4 RDX



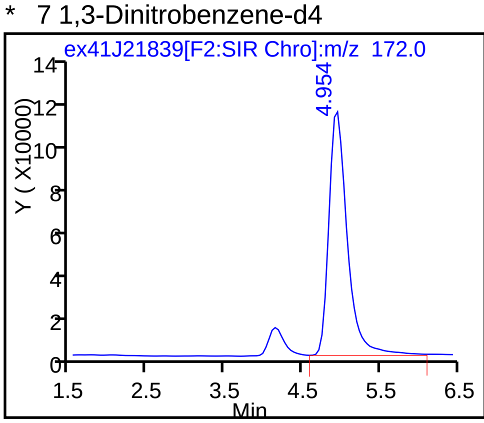
5 1,3,5-Trinitrobenzene



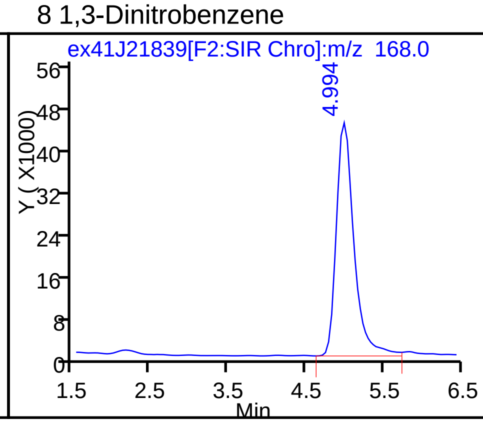
6 Tetryl



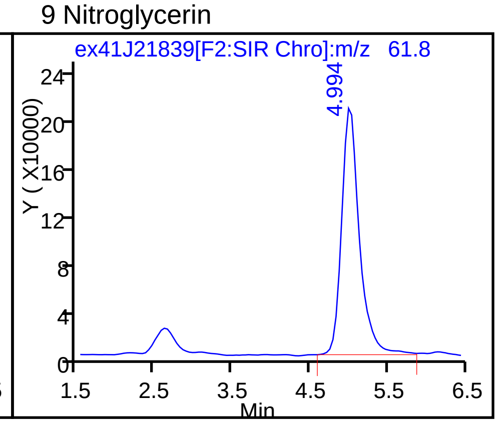
* 7 1,3-Dinitrobenzene-d4



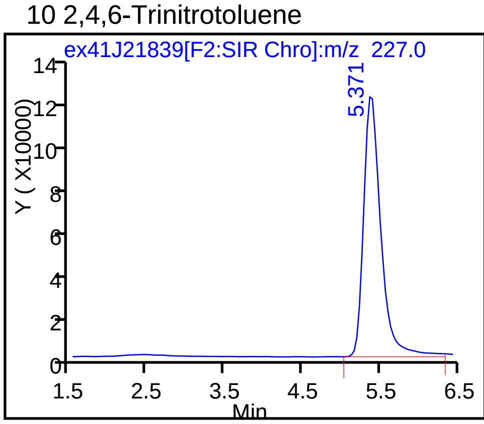
8 1,3-Dinitrobenzene



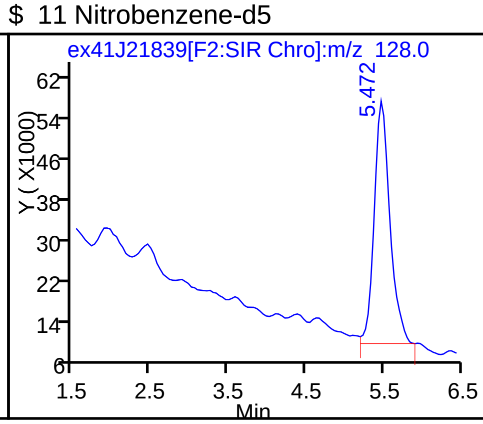
9 Nitroglycerin



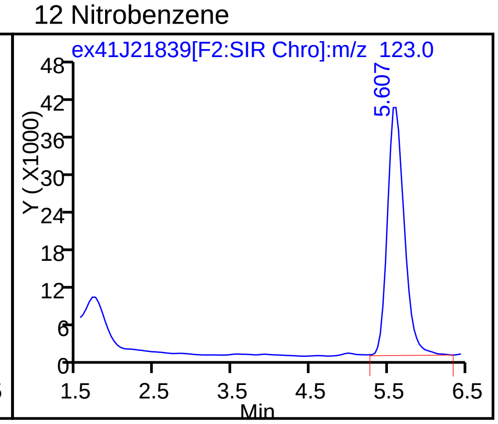
10 2,4,6-Trinitrotoluene



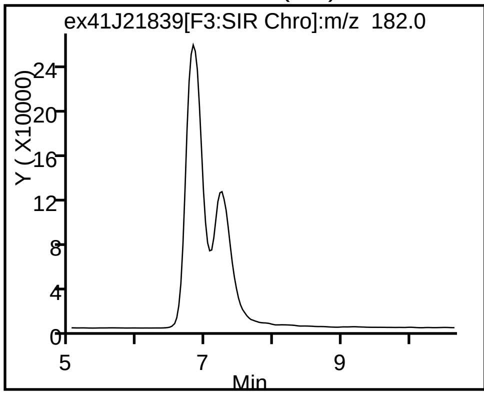
$ 11 Nitrobenzene-d5



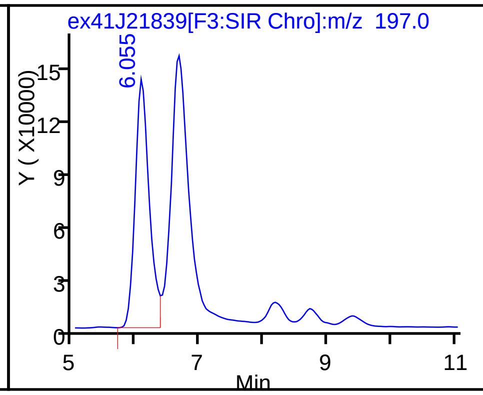
12 Nitrobenzene



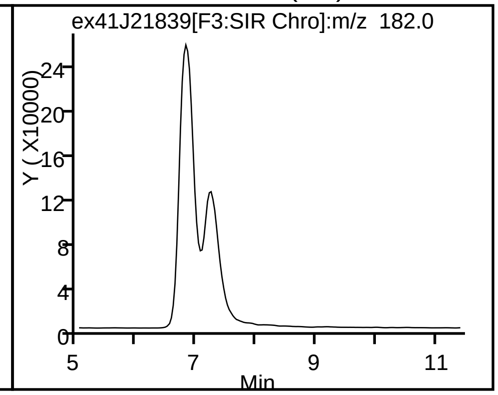
13 3,4-Dinitrotoluene (ND)



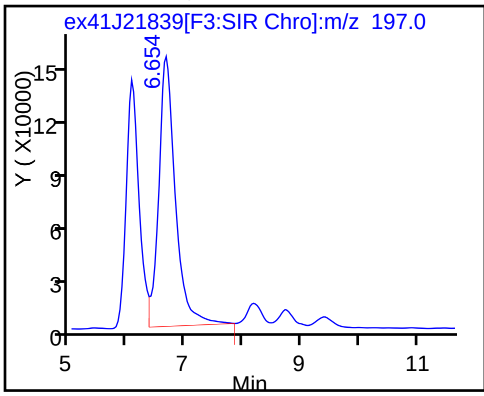
14 4-Amino-2,6-dinitrotoluene



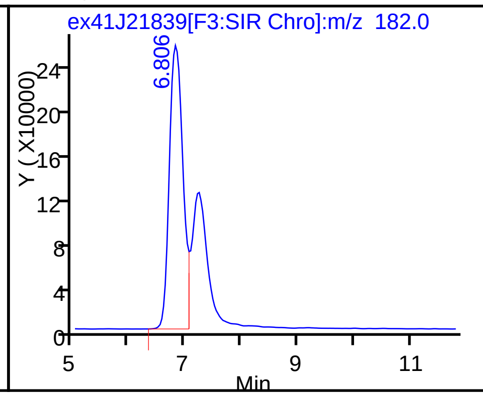
15 2,3-Dinitrotoluene (ND)



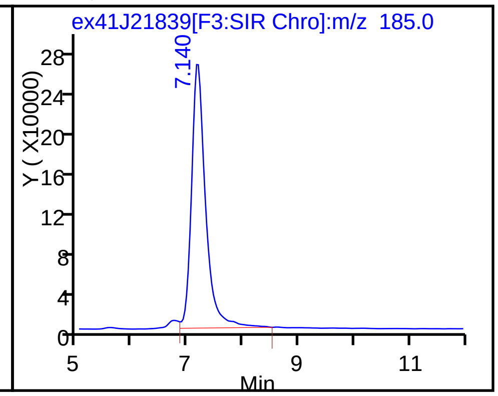
16 2-Amino-4,6-dinitrotoluene



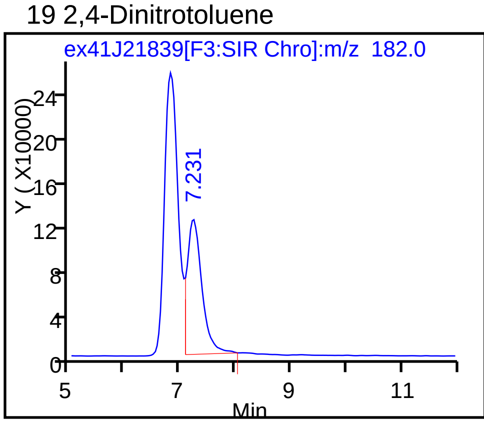
17 2,6-Dinitrotoluene



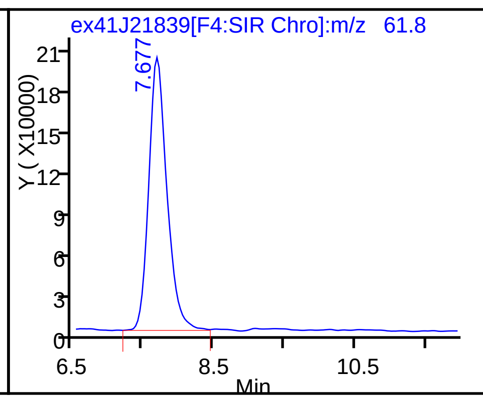
* 18 2,4-dinitrotoluene-d3



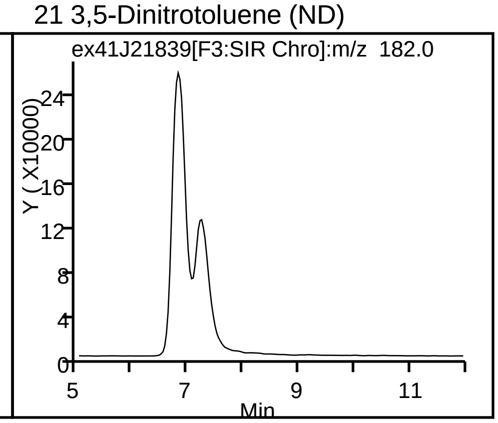
19 2,4-Dinitrotoluene



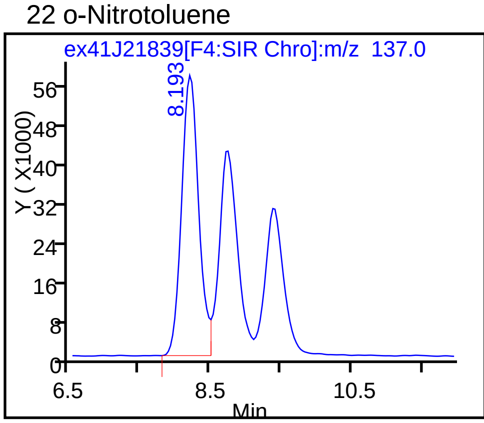
20 PETN



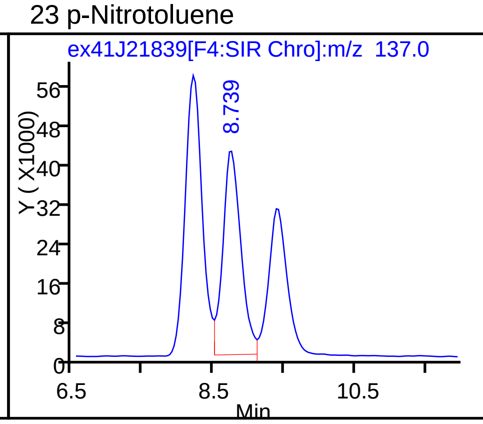
21 3,5-Dinitrotoluene (ND)



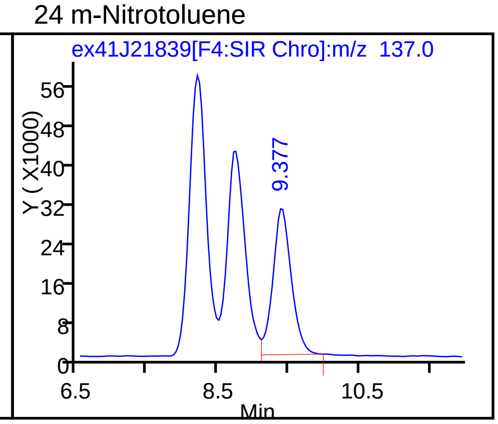
22 o-Nitrotoluene



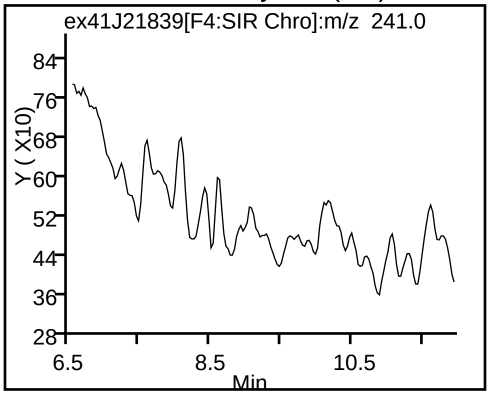
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: TP01 SB130 MSD   Lab Sample ID: 280-21902-22 MSD

Matrix: Solid   Lab File ID: ex41J21756.d

Analysis Method: 8321B   Date Collected: 10/19/2011 13:35

Extraction Method: 8330B   Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.42(g)   Date Analyzed: 11/03/2011 13:11

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94610   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.341		0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.355		0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.266		0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.396		0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.345		0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.382		0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.386		0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.388		0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.326		0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.373		0.096	0.024	0.011
2691-41-0	HMX	0.311		0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.349		0.096	0.012	0.010
55-63-0	Nitroglycerin	0.296		0.096	0.012	0.010
78-11-5	PETN	0.416		0.096	0.012	0.0049
121-82-4	RDX	0.369		0.096	0.012	0.0041
479-45-8	Tetryl	0.266		0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21756.d		
Lims ID:	280-21902-A-22-E MSD	Client ID:	
Inject. Date:	03-Nov-2011 13:11:08	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	280-21902-A-22-E MSD 280-0002711-007		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	90
Lims Batch ID:	94610	Lims Sample ID:	7
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:26	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	307344	81.0			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		423701	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		1499246	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	549835	96.2			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	503740	88.9			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.894	453411	69.2			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1235589	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.954	0.040	1.008	495976	92.4			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.008	2468131	77.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.337	0.034	1.084	1634285	69.2			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.105	501386	82.2			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.125	440602	90.8			
13 3,4-Dinitrotoluene										
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.021	0.034	0.844	1516148	84.9			
15 2,3-Dinitrotoluene										
3	182.0		6.391							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.594	0.060	0.928	2194119	99.6			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.745	0.061	0.949	3593942	90.0			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.110	0.060		3754486	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.170	0.061	1.008	1976881	103.2			
20 PETN										
4	61.8	7.677	7.616	0.061	1.000	3188442	108.3			
21 3,5-Dinitrotoluene										
3	182.0		7.778							
22 o-Nitrotoluene										
4	137.0	8.193	8.132	0.061	1.000	803544	100.6			
23 p-Nitrotoluene										
4	137.0	8.739	8.648	0.091	1.000	691659	97.1			
24 m-Nitrotoluene										
4	137.0	9.377	9.316	0.061	1.000	444876	101.1			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.167							

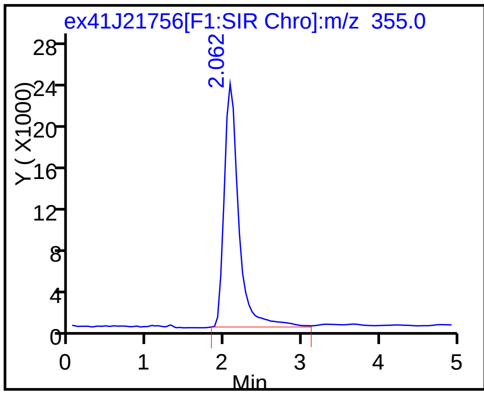
QC Flag Legend

Processing Flags
1 - Missing Peaks

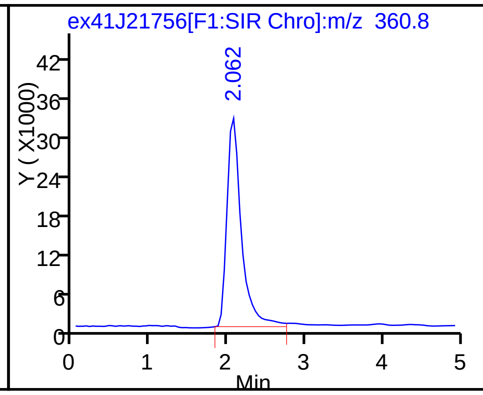
Report Date: 04-Nov-2011 06:46:34 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21756.d

Injection Date:	03-Nov-2011 13:11:08	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94610	Lims Sample ID:	7
Operator ID:		Injection Vol:	40.00 ul

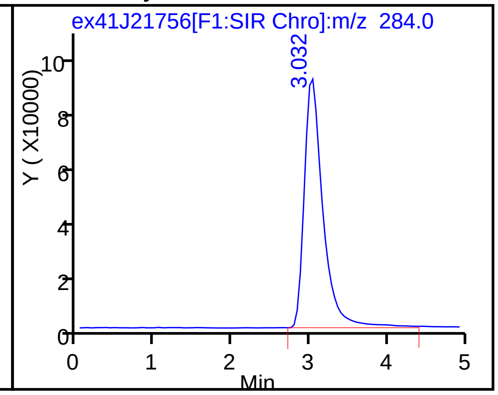
2 HMX



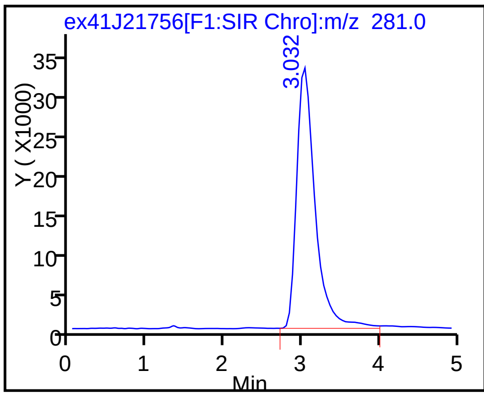
* 1 HMX-13C4



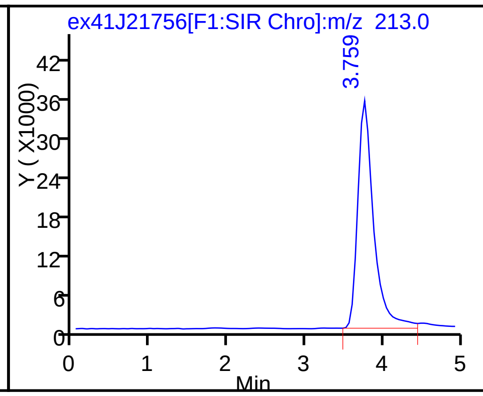
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



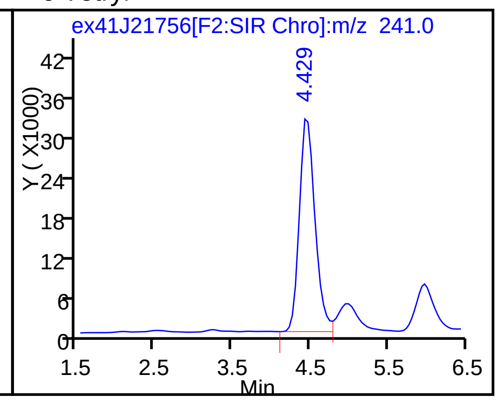
4 RDX



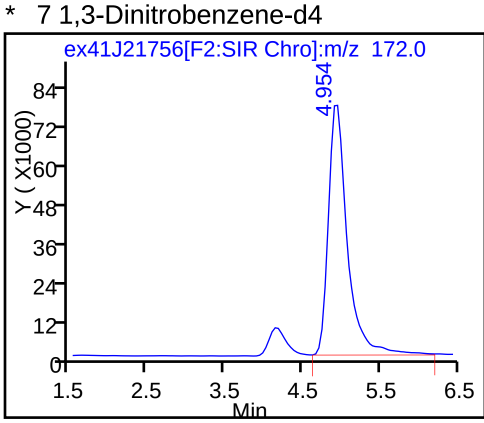
5 1,3,5-Trinitrobenzene



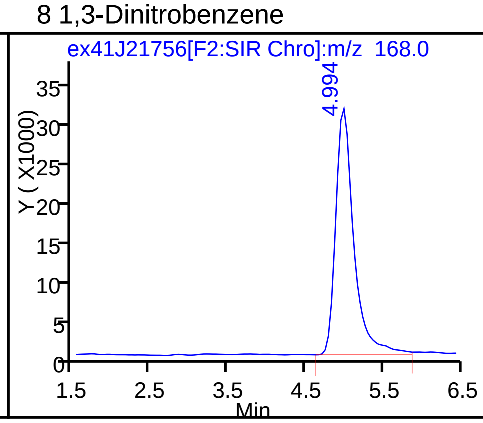
6 Tetryl



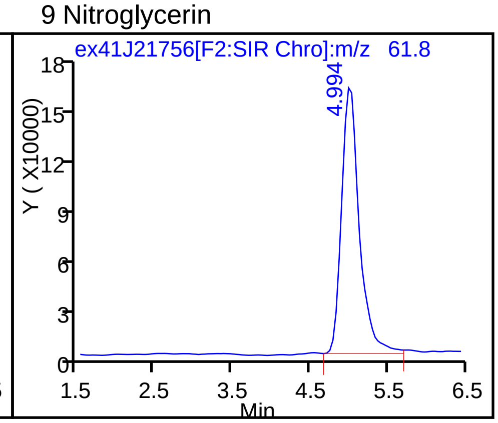
* 7 1,3-Dinitrobenzene-d4



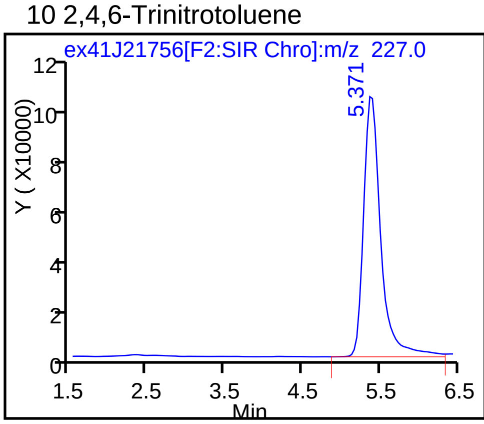
8 1,3-Dinitrobenzene



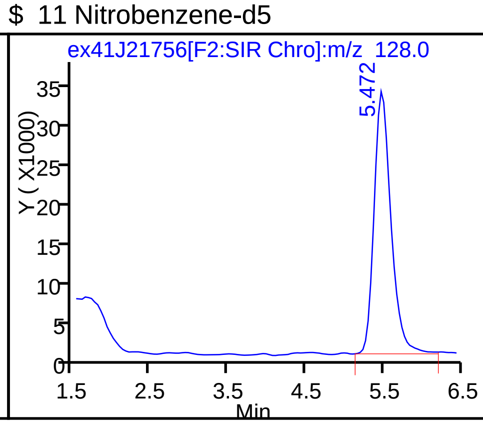
9 Nitroglycerin



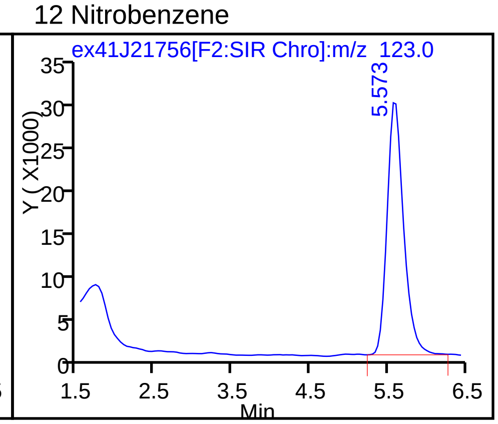
10 2,4,6-Trinitrotoluene



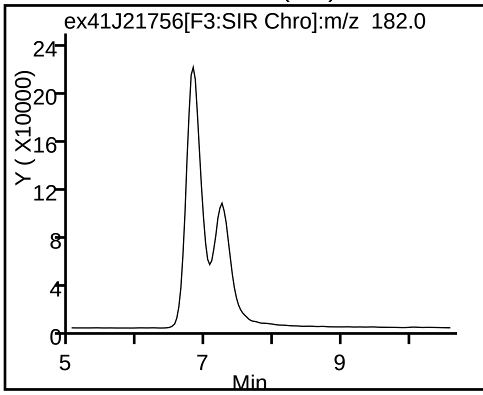
$ 11 Nitrobenzene-d5



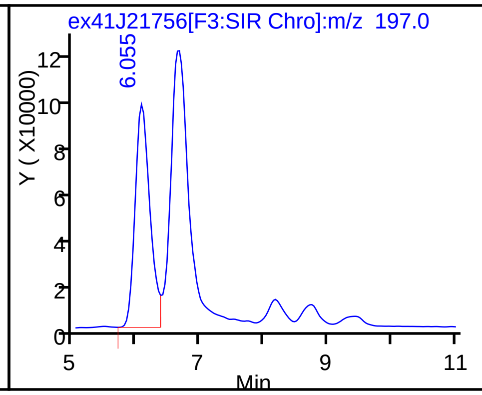
12 Nitrobenzene



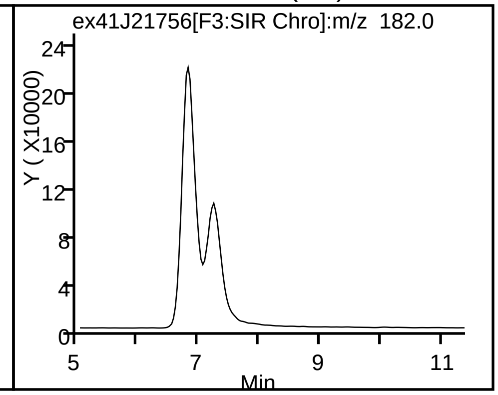
13 3,4-Dinitrotoluene (ND)



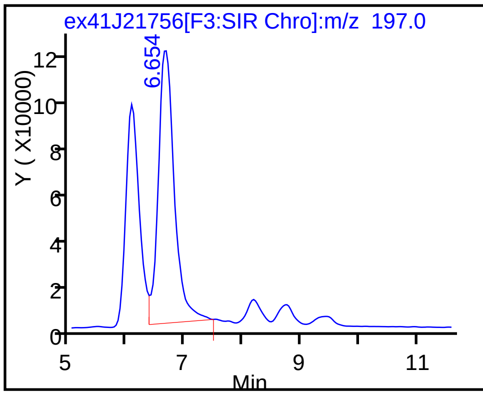
14 4-Amino-2,6-dinitrotoluene



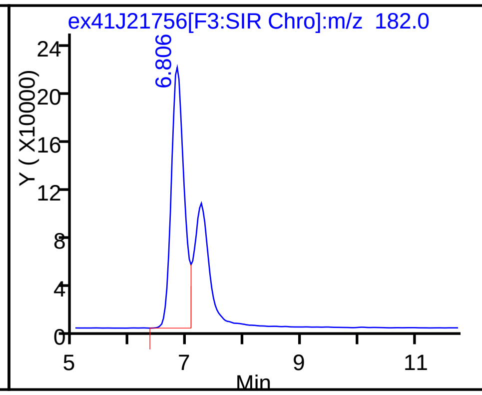
15 2,3-Dinitrotoluene (ND)



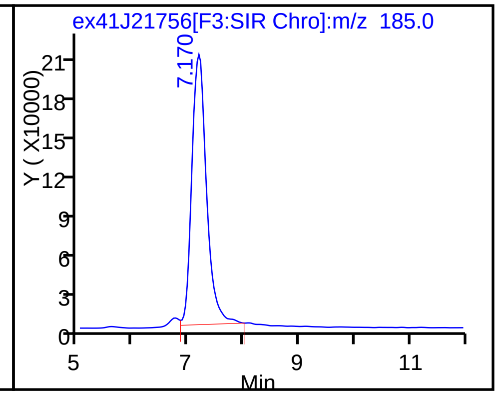
16 2-Amino-4,6-dinitrotoluene



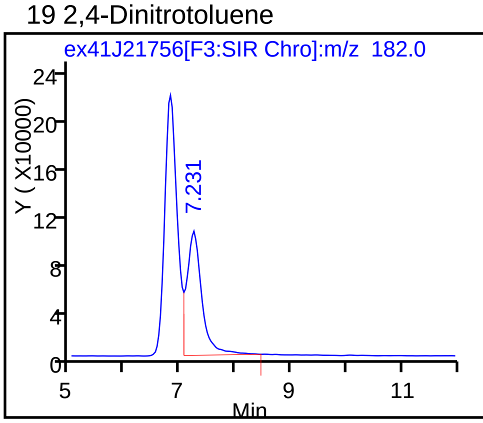
17 2,6-Dinitrotoluene



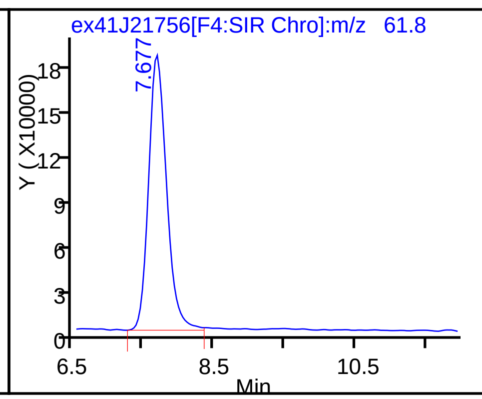
* 18 2,4-dinitrotoluene-d3



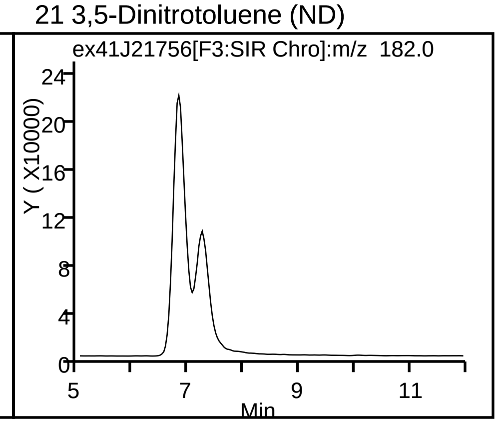
19 2,4-Dinitrotoluene



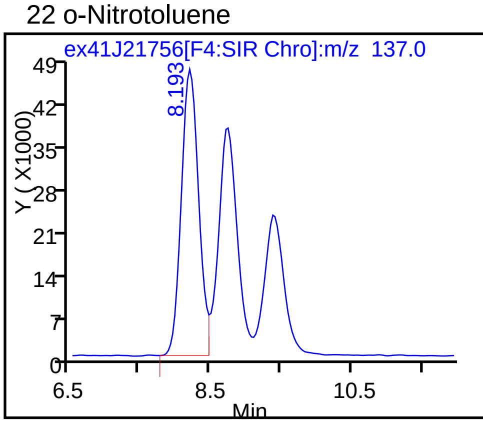
20 PETN



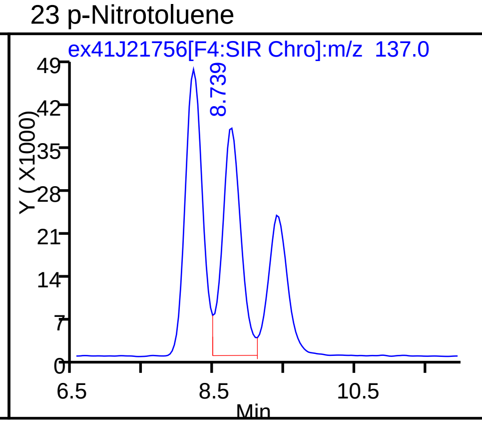
21 3,5-Dinitrotoluene (ND)



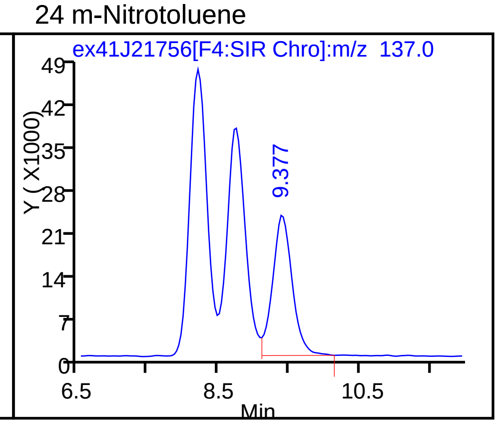
22 o-Nitrotoluene



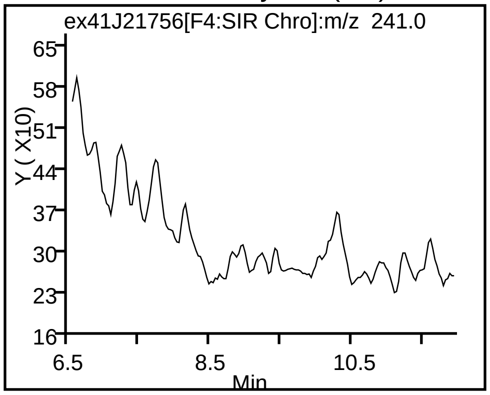
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP23 SB043 MSD   Lab Sample ID: 280-21902-52 MSD

Matrix: Solid   Lab File ID: ex41J21782.d

Analysis Method: 8321B   Date Collected: 10/18/2011 14:50

Extraction Method: 8330B   Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.54(g)   Date Analyzed: 11/03/2011 19:06

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.325		0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.357		0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.253		0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.328		0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.328		0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.433		0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.367		0.095	0.012	0.0054
99-08-1	3-Nitrotoluene	0.373		0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.370		0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.364		0.095	0.024	0.010
2691-41-0	HMX	0.346		0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.334		0.095	0.012	0.010
55-63-0	Nitroglycerin	0.308		0.095	0.012	0.010
78-11-5	PETN	0.386		0.095	0.012	0.0049
121-82-4	RDX	0.349		0.095	0.012	0.0041
479-45-8	Tetryl	0.249		0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	79		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21782.d		
Lims ID:	280-21902-B-52-H MSD	Client ID:	SB043
Inject. Date:	03-Nov-2011 19:06:48	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	280-21902-B-52-H MSD 280-0002711-033		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	113
Lims Batch ID:	94611	Lims Sample ID:	33
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:50	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	444097	91.2			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		543500	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2405580	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	843490	92.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	629323	85.6			
6 Tetryl										
2	241.0	4.429	4.469	-0.040	0.901	556053	65.5			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.954	-0.041		1604888	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.016	655792	94.0			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	3373956	81.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.100	2040587	66.6			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	619778	78.2			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	554066	87.9			
13 3,4-Dinitrotoluene										
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.848	2229352	97.4			
15 2,3-Dinitrotoluene										
3	182.0		6.459							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									
3	197.0	6.654	6.654	0.000	0.932	3226267	114.2			
17	2,6-Dinitrotoluene									
3	182.0	6.806	6.806	0.000	0.953	4425835	86.4			
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.140	7.140	0.000		4813928	250.0			
19	2,4-Dinitrotoluene									
3	182.0	7.231	7.231	0.000	1.013	2125416	86.5			
20	PETN									
4	61.8	7.677	7.677	0.000	1.000	3837593	101.6			
21	3,5-Dinitrotoluene									
3	182.0		7.839							
22	o-Nitrotoluene									
4	137.0	8.193	8.193	0.000	1.000	990842	96.7			
23	p-Nitrotoluene									
4	137.0	8.739	8.739	0.000	1.000	876566	96.0			
24	m-Nitrotoluene									
4	137.0	9.377	9.408	-0.031	1.000	553633	98.2			
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.258							

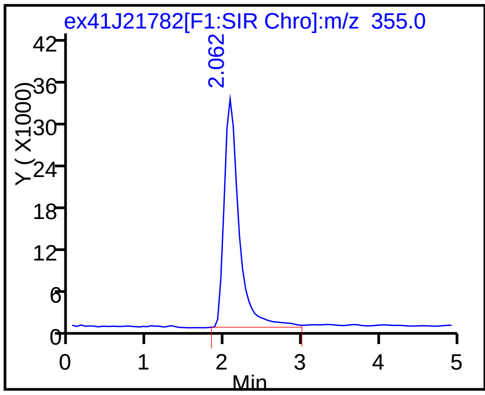
QC Flag Legend

Processing Flags
1 - Missing Peaks

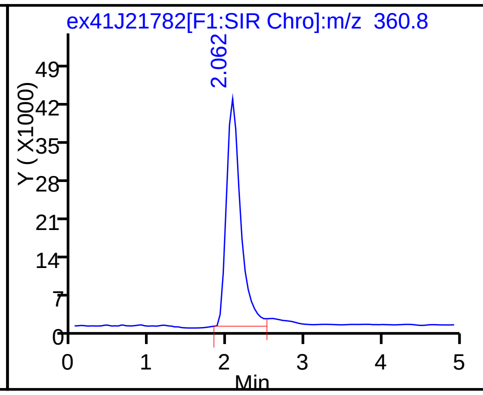
Report Date: 04-Nov-2011 06:46:54 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21782.d

Injection Date:	03-Nov-2011 19:06:48	Limit Group:	LC - 8321A Expl
Client ID:	SB043	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	33
Operator ID:		Injection Vol:	40.00 ul

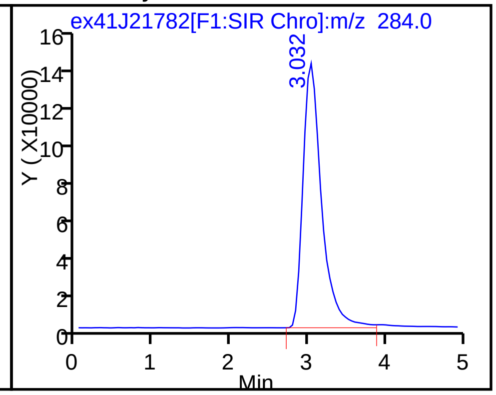
2 HMX



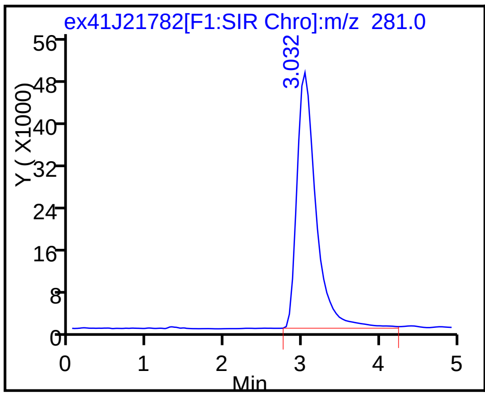
* 1 HMX-13C4



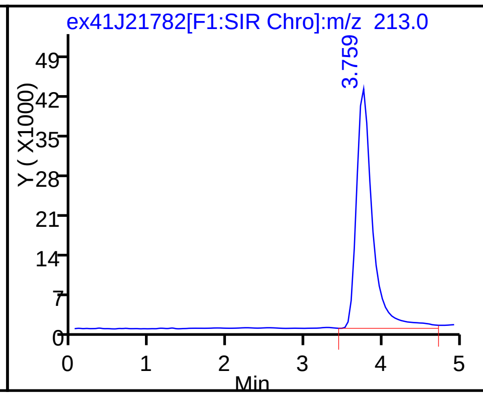
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



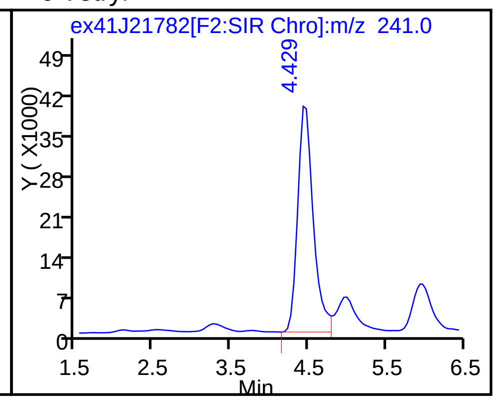
4 RDX



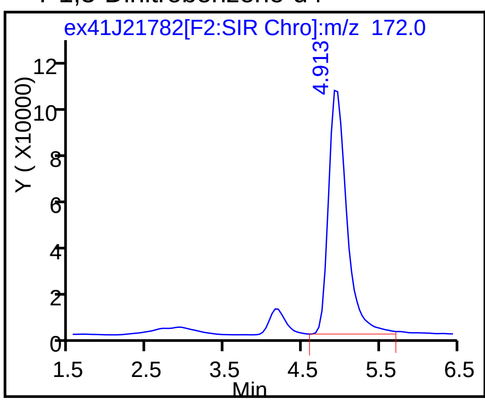
5 1,3,5-Trinitrobenzene



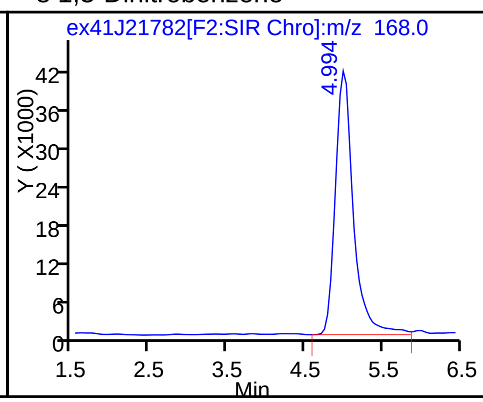
6 Tetryl



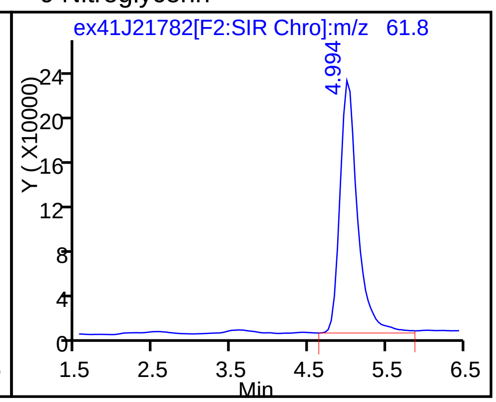
* 7 1,3-Dinitrobenzene-d4



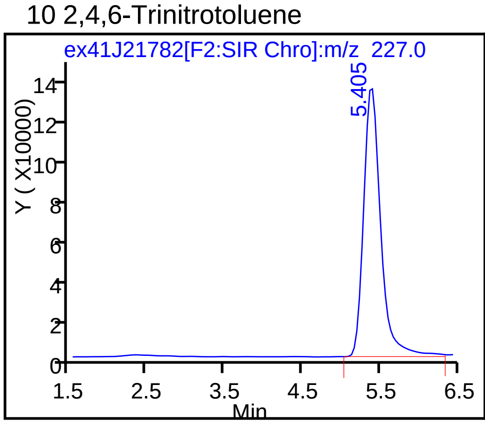
8 1,3-Dinitrobenzene



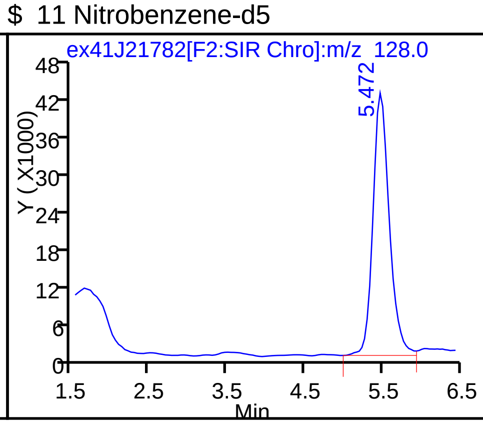
9 Nitroglycerin



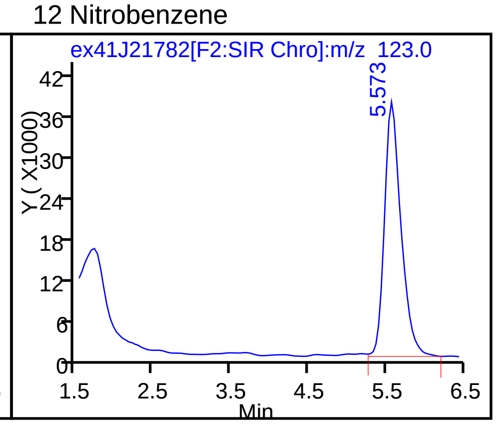
10 2,4,6-Trinitrotoluene



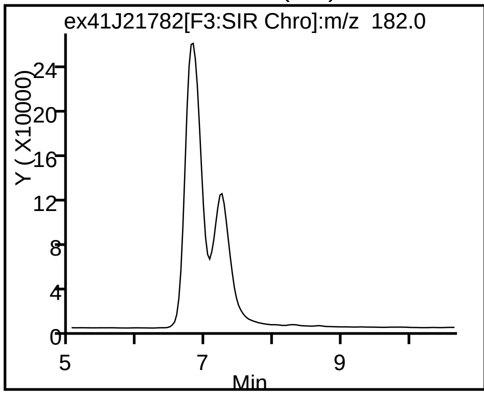
$ 11 Nitrobenzene-d5



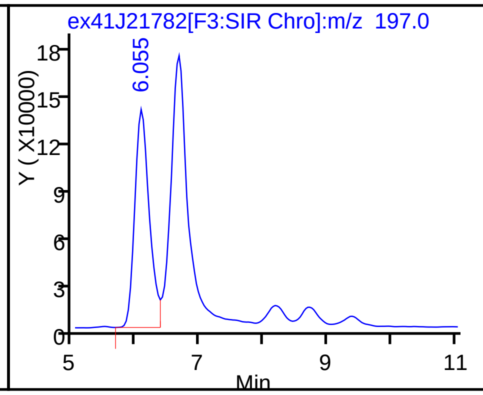
12 Nitrobenzene



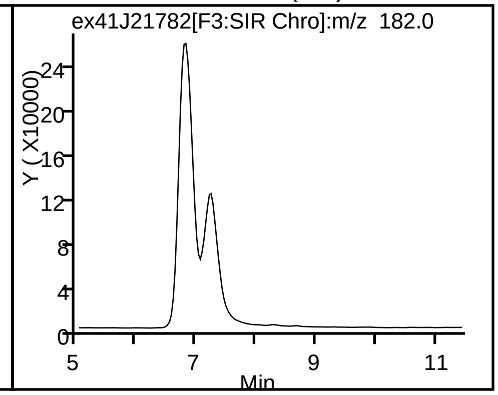
13 3,4-Dinitrotoluene (ND)



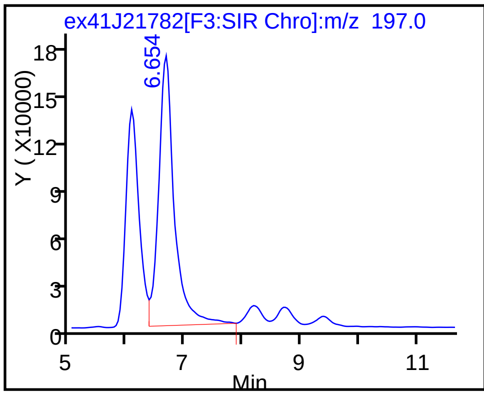
14 4-Amino-2,6-dinitrotoluene



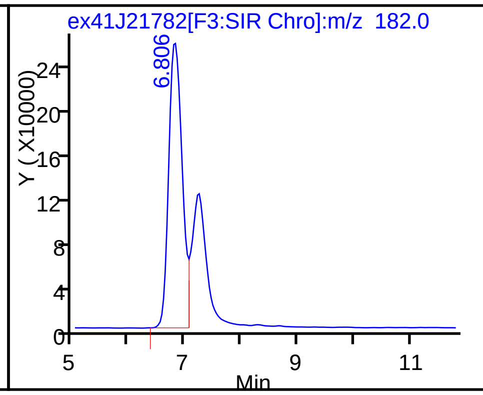
15 2,3-Dinitrotoluene (ND)



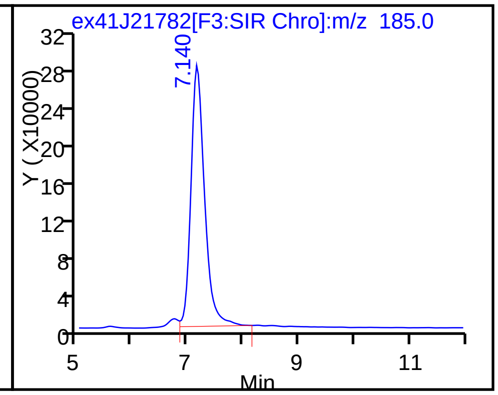
16 2-Amino-4,6-dinitrotoluene



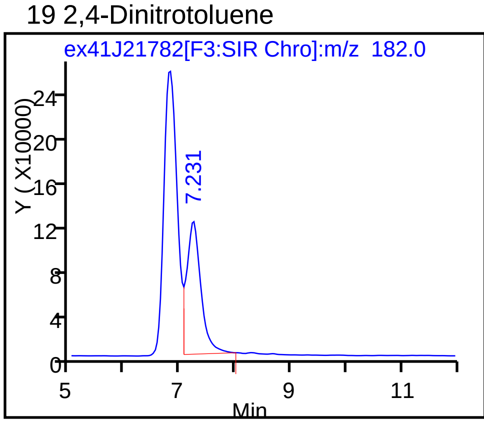
17 2,6-Dinitrotoluene



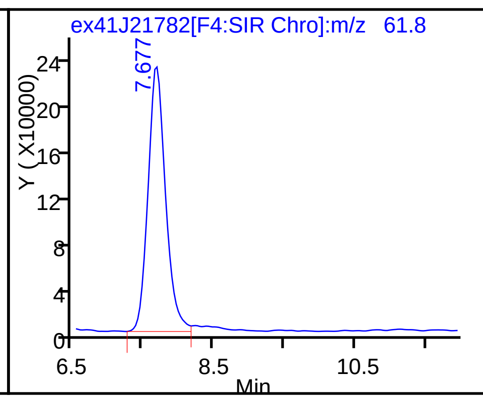
* 18 2,4-dinitrotoluene-d3



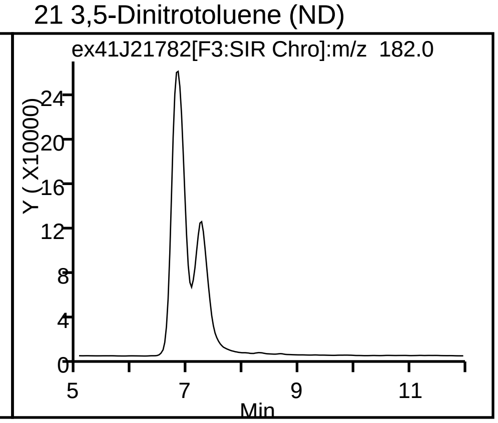
19 2,4-Dinitrotoluene



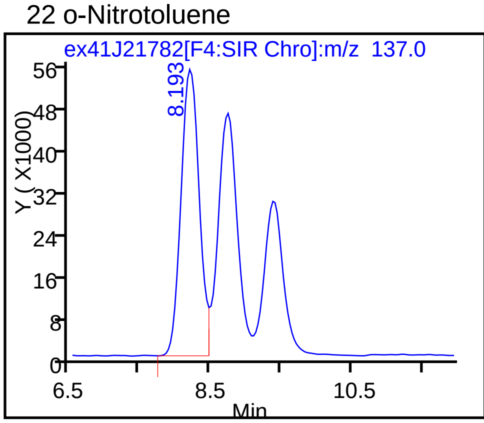
20 PETN



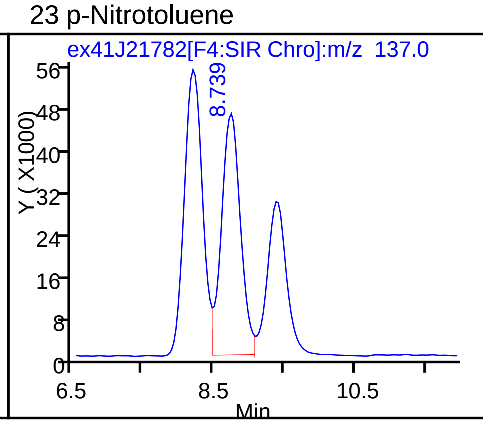
21 3,5-Dinitrotoluene (ND)



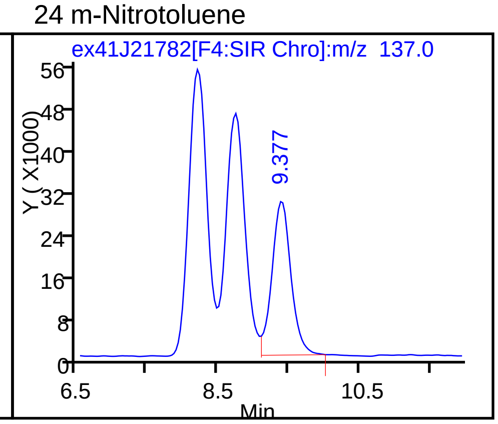
22 o-Nitrotoluene



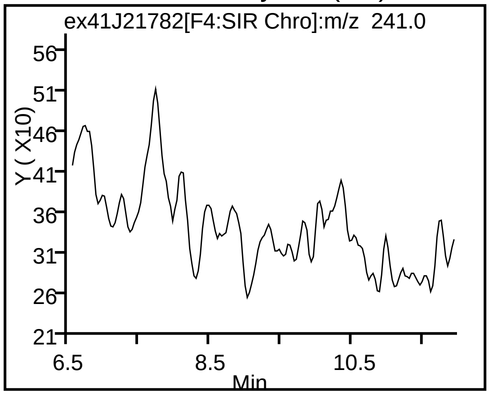
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP02 IS006 MSD | Lab Sample ID: 280-21902-58 MSD

Matrix: Solid | Lab File ID: ex41J21659.d

Analysis Method: 8321B | Date Collected: 10/17/2011 15:17

Extraction Method: 8330B | Date Extracted: 10/27/2011 22:10

Sample wt/vol: 10.15(g) | Date Analyzed: 11/02/2011 09:47

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 94252 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.296		0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.335		0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.191	J	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.346		0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.354		0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.359		0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.355		0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.340		0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.333		0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.314		0.099	0.025	0.011
2691-41-0	HMX	0.324		0.099	0.012	0.0057
98-95-3	Nitrobenzene	0.307		0.099	0.012	0.011
55-63-0	Nitroglycerin	0.322		0.099	0.012	0.010
78-11-5	PETN	0.367		0.099	0.012	0.0051
121-82-4	RDX	0.365		0.099	0.012	0.0043
479-45-8	Tetryl	0.165		0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21659.d		
Lims ID:	280-21902-A-58-F MSD	Client ID:	
Inject. Date:	02-Nov-2011 09:47:27	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	280-21902-A-58-F MSD 280-0002689-183		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	116
Lims Batch ID:	94252	Lims Sample ID:	183
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111031-2689.b\8321exp4-25.m		
Last Update:	02-Nov-2011 10:22:30	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	292815	82.1			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		398250	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1581704	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	557449	92.5			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.759	0.040	1.000	456267	75.0			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.903	290020	41.8			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1333363	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	5.035	-0.001	1.008	492721	85.1			
9 Nitroglycerin										
2	61.8	5.068	5.035	0.033	1.015	2818915	81.6			
10 2,4,6-Trinitrotoluene										
2	227.0	5.438	5.439	-0.001	1.089	1229964	48.5			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	499294	75.8			
12 Nitrobenzene										
2	123.0	5.640	5.607	0.033	1.129	408379	78.0			
13 3,4-Dinitrotoluene										
3	182.0		5.684							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.122	-0.034	0.842	1547341	84.5			
15 2,3-Dinitrotoluene										
3	182.0		6.492							

Report Date: 02-Nov-2011 10:22:39   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21659.d

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.685	0.030	0.929	2058450	91.1			
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.950	3681932	89.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		3850120	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.262	0.030	1.008	1725793	87.8			
20 PETN										
4	61.8	7.768	7.768	0.000	1.000	2822603	93.2			
21 3,5-Dinitrotoluene										
3	182.0		7.869							
22 o-Nitrotoluene										
4	137.0	8.284	8.254	0.030	1.000	739350	90.2			
23 p-Nitrotoluene										
4	137.0	8.830	8.800	0.030	1.000	581222	79.7			
24 m-Nitrotoluene										
4	137.0	9.499	9.468	0.031	1.000	389587	86.4			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.349							

QC Flag Legend

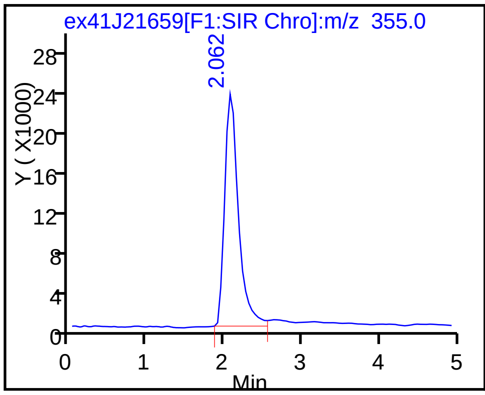
Processing Flags
1 - Missing Peaks

Report Date: 02-Nov-2011 10:22:39 Chrom Revision: 1.2 13-Jul-2011 10:43:06

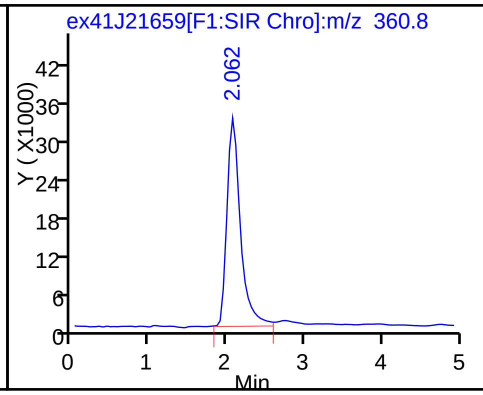
Data File: \\denchrom\ChromData\LC_LCMS4\20111031-2689.b\ex41J21659.d

Injection Date:	02-Nov-2011 09:47:27	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	94252	Lims Sample ID:	183
Operator ID:		Injection Vol:	40.00 ul

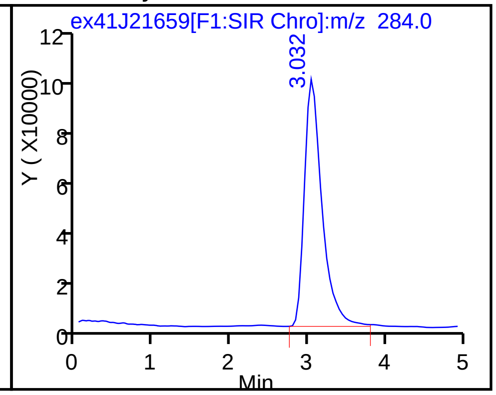
2 HMX



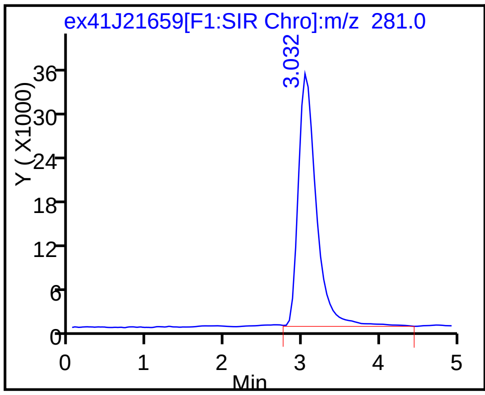
* 1 HMX-13C4



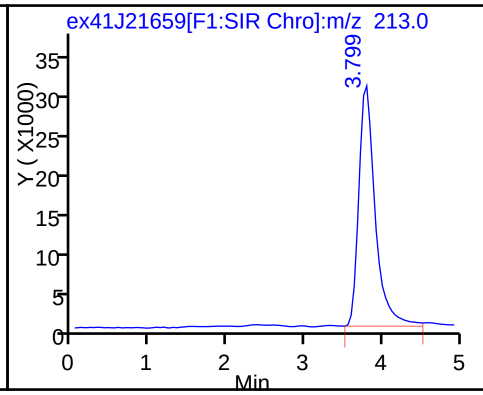
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



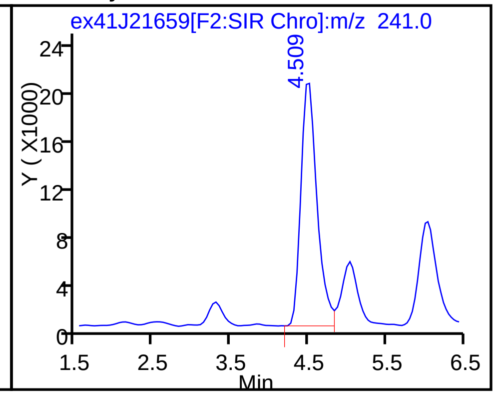
4 RDX



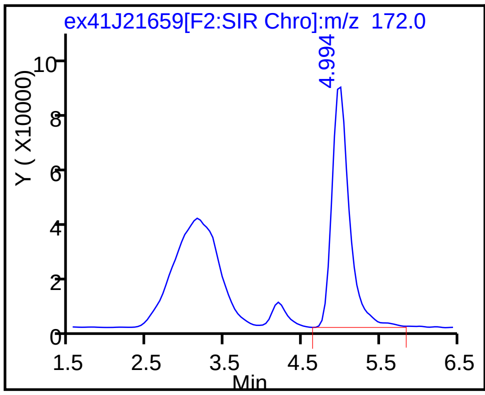
5 1,3,5-Trinitrobenzene



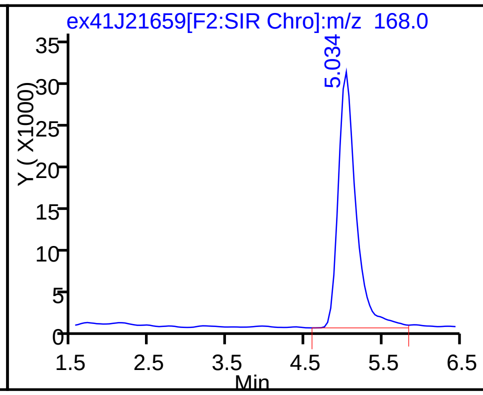
6 Tetryl



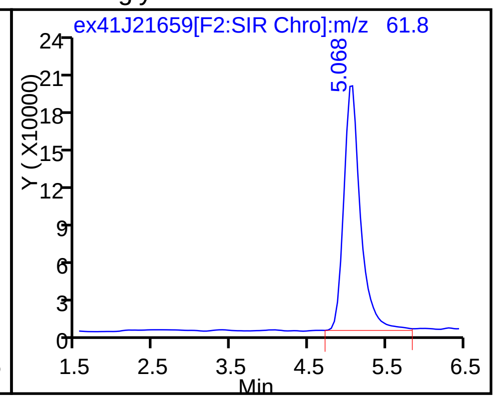
* 7 1,3-Dinitrobenzene-d4



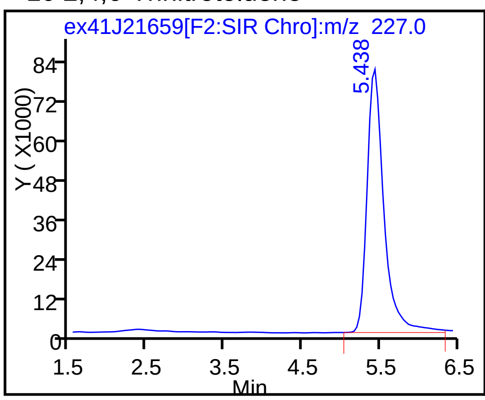
8 1,3-Dinitrobenzene



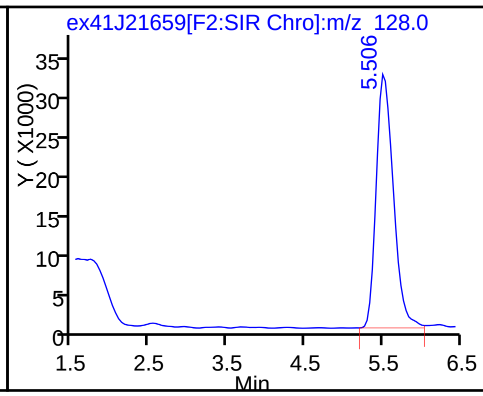
9 Nitroglycerin



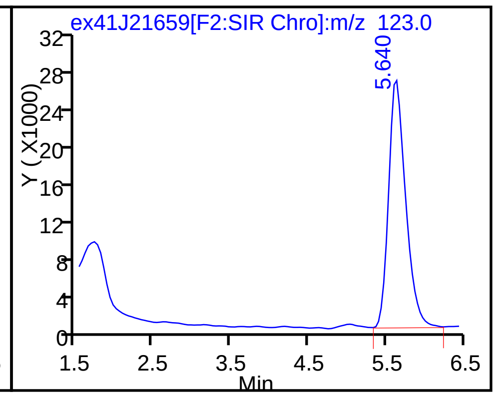
10 2,4,6-Trinitrotoluene



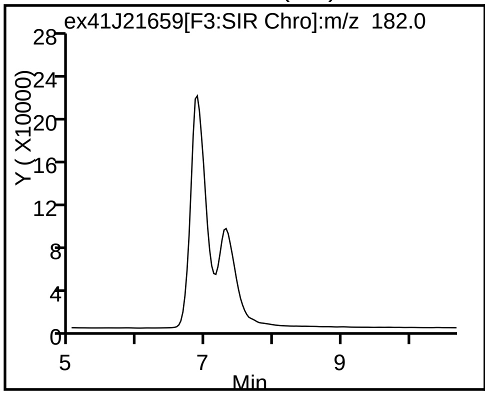
$ 11 Nitrobenzene-d5



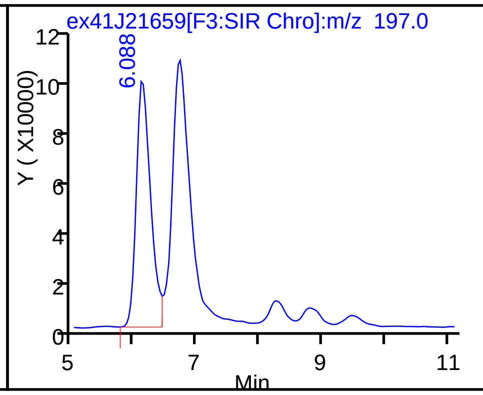
12 Nitrobenzene



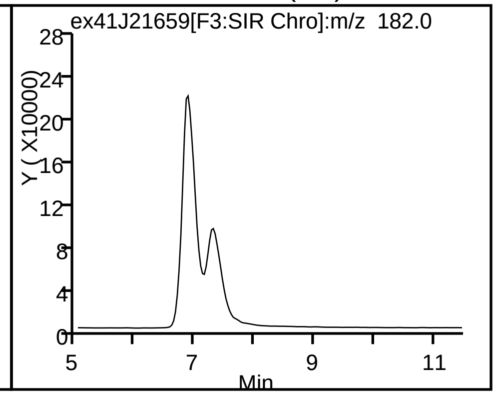
13 3,4-Dinitrotoluene (ND)



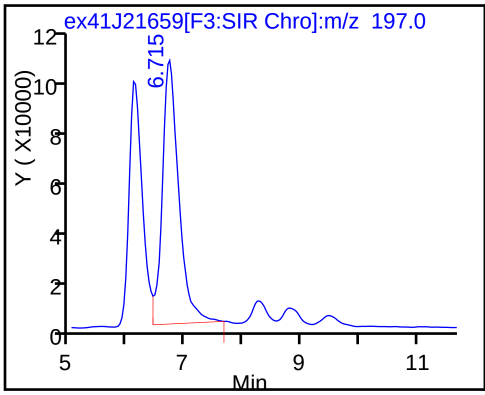
14 4-Amino-2,6-dinitrotoluene



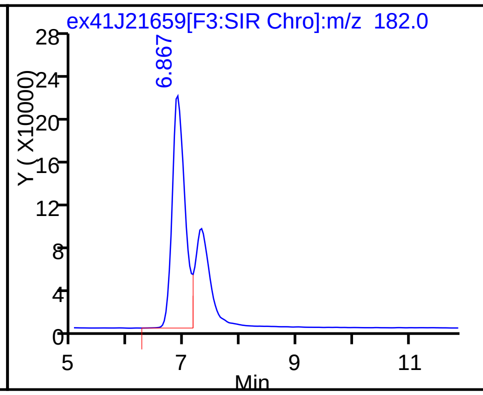
15 2,3-Dinitrotoluene (ND)



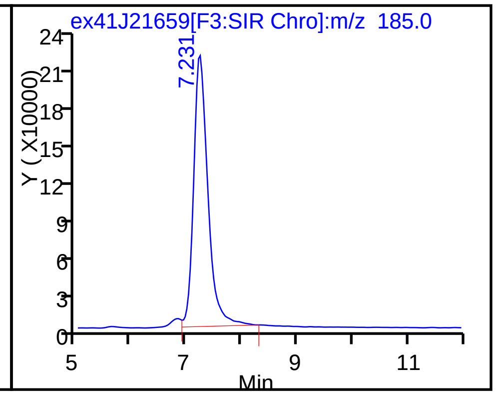
16 2-Amino-4,6-dinitrotoluene



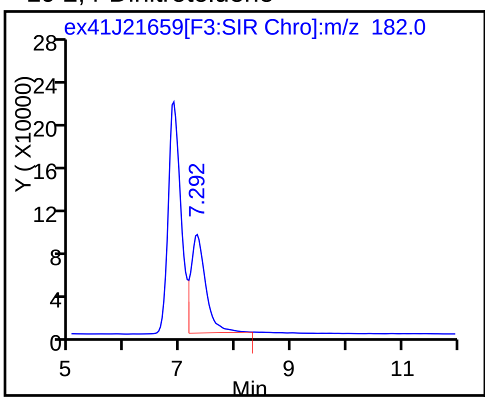
17 2,6-Dinitrotoluene



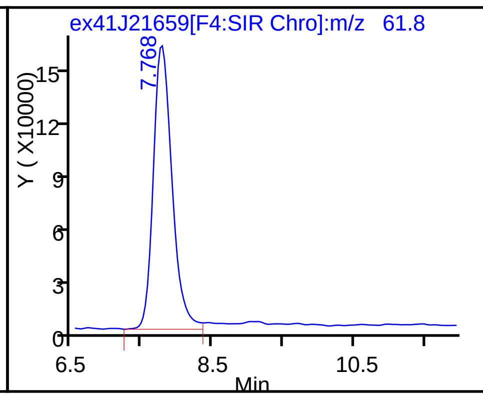
* 18 2,4-dinitrotoluene-d3



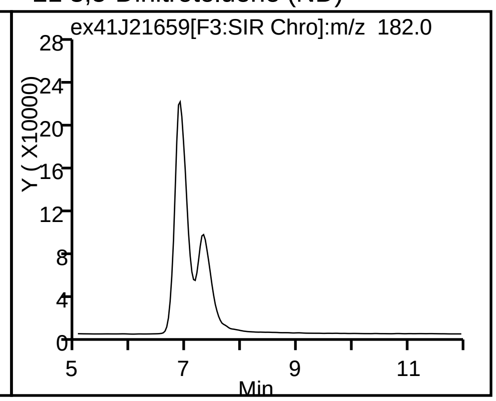
19 2,4-Dinitrotoluene



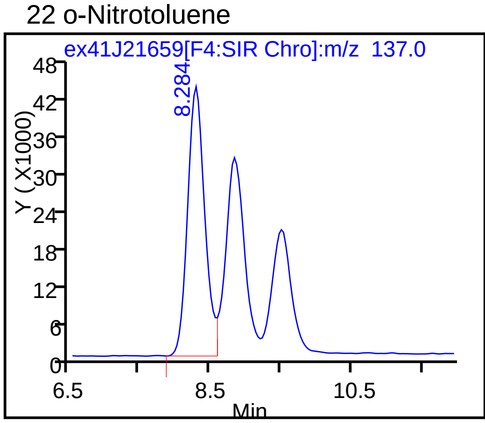
20 PETN



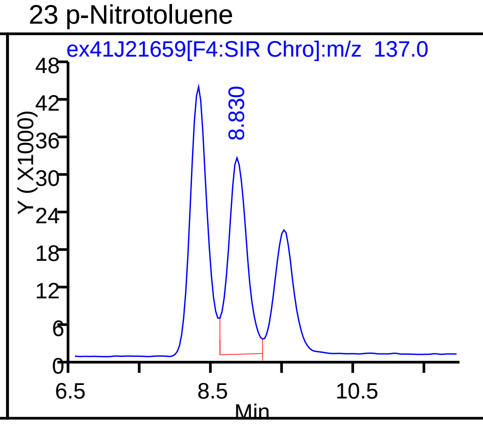
21 3,5-Dinitrotoluene (ND)



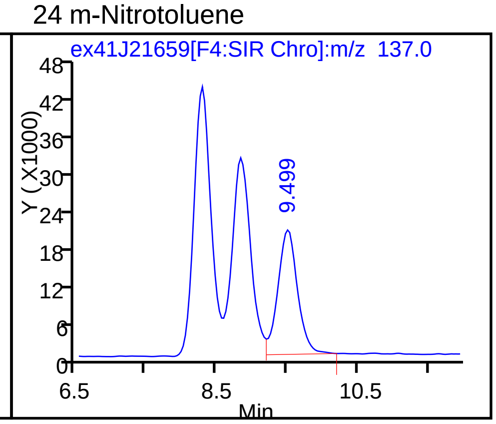
22 o-Nitrotoluene



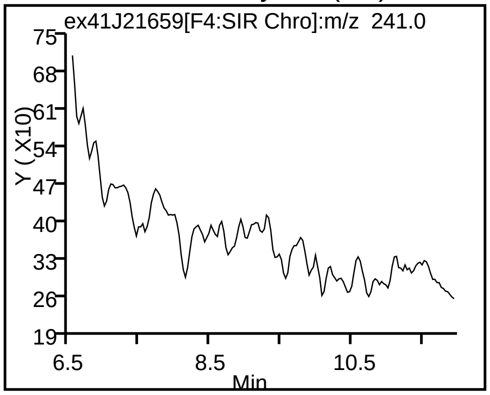
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Client Sample ID: CP13 SB020 MSD   Lab Sample ID: 280-21902-61 MSD

Matrix: Solid   Lab File ID: ex41J21787.d

Analysis Method: 8321B   Date Collected: 10/17/2011 12:50

Extraction Method: 8330B   Date Extracted: 10/25/2011 19:45

Sample wt/vol: 10.04(g)   Date Analyzed: 11/03/2011 20:14

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 94611   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.314		0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.349		0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.240		0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.357		0.10	0.012	0.0082
606-20-2	2,6-Dinitrotoluene	0.347		0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.372		0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.386		0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.375		0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.366		0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.368		0.10	0.025	0.011
2691-41-0	HMX	0.312		0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.328		0.10	0.012	0.011
55-63-0	Nitroglycerin	0.351		0.10	0.012	0.010
78-11-5	PETN	0.412		0.10	0.012	0.0051
121-82-4	RDX	0.376		0.10	0.012	0.0043
479-45-8	Tetryl	0.219		0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21787.d		
Lims ID:	280-21902-B-61-H MSD	Client ID:	SB020
Inject. Date:	03-Nov-2011 20:14:38	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	280-21902-B-61-H MSD 280-0002711-038		
Misc. Info.:	ex41J21 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	118
Lims Batch ID:	94611	Lims Sample ID:	38
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111103-2711.b\8321exp4-25.m		
Last Update:	04-Nov-2011 06:46:50	Calib Date:	21-Oct-2011 10:50:13
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111021-2644.b\ex41J21009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	397952	78.2			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		568708	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		1916462	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	690008	94.5			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	585306	78.8			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	470254	55.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1625734	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	619035	87.7			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.008	3714685	88.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	1871168	60.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	615364	76.6			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.125	525359	82.3			
13 3,4-Dinitrotoluene										
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.055	0.033	0.849	2113353	91.9			
15 2,3-Dinitrotoluene										
3	182.0		6.459							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.928	2648002	93.3			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.949	4488800	87.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4836949	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.231	0.000	1.008	2210769	89.6			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	3922512	103.3			
21 3,5-Dinitrotoluene										
3	182.0		7.839							
22 o-Nitrotoluene										
4	137.0	8.193	8.193	0.000	1.000	997742	96.9			
23 p-Nitrotoluene										
4	137.0	8.739	8.739	0.000	1.000	847166	92.4			
24 m-Nitrotoluene										
4	137.0	9.408	9.408	0.000	1.000	533632	94.2			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

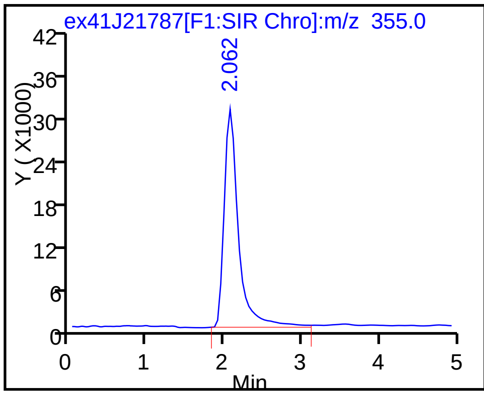
QC Flag Legend

Processing Flags
1 - Missing Peaks

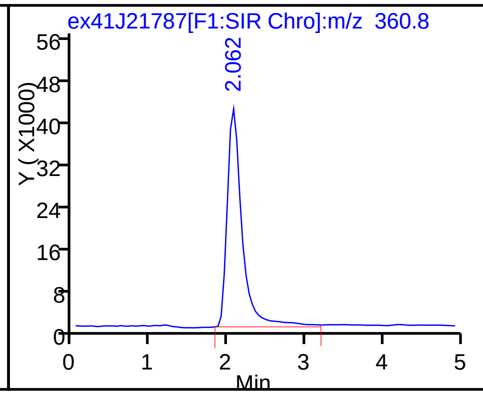
Report Date: 04-Nov-2011 06:46:58 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111103-2711.b\ex41J21787.d

Injection Date:	03-Nov-2011 20:14:38	Limit Group:	LC - 8321A Expl
Client ID:	SB020	Instrument ID:	LC_LCMS4
Lims Batch ID:	94611	Lims Sample ID:	38
Operator ID:		Injection Vol:	40.00 ul

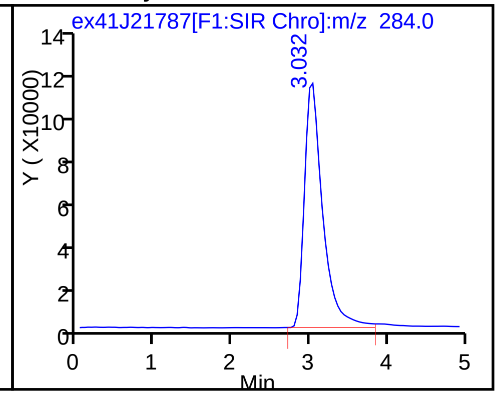
2 HMX



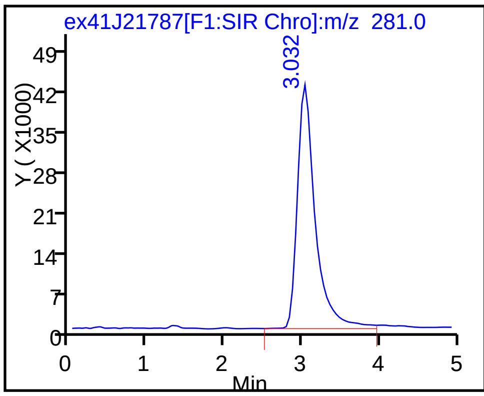
* 1 HMX-13C4



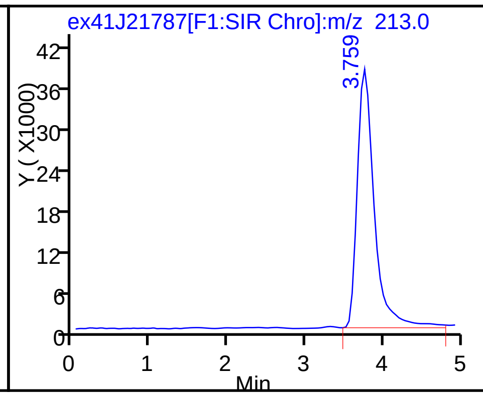
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



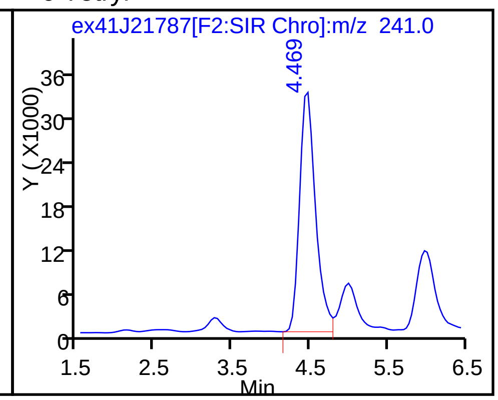
4 RDX



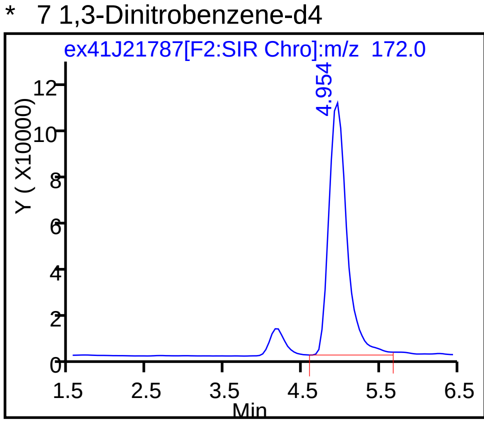
5 1,3,5-Trinitrobenzene



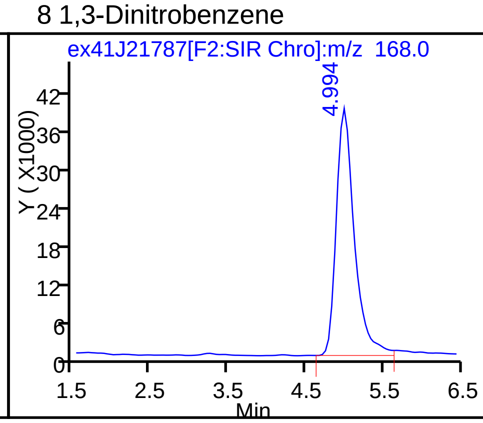
6 Tetryl



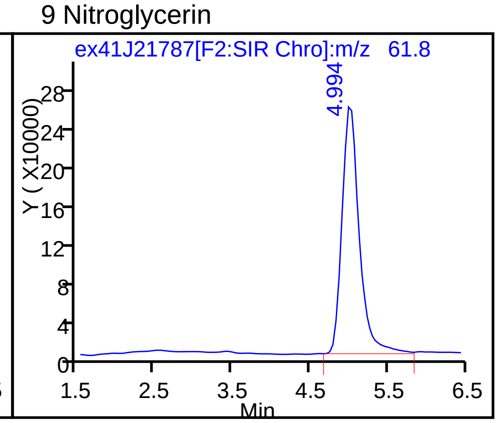
* 7 1,3-Dinitrobenzene-d4



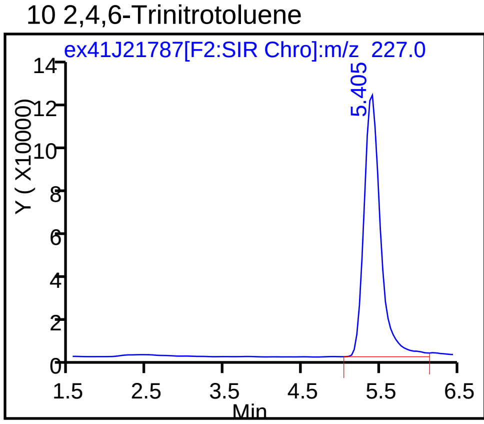
8 1,3-Dinitrobenzene



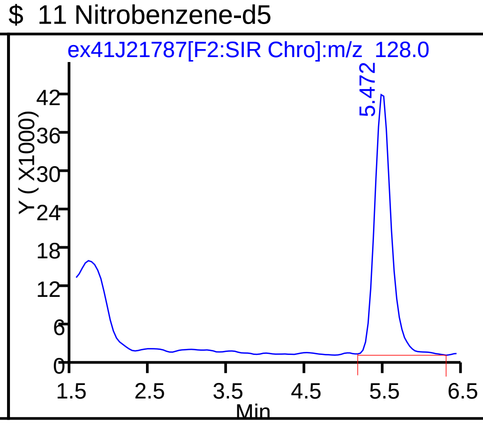
9 Nitroglycerin



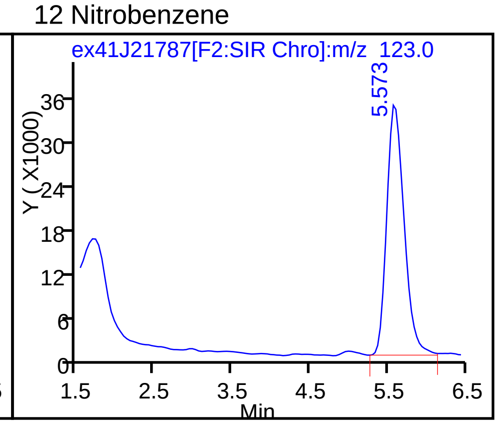
10 2,4,6-Trinitrotoluene



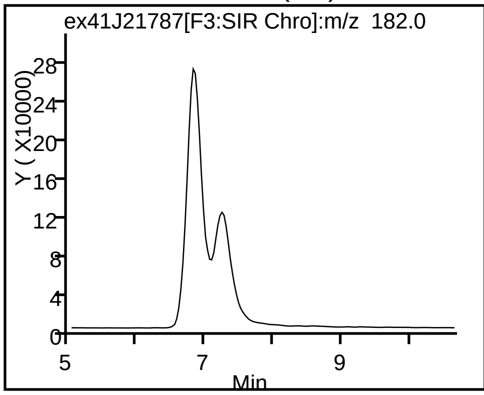
$ 11 Nitrobenzene-d5



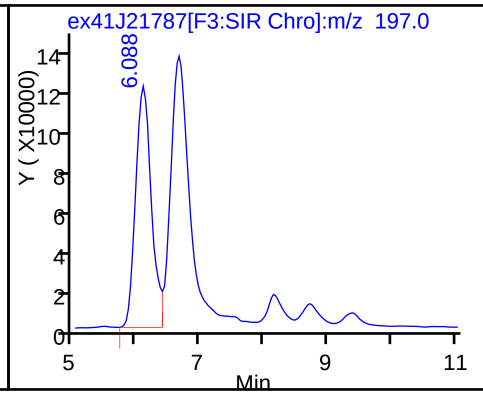
12 Nitrobenzene



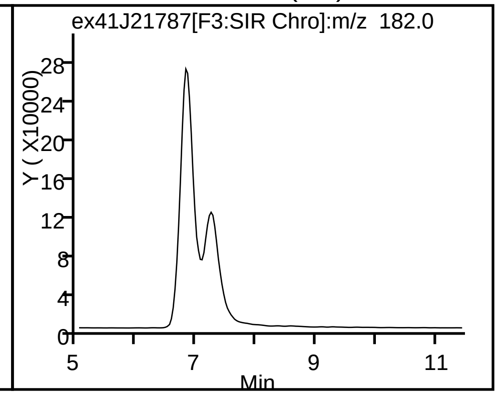
13 3,4-Dinitrotoluene (ND)



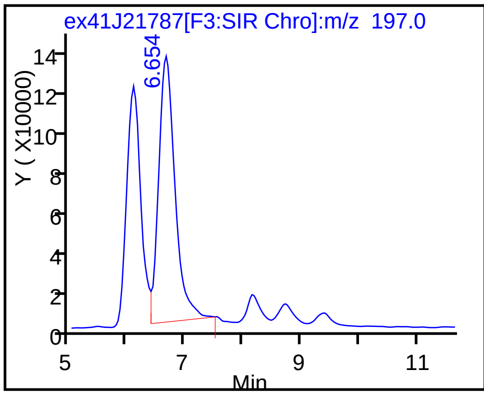
14 4-Amino-2,6-dinitrotoluene



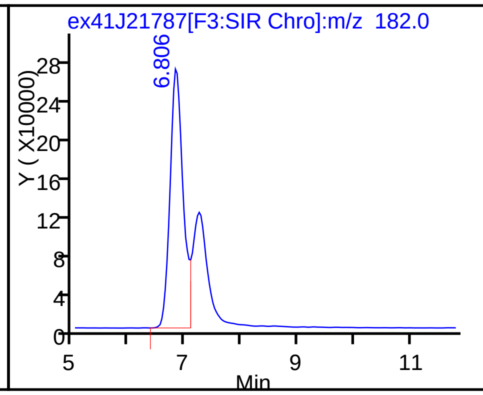
15 2,3-Dinitrotoluene (ND)



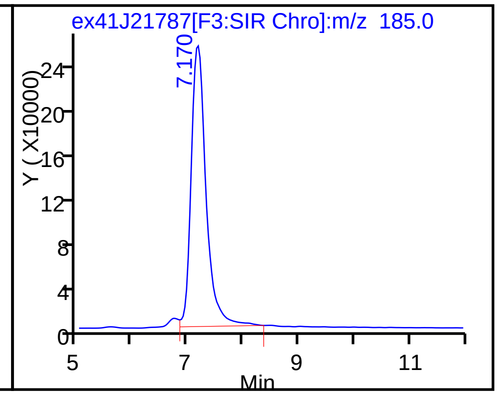
16 2-Amino-4,6-dinitrotoluene



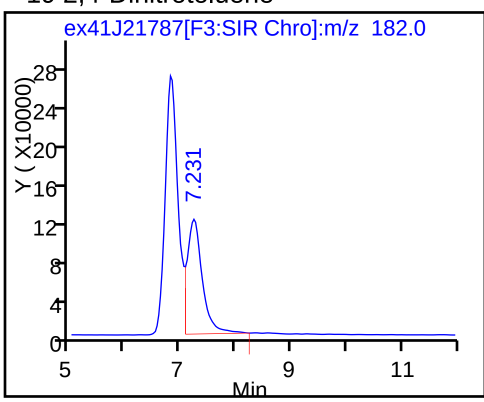
17 2,6-Dinitrotoluene



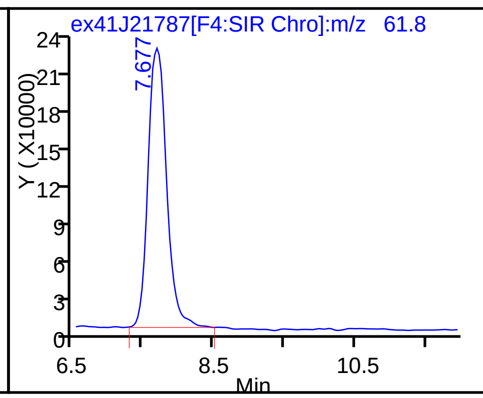
* 18 2,4-dinitrotoluene-d3



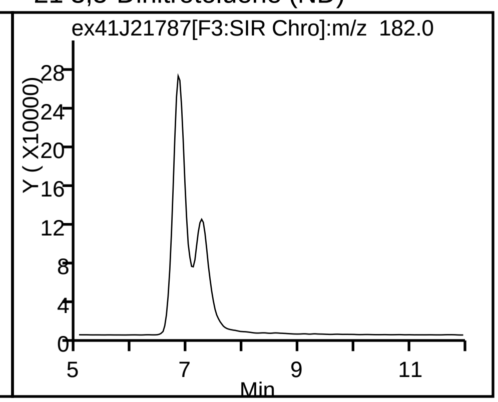
19 2,4-Dinitrotoluene



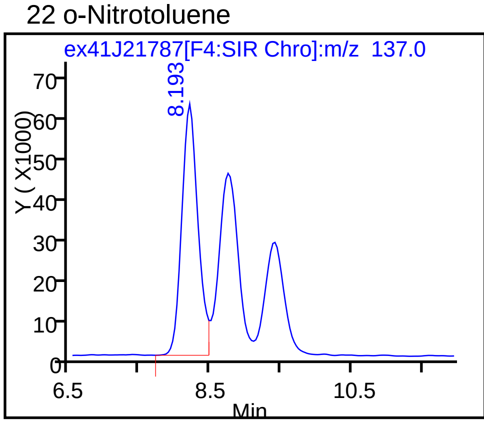
20 PETN



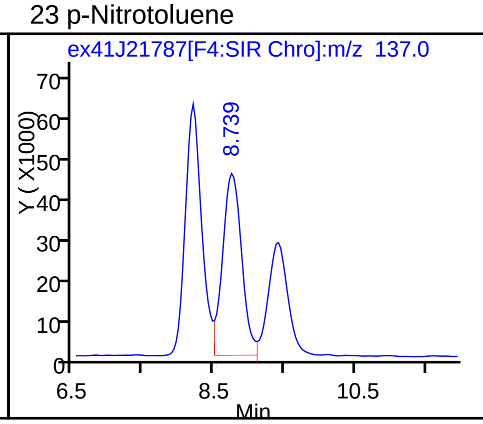
21 3,5-Dinitrotoluene (ND)



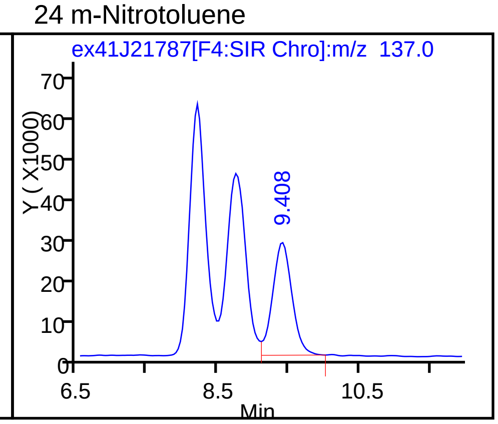
22 o-Nitrotoluene



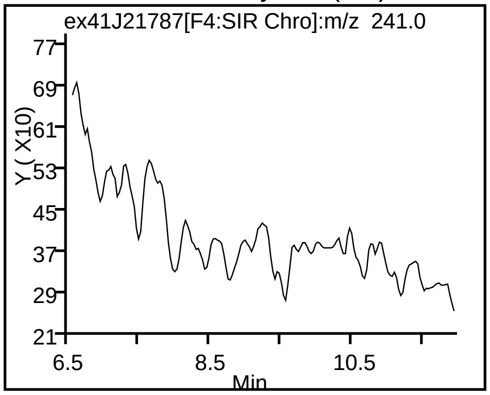
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Start Date: 10/21/2011 09:28

Analysis Batch Number: 92354   End Date: 10/21/2011 11:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 280-92354/1 IC		10/21/2011 09:28	1	ex41J21003.d	IonPac 2(mm)
STD010 280-92354/2 IC		10/21/2011 09:41	1	ex41J21004.d	IonPac 2(mm)
STD025 280-92354/3 IC		10/21/2011 09:55	1	ex41J21005.d	IonPac 2(mm)
STD050 280-92354/4 IC		10/21/2011 10:08	1	ex41J21006.d	IonPac 2(mm)
STD100 280-92354/5 ICISAV		10/21/2011 10:22	1	ex41J21007.d	IonPac 2(mm)
STD200 280-92354/6 IC		10/21/2011 10:36	1	ex41J21008.d	IonPac 2(mm)
STD300 280-92354/7 IC		10/21/2011 10:50	1	ex41J21009.d	IonPac 2(mm)
ICB 280-92354/8		10/21/2011 11:04	1	ex41J21010.d	IonPac 2(mm)
ZZZZZ		10/21/2011 11:17	1		IonPac 2(mm)
ICV 280-92354/10		10/21/2011 11:31	1	ex41J21012.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4 Start Date: 11/02/2011 05:28

Analysis Batch Number: 94252 End Date: 11/02/2011 10:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-94252/164		11/02/2011 05:28	1	ex41J21640.d	IonPac 2(mm)
MB 280-93548/1-A		11/02/2011 05:42	1	ex41J21641.d	IonPac 2(mm)
LCS 280-93548/2-A		11/02/2011 05:55	1	ex41J21642.d	IonPac 2(mm)
GB 280-92116/1-B		11/02/2011 06:09	1	ex41J21643.d	IonPac 2(mm)
LCSSRM 280-92116/2-B		11/02/2011 06:23	1	ex41J21644.d	IonPac 2(mm)
ZZZZZ		11/02/2011 06:36	1		IonPac 2(mm)
ZZZZZ		11/02/2011 06:50	1		IonPac 2(mm)
ZZZZZ		11/02/2011 07:03	1		IonPac 2(mm)
ZZZZZ		11/02/2011 07:17	1		IonPac 2(mm)
ZZZZZ		11/02/2011 07:30	1		IonPac 2(mm)
ZZZZZ		11/02/2011 07:44	1		IonPac 2(mm)
CCV 280-94252/175		11/02/2011 07:57	1	ex41J21651.d	IonPac 2(mm)
280-21902-53	CP03 IS009	11/02/2011 08:11	1	ex41J21652.d	IonPac 2(mm)
280-21902-54	CP03 IS008	11/02/2011 08:25	1	ex41J21653.d	IonPac 2(mm)
280-21902-55	CP03 IS007	11/02/2011 08:39	1	ex41J21654.d	IonPac 2(mm)
280-21902-56	CP02 IS004	11/02/2011 08:52	1	ex41J21655.d	IonPac 2(mm)
280-21902-57	CP02 IS005	11/02/2011 09:06	1	ex41J21656.d	IonPac 2(mm)
280-21902-58	CP02 IS006	11/02/2011 09:20	1	ex41J21657.d	IonPac 2(mm)
280-21902-58 MS	CP02 IS006 MS	11/02/2011 09:33	1	ex41J21658.d	IonPac 2(mm)
280-21902-58 MSD	CP02 IS006 MSD	11/02/2011 09:47	1	ex41J21659.d	IonPac 2(mm)
CCV 280-94252/184		11/02/2011 10:01	1	ex41J21660.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver　　Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4　　Start Date: 11/03/2011 11:48

Analysis Batch Number: 94610　　End Date: 11/03/2011 17:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-94610/1		11/03/2011 11:48	1	ex41J21750.d	IonPac 2(mm)
MB 280-92995/1-A		11/03/2011 12:02	1	ex41J21751.d	IonPac 2(mm)
LCS 280-92995/2-A		11/03/2011 12:16	1	ex41J21752.d	IonPac 2(mm)
280-21902-21	TP01 SB129	11/03/2011 12:30	1	ex41J21753.d	IonPac 2(mm)
280-21902-22	TP01 SB130	11/03/2011 12:44	1	ex41J21754.d	IonPac 2(mm)
280-21902-22 MS	TP01 SB130 MS	11/03/2011 12:57	1	ex41J21755.d	IonPac 2(mm)
280-21902-22 MSD	TP01 SB130 MSD	11/03/2011 13:11	1	ex41J21756.d	IonPac 2(mm)
280-21902-23	TP01 SB131	11/03/2011 13:24	1	ex41J21757.d	IonPac 2(mm)
280-21902-35	CP27 SB052	11/03/2011 13:38	1	ex41J21758.d	IonPac 2(mm)
CCV 280-94610/10		11/03/2011 13:52	1	ex41J21759.d	IonPac 2(mm)
280-21902-36	CP27 SB053	11/03/2011 14:06	1	ex41J21760.d	IonPac 2(mm)
280-21902-37	CP22 SB040	11/03/2011 14:19	1	ex41J21761.d	IonPac 2(mm)
280-21902-38	CP22 SB041	11/03/2011 14:33	1	ex41J21762.d	IonPac 2(mm)
280-21902-39	CP25 SB048	11/03/2011 14:47	1	ex41J21763.d	IonPac 2(mm)
280-21902-40	CP25 SB049	11/03/2011 15:00	1	ex41J21764.d	IonPac 2(mm)
280-21902-41	CP24 SB046	11/03/2011 15:15	1	ex41J21765.d	IonPac 2(mm)
280-21902-42	CP24 SB047	11/03/2011 15:28	1	ex41J21766.d	IonPac 2(mm)
280-21902-43	CP26 SB050	11/03/2011 15:42	1	ex41J21767.d	IonPac 2(mm)
CCV 280-94610/19		11/03/2011 15:55	1	ex41J21768.d	IonPac 2(mm)
280-21902-44	CP26 SB051	11/03/2011 16:09	1	ex41J21769.d	IonPac 2(mm)
280-21902-45	CP21 SB038	11/03/2011 16:23	1	ex41J21770.d	IonPac 2(mm)
280-21902-46	CP21 SB039	11/03/2011 16:36	1	ex41J21771.d	IonPac 2(mm)
280-21902-47	CP20 SB037	11/03/2011 16:50	1	ex41J21772.d	IonPac 2(mm)
280-21902-48	CP20 SB036	11/03/2011 17:04	1	ex41J21773.d	IonPac 2(mm)
ZZZZZ		11/03/2011 17:17	1		IonPac 2(mm)
280-21902-50	CP23 SB042	11/03/2011 17:31	1	ex41J21775.d	IonPac 2(mm)
280-21902-51	CP23 SB044	11/03/2011 17:44	1	ex41J21776.d	IonPac 2(mm)
CCV 280-94610/28		11/03/2011 17:58	1	ex41J21777.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Start Date: 11/03/2011 17:58

Analysis Batch Number: 94611   End Date: 11/04/2011 00:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-94611/28		11/03/2011 17:58	1	ex41J21777.d	IonPac 2(mm)
MB 280-93019/1-A		11/03/2011 18:12	1	ex41J21778.d	IonPac 2(mm)
ZZZZZ		11/03/2011 18:26	1		IonPac 2(mm)
280-21902-52	CP23 SB043	11/03/2011 18:39	1	ex41J21780.d	IonPac 2(mm)
280-21902-52 MS	CP23 SB043 MS	11/03/2011 18:53	1	ex41J21781.d	IonPac 2(mm)
280-21902-52 MSD	CP23 SB043 MSD	11/03/2011 19:06	1	ex41J21782.d	IonPac 2(mm)
280-21902-59	CP13 SB019	11/03/2011 19:20	1	ex41J21783.d	IonPac 2(mm)
280-21902-60	CP13 SB021	11/03/2011 19:33	1	ex41J21784.d	IonPac 2(mm)
280-21902-61	CP13 SB020	11/03/2011 19:47	1	ex41J21785.d	IonPac 2(mm)
280-21902-61 MS	CP13 SB020 MS	11/03/2011 20:01	1	ex41J21786.d	IonPac 2(mm)
280-21902-61 MSD	CP13 SB020 MSD	11/03/2011 20:14	1	ex41J21787.d	IonPac 2(mm)
CCV 280-94611/39		11/03/2011 20:28	1	ex41J21788.d	IonPac 2(mm)
ZZZZZ		11/03/2011 20:42	1		IonPac 2(mm)
ZZZZZ		11/03/2011 20:56	1		IonPac 2(mm)
ZZZZZ		11/03/2011 21:09	1		IonPac 2(mm)
280-21902-63	CP14 SB023	11/03/2011 21:23	1	ex41J21792.d	IonPac 2(mm)
280-21902-64	CP14 SB024	11/03/2011 21:36	1	ex41J21793.d	IonPac 2(mm)
280-21902-65	CP18 SB031	11/03/2011 21:50	1	ex41J21794.d	IonPac 2(mm)
280-21902-66	CP18 SB032	11/03/2011 22:04	1	ex41J21795.d	IonPac 2(mm)
280-21902-67	CP18 SB033	11/03/2011 22:17	1	ex41J21796.d	IonPac 2(mm)
CCV 280-94611/48		11/03/2011 22:31	1	ex41J21797.d	IonPac 2(mm)
280-21902-68	CP15 SB025	11/03/2011 22:44	1	ex41J21798.d	IonPac 2(mm)
280-21902-69	CP15 SB026	11/03/2011 22:58	1	ex41J21799.d	IonPac 2(mm)
280-21902-70	CP16 SB027	11/03/2011 23:11	1	ex41J21800.d	IonPac 2(mm)
280-21902-71	CP16 SB028	11/03/2011 23:25	1	ex41J21801.d	IonPac 2(mm)
280-21902-72	CP19 SB034	11/03/2011 23:39	1	ex41J21802.d	IonPac 2(mm)
280-21902-73	CP19 SB035	11/03/2011 23:52	1	ex41J21803.d	IonPac 2(mm)
280-21902-74	CP17 SB029	11/04/2011 00:06	1	ex41J21804.d	IonPac 2(mm)
280-21902-75	CP17 SB030	11/04/2011 00:19	1	ex41J21805.d	IonPac 2(mm)
CCV 280-94611/57		11/04/2011 00:33	1	ex41J21806.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver　　Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4　　Start Date: 11/04/2011 00:33

Analysis Batch Number: 94612　　End Date: 11/04/2011 06:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-94612/57		11/04/2011 00:33	1	ex41J21806.d	IonPac 2(mm)
MB 280-93507/1-A		11/04/2011 00:46	1	ex41J21807.d	IonPac 2(mm)
ZZZZZ		11/04/2011 01:00	1		IonPac 2(mm)
280-21902-1	TP05 SD018	11/04/2011 01:14	1	ex41J21809.d	IonPac 2(mm)
280-21902-2	TP06 SD019	11/04/2011 01:27	1	ex41J21810.d	IonPac 2(mm)
280-21902-3	TP07 SD020	11/04/2011 01:41	1	ex41J21811.d	IonPac 2(mm)
280-21902-4	TP08 SD021	11/04/2011 01:55	1	ex41J21812.d	IonPac 2(mm)
280-21902-5	TP09 SD022	11/04/2011 02:08	1	ex41J21813.d	IonPac 2(mm)
280-21902-6	TP10 SD023	11/04/2011 02:22	1	ex41J21814.d	IonPac 2(mm)
CCV 280-94612/66		11/04/2011 02:35	1	ex41J21815.d	IonPac 2(mm)
ZZZZZ		11/04/2011 02:49	1		IonPac 2(mm)
ZZZZZ		11/04/2011 03:03	1		IonPac 2(mm)
ZZZZZ		11/04/2011 03:16	1		IonPac 2(mm)
280-21902-8	TP12 SD025	11/04/2011 03:30	1	ex41J21819.d	IonPac 2(mm)
280-21902-9	TP13 SD026	11/04/2011 03:44	1	ex41J21820.d	IonPac 2(mm)
280-21902-10	TP14 SD027	11/04/2011 03:57	1	ex41J21821.d	IonPac 2(mm)
280-21902-11	TP14 SD028	11/04/2011 04:11	1	ex41J21822.d	IonPac 2(mm)
280-21902-12	TP15 SD029	11/04/2011 04:24	1	ex41J21823.d	IonPac 2(mm)
CCV 280-94612/75		11/04/2011 04:38	1	ex41J21824.d	IonPac 2(mm)
280-21902-13	TP16 SD030	11/04/2011 04:52	1	ex41J21825.d	IonPac 2(mm)
280-21902-14	TP17 SD031	11/04/2011 05:06	1	ex41J21826.d	IonPac 2(mm)
280-21902-15	TP18 SD032	11/04/2011 05:19	1	ex41J21827.d	IonPac 2(mm)
280-21902-16	TP19 SD033	11/04/2011 05:33	1	ex41J21828.d	IonPac 2(mm)
280-21902-17	TP20 SD034	11/04/2011 05:46	1	ex41J21829.d	IonPac 2(mm)
280-21902-18	TP21 SD035	11/04/2011 06:00	1	ex41J21830.d	IonPac 2(mm)
280-21902-19	TP21 SD036	11/04/2011 06:13	1	ex41J21831.d	IonPac 2(mm)
280-21902-20	TP01 SB128	11/04/2011 06:28	1	ex41J21832.d	IonPac 2(mm)
ZZZZZ		11/04/2011 06:42	1		IonPac 2(mm)
CCV 280-94612/85		11/04/2011 06:55	1	ex41J21834.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: LC_LCMS4   Start Date: 11/04/2011 06:55

Analysis Batch Number: 94725   End Date: 11/04/2011 08:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-94725/85		11/04/2011 06:55	1	ex41J21834.d	IonPac 2(mm)
LCS 280-93019/2-A		11/04/2011 07:10	1	ex41J21835.d	IonPac 2(mm)
LCS 280-93507/2-A		11/04/2011 07:23	1	ex41J21836.d	IonPac 2(mm)
280-21902-7	TP11 SD024	11/04/2011 07:37	1	ex41J21837.d	IonPac 2(mm)
280-21902-7 MS	TP11 SD024 MS	11/04/2011 07:51	1	ex41J21838.d	IonPac 2(mm)
280-21902-7 MSD	TP11 SD024 MSD	11/04/2011 08:05	1	ex41J21839.d	IonPac 2(mm)
CCV 280-94725/91		11/04/2011 08:18	1	ex41J21840.d	IonPac 2(mm)

8321B

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Batch Number: 92116 Batch Start Date: 10/19/11 23:22 Batch Analyst: Cokley, Cheyana D

Batch Method: 8330 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
GB 280-92116/1		8330, 8330B, 8321B		21683, 21902					

Batch Notes	
Date and Time laid out to Dry	10.19.11@2322 (21683); 10.22.11 @ 1615 (21902)10.26.11@1700(22003)
Date and Time When Seived	10.20.11 @ 1500 (21683); 10.26.11 @0830 (21902); 10.28.11 @ 0845 (22003)
Initials for Seiving	SB (21683); BMS (21902/22003)
Initials for Ring and Puck Grinding	cdc(21683 2-4); AF (21683 74-76, 21902); EG (22003)
Initials for Drying	CDC 921683); BMS (21902/22003)
Initials for Label Check	CDC (21683); DV (21902); CDC (22003)
Laid out on Parchment or Foil	Parchment
Lot # of Sand for Grinding Blank (PM)	2AB0606
Mesh Size of Seive	10
Reagent ID of SRM Grinding LCS (LCSSRM)	8330GrindLCS_00067 Ground 10.27.11@1600
Ring and Puck	cdc 10.26.11@1500(21683-2-4); 10.27.11@1130(21683 74-76, 21902); 10.28.11 @ 1100 (22003)
SOP Number	DV-OP-0018

Basis	Basis Description

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Batch Number: 92995 Batch Start Date: 10/25/11 19:45 Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B Batch End Date: 10/26/11 21:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00016		
MB 280-92995/1		8330B, 8321B		10.46 g	40 mL		1 mL		
LCS 280-92995/2		8330B, 8321B		10.17 g	40 mL	1 mL	1 mL		
280-21902-A-21-D	TP01 SB129	8330B, 8321B	T	10.54 g	40 mL		1 mL		
280-21902-A-22-B	TP01 SB130	8330B, 8321B	T	10.34 g	40 mL		1 mL		
280-21902-A-22-B MS	TP01 SB130	8330B, 8321B	T	10.35 g	40 mL	1 mL	1 mL		
280-21902-A-22-B MSD	TP01 SB130	8330B, 8321B	T	10.42 g	40 mL	1 mL	1 mL		
280-21902-B-23-A	TP01 SB131	8330B, 8321B	T	10.39 g	40 mL		1 mL		
280-21902-B-35-A	CP27 SB052	8330B, 8321B	T	10.17 g	40 mL		1 mL		
280-21902-A-36-B	CP27 SB053	8330B, 8321B	T	10.68 g	40 mL		1 mL		
280-21902-B-37-A	CP22 SB040	8330B, 8321B	T	10.42 g	40 mL		1 mL		
280-21902-A-38-B	CP22 SB041	8330B, 8321B	T	10.15 g	40 mL		1 mL		
280-21902-B-39-A	CP25 SB048	8330B, 8321B	T	10.65 g	40 mL		1 mL		
280-21902-B-40-A	CP25 SB049	8330B, 8321B	T	10.39 g	40 mL		1 mL		
280-21902-A-41-B	CP24 SB046	8330B, 8321B	T	10.43 g	40 mL		1 mL		
280-21902-A-42-B	CP24 SB047	8330B, 8321B	T	10.49 g	40 mL		1 mL		
280-21902-B-43-A	CP26 SB050	8330B, 8321B	T	10.91 g	40 mL		1 mL		
280-21902-A-44-B	CP26 SB051	8330B, 8321B	T	10.32 g	40 mL		1 mL		
280-21902-B-45-A	CP21 SB038	8330B, 8321B	T	10.99 g	40 mL		1 mL		
280-21902-B-46-A	CP21 SB039	8330B, 8321B	T	10.48 g	40 mL		1 mL		
280-21902-A-47-B	CP20 SB037	8330B, 8321B	T	10.21 g	40 mL		1 mL		
280-21902-B-48-A	CP20 SB036	8330B, 8321B	T	10.24 g	40 mL		1 mL		
280-21902-B-50-A	CP23 SB042	8330B, 8321B	T	10.02 g	40 mL		1 mL		
280-21902-A-51-D	CP23 SB044	8330B, 8321B	T	10.90 g	40 mL		1 mL		

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Batch Number: 92995   Batch Start Date: 10/25/11 19:45   Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B   Batch End Date: 10/26/11 21:48

Batch Notes	
Balance ID	24750836
Batch Comment	Aliquot by: Scoles, B.
Person's name who did the concentration	Filtered by:CokleyC
Filter Lot #	00133990
Filter Type	0.2um
Pipette ID	C
Pipette ID for Solvent	Exp-1
Prep Solvent Volume Used	20 mL
Person's name who witnessed reagent drop	Reviewer:PottruffE
Blank Sand Lot #	2AB0606
Solvent Lot #	0.1%AAinACN_00008
Solvent Name	A.Acn
Sonication Start Time	Shaker table start: 10.25.11@2017
Sonication Stop Time	shaker table stop: 10.26.11@1533
SOP Number	DV-OP-0018

Basis	Basis Description
T	Total/NA

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Batch Number: 93019 Batch Start Date: 10/25/11 19:45 Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B Batch End Date: 10/26/11 22:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00016		
MB 280-93019/1		8330B, 8321B		10.56 g	40 mL		1 mL		
LCS 280-93019/2		8330B, 8321B		10.00 g	40 mL	1 mL	1 mL		
280-21902-B-52-A	CP23 SB043	8330B, 8321B	T	10.08 g	40 mL		1 mL		
280-21902-B-52-E MS	CP23 SB043	8330B, 8321B	T	10.78 g	40 mL	1 mL	1 mL		
280-21902-B-52-F MSD	CP23 SB043	8330B, 8321B	T	10.54 g	40 mL	1 mL	1 mL		
280-21902-B-59-A	CP13 SB019	8330B, 8321B	T	10.75 g	40 mL		1 mL		
280-21902-A-60-B	CP13 SB021	8330B, 8321B	T	10.41 g	40 mL		1 mL		
280-21902-B-61-A	CP13 SB020	8330B, 8321B	T	10.95 g	40 mL		1 mL		
280-21902-B-63-A	CP14 SB023	8330B, 8321B	T	10.61 g	40 mL		1 mL		
280-21902-A-64-B	CP14 SB024	8330B, 8321B	T	10.64 g	40 mL		1 mL		
280-21902-A-65-B	CP18 SB031	8330B, 8321B	T	10.47 g	40 mL		1 mL		
280-21902-B-66-A	CP18 SB032	8330B, 8321B	T	10.16 g	40 mL		1 mL		
280-21902-A-67-B	CP18 SB033	8330B, 8321B	T	10.93 g	40 mL		1 mL		
280-21902-A-68-B	CP15 SB025	8330B, 8321B	T	10.68 g	40 mL		1 mL		
280-21902-A-69-B	CP15 SB026	8330B, 8321B	T	10.67 g	40 mL		1 mL		
280-21902-B-70-A	CP16 SB027	8330B, 8321B	T	10.34 g	40 mL		1 mL		
280-21902-B-71-A	CP16 SB028	8330B, 8321B	T	10.81 g	40 mL		1 mL		
280-21902-A-72-B	CP19 SB034	8330B, 8321B	T	10.28 g	40 mL		1 mL		
280-21902-B-73-A	CP19 SB035	8330B, 8321B	T	10.34 g	40 mL		1 mL		
280-21902-B-74-A	CP17 SB029	8330B, 8321B	T	10.58 g	40 mL		1 mL		
280-21902-A-75-B	CP17 SB030	8330B, 8321B	T	10.12 g	40 mL		1 mL		
280-21902-B-61-E MS	CP13 SB020	8330B, 8321B	T	10.34 g	40 mL	1 mL	1 mL		
280-21902-B-61-F MSD	CP13 SB020	8330B, 8321B	T	10.04 g	40 mL	1 mL	1 mL		

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Batch Number: 93019 Batch Start Date: 10/25/11 19:45 Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B Batch End Date: 10/26/11 22:15

Batch Notes	
Balance ID	24750836
Batch Comment	Aliquot by: Scoles, B.
Person's name who did the concentration	Filtered by:CokleyC
Filter Lot #	00133990
Filter Type	0.2um
Pipette ID	C
Pipette ID for Solvent	Exp-1
Prep Solvent Volume Used	20 mL
Person's name who witnessed reagent drop	Reviewer:PottruffE
Blank Sand Lot #	2AB0606
Solvent Lot #	0.1%AAinACN_00008
Solvent Name	A.Acn
Sonication Start Time	Shaker table start: 10.25.11@2017
Sonication Stop Time	shaker table stop: 10.26.11@1533
SOP Number	DV-OP-0018

Basis	Basis Description
T	Total/NA

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Batch Number: 93507 Batch Start Date: 10/27/11 18:25 Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B Batch End Date: 10/28/11 14:28

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00017		
MB 280-93507/1		8330B, 8321B		10.84 g	40 mL		1 mL		
LCS 280-93507/2		8330B, 8321B		10.78 g	40 mL	1 mL	1 mL		
280-21902-A-1-D	TP05 SD018	8330B, 8321B	T	10.45 g	40 mL		1 mL		
280-21902-A-2-B	TP06 SD019	8330B, 8321B	T	10.97 g	40 mL		1 mL		
280-21902-A-3-B	TP07 SD020	8330B, 8321B	T	10.20 g	40 mL		1 mL		
280-21902-B-4-A	TP08 SD021	8330B, 8321B	T	10.27 g	40 mL		1 mL		
280-21902-B-5-A	TP09 SD022	8330B, 8321B	T	10.21 g	40 mL		1 mL		
280-21902-A-6-B	TP10 SD023	8330B, 8321B	T	10.10 g	40 mL		1 mL		
280-21902-A-7-B	TP11 SD024	8330B, 8321B	T	10.10 g	40 mL		1 mL		
280-21902-A-7-B MS	TP11 SD024	8330B, 8321B	T	10.39 g	40 mL	1 mL	1 mL		
280-21902-A-7-B MSD	TP11 SD024	8330B, 8321B	T	10.66 g	40 mL	1 mL	1 mL		
280-21902-B-8-A	TP12 SD025	8330B, 8321B	T	10.16 g	40 mL		1 mL		
280-21902-A-9-B	TP13 SD026	8330B, 8321B	T	10.16 g	40 mL		1 mL		
280-21902-B-10-A	TP14 SD027	8330B, 8321B	T	10.71 g	40 mL		1 mL		
280-21902-B-11-A	TP14 SD028	8330B, 8321B	T	10.66 g	40 mL		1 mL		
280-21902-B-12-A	TP15 SD029	8330B, 8321B	T	10.55 g	40 mL		1 mL		
280-21902-A-13-B	TP16 SD030	8330B, 8321B	T	10.32 g	40 mL		1 mL		
280-21902-A-14-B	TP17 SD031	8330B, 8321B	T	10.78 g	40 mL		1 mL		
280-21902-B-15-A	TP18 SD032	8330B, 8321B	T	10.09 g	40 mL		1 mL		
280-21902-A-16-B	TP19 SD033	8330B, 8321B	T	10.28 g	40 mL		1 mL		
280-21902-B-17-A	TP20 SD034	8330B, 8321B	T	10.71 g	40 mL		1 mL		
280-21902-A-18-B	TP21 SD035	8330B, 8321B	T	10.73 g	40 mL		1 mL		
280-21902-B-19-A	TP21 SD036	8330B, 8321B	T	10.03 g	40 mL		1 mL		
280-21902-B-20-A	TP01 SB128	8330B, 8321B	T	10.04 g	40 mL		1 mL		

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Batch Number: 93507 Batch Start Date: 10/27/11 18:25 Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B Batch End Date: 10/28/11 14:28

Batch Notes	
Balance ID	24750836
Person's name who did the concentration	Filtered by:Guest, Erin
Filter Lot #	00133971
Filter Type	0.2um
Pipette ID	C
Pipette ID for Solvent	Exp-1
Prep Solvent Volume Used	20 mL
Person's name who witnessed reagent drop	Reviewer:PottruffE
Blank Sand Lot #	2AB0606
Solvent Lot #	0.1%AAinACN_00009
Solvent Name	A.ACN
Sonication Start Time	Shaker table start: 10.27.11@1859
Sonication Stop Time	shaker table stop: 10.28.11@1320
SOP Number	DV-OP-0018

Basis	Basis Description
T	Total/NA

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Batch Number: 93548 Batch Start Date: 10/27/11 22:10 Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B Batch End Date: 10/28/11 17:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00010	8321ExplosSur 00017	8330 GrindLCS 00067	
MB 280-93548/1		8330B, 8321B		10.28 g	40 mL		1 mL		
LCS 280-93548/2		8330B, 8321B		10.07 g	40 mL	1 mL	1 mL		
GB 280-92116/1-A		8330B, 8321B		10.82 g	40 mL		1 mL		
LCSSRM 280-92116/2-A		8330B, 8321B		10.18 g	40 mL		1 mL	10.18 g	
280-21902-A-53-C	CP03 IS009	8330B, 8321B	T	10.05 g	40 mL		1 mL		
280-21902-A-54-C	CP03 IS008	8330B, 8321B	T	10.70 g	40 mL		1 mL		
280-21902-A-55-C	CP03 IS007	8330B, 8321B	T	10.11 g	40 mL		1 mL		
280-21902-A-56-C	CP02 IS004	8330B, 8321B	T	10.93 g	40 mL		1 mL		
280-21902-A-57-C	CP02 IS005	8330B, 8321B	T	10.78 g	40 mL		1 mL		
280-21902-A-58-C	CP02 IS006	8330B, 8321B	T	10.31 g	40 mL		1 mL		
280-21902-A-58-C MS	CP02 IS006	8330B, 8321B	T	10.43 g	40 mL	1 mL	1 mL		
280-21902-A-58-C MSD	CP02 IS006	8330B, 8321B	T	10.15 g	40 mL	1 mL	1 mL		

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Batch Number: 93548   Batch Start Date: 10/27/11 22:10   Batch Analyst: Cokley, Cheyana D

Batch Method: 8330B   Batch End Date: 10/28/11 17:00

Batch Notes	
Balance ID	24750836
Person's name who did the concentration	Filtered by:Guest, Erin
Filter Lot #	00133971
Filter Type	0.2um
Pipette ID	C
Pipette ID for Solvent	Exp-1
Prep Solvent Volume Used	20 mL
Person's name who witnessed reagent drop	Reviewer:PottruffE
Blank Sand Lot #	2AB0606
Solvent Lot #	0.1%AAinACN_00009
Solvent Name	A.ACN
Sonication Start Time	Shaker table start: 10.27.11@2228
Sonication Stop Time	shaker table stop: 10.28.11@1632
SOP Number	DV-OP-0018

Basis	Basis Description
T	Total/NA

METALS

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METALS

Lab Name: TestAmerica Denver Job Number: 280-21902-1

SDG No.:

Project: Martha's Vineyard

Client Sample ID	Lab Sample ID
TP05 SD018	280-21902-1
TP06 SD019	280-21902-2
TP07 SD020	280-21902-3
TP08 SD021	280-21902-4
TP09 SD022	280-21902-5
TP10 SD023	280-21902-6
TP11 SD024	280-21902-7
TP12 SD025	280-21902-8
TP13 SD026	280-21902-9
TP14 SD027	280-21902-10
TP14 SD028	280-21902-11
TP15 SD029	280-21902-12
TP16 SD030	280-21902-13
TP17 SD031	280-21902-14
TP18 SD032	280-21902-15
TP19 SD033	280-21902-16
TP20 SD034	280-21902-17
TP21 SD035	280-21902-18
TP21 SD036	280-21902-19
TP01 SB128	280-21902-20
TP01 SB129	280-21902-21
TP01 SB130	280-21902-22
TP01 SB131	280-21902-23
CP27 SB052	280-21902-35
CP27 SB053	280-21902-36
CP22 SB040	280-21902-37
CP22 SB041	280-21902-38
CP25 SB048	280-21902-39
CP25 SB049	280-21902-40
CP24 SB046	280-21902-41
CP24 SB047	280-21902-42
CP26 SB050	280-21902-43
CP26 SB051	280-21902-44
CP21 SB038	280-21902-45
CP21 SB039	280-21902-46
CP20 SB037	280-21902-47
CP20 SB036	280-21902-48
CP23 SB042	280-21902-50
CP23 SB044	280-21902-51
CP23 SB043	280-21902-52
CP03 IS009	280-21902-53
CP03 IS008	280-21902-54
CP03 IS007	280-21902-55
CP02 IS004	280-21902-56
CP02 IS005	280-21902-57

Comments:

COVER PAGE
METALS

Lab Name: TestAmerica Denver   Job Number: 280-21902-1

SDG No.:

Project: Martha's Vineyard

Client Sample ID	Lab Sample ID
CP02 IS006	280-21902-58
CP13 SB019	280-21902-59
CP13 SB021	280-21902-60
CP13 SB020	280-21902-61
CP14 SB023	280-21902-63
CP14 SB024	280-21902-64
CP18 SB031	280-21902-65
CP18 SB032	280-21902-66
CP18 SB033	280-21902-67
CP15 SB025	280-21902-68
CP15 SB026	280-21902-69
CP16 SB027	280-21902-70
CP16 SB028	280-21902-71
CP19 SB034	280-21902-72
CP19 SB035	280-21902-73
CP17 SB029	280-21902-74
CP17 SB030	280-21902-75

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP05 SD018

Lab Sample ID: 280-21902-1

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 11:10

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 61.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.027	0.28	0.055	0.019	mg/Kg	J	Q J	1	6020A
Copper	5.2	3.5	0.28	0.098	mg/Kg		J	1	6020A
Lead	11	0.14	0.069	0.025	mg/Kg		J	1	6020A
Nickel	7.4	0.48	0.10	0.035	mg/Kg		J	1	6020A
Zinc	34	3.5	1.2	0.44	mg/Kg		J	1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP06 SD019

Lab Sample ID: 280-21902-2

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 11:15

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 65.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.019	0.26	0.053	0.018	mg/Kg	J	Q	1	6020A
Copper	3.8	3.3	0.26	0.093	mg/Kg			1	6020A
Lead	7.8	0.13	0.066	0.024	mg/Kg			1	6020A
Nickel	5.2	0.46	0.098	0.033	mg/Kg			1	6020A
Zinc	25	3.3	1.2	0.42	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP07 SD020

Lab Sample ID: 280-21902-3

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 11:20

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 68.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.051	0.25	0.051	0.018	mg/Kg	U	Q	1	6020A
Copper	2.2	3.2	0.25	0.090	mg/Kg	J		1	6020A
Lead	5.2	0.13	0.064	0.023	mg/Kg			1	6020A
Nickel	3.1	0.44	0.095	0.032	mg/Kg			1	6020A
Zinc	15	3.2	1.1	0.40	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP08 SD021

Lab Sample ID: 280-21902-4

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 11:30

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 44.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.034	0.43	0.086	0.030	mg/Kg	J	Q	1	6020A
Copper	15	5.4	0.43	0.15	mg/Kg			1	6020A
Lead	32	0.22	0.11	0.039	mg/Kg			1	6020A
Nickel	21	0.76	0.16	0.055	mg/Kg			1	6020A
Zinc	93	5.4	1.9	0.68	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP09 SD022

Lab Sample ID: 280-21902-5

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 11:25

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 41.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.037	0.47	0.094	0.033	mg/Kg	J	Q	1	6020A
Copper	13	5.9	0.47	0.17	mg/Kg			1	6020A
Lead	28	0.23	0.12	0.043	mg/Kg			1	6020A
Nickel	18	0.82	0.18	0.059	mg/Kg			1	6020A
Zinc	88	5.9	2.1	0.74	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP10 SD023

Lab Sample ID: 280-21902-6

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 11:35

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 40.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.033	0.47	0.093	0.033	mg/Kg	J	Q	1	6020A
Copper	14	5.8	0.47	0.17	mg/Kg			1	6020A
Lead	30	0.23	0.12	0.042	mg/Kg			1	6020A
Nickel	19	0.82	0.17	0.059	mg/Kg			1	6020A
Zinc	92	5.8	2.1	0.74	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP11 SD024

Lab Sample ID: 280-21902-7

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 11:40

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 69.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.048	0.24	0.048	0.017	mg/Kg	U	Q	1	6020A
Copper	4.6	3.0	0.24	0.086	mg/Kg			1	6020A
Lead	5.8	0.12	0.060	0.022	mg/Kg			1	6020A
Nickel	3.0	0.42	0.090	0.030	mg/Kg			1	6020A
Zinc	16	3.0	1.1	0.38	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP12 SD025

Lab Sample ID: 280-21902-8

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 11:45

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 39.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.094	0.47	0.094	0.033	mg/Kg	U	Q	1	6020A
Copper	16	5.9	0.47	0.17	mg/Kg			1	6020A
Lead	34	0.24	0.12	0.043	mg/Kg			1	6020A
Nickel	21	0.82	0.18	0.060	mg/Kg			1	6020A
Zinc	100	5.9	2.1	0.74	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP13 SD026

Lab Sample ID: 280-21902-9

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 11:50

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 43.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.086	0.43	0.086	0.030	mg/Kg	U	Q	1	6020A
Copper	12	5.3	0.43	0.15	mg/Kg			1	6020A
Lead	26	0.21	0.11	0.039	mg/Kg			1	6020A
Nickel	15	0.75	0.16	0.054	mg/Kg			1	6020A
Zinc	85	5.3	1.9	0.68	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP14 SD027

Lab Sample ID: 280-21902-10

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 09:55

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 72.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.049	0.24	0.049	0.017	mg/Kg	U	Q	1	6020A
Copper	1.5	3.0	0.24	0.086	mg/Kg	J		1	6020A
Lead	3.3	0.12	0.061	0.022	mg/Kg			1	6020A
Nickel	2.0	0.42	0.091	0.031	mg/Kg			1	6020A
Zinc	10	3.0	1.1	0.38	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP14 SD028

Lab Sample ID: 280-21902-11

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 09:55

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 74.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.047	0.23	0.047	0.016	mg/Kg	U	Q	1	6020A
Copper	1.2	2.9	0.23	0.083	mg/Kg	J		1	6020A
Lead	2.9	0.12	0.059	0.021	mg/Kg			1	6020A
Nickel	1.7	0.41	0.088	0.030	mg/Kg			1	6020A
Zinc	8.7	2.9	1.1	0.37	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP15 SD029

Lab Sample ID: 280-21902-12

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 10:30

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 72.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.053	0.27	0.053	0.019	mg/Kg	U	Q	1	6020A
Copper	1.0	3.3	0.27	0.095	mg/Kg	J		1	6020A
Lead	2.6	0.13	0.067	0.024	mg/Kg			1	6020A
Nickel	1.5	0.47	0.10	0.034	mg/Kg			1	6020A
Zinc	7.1	3.3	1.2	0.42	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP16 SD030

Lab Sample ID: 280-21902-13

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 10:20

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 79.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.043	0.21	0.043	0.015	mg/Kg	U	Q	1	6020A
Copper	1.4	2.7	0.21	0.076	mg/Kg	J		1	6020A
Lead	3.1	0.11	0.054	0.020	mg/Kg			1	6020A
Nickel	2.0	0.38	0.080	0.027	mg/Kg			1	6020A
Zinc	9.9	2.7	0.97	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP17 SD031

Lab Sample ID: 280-21902-14

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 09:48

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 76.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.052	0.26	0.052	0.018	mg/Kg	U	Q	1	6020A
Copper	2.3	3.2	0.26	0.092	mg/Kg	J		1	6020A
Lead	5.1	0.13	0.065	0.024	mg/Kg			1	6020A
Nickel	3.3	0.45	0.097	0.033	mg/Kg			1	6020A
Zinc	16	3.2	1.2	0.41	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP18 SD032

Lab Sample ID: 280-21902-15

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 10:45

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 67.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.056	0.28	0.056	0.020	mg/Kg	U	Q	1	6020A
Copper	3.3	3.5	0.28	0.099	mg/Kg	J		1	6020A
Lead	5.6	0.14	0.070	0.025	mg/Kg			1	6020A
Nickel	4.7	0.49	0.10	0.035	mg/Kg			1	6020A
Zinc	19	3.5	1.3	0.44	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP19 SD033

Lab Sample ID: 280-21902-16

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 10:40

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 59.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.060	0.30	0.060	0.021	mg/Kg	U	Q	1	6020A
Copper	6.4	3.7	0.30	0.11	mg/Kg			1	6020A
Lead	9.8	0.15	0.075	0.027	mg/Kg			1	6020A
Nickel	9.4	0.52	0.11	0.038	mg/Kg			1	6020A
Zinc	36	3.7	1.3	0.47	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP20 SD034

Lab Sample ID: 280-21902-17

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 11:05

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 78.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.023	0.24	0.048	0.017	mg/Kg	J	Q	1	6020A
Copper	0.51	3.0	0.24	0.086	mg/Kg	J		1	6020A
Lead	2.8	0.12	0.061	0.022	mg/Kg			1	6020A
Nickel	1.0	0.42	0.091	0.031	mg/Kg			1	6020A
Zinc	5.1	3.0	1.1	0.38	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP21 SD035

Lab Sample ID: 280-21902-18

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 10:55

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 80.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.037	0.22	0.044	0.015	mg/Kg	J	Q	1	6020A
Copper	0.58	2.8	0.22	0.079	mg/Kg	J		1	6020A
Lead	4.8	0.11	0.055	0.020	mg/Kg			1	6020A
Nickel	1.4	0.39	0.083	0.028	mg/Kg			1	6020A
Zinc	7.8	2.8	1.0	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP21 SD036

Lab Sample ID: 280-21902-19

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 10:55

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 77.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.033	0.23	0.046	0.016	mg/Kg	J	Q	1	6020A
Copper	0.63	2.9	0.23	0.082	mg/Kg	J		1	6020A
Lead	4.4	0.11	0.057	0.021	mg/Kg			1	6020A
Nickel	1.3	0.40	0.086	0.029	mg/Kg			1	6020A
Zinc	7.3	2.9	1.0	0.36	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP01 SB128 | Lab Sample ID: 280-21902-20

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG ID.:

Matrix: Solid | Date Sampled: 10/19/2011 13:30

Reporting Basis: DRY | Date Received: 10/21/2011 09:30

% Solids: 81.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.043	0.21	0.043	0.015	mg/Kg	U	Q	1	6020A
Copper	1.8	2.7	0.21	0.076	mg/Kg	J		1	6020A
Lead	32	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	2.3	0.37	0.080	0.027	mg/Kg			1	6020A
Zinc	8.3	2.7	0.96	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP01 SB129

Lab Sample ID: 280-21902-21

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 13:32

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 81.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.018	0.22	0.045	0.016	mg/Kg	J	Q	1	6020A
Copper	1.8	2.8	0.22	0.080	mg/Kg	J		1	6020A
Lead	32	0.11	0.056	0.020	mg/Kg			1	6020A
Nickel	2.1	0.39	0.084	0.028	mg/Kg			1	6020A
Zinc	7.6	2.8	1.0	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP01 SB130

Lab Sample ID: 280-21902-22

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 13:35

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 87.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.039	0.20	0.039	0.014	mg/Kg	U	Q	1	6020A
Copper	1.4	2.5	0.20	0.070	mg/Kg	J		1	6020A
Lead	44	0.098	0.049	0.018	mg/Kg			1	6020A
Nickel	3.9	0.34	0.074	0.025	mg/Kg			1	6020A
Zinc	8.4	2.5	0.88	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP01 SB131

Lab Sample ID: 280-21902-23

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/19/2011 13:45

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 87.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.038	0.19	0.038	0.013	mg/Kg	U	Q	1	6020A
Copper	1.3	2.4	0.19	0.068	mg/Kg	J		1	6020A
Lead	39	0.096	0.048	0.017	mg/Kg			1	6020A
Nickel	3.7	0.33	0.072	0.024	mg/Kg			1	6020A
Zinc	7.9	2.4	0.86	0.30	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP27 SB052

Lab Sample ID: 280-21902-35

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 13:55

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 84.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.041	0.20	0.041	0.014	mg/Kg	U	Q	1	6020A
Copper	0.86	2.5	0.20	0.072	mg/Kg	J		1	6020A
Lead	4.5	0.10	0.051	0.019	mg/Kg			1	6020A
Nickel	1.6	0.36	0.076	0.026	mg/Kg			1	6020A
Zinc	5.6	2.5	0.92	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP27 SB053

Lab Sample ID: 280-21902-36

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 14:05

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 85.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	1.2	2.7	0.21	0.076	mg/Kg	J		1	6020A
Lead	4.0	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	3.3	0.37	0.080	0.027	mg/Kg			1	6020A
Zinc	6.9	2.7	0.96	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP22 SB040

Lab Sample ID: 280-21902-37

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 13:40

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 83.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.045	0.22	0.045	0.016	mg/Kg	U	Q	1	6020A
Copper	0.93	2.8	0.22	0.080	mg/Kg	J		1	6020A
Lead	5.4	0.11	0.056	0.020	mg/Kg			1	6020A
Nickel	1.2	0.39	0.084	0.028	mg/Kg			1	6020A
Zinc	5.4	2.8	1.0	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP22 SB041

Lab Sample ID: 280-21902-38

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 13:50

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 86.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.040	0.20	0.040	0.014	mg/Kg	U	Q	1	6020A
Copper	0.82	2.5	0.20	0.071	mg/Kg	J		1	6020A
Lead	3.0	0.10	0.050	0.018	mg/Kg			1	6020A
Nickel	1.9	0.35	0.075	0.025	mg/Kg			1	6020A
Zinc	5.5	2.5	0.90	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP25 SB048

Lab Sample ID: 280-21902-39

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 13:25

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 89.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.038	0.19	0.038	0.013	mg/Kg	U	Q	1	6020A
Copper	0.68	2.4	0.19	0.068	mg/Kg	J		1	6020A
Lead	4.6	0.096	0.048	0.017	mg/Kg			1	6020A
Nickel	0.64	0.33	0.072	0.024	mg/Kg			1	6020A
Zinc	4.2	2.4	0.86	0.30	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP25 SB049 | Lab Sample ID: 280-21902-40

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG ID.:

Matrix: Solid | Date Sampled: 10/18/2011 13:35

Reporting Basis: DRY | Date Received: 10/21/2011 09:30

% Solids: 89.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.039	0.20	0.039	0.014	mg/Kg	U	Q	1	6020A
Copper	0.69	2.5	0.20	0.070	mg/Kg	J		1	6020A
Lead	3.2	0.098	0.049	0.018	mg/Kg			1	6020A
Nickel	1.3	0.34	0.074	0.025	mg/Kg			1	6020A
Zinc	5.7	2.5	0.88	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP24 SB046

Lab Sample ID: 280-21902-41

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 13:00

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 87.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.039	0.20	0.039	0.014	mg/Kg	U	Q	1	6020A
Copper	0.79	2.4	0.20	0.070	mg/Kg	J		1	6020A
Lead	4.5	0.098	0.049	0.018	mg/Kg			1	6020A
Nickel	0.96	0.34	0.073	0.025	mg/Kg			1	6020A
Zinc	4.9	2.4	0.88	0.31	mg/Kg			1	6020A

INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP24 SB047

Lab Sample ID: 280-21902-42

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 13:15

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 87.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	1.2	2.6	0.21	0.075	mg/Kg	J		1	6020A
Lead	4.1	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	2.5	0.37	0.079	0.027	mg/Kg			1	6020A
Zinc	6.6	2.6	0.94	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP26 SB050

Lab Sample ID: 280-21902-43

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 12:35

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 85.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.044	0.22	0.044	0.015	mg/Kg	U	Q	1	6020A
Copper	1.2	2.8	0.22	0.078	mg/Kg	J		1	6020A
Lead	6.1	0.11	0.055	0.020	mg/Kg			1	6020A
Nickel	2.0	0.39	0.083	0.028	mg/Kg			1	6020A
Zinc	7.3	2.8	0.99	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP26 SB051

Lab Sample ID: 280-21902-44

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 12:40

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 87.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.039	0.20	0.039	0.014	mg/Kg	U	Q	1	6020A
Copper	1.6	2.5	0.20	0.070	mg/Kg	J		1	6020A
Lead	4.2	0.098	0.049	0.018	mg/Kg			1	6020A
Nickel	4.3	0.34	0.074	0.025	mg/Kg			1	6020A
Zinc	9.8	2.5	0.88	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP21 SB038

Lab Sample ID: 280-21902-45

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 12:20

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 84.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.046	0.23	0.046	0.016	mg/Kg	U	Q	1	6020A
Copper	1.1	2.9	0.23	0.082	mg/Kg	J		1	6020A
Lead	8.7	0.12	0.058	0.021	mg/Kg			1	6020A
Nickel	1.5	0.40	0.087	0.029	mg/Kg			1	6020A
Zinc	6.0	2.9	1.0	0.36	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP21 SB039

Lab Sample ID: 280-21902-46

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 12:28

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 87.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.044	0.22	0.044	0.016	mg/Kg	U	Q	1	6020A
Copper	1.3	2.8	0.22	0.079	mg/Kg	J		1	6020A
Lead	7.0	0.11	0.056	0.020	mg/Kg			1	6020A
Nickel	2.7	0.39	0.083	0.028	mg/Kg			1	6020A
Zinc	8.1	2.8	1.0	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP20 SB037

Lab Sample ID: 280-21902-47

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 13:30

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 90.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.044	0.22	0.044	0.015	mg/Kg	U	Q	1	6020A
Copper	1.0	2.7	0.22	0.078	mg/Kg	J		1	6020A
Lead	3.7	0.11	0.055	0.020	mg/Kg			1	6020A
Nickel	1.7	0.38	0.082	0.028	mg/Kg			1	6020A
Zinc	5.7	2.7	0.98	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP20 SB036

Lab Sample ID: 280-21902-48

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 14:15

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 89.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.039	0.20	0.039	0.014	mg/Kg	U	Q	1	6020A
Copper	1.1	2.5	0.20	0.070	mg/Kg	J		1	6020A
Lead	6.1	0.099	0.049	0.018	mg/Kg			1	6020A
Nickel	1.1	0.35	0.074	0.025	mg/Kg			1	6020A
Zinc	5.8	2.5	0.89	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP23 SB042

Lab Sample ID: 280-21902-50

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 14:40

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 84.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.045	0.23	0.045	0.016	mg/Kg	U	Q	1	6020A
Copper	1.2	2.8	0.23	0.080	mg/Kg	J		1	6020A
Lead	6.7	0.11	0.057	0.021	mg/Kg			1	6020A
Nickel	1.8	0.40	0.085	0.029	mg/Kg			1	6020A
Zinc	7.2	2.8	1.0	0.36	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP23 SB044

Lab Sample ID: 280-21902-51

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 14:40

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 85.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.041	0.21	0.041	0.014	mg/Kg	U	Q	1	6020A
Copper	1.1	2.6	0.21	0.074	mg/Kg	J		1	6020A
Lead	6.2	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	1.9	0.36	0.078	0.026	mg/Kg			1	6020A
Zinc	6.7	2.6	0.93	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP23 SB043

Lab Sample ID: 280-21902-52

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 14:50

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 88.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.040	0.20	0.040	0.014	mg/Kg	U	Q J	1	6020A
Copper	1.3	2.5	0.20	0.071	mg/Kg	J		1	6020A
Lead	4.0	0.099	0.050	0.018	mg/Kg			1	6020A
Nickel	3.7	0.35	0.074	0.025	mg/Kg			1	6020A
Zinc	7.8	2.5	0.89	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP03 IS009

Lab Sample ID: 280-21902-53

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 14:28

Reporting Basis: WET

Date Received: 10/21/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.017	0.19	0.037	0.0066	mg/Kg	J	Q J	1	6020A
Copper	2.1	2.3	0.19	0.033	mg/Kg	J		1	6020A
Lead	9.0	0.094	0.047	0.0085	mg/Kg			1	6020A
Nickel	1.6	0.33	0.070	0.012	mg/Kg			1	6020A
Zinc	9.7	2.3	0.84	0.15	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP03 IS008

Lab Sample ID: 280-21902-54

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 13:45

Reporting Basis: WET

Date Received: 10/21/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.014	0.20	0.040	0.0069	mg/Kg	J	Q	1	6020A
Copper	1.8	2.5	0.20	0.035	mg/Kg	J		1	6020A
Lead	8.0	0.099	0.050	0.0090	mg/Kg			1	6020A
Nickel	1.3	0.35	0.074	0.013	mg/Kg			1	6020A
Zinc	8.8	2.5	0.89	0.16	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP03 IS007

Lab Sample ID: 280-21902-55

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/18/2011 12:45

Reporting Basis: WET

Date Received: 10/21/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.016	0.20	0.039	0.0068	mg/Kg	J	Q	1	6020A
Copper	2.0	2.4	0.20	0.035	mg/Kg	J		1	6020A
Lead	9.1	0.098	0.049	0.0089	mg/Kg			1	6020A
Nickel	1.3	0.34	0.073	0.012	mg/Kg			1	6020A
Zinc	9.2	2.4	0.88	0.15	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP02 IS004

Lab Sample ID: 280-21902-56

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 13:37

Reporting Basis: WET

Date Received: 10/21/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.043	0.19	0.039	0.0067	mg/Kg	J	Q	1	6020A
Copper	2.8	2.4	0.19	0.034	mg/Kg			1	6020A
Lead	14	0.096	0.048	0.0088	mg/Kg			1	6020A
Nickel	1.5	0.34	0.072	0.012	mg/Kg			1	6020A
Zinc	8.8	2.4	0.87	0.15	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP02 IS005

Lab Sample ID: 280-21902-57

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 14:36

Reporting Basis: WET

Date Received: 10/21/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.049	0.20	0.039	0.0068	mg/Kg	J	Q	1	6020A
Copper	3.2	2.4	0.20	0.035	mg/Kg			1	6020A
Lead	15	0.098	0.049	0.0089	mg/Kg			1	6020A
Nickel	1.5	0.34	0.073	0.012	mg/Kg			1	6020A
Zinc	10	2.4	0.88	0.15	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP02 IS006

Lab Sample ID: 280-21902-58

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 15:17

Reporting Basis: WET

Date Received: 10/21/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.053	0.19	0.039	0.0068	mg/Kg	J	Q	1	6020A
Copper	3.6	2.4	0.19	0.035	mg/Kg			1	6020A
Lead	16	0.097	0.049	0.0089	mg/Kg			1	6020A
Nickel	2.0	0.34	0.073	0.012	mg/Kg			1	6020A
Zinc	12	2.4	0.88	0.15	mg/Kg			1	6020A

INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP13 SB019

Lab Sample ID: 280-21902-59

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 12:46

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 85.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.046	0.23	0.046	0.016	mg/Kg	U	Q	1	6020A
Copper	1.2	2.9	0.23	0.082	mg/Kg	J		1	6020A
Lead	6.4	0.12	0.058	0.021	mg/Kg			1	6020A
Nickel	1.1	0.40	0.087	0.029	mg/Kg			1	6020A
Zinc	4.3	2.9	1.0	0.37	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP13 SB021

Lab Sample ID: 280-21902-60

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 12:46

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 86.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.046	0.23	0.046	0.016	mg/Kg	U	Q	1	6020A
Copper	0.90	2.9	0.23	0.082	mg/Kg	J		1	6020A
Lead	6.4	0.11	0.057	0.021	mg/Kg			1	6020A
Nickel	1.0	0.40	0.086	0.029	mg/Kg			1	6020A
Zinc	3.9	2.9	1.0	0.36	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP13 SB020

Lab Sample ID: 280-21902-61

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 12:50

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 88.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q J	1	6020A
Copper	1.1	2.6	0.21	0.075	mg/Kg	J		1	6020A
Lead	4.5	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	2.4	0.37	0.079	0.027	mg/Kg			1	6020A
Zinc	5.5	2.6	0.95	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP14 SB023

Lab Sample ID: 280-21902-63

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 13:06

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 86.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.018	0.22	0.044	0.015	mg/Kg	J	Q	1	6020A
Copper	1.3	2.7	0.22	0.077	mg/Kg	J		1	6020A
Lead	9.0	0.11	0.054	0.020	mg/Kg			1	6020A
Nickel	1.9	0.38	0.082	0.028	mg/Kg			1	6020A
Zinc	7.9	2.7	0.98	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP14 SB024

Lab Sample ID: 280-21902-64

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 13:10

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 90.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.043	0.21	0.043	0.015	mg/Kg	U	Q	1	6020A
Copper	1.1	2.7	0.21	0.076	mg/Kg	J		1	6020A
Lead	4.8	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	3.5	0.37	0.080	0.027	mg/Kg			1	6020A
Zinc	7.6	2.7	0.96	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP18 SB031

Lab Sample ID: 280-21902-65

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 13:30

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 87.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.043	0.22	0.043	0.015	mg/Kg	U	Q	1	6020A
Copper	1.2	2.7	0.22	0.077	mg/Kg	J		1	6020A
Lead	11	0.11	0.054	0.020	mg/Kg			1	6020A
Nickel	1.2	0.38	0.081	0.027	mg/Kg			1	6020A
Zinc	4.2	2.7	0.98	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP18 SB032

Lab Sample ID: 280-21902-66

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 13:36

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 85.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.040	0.20	0.040	0.014	mg/Kg	U	Q	1	6020A
Copper	1.1	2.5	0.20	0.071	mg/Kg	J		1	6020A
Lead	7.8	0.099	0.050	0.018	mg/Kg			1	6020A
Nickel	2.2	0.35	0.075	0.025	mg/Kg			1	6020A
Zinc	5.7	2.5	0.90	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP18 SB033 | Lab Sample ID: 280-21902-67

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG ID.:

Matrix: Solid | Date Sampled: 10/17/2011 13:36

Reporting Basis: DRY | Date Received: 10/21/2011 09:30

% Solids: 85.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	1.1	2.6	0.21	0.075	mg/Kg	J		1	6020A
Lead	7.5	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	3.2	0.37	0.079	0.027	mg/Kg			1	6020A
Zinc	7.9	2.6	0.95	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP15 SB025

Lab Sample ID: 280-21902-68

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 13:55

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 88.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	1.1	2.6	0.21	0.074	mg/Kg	J		1	6020A
Lead	7.0	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	1.1	0.37	0.078	0.026	mg/Kg			1	6020A
Zinc	4.6	2.6	0.94	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP15 SB026

Lab Sample ID: 280-21902-69

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 13:57

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 87.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.042	0.21	0.042	0.015	mg/Kg	U	Q	1	6020A
Copper	0.95	2.6	0.21	0.074	mg/Kg	J		1	6020A
Lead	6.9	0.10	0.052	0.019	mg/Kg			1	6020A
Nickel	2.2	0.37	0.078	0.026	mg/Kg			1	6020A
Zinc	6.3	2.6	0.94	0.33	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP16 SB027

Lab Sample ID: 280-21902-70

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 14:20

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 82.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.047	0.23	0.047	0.016	mg/Kg	U	Q	1	6020A
Copper	1.1	2.9	0.23	0.083	mg/Kg	J		1	6020A
Lead	13	0.12	0.059	0.021	mg/Kg			1	6020A
Nickel	1.5	0.41	0.088	0.030	mg/Kg			1	6020A
Zinc	4.0	2.9	1.1	0.37	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP16 SB028

Lab Sample ID: 280-21902-71

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 14:40

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 84.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.045	0.23	0.045	0.016	mg/Kg	U	Q	1	6020A
Copper	1.6	2.8	0.23	0.080	mg/Kg	J		1	6020A
Lead	8.3	0.11	0.056	0.021	mg/Kg			1	6020A
Nickel	4.4	0.40	0.085	0.029	mg/Kg			1	6020A
Zinc	8.5	2.8	1.0	0.36	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP19 SB034

Lab Sample ID: 280-21902-72

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 14:42

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 79.3

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.048	0.24	0.048	0.017	mg/Kg	U	Q	1	6020A
Copper	1.1	3.0	0.24	0.086	mg/Kg	J		1	6020A
Lead	17	0.12	0.061	0.022	mg/Kg			1	6020A
Nickel	1.5	0.42	0.091	0.031	mg/Kg			1	6020A
Zinc	4.8	3.0	1.1	0.38	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP19 SB035

Lab Sample ID: 280-21902-73

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 14:44

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 85.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.041	0.21	0.041	0.014	mg/Kg	U	Q	1	6020A
Copper	1.5	2.6	0.21	0.073	mg/Kg	J		1	6020A
Lead	11	0.10	0.051	0.019	mg/Kg			1	6020A
Nickel	2.8	0.36	0.077	0.026	mg/Kg			1	6020A
Zinc	6.4	2.6	0.92	0.32	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP17 SB029

Lab Sample ID: 280-21902-74

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 14:53

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 85.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.040	0.20	0.040	0.014	mg/Kg	U	Q	1	6020A
Copper	0.68	2.5	0.20	0.071	mg/Kg	J		1	6020A
Lead	9.4	0.10	0.050	0.018	mg/Kg			1	6020A
Nickel	1.4	0.35	0.075	0.025	mg/Kg			1	6020A
Zinc	4.2	2.5	0.90	0.31	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP17 SB030

Lab Sample ID: 280-21902-75

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/17/2011 15:03

Reporting Basis: DRY

Date Received: 10/21/2011 09:30

% Solids: 85.9

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.039	0.20	0.039	0.014	mg/Kg	U	Q	1	6020A
Copper	1.0	2.5	0.20	0.070	mg/Kg	J		1	6020A
Lead	4.3	0.099	0.049	0.018	mg/Kg			1	6020A
Nickel	2.7	0.35	0.074	0.025	mg/Kg			1	6020A
Zinc	5.8	2.5	0.89	0.31	mg/Kg			1	6020A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

ICV Source: MS ICV_00452 Concentration Units: ug/L

CCV Source: MS CCV_00453

Analyte	ICV 280-95284/4 11/07/2011 19:57				CCV 280-95284/14 11/07/2011 20:25				CCV 280-95284/26 11/07/2011 21:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	38.7		40.0	97	48.4		50.0	97	48.9		50.0	98
Copper	39.2		40.0	98	47.8		50.0	96	49.6		50.0	99
Lead	40.9		40.0	102	49.5		50.0	99	49.0		50.0	98
Nickel	39.9		40.0	100	48.0		50.0	96	49.4		50.0	99
Zinc	39.7		40.0	99	49.0		50.0	98	49.9		50.0	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

ICV Source: MS ICV_00452 Concentration Units: ug/L

CCV Source: MS CCV_00453

Analyte	CCV 280-95284/38 11/07/2011 21:35				CCV 280-95284/49 11/07/2011 22:07				CCV 280-95284/61 11/07/2011 22:42			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	48.5		50.0	97	49.0		50.0	98	49.2		50.0	98
Copper	49.2		50.0	98	48.8		50.0	98	49.9		50.0	100
Lead	48.9		50.0	98	48.8		50.0	98	49.1		50.0	98
Nickel	49.2		50.0	98	48.4		50.0	97	49.4		50.0	99
Zinc	49.4		50.0	99	49.4		50.0	99	49.7		50.0	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

ICV Source: MS ICV_00452   Concentration Units: ug/L

CCV Source: MS CCV_00453

Analyte	CCV 280-95284/72 11/07/2011 23:14				CCV 280-95284/82 11/07/2011 23:43				CCV 280-95284/98 11/08/2011 00:31			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	48.7		50.0	97	49.2		50.0	98	48.2		50.0	96
Copper	49.3		50.0	99	49.8		50.0	100	48.9		50.0	98
Lead	48.8		50.0	98	48.7		50.0	97	50.4		50.0	101
Nickel	48.9		50.0	98	49.8		50.0	100	48.6		50.0	97
Zinc	49.5		50.0	99	50.1		50.0	100	49.4		50.0	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

ICV Source: MS ICV_00452 Concentration Units: ug/L

CCV Source: MS CCV_00453

Analyte	CCV 280-95284/109 11/08/2011 01:03				CCV 280-95284/120 11/08/2011 01:35				CCV 280-95284/131 11/08/2011 02:07			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	49.1		50.0	98	49.2		50.0	98	48.9		50.0	98
Copper	49.9		50.0	100	51.3		50.0	103	49.4		50.0	99
Lead	51.1		50.0	102	51.2		50.0	102	50.7		50.0	101
Nickel	50.0		50.0	100	49.6		50.0	99	50.0		50.0	100
Zinc	50.4		50.0	101	50.5		50.0	101	50.0		50.0	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

ICV Source: MS LCCV dly_00452   Concentration Units: ug/L

CCV Source: MS LCCV dly_00452

Analyte	ICVL 280-95284/5 11/07/2011 20:00				CCVL 280-95284/16 11/07/2011 20:31				CCVL 280-95284/28 11/07/2011 21:06			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.20		2.00	110	2.06		2.00	103	2.06		2.00	103
Copper	2.24		2.00	112	2.19		2.00	110	2.14		2.00	107
Lead	1.11		1.00	111	1.13		1.00	113	1.08		1.00	108
Nickel	2.31		2.00	115	2.29		2.00	115	2.26		2.00	113
Zinc	10.5		10.0	105	10.5		10.0	105	10.4		10.0	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

ICV Source: MS LCCV dly_00452 Concentration Units: ug/L

CCV Source: MS LCCV dly_00452

	CCVL 280-95284/40 11/07/2011 21:41				CCVL 280-95284/51 11/07/2011 22:13				CCVL 280-95284/63 11/07/2011 22:48			
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.06		2.00	103	2.06		2.00	103	2.04		2.00	102
Copper	2.17		2.00	108	2.16		2.00	108	2.20		2.00	110
Lead	1.09		1.00	109	1.09		1.00	109	1.08		1.00	108
Nickel	2.25		2.00	112	2.26		2.00	113	2.23		2.00	111
Zinc	10.4		10.0	104	10.4		10.0	104	10.5		10.0	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

ICV Source: MS LCCV dly_00452   Concentration Units: ug/L

CCV Source: MS LCCV dly_00452

Analyte	CCVL 280-95284/74 11/07/2011 23:20				CCVL 280-95284/84 11/07/2011 23:49				CCVL 280-95284/100 11/08/2011 00:37			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.04		2.00	102	2.01		2.00	101	2.07		2.00	103
Copper	2.17		2.00	108	2.20		2.00	110	2.19		2.00	109
Lead	1.07		1.00	107	1.08		1.00	108	1.11		1.00	111
Nickel	2.22		2.00	111	2.29		2.00	115	2.26		2.00	113
Zinc	10.4		10.0	104	10.7		10.0	107	10.5		10.0	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

ICV Source: MS LCCV dly_00452   Concentration Units: ug/L

CCV Source: MS LCCV dly_00452

Analyte	CCVL 280-95284/111 11/08/2011 01:09				CCVL 280-95284/122 11/08/2011 01:41				CCVL 280-95284/133 11/08/2011 02:13			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.07		2.00	104	2.08		2.00	104	2.05		2.00	103
Copper	2.21		2.00	110	2.21		2.00	110	2.20		2.00	110
Lead	1.10		1.00	110	1.11		1.00	111	1.11		1.00	111
Nickel	2.26		2.00	113	2.28		2.00	114	2.30		2.00	115
Zinc	10.6		10.0	106	10.6		10.0	106	10.5		10.0	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

ICV Source: MS ICV_00453   Concentration Units: ug/L

CCV Source: MS CCV_00454

Analyte	ICV 280-95436/4 11/08/2011 19:06				CCV 280-95436/14 11/08/2011 19:35				CCV 280-95436/25 11/08/2011 20:07			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	39.6		40.0	99	49.6		50.0	99	50.0		50.0	100
Copper	39.5		40.0	99	48.6		50.0	97	49.8		50.0	100
Lead	41.7		40.0	104	50.5		50.0	101	50.0		50.0	100
Nickel	40.9		40.0	102	50.0		50.0	100	50.2		50.0	100
Zinc	40.2		40.0	100	49.7		50.0	99	49.3		50.0	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

ICV Source: MS ICV_00453   Concentration Units: ug/L

CCV Source: MS CCV_00454

Analyte	CCV 280-95436/36 11/08/2011 20:39				CCV 280-95436/47 11/08/2011 21:11				CCV 280-95436/59 11/08/2011 21:46			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	49.5		50.0	99	49.0		50.0	98	49.2		50.0	98
Copper	49.9		50.0	100	50.4		50.0	101	50.2		50.0	100
Lead	49.5		50.0	99	49.4		50.0	99	50.0		50.0	100
Nickel	49.8		50.0	100	50.4		50.0	101	49.3		50.0	99
Zinc	49.4		50.0	99	49.8		50.0	100	49.5		50.0	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

ICV Source: MS ICV_00453   Concentration Units: ug/L

CCV Source: MS CCV_00454

Analyte	CCV 280-95436/66 11/08/2011 22:06											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	49.0		50.0	98								
Copper	50.5		50.0	101								
Lead	49.4		50.0	99								
Nickel	50.2		50.0	100								
Zinc	49.6		50.0	99								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

ICV Source: MS LCCV dly_00453   Concentration Units: ug/L

CCV Source: MS LCCV dly_00453

Analyte	ICVL 280-95436/5 11/08/2011 19:09				CCVL 280-95436/16 11/08/2011 19:41				CCVL 280-95436/27 11/08/2011 20:13			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.25		2.00	113	2.11		2.00	105	2.09		2.00	104
Copper	2.18		2.00	109	2.23		2.00	112	2.18		2.00	109
Lead	1.10		1.00	110	1.11		1.00	111	1.11		1.00	111
Nickel	2.26		2.00	113	2.31		2.00	115	2.21		2.00	111
Zinc	10.7		10.0	107	10.6		10.0	106	10.5		10.0	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

ICV Source: MS LCCV dly_00453 Concentration Units: ug/L

CCV Source: MS LCCV dly_00453

Analyte	CCVL 280-95436/38 11/08/2011 20:45				CCVL 280-95436/49 11/08/2011 21:17				CCVL 280-95436/61 11/08/2011 21:52			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.11		2.00	106	2.13		2.00	106	2.07		2.00	103
Copper	2.18		2.00	109	2.23		2.00	112	2.18		2.00	109
Lead	1.10		1.00	110	1.09		1.00	109	1.10		1.00	110
Nickel	2.27		2.00	113	2.29		2.00	115	2.28		2.00	114
Zinc	10.5		10.0	105	10.6		10.0	106	10.4		10.0	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

ICV Source: MS LCCV dly_00453   Concentration Units: ug/L

CCV Source: MS LCCV dly_00453

Analyte	CCVL 280-95436/68 11/08/2011 22:12											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.08		2.00	104								
Copper	2.19		2.00	110								
Lead	1.08		1.00	108								
Nickel	2.27		2.00	113								
Zinc	10.5		10.0	105								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Method: 6020A Instrument ID: MT_024

Lab Sample ID: CRI 280-95284/7 Concentration Units: ug/L

CRQL Check Standard Source: MS RL STD_00463

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	1.00	1.00	J	100	80-120
Copper	1.00	0.996	J	100	80-120
Lead	1.00	0.978	J	98	80-120
Nickel	1.00	1.01	J	101	80-120
Zinc	10.0	9.92	J	99	80-120

Lab Sample ID: CRI 280-95436/7 Concentration Units: ug/L

CRQL Check Standard Source: MS RL STD_00464

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	1.00	0.998	J	100	80-120
Copper	1.00	0.984	J	98	80-120
Lead	1.00	0.984	J	98	80-120
Nickel	1.00	0.991	J	99	80-120
Zinc	10.0	10.1		101	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 280-95284/6 11/07/2011 20:02		CCB 280-95284/15 11/07/2011 20:28		CCB 280-95284/27 11/07/2011 21:03		CCB 280-95284/39 11/07/2011 21:38	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 280-95284/50 11/07/2011 22:10		CCB 280-95284/62 11/07/2011 22:45		CCB 280-95284/73 11/07/2011 23:17		CCB 280-95284/83 11/07/2011 23:46	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 280-95284/99 11/08/2011 00:34		CCB 280-95284/110 11/08/2011 01:06		CCB 280-95284/121 11/08/2011 01:38		CCB 280-95284/132 11/08/2011 02:10	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 280-95436/6 11/08/2011 19:12		CCB 280-95436/15 11/08/2011 19:38		CCB 280-95436/26 11/08/2011 20:10		CCB 280-95436/37 11/08/2011 20:42	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 280-95436/48 11/08/2011 21:14		CCB 280-95436/60 11/08/2011 21:49		CCB 280-95436/67 11/08/2011 22:09			
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U		
Copper	2.0	1.5	U	1.5	U	1.5	U		
Lead	1.0	0.50	U	0.50	U	0.50	U		
Nickel	2.0	0.90	U	0.90	U	0.90	U		
Zinc	10	6.0	U	6.0	U	6.0	U		

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 280-92642/1-A

Instrument Code: MT_024 Batch No.: 95284

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.033	U	Q	6020A
7440-50-8	Copper	0.0628	J		6020A
7439-92-1	Lead	0.0156	J		6020A
7440-02-0	Nickel	0.0352	J		6020A
7440-66-6	Zinc	0.405	J		6020A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Concentration Units: mg/Kg   Lab Sample ID: MB 280-92643/1-A

Instrument Code: MT_024   Batch No.: 95284

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.035	U	Q	6020A
7440-50-8	Copper	0.0784	J		6020A
7439-92-1	Lead	0.044	U		6020A
7440-02-0	Nickel	0.0250	J		6020A
7440-66-6	Zinc	0.80	U		6020A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Concentration Units: mg/Kg   Lab Sample ID: MB 280-92644/1-A

Instrument Code: MT_024   Batch No.: 95284

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.033	U	Q	6020A
7440-50-8	Copper	0.176	J		6020A
7439-92-1	Lead	0.0374	J		6020A
7440-66-6	Zinc	0.435	J		6020A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 280-92644/1-A

Instrument Code: MT_024 Batch No.: 95436

CAS No.	Analyte	Concentration	C	Q	Method
7440-02-0	Nickel	0.136	J		6020A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Concentration Units: mg/Kg   Lab Sample ID: MB 280-95210/1-A

Instrument Code: MT_024   Batch No.: 95436

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.040	U	Q	6020A
7440-50-8	Copper	0.20	U		6020A
7439-92-1	Lead	0.050	U		6020A
7440-02-0	Nickel	0.0147	J		6020A
7440-66-6	Zinc	0.90	U		6020A

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Lab Sample ID: ICSA 280-95284/9   Instrument ID: MT_024

Lab File ID: 010ICSA.D   ICS Source: MS ICSA_00451

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.286**	
Copper		**0.377**	
Lead		**0.140**	
Nickel		**0.709**	
Zinc		**2.40**	
Arsenic		*0.512*	
Barium		*0.186*	
Beryllium		*0.0228*	
Cadmium		*0.536*	
Chromium		*1.13*	
Co		*0.0474*	
Manganese		*0.449*	
Molybdenum	*2000*	*2017*	*101*
Selenium		*0.376*	
Silver		*0.0560*	
Thallium		*0.0464*	
Tin		*0.241*	
Uranium		*0.0011*	
Vanadium		*0.101*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Lab Sample ID: ICSAB 280-95284/10 Instrument ID: MT_024

Lab File ID: 011ICSB.D ICS Source: MS ICSAB_00454

Concentration Units: ug/L

Analyte	True	Found	
	Solution AB	Solution AB	Percent Recovery
Antimony	**100**	**107**	**107**
Copper	**100**	**91.8**	**92**
Lead	**100**	**94.5**	**94**
Nickel	**100**	**94.0**	**94**
Zinc	**100**	**99.4**	**99**
Arsenic	*100*	*105*	*105*
Barium	*100*	*105*	*105*
Beryllium	*100*	*99.9*	*100*
Cadmium	*100*	*97.7*	*98*
Chromium	*100*	*101*	*101*
Co	*100*	*97.7*	*98*
Manganese	*100*	*98.0*	*98*
Molybdenum	*2100*	*2134*	*102*
Selenium	*100*	*110*	*110*
Silver	*100*	*91.1*	*91*
Thallium	*100*	*94.7*	*95*
Tin	*100*	*101*	*101*
Uranium	*100*	*99.8*	*100*
Vanadium	*100*	*102*	*102*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Lab Sample ID: ICSA 280-95436/9   Instrument ID: MT_024

Lab File ID: 010ICSA.D   ICS Source: MS ICSA_00452

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.291**	
Copper		**0.335**	
Lead		**0.135**	
Nickel		**0.778**	
Zinc		**2.67**	
Arsenic		*0.513*	
Barium		*0.195*	
Beryllium		*0.0005*	
Cadmium		*0.557*	
Chromium		*1.10*	
Co		*0.0523*	
Manganese		*0.468*	
Molybdenum	*2000*	*2031*	*102*
Selenium		*0.263*	
Silver		*0.0633*	
Thallium		*0.0257*	
Tin		*0.124*	
Uranium		*0.0014*	
Vanadium		*0.203*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Lab Sample ID: ICSAB 280-95436/10   Instrument ID: MT_024

Lab File ID: 011ICSB.D   ICS Source: MS ICSAB_00455

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Antimony	**100**	**106**	**106**
Copper	**100**	**90.8**	**91**
Lead	**100**	**95.9**	**96**
Nickel	**100**	**93.2**	**93**
Zinc	**100**	**99.2**	**99**
Arsenic	*100*	*105*	*105*
Barium	*100*	*105*	*105*
Beryllium	*100*	*100*	*100*
Cadmium	*100*	*98.4*	*98*
Chromium	*100*	*99.8*	*100*
Co	*100*	*96.0*	*96*
Manganese	*100*	*100*	*100*
Molybdenum	*2100*	*2161*	*103*
Selenium	*100*	*110*	*110*
Silver	*100*	*90.4*	*90*
Thallium	*100*	*96.2*	*96*
Tin	*100*	*97.7*	*98*
Uranium	*100*	*102*	*102*
Vanadium	*100*	*103*	*103*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: TP05 SD018 MS | Lab ID: 280-21902-1 MS

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 61.8

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	4.51		0.027	J	29.9	15	82-110	Q J	6020A
Copper	38.5		5.2		29.9	111	87-125		6020A
Lead	48.4		11		29.9	125	81-125		6020A
Nickel	44.4		7.4		29.9	123	90-113	J	6020A
Zinc	71.5		34		29.9	124	85-119	J	6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: CP23 SB043 MS | Lab ID: 280-21902-52 MS

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 88.3

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	2.97		0.040	U	21.2	14	82-110	Q J	6020A
Copper	22.5		1.3	J	21.2	100	87-125		6020A
Lead	25.4		4.0		21.2	101	81-125		6020A
Nickel	25.0		3.7		21.2	101	90-113		6020A
Zinc	29.5		7.8		21.2	103	85-119		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: CP03 IS009 MS　　Lab ID: 280-21902-53 MS

Lab Name: TestAmerica Denver　　Job No.: 280-21902-1

SDG No.:

Matrix: Solid　　Concentration Units: mg/Kg

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	1.33		0.017	J	9.64	14	82-110	Q J	6020A
Copper	11.3		2.1	J	9.64	96	87-125		6020A
Lead	18.0		9.0		9.64	93	81-125		6020A
Nickel	11.1		1.6		9.64	98	90-113		6020A
Zinc	19.0		9.7		9.64	96	85-119		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: CP13 SB020 MS　　Lab ID: 280-21902-61 MS

Lab Name: TestAmerica Denver　　Job No.: 280-21902-1

SDG No.:

Matrix: Solid　　Concentration Units: mg/Kg

% Solids: 88.7

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	3.56		0.042	U	21.5	17	82-110	Q J	6020A
Copper	22.0		1.1	J	21.5	98	87-125		6020A
Lead	26.6		4.5		21.5	103	81-125		6020A
Nickel	25.4		2.4		21.5	107	90-113		6020A
Zinc	28.2		5.5		21.5	106	85-119		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: TP05 SD018 MSD | Lab ID: 280-21902-1 MSD

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 61.8

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	3.94		27.6	14	82-110	13	20	Q J	6020A
Copper	31.3		27.6	94	87-125	21	20	J	6020A
Lead	38.3		27.6	98	81-125	23	20	J	6020A
Nickel	34.3		27.6	97	90-113	26	20	J	6020A
Zinc	61.1		27.6	96	85-119	16	20		6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: CP23 SB043 MSD   Lab ID: 280-21902-52 MSD

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Matrix: Solid   Concentration Units: mg/Kg

% Solids: 88.3

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	2.87		20.6	14	82-110	3	20	Q J	6020A
Copper	21.3		20.6	97	87-125	6	20		6020A
Lead	24.5		20.6	100	81-125	4	20		6020A
Nickel	24.0		20.6	99	90-113	4	20		6020A
Zinc	27.8		20.6	97	85-119	6	20		6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: CP03 IS009 MSD

Lab ID: 280-21902-53 MSD

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	1.29		9.72	13	82-110	3	20	Q J	6020A
Copper	11.4		9.72	96	87-125	0	20		6020A
Lead	18.1		9.72	93	81-125	0	20		6020A
Nickel	11.0		9.72	97	90-113	0	20		6020A
Zinc	18.7		9.72	93	85-119	1	20		6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: CP13 SB020 MSD

Lab ID: 280-21902-61 MSD

Lab Name: TestAmerica Denver

Job No.: 280-21902-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 88.7

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	3.39		21.5	16	82-110	5	20	Q J	6020A
Copper	22.4		21.5	99	87-125	2	20		6020A
Lead	26.4		21.5	102	81-125	1	20		6020A
Nickel	25.6		21.5	108	90-113	1	20		6020A
Zinc	28.3		21.5	106	85-119	0	20		6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: TP05 SD018 PDS | Lab ID: 280-21902-1 PDS

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	131		0.027	J	138	95	75-125	Q	6020A
Copper	132		5.2		138	92	75-125		6020A
Lead	137		11		138	91	75-125		6020A
Nickel	140		7.4		138	96	75-125		6020A
Zinc	161		34		138	92	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: CP23 SB043 PDS   Lab ID: 280-21902-52 PDS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Matrix: Solid   Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	97.1		0.040	U	99.3	98	75-125	Q	6020A
Copper	93.6		1.3	J	99.3	93	75-125		6020A
Lead	96.8		4.0		99.3	93	75-125		6020A
Nickel	101		3.7		99.3	98	75-125		6020A
Zinc	101		7.8		99.3	94	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: CP03 IS009 PDS   Lab ID: 280-21902-53 PDS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Matrix: Solid   Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	49.5		0.017	J	46.9	106	75-125	Q	6020A
Copper	49.6		2.1	J	46.9	101	75-125		6020A
Lead	56.4		9.0		46.9	101	75-125		6020A
Nickel	51.9		1.6		46.9	107	75-125		6020A
Zinc	56.9		9.7		46.9	101	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: CP13 SB020 PDS | Lab ID: 280-21902-61 PDS

Lab Name: TestAmerica Denver | Job No.: 280-21902-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	103		0.042	U	105	98	75-125	Q	6020A
Copper	103		1.1	J	105	96	75-125		6020A
Lead	108		4.5		105	99	75-125		6020A
Nickel	113		2.4		105	105	75-125		6020A
Zinc	107		5.5		105	97	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-92642/2-A

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

Sample Matrix: Solid   LCS Source: MS CALSTD-2_00053

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	17.5	16.9		96	82	110	Q	6020A
Copper	17.5	17.6		100	87	125		6020A
Lead	17.5	17.9		102	81	125		6020A
Nickel	17.5	17.6		100	90	113		6020A
Zinc	17.5	17.6		100	85	119		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-92643/2-A

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

Sample Matrix: Solid   LCS Source: MS CALSTD-2_00053

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	17.7	17.3		98	82	110	Q	6020A
Copper	17.7	17.4		98	87	125		6020A
Lead	17.7	17.5		99	81	125		6020A
Nickel	17.7	17.6		99	90	113		6020A
Zinc	17.7	17.3		98	85	119		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-92644/2-A

Lab Name: TestAmerica Denver Job No.: 280-21902-1

Sample Matrix: Solid LCS Source: MS CALSTD-2_00053

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	18.3	18.2		99	82	110	Q	6020A
Copper	18.3	18.7		102	87	125		6020A
Lead	18.3	19.2		104	81	125		6020A
Zinc	18.3	18.6		101	85	119		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-92644/2-A

Lab Name: TestAmerica Denver Job No.: 280-21902-1

Sample Matrix: Solid LCS Source: MS CALSTD-1_00054

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Nickel	18.3	19.5		106	90	113		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-95210/2-A

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

Sample Matrix: Solid   LCS Source: MS CALSTD-2_00053

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	9.67	9.15		95	82	110	Q	6020A
Copper	9.67	9.45		98	87	125		6020A
Lead	9.67	9.59		99	81	125		6020A
Nickel	9.67	9.55		99	90	113		6020A
Zinc	9.67	9.22		95	85	119		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 280-95210/3-A

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

Sample Matrix: Solid   LCS Source: MS CALSTD-2_00053

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	9.41		9.92	95	82-110	3	20	Q	6020A
Copper	9.63		9.92	97	87-125	2	20		6020A
Lead	9.69		9.92	98	81-125	1	20		6020A
Nickel	9.78		9.92	99	90-113	2	20		6020A
Zinc	9.53		9.92	96	85-119	3	20		6020A

SDR = Spike Duplicate Results

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-21902-1

SDG No:

Lab Name: TestAmerica Denver | Job No: 280-21902-1

Matrix: Solid | Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.027	J	0.28	U	NC	Q	6020A
Copper	5.2		5.39	J	3.0	D	6020A
Lead	11		11.2		1.8	D	6020A
Nickel	7.4		7.70		3.7	D	6020A
Zinc	34		35.0		1.5	D	6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-21902-52

SDG No:

Lab Name: TestAmerica Denver

Job No: 280-21902-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.040	U	0.20	U	NC	Q	6020A
Copper	1.3	J	1.21	J	NC	D	6020A
Lead	4.0		3.89		3.2	D	6020A
Nickel	3.7		3.66		0.43	D	6020A
Zinc	7.8		7.83	J	NC	D	6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-21902-53

SDG No:

Lab Name: TestAmerica Denver   Job No: 280-21902-1

Matrix: Solid   Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.017	J	0.19	U	NC	Q	6020A
Copper	2.1	J	2.02	J	1.7	D	6020A
Lead	9.0		8.88		1.9	D	6020A
Nickel	1.6		1.63		1.1	D	6020A
Zinc	9.7		9.63	J	0.59	D	6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-21902-61

SDG No:

Lab Name: TestAmerica Denver   Job No: 280-21902-1

Matrix: Solid   Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.042	U	0.21	U	NC	Q	6020A
Copper	1.1	J	1.05	J	NC	D	6020A
Lead	4.5		4.59		1.7	D	6020A
Nickel	2.4		2.35		1.9	D	6020A
Zinc	5.5		5.42	J	NC	D	6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver　　Job Number: 280-21902-1

SDG Number:

Matrix: Solid　　Instrument ID: MT_024

Method: 6020A　　DL Date: 06/20/2011 12:15

Prep Method: 3050B

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (ug/Kg)
Antimony	121	0.2	14
Copper	63	2.5	71.1
Lead	208	0.1	18.2
Nickel	60	0.35	25.3
Zinc	66	2.5	316

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver   Job Number: 280-21902-1

SDG Number:

Matrix: Solid   Instrument ID: MT_024

Method: 6020A   XMDL Date: 06/20/2011 12:42

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony		2	0.07
Copper		2	0.56
Lead		1	0.18
Nickel		2	0.3
Zinc		10	2

FORM IX - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver　　Job Number: 280-21902-1

SDG Number:

Matrix: Solid　　Instrument ID: MT_024

Method: 6020A　　DL Date: 06/20/2011 12:15

Prep Method: 3050B

Leach Method: Increm, Prep

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (ug/Kg)
Antimony	121	0.2	14
Copper	63	2.5	71.1
Lead	208	0.1	18.2
Nickel	60	0.35	25.3
Zinc	66	2.5	316

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver   Job Number: 280-21902-1

SDG Number:

Matrix: Solid   Instrument ID: MT_024

Method: 6020A   XMDL Date: 06/20/2011 12:42

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony		2	0.07
Copper		2	0.56
Lead		1	0.18
Nickel		2	0.3
Zinc		10	2

FORM IX - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Denver Job No: 280-21902-1

SDG No.:

Instrument ID: MT_024 Date: 10/10/2011 16:29

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Antimony		4000	6020A
Copper		4000	6020A
Lead		4000	6020A
Nickel		4000	6020A
Zinc		4000	6020A

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-92642/1-A	11/05/2011 05:00	92642	1.20		100
LCS 280-92642/2-A	11/05/2011 05:00	92642	1.14		100
280-21902-1	11/05/2011 05:00	92642	1.17		100
280-21902-1 MS	11/05/2011 05:00	92642	1.08		100
280-21902-1 MSD	11/05/2011 05:00	92642	1.17		100
280-21902-2	11/05/2011 05:00	92642	1.17		100
280-21902-3	11/05/2011 05:00	92642	1.15		100
280-21902-4	11/05/2011 05:00	92642	1.05		100
280-21902-5	11/05/2011 05:00	92642	1.03		100
280-21902-6	11/05/2011 05:00	92642	1.05		100
280-21902-7	11/05/2011 05:00	92642	1.20		100
280-21902-8	11/05/2011 05:00	92642	1.07		100
280-21902-9	11/05/2011 05:00	92642	1.08		100
280-21902-10	11/05/2011 05:00	92642	1.14		100
280-21902-11	11/05/2011 05:00	92642	1.14		100
280-21902-12	11/05/2011 05:00	92642	1.03		100
280-21902-13	11/05/2011 05:00	92642	1.18		100
280-21902-14	11/05/2011 05:00	92642	1.01		100
280-21902-15	11/05/2011 05:00	92642	1.07		100
280-21902-16	11/05/2011 05:00	92642	1.12		100
280-21902-17	11/05/2011 05:00	92642	1.05		100
280-21902-18	11/05/2011 05:00	92642	1.13		100
280-21902-19	11/05/2011 05:00	92642	1.12		100
280-21902-20	11/05/2011 05:00	92642	1.15		100

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-92643/1-A	11/05/2011 05:00	92643	1.13		100
LCS 280-92643/2-A	11/05/2011 05:00	92643	1.13		100
280-21902-21	11/05/2011 05:00	92643	1.09		100
280-21902-22	11/05/2011 05:00	92643	1.17		100
280-21902-23	11/05/2011 05:00	92643	1.19		100
280-21902-35	11/05/2011 05:00	92643	1.17		100
280-21902-36	11/05/2011 05:00	92643	1.10		100
280-21902-37	11/05/2011 05:00	92643	1.07		100
280-21902-38	11/05/2011 05:00	92643	1.16		100
280-21902-39	11/05/2011 05:00	92643	1.17		100
280-21902-40	11/05/2011 05:00	92643	1.14		100
280-21902-41	11/05/2011 05:00	92643	1.17		100
280-21902-42	11/05/2011 05:00	92643	1.09		100
280-21902-43	11/05/2011 05:00	92643	1.06		100
280-21902-44	11/05/2011 05:00	92643	1.17		100
280-21902-45	11/05/2011 05:00	92643	1.02		100
280-21902-46	11/05/2011 05:00	92643	1.03		100
280-21902-47	11/05/2011 05:00	92643	1.01		100
280-21902-48	11/05/2011 05:00	92643	1.14		100
280-21902-52	11/05/2011 05:00	92643	1.14		100
280-21902-52 MS	11/05/2011 05:00	92643	1.07		100
280-21902-52 MSD	11/05/2011 05:00	92643	1.10		100

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-92644/1-A	11/06/2011 10:00	92644	1.20		100
LCS 280-92644/2-A	11/06/2011 10:00	92644	1.09		100
280-21902-50	11/06/2011 10:00	92644	1.05		100
280-21902-51	11/06/2011 10:00	92644	1.13		100
280-21902-59	11/06/2011 10:00	92644	1.01		100
280-21902-60	11/06/2011 10:00	92644	1.01		100
280-21902-61	11/06/2011 10:00	92644	1.07		100
280-21902-61 MS	11/06/2011 10:00	92644	1.05		100
280-21902-61 MSD	11/06/2011 10:00	92644	1.05		100
280-21902-63	11/06/2011 10:00	92644	1.06		100
280-21902-64	11/06/2011 10:00	92644	1.04		100
280-21902-65	11/06/2011 10:00	92644	1.05		100
280-21902-66	11/06/2011 10:00	92644	1.17		100
280-21902-67	11/06/2011 10:00	92644	1.10		100
280-21902-68	11/06/2011 10:00	92644	1.08		100
280-21902-69	11/06/2011 10:00	92644	1.10		100
280-21902-70	11/06/2011 10:00	92644	1.04		100
280-21902-71	11/06/2011 10:00	92644	1.05		100
280-21902-72	11/06/2011 10:00	92644	1.04		100
280-21902-73	11/06/2011 10:00	92644	1.14		100
280-21902-74	11/06/2011 10:00	92644	1.18		100
280-21902-75	11/06/2011 10:00	92644	1.18		100

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-95210/1-A	11/08/2011 09:00	95210	10.01		500
LCS 280-95210/2-A	11/08/2011 09:00	95210	10.34		500
LCSD 280-95210/3-A	11/08/2011 09:00	95210	10.08		500
280-21902-53	11/08/2011 09:00	95210	10.67		500
280-21902-53 MS	11/08/2011 09:00	95210	10.37		500
280-21902-53 MSD	11/08/2011 09:00	95210	10.29		500
280-21902-54	11/08/2011 09:00	95210	10.09		500
280-21902-55	11/08/2011 09:00	95210	10.25		500
280-21902-56	11/08/2011 09:00	95210	10.38		500
280-21902-57	11/08/2011 09:00	95210	10.22		500
280-21902-58	11/08/2011 09:00	95210	10.26		500

FORM XII-IN

ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/07/2011 19:45 End Date: 11/08/2011 07:50

Lab Sample ID	D/F	Type	Time	Cu	Ni	Pb	Sb	Zn
ITUNE 280-95284/1			19:45					
IC 280-95284/2	1		19:51	X	X	X	X	X
IC 280-95284/3	1		19:54	X	X	X	X	X
ICV 280-95284/4	1		19:57	X	X	X	X	X
ICVL 280-95284/5	1		20:00	X	X	X	X	X
ICB 280-95284/6	1		20:02	X	X	X	X	X
CRI 280-95284/7	1		20:05	X	X	X	X	X
ZZZZZZ			20:08					
ICSA 280-95284/9	1		20:11	X	X	X	X	X
ICSAB 280-95284/10	1		20:14	X	X	X	X	X
RINSE 280-95284/11			20:17					
LRA 280-95284/12			20:20					
RINSE 280-95284/13			20:23					
CCV 280-95284/14	1		20:25	X	X	X	X	X
CCB 280-95284/15	1		20:28	X	X	X	X	X
CCVL 280-95284/16	1		20:31	X	X	X	X	X
MB 280-92642/1-A	1	T	20:34	X	X	X	X	X
LCS 280-92642/2-A	1	T	20:37	X	X	X	X	X
280-21902-1	1	T	20:40	X	X	X	X	X
280-21902-1 SD	5	T	20:43	X	X	X	X	X
280-21902-1 PDS	1	T	20:46	X	X	X	X	X
280-21902-1 MS	1	T	20:48	X	X	X	X	X
280-21902-1 MSD	1	T	20:51	X	X	X	X	X
280-21902-2	1	T	20:54	X	X	X	X	X
280-21902-3	1	T	20:57	X	X	X	X	X
CCV 280-95284/26	1		21:00	X	X	X	X	X
CCB 280-95284/27	1		21:03	X	X	X	X	X
CCVL 280-95284/28	1		21:06	X	X	X	X	X
280-21902-4	1	T	21:09	X	X	X	X	X
280-21902-5	1	T	21:12	X	X	X	X	X
280-21902-6	1	T	21:15	X	X	X	X	X
280-21902-7	1	T	21:17	X	X	X	X	X
280-21902-8	1	T	21:20	X	X	X	X	X
280-21902-9	1	T	21:23	X	X	X	X	X
280-21902-10	1	T	21:26	X	X	X	X	X
280-21902-11	1	T	21:29	X	X	X	X	X
280-21902-12	1	T	21:32	X	X	X	X	X
CCV 280-95284/38	1		21:35	X	X	X	X	X
CCB 280-95284/39	1		21:38	X	X	X	X	X
CCVL 280-95284/40	1		21:41	X	X	X	X	X
280-21902-13	1	T	21:44	X	X	X	X	X
280-21902-14	1	T	21:46	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/07/2011 19:45 End Date: 11/08/2011 07:50

Lab Sample ID	D/F	Type	Time	Cu	Ni	Pb	Sb	Zn
280-21902-15	1	T	21:49	X	X	X	X	X
280-21902-16	1	T	21:52	X	X	X	X	X
280-21902-17	1	T	21:55	X	X	X	X	X
280-21902-18	1	T	21:58	X	X	X	X	X
280-21902-19	1	T	22:01	X	X	X	X	X
280-21902-20	1	T	22:04	X	X	X	X	X
CCV 280-95284/49	1		22:07	X	X	X	X	X
CCB 280-95284/50	1		22:10	X	X	X	X	X
CCVL 280-95284/51	1		22:13	X	X	X	X	X
MB 280-92643/1-A	1	T	22:16	X	X	X	X	X
LCS 280-92643/2-A	1	T	22:19	X	X	X	X	X
280-21902-21	1	T	22:21	X	X	X	X	X
280-21902-22	1	T	22:24	X	X	X	X	X
280-21902-23	1	T	22:27	X	X	X	X	X
280-21902-35	1	T	22:30	X	X	X	X	X
280-21902-36	1	T	22:33	X	X	X	X	X
280-21902-37	1	T	22:36	X	X	X	X	X
280-21902-38	1	T	22:39	X	X	X	X	X
CCV 280-95284/61	1		22:42	X	X	X	X	X
CCB 280-95284/62	1		22:45	X	X	X	X	X
CCVL 280-95284/63	1		22:48	X	X	X	X	X
280-21902-39	1	T	22:51	X	X	X	X	X
280-21902-40	1	T	22:53	X	X	X	X	X
280-21902-41	1	T	22:56	X	X	X	X	X
280-21902-42	1	T	22:59	X	X	X	X	X
280-21902-43	1	T	23:02	X	X	X	X	X
280-21902-44	1	T	23:05	X	X	X	X	X
280-21902-45	1	T	23:08	X	X	X	X	X
280-21902-46	1	T	23:11	X	X	X	X	X
CCV 280-95284/72	1		23:14	X	X	X	X	X
CCB 280-95284/73	1		23:17	X	X	X	X	X
CCVL 280-95284/74	1		23:20	X	X	X	X	X
280-21902-52	1	T	23:23	X	X	X	X	X
280-21902-52 SD	5	T	23:26	X	X	X	X	X
280-21902-52 PDS	1	T	23:29	X	X	X	X	X
280-21902-52 MS	1	T	23:31	X	X	X	X	X
280-21902-52 MSD	1	T	23:34	X	X	X	X	X
280-21902-47	1	T	23:37	X	X	X	X	X
280-21902-48	1	T	23:40	X	X	X	X	X
CCV 280-95284/82	1		23:43	X	X	X	X	X
CCB 280-95284/83	1		23:46	X	X	X	X	X
CCVL 280-95284/84	1		23:49	X	X	X	X	X

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/07/2011 19:45 End Date: 11/08/2011 07:50

Lab Sample ID	D/F	Type	Time	Analytes																			
				Cu	Ni	Pb	Sb	Zn															
ZZZZZZ			23:52																				
ZZZZZZ			23:55																				
ZZZZZZ			23:57																				
ZZZZZZ			00:00																				
ZZZZZZ			00:03																				
ZZZZZZ			00:07																				
CCV 280-95284/91			00:10																				
CCB 280-95284/92			00:13																				
CCVL 280-95284/93			00:16																				
RINSE 280-95284/94			00:19																				
ZZZZZZ			00:22																				
IC 280-95284/96	1		00:25	X	X	X	X	X															
IC 280-95284/97	1		00:28	X	X	X	X	X															
CCV 280-95284/98	1		00:31	X	X	X	X	X															
CCB 280-95284/99	1		00:34	X	X	X	X	X															
CCVL 280-95284/100	1		00:37	X	X	X	X	X															
MB 280-92644/1-A	1	T	00:40	X		X	X	X															
LCS 280-92644/2-A	1	T	00:43	X		X	X	X															
280-21902-50	1	T	00:45	X		X	X	X															
280-21902-51	1	T	00:48	X		X	X	X															
280-21902-59	1	T	00:51	X		X	X	X															
280-21902-60	1	T	00:54	X		X	X	X															
280-21902-61	1	T	00:57	X		X	X	X															
280-21902-61 SD	5	T	01:00	X		X	X	X															
CCV 280-95284/109	1		01:03	X	X	X	X	X															
CCB 280-95284/110	1		01:06	X	X	X	X	X															
CCVL 280-95284/111	1		01:09	X	X	X	X	X															
280-21902-61 PDS	1	T	01:12	X		X	X	X															
280-21902-61 MS	1	T	01:15	X		X	X	X															
280-21902-61 MSD	1	T	01:17	X		X	X	X															
280-21902-63	1	T	01:20	X		X	X	X															
280-21902-64	1	T	01:23	X		X	X	X															
280-21902-65	1	T	01:26	X		X	X	X															
280-21902-66	1	T	01:29	X		X	X	X															
280-21902-67	1	T	01:32	X		X	X	X															
CCV 280-95284/120	1		01:35	X	X	X	X	X															
CCB 280-95284/121	1		01:38	X	X	X	X	X															
CCVL 280-95284/122	1		01:41	X	X	X	X	X															
280-21902-68	1	T	01:44	X		X	X	X															
280-21902-69	1	T	01:47	X		X	X	X															
280-21902-70	1	T	01:49	X		X	X	X															
280-21902-71	1	T	01:52	X		X	X	X															

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: MT_024   Method: 6020A

Start Date: 11/07/2011 19:45   End Date: 11/08/2011 07:50

Lab Sample ID	D/F	Type	Time	Cu	Ni	Pb	Sb	Zn
280-21902-72	1	T	01:55	X		X	X	X
280-21902-73	1	T	01:58	X		X	X	X
280-21902-74	1	T	02:01	X		X	X	X
280-21902-75	1	T	02:04	X		X	X	X
CCV 280-95284/131	1		02:07	X	X	X	X	X
CCB 280-95284/132	1		02:10	X	X	X	X	X
CCVL 280-95284/133	1		02:13	X	X	X	X	X
ZZZZZZ			02:16					
ZZZZZZ			02:19					
ZZZZZZ			02:22					
ZZZZZZ			02:25					
ZZZZZZ			02:27					
ZZZZZZ			02:30					
ZZZZZZ			02:33					
ZZZZZZ			02:36					
ZZZZZZ			02:39					
CCV 280-95284/143			02:42					
CCB 280-95284/144			02:45					
CCVL 280-95284/145			02:47					
ZZZZZZ			02:50					
ZZZZZZ			02:53					
ZZZZZZ			02:56					
ZZZZZZ			02:59					
CCV 280-95284/150			03:02					
CCB 280-95284/151			03:05					
CCVL 280-95284/152			03:08					
IC 280-95284/153			04:53	X	X	X	X	X
IC 280-95284/154			04:55	X	X	X	X	X
CCV 280-95284/155			04:58					
CCB 280-95284/156			05:01					
CCVL 280-95284/157			05:04					
CCV 280-95284/158			05:24					
CCB 280-95284/159			05:27					
ZZZZZZ			05:30					
ZZZZZZ			05:33					
ZZZZZZ			05:36					
ZZZZZZ			05:39					
ZZZZZZ			05:42					
ZZZZZZ			05:45					
ZZZZZZ			05:48					
ZZZZZZ			05:50					
ZZZZZZ			05:53					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/07/2011 19:45 End Date: 11/08/2011 07:50

Lab Sample ID	D/F	Type	Time	Analytes: Cu	Ni	Pb	Sb	Zn
CCV 280-95284/169			05:56					
CCB 280-95284/170			05:59					
ZZZZZZ			06:02					
ZZZZZZ			06:05					
ZZZZZZ			06:08					
ZZZZZZ			06:11					
ZZZZZZ			06:14					
ZZZZZZ			06:17					
ZZZZZZ			06:19					
ZZZZZZ			06:22					
ZZZZZZ			06:25					
ZZZZZZ			06:28					
CCV 280-95284/181			06:31					
CCB 280-95284/182			06:34					
CCVL 280-95284/183			06:37					
ZZZZZZ			06:40					
ZZZZZZ			06:43					
ZZZZZZ			06:46					
ZZZZZZ			06:49					
ZZZZZZ			06:52					
ZZZZZZ			06:55					
ZZZZZZ			06:58					
ZZZZZZ			07:00					
ZZZZZZ			07:03					
ZZZZZZ			07:06					
CCV 280-95284/194			07:09					
CCB 280-95284/195			07:12					
CCVL 280-95284/196			07:15					
ZZZZZZ			07:18					
ZZZZZZ			07:21					
ZZZZZZ			07:24					
ZZZZZZ			07:27					
ZZZZZZ			07:30					
ZZZZZZ			07:32					
ZZZZZZ			07:35					
ZZZZZZ			07:38					
ZZZZZZ			07:41					
CCV 280-95284/206			07:44					
CCB 280-95284/207			07:47					
CCVL 280-95284/208			07:50					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name:	TestAmerica Denver	Job No.:	280-21902-1
SDG No.:			
Instrument ID:	MT_024	Method:	6020A
Start Date:	11/07/2011 19:45	End Date:	11/08/2011 07:50

Prep Types

T = Total/NA

ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: MT_024   Method: 6020A

Start Date: 11/08/2011 18:55   End Date: 11/09/2011 00:51

Lab Sample ID	D/F	Type	Time	Cu	Ni	Pb	Sb	Zn
ITUNE 280-95436/1			18:55					
IC 280-95436/2	1		19:01	X	X	X	X	X
IC 280-95436/3	1		19:04	X	X	X	X	X
ICV 280-95436/4	1		19:06	X	X	X	X	X
ICVL 280-95436/5	1		19:09	X	X	X	X	X
ICB 280-95436/6	1		19:12	X	X	X	X	X
CRI 280-95436/7	1		19:15	X	X	X	X	X
ZZZZZZ			19:18					
ICSA 280-95436/9	1		19:21	X	X	X	X	X
ICSAB 280-95436/10	1		19:24	X	X	X	X	X
RINSE 280-95436/11			19:27					
LRA 280-95436/12			19:30					
RINSE 280-95436/13			19:32					
CCV 280-95436/14	1		19:35	X	X	X	X	X
CCB 280-95436/15	1		19:38	X	X	X	X	X
CCVL 280-95436/16	1		19:41	X	X	X	X	X
MB 280-92644/1-A	1	T	19:44		X			
LCS 280-92644/2-A	1	T	19:47		X			
280-21902-50	1	T	19:50		X			
280-21902-51	1	T	19:53		X			
280-21902-59	1	T	19:55		X			
280-21902-60	1	T	19:58		X			
280-21902-61	1	T	20:01		X			
280-21902-61 SD	5	T	20:04		X			
CCV 280-95436/25	1		20:07	X	X	X	X	X
CCB 280-95436/26	1		20:10	X	X	X	X	X
CCVL 280-95436/27	1		20:13	X	X	X	X	X
280-21902-61 PDS	1	T	20:16		X			
280-21902-61 MS	1	T	20:19		X			
280-21902-61 MSD	1	T	20:22		X			
280-21902-63	1	T	20:24		X			
280-21902-64	1	T	20:27		X			
280-21902-65	1	T	20:30		X			
280-21902-66	1	T	20:33		X			
280-21902-67	1	T	20:36		X			
CCV 280-95436/36	1		20:39	X	X	X	X	X
CCB 280-95436/37	1		20:42	X	X	X	X	X
CCVL 280-95436/38	1		20:45	X	X	X	X	X
280-21902-68	1	T	20:48		X			
280-21902-69	1	T	20:51		X			
280-21902-70	1	T	20:53		X			
280-21902-71	1	T	20:56		X			

ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: MT_024   Method: 6020A

Start Date: 11/08/2011 18:55   End Date: 11/09/2011 00:51

Lab Sample ID	D/F	Type	Time	Cu	Ni	Pb	Sb	Zn
280-21902-72	1	T	20:59		X			
280-21902-73	1	T	21:02		X			
280-21902-74	1	T	21:05		X			
280-21902-75	1	T	21:08		X			
CCV 280-95436/47	1		21:11	X	X	X	X	X
CCB 280-95436/48	1		21:14	X	X	X	X	X
CCVL 280-95436/49	1		21:17	X	X	X	X	X
MB 280-95210/1-A	1	T	21:20	X	X	X	X	X
LCS 280-95210/2-A	1	T	21:23	X	X	X	X	X
LCSD 280-95210/3-A	1	T	21:26	X	X	X	X	X
280-21902-53	1	T	21:29	X	X	X	X	X
280-21902-53 SD	5	T	21:32	X	X	X	X	X
280-21902-53 PDS	1	T	21:34	X	X	X	X	X
280-21902-53 MS	1	T	21:37	X	X	X	X	X
280-21902-53 MSD	1	T	21:40	X	X	X	X	X
280-21902-54	1	T	21:43	X	X	X	X	X
CCV 280-95436/59	1		21:46	X	X	X	X	X
CCB 280-95436/60	1		21:49	X	X	X	X	X
CCVL 280-95436/61	1		21:52	X	X	X	X	X
280-21902-55	1	T	21:55	X	X	X	X	X
280-21902-56	1	T	21:57	X	X	X	X	X
280-21902-57	1	T	22:00	X	X	X	X	X
280-21902-58	1	T	22:03	X	X	X	X	X
CCV 280-95436/66	1		22:06	X	X	X	X	X
CCB 280-95436/67	1		22:09	X	X	X	X	X
CCVL 280-95436/68	1		22:12	X	X	X	X	X
ZZZZZZ			22:15					
ZZZZZZ			22:18					
ZZZZZZ			22:21					
ZZZZZZ			22:23					
ZZZZZZ			22:26					
ZZZZZZ			22:29					
ZZZZZZ			22:32					
CCV 280-95436/76			22:35					
CCB 280-95436/77			22:38					
CCVL 280-95436/78			22:41					
ZZZZZZ			22:44					
ZZZZZZ			22:47					
ZZZZZZ			22:50					
ZZZZZZ			22:52					
ZZZZZZ			22:55					
ZZZZZZ			22:58					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: MT_024   Method: 6020A

Start Date: 11/08/2011 18:55   End Date: 11/09/2011 00:51

Lab Sample ID	D/F	Type	Time	Analytes Cu	Ni	Pb	Sb	Zn
ZZZZZZ			23:01					
CCV 280-95436/86			23:04					
CCB 280-95436/87			23:07					
CCVL 280-95436/88			23:10					
ZZZZZZ			23:13					
ZZZZZZ			23:16					
ZZZZZZ			23:18					
ZZZZZZ			23:21					
ZZZZZZ			23:24					
ZZZZZZ			23:27					
ZZZZZZ			23:30					
CCV 280-95436/96			23:33					
CCB 280-95436/97			23:36					
CCVL 280-95436/98			23:38					
ZZZZZZ			23:41					
ZZZZZZ			23:44					
ZZZZZZ			23:47					
ZZZZZZ			23:50					
ZZZZZZ			23:53					
ZZZZZZ			23:56					
ZZZZZZ			23:59					
ZZZZZZ			00:02					
ZZZZZZ			00:04					
ZZZZZZ			00:07					
CCV 280-95436/109			00:10					
CCB 280-95436/110			00:13					
CCVL 280-95436/111			00:16					
ZZZZZZ			00:19					
ZZZZZZ			00:22					
ZZZZZZ			00:25					
ZZZZZZ			00:28					
ZZZZZZ			00:31					
ZZZZZZ			00:34					
ZZZZZZ			00:37					
ZZZZZZ			00:40					
ZZZZZZ			00:42					
CCV 280-95436/121			00:45					
CCB 280-95436/122			00:48					
CCVL 280-95436/123			00:51					

Prep Types
T = Total/NA

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

ICP-MS Instrument ID: MT_024   Analysis Date: 11/07/11

Lab ID: ITUNE 280-95284/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-7	7.05	0.65	0.23	
Be-9	8.95	0.60	1.22	
Mg-24	24.00	0.65	1.64	
Co-59	59.00	0.60	0.90	
In-115	115.05	0.60	0.89	
Pb-208	208.00	0.55	1.11	
U-238	238.00	0.55	1.06	

FORM XIV - IN

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

ICP-MS Instrument ID: MT_024   Analysis Date: 11/08/11

Lab ID: ITUNE 280-95436/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-7	7.00	0.65	1.15	
Be-9	8.95	0.60	1.83	
Mg-24	24.00	0.65	1.27	
Co-59	59.00	0.60	0.77	
In-115	115.05	0.60	0.96	
Pb-208	208.00	0.55	0.49	
U-238	238.00	0.55	1.03	

FORM XIV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

ICP-MS Instrument ID: MT_024 Start Date: 11/07/2011 End Date: 11/08/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
IC 280-95284/2	19:51	100		100		100		100		100	
IC 280-95284/3	19:54	100		99		100		100		100	
ICV 280-95284/4	19:57	99		100		101		100		100	
ICVL 280-95284/5	20:00	100		100		101		102		101	
ICB 280-95284/6	20:02	100		100		102		100		101	
CRI 280-95284/7	20:05	100		99		102		101		101	
ICSA 280-95284/9	20:11	90		88		87		86		88	
ICSAB 280-95284/10	20:14	91		85		85		84		88	
CCV 280-95284/14	20:25	100		98		102		102		101	
CCB 280-95284/15	20:28	99		99		101		101		101	
CCVL 280-95284/16	20:31	99		100		101		102		99	
MB 280-92642/1-A	20:34	101		100		101		102		102	
LCS 280-92642/2-A	20:37	102		101		102		103		101	
280-21902-1	20:40	102		104		104		102		100	
280-21902-1 SD	20:43	103		105		106		105		102	
280-21902-1 PDS	20:46	102		104		103		103		102	
280-21902-1 MS	20:48	101		104		104		102		102	
280-21902-1 MSD	20:51	101		104		104		102		102	
280-21902-2	20:54	101		104		104		102		103	
280-21902-3	20:57	101		105		106		105		103	
CCV 280-95284/26	21:00	100		104		105		105		102	
CCB 280-95284/27	21:03	101		104		106		105		103	
CCVL 280-95284/28	21:06	101		104		107		106		103	
280-21902-4	21:09	101		104		104		102		100	
280-21902-5	21:12	101		105		103		101		101	
280-21902-6	21:15	101		102		105		102		101	
280-21902-7	21:17	99		104		105		103		101	
280-21902-8	21:20	100		102		103		100		101	
280-21902-9	21:23	99		103		103		101		101	
280-21902-10	21:26	99		104		106		105		102	
280-21902-11	21:29	101		107		106		105		103	
280-21902-12	21:32	100		104		106		105		102	
CCV 280-95284/38	21:35	100		104		107		107		102	
CCB 280-95284/39	21:38	99		105		107		105		102	
CCVL 280-95284/40	21:41	101		106		108		105		102	
280-21902-13	21:44	103		108		108		106		103	
280-21902-14	21:46	103		109		109		106		103	
280-21902-15	21:49	101		108		107		106		102	
280-21902-16	21:52	101		106		105		105		102	
280-21902-17	21:55	100		105		107		104		102	
280-21902-18	21:58	101		106		108		107		104	
280-21902-19	22:01	99		104		105		106		101	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

ICP-MS Instrument ID: MT_024   Start Date: 11/07/2011   End Date: 11/08/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
280-21902-20	22:04	102		107		108		106		103	
CCV 280-95284/49	22:07	101		107		108		106		103	
CCB 280-95284/50	22:10	101		106		108		106		102	
CCVL 280-95284/51	22:13	102		107		109		108		102	
MB 280-92643/1-A	22:16	102		108		108		107		103	
LCS 280-92643/2-A	22:19	102		108		108		109		104	
280-21902-21	22:21	103		110		109		106		103	
280-21902-22	22:24	103		108		108		106		103	
280-21902-23	22:27	103		108		109		107		103	
280-21902-35	22:30	103		110		108		107		105	
280-21902-36	22:33	103		110		110		107		103	
280-21902-37	22:36	103		110		110		108		105	
280-21902-38	22:39	103		111		109		108		107	
CCV 280-95284/61	22:42	101		109		109		108		103	
CCB 280-95284/62	22:45	101		108		108		108		103	
CCVL 280-95284/63	22:48	102		107		108		107		103	
280-21902-39	22:51	104		111		111		109		105	
280-21902-40	22:53	104		110		111		109		105	
280-21902-41	22:56	105		110		110		108		104	
280-21902-42	22:59	104		110		111		107		105	
280-21902-43	23:02	103		111		110		110		105	
280-21902-44	23:05	102		108		110		108		103	
280-21902-45	23:08	102		110		109		108		105	
280-21902-46	23:11	101		109		109		108		103	
CCV 280-95284/72	23:14	100		108		111		109		104	
CCB 280-95284/73	23:17	101		108		110		108		103	
CCVL 280-95284/74	23:20	102		109		110		109		103	
280-21902-52	23:23	103		110		111		109		103	
280-21902-52 SD	23:26	103		111		111		109		105	
280-21902-52 PDS	23:29	103		108		109		107		103	
280-21902-52 MS	23:31	103		110		109		109		105	
280-21902-52 MSD	23:34	103		111		110		109		105	
280-21902-47	23:37	104		111		111		110		105	
280-21902-48	23:40	103		112		112		110		105	
CCV 280-95284/82	23:43	102		109		109		108		104	
CCB 280-95284/83	23:46	102		108		110		109		104	
CCVL 280-95284/84	23:49	103		109		109		109		104	
IC 280-95284/96	00:25	100		100		100		100		100	
IC 280-95284/97	00:28	98		100		99		99		100	
CCV 280-95284/98	00:31	99		99		100		99		99	
CCB 280-95284/99	00:34	99		100		99		99		99	
CCVL 280-95284/100	00:37	99		99		101		99		99	

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15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

ICP-MS Instrument ID: MT_024 Start Date: 11/07/2011 End Date: 11/08/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
MB 280-92644/1-A	00:40	101		102		100		99		101	
LCS 280-92644/2-A	00:43	100		101		100		99		100	
280-21902-50	00:45	101		102		101		100		101	
280-21902-51	00:48	101		104		101		100		101	
280-21902-59	00:51	101		102		102		100		101	
280-21902-60	00:54	102		103		102		101		101	
280-21902-61	00:57	101		103		102		101		101	
280-21902-61 SD	01:00	101		102		102		100		101	
CCV 280-95284/109	01:03	100		101		100		101		99	
CCB 280-95284/110	01:06	99		101		100		100		99	
CCVL 280-95284/111	01:09	99		102		101		99		101	
280-21902-61 PDS	01:12	100		103		100		99		100	
280-21902-61 MS	01:15	101		103		102		100		101	
280-21902-61 MSD	01:17	100		101		100		100		101	
280-21902-63	01:20	101		102		101		101		101	
280-21902-64	01:23	100		103		101		100		101	
280-21902-65	01:26	101		104		103		101		100	
280-21902-66	01:29	101		103		100		100		101	
280-21902-67	01:32	100		102		101		99		101	
CCV 280-95284/120	01:35	100		101		100		100		99	
CCB 280-95284/121	01:38	99		101		100		100		99	
CCVL 280-95284/122	01:41	99		102		100		99		100	
280-21902-68	01:44	102		103		103		100		100	
280-21902-69	01:47	100		103		101		100		100	
280-21902-70	01:49	100		102		101		101		101	
280-21902-71	01:52	100		102		100		99		99	
280-21902-72	01:55	99		101		99		99		100	
280-21902-73	01:58	99		101		101		99		100	
280-21902-74	02:01	99		101		100		100		101	
280-21902-75	02:04	100		103		100		99		100	
CCV 280-95284/131	02:07	98		100		100		100		100	
CCB 280-95284/132	02:10	98		101		99		100		99	
CCVL 280-95284/133	02:13	98		100		100		100		100	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

ICP-MS Instrument ID: MT_024   Start Date: 11/08/2011 End Date: 11/08/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
IC 280-95436/2	19:01	100		100		100		100		100	
IC 280-95436/3	19:04	101		100		101		102		101	
ICV 280-95436/4	19:06	100		100		100		100		99	
ICVL 280-95436/5	19:09	99		101		101		102		101	
ICB 280-95436/6	19:12	100		102		102		102		102	
CRI 280-95436/7	19:15	100		102		102		102		102	
ICSA 280-95436/9	19:21	90		87		87		85		89	
ICSAB 280-95436/10	19:24	91		85		85		85		89	
CCV 280-95436/14	19:35	96		99		100		101		100	
CCB 280-95436/15	19:38	98		99		102		101		101	
CCVL 280-95436/16	19:41	100		100		101		102		102	
MB 280-92644/1-A	19:44	100		102		103		103		102	
LCS 280-92644/2-A	19:47	100		101		103		103		102	
280-21902-50	19:50	103		106		105		103		106	
280-21902-51	19:53	103		107		106		106		105	
280-21902-59	19:55	103		107		107		106		105	
280-21902-60	19:58	103		106		107		107		105	
280-21902-61	20:01	102		106		106		105		105	
280-21902-61 SD	20:04	103		107		108		106		105	
CCV 280-95436/25	20:07	101		105		106		104		103	
CCB 280-95436/26	20:10	101		104		105		106		103	
CCVL 280-95436/27	20:13	101		104		106		106		103	
280-21902-61 PDS	20:16	103		105		105		105		106	
280-21902-61 MS	20:19	104		106		107		105		104	
280-21902-61 MSD	20:22	103		105		106		106		106	
280-21902-63	20:24	103		105		105		106		105	
280-21902-64	20:27	101		104		105		103		103	
280-21902-65	20:30	103		106		108		108		105	
280-21902-66	20:33	101		106		107		106		105	
280-21902-67	20:36	102		107		107		106		104	
CCV 280-95436/36	20:39	101		105		107		106		104	
CCB 280-95436/37	20:42	102		106		108		107		105	
CCVL 280-95436/38	20:45	102		106		108		107		105	
280-21902-68	20:48	104		109		109		108		106	
280-21902-69	20:51	104		107		109		107		106	
280-21902-70	20:53	102		107		109		107		106	
280-21902-71	20:56	101		108		108		107		105	
280-21902-72	20:59	100		106		106		107		104	
280-21902-73	21:02	101		106		107		106		104	
280-21902-74	21:05	103		107		109		106		104	
280-21902-75	21:08	101		109		108		107		105	
CCV 280-95436/47	21:11	100		107		107		108		104	

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15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

ICP-MS Instrument ID: MT_024 Start Date: 11/08/2011 End Date: 11/08/2011

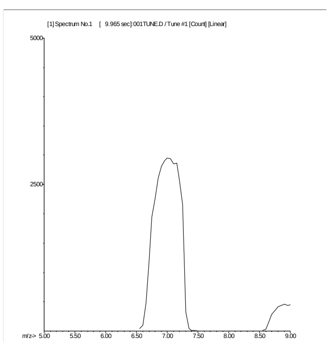
Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
CCB 280-95436/48	21:14	101		109		108		109		104	
CCVL 280-95436/49	21:17	101		106		107		106		104	
MB 280-95210/1-A	21:20	103		110		109		109		106	
LCS 280-95210/2-A	21:23	102		109		108		109		104	
LCSD 280-95210/3-A	21:26	104		108		109		109		106	
280-21902-53	21:29	102		107		109		107		105	
280-21902-53 SD	21:32	102		109		110		109		105	
280-21902-53 PDS	21:34	102		106		107		106		105	
280-21902-53 MS	21:37	101		107		106		106		105	
280-21902-53 MSD	21:40	102		107		106		106		105	
280-21902-54	21:43	101		107		108		106		105	
CCV 280-95436/59	21:46	99		107		108		108		103	
CCB 280-95436/60	21:49	100		107		108		107		105	
CCVL 280-95436/61	21:52	99		107		108		109		104	
280-21902-55	21:55	100		107		107		106		104	
280-21902-56	21:57	101		107		107		106		105	
280-21902-57	22:00	100		106		106		106		104	
280-21902-58	22:03	97		100		102		102		99	
CCV 280-95436/66	22:06	98		105		106		107		104	
CCB 280-95436/67	22:09	98		106		108		107		104	
CCVL 280-95436/68	22:12	98		107		107		108		105	

FORM XV - IN

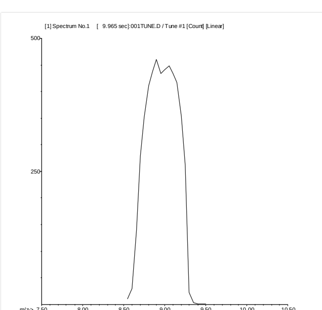
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\001TUNE.D
Date Acquired: Nov 7 2011 07:45 pm
Acq. Method: tun_isis.M
Operator: LRD
Sample Name: ITUNE-1109063
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

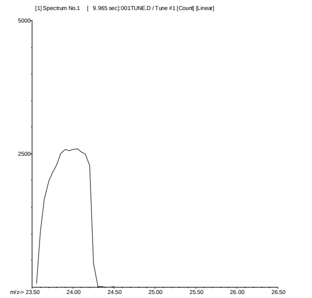
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
7 Li	31104	31203	31103	31128	31013	31071	**0.23**	5.00	
9 Be	4932	4887	4869	4918	5008	4981	**1.22**	5.00	
24 Mg	29745	29310	30181	29603	29296	30335	**1.64**	5.00	
59 Co	203037	201994	202224	202446	206279	202242	**0.90**	5.00	
115 In	2413304	2397366	2423459	2402493	2396801	2446400	**0.89**	5.00	
208 Pb	167342	167653	168772	168362	167817	164104	**1.11**	5.00	
238 U	304100	301065	303433	306081	308617	301305	**1.06**	5.00	



7 Li
Mass Calib.
Actual: 7.05
Required:6.90 - 7.10
Flag:
Peak Width
Actual: 0.65
Required:0.90
Flag:



9 Be
Mass Calib.
Actual: 8.95
Required:8.90 - 9.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



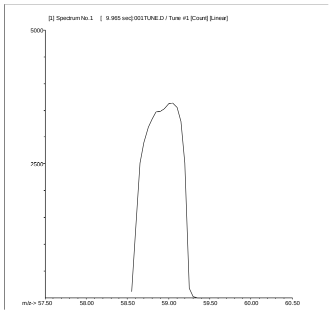
24 Mg

Mass Calib.

Actual: 24.00
Required:23.90 - 24.10
Flag:

Peak Width

Actual: 0.65
Required:0.90
Flag:



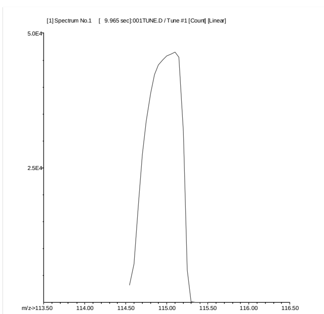
59 Co

Mass Calib.

Actual: 59.00
Required: 58.90 - 59.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



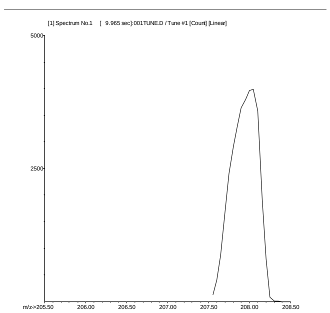
115 In

Mass Calib.

Actual: 115.05
Required: 114.90 - 115.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



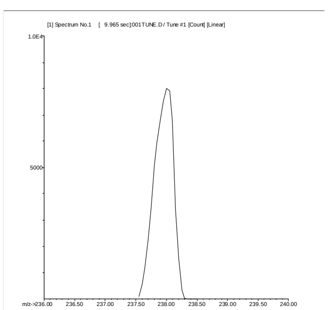
208 Pb

Mass Calib.

Actual: 208.00
Required: 207.90 - 208.10
Flag:

Peak Width

Actual: 0.55
Required: 0.90
Flag:



238 U

Mass Calib.

Actual: 238.00
Required: 237.90 - 238.10
Flag:

Peak Width

Actual: 0.55
Required: 0.90
Flag:

Tune Result: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#
Date Acquired:	Nov 7 2011 07:51 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1116509
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:49 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	3	173.21
51	V	72	1	351	124.83
52	Cr	72	1	7599	2.02
55	Mn	72	1	1540	9.57
59	Co	72	1	257	11.90
60	Ni	72	1	217	34.02
63	Cu	72	1	1200	8.46
66	Zn	72	1	397	7.57
75	As	72	1	110	20.97
78	Se	72	1	337	4.54
95	Mo	72	1	433	11.38
107	Ag	115	1	43	13.32
111	Cd	115	1	49	26.10
118	Sn	115	1	280	49.10
121	Sb	115	1	32	15.80
137	Ba	115	1	63	24.12
205	Tl	165	1	196	25.64
208	Pb	165	1	663	3.62
232	Th	165	1	200	26.46
238	U	165	1	144	17.32

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	543374	0.39
45	Sc	1	2604595	1.32
72	Ge	1	1574612	1.57
115	In	1	4299749	1.03
165	Ho	1	8578931	0.75

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\004ICAL.D\004ICAL.D#
Date Acquired:	Nov 7 2011 07:54 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1116510
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:52 pm
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	82499	0.60
51	V	72	1	2246631	2.43
52	Cr	72	1	2396595	1.50
55	Mn	72	1	2087913	1.53
59	Co	72	1	3274262	0.96
60	Ni	72	1	793691	0.74
63	Cu	72	1	1989022	1.00
66	Zn	72	1	357293	1.26
75	As	72	1	255152	0.16
78	Se	72	1	34946	1.91
95	Mo	72	1	934395	1.23
107	Ag	115	1	2795530	0.56
111	Cd	115	1	471879	0.02
118	Sn	115	1	1210454	0.79
121	Sb	115	1	1394854	1.94
137	Ba	115	1	545322	0.63
205	Tl	165	1	4877854	0.45
208	Pb	165	1	6755263	0.35
232	Th	165	1	6618988	2.64
238	U	165	1	7173405	0.13

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541570	1.01	543374	99.7	30 - 120	
45	Sc	1	2578800	1.49	2604595	99.0	30 - 120	
72	Ge	1	1580489	0.70	1574612	100.4	30 - 120	
115	In	1	4299174	1.50	4299749	100.0	30 - 120	
165	Ho	1	8585935	0.66	8578931	100.1	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Initial Calibration Verification (ICV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\005_ICV.D\005_ICV.D#
Date Acquired:	Nov 7 2011 07:57 pm
Operator:	LRD
Sample Name:	ICV-1116511
Misc Info:	
Vial Number:	2103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	ICV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.39	ppb	2.84	40	101.0	90 - 110	
51	V	72	1	39.90	ppb	1.24	40	99.8	90 - 110	
52	Cr	72	1	40.58	ppb	0.69	40	101.5	90 - 110	
55	Mn	72	1	39.40	ppb	0.73	40	98.5	90 - 110	
59	Co	72	1	39.98	ppb	0.28	40	100.0	90 - 110	
60	Ni	72	1	39.88	ppb	0.81	40	99.7	90 - 110	
63	Cu	72	1	39.17	ppb	1.68	40	97.9	90 - 110	
66	Zn	72	1	39.65	ppb	1.57	40	99.1	90 - 110	
75	As	72	1	40.57	ppb	0.72	40	101.4	90 - 110	
78	Se	72	1	40.13	ppb	0.87	40	100.3	90 - 110	
95	Mo	72	1	39.48	ppb	1.61	40	98.7	90 - 110	
107	Ag	115	1	40.43	ppb	1.55	40	101.1	90 - 110	
111	Cd	115	1	40.54	ppb	0.51	40	101.4	90 - 110	
118	Sn	115	1	38.86	ppb	0.68	40	97.2	90 - 110	
121	Sb	115	1	38.74	ppb	0.55	40	96.9	90 - 110	
137	Ba	115	1	40.32	ppb	0.48	40	100.8	90 - 110	
205	Tl	165	1	40.25	ppb	1.27	40	100.6	90 - 110	
208	Pb	165	1	40.85	ppb	1.64	40	102.1	90 - 110	
232	Th	165	1	40.67	ppb	2.01	40	101.7	90 - 110	
238	U	165	1	39.54	ppb	1.20	40	98.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	537730	1.43	543374	99.0	30 - 120	
45	Sc	1	2602560	1.42	2604595	99.9	30 - 120	
72	Ge	1	1583665	1.20	1574612	100.6	30 - 120	
115	In	1	4282465	0.76	4299749	99.6	30 - 120	
165	Ho	1	8539154	0.21	8578931	99.5	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\006WASH.D\006WASH.D#
Date Acquired:	Nov 7 2011 08:00 pm
Operator:	LRD
Sample Name:	LLICV-1116520
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.100 ppb	22.61	1.30	
51	V	72	1	4.980 ppb	3.91	6.50	
52	Cr	72	1	2.195 ppb	2.51	2.60	
55	Mn	72	1	1.186 ppb	1.20	1.30	
59	Co	72	1	1.097 ppb	1.20	1.30	
60	Ni	72	1	2.306 ppb	2.36	2.60	
63	Cu	72	1	2.243 ppb	0.36	2.60	
66	Zn	72	1	10.490 ppb	2.32	13.00	
75	As	72	1	5.194 ppb	1.22	6.50	
78	Se	72	1	5.285 ppb	0.42	6.50	
95	Mo	72	1	2.090 ppb	3.04	2.60	
107	Ag	115	1	5.032 ppb	1.95	6.50	
111	Cd	115	1	1.108 ppb	3.75	1.30	
118	Sn	115	1	10.040 ppb	2.36	13.00	
121	Sb	115	1	2.204 ppb	3.77	2.60	
137	Ba	115	1	1.097 ppb	1.75	1.30	
205	Tl	165	1	1.160 ppb	0.32	1.30	
208	Pb	165	1	1.113 ppb	0.44	1.30	
232	Th	165	1	2.136 ppb	3.31	2.60	
238	U	165	1	1.101 ppb	0.63	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541140	0.86	543374	99.6	30 - 120	
45	Sc	1	2598344	0.54	2604595	99.8	30 - 120	
72	Ge	1	1589971	0.89	1574612	101.0	30 - 120	
115	In	1	4369490	1.21	4299749	101.6	30 - 120	
165	Ho	1	8633390	0.35	8578931	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\007_ICB.D\007_ICB.D#
Date Acquired: Nov 7 2011 08:02 pm
Operator: LRD
Sample Name: ICB-1116509
Misc Info:
Vial Number: 2104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: ICB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.00	ppb	172.80	1.00	
51	V	72	1	0.01	ppb	130.06	1.00	
52	Cr	72	1	-0.03	ppb	45.39	1.00	
55	Mn	72	1	0.00	ppb	280.54	1.00	
59	Co	72	1	0.00	ppb	154.81	1.00	
60	Ni	72	1	0.01	ppb	30.55	1.00	
63	Cu	72	1	-0.01	ppb	132.53	1.00	
66	Zn	72	1	0.00	ppb	122.36	1.00	
75	As	72	1	0.00	ppb	154.91	1.00	
78	Se	72	1	0.20	ppb	51.26	1.00	
95	Mo	72	1	0.00	ppb	192.59	1.00	
107	Ag	115	1	0.00	ppb	18.76	1.00	
111	Cd	115	1	0.00	ppb	64.14	1.00	
118	Sn	115	1	0.03	ppb	13.28	1.00	
121	Sb	115	1	0.05	ppb	4.79	1.00	
137	Ba	115	1	0.00	ppb	280.46	1.00	
205	Tl	165	1	0.02	ppb	7.47	1.00	
208	Pb	165	1	0.00	ppb	62.08	1.00	
232	Th	165	1	0.02	ppb	14.03	1.00	
238	U	165	1	0.00	ppb	42.46	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	542924	0.77	543374	99.9	30 - 120	
45	Sc	1	2606242	1.51	2604595	100.1	30 - 120	
72	Ge	1	1607326	0.26	1574612	102.1	30 - 120	
115	In	1	4319796	0.27	4299749	100.5	30 - 120	
165	Ho	1	8625863	1.33	8578931	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

RL STD QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\008RLST.D\008RLST.D#
Date Acquired:	Nov 7 2011 08:05 pm
Operator:	LRD
Sample Name:	CRI-1116513
Misc Info:	
Vial Number:	2105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	RLSTD
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1.05	ppb	10.45	1	105.3	80 - 120	
51	V	72	1	0.97	ppb	5.88	1	96.6	80 - 120	
52	Cr	72	1	0.94	ppb	4.24	1	94.4	80 - 120	
55	Mn	72	1	0.97	ppb	1.75	1	96.9	80 - 120	
59	Co	72	1	0.97	ppb	5.70	1	97.1	80 - 120	
60	Ni	72	1	1.01	ppb	1.61	1	100.8	80 - 120	
63	Cu	72	1	1.00	ppb	1.42	1	99.6	80 - 120	
66	Zn	72	1	9.92	ppb	1.00	10	99.2	80 - 120	
75	As	72	1	1.00	ppb	5.90	1	100.3	80 - 120	
78	Se	72	1	1.00	ppb	36.68	1	99.7	80 - 120	
95	Mo	72	1	0.97	ppb	3.23	1	97.1	80 - 120	
107	Ag	115	1	1.00	ppb	3.09	1	100.0	80 - 120	
111	Cd	115	1	0.97	ppb	3.13	1	97.3	80 - 120	
118	Sn	115	1	9.74	ppb	1.54	10	97.4	80 - 120	
121	Sb	115	1	1.00	ppb	1.45	1	100.1	80 - 120	
137	Ba	115	1	1.03	ppb	2.49	1	102.6	80 - 120	
205	Tl	165	1	1.01	ppb	1.65	1	100.7	80 - 120	
208	Pb	165	1	0.98	ppb	1.23	1	97.8	80 - 120	
232	Th	165	1	0.95	ppb	1.88	1	95.2	80 - 120	
238	U	165	1	0.99	ppb	0.87	1	99.2	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	544661	0.90	543374	100.2	30 - 120	
45	Sc	1	2579567	1.68	2604595	99.0	30 - 120	
72	Ge	1	1600678	2.43	1574612	101.7	30 - 120	
115	In	1	4330585	0.63	4299749	100.7	30 - 120	
165	Ho	1	8657632	0.84	8578931	100.9	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

AFCEE RL QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\009AFCE.D\009AFCE.D#
Date Acquired:	Nov 7 2011 08:08 pm
Operator:	LRD
Sample Name:	AFCEE RL-1116514
Misc Info:	
Vial Number:	2106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	AFCEERL
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	0.20	ppb	21.69	0	93.9	80 - 120	
51	V	72	1	0.23	ppb	5.90	0	116.7	80 - 120	
52	Cr	72	1	0.18	ppb	5.15	0	93.5	80 - 120	
55	Mn	72	1	0.18	ppb	10.06	0	91.3	80 - 120	
59	Co	72	1	0.19	ppb	3.69	0	98.1	80 - 120	
60	Ni	72	1	0.20	ppb	9.93	0	100.3	80 - 120	
63	Cu	72	1	0.18	ppb	6.80	0	90.0	80 - 120	
66	Zn	72	1	1.97	ppb	1.51	2	99.2	80 - 120	
75	As	72	1	0.19	ppb	10.13	0	94.8	80 - 120	
78	Se	72	1	0.22	ppb	134.19	0	107.9	80 - 120	
95	Mo	72	1	0.20	ppb	6.34	0	101.6	80 - 120	
107	Ag	115	1	0.20	ppb	4.44	0	98.0	80 - 120	
111	Cd	115	1	0.20	ppb	4.77	0	104.3	80 - 120	
118	Sn	115	1	2.02	ppb	2.59	2	103.7	80 - 120	
121	Sb	115	1	0.22	ppb	1.06	0	109.1	80 - 120	
137	Ba	115	1	0.20	ppb	3.11	0	98.0	80 - 120	
205	Tl	165	1	0.21	ppb	1.75	0	103.7	80 - 120	
208	Pb	165	1	0.20	ppb	4.49	0	101.6	80 - 120	
232	Th	165	1	0.20	ppb	2.52	0	106.2	80 - 120	
238	U	165	1	0.20	ppb	1.84	0	98.7	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	553380	1.17	543374	101.8	30 - 120	
45	Sc	1	2600039	1.01	2604595	99.8	30 - 120	
72	Ge	1	1607046	1.39	1574612	102.1	30 - 120	
115	In	1	4324386	0.73	4299749	100.6	30 - 120	
165	Ho	1	8649379	0.08	8578931	100.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\010ICSA.D\010ICSA.D#
Date Acquired: Nov 7 2011 08:11 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: ICSA-1116516
Misc Info:
Vial Number: 2108
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: ICSA
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit ppb	Flag
9	Be	6	1	0.02	ppb	59.13	1.00	
51	V	72	1	0.10	ppb	55.99	1.00	
52	Cr	72	1	1.13	ppb	2.03	1.00	
55	Mn	72	1	0.45	ppb	6.64	1.00	
59	Co	72	1	0.05	ppb	6.42	1.00	
60	Ni	72	1	0.71	ppb	4.13	1.00	
63	Cu	72	1	0.38	ppb	2.60	1.00	
66	Zn	72	1	2.40	ppb	3.22	10.00	
75	As	72	1	0.51	ppb	0.49	1.00	
78	Se	72	1	0.38	ppb	20.02	1.00	
95	Mo	72	1	2017.00	ppb	1.39	2000.00	
107	Ag	115	1	0.06	ppb	17.62	1.00	
111	Cd	115	1	0.54	ppb	13.64	1.00	
118	Sn	115	1	0.24	ppb	4.13	10.00	
121	Sb	115	1	0.29	ppb	6.45	1.00	
137	Ba	115	1	0.19	ppb	2.27	1.00	
205	Tl	165	1	0.05	ppb	35.15	1.00	
208	Pb	165	1	0.14	ppb	0.95	1.00	
232	Th	165	1	0.03	ppb	7.15	1.00	
238	U	165	1	0.00	ppb	59.08	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489578	0.82	543374	90.1	30 - 120	
45	Sc	1	2299894	1.60	2604595	88.3	30 - 120	
72	Ge	1	1362005	0.70	1574612	86.5	30 - 120	
115	In	1	3687037	0.59	4299749	85.8	30 - 120	
165	Ho	1	7539486	0.86	8578931	87.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\011ICSB.D\011ICSB.D#
Date Acquired: Nov 7 2011 08:14 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: ICSAB-1116517
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9	Be	6	1	99.89	0.83	100	99.9	80 - 120	
51	V	72	1	102.30	2.27	100	102.3	80 - 120	
52	Cr	72	1	101.00	2.14	100	101.0	80 - 120	
55	Mn	72	1	97.99	2.06	100	98.0	80 - 120	
59	Co	72	1	97.74	2.13	100	97.7	80 - 120	
60	Ni	72	1	93.98	3.10	100	94.0	80 - 120	
63	Cu	72	1	91.81	1.78	100	91.8	80 - 120	
66	Zn	72	1	99.40	1.69	100	99.4	80 - 120	
75	As	72	1	104.80	1.59	100	104.8	80 - 120	
78	Se	72	1	109.70	2.05	100	109.7	80 - 120	
95	Mo	72	1	2134.00	1.47	2100	101.6	80 - 120	
107	Ag	115	1	91.10	1.72	100	91.1	80 - 120	
111	Cd	115	1	97.69	0.17	100	97.7	80 - 120	
118	Sn	115	1	101.20	1.92	100	101.2	80 - 120	
121	Sb	115	1	106.50	1.45	100	106.5	80 - 120	
137	Ba	115	1	104.50	0.63	100	104.5	80 - 120	
205	Tl	165	1	94.65	1.52	100	94.7	80 - 120	
208	Pb	165	1	94.49	1.03	100	94.5	80 - 120	
232	Th	165	1	101.70	1.14	100	101.7	80 - 120	
238	U	165	1	99.81	1.56	100	99.8	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492273	0.19	543374	90.6	30 - 120	
45	Sc	1	2219025	1.44	2604595	85.2	30 - 120	
72	Ge	1	1339509	2.05	1574612	85.1	30 - 120	
115	In	1	3610669	0.63	4299749	84.0	30 - 120	
165	Ho	1	7540048	0.63	8578931	87.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\012WASH.D\012WASH.D#
Date Acquired:	Nov 7 2011 08:17 pm
Operator:	LRD
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.008 ppb	261.81	1.30	
51	V	72	1	0.011 ppb	255.89	6.50	
52	Cr	72	1	-0.001 ppb	2479.20	2.60	
55	Mn	72	1	0.024 ppb	44.52	1.30	
59	Co	72	1	0.007 ppb	28.28	1.30	
60	Ni	72	1	0.012 ppb	86.19	2.60	
63	Cu	72	1	0.001 ppb	665.64	2.60	
66	Zn	72	1	-0.003 ppb	292.08	13.00	
75	As	72	1	0.006 ppb	72.60	6.50	
78	Se	72	1	-0.017 ppb	381.71	6.50	
95	Mo	72	1	0.433 ppb	7.08	2.60	
107	Ag	115	1	0.010 ppb	15.96	6.50	
111	Cd	115	1	0.002 ppb	470.94	1.30	
118	Sn	115	1	0.030 ppb	9.29	13.00	
121	Sb	115	1	0.015 ppb	12.16	2.60	
137	Ba	115	1	0.008 ppb	17.63	1.30	
205	Tl	165	1	0.015 ppb	4.18	1.30	
208	Pb	165	1	0.009 ppb	8.93	1.30	
232	Th	165	1	0.024 ppb	15.61	2.60	
238	U	165	1	0.014 ppb	11.26	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	550878	0.48	543374	101.4	30 - 120	
45	Sc	1	2576522	1.63	2604595	98.9	30 - 120	
72	Ge	1	1586384	1.48	1574612	100.7	30 - 120	
115	In	1	4355736	1.59	4299749	101.3	30 - 120	
165	Ho	1	8660565	0.73	8578931	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Linear Dynamic Range Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\013_LR.D\013_LR.D#
Date Acquired:	Nov 7 2011 08:20 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	LRA-1116518
Misc Info:	
Vial Number:	2110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	LR
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1025.00 ppb	1.37	1000	102.5	90 - 110	
51	V	72	1	925.90 ppb	1.56	1000	92.6	90 - 110	
52	Cr	72	1	943.70 ppb	1.41	1000	94.4	90 - 110	
55	Mn	72	1	937.60 ppb	1.43	1000	93.8	90 - 110	
59	Co	72	1	959.20 ppb	1.94	1000	95.9	90 - 110	
60	Ni	72	1	958.70 ppb	1.78	1000	95.9	90 - 110	
63	Cu	72	1	929.00 ppb	1.71	1000	92.9	90 - 110	
66	Zn	72	1	982.80 ppb	1.78	1000	98.3	90 - 110	
75	As	72	1	998.20 ppb	1.31	1000	99.8	90 - 110	
78	Se	72	1	986.40 ppb	2.18	1000	98.6	90 - 110	
95	Mo	72	1	966.90 ppb	1.06	1000	96.7	90 - 110	
107	Ag	115	1	984.00 ppb	1.80	1000	98.4	90 - 110	
111	Cd	115	1	991.20 ppb	2.23	1000	99.1	90 - 110	
118	Sn	115	1	976.50 ppb	2.08	1000	97.7	90 - 110	
121	Sb	115	1	982.20 ppb	1.00	1000	98.2	90 - 110	
137	Ba	115	1	1014.00 ppb	1.55	1000	101.4	90 - 110	
205	Tl	165	1	977.30 ppb	0.91	1000	97.7	90 - 110	
208	Pb	165	1	967.90 ppb	0.90	1000	96.8	90 - 110	
232	Th	165	1	1001.00 ppb	1.42	1000	100.1	90 - 110	
238	U	165	1	985.90 ppb	1.53	1000	98.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532380	0.37	543374	98.0	30 - 120	
45	Sc	1	2511636	0.46	2604595	96.4	30 - 120	
72	Ge	1	1576285	0.71	1574612	100.1	30 - 120	
115	In	1	4231811	1.56	4299749	98.4	30 - 120	
165	Ho	1	8623650	1.02	8578931	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\014WASH.D\014WASH.D#
Date Acquired: Nov 7 2011 08:23 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.070 ppb	17.38	1.30	
51	V	72	1	0.041 ppb	52.63	6.50	
52	Cr	72	1	0.030 ppb	46.11	2.60	
55	Mn	72	1	0.054 ppb	12.87	1.30	
59	Co	72	1	0.057 ppb	15.04	1.30	
60	Ni	72	1	0.061 ppb	19.94	2.60	
63	Cu	72	1	0.050 ppb	46.50	2.60	
66	Zn	72	1	0.049 ppb	51.33	13.00	
75	As	72	1	0.057 ppb	16.16	6.50	
78	Se	72	1	0.417 ppb	19.69	6.50	
95	Mo	72	1	0.226 ppb	1.59	2.60	
107	Ag	115	1	0.099 ppb	13.70	6.50	
111	Cd	115	1	0.056 ppb	7.93	1.30	
118	Sn	115	1	0.403 ppb	10.08	13.00	
121	Sb	115	1	0.164 ppb	2.34	2.60	
137	Ba	115	1	0.064 ppb	26.39	1.30	
205	Tl	165	1	0.137 ppb	7.78	1.30	
208	Pb	165	1	0.064 ppb	20.12	1.30	
232	Th	165	1	0.150 ppb	7.17	2.60	
238	U	165	1	0.111 ppb	10.65	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	533927	0.40	543374	98.3	30 - 120	
45	Sc	1	2540177	0.49	2604595	97.5	30 - 120	
72	Ge	1	1573315	0.71	1574612	99.9	30 - 120	
115	In	1	4323443	1.75	4299749	100.6	30 - 120	
165	Ho	1	8628029	0.17	8578931	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\015_CCV.D\015_CCV.D#
Date Acquired: Nov 7 2011 08:25 pm
Operator: LRD
Sample Name: CCV-1116521
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.08	ppb	1.86	50	100.2	90 - 110	
51	V	72	1	49.22	ppb	0.95	50	98.4	90 - 110	
52	Cr	72	1	48.78	ppb	1.14	50	97.6	90 - 110	
55	Mn	72	1	49.24	ppb	1.11	50	98.5	90 - 110	
59	Co	72	1	48.92	ppb	0.85	50	97.8	90 - 110	
60	Ni	72	1	47.98	ppb	0.71	50	96.0	90 - 110	
63	Cu	72	1	47.79	ppb	1.25	50	95.6	90 - 110	
66	Zn	72	1	48.97	ppb	0.51	50	97.9	90 - 110	
75	As	72	1	48.86	ppb	0.85	50	97.7	90 - 110	
78	Se	72	1	50.78	ppb	1.09	50	101.6	90 - 110	
95	Mo	72	1	48.71	ppb	0.56	50	97.4	90 - 110	
107	Ag	115	1	49.19	ppb	1.59	50	98.4	90 - 110	
111	Cd	115	1	48.72	ppb	0.14	50	97.4	90 - 110	
118	Sn	115	1	48.38	ppb	0.83	50	96.8	90 - 110	
121	Sb	115	1	48.38	ppb	0.31	50	96.8	90 - 110	
137	Ba	115	1	49.39	ppb	0.56	50	98.8	90 - 110	
205	Tl	165	1	50.27	ppb	0.98	50	100.5	90 - 110	
208	Pb	165	1	49.46	ppb	1.52	50	98.9	90 - 110	
232	Th	165	1	50.32	ppb	1.52	50	100.6	90 - 110	
238	U	165	1	50.17	ppb	0.75	50	100.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541520	1.09	543374	99.7	30 - 120	
45	Sc	1	2561078	0.71	2604595	98.3	30 - 120	
72	Ge	1	1606066	1.35	1574612	102.0	30 - 120	
115	In	1	4392206	0.59	4299749	102.2	30 - 120	
165	Ho	1	8648094	0.84	8578931	100.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\016_CCB.D\016_CCB.D#
Date Acquired:	Nov 7 2011 08:28 pm
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.020	ppb	59.31	1.00	
51	V	72	1	0.001	ppb	303.13	1.00	
52	Cr	72	1	-0.029	ppb	25.52	1.00	
55	Mn	72	1	0.008	ppb	41.69	1.00	
59	Co	72	1	0.012	ppb	10.73	1.00	
60	Ni	72	1	0.011	ppb	20.27	1.00	
63	Cu	72	1	0.007	ppb	60.48	1.00	
66	Zn	72	1	-0.002	ppb	486.75	1.00	
75	As	72	1	0.007	ppb	37.26	1.00	
78	Se	72	1	0.543	ppb	42.54	1.00	
95	Mo	72	1	0.048	ppb	13.34	1.00	
107	Ag	115	1	0.017	ppb	28.00	1.00	
111	Cd	115	1	0.010	ppb	52.78	1.00	
118	Sn	115	1	0.092	ppb	9.62	1.00	
121	Sb	115	1	0.033	ppb	11.45	1.00	
137	Ba	115	1	0.014	ppb	37.55	1.00	
205	Tl	165	1	0.036	ppb	3.24	1.00	
208	Pb	165	1	0.014	ppb	16.16	1.00	
232	Th	165	1	0.051	ppb	5.98	1.00	
238	U	165	1	0.019	ppb	2.70	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	538421	0.63	543374	99.1	30 - 120	
45	Sc	1	2585116	0.22	2604595	99.3	30 - 120	
72	Ge	1	1584491	1.26	1574612	100.6	30 - 120	
115	In	1	4337737	0.21	4299749	100.9	30 - 120	
165	Ho	1	8635380	0.37	8578931	100.7	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\017WASH.D\017WASH.D#
Date Acquired: Nov 7 2011 08:31 pm
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.218 ppb	8.97	1.30	
51	V	72	1	4.949 ppb	2.41	6.50	
52	Cr	72	1	2.194 ppb	2.66	2.60	
55	Mn	72	1	1.210 ppb	2.91	1.30	
59	Co	72	1	1.101 ppb	3.31	1.30	
60	Ni	72	1	2.291 ppb	3.37	2.60	
63	Cu	72	1	2.190 ppb	2.98	2.60	
66	Zn	72	1	10.500 ppb	1.92	13.00	
75	As	72	1	5.115 ppb	3.32	6.50	
78	Se	72	1	5.525 ppb	4.84	6.50	
95	Mo	72	1	2.129 ppb	3.79	2.60	
107	Ag	115	1	4.965 ppb	1.70	6.50	
111	Cd	115	1	1.075 ppb	0.97	1.30	
118	Sn	115	1	9.911 ppb	2.13	13.00	
121	Sb	115	1	2.055 ppb	1.56	2.60	
137	Ba	115	1	1.105 ppb	0.69	1.30	
205	Tl	165	1	1.136 ppb	0.93	1.30	
208	Pb	165	1	1.132 ppb	0.74	1.30	
232	Th	165	1	2.133 ppb	1.50	2.60	
238	U	165	1	1.094 ppb	1.42	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	537264	0.62	543374	98.9	30 - 120	
45	Sc	1	2590942	1.48	2604595	99.5	30 - 120	
72	Ge	1	1596365	1.03	1574612	101.4	30 - 120	
115	In	1	4390961	0.73	4299749	102.1	30 - 120	
165	Ho	1	8506429	0.45	8578931	99.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\018_BLK.D\018_BLK.D#
Date Acquired:	Nov 7 2011 08:34 pm
Operator:	LRD
Sample Name:	mb 280-92642/1-a
Misc Info:	BLANK 92642 Soil DoD4/6020A
Vial Number:	2201
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.000 ppb	24391.00	2.00	
51	V	72	1	0.015 ppb	62.51	2.00	
52	Cr	72	1	0.089 ppb	24.24	2.00	
55	Mn	72	1	0.085 ppb	10.53	2.00	
59	Co	72	1	0.008 ppb	18.15	2.00	
60	Ni	72	1	0.085 ppb	12.96	2.00	
63	Cu	72	1	0.151 ppb	3.20	2.00	
66	Zn	72	1	0.971 ppb	1.41	2.00	
75	As	72	1	0.017 ppb	34.05	2.00	
78	Se	72	1	0.251 ppb	141.96	2.00	
95	Mo	72	1	0.027 ppb	17.90	2.00	
107	Ag	115	1	0.012 ppb	13.30	2.00	
111	Cd	115	1	0.010 ppb	2.80	2.00	
118	Sn	115	1	0.168 ppb	0.82	2.00	
121	Sb	115	1	0.023 ppb	2.89	2.00	
137	Ba	115	1	0.153 ppb	4.99	2.00	
205	Tl	165	1	0.020 ppb	5.08	2.00	
208	Pb	165	1	0.037 ppb	4.94	2.00	
232	Th	165	1	0.026 ppb	10.54	2.00	
238	U	165	1	0.013 ppb	10.92	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	550339	1.17	543374	101.3	30 - 120	
45	Sc	1	2601526	2.45	2604595	99.9	30 - 120	
72	Ge	1	1595492	1.72	1574612	101.3	30 - 120	
115	In	1	4369020	0.79	4299749	101.6	30 - 120	
165	Ho	1	8784002	0.87	8578931	102.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\019_LCS.D\019_LCS.D#
Date Acquired:	Nov 7 2011 08:37 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-92642/2-a
Misc Info:	LCS
Vial Number:	2202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.19	1.32	40	100.5	80 - 120	
51	V	72	1	40.73	2.80	40	101.8	80 - 120	
52	Cr	72	1	41.45	0.94	40	103.6	80 - 120	
55	Mn	72	1	39.68	0.73	40	99.2	80 - 120	
59	Co	72	1	40.74	0.69	40	101.9	80 - 120	
60	Ni	72	1	40.02	0.83	40	100.1	80 - 120	
63	Cu	72	1	40.09	0.47	40	100.2	80 - 120	
66	Zn	72	1	40.13	0.23	40	100.3	80 - 120	
75	As	72	1	39.76	0.14	40	99.4	80 - 120	
78	Se	72	1	40.51	1.11	40	101.3	80 - 120	
95	Mo	72	1	39.53	0.35	40	98.8	80 - 120	
107	Ag	115	1	39.99	1.82	40	100.0	80 - 120	
111	Cd	115	1	39.46	0.67	40	98.7	80 - 120	
118	Sn	115	1	38.82	0.60	40	97.1	80 - 120	
121	Sb	115	1	38.43	0.38	40	96.1	80 - 120	
137	Ba	115	1	40.81	0.48	40	102.0	80 - 120	
205	Tl	165	1	41.32	0.91	40	103.3	80 - 120	
208	Pb	165	1	40.70	1.24	40	101.8	80 - 120	
232	Th	165	1	39.87	2.44	40	99.7	80 - 120	
238	U	165	1	41.48	1.51	40	103.7	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552749	0.58	543374	101.7	30 - 120	
45	Sc	1	2640061	0.15	2604595	101.4	30 - 120	
72	Ge	1	1604497	0.44	1574612	101.9	30 - 120	
115	In	1	4433653	1.27	4299749	103.1	30 - 120	
165	Ho	1	8693140	1.01	8578931	101.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\020AREF.D\020AREF.D#
Date Acquired:	Nov 7 2011 08:40 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-1-a
Misc Info:	
Vial Number:	2203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.72	0.72	ppb	20.89	3600	
51	V	72	1	33.03	33.03	ppb	0.57	3600	
52	Cr	72	1	18.48	18.48	ppb	0.74	3600	
55	Mn	72	1	116.30	116.30	ppb	1.49	18000	
59	Co	72	1	5.12	5.12	ppb	1.96	3600	
60	Ni	72	1	10.74	10.74	ppb	2.16	3600	
63	Cu	72	1	7.57	7.57	ppb	1.31	3600	
66	Zn	72	1	49.89	49.89	ppb	1.01	3600	
75	As	72	1	10.04	10.04	ppb	1.70	3600	
78	Se	72	1	1.31	1.31	ppb	13.26	3600	
95	Mo	72	1	1.21	1.21	ppb	1.18	3600	
107	Ag	115	1	0.08	0.08	ppb	6.84	3600	
111	Cd	115	1	0.30	0.30	ppb	1.63	3600	
118	Sn	115	1	0.66	0.66	ppb	8.64	3600	
121	Sb	115	1	0.04	0.04	ppb	7.88	3600	
137	Ba	115	1	16.32	16.32	ppb	0.81	3600	
205	Tl	165	1	0.26	0.26	ppb	8.08	3600	
208	Pb	165	1	15.97	15.97	ppb	1.05	3600	
232	Th	165	1	4.68	4.68	ppb	0.44	1000	
238	U	165	1	2.01	2.01	ppb	1.11	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	556903	0.95	543374	102.5	30 - 120	
45	Sc	1	2706582	0.75	2604595	103.9	30 - 120	
72	Ge	1	1639810	2.19	1574612	104.1	30 - 120	
115	In	1	4370598	0.25	4299749	101.6	30 - 120	
165	Ho	1	8616627	1.27	8578931	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\021SDIL.D\021SDIL.D#
Date Acquired: Nov 7 2011 08:43 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-1-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110711.B\020AREF.D\020AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.16	ppb	31.93	0.14	111.1	90 - 110	
51	V	72	1	6.63	ppb	1.11	6.61	100.4	90 - 110	
52	Cr	72	1	3.76	ppb	2.45	3.70	101.6	90 - 110	
55	Mn	72	1	23.14	ppb	2.74	23.26	99.5	90 - 110	
59	Co	72	1	1.03	ppb	2.65	1.02	100.9	90 - 110	
60	Ni	72	1	2.23	ppb	1.05	2.15	103.7	90 - 110	
63	Cu	72	1	1.56	ppb	2.41	1.51	103.0	90 - 110	
66	Zn	72	1	10.13	ppb	1.16	9.98	101.5	90 - 110	
75	As	72	1	2.07	ppb	1.49	2.01	103.0	90 - 110	
78	Se	72	1	0.37	ppb	29.82	0.26	142.8	90 - 110	
95	Mo	72	1	0.25	ppb	4.84	0.24	103.4	90 - 110	
107	Ag	115	1	0.02	ppb	10.24	0.02	108.7	90 - 110	
111	Cd	115	1	0.05	ppb	17.95	0.06	86.4	90 - 110	
118	Sn	115	1	0.22	ppb	5.90	0.13	163.9	90 - 110	
121	Sb	115	1	0.01	ppb	7.84	0.01	185.3	90 - 110	
137	Ba	115	1	3.26	ppb	2.99	3.26	100.0	90 - 110	
205	Tl	165	1	0.05	ppb	6.24	0.05	95.5	90 - 110	
208	Pb	165	1	3.25	ppb	2.11	3.19	101.8	90 - 110	
232	Th	165	1	0.94	ppb	2.29	0.94	100.4	90 - 110	
238	U	165	1	0.41	ppb	2.83	0.40	101.9	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	557714	0.21	543374	102.6	30 - 120	
45	Sc	1	2723849	1.44	2604595	104.6	30 - 120	
72	Ge	1	1670511	0.63	1574612	106.1	30 - 120	
115	In	1	4534414	0.87	4299749	105.5	30 - 120	
165	Ho	1	8748099	0.91	8578931	102.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\022PDS.D\022PDS.D#
Date Acquired:	Nov 7 2011 08:46 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-1-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	2205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	196.40	0.72	ppb	1.46	200	97.8	75 - 125	
51 V	72	1	218.60	33.03	ppb	2.07	200	93.8	75 - 125	
52 Cr	72	1	205.70	18.48	ppb	1.14	200	94.2	75 - 125	
55 Mn	72	1	294.40	116.30	ppb	2.74	200	93.1	75 - 125	
59 Co	72	1	192.40	5.12	ppb	1.74	200	93.8	75 - 125	
60 Ni	72	1	202.00	10.74	ppb	2.55	200	95.9	75 - 125	
63 Cu	72	1	190.70	7.57	ppb	2.20	200	91.9	75 - 125	
66 Zn	72	1	233.70	49.89	ppb	1.65	200	93.5	75 - 125	
75 As	72	1	202.40	10.04	ppb	1.27	200	96.4	75 - 125	
78 Se	72	1	195.10	1.30	ppb	1.42	200	96.9	75 - 125	
95 Mo	72	1	196.40	1.21	ppb	2.51	200	97.6	75 - 125	
107 Ag	115	1	46.97	0.08	ppb	1.04	50	93.8	75 - 125	
111 Cd	115	1	190.00	0.30	ppb	1.45	200	94.9	75 - 125	
118 Sn	115	1	190.70	0.66	ppb	2.87	200	95.0	75 - 125	
121 Sb	115	1	190.00	0.04	ppb	1.83	200	95.0	75 - 125	
137 Ba	115	1	212.60	16.32	ppb	2.02	200	98.3	75 - 125	
205 Tl	165	1	185.10	0.26	ppb	0.38	200	92.4	75 - 125	
208 Pb	165	1	198.60	15.97	ppb	0.47	200	92.0	75 - 125	
232 Th	165	1	4.30	4.68	ppb	1.40	200	2.1	75 - 125	
238 U	165	1	183.40	2.01	ppb	2.23	200	90.8	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	551951	0.86	543374	101.6	30 - 120	
45 Sc	1	2719450	0.74	2604595	104.4	30 - 120	
72 Ge	1	1629015	0.97	1574612	103.5	30 - 120	
115 In	1	4439291	1.64	4299749	103.2	30 - 120	
165 Ho	1	8787058	1.10	8578931	102.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\023_MS.D\023_MS.D#
Date Acquired:	Nov 7 2011 08:48 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-1-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	2206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	43.45	0.72	ppb	2.75	40	106.7	50 - 150	
51 V	72	1	83.57	33.03	ppb	2.20	40	114.4	50 - 150	
52 Cr	72	1	63.02	18.48	ppb	1.72	40	107.8	50 - 150	
55 Mn	72	1	161.20	116.30	ppb	1.05	40	103.1	50 - 150	
59 Co	72	1	55.55	5.12	ppb	0.36	40	123.1	50 - 150	
60 Ni	72	1	59.28	10.74	ppb	0.87	40	116.8	50 - 150	
63 Cu	72	1	51.41	7.57	ppb	1.39	40	108.1	50 - 150	
66 Zn	72	1	95.53	49.89	ppb	0.90	40	106.3	50 - 150	
75 As	72	1	70.04	10.04	ppb	1.00	40	140.0	50 - 150	
78 Se	72	1	88.07	1.30	ppb	1.61	40	213.2	50 - 150	
95 Mo	72	1	38.43	1.21	ppb	1.29	40	93.3	50 - 150	
107 Ag	115	1	18.42	0.08	ppb	0.67	40	46.0	50 - 150	
111 Cd	115	1	42.63	0.30	ppb	0.40	40	105.8	50 - 150	
118 Sn	115	1	35.36	0.66	ppb	1.48	40	87.0	50 - 150	
121 Sb	115	1	6.02	0.04	ppb	1.83	40	15.0	50 - 150	
137 Ba	115	1	99.66	16.32	ppb	1.38	40	177.0	50 - 150	
205 Tl	165	1	82.97	0.26	ppb	0.70	40	206.1	50 - 150	
208 Pb	165	1	64.68	15.97	ppb	0.65	40	115.6	50 - 150	
232 Th	165	1	65.00	4.68	ppb	2.50	40	145.5	50 - 150	
238 U	165	1	80.64	2.01	ppb	1.58	40	192.0	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	547605	0.42	543374	100.8	30 - 120	
45 Sc	1	2708638	0.63	2604595	104.0	30 - 120	
72 Ge	1	1635352	0.24	1574612	103.9	30 - 120	
115 In	1	4395336	0.46	4299749	102.2	30 - 120	
165 Ho	1	8763915	0.31	8578931	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\024_MSD.D\024_MSD.D#
Date Acquired: Nov 7 2011 08:51 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-1-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 2207
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110711.B\023_MS.D\023_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	41.76	ppb	2.50	43.45	3.97	20	
51	V	72	1	74.85	ppb	0.82	83.57	11.01	20	
52	Cr	72	1	59.80	ppb	0.28	63.02	5.24	20	
55	Mn	72	1	156.70	ppb	0.61	161.20	2.83	20	
59	Co	72	1	45.71	ppb	1.36	55.55	19.44	20	
60	Ni	72	1	49.68	ppb	0.24	59.28	17.62	20	
63	Cu	72	1	45.30	ppb	0.84	51.41	12.64	20	
66	Zn	72	1	88.35	ppb	1.05	95.53	7.81	20	
75	As	72	1	49.40	ppb	1.13	70.04	34.56	20	
78	Se	72	1	41.04	ppb	3.57	88.07	72.85	20	
95	Mo	72	1	38.09	ppb	0.86	38.43	0.89	20	
107	Ag	115	1	17.17	ppb	1.02	18.42	7.02	20	
111	Cd	115	1	40.72	ppb	1.46	42.63	4.58	20	
118	Sn	115	1	36.03	ppb	0.96	35.36	1.88	20	
121	Sb	115	1	5.71	ppb	1.68	6.02	5.37	20	
137	Ba	115	1	59.40	ppb	1.06	99.66	50.62	20	
205	Tl	165	1	40.77	ppb	1.70	82.97	68.21	20	
208	Pb	165	1	55.36	ppb	0.98	64.68	15.53	20	
232	Th	165	1	44.94	ppb	0.65	65.00	36.49	20	
238	U	165	1	42.20	ppb	0.33	80.64	62.59	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	547098	0.38	543374	100.7	30 - 120	
45	Sc	1	2701781	0.53	2604595	103.7	30 - 120	
72	Ge	1	1639677	1.82	1574612	104.1	30 - 120	
115	In	1	4369477	0.83	4299749	101.6	30 - 120	
165	Ho	1	8711674	1.16	8578931	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\025SMPL.D\025SMPL.D#
Date Acquired: Nov 7 2011 08:54 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-2-a
Misc Info:
Vial Number: 2208
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.43	0.43	ppb	16.42	3600	
51	V	72	1	25.39	25.39	ppb	1.09	3600	
52	Cr	72	1	13.93	13.93	ppb	2.31	3600	
55	Mn	72	1	92.09	92.09	ppb	2.59	18000	
59	Co	72	1	3.93	3.93	ppb	2.05	3600	
60	Ni	72	1	7.97	7.97	ppb	1.15	3600	
63	Cu	72	1	5.81	5.81	ppb	0.54	3600	
66	Zn	72	1	37.93	37.93	ppb	0.32	3600	
75	As	72	1	7.65	7.65	ppb	0.50	3600	
78	Se	72	1	1.04	1.04	ppb	27.31	3600	
95	Mo	72	1	0.56	0.56	ppb	5.34	3600	
107	Ag	115	1	0.06	0.06	ppb	7.49	3600	
111	Cd	115	1	0.22	0.22	ppb	4.67	3600	
118	Sn	115	1	0.55	0.55	ppb	4.97	3600	
121	Sb	115	1	0.03	0.03	ppb	13.56	3600	
137	Ba	115	1	13.49	13.49	ppb	1.55	3600	
205	Tl	165	1	0.17	0.17	ppb	3.84	3600	
208	Pb	165	1	11.93	11.93	ppb	1.81	3600	
232	Th	165	1	3.70	3.70	ppb	1.87	1000	
238	U	165	1	1.27	1.27	ppb	1.82	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	549001	1.18	543374	101.0	30 - 120	
45	Sc	1	2708362	1.07	2604595	104.0	30 - 120	
72	Ge	1	1644204	0.58	1574612	104.4	30 - 120	
115	In	1	4396866	0.10	4299749	102.3	30 - 120	
165	Ho	1	8874422	1.45	8578931	103.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\026SMPL.D\026SMPL.D#
Date Acquired:	Nov 7 2011 08:57 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-3-a
Misc Info:	
Vial Number:	2209
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.47	0.47	ppb	15.73	3600	
51	V	72	1	17.56	17.56	ppb	2.32	3600	
52	Cr	72	1	8.50	8.50	ppb	2.02	3600	
55	Mn	72	1	58.42	58.42	ppb	2.25	18000	
59	Co	72	1	2.78	2.78	ppb	0.63	3600	
60	Ni	72	1	4.82	4.82	ppb	2.03	3600	
63	Cu	72	1	3.47	3.47	ppb	1.44	3600	
66	Zn	72	1	24.20	24.20	ppb	2.15	3600	
75	As	72	1	5.52	5.52	ppb	2.37	3600	
78	Se	72	1	0.62	0.62	ppb	29.29	3600	
95	Mo	72	1	0.53	0.53	ppb	7.49	3600	
107	Ag	115	1	0.03	0.03	ppb	2.03	3600	
111	Cd	115	1	0.17	0.17	ppb	3.43	3600	
118	Sn	115	1	0.35	0.35	ppb	2.30	3600	
121	Sb	115	1	0.02	0.02	ppb	5.15	3600	
137	Ba	115	1	8.39	8.39	ppb	1.76	3600	
205	Tl	165	1	0.14	0.14	ppb	1.35	3600	
208	Pb	165	1	8.17	8.17	ppb	0.19	3600	
232	Th	165	1	2.81	2.81	ppb	1.06	1000	
238	U	165	1	0.98	0.98	ppb	0.35	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	549720	1.33	543374	101.2	30 - 120	
45	Sc	1	2746397	1.68	2604595	105.4	30 - 120	
72	Ge	1	1663818	1.08	1574612	105.7	30 - 120	
115	In	1	4498914	1.04	4299749	104.6	30 - 120	
165	Ho	1	8815398	0.67	8578931	102.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\027_CCV.D\027_CCV.D#
Date Acquired: Nov 7 2011 09:00 pm
Operator: LRD
Sample Name: CCV-1116521
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.91	ppb	1.89	50	101.8	90 - 110	
51	V	72	1	50.95	ppb	1.61	50	101.9	90 - 110	
52	Cr	72	1	50.75	ppb	1.46	50	101.5	90 - 110	
55	Mn	72	1	50.22	ppb	1.85	50	100.4	90 - 110	
59	Co	72	1	50.37	ppb	1.37	50	100.7	90 - 110	
60	Ni	72	1	49.42	ppb	1.11	50	98.8	90 - 110	
63	Cu	72	1	49.62	ppb	2.67	50	99.2	90 - 110	
66	Zn	72	1	49.90	ppb	0.92	50	99.8	90 - 110	
75	As	72	1	50.51	ppb	1.40	50	101.0	90 - 110	
78	Se	72	1	51.56	ppb	3.99	50	103.1	90 - 110	
95	Mo	72	1	49.60	ppb	1.04	50	99.2	90 - 110	
107	Ag	115	1	49.55	ppb	0.72	50	99.1	90 - 110	
111	Cd	115	1	49.16	ppb	0.70	50	98.3	90 - 110	
118	Sn	115	1	48.69	ppb	1.20	50	97.4	90 - 110	
121	Sb	115	1	48.92	ppb	0.89	50	97.8	90 - 110	
137	Ba	115	1	49.89	ppb	1.42	50	99.8	90 - 110	
205	Tl	165	1	50.10	ppb	0.60	50	100.2	90 - 110	
208	Pb	165	1	49.04	ppb	0.65	50	98.1	90 - 110	
232	Th	165	1	49.47	ppb	1.16	50	98.9	90 - 110	
238	U	165	1	48.95	ppb	1.14	50	97.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	543347	0.29	543374	100.0	30 - 120	
45	Sc	1	2715620	1.85	2604595	104.3	30 - 120	
72	Ge	1	1645637	0.57	1574612	104.5	30 - 120	
115	In	1	4512507	0.75	4299749	104.9	30 - 120	
165	Ho	1	8721784	1.24	8578931	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\028_CCB.D\028_CCB.D#
Date Acquired: Nov 7 2011 09:03 pm
Operator: LRD
Sample Name: CCB-1116509
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	58.48	1.00	
51	V	72	1	0.006	ppb	226.30	1.00	
52	Cr	72	1	-0.022	ppb	55.24	1.00	
55	Mn	72	1	0.012	ppb	48.75	1.00	
59	Co	72	1	0.006	ppb	25.12	1.00	
60	Ni	72	1	0.009	ppb	51.34	1.00	
63	Cu	72	1	0.000	ppb	1795.80	1.00	
66	Zn	72	1	0.002	ppb	133.28	1.00	
75	As	72	1	0.014	ppb	39.19	1.00	
78	Se	72	1	0.267	ppb	53.36	1.00	
95	Mo	72	1	0.009	ppb	83.65	1.00	
107	Ag	115	1	0.009	ppb	20.09	1.00	
111	Cd	115	1	0.001	ppb	478.79	1.00	
118	Sn	115	1	0.039	ppb	32.16	1.00	
121	Sb	115	1	0.018	ppb	11.59	1.00	
137	Ba	115	1	0.012	ppb	12.66	1.00	
205	Tl	165	1	0.019	ppb	4.05	1.00	
208	Pb	165	1	0.009	ppb	12.24	1.00	
232	Th	165	1	0.028	ppb	2.08	1.00	
238	U	165	1	0.010	ppb	11.64	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551135	0.33	543374	101.4	30 - 120	
45	Sc	1	2706591	1.07	2604595	103.9	30 - 120	
72	Ge	1	1664577	0.74	1574612	105.7	30 - 120	
115	In	1	4525470	0.84	4299749	105.2	30 - 120	
165	Ho	1	8829934	0.22	8578931	102.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\029WASH.D\029WASH.D#
Date Acquired: Nov 7 2011 09:06 pm
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.254 ppb	7.85	1.30	
51	V	72	1	5.061 ppb	0.93	6.50	
52	Cr	72	1	2.185 ppb	2.00	2.60	
55	Mn	72	1	1.197 ppb	1.62	1.30	
59	Co	72	1	1.083 ppb	2.19	1.30	
60	Ni	72	1	2.257 ppb	1.56	2.60	
63	Cu	72	1	2.143 ppb	0.13	2.60	
66	Zn	72	1	10.430 ppb	1.36	13.00	
75	As	72	1	5.099 ppb	1.69	6.50	
78	Se	72	1	5.512 ppb	12.79	6.50	
95	Mo	72	1	2.105 ppb	2.83	2.60	
107	Ag	115	1	5.002 ppb	0.29	6.50	
111	Cd	115	1	1.044 ppb	1.14	1.30	
118	Sn	115	1	9.936 ppb	0.14	13.00	
121	Sb	115	1	2.061 ppb	0.68	2.60	
137	Ba	115	1	1.123 ppb	0.56	1.30	
205	Tl	165	1	1.093 ppb	1.47	1.30	
208	Pb	165	1	1.079 ppb	1.10	1.30	
232	Th	165	1	2.058 ppb	1.64	2.60	
238	U	165	1	1.053 ppb	0.88	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	546139	1.01	543374	100.5	30 - 120	
45	Sc	1	2720238	1.47	2604595	104.4	30 - 120	
72	Ge	1	1680359	0.88	1574612	106.7	30 - 120	
115	In	1	4548875	1.06	4299749	105.8	30 - 120	
165	Ho	1	8858905	0.20	8578931	103.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\030SMPL.D\030SMPL.D#
Date Acquired:	Nov 7 2011 09:09 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-4-a
Misc Info:	
Vial Number:	2210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.18	1.18	ppb	8.03	3600	
51	V	72	1	54.69	54.69	ppb	2.29	3600	
52	Cr	72	1	32.92	32.92	ppb	1.53	3600	
55	Mn	72	1	218.20	218.20	ppb	0.30	18000	
59	Co	72	1	8.59	8.59	ppb	1.61	3600	
60	Ni	72	1	19.11	19.11	ppb	0.95	3600	
63	Cu	72	1	14.29	14.29	ppb	1.47	3600	
66	Zn	72	1	85.79	85.79	ppb	1.25	3600	
75	As	72	1	19.39	19.39	ppb	0.82	3600	
78	Se	72	1	2.26	2.26	ppb	21.39	3600	
95	Mo	72	1	1.93	1.93	ppb	2.10	3600	
107	Ag	115	1	0.13	0.13	ppb	2.64	3600	
111	Cd	115	1	0.50	0.50	ppb	9.69	3600	
118	Sn	115	1	1.27	1.27	ppb	2.50	3600	
121	Sb	115	1	0.03	0.03	ppb	9.14	3600	
137	Ba	115	1	29.24	29.24	ppb	1.27	3600	
205	Tl	165	1	0.37	0.37	ppb	0.51	3600	
208	Pb	165	1	29.64	29.64	ppb	2.17	3600	
232	Th	165	1	7.61	7.61	ppb	3.42	1000	
238	U	165	1	2.98	2.98	ppb	1.96	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	547380	0.89	543374	100.7	30 - 120	
45	Sc	1	2708262	1.64	2604595	104.0	30 - 120	
72	Ge	1	1640400	0.73	1574612	104.2	30 - 120	
115	In	1	4367757	0.13	4299749	101.6	30 - 120	
165	Ho	1	8615167	0.92	8578931	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\031SMPL.D\031SMPL.D#
Date Acquired:	Nov 7 2011 09:12 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-5-a
Misc Info:	
Vial Number:	2211
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.96	0.96	ppb	4.89	3600	
51	V	72	1	47.69	47.69	ppb	1.70	3600	
52	Cr	72	1	26.67	26.67	ppb	0.17	3600	
55	Mn	72	1	168.10	168.10	ppb	1.51	18000	
59	Co	72	1	7.34	7.34	ppb	1.50	3600	
60	Ni	72	1	15.47	15.47	ppb	1.42	3600	
63	Cu	72	1	11.23	11.23	ppb	1.09	3600	
66	Zn	72	1	74.76	74.76	ppb	0.51	3600	
75	As	72	1	11.98	11.98	ppb	0.39	3600	
78	Se	72	1	1.92	1.92	ppb	31.88	3600	
95	Mo	72	1	1.26	1.26	ppb	4.80	3600	
107	Ag	115	1	0.09	0.09	ppb	6.87	3600	
111	Cd	115	1	0.37	0.37	ppb	5.18	3600	
118	Sn	115	1	1.03	1.03	ppb	5.22	3600	
121	Sb	115	1	0.03	0.03	ppb	5.60	3600	
137	Ba	115	1	23.89	23.89	ppb	1.71	3600	
205	Tl	165	1	0.26	0.26	ppb	1.77	3600	
208	Pb	165	1	23.97	23.97	ppb	0.57	3600	
232	Th	165	1	6.22	6.22	ppb	1.56	1000	
238	U	165	1	2.00	2.00	ppb	0.70	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	547997	0.97	543374	100.9	30 - 120	
45	Sc	1	2728849	2.24	2604595	104.8	30 - 120	
72	Ge	1	1619896	1.88	1574612	102.9	30 - 120	
115	In	1	4342798	0.68	4299749	101.0	30 - 120	
165	Ho	1	8700593	0.64	8578931	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\032SMPL.D\032SMPL.D#
Date Acquired:	Nov 7 2011 09:15 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-6-a
Misc Info:	
Vial Number:	2212
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.14	1.14	ppb	8.86	3600	
51	V	72	1	49.23	49.23	ppb	0.82	3600	
52	Cr	72	1	28.58	28.58	ppb	0.59	3600	
55	Mn	72	1	190.80	190.80	ppb	0.36	18000	
59	Co	72	1	7.88	7.88	ppb	1.31	3600	
60	Ni	72	1	16.72	16.72	ppb	0.73	3600	
63	Cu	72	1	12.29	12.29	ppb	0.82	3600	
66	Zn	72	1	78.54	78.54	ppb	0.61	3600	
75	As	72	1	17.72	17.72	ppb	0.74	3600	
78	Se	72	1	2.04	2.04	ppb	23.88	3600	
95	Mo	72	1	1.47	1.47	ppb	1.09	3600	
107	Ag	115	1	0.11	0.11	ppb	5.85	3600	
111	Cd	115	1	0.51	0.51	ppb	11.64	3600	
118	Sn	115	1	1.13	1.13	ppb	2.47	3600	
121	Sb	115	1	0.03	0.03	ppb	3.04	3600	
137	Ba	115	1	25.67	25.67	ppb	0.54	3600	
205	Tl	165	1	0.33	0.33	ppb	1.89	3600	
208	Pb	165	1	25.52	25.52	ppb	1.48	3600	
232	Th	165	1	6.63	6.63	ppb	3.06	1000	
238	U	165	1	2.81	2.81	ppb	1.31	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	546982	0.96	543374	100.7	30 - 120	
45	Sc	1	2668376	1.54	2604595	102.4	30 - 120	
72	Ge	1	1653110	0.56	1574612	105.0	30 - 120	
115	In	1	4371722	0.12	4299749	101.7	30 - 120	
165	Ho	1	8660120	1.11	8578931	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\033SMPL.D\033SMPL.D#
Date Acquired:	Nov 7 2011 09:17 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-7-a
Misc Info:	
Vial Number:	2301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.40	0.40	ppb	11.14	3600	
51	V	72	1	16.91	16.91	ppb	2.63	3600	
52	Cr	72	1	8.57	8.57	ppb	2.57	3600	
55	Mn	72	1	56.76	56.76	ppb	2.36	18000	
59	Co	72	1	3.11	3.11	ppb	1.44	3600	
60	Ni	72	1	5.01	5.01	ppb	3.18	3600	
63	Cu	72	1	7.61	7.61	ppb	2.49	3600	
66	Zn	72	1	27.29	27.29	ppb	1.11	3600	
75	As	72	1	5.25	5.25	ppb	1.86	3600	
78	Se	72	1	0.81	0.81	ppb	17.76	3600	
95	Mo	72	1	0.88	0.88	ppb	4.77	3600	
107	Ag	115	1	0.04	0.04	ppb	2.66	3600	
111	Cd	115	1	0.21	0.21	ppb	6.71	3600	
118	Sn	115	1	0.35	0.35	ppb	4.98	3600	
121	Sb	115	1	0.02	0.02	ppb	10.88	3600	
137	Ba	115	1	8.21	8.21	ppb	2.68	3600	
205	Tl	165	1	0.14	0.14	ppb	0.40	3600	
208	Pb	165	1	9.70	9.70	ppb	1.07	3600	
232	Th	165	1	2.90	2.90	ppb	0.88	1000	
238	U	165	1	1.26	1.26	ppb	1.51	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	537587	1.38	543374	98.9	30 - 120	
45	Sc	1	2710794	1.12	2604595	104.1	30 - 120	
72	Ge	1	1654253	1.24	1574612	105.1	30 - 120	
115	In	1	4443570	0.53	4299749	103.3	30 - 120	
165	Ho	1	8683795	1.12	8578931	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\034SMPL.D\034SMPL.D#
Date Acquired:	Nov 7 2011 09:20 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-8-a
Misc Info:	
Vial Number:	2302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.06	1.06	ppb	1.78	3600	
51	V	72	1	52.15	52.15	ppb	1.73	3600	
52	Cr	72	1	29.78	29.78	ppb	1.28	3600	
55	Mn	72	1	204.50	204.50	ppb	0.90	18000	
59	Co	72	1	8.35	8.35	ppb	0.86	3600	
60	Ni	72	1	17.66	17.66	ppb	0.83	3600	
63	Cu	72	1	13.65	13.65	ppb	0.76	3600	
66	Zn	72	1	87.77	87.77	ppb	0.37	3600	
75	As	72	1	20.03	20.03	ppb	0.90	3600	
78	Se	72	1	2.00	2.00	ppb	10.25	3600	
95	Mo	72	1	1.82	1.82	ppb	1.41	3600	
107	Ag	115	1	0.12	0.12	ppb	3.02	3600	
111	Cd	115	1	0.57	0.57	ppb	9.76	3600	
118	Sn	115	1	1.25	1.25	ppb	2.12	3600	
121	Sb	115	1	0.02	0.02	ppb	11.29	3600	
137	Ba	115	1	26.25	26.25	ppb	1.33	3600	
205	Tl	165	1	0.35	0.35	ppb	0.92	3600	
208	Pb	165	1	28.63	28.63	ppb	0.67	3600	
232	Th	165	1	6.52	6.52	ppb	0.45	1000	
238	U	165	1	2.44	2.44	ppb	0.65	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541650	0.76	543374	99.7	30 - 120	
45	Sc	1	2658100	1.65	2604595	102.1	30 - 120	
72	Ge	1	1615739	1.16	1574612	102.6	30 - 120	
115	In	1	4313973	0.25	4299749	100.3	30 - 120	
165	Ho	1	8655305	0.88	8578931	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\035SMPL.D\035SMPL.D#
Date Acquired: Nov 7 2011 09:23 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-9-a
Misc Info:
Vial Number: 2303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.14	1.14	ppb	14.63	3600	
51	V	72	1	45.75	45.75	ppb	1.40	3600	
52	Cr	72	1	23.80	23.80	ppb	0.46	3600	
55	Mn	72	1	152.30	152.30	ppb	1.12	18000	
59	Co	72	1	7.26	7.26	ppb	1.32	3600	
60	Ni	72	1	14.16	14.16	ppb	2.18	3600	
63	Cu	72	1	11.43	11.43	ppb	1.11	3600	
66	Zn	72	1	79.36	79.36	ppb	0.93	3600	
75	As	72	1	12.63	12.63	ppb	1.21	3600	
78	Se	72	1	1.56	1.56	ppb	6.58	3600	
95	Mo	72	1	1.13	1.13	ppb	2.92	3600	
107	Ag	115	1	0.09	0.09	ppb	4.31	3600	
111	Cd	115	1	0.40	0.40	ppb	8.17	3600	
118	Sn	115	1	1.00	1.00	ppb	1.80	3600	
121	Sb	115	1	0.03	0.03	ppb	9.53	3600	
137	Ba	115	1	21.21	21.21	ppb	0.79	3600	
205	Tl	165	1	0.25	0.25	ppb	1.28	3600	
208	Pb	165	1	23.92	23.92	ppb	0.95	3600	
232	Th	165	1	5.44	5.44	ppb	0.99	1000	
238	U	165	1	2.10	2.10	ppb	0.10	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	538601	0.49	543374	99.1	30 - 120	
45	Sc	1	2676255	0.87	2604595	102.8	30 - 120	
72	Ge	1	1626323	1.43	1574612	103.3	30 - 120	
115	In	1	4360544	1.42	4299749	101.4	30 - 120	
165	Ho	1	8636279	0.34	8578931	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\036SMPL.D\036SMPL.D#
Date Acquired:	Nov 7 2011 09:26 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-10-a
Misc Info:	
Vial Number:	2304
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.21	0.21	ppb	29.32	3600	
51	V	72	1	10.73	10.73	ppb	0.60	3600	
52	Cr	72	1	5.61	5.61	ppb	1.37	3600	
55	Mn	72	1	43.11	43.11	ppb	0.96	18000	
59	Co	72	1	2.18	2.18	ppb	0.76	3600	
60	Ni	72	1	3.32	3.32	ppb	1.94	3600	
63	Cu	72	1	2.46	2.46	ppb	1.54	3600	
66	Zn	72	1	16.59	16.59	ppb	0.96	3600	
75	As	72	1	3.24	3.24	ppb	1.48	3600	
78	Se	72	1	0.48	0.48	ppb	13.56	3600	
95	Mo	72	1	0.43	0.43	ppb	1.84	3600	
107	Ag	115	1	0.03	0.03	ppb	6.02	3600	
111	Cd	115	1	0.16	0.16	ppb	9.79	3600	
118	Sn	115	1	0.19	0.19	ppb	5.89	3600	
121	Sb	115	1	0.02	0.02	ppb	14.75	3600	
137	Ba	115	1	6.36	6.36	ppb	1.11	3600	
205	Tl	165	1	0.11	0.11	ppb	2.38	3600	
208	Pb	165	1	5.42	5.42	ppb	0.83	3600	
232	Th	165	1	2.11	2.11	ppb	1.40	1000	
238	U	165	1	0.75	0.75	ppb	1.49	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	538918	1.07	543374	99.2	30 - 120	
45	Sc	1	2716627	1.93	2604595	104.3	30 - 120	
72	Ge	1	1668082	1.73	1574612	105.9	30 - 120	
115	In	1	4535088	1.67	4299749	105.5	30 - 120	
165	Ho	1	8728014	0.82	8578931	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\037SMPL.D\037SMPL.D#
Date Acquired: Nov 7 2011 09:29 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-11-a
Misc Info:
Vial Number: 2305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.19	0.19	ppb	40.27	3600	
51	V	72	1	9.85	9.85	ppb	0.53	3600	
52	Cr	72	1	5.16	5.16	ppb	1.02	3600	
55	Mn	72	1	34.85	34.85	ppb	0.76	18000	
59	Co	72	1	1.88	1.88	ppb	1.82	3600	
60	Ni	72	1	2.96	2.96	ppb	0.82	3600	
63	Cu	72	1	2.08	2.08	ppb	1.37	3600	
66	Zn	72	1	14.77	14.77	ppb	0.48	3600	
75	As	72	1	3.19	3.19	ppb	0.89	3600	
78	Se	72	1	0.79	0.79	ppb	29.57	3600	
95	Mo	72	1	0.37	0.37	ppb	1.67	3600	
107	Ag	115	1	0.02	0.02	ppb	11.14	3600	
111	Cd	115	1	0.14	0.14	ppb	7.54	3600	
118	Sn	115	1	0.25	0.25	ppb	7.57	3600	
121	Sb	115	1	0.02	0.02	ppb	15.75	3600	
137	Ba	115	1	6.36	6.36	ppb	1.48	3600	
205	Tl	165	1	0.10	0.10	ppb	2.78	3600	
208	Pb	165	1	5.00	5.00	ppb	1.07	3600	
232	Th	165	1	3.81	3.81	ppb	0.49	1000	
238	U	165	1	0.69	0.69	ppb	1.50	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	550515	1.93	543374	101.3	30 - 120	
45	Sc	1	2776208	0.64	2604595	106.6	30 - 120	
72	Ge	1	1668032	1.13	1574612	105.9	30 - 120	
115	In	1	4519718	0.63	4299749	105.1	30 - 120	
165	Ho	1	8803929	1.34	8578931	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\038SMPL.D\038SMPL.D#
Date Acquired:	Nov 7 2011 09:32 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-12-a
Misc Info:	
Vial Number:	2306
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.14	0.14	ppb	31.48	3600	
51	V	72	1	7.44	7.44	ppb	2.48	3600	
52	Cr	72	1	4.04	4.04	ppb	2.06	3600	
55	Mn	72	1	26.30	26.30	ppb	2.22	18000	
59	Co	72	1	1.31	1.31	ppb	1.82	3600	
60	Ni	72	1	2.26	2.26	ppb	2.50	3600	
63	Cu	72	1	1.51	1.51	ppb	2.97	3600	
66	Zn	72	1	10.57	10.57	ppb	1.53	3600	
75	As	72	1	2.39	2.39	ppb	0.25	3600	
78	Se	72	1	0.83	0.83	ppb	28.43	3600	
95	Mo	72	1	0.31	0.31	ppb	4.72	3600	
107	Ag	115	1	0.02	0.02	ppb	32.02	3600	
111	Cd	115	1	0.11	0.11	ppb	12.00	3600	
118	Sn	115	1	0.16	0.16	ppb	3.93	3600	
121	Sb	115	1	0.02	0.02	ppb	5.63	3600	
137	Ba	115	1	5.23	5.23	ppb	1.53	3600	
205	Tl	165	1	0.07	0.07	ppb	4.22	3600	
208	Pb	165	1	3.84	3.84	ppb	0.20	3600	
232	Th	165	1	1.52	1.52	ppb	1.96	1000	
238	U	165	1	0.53	0.53	ppb	0.73	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	543814	0.80	543374	100.1	30 - 120	
45	Sc	1	2716669	1.41	2604595	104.3	30 - 120	
72	Ge	1	1666383	2.83	1574612	105.8	30 - 120	
115	In	1	4495800	1.86	4299749	104.6	30 - 120	
165	Ho	1	8733768	0.72	8578931	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\039_CCV.D\039_CCV.D#
Date Acquired: Nov 7 2011 09:35 pm
Operator: LRD
Sample Name: CCV-1116521
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.64	ppb	0.92	50	101.3	90 - 110	
51	V	72	1	50.47	ppb	2.26	50	100.9	90 - 110	
52	Cr	72	1	50.03	ppb	2.33	50	100.1	90 - 110	
55	Mn	72	1	50.14	ppb	1.07	50	100.3	90 - 110	
59	Co	72	1	50.28	ppb	1.17	50	100.6	90 - 110	
60	Ni	72	1	49.16	ppb	0.60	50	98.3	90 - 110	
63	Cu	72	1	49.24	ppb	0.05	50	98.5	90 - 110	
66	Zn	72	1	49.41	ppb	0.37	50	98.8	90 - 110	
75	As	72	1	49.74	ppb	0.51	50	99.5	90 - 110	
78	Se	72	1	50.02	ppb	1.97	50	100.0	90 - 110	
95	Mo	72	1	48.66	ppb	1.43	50	97.3	90 - 110	
107	Ag	115	1	49.38	ppb	1.32	50	98.8	90 - 110	
111	Cd	115	1	49.04	ppb	1.18	50	98.1	90 - 110	
118	Sn	115	1	48.13	ppb	1.41	50	96.3	90 - 110	
121	Sb	115	1	48.50	ppb	1.40	50	97.0	90 - 110	
137	Ba	115	1	49.90	ppb	0.58	50	99.8	90 - 110	
205	Tl	165	1	49.61	ppb	0.82	50	99.2	90 - 110	
208	Pb	165	1	48.86	ppb	1.09	50	97.7	90 - 110	
232	Th	165	1	48.90	ppb	2.21	50	97.8	90 - 110	
238	U	165	1	48.69	ppb	2.23	50	97.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	542941	0.09	543374	99.9	30 - 120	
45	Sc	1	2713679	2.08	2604595	104.2	30 - 120	
72	Ge	1	1692070	1.00	1574612	107.5	30 - 120	
115	In	1	4579728	0.89	4299749	106.5	30 - 120	
165	Ho	1	8788893	1.31	8578931	102.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\040_CCB.D\040_CCB.D#
Date Acquired: Nov 7 2011 09:38 pm
Operator: LRD
Sample Name: CCB-1116509
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	152.34	1.00	
51	V	72	1	0.000	ppb	1498.60	1.00	
52	Cr	72	1	-0.016	ppb	62.04	1.00	
55	Mn	72	1	0.015	ppb	51.87	1.00	
59	Co	72	1	0.004	ppb	41.49	1.00	
60	Ni	72	1	0.017	ppb	48.01	1.00	
63	Cu	72	1	0.023	ppb	0.87	1.00	
66	Zn	72	1	0.059	ppb	17.95	1.00	
75	As	72	1	0.011	ppb	43.81	1.00	
78	Se	72	1	0.264	ppb	56.81	1.00	
95	Mo	72	1	-0.011	ppb	53.84	1.00	
107	Ag	115	1	0.005	ppb	32.49	1.00	
111	Cd	115	1	0.005	ppb	39.57	1.00	
118	Sn	115	1	0.026	ppb	15.71	1.00	
121	Sb	115	1	0.011	ppb	11.09	1.00	
137	Ba	115	1	0.008	ppb	55.58	1.00	
205	Tl	165	1	0.010	ppb	14.56	1.00	
208	Pb	165	1	0.007	ppb	1.49	1.00	
232	Th	165	1	0.027	ppb	9.61	1.00	
238	U	165	1	0.008	ppb	11.54	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539671	0.11	543374	99.3	30 - 120	
45	Sc	1	2736498	1.22	2604595	105.1	30 - 120	
72	Ge	1	1681419	0.59	1574612	106.8	30 - 120	
115	In	1	4533814	1.29	4299749	105.4	30 - 120	
165	Ho	1	8727699	0.16	8578931	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\041WASH.D\041WASH.D#
Date Acquired: Nov 7 2011 09:41 pm
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.162 ppb	14.05	1.30	
51	V	72	1	4.910 ppb	1.78	6.50	
52	Cr	72	1	2.168 ppb	3.14	2.60	
55	Mn	72	1	1.182 ppb	3.30	1.30	
59	Co	72	1	1.058 ppb	2.73	1.30	
60	Ni	72	1	2.248 ppb	0.94	2.60	
63	Cu	72	1	2.169 ppb	2.58	2.60	
66	Zn	72	1	10.380 ppb	0.65	13.00	
75	As	72	1	5.122 ppb	1.18	6.50	
78	Se	72	1	5.507 ppb	5.60	6.50	
95	Mo	72	1	2.078 ppb	0.94	2.60	
107	Ag	115	1	5.090 ppb	0.81	6.50	
111	Cd	115	1	1.087 ppb	2.25	1.30	
118	Sn	115	1	9.886 ppb	0.91	13.00	
121	Sb	115	1	2.057 ppb	1.17	2.60	
137	Ba	115	1	1.112 ppb	3.51	1.30	
205	Tl	165	1	1.094 ppb	0.76	1.30	
208	Pb	165	1	1.087 ppb	0.58	1.30	
232	Th	165	1	2.048 ppb	0.63	2.60	
238	U	165	1	1.042 ppb	1.60	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	546305	0.25	543374	100.5	30 - 120	
45	Sc	1	2768243	0.46	2604595	106.3	30 - 120	
72	Ge	1	1692837	0.43	1574612	107.5	30 - 120	
115	In	1	4531069	1.76	4299749	105.4	30 - 120	
165	Ho	1	8749948	0.10	8578931	102.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\042SMPL.D\042SMPL.D#
Date Acquired: Nov 7 2011 09:44 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-13-a
Misc Info:
Vial Number: 2307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.23	0.23	ppb	19.93	3600	
51	V	72	1	10.92	10.92	ppb	1.29	3600	
52	Cr	72	1	6.31	6.31	ppb	1.95	3600	
55	Mn	72	1	48.36	48.36	ppb	0.79	18000	
59	Co	72	1	2.25	2.25	ppb	2.60	3600	
60	Ni	72	1	3.75	3.75	ppb	1.52	3600	
63	Cu	72	1	2.66	2.66	ppb	1.51	3600	
66	Zn	72	1	18.39	18.39	ppb	0.58	3600	
75	As	72	1	3.59	3.59	ppb	2.06	3600	
78	Se	72	1	0.90	0.90	ppb	32.87	3600	
95	Mo	72	1	0.49	0.49	ppb	4.94	3600	
107	Ag	115	1	0.03	0.03	ppb	6.33	3600	
111	Cd	115	1	0.16	0.16	ppb	12.28	3600	
118	Sn	115	1	0.24	0.24	ppb	9.73	3600	
121	Sb	115	1	0.02	0.02	ppb	15.29	3600	
137	Ba	115	1	7.86	7.86	ppb	0.94	3600	
205	Tl	165	1	0.11	0.11	ppb	2.95	3600	
208	Pb	165	1	5.72	5.72	ppb	1.62	3600	
232	Th	165	1	2.16	2.16	ppb	1.44	1000	
238	U	165	1	0.75	0.75	ppb	0.90	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	560243	0.59	543374	103.1	30 - 120	
45	Sc	1	2824942	0.97	2604595	108.5	30 - 120	
72	Ge	1	1707739	0.77	1574612	108.5	30 - 120	
115	In	1	4544891	1.39	4299749	105.7	30 - 120	
165	Ho	1	8860576	1.08	8578931	103.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\043SMPL.D\043SMPL.D#
Date Acquired:	Nov 7 2011 09:46 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-14-a
Misc Info:	
Vial Number:	2308
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.44	0.44	ppb	14.87	3600	
51	V	72	1	15.48	15.48	ppb	0.66	3600	
52	Cr	72	1	8.84	8.84	ppb	0.56	3600	
55	Mn	72	1	57.87	57.87	ppb	1.16	18000	
59	Co	72	1	2.99	2.99	ppb	0.45	3600	
60	Ni	72	1	5.09	5.09	ppb	2.32	3600	
63	Cu	72	1	3.55	3.55	ppb	1.58	3600	
66	Zn	72	1	25.04	25.04	ppb	0.64	3600	
75	As	72	1	4.79	4.79	ppb	1.01	3600	
78	Se	72	1	0.98	0.98	ppb	13.27	3600	
95	Mo	72	1	0.90	0.90	ppb	5.39	3600	
107	Ag	115	1	0.04	0.04	ppb	1.95	3600	
111	Cd	115	1	0.20	0.20	ppb	4.63	3600	
118	Sn	115	1	0.32	0.32	ppb	4.90	3600	
121	Sb	115	1	0.03	0.03	ppb	18.60	3600	
137	Ba	115	1	8.60	8.60	ppb	0.58	3600	
205	Tl	165	1	0.13	0.13	ppb	0.49	3600	
208	Pb	165	1	7.88	7.88	ppb	1.49	3600	
232	Th	165	1	4.25	4.25	ppb	2.24	1000	
238	U	165	1	1.29	1.29	ppb	2.23	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	557392	1.38	543374	102.6	30 - 120	
45	Sc	1	2837045	0.49	2604595	108.9	30 - 120	
72	Ge	1	1713623	1.16	1574612	108.8	30 - 120	
115	In	1	4545215	1.26	4299749	105.7	30 - 120	
165	Ho	1	8867216	0.31	8578931	103.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\044SMPL.D\044SMPL.D#
Date Acquired: Nov 7 2011 09:49 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-15-a
Misc Info:
Vial Number: 2309
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.50	0.50	ppb	19.88	3600	
51	V	72	1	25.26	25.26	ppb	1.25	3600	
52	Cr	72	1	12.45	12.45	ppb	1.02	3600	
55	Mn	72	1	85.87	85.87	ppb	1.90	18000	
59	Co	72	1	2.99	2.99	ppb	1.95	3600	
60	Ni	72	1	6.72	6.72	ppb	2.47	3600	
63	Cu	72	1	4.71	4.71	ppb	1.38	3600	
66	Zn	72	1	27.03	27.03	ppb	2.03	3600	
75	As	72	1	6.86	6.86	ppb	1.88	3600	
78	Se	72	1	1.02	1.02	ppb	17.76	3600	
95	Mo	72	1	0.70	0.70	ppb	2.57	3600	
107	Ag	115	1	0.04	0.04	ppb	6.44	3600	
111	Cd	115	1	0.18	0.18	ppb	13.84	3600	
118	Sn	115	1	0.38	0.38	ppb	4.51	3600	
121	Sb	115	1	0.02	0.02	ppb	8.05	3600	
137	Ba	115	1	11.37	11.37	ppb	2.87	3600	
205	Tl	165	1	0.10	0.10	ppb	3.32	3600	
208	Pb	165	1	8.00	8.00	ppb	0.36	3600	
232	Th	165	1	3.98	3.98	ppb	2.90	1000	
238	U	165	1	1.31	1.31	ppb	1.13	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	548525	0.74	543374	100.9	30 - 120	
45	Sc	1	2806392	0.22	2604595	107.7	30 - 120	
72	Ge	1	1681469	1.03	1574612	106.8	30 - 120	
115	In	1	4545053	1.14	4299749	105.7	30 - 120	
165	Ho	1	8745904	0.44	8578931	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\045SMPL.D\045SMPL.D#
Date Acquired: Nov 7 2011 09:52 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-16-a
Misc Info:
Vial Number: 2310
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.82	0.82	ppb	12.63	3600	
51	V	72	1	38.62	38.62	ppb	1.82	3600	
52	Cr	72	1	21.99	21.99	ppb	0.67	3600	
55	Mn	72	1	142.10	142.10	ppb	0.79	18000	
59	Co	72	1	5.38	5.38	ppb	0.11	3600	
60	Ni	72	1	12.62	12.62	ppb	1.33	3600	
63	Cu	72	1	8.53	8.53	ppb	0.61	3600	
66	Zn	72	1	48.03	48.03	ppb	0.83	3600	
75	As	72	1	10.49	10.49	ppb	1.02	3600	
78	Se	72	1	1.25	1.25	ppb	23.22	3600	
95	Mo	72	1	1.29	1.29	ppb	5.07	3600	
107	Ag	115	1	0.08	0.08	ppb	10.98	3600	
111	Cd	115	1	0.32	0.32	ppb	3.22	3600	
118	Sn	115	1	0.64	0.64	ppb	3.59	3600	
121	Sb	115	1	0.02	0.02	ppb	14.72	3600	
137	Ba	115	1	20.06	20.06	ppb	0.37	3600	
205	Tl	165	1	0.19	0.19	ppb	1.12	3600	
208	Pb	165	1	13.19	13.19	ppb	0.52	3600	
232	Th	165	1	5.69	5.69	ppb	1.54	1000	
238	U	165	1	1.96	1.96	ppb	1.09	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	546659	0.98	543374	100.6	30 - 120	
45	Sc	1	2747931	0.91	2604595	105.5	30 - 120	
72	Ge	1	1659976	0.84	1574612	105.4	30 - 120	
115	In	1	4495167	0.99	4299749	104.5	30 - 120	
165	Ho	1	8740314	0.54	8578931	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\046SMPL.D\046SMPL.D#
Date Acquired: Nov 7 2011 09:55 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-17-a
Misc Info:
Vial Number: 2311
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.43	0.43	ppb	5.50	3600	
51	V	72	1	27.45	27.45	ppb	2.06	3600	
52	Cr	72	1	4.95	4.95	ppb	2.16	3600	
55	Mn	72	1	55.46	55.46	ppb	1.42	18000	
59	Co	72	1	1.22	1.22	ppb	1.17	3600	
60	Ni	72	1	1.65	1.65	ppb	2.46	3600	
63	Cu	72	1	0.84	0.84	ppb	3.15	3600	
66	Zn	72	1	8.40	8.40	ppb	0.52	3600	
75	As	72	1	9.74	9.74	ppb	0.94	3600	
78	Se	72	1	0.39	0.39	ppb	39.22	3600	
95	Mo	72	1	0.40	0.40	ppb	11.19	3600	
107	Ag	115	1	0.01	0.01	ppb	13.06	3600	
111	Cd	115	1	0.05	0.05	ppb	7.75	3600	
118	Sn	115	1	0.10	0.10	ppb	14.61	3600	
121	Sb	115	1	0.04	0.04	ppb	2.31	3600	
137	Ba	115	1	4.19	4.19	ppb	1.68	3600	
205	Tl	165	1	0.01	0.01	ppb	18.46	3600	
208	Pb	165	1	4.61	4.61	ppb	0.54	3600	
232	Th	165	1	1.08	1.08	ppb	0.64	1000	
238	U	165	1	0.39	0.39	ppb	1.37	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	543719	0.75	543374	100.1	30 - 120	
45	Sc	1	2728425	1.29	2604595	104.8	30 - 120	
72	Ge	1	1689798	1.31	1574612	107.3	30 - 120	
115	In	1	4492987	0.72	4299749	104.5	30 - 120	
165	Ho	1	8741289	1.03	8578931	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\047SMPL.D\047SMPL.D#
Date Acquired: Nov 7 2011 09:58 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-18-a
Misc Info:
Vial Number: 2312
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.56	0.56	ppb	31.19	3600	
51	V	72	1	55.29	55.29	ppb	1.92	3600	
52	Cr	72	1	9.91	9.91	ppb	1.52	3600	
55	Mn	72	1	37.82	37.82	ppb	2.37	18000	
59	Co	72	1	2.74	2.74	ppb	1.43	3600	
60	Ni	72	1	2.54	2.54	ppb	1.90	3600	
63	Cu	72	1	1.05	1.05	ppb	5.09	3600	
66	Zn	72	1	14.10	14.10	ppb	0.74	3600	
75	As	72	1	18.33	18.33	ppb	2.42	3600	
78	Se	72	1	0.62	0.62	ppb	74.25	3600	
95	Mo	72	1	0.91	0.91	ppb	3.02	3600	
107	Ag	115	1	0.01	0.01	ppb	34.23	3600	
111	Cd	115	1	0.06	0.06	ppb	27.17	3600	
118	Sn	115	1	0.12	0.12	ppb	3.91	3600	
121	Sb	115	1	0.07	0.07	ppb	4.04	3600	
137	Ba	115	1	2.07	2.07	ppb	3.80	3600	
205	Tl	165	1	0.03	0.03	ppb	5.73	3600	
208	Pb	165	1	8.64	8.64	ppb	0.92	3600	
232	Th	165	1	1.21	1.21	ppb	1.49	1000	
238	U	165	1	0.86	0.86	ppb	1.07	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551247	1.21	543374	101.4	30 - 120	
45	Sc	1	2770927	1.71	2604595	106.4	30 - 120	
72	Ge	1	1695855	1.59	1574612	107.7	30 - 120	
115	In	1	4597731	1.81	4299749	106.9	30 - 120	
165	Ho	1	8914475	0.75	8578931	103.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\048SMPL.D\048SMPL.D#
Date Acquired: Nov 7 2011 10:01 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-19-a
Misc Info:
Vial Number: 2401
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.53	0.53	ppb	10.72	3600	
51	V	72	1	48.93	48.93	ppb	0.87	3600	
52	Cr	72	1	8.83	8.83	ppb	1.42	3600	
55	Mn	72	1	37.57	37.57	ppb	0.38	18000	
59	Co	72	1	1.41	1.41	ppb	2.87	3600	
60	Ni	72	1	2.24	2.24	ppb	3.19	3600	
63	Cu	72	1	1.10	1.10	ppb	1.84	3600	
66	Zn	72	1	12.68	12.68	ppb	0.81	3600	
75	As	72	1	15.16	15.16	ppb	0.72	3600	
78	Se	72	1	0.56	0.56	ppb	38.02	3600	
95	Mo	72	1	0.73	0.73	ppb	0.44	3600	
107	Ag	115	1	0.01	0.01	ppb	17.43	3600	
111	Cd	115	1	0.07	0.07	ppb	1.48	3600	
118	Sn	115	1	0.08	0.08	ppb	11.86	3600	
121	Sb	115	1	0.06	0.06	ppb	7.73	3600	
137	Ba	115	1	2.33	2.33	ppb	2.67	3600	
205	Tl	165	1	0.03	0.03	ppb	3.41	3600	
208	Pb	165	1	7.68	7.68	ppb	0.89	3600	
232	Th	165	1	2.70	2.70	ppb	1.59	1000	
238	U	165	1	0.81	0.81	ppb	1.60	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539056	1.04	543374	99.2	30 - 120	
45	Sc	1	2718449	0.69	2604595	104.4	30 - 120	
72	Ge	1	1660522	1.03	1574612	105.5	30 - 120	
115	In	1	4554949	0.37	4299749	105.9	30 - 120	
165	Ho	1	8633112	1.19	8578931	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\049SMPL.D\049SMPL.D#
Date Acquired: Nov 7 2011 10:04 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-20-a
Misc Info:
Vial Number: 2402
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.32	0.32	ppb	19.28	3600	
51	V	72	1	27.31	27.31	ppb	0.52	3600	
52	Cr	72	1	12.26	12.26	ppb	0.25	3600	
55	Mn	72	1	44.48	44.48	ppb	0.58	18000	
59	Co	72	1	1.18	1.18	ppb	0.45	3600	
60	Ni	72	1	4.34	4.34	ppb	1.39	3600	
63	Cu	72	1	3.44	3.44	ppb	2.97	3600	
66	Zn	72	1	15.45	15.45	ppb	1.59	3600	
75	As	72	1	6.01	6.01	ppb	1.41	3600	
78	Se	72	1	1.28	1.28	ppb	16.35	3600	
95	Mo	72	1	0.80	0.80	ppb	3.58	3600	
107	Ag	115	1	0.05	0.05	ppb	3.05	3600	
111	Cd	115	1	0.10	0.10	ppb	17.31	3600	
118	Sn	115	1	0.13	0.13	ppb	4.81	3600	
121	Sb	115	1	0.03	0.03	ppb	15.90	3600	
137	Ba	115	1	10.59	10.59	ppb	0.43	3600	
205	Tl	165	1	0.11	0.11	ppb	1.44	3600	
208	Pb	165	1	59.26	59.26	ppb	1.72	3600	
232	Th	165	1	7.63	7.63	ppb	2.71	1000	
238	U	165	1	0.87	0.87	ppb	0.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552764	0.78	543374	101.7	30 - 120	
45	Sc	1	2781027	0.48	2604595	106.8	30 - 120	
72	Ge	1	1693506	1.52	1574612	107.6	30 - 120	
115	In	1	4557975	1.42	4299749	106.0	30 - 120	
165	Ho	1	8814762	1.01	8578931	102.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\050_CCV.D\050_CCV.D#
Date Acquired:	Nov 7 2011 10:07 pm
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.13	ppb	1.17	50	100.3	90 - 110	
51	V	72	1	49.54	ppb	0.81	50	99.1	90 - 110	
52	Cr	72	1	49.90	ppb	0.75	50	99.8	90 - 110	
55	Mn	72	1	50.06	ppb	0.25	50	100.1	90 - 110	
59	Co	72	1	49.56	ppb	0.50	50	99.1	90 - 110	
60	Ni	72	1	48.37	ppb	0.32	50	96.7	90 - 110	
63	Cu	72	1	48.78	ppb	0.75	50	97.6	90 - 110	
66	Zn	72	1	49.36	ppb	0.17	50	98.7	90 - 110	
75	As	72	1	49.94	ppb	0.93	50	99.9	90 - 110	
78	Se	72	1	50.92	ppb	1.67	50	101.8	90 - 110	
95	Mo	72	1	48.16	ppb	1.81	50	96.3	90 - 110	
107	Ag	115	1	50.11	ppb	1.38	50	100.2	90 - 110	
111	Cd	115	1	49.42	ppb	1.48	50	98.8	90 - 110	
118	Sn	115	1	48.81	ppb	0.44	50	97.6	90 - 110	
121	Sb	115	1	49.01	ppb	0.66	50	98.0	90 - 110	
137	Ba	115	1	50.68	ppb	0.84	50	101.4	90 - 110	
205	Tl	165	1	50.01	ppb	1.16	50	100.0	90 - 110	
208	Pb	165	1	48.77	ppb	0.98	50	97.5	90 - 110	
232	Th	165	1	48.48	ppb	1.44	50	97.0	90 - 110	
238	U	165	1	48.03	ppb	2.22	50	96.1	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	549666	1.07	543374	101.2	30 - 120	
45	Sc	1	2777532	1.60	2604595	106.6	30 - 120	
72	Ge	1	1706670	0.62	1574612	108.4	30 - 120	
115	In	1	4570835	1.09	4299749	106.3	30 - 120	
165	Ho	1	8814575	0.77	8578931	102.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\051_CCB.D\051_CCB.D#
Date Acquired: Nov 7 2011 10:10 pm
Operator: LRD
Sample Name: CCB-1116509
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	173.58	1.00	
51	V	72	1	-0.002	ppb	179.82	1.00	
52	Cr	72	1	-0.018	ppb	25.29	1.00	
55	Mn	72	1	0.021	ppb	43.46	1.00	
59	Co	72	1	0.003	ppb	79.78	1.00	
60	Ni	72	1	0.013	ppb	31.79	1.00	
63	Cu	72	1	0.011	ppb	38.84	1.00	
66	Zn	72	1	0.042	ppb	29.29	1.00	
75	As	72	1	0.017	ppb	15.17	1.00	
78	Se	72	1	0.337	ppb	60.67	1.00	
95	Mo	72	1	-0.011	ppb	62.39	1.00	
107	Ag	115	1	0.006	ppb	57.56	1.00	
111	Cd	115	1	0.000	ppb	774.67	1.00	
118	Sn	115	1	0.028	ppb	10.50	1.00	
121	Sb	115	1	0.012	ppb	3.49	1.00	
137	Ba	115	1	0.012	ppb	13.89	1.00	
205	Tl	165	1	0.014	ppb	12.24	1.00	
208	Pb	165	1	0.010	ppb	8.73	1.00	
232	Th	165	1	0.025	ppb	6.84	1.00	
238	U	165	1	0.009	ppb	6.44	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	546717	1.63	543374	100.6	30 - 120	
45	Sc	1	2756614	0.44	2604595	105.8	30 - 120	
72	Ge	1	1702662	0.60	1574612	108.1	30 - 120	
115	In	1	4560359	0.62	4299749	106.1	30 - 120	
165	Ho	1	8759312	0.45	8578931	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\052WASH.D\052WASH.D#
Date Acquired: Nov 7 2011 10:13 pm
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.230 ppb	6.72	1.30	
51	V	72	1	4.989 ppb	1.85	6.50	
52	Cr	72	1	2.197 ppb	2.63	2.60	
55	Mn	72	1	1.188 ppb	1.09	1.30	
59	Co	72	1	1.083 ppb	4.03	1.30	
60	Ni	72	1	2.261 ppb	5.09	2.60	
63	Cu	72	1	2.164 ppb	0.42	2.60	
66	Zn	72	1	10.370 ppb	1.89	13.00	
75	As	72	1	5.236 ppb	1.65	6.50	
78	Se	72	1	5.436 ppb	3.24	6.50	
95	Mo	72	1	2.044 ppb	1.48	2.60	
107	Ag	115	1	4.991 ppb	0.87	6.50	
111	Cd	115	1	1.075 ppb	4.00	1.30	
118	Sn	115	1	9.912 ppb	2.69	13.00	
121	Sb	115	1	2.058 ppb	1.43	2.60	
137	Ba	115	1	1.081 ppb	2.54	1.30	
205	Tl	165	1	1.094 ppb	0.29	1.30	
208	Pb	165	1	1.085 ppb	1.07	1.30	
232	Th	165	1	2.060 ppb	1.83	2.60	
238	U	165	1	1.052 ppb	0.68	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551524	0.82	543374	101.5	30 - 120	
45	Sc	1	2776042	1.43	2604595	106.6	30 - 120	
72	Ge	1	1713630	1.45	1574612	108.8	30 - 120	
115	In	1	4638204	0.54	4299749	107.9	30 - 120	
165	Ho	1	8786742	1.27	8578931	102.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\053_BLK.D\053_BLK.D#
Date Acquired:	Nov 7 2011 10:16 pm
Operator:	LRD
Sample Name:	mb 280-92643/1-a
Misc Info:	BLANK 92643 Soil DoD4/6020A
Vial Number:	2403
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	359.16	2.00	
51	V	72	1	0.001	ppb	875.72	2.00	
52	Cr	72	1	0.080	ppb	9.56	2.00	
55	Mn	72	1	0.049	ppb	5.26	2.00	
59	Co	72	1	0.005	ppb	7.69	2.00	
60	Ni	72	1	0.057	ppb	14.29	2.00	
63	Cu	72	1	0.177	ppb	3.75	2.00	
66	Zn	72	1	0.503	ppb	5.10	2.00	
75	As	72	1	0.016	ppb	42.70	2.00	
78	Se	72	1	0.482	ppb	50.34	2.00	
95	Mo	72	1	-0.025	ppb	16.93	2.00	
107	Ag	115	1	0.006	ppb	24.01	2.00	
111	Cd	115	1	0.003	ppb	220.91	2.00	
118	Sn	115	1	0.058	ppb	12.43	2.00	
121	Sb	115	1	0.007	ppb	26.37	2.00	
137	Ba	115	1	0.080	ppb	1.55	2.00	
205	Tl	165	1	0.008	ppb	14.39	2.00	
208	Pb	165	1	0.017	ppb	5.78	2.00	
232	Th	165	1	0.012	ppb	15.13	2.00	
238	U	165	1	0.009	ppb	10.81	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	555415	1.32	543374	102.2	30 - 120	
45	Sc	1	2815729	0.66	2604595	108.1	30 - 120	
72	Ge	1	1699293	0.86	1574612	107.9	30 - 120	
115	In	1	4600596	1.19	4299749	107.0	30 - 120	
165	Ho	1	8814689	1.13	8578931	102.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\054_LCS.D\054_LCS.D#
Date Acquired:	Nov 7 2011 10:19 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-92643/2-a
Misc Info:	LCS
Vial Number:	2404
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.03	1.29	40	100.1	80 - 120	
51	V	72	1	40.50	1.45	40	101.3	80 - 120	
52	Cr	72	1	41.53	1.97	40	103.8	80 - 120	
55	Mn	72	1	39.86	1.20	40	99.7	80 - 120	
59	Co	72	1	40.57	0.98	40	101.4	80 - 120	
60	Ni	72	1	39.73	1.31	40	99.3	80 - 120	
63	Cu	72	1	39.31	0.55	40	98.3	80 - 120	
66	Zn	72	1	39.21	1.06	40	98.0	80 - 120	
75	As	72	1	39.50	0.53	40	98.8	80 - 120	
78	Se	72	1	40.79	2.83	40	102.0	80 - 120	
95	Mo	72	1	40.59	1.64	40	101.5	80 - 120	
107	Ag	115	1	39.13	1.51	40	97.8	80 - 120	
111	Cd	115	1	38.47	1.16	40	96.2	80 - 120	
118	Sn	115	1	39.65	1.23	40	99.1	80 - 120	
121	Sb	115	1	39.19	2.07	40	98.0	80 - 120	
137	Ba	115	1	39.62	2.80	40	99.1	80 - 120	
205	Tl	165	1	39.80	1.87	40	99.5	80 - 120	
208	Pb	165	1	39.50	0.95	40	98.8	80 - 120	
232	Th	165	1	37.59	1.98	40	94.0	80 - 120	
238	U	165	1	38.88	2.22	40	97.2	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	554198	0.88	543374	102.0	30 - 120	
45	Sc	1	2820217	0.89	2604595	108.3	30 - 120	
72	Ge	1	1702895	0.23	1574612	108.1	30 - 120	
115	In	1	4689445	1.72	4299749	109.1	30 - 120	
165	Ho	1	8888806	1.14	8578931	103.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\055SMPL.D\055SMPL.D#
Date Acquired: Nov 7 2011 10:21 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-21-a
Misc Info:
Vial Number: 2405
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	34.19	3600	
51	V	72	1	25.55	25.55	ppb	0.15	3600	
52	Cr	72	1	11.19	11.19	ppb	0.09	3600	
55	Mn	72	1	39.50	39.50	ppb	0.33	18000	
59	Co	72	1	1.05	1.05	ppb	2.04	3600	
60	Ni	72	1	3.82	3.82	ppb	1.21	3600	
63	Cu	72	1	3.22	3.22	ppb	1.97	3600	
66	Zn	72	1	13.59	13.59	ppb	0.40	3600	
75	As	72	1	5.75	5.75	ppb	1.42	3600	
78	Se	72	1	1.39	1.39	ppb	15.86	3600	
95	Mo	72	1	0.74	0.74	ppb	8.97	3600	
107	Ag	115	1	0.05	0.05	ppb	4.56	3600	
111	Cd	115	1	0.09	0.09	ppb	12.42	3600	
118	Sn	115	1	0.24	0.24	ppb	9.66	3600	
121	Sb	115	1	0.03	0.03	ppb	11.04	3600	
137	Ba	115	1	9.59	9.59	ppb	0.57	3600	
205	Tl	165	1	0.12	0.12	ppb	5.54	3600	
208	Pb	165	1	57.31	57.31	ppb	2.17	3600	
232	Th	165	1	4.49	4.49	ppb	1.73	1000	
238	U	165	1	0.74	0.74	ppb	1.20	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	558148	1.14	543374	102.7	30 - 120	
45	Sc	1	2861279	1.20	2604595	109.9	30 - 120	
72	Ge	1	1723908	0.63	1574612	109.5	30 - 120	
115	In	1	4575725	0.85	4299749	106.4	30 - 120	
165	Ho	1	8877265	0.83	8578931	103.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\056SMPL.D\056SMPL.D#
Date Acquired: Nov 7 2011 10:24 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-22-f
Misc Info:
Vial Number: 2406
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.37	0.37	ppb	5.02	3600	
51	V	72	1	28.95	28.95	ppb	1.49	3600	
52	Cr	72	1	17.32	17.32	ppb	0.54	3600	
55	Mn	72	1	63.96	63.96	ppb	1.55	18000	
59	Co	72	1	2.22	2.22	ppb	3.19	3600	
60	Ni	72	1	7.96	7.96	ppb	1.90	3600	
63	Cu	72	1	2.84	2.84	ppb	2.83	3600	
66	Zn	72	1	17.22	17.22	ppb	1.59	3600	
75	As	72	1	5.81	5.81	ppb	0.92	3600	
78	Se	72	1	1.85	1.85	ppb	13.07	3600	
95	Mo	72	1	0.65	0.65	ppb	6.32	3600	
107	Ag	115	1	0.03	0.03	ppb	24.62	3600	
111	Cd	115	1	0.06	0.06	ppb	32.88	3600	
118	Sn	115	1	0.15	0.15	ppb	9.95	3600	
121	Sb	115	1	0.02	0.02	ppb	2.20	3600	
137	Ba	115	1	13.03	13.03	ppb	1.32	3600	
205	Tl	165	1	0.12	0.12	ppb	4.53	3600	
208	Pb	165	1	89.77	89.77	ppb	0.62	3600	
232	Th	165	1	7.04	7.04	ppb	0.82	1000	
238	U	165	1	1.01	1.01	ppb	0.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	559961	0.54	543374	103.1	30 - 120	
45	Sc	1	2822021	2.37	2604595	108.3	30 - 120	
72	Ge	1	1706570	1.93	1574612	108.4	30 - 120	
115	In	1	4568823	1.21	4299749	106.3	30 - 120	
165	Ho	1	8858767	0.41	8578931	103.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\057SMPL.D\057SMPL.D#
Date Acquired: Nov 7 2011 10:27 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-23-b
Misc Info:
Vial Number: 2407
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.35	0.35	ppb	17.98	3600	
51	V	72	1	28.04	28.04	ppb	0.57	3600	
52	Cr	72	1	17.11	17.11	ppb	0.81	3600	
55	Mn	72	1	54.66	54.66	ppb	0.64	18000	
59	Co	72	1	2.06	2.06	ppb	2.02	3600	
60	Ni	72	1	7.83	7.83	ppb	1.48	3600	
63	Cu	72	1	2.75	2.75	ppb	0.80	3600	
66	Zn	72	1	16.49	16.49	ppb	0.54	3600	
75	As	72	1	5.66	5.66	ppb	2.10	3600	
78	Se	72	1	1.80	1.80	ppb	22.81	3600	
95	Mo	72	1	0.67	0.67	ppb	2.35	3600	
107	Ag	115	1	0.02	0.02	ppb	13.66	3600	
111	Cd	115	1	0.08	0.08	ppb	18.01	3600	
118	Sn	115	1	0.14	0.14	ppb	5.84	3600	
121	Sb	115	1	0.01	0.01	ppb	12.48	3600	
137	Ba	115	1	12.82	12.82	ppb	0.94	3600	
205	Tl	165	1	0.11	0.11	ppb	0.61	3600	
208	Pb	165	1	82.61	82.61	ppb	1.65	3600	
232	Th	165	1	7.16	7.16	ppb	2.89	1000	
238	U	165	1	1.01	1.01	ppb	1.93	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	561941	0.34	543374	103.4	30 - 120	
45	Sc	1	2812586	0.99	2604595	108.0	30 - 120	
72	Ge	1	1709667	0.86	1574612	108.6	30 - 120	
115	In	1	4603810	1.86	4299749	107.1	30 - 120	
165	Ho	1	8853776	0.12	8578931	103.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\058SMPL.D\058SMPL.D#
Date Acquired:	Nov 7 2011 10:30 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-35-b
Misc Info:	
Vial Number:	2408
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.20	0.20	ppb	13.60	3600	
51	V	72	1	15.67	15.67	ppb	0.89	3600	
52	Cr	72	1	7.81	7.81	ppb	0.75	3600	
55	Mn	72	1	62.09	62.09	ppb	0.77	18000	
59	Co	72	1	0.80	0.80	ppb	1.82	3600	
60	Ni	72	1	3.24	3.24	ppb	2.60	3600	
63	Cu	72	1	1.69	1.69	ppb	0.22	3600	
66	Zn	72	1	10.92	10.92	ppb	1.09	3600	
75	As	72	1	3.10	3.10	ppb	0.12	3600	
78	Se	72	1	1.19	1.19	ppb	19.11	3600	
95	Mo	72	1	0.57	0.57	ppb	3.60	3600	
107	Ag	115	1	0.03	0.03	ppb	12.27	3600	
111	Cd	115	1	0.03	0.03	ppb	28.05	3600	
118	Sn	115	1	0.12	0.12	ppb	8.75	3600	
121	Sb	115	1	0.01	0.01	ppb	14.28	3600	
137	Ba	115	1	4.81	4.81	ppb	3.25	3600	
205	Tl	165	1	0.09	0.09	ppb	1.53	3600	
208	Pb	165	1	8.89	8.89	ppb	0.91	3600	
232	Th	165	1	8.27	8.27	ppb	0.80	1000	
238	U	165	1	1.31	1.31	ppb	0.52	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	560415	1.61	543374	103.1	30 - 120	
45	Sc	1	2865861	0.90	2604595	110.0	30 - 120	
72	Ge	1	1705963	1.85	1574612	108.3	30 - 120	
115	In	1	4609103	0.69	4299749	107.2	30 - 120	
165	Ho	1	8988962	1.33	8578931	104.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\059SMPL.D\059SMPL.D#
Date Acquired: Nov 7 2011 10:33 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-36-d
Misc Info:
Vial Number: 2409
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.38	0.38	ppb	15.66	3600	
51	V	72	1	20.93	20.93	ppb	2.05	3600	
52	Cr	72	1	12.95	12.95	ppb	1.60	3600	
55	Mn	72	1	51.29	51.29	ppb	1.42	18000	
59	Co	72	1	1.54	1.54	ppb	1.12	3600	
60	Ni	72	1	6.27	6.27	ppb	0.96	3600	
63	Cu	72	1	2.27	2.27	ppb	1.83	3600	
66	Zn	72	1	12.93	12.93	ppb	0.96	3600	
75	As	72	1	4.64	4.64	ppb	0.38	3600	
78	Se	72	1	1.53	1.53	ppb	17.93	3600	
95	Mo	72	1	0.48	0.48	ppb	2.87	3600	
107	Ag	115	1	0.02	0.02	ppb	8.25	3600	
111	Cd	115	1	0.05	0.05	ppb	6.85	3600	
118	Sn	115	1	0.21	0.21	ppb	16.23	3600	
121	Sb	115	1	0.01	0.01	ppb	6.96	3600	
137	Ba	115	1	7.07	7.07	ppb	2.47	3600	
205	Tl	165	1	0.10	0.10	ppb	1.16	3600	
208	Pb	165	1	7.60	7.60	ppb	1.70	3600	
232	Th	165	1	10.46	10.46	ppb	1.43	1000	
238	U	165	1	1.49	1.49	ppb	0.91	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	557400	1.64	543374	102.6	30 - 120	
45	Sc	1	2858080	1.17	2604595	109.7	30 - 120	
72	Ge	1	1727266	1.05	1574612	109.7	30 - 120	
115	In	1	4589736	0.81	4299749	106.7	30 - 120	
165	Ho	1	8851385	0.67	8578931	103.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\060SMPL.D\060SMPL.D#
Date Acquired:	Nov 7 2011 10:36 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-37-b
Misc Info:	
Vial Number:	2410
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.20	0.20	ppb	25.84	3600	
51	V	72	1	11.55	11.55	ppb	2.30	3600	
52	Cr	72	1	5.52	5.52	ppb	2.54	3600	
55	Mn	72	1	60.77	60.77	ppb	3.12	18000	
59	Co	72	1	0.60	0.60	ppb	3.10	3600	
60	Ni	72	1	2.13	2.13	ppb	1.47	3600	
63	Cu	72	1	1.65	1.65	ppb	3.88	3600	
66	Zn	72	1	9.66	9.66	ppb	1.16	3600	
75	As	72	1	2.48	2.48	ppb	0.85	3600	
78	Se	72	1	1.38	1.38	ppb	23.13	3600	
95	Mo	72	1	0.38	0.38	ppb	1.53	3600	
107	Ag	115	1	0.02	0.02	ppb	3.09	3600	
111	Cd	115	1	0.03	0.03	ppb	11.89	3600	
118	Sn	115	1	0.06	0.06	ppb	21.49	3600	
121	Sb	115	1	0.01	0.01	ppb	6.07	3600	
137	Ba	115	1	4.52	4.52	ppb	1.10	3600	
205	Tl	165	1	0.06	0.06	ppb	5.53	3600	
208	Pb	165	1	9.62	9.62	ppb	0.47	3600	
232	Th	165	1	7.63	7.63	ppb	1.36	1000	
238	U	165	1	1.26	1.26	ppb	0.71	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	559740	0.64	543374	103.0	30 - 120	
45	Sc	1	2872123	0.25	2604595	110.3	30 - 120	
72	Ge	1	1731157	0.14	1574612	109.9	30 - 120	
115	In	1	4657368	0.27	4299749	108.3	30 - 120	
165	Ho	1	8982829	0.91	8578931	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\061SMPL.D\061SMPL.D#
Date Acquired: Nov 7 2011 10:39 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-38-d
Misc Info:
Vial Number: 2411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.38	0.38	ppb	14.04	3600	
51	V	72	1	15.64	15.64	ppb	1.39	3600	
52	Cr	72	1	8.96	8.96	ppb	2.05	3600	
55	Mn	72	1	53.66	53.66	ppb	1.26	18000	
59	Co	72	1	0.97	0.97	ppb	3.44	3600	
60	Ni	72	1	3.81	3.81	ppb	4.26	3600	
63	Cu	72	1	1.65	1.65	ppb	2.05	3600	
66	Zn	72	1	10.89	10.89	ppb	2.69	3600	
75	As	72	1	2.85	2.85	ppb	3.53	3600	
78	Se	72	1	1.57	1.57	ppb	16.21	3600	
95	Mo	72	1	0.33	0.33	ppb	7.14	3600	
107	Ag	115	1	0.02	0.02	ppb	22.11	3600	
111	Cd	115	1	0.03	0.03	ppb	13.27	3600	
118	Sn	115	1	0.12	0.12	ppb	12.49	3600	
121	Sb	115	1	0.01	0.01	ppb	12.26	3600	
137	Ba	115	1	7.65	7.65	ppb	0.88	3600	
205	Tl	165	1	0.08	0.08	ppb	2.19	3600	
208	Pb	165	1	6.02	6.02	ppb	0.39	3600	
232	Th	165	1	8.99	8.99	ppb	0.66	1000	
238	U	165	1	1.37	1.37	ppb	1.20	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	560012	0.11	543374	103.1	30 - 120	
45	Sc	1	2893519	0.81	2604595	111.1	30 - 120	
72	Ge	1	1719963	0.76	1574612	109.2	30 - 120	
115	In	1	4624098	1.58	4299749	107.5	30 - 120	
165	Ho	1	9148657	0.48	8578931	106.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\062_CCV.D\062_CCV.D#
Date Acquired:	Nov 7 2011 10:42 pm
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.51	ppb	1.69	50	103.0	90 - 110	
51	V	72	1	51.24	ppb	0.87	50	102.5	90 - 110	
52	Cr	72	1	50.50	ppb	1.43	50	101.0	90 - 110	
55	Mn	72	1	49.87	ppb	1.87	50	99.7	90 - 110	
59	Co	72	1	50.49	ppb	1.72	50	101.0	90 - 110	
60	Ni	72	1	49.36	ppb	1.26	50	98.7	90 - 110	
63	Cu	72	1	49.91	ppb	1.62	50	99.8	90 - 110	
66	Zn	72	1	49.65	ppb	0.81	50	99.3	90 - 110	
75	As	72	1	50.28	ppb	0.18	50	100.6	90 - 110	
78	Se	72	1	50.93	ppb	0.65	50	101.9	90 - 110	
95	Mo	72	1	49.05	ppb	0.52	50	98.1	90 - 110	
107	Ag	115	1	50.27	ppb	0.72	50	100.5	90 - 110	
111	Cd	115	1	49.46	ppb	0.60	50	98.9	90 - 110	
118	Sn	115	1	48.99	ppb	1.91	50	98.0	90 - 110	
121	Sb	115	1	49.17	ppb	1.28	50	98.3	90 - 110	
137	Ba	115	1	50.13	ppb	1.19	50	100.3	90 - 110	
205	Tl	165	1	49.43	ppb	0.87	50	98.9	90 - 110	
208	Pb	165	1	49.08	ppb	0.73	50	98.2	90 - 110	
232	Th	165	1	48.70	ppb	1.43	50	97.4	90 - 110	
238	U	165	1	47.78	ppb	1.30	50	95.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	547478	0.28	543374	100.8	30 - 120	
45	Sc	1	2827623	0.56	2604595	108.6	30 - 120	
72	Ge	1	1722792	0.26	1574612	109.4	30 - 120	
115	In	1	4637911	0.26	4299749	107.9	30 - 120	
165	Ho	1	8845443	0.81	8578931	103.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\063_CCB.D\063_CCB.D#
Date Acquired:	Nov 7 2011 10:45 pm
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.016	ppb	44.12	1.00	
51	V	72	1	0.007	ppb	243.19	1.00	
52	Cr	72	1	-0.021	ppb	43.96	1.00	
55	Mn	72	1	0.011	ppb	73.29	1.00	
59	Co	72	1	0.004	ppb	96.06	1.00	
60	Ni	72	1	0.012	ppb	87.24	1.00	
63	Cu	72	1	0.007	ppb	67.75	1.00	
66	Zn	72	1	0.065	ppb	19.87	1.00	
75	As	72	1	0.007	ppb	107.05	1.00	
78	Se	72	1	0.272	ppb	49.36	1.00	
95	Mo	72	1	-0.018	ppb	42.64	1.00	
107	Ag	115	1	0.007	ppb	43.56	1.00	
111	Cd	115	1	0.004	ppb	134.36	1.00	
118	Sn	115	1	0.029	ppb	17.65	1.00	
121	Sb	115	1	0.012	ppb	24.55	1.00	
137	Ba	115	1	0.006	ppb	13.57	1.00	
205	Tl	165	1	0.011	ppb	18.69	1.00	
208	Pb	165	1	0.007	ppb	12.59	1.00	
232	Th	165	1	0.027	ppb	6.52	1.00	
238	U	165	1	0.007	ppb	13.87	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	550368	1.60	543374	101.3	30 - 120	
45	Sc	1	2820661	2.27	2604595	108.3	30 - 120	
72	Ge	1	1706790	0.42	1574612	108.4	30 - 120	
115	In	1	4633977	1.37	4299749	107.8	30 - 120	
165	Ho	1	8807240	1.64	8578931	102.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures | 0 :Max. Number of Failures Allowed
0 :ISTD Failures | 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\064WASH.D\064WASH.D#
Date Acquired: Nov 7 2011 10:48 pm
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.174	ppb	9.25	1.30	
51	V	72	1	5.053	ppb	0.79	6.50	
52	Cr	72	1	2.206	ppb	0.52	2.60	
55	Mn	72	1	1.218	ppb	1.49	1.30	
59	Co	72	1	1.104	ppb	1.69	1.30	
60	Ni	72	1	2.229	ppb	1.92	2.60	
63	Cu	72	1	2.204	ppb	1.41	2.60	
66	Zn	72	1	10.520	ppb	1.31	13.00	
75	As	72	1	5.248	ppb	1.17	6.50	
78	Se	72	1	5.790	ppb	1.80	6.50	
95	Mo	72	1	2.090	ppb	3.73	2.60	
107	Ag	115	1	5.076	ppb	1.89	6.50	
111	Cd	115	1	1.059	ppb	3.53	1.30	
118	Sn	115	1	10.050	ppb	1.87	13.00	
121	Sb	115	1	2.036	ppb	0.28	2.60	
137	Ba	115	1	1.100	ppb	1.93	1.30	
205	Tl	165	1	1.084	ppb	0.98	1.30	
208	Pb	165	1	1.078	ppb	0.40	1.30	
232	Th	165	1	2.060	ppb	0.95	2.60	
238	U	165	1	1.036	ppb	1.97	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	553151	1.68	543374	101.8	30 - 120	
45	Sc	1	2790726	0.97	2604595	107.1	30 - 120	
72	Ge	1	1702981	1.78	1574612	108.2	30 - 120	
115	In	1	4602050	0.80	4299749	107.0	30 - 120	
165	Ho	1	8809392	0.95	8578931	102.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\065SMPL.D\065SMPL.D#
Date Acquired:	Nov 7 2011 10:51 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-39-b
Misc Info:	
Vial Number:	2412
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.14	0.14	ppb	54.46	3600	
51	V	72	1	8.43	8.43	ppb	0.82	3600	
52	Cr	72	1	3.75	3.75	ppb	1.09	3600	
55	Mn	72	1	28.00	28.00	ppb	0.56	18000	
59	Co	72	1	0.37	0.37	ppb	0.48	3600	
60	Ni	72	1	1.34	1.34	ppb	2.45	3600	
63	Cu	72	1	1.42	1.42	ppb	2.19	3600	
66	Zn	72	1	8.86	8.86	ppb	0.20	3600	
75	As	72	1	2.03	2.03	ppb	1.94	3600	
78	Se	72	1	0.69	0.69	ppb	33.29	3600	
95	Mo	72	1	0.29	0.29	ppb	3.79	3600	
107	Ag	115	1	0.02	0.02	ppb	3.61	3600	
111	Cd	115	1	0.02	0.02	ppb	21.60	3600	
118	Sn	115	1	0.08	0.08	ppb	9.71	3600	
121	Sb	115	1	0.02	0.02	ppb	20.03	3600	
137	Ba	115	1	3.79	3.79	ppb	1.34	3600	
205	Tl	165	1	0.05	0.05	ppb	2.55	3600	
208	Pb	165	1	9.67	9.67	ppb	2.29	3600	
232	Th	165	1	3.76	3.76	ppb	2.32	1000	
238	U	165	1	0.62	0.62	ppb	3.27	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	563790	0.48	543374	103.8	30 - 120	
45	Sc	1	2896167	0.72	2604595	111.2	30 - 120	
72	Ge	1	1747066	1.35	1574612	111.0	30 - 120	
115	In	1	4686891	1.19	4299749	109.0	30 - 120	
165	Ho	1	9049085	2.51	8578931	105.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\066SMPL.D\066SMPL.D#	
Date Acquired:	Nov 7 2011 10:53 pm	
Acq. Method:	NormISIS.M	**QC Summary:**
Operator:	LRD	**Analytes: Pass**
Sample Name:	280-21902-a-40-b	**ISTD: Pass**
Misc Info:		
Vial Number:	2501	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 07 2011 07:55 pm	
Sample Type:	SA	
Dilution Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	15.78	3600	
51	V	72	1	11.72	11.72	ppb	1.13	3600	
52	Cr	72	1	5.93	5.93	ppb	3.16	3600	
55	Mn	72	1	29.26	29.26	ppb	1.71	18000	
59	Co	72	1	0.71	0.71	ppb	0.93	3600	
60	Ni	72	1	2.71	2.71	ppb	2.12	3600	
63	Cu	72	1	1.41	1.41	ppb	1.93	3600	
66	Zn	72	1	11.51	11.51	ppb	0.30	3600	
75	As	72	1	2.51	2.51	ppb	1.18	3600	
78	Se	72	1	0.91	0.91	ppb	17.42	3600	
95	Mo	72	1	0.32	0.32	ppb	5.73	3600	
107	Ag	115	1	0.02	0.02	ppb	8.97	3600	
111	Cd	115	1	0.02	0.02	ppb	20.45	3600	
118	Sn	115	1	0.10	0.10	ppb	6.32	3600	
121	Sb	115	1	0.01	0.01	ppb	13.37	3600	
137	Ba	115	1	5.33	5.33	ppb	0.95	3600	
205	Tl	165	1	0.06	0.06	ppb	3.31	3600	
208	Pb	165	1	6.59	6.59	ppb	1.08	3600	
232	Th	165	1	4.09	4.09	ppb	1.43	1000	
238	U	165	1	0.61	0.61	ppb	0.33	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	565725	0.58	543374	104.1	30 - 120	
45	Sc	1	2874549	1.70	2604595	110.4	30 - 120	
72	Ge	1	1747997	0.52	1574612	111.0	30 - 120	
115	In	1	4677093	1.29	4299749	108.8	30 - 120	
165	Ho	1	8984665	0.71	8578931	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\067SMPL.D\067SMPL.D#
Date Acquired:	Nov 7 2011 10:56 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-41-d
Misc Info:	
Vial Number:	2502
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.18	0.18	ppb	42.17	3600	
51	V	72	1	13.04	13.04	ppb	2.06	3600	
52	Cr	72	1	5.48	5.48	ppb	1.68	3600	
55	Mn	72	1	51.48	51.48	ppb	0.81	18000	
59	Co	72	1	0.79	0.79	ppb	3.02	3600	
60	Ni	72	1	1.97	1.97	ppb	2.09	3600	
63	Cu	72	1	1.63	1.63	ppb	2.86	3600	
66	Zn	72	1	10.09	10.09	ppb	0.88	3600	
75	As	72	1	2.50	2.50	ppb	1.94	3600	
78	Se	72	1	0.98	0.98	ppb	41.20	3600	
95	Mo	72	1	0.42	0.42	ppb	1.84	3600	
107	Ag	115	1	0.03	0.03	ppb	15.51	3600	
111	Cd	115	1	0.02	0.02	ppb	31.24	3600	
118	Sn	115	1	0.10	0.10	ppb	5.34	3600	
121	Sb	115	1	0.02	0.02	ppb	10.09	3600	
137	Ba	115	1	4.24	4.24	ppb	0.69	3600	
205	Tl	165	1	0.08	0.08	ppb	2.06	3600	
208	Pb	165	1	9.21	9.21	ppb	0.18	3600	
232	Th	165	1	4.55	4.55	ppb	0.54	1000	
238	U	165	1	0.77	0.77	ppb	2.75	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	568932	0.66	543374	104.7	30 - 120	
45	Sc	1	2861987	2.18	2604595	109.9	30 - 120	
72	Ge	1	1731517	1.72	1574612	110.0	30 - 120	
115	In	1	4636875	0.99	4299749	107.8	30 - 120	
165	Ho	1	8913264	1.35	8578931	103.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\068SMPL.D\068SMPL.D#
Date Acquired: Nov 7 2011 10:59 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-42-d
Misc Info:
Vial Number: 2503
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.32	0.32	ppb	15.32	3600	
51	V	72	1	18.98	18.98	ppb	0.71	3600	
52	Cr	72	1	10.02	10.02	ppb	1.01	3600	
55	Mn	72	1	65.22	65.22	ppb	1.39	18000	
59	Co	72	1	1.22	1.22	ppb	2.40	3600	
60	Ni	72	1	4.71	4.71	ppb	4.61	3600	
63	Cu	72	1	2.19	2.19	ppb	1.39	3600	
66	Zn	72	1	12.61	12.61	ppb	1.11	3600	
75	As	72	1	3.28	3.28	ppb	1.66	3600	
78	Se	72	1	0.72	0.72	ppb	5.56	3600	
95	Mo	72	1	0.48	0.48	ppb	1.49	3600	
107	Ag	115	1	0.02	0.02	ppb	12.13	3600	
111	Cd	115	1	0.03	0.03	ppb	51.48	3600	
118	Sn	115	1	0.14	0.14	ppb	12.75	3600	
121	Sb	115	1	0.01	0.01	ppb	11.35	3600	
137	Ba	115	1	7.53	7.53	ppb	3.46	3600	
205	Tl	165	1	0.11	0.11	ppb	3.76	3600	
208	Pb	165	1	7.76	7.76	ppb	1.86	3600	
232	Th	165	1	4.62	4.62	ppb	0.88	1000	
238	U	165	1	0.66	0.66	ppb	1.86	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	563545	0.85	543374	103.7	30 - 120	
45	Sc	1	2859531	0.61	2604595	109.8	30 - 120	
72	Ge	1	1745417	0.58	1574612	110.8	30 - 120	
115	In	1	4608672	2.06	4299749	107.2	30 - 120	
165	Ho	1	8971633	1.56	8578931	104.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\069SMPL.D\069SMPL.D#
Date Acquired: Nov 7 2011 11:02 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-43-b
Misc Info:
Vial Number: 2504
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.25	0.25	ppb	9.03	3600	
51	V	72	1	18.96	18.96	ppb	0.80	3600	
52	Cr	72	1	8.55	8.55	ppb	1.42	3600	
55	Mn	72	1	65.64	65.64	ppb	0.45	18000	
59	Co	72	1	0.71	0.71	ppb	1.77	3600	
60	Ni	72	1	3.69	3.69	ppb	0.81	3600	
63	Cu	72	1	2.13	2.13	ppb	0.98	3600	
66	Zn	72	1	13.30	13.30	ppb	1.56	3600	
75	As	72	1	3.16	3.16	ppb	0.58	3600	
78	Se	72	1	0.57	0.57	ppb	29.16	3600	
95	Mo	72	1	0.69	0.69	ppb	6.02	3600	
107	Ag	115	1	0.02	0.02	ppb	18.40	3600	
111	Cd	115	1	0.00	0.00	ppb	41.96	3600	
118	Sn	115	1	0.11	0.11	ppb	11.40	3600	
121	Sb	115	1	0.01	0.01	ppb	13.55	3600	
137	Ba	115	1	5.17	5.17	ppb	2.02	3600	
205	Tl	165	1	0.09	0.09	ppb	5.24	3600	
208	Pb	165	1	11.03	11.03	ppb	1.76	3600	
232	Th	165	1	4.74	4.74	ppb	1.50	1000	
238	U	165	1	0.75	0.75	ppb	1.41	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	562124	1.00	543374	103.5	30 - 120	
45	Sc	1	2894748	1.23	2604595	111.1	30 - 120	
72	Ge	1	1726023	1.13	1574612	109.6	30 - 120	
115	In	1	4715833	0.20	4299749	109.7	30 - 120	
165	Ho	1	8982869	0.81	8578931	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\070SMPL.D\070SMPL.D#
Date Acquired:	Nov 7 2011 11:05 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-44-d
Misc Info:	
Vial Number:	2505
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.39	0.39	ppb	29.29	3600	
51	V	72	1	22.58	22.58	ppb	0.38	3600	
52	Cr	72	1	16.39	16.39	ppb	0.71	3600	
55	Mn	72	1	77.95	77.95	ppb	2.12	18000	
59	Co	72	1	1.66	1.66	ppb	1.21	3600	
60	Ni	72	1	8.85	8.85	ppb	0.85	3600	
63	Cu	72	1	3.20	3.20	ppb	0.77	3600	
66	Zn	72	1	20.08	20.08	ppb	0.50	3600	
75	As	72	1	4.54	4.54	ppb	0.83	3600	
78	Se	72	1	1.16	1.16	ppb	27.66	3600	
95	Mo	72	1	0.79	0.79	ppb	2.09	3600	
107	Ag	115	1	0.03	0.03	ppb	5.78	3600	
111	Cd	115	1	0.03	0.03	ppb	61.86	3600	
118	Sn	115	1	0.14	0.14	ppb	3.11	3600	
121	Sb	115	1	0.01	0.01	ppb	6.89	3600	
137	Ba	115	1	7.44	7.44	ppb	3.09	3600	
205	Tl	165	1	0.10	0.10	ppb	1.53	3600	
208	Pb	165	1	8.60	8.60	ppb	1.20	3600	
232	Th	165	1	6.49	6.49	ppb	0.45	1000	
238	U	165	1	0.92	0.92	ppb	0.42	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	556407	0.47	543374	102.4	30 - 120	
45	Sc	1	2822338	1.04	2604595	108.4	30 - 120	
72	Ge	1	1735299	0.71	1574612	110.2	30 - 120	
115	In	1	4648276	1.27	4299749	108.1	30 - 120	
165	Ho	1	8867589	1.50	8578931	103.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\071SMPL.D\071SMPL.D#
Date Acquired:	Nov 7 2011 11:08 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-45-b
Misc Info:	
Vial Number:	2506
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.18	0.18	ppb	27.56	3600	
51	V	72	1	14.29	14.29	ppb	3.36	3600	
52	Cr	72	1	6.52	6.52	ppb	3.16	3600	
55	Mn	72	1	47.27	47.27	ppb	2.78	18000	
59	Co	72	1	0.67	0.67	ppb	3.42	3600	
60	Ni	72	1	2.55	2.55	ppb	3.73	3600	
63	Cu	72	1	1.92	1.92	ppb	1.49	3600	
66	Zn	72	1	10.43	10.43	ppb	1.34	3600	
75	As	72	1	2.76	2.76	ppb	3.33	3600	
78	Se	72	1	1.26	1.26	ppb	10.09	3600	
95	Mo	72	1	0.50	0.50	ppb	3.72	3600	
107	Ag	115	1	0.03	0.03	ppb	10.63	3600	
111	Cd	115	1	0.02	0.02	ppb	30.92	3600	
118	Sn	115	1	0.09	0.09	ppb	2.37	3600	
121	Sb	115	1	0.01	0.01	ppb	23.06	3600	
137	Ba	115	1	4.68	4.68	ppb	1.09	3600	
205	Tl	165	1	0.08	0.08	ppb	2.17	3600	
208	Pb	165	1	15.09	15.09	ppb	1.63	3600	
232	Th	165	1	7.98	7.98	ppb	2.70	1000	
238	U	165	1	1.18	1.18	ppb	2.55	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	555686	0.26	543374	102.3	30 - 120	
45	Sc	1	2870858	0.12	2604595	110.2	30 - 120	
72	Ge	1	1719876	1.06	1574612	109.2	30 - 120	
115	In	1	4664159	0.74	4299749	108.5	30 - 120	
165	Ho	1	8965170	1.07	8578931	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\072SMPL.D\072SMPL.D#
Date Acquired:	Nov 7 2011 11:11 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-46-b
Misc Info:	
Vial Number:	2507
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	22.87	3600	
51	V	72	1	19.75	19.75	ppb	12.49	3600	
52	Cr	72	1	10.88	10.88	ppb	13.10	3600	
55	Mn	72	1	69.10	69.10	ppb	14.37	18000	
59	Co	72	1	1.27	1.27	ppb	14.08	3600	
60	Ni	72	1	4.83	4.83	ppb	12.00	3600	
63	Cu	72	1	2.28	2.28	ppb	12.84	3600	
66	Zn	72	1	14.58	14.58	ppb	12.41	3600	
75	As	72	1	3.69	3.69	ppb	14.20	3600	
78	Se	72	1	1.20	1.20	ppb	29.70	3600	
95	Mo	72	1	0.48	0.48	ppb	16.70	3600	
107	Ag	115	1	0.02	0.02	ppb	29.53	3600	
111	Cd	115	1	0.04	0.04	ppb	27.79	3600	
118	Sn	115	1	0.15	0.15	ppb	10.15	3600	
121	Sb	115	1	0.01	0.01	ppb	20.10	3600	
137	Ba	115	1	6.46	6.46	ppb	16.67	3600	
205	Tl	165	1	0.09	0.09	ppb	18.60	3600	
208	Pb	165	1	12.56	12.56	ppb	17.47	3600	
232	Th	165	1	7.34	7.34	ppb	17.60	1000	
238	U	165	1	1.08	1.08	ppb	17.24	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	549540	11.67	543374	101.1	30 - 120	
45	Sc	1	2842918	14.66	2604595	109.2	30 - 120	
72	Ge	1	1712064	11.45	1574612	108.7	30 - 120	
115	In	1	4664146	15.97	4299749	108.5	30 - 120	
165	Ho	1	8866740	16.07	8578931	103.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\073_CCV.D\073_CCV.D#
Date Acquired:	Nov 7 2011 11:14 pm
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.43	ppb	1.99	50	104.9	90 - 110	
51	V	72	1	50.51	ppb	1.91	50	101.0	90 - 110	
52	Cr	72	1	50.02	ppb	3.13	50	100.0	90 - 110	
55	Mn	72	1	49.60	ppb	2.83	50	99.2	90 - 110	
59	Co	72	1	49.70	ppb	2.13	50	99.4	90 - 110	
60	Ni	72	1	48.86	ppb	1.68	50	97.7	90 - 110	
63	Cu	72	1	49.30	ppb	1.80	50	98.6	90 - 110	
66	Zn	72	1	49.49	ppb	0.69	50	99.0	90 - 110	
75	As	72	1	49.63	ppb	0.55	50	99.3	90 - 110	
78	Se	72	1	51.15	ppb	4.25	50	102.3	90 - 110	
95	Mo	72	1	48.37	ppb	0.84	50	96.7	90 - 110	
107	Ag	115	1	50.21	ppb	2.51	50	100.4	90 - 110	
111	Cd	115	1	49.28	ppb	0.78	50	98.6	90 - 110	
118	Sn	115	1	48.73	ppb	1.34	50	97.5	90 - 110	
121	Sb	115	1	48.74	ppb	1.46	50	97.5	90 - 110	
137	Ba	115	1	50.05	ppb	1.19	50	100.1	90 - 110	
205	Tl	165	1	49.86	ppb	0.74	50	99.7	90 - 110	
208	Pb	165	1	48.84	ppb	0.73	50	97.7	90 - 110	
232	Th	165	1	48.20	ppb	1.72	50	96.4	90 - 110	
238	U	165	1	47.91	ppb	2.18	50	95.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	545960	1.07	543374	100.5	30 - 120	
45	Sc	1	2821313	0.32	2604595	108.3	30 - 120	
72	Ge	1	1744991	0.44	1574612	110.8	30 - 120	
115	In	1	4671928	1.63	4299749	108.7	30 - 120	
165	Ho	1	8888540	1.18	8578931	103.6	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\074_CCB.D\074_CCB.D#
Date Acquired: Nov 7 2011 11:17 pm
Operator: LRD
Sample Name: CCB-1116509
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	58.47	1.00	
51	V	72	1	-0.001	ppb	235.57	1.00	
52	Cr	72	1	-0.027	ppb	23.83	1.00	
55	Mn	72	1	0.002	ppb	226.37	1.00	
59	Co	72	1	0.002	ppb	145.94	1.00	
60	Ni	72	1	0.013	ppb	79.77	1.00	
63	Cu	72	1	0.017	ppb	43.90	1.00	
66	Zn	72	1	0.067	ppb	19.53	1.00	
75	As	72	1	0.004	ppb	97.99	1.00	
78	Se	72	1	0.446	ppb	61.07	1.00	
95	Mo	72	1	-0.026	ppb	22.60	1.00	
107	Ag	115	1	0.007	ppb	40.22	1.00	
111	Cd	115	1	0.003	ppb	165.46	1.00	
118	Sn	115	1	0.033	ppb	12.62	1.00	
121	Sb	115	1	0.011	ppb	12.92	1.00	
137	Ba	115	1	0.004	ppb	45.71	1.00	
205	Tl	165	1	0.017	ppb	11.31	1.00	
208	Pb	165	1	0.009	ppb	12.51	1.00	
232	Th	165	1	0.030	ppb	7.20	1.00	
238	U	165	1	0.007	ppb	13.21	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	549413	1.53	543374	101.1	30 - 120	
45	Sc	1	2812459	0.93	2604595	108.0	30 - 120	
72	Ge	1	1734782	0.50	1574612	110.2	30 - 120	
115	In	1	4661910	1.08	4299749	108.4	30 - 120	
165	Ho	1	8867812	1.87	8578931	103.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\075WASH.D\075WASH.D#
Date Acquired: Nov 7 2011 11:20 pm
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.226 ppb	20.09	1.30	
51	V	72	1	5.107 ppb	1.35	6.50	
52	Cr	72	1	2.195 ppb	1.41	2.60	
55	Mn	72	1	1.192 ppb	2.90	1.30	
59	Co	72	1	1.080 ppb	3.36	1.30	
60	Ni	72	1	2.222 ppb	1.74	2.60	
63	Cu	72	1	2.168 ppb	3.04	2.60	
66	Zn	72	1	10.420 ppb	0.95	13.00	
75	As	72	1	5.183 ppb	2.55	6.50	
78	Se	72	1	5.537 ppb	4.52	6.50	
95	Mo	72	1	2.075 ppb	2.91	2.60	
107	Ag	115	1	5.040 ppb	2.07	6.50	
111	Cd	115	1	1.069 ppb	0.41	1.30	
118	Sn	115	1	9.915 ppb	0.72	13.00	
121	Sb	115	1	2.044 ppb	0.49	2.60	
137	Ba	115	1	1.114 ppb	2.82	1.30	
205	Tl	165	1	1.085 ppb	0.25	1.30	
208	Pb	165	1	1.068 ppb	1.26	1.30	
232	Th	165	1	2.042 ppb	1.58	2.60	
238	U	165	1	1.027 ppb	0.67	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	554125	0.99	543374	102.0	30 - 120	
45	Sc	1	2846266	1.60	2604595	109.3	30 - 120	
72	Ge	1	1727073	0.66	1574612	109.7	30 - 120	
115	In	1	4676825	1.56	4299749	108.8	30 - 120	
165	Ho	1	8863667	0.59	8578931	103.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\076AREF.D\076AREF.D#
Date Acquired:	Nov 7 2011 11:23 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-52-b
Misc Info:	
Vial Number:	2508
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.38	0.38	ppb	5.70	3600	
51	V	72	1	23.03	23.03	ppb	2.66	3600	
52	Cr	72	1	14.84	14.84	ppb	2.72	3600	
55	Mn	72	1	65.29	65.29	ppb	2.15	18000	
59	Co	72	1	1.81	1.81	ppb	1.26	3600	
60	Ni	72	1	7.41	7.41	ppb	0.72	3600	
63	Cu	72	1	2.57	2.57	ppb	1.66	3600	
66	Zn	72	1	15.67	15.67	ppb	2.09	3600	
75	As	72	1	5.01	5.01	ppb	2.57	3600	
78	Se	72	1	1.74	1.74	ppb	14.94	3600	
95	Mo	72	1	0.64	0.64	ppb	4.28	3600	
107	Ag	115	1	0.03	0.03	ppb	9.90	3600	
111	Cd	115	1	0.03	0.03	ppb	51.39	3600	
118	Sn	115	1	0.23	0.23	ppb	7.15	3600	
121	Sb	115	1	0.02	0.02	ppb	10.53	3600	
137	Ba	115	1	8.54	8.54	ppb	1.52	3600	
205	Tl	165	1	0.11	0.11	ppb	0.21	3600	
208	Pb	165	1	8.08	8.08	ppb	0.18	3600	
232	Th	165	1	12.65	12.65	ppb	0.40	1000	
238	U	165	1	1.82	1.82	ppb	0.75	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	558246	1.12	543374	102.7	30 - 120	
45	Sc	1	2864909	2.84	2604595	110.0	30 - 120	
72	Ge	1	1752543	0.94	1574612	111.3	30 - 120	
115	In	1	4674684	1.39	4299749	108.7	30 - 120	
165	Ho	1	8878559	0.45	8578931	103.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\077SDIL.D\077SDIL.D#
Date Acquired: Nov 7 2011 11:26 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-52-b SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2509
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110711.B\076AREF.D\076AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)			Flag
9	Be	6	1	0.06	ppb	40.14	0.08	81.3	90	-	110	
51	V	72	1	4.51	ppb	0.69	4.61	97.9	90	-	110	
52	Cr	72	1	2.91	ppb	1.22	2.97	98.2	90	-	110	
55	Mn	72	1	12.68	ppb	2.77	13.06	97.1	90	-	110	
59	Co	72	1	0.36	ppb	0.62	0.36	101.0	90	-	110	
60	Ni	72	1	1.48	ppb	3.46	1.48	99.6	90	-	110	
63	Cu	72	1	0.49	ppb	5.35	0.51	94.8	90	-	110	
66	Zn	72	1	3.16	ppb	1.22	3.13	100.7	90	-	110	
75	As	72	1	1.01	ppb	3.69	1.00	101.2	90	-	110	
78	Se	72	1	0.64	ppb	26.30	0.35	184.0	90	-	110	
95	Mo	72	1	0.10	ppb	12.56	0.13	79.9	90	-	110	
107	Ag	115	1	0.01	ppb	49.57	0.01	124.6	90	-	110	
111	Cd	115	1	0.00	ppb	456.54	0.01	17.0	90	-	110	
118	Sn	115	1	0.12	ppb	11.68	0.05	264.8	90	-	110	
121	Sb	115	1	0.02	ppb	7.61	0.00	575.6	90	-	110	
137	Ba	115	1	1.72	ppb	2.69	1.71	100.6	90	-	110	
205	Tl	165	1	0.02	ppb	4.53	0.02	102.9	90	-	110	
208	Pb	165	1	1.57	ppb	0.12	1.62	96.8	90	-	110	
232	Th	165	1	2.43	ppb	1.06	2.53	95.9	90	-	110	
238	U	165	1	0.36	ppb	2.11	0.36	97.9	90	-	110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	561036	0.90	543374	103.3	30	-	120	
45	Sc	1	2880201	1.31	2604595	110.6	30	-	120	
72	Ge	1	1750521	2.24	1574612	111.2	30	-	120	
115	In	1	4694242	0.32	4299749	109.2	30	-	120	
165	Ho	1	9000084	0.38	8578931	104.9	30	-	120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\078PDS.D\078PDS.D#		
Date Acquired:	Nov 7 2011 11:29 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	LRD	ISTD:	Pass
Sample Name:	280-21902-a-52-b PDS		
Misc Info:	POST DIGESTION SPIKE		
Vial Number:	2510		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 07 2011 07:55 pm		
Sample Type:	PDS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	203.20	0.38	ppb	1.80	200	101.4	75 - 125	
51 V	72	1	212.30	23.03	ppb	1.40	200	95.2	75 - 125	
52 Cr	72	1	207.10	14.84	ppb	1.15	200	96.4	75 - 125	
55 Mn	72	1	252.40	65.29	ppb	0.27	200	95.1	75 - 125	
59 Co	72	1	191.50	1.81	ppb	0.21	200	94.9	75 - 125	
60 Ni	72	1	203.80	7.41	ppb	1.61	200	98.3	75 - 125	
63 Cu	72	1	188.60	2.57	ppb	1.98	200	93.1	75 - 125	
66 Zn	72	1	204.10	15.67	ppb	0.51	200	94.6	75 - 125	
75 As	72	1	201.90	5.01	ppb	0.49	200	98.5	75 - 125	
78 Se	72	1	198.90	1.74	ppb	2.64	200	98.6	75 - 125	
95 Mo	72	1	197.10	0.64	ppb	0.59	200	98.2	75 - 125	
107 Ag	115	1	49.12	0.03	ppb	0.58	50	98.2	75 - 125	
111 Cd	115	1	197.00	0.03	ppb	0.87	200	98.5	75 - 125	
118 Sn	115	1	195.30	0.23	ppb	1.19	200	97.5	75 - 125	
121 Sb	115	1	195.60	0.02	ppb	0.67	200	97.8	75 - 125	
137 Ba	115	1	209.60	8.54	ppb	0.88	200	100.5	75 - 125	
205 Tl	165	1	190.30	0.11	ppb	0.54	200	95.1	75 - 125	
208 Pb	165	1	194.90	8.08	ppb	0.56	200	93.7	75 - 125	
232 Th	165	1	12.02	12.65	ppb	0.78	200	5.7	75 - 125	
238 U	165	1	186.00	1.82	ppb	1.37	200	92.2	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	558434	0.64	543374	102.8	30 - 120	
45 Sc	1	2810308	0.79	2604595	107.9	30 - 120	
72 Ge	1	1709505	0.35	1574612	108.6	30 - 120	
115 In	1	4590325	0.50	4299749	106.8	30 - 120	
165 Ho	1	8817660	0.93	8578931	102.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\079_MS.D\079_MS.D#		
Date Acquired:	Nov 7 2011 11:31 pm	**QC Summary:**	
Acq. Method:	NormISIS.M	**Analytes:**	**Pass**
Operator:	LRD	**ISTD:**	**Pass**
Sample Name:	280-21902-a-52-c ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	2511		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 07 2011 07:55 pm		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	43.22	0.38	ppb	2.19	40	107.0	50 - 150	
51	V	72	1	65.82	23.03	ppb	1.77	40	104.4	50 - 150	
52	Cr	72	1	56.46	14.84	ppb	1.64	40	103.0	50 - 150	
55	Mn	72	1	99.58	65.29	ppb	0.69	40	94.6	50 - 150	
59	Co	72	1	43.22	1.81	ppb	1.19	40	103.4	50 - 150	
60	Ni	72	1	47.31	7.41	ppb	0.61	40	99.8	50 - 150	
63	Cu	72	1	42.54	2.57	ppb	0.67	40	99.9	50 - 150	
66	Zn	72	1	55.76	15.67	ppb	1.21	40	100.2	50 - 150	
75	As	72	1	44.54	5.01	ppb	0.63	40	99.0	50 - 150	
78	Se	72	1	42.11	1.74	ppb	5.41	40	100.9	50 - 150	
95	Mo	72	1	37.29	0.64	ppb	0.56	40	91.8	50 - 150	
107	Ag	115	1	40.63	0.03	ppb	1.86	40	101.5	50 - 150	
111	Cd	115	1	40.32	0.03	ppb	0.37	40	100.7	50 - 150	
118	Sn	115	1	11.86	0.23	ppb	0.99	40	29.5	50 - 150	
121	Sb	115	1	5.62	0.02	ppb	0.50	40	14.0	50 - 150	
137	Ba	115	1	50.03	8.54	ppb	0.47	40	103.1	50 - 150	
205	Tl	165	1	41.38	0.11	ppb	0.02	40	103.2	50 - 150	
208	Pb	165	1	48.10	8.08	ppb	0.13	40	100.0	50 - 150	
232	Th	165	1	50.53	12.65	ppb	1.04	40	96.0	50 - 150	
238	U	165	1	40.93	1.82	ppb	0.95	40	97.9	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	557651	0.95	543374	102.6	30 - 120	
45	Sc	1	2854714	1.10	2604595	109.6	30 - 120	
72	Ge	1	1723251	0.89	1574612	109.4	30 - 120	
115	In	1	4684508	0.83	4299749	108.9	30 - 120	
165	Ho	1	9012627	0.72	8578931	105.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\080_MSD.D\080_MSD.D#
Date Acquired: Nov 7 2011 11:34 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-52-d msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 2512
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110711.B\079_MS.D\079_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	43.37	ppb	1.17	43.22	0.35	20	
51	V	72	1	64.34	ppb	1.91	65.82	2.27	20	
52	Cr	72	1	56.09	ppb	0.75	56.46	0.66	20	
55	Mn	72	1	95.77	ppb	0.43	99.58	3.90	20	
59	Co	72	1	42.66	ppb	0.49	43.22	1.30	20	
60	Ni	72	1	46.58	ppb	0.62	47.31	1.56	20	
63	Cu	72	1	41.35	ppb	0.93	42.54	2.84	20	
66	Zn	72	1	53.99	ppb	1.03	55.76	3.23	20	
75	As	72	1	44.09	ppb	0.55	44.54	1.02	20	
78	Se	72	1	41.79	ppb	2.78	42.11	0.76	20	
95	Mo	72	1	38.27	ppb	1.88	37.29	2.59	20	
107	Ag	115	1	40.10	ppb	1.79	40.63	1.31	20	
111	Cd	115	1	40.49	ppb	1.04	40.32	0.42	20	
118	Sn	115	1	12.13	ppb	1.10	11.86	2.25	20	
121	Sb	115	1	5.58	ppb	1.17	5.62	0.70	20	
137	Ba	115	1	50.09	ppb	1.63	50.03	0.12	20	
205	Tl	165	1	40.71	ppb	0.79	41.38	1.63	20	
208	Pb	165	1	47.61	ppb	0.95	48.10	1.02	20	
232	Th	165	1	49.85	ppb	0.13	50.53	1.35	20	
238	U	165	1	41.10	ppb	1.12	40.93	0.41	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	560616	1.03	543374	103.2	30 - 120	
45	Sc	1	2888981	1.73	2604595	110.9	30 - 120	
72	Ge	1	1735295	0.43	1574612	110.2	30 - 120	
115	In	1	4666866	1.69	4299749	108.5	30 - 120	
165	Ho	1	8984948	0.20	8578931	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\081SMPL.D\081SMPL.D#
Date Acquired: Nov 7 2011 11:37 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-47-d
Misc Info:
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.26	0.26	ppb	26.42	3600	
51	V	72	1	12.50	12.50	ppb	0.67	3600	
52	Cr	72	1	6.90	6.90	ppb	1.32	3600	
55	Mn	72	1	37.05	37.05	ppb	0.56	18000	
59	Co	72	1	0.80	0.80	ppb	1.26	3600	
60	Ni	72	1	3.04	3.04	ppb	0.54	3600	
63	Cu	72	1	1.88	1.88	ppb	0.25	3600	
66	Zn	72	1	10.51	10.51	ppb	0.27	3600	
75	As	72	1	2.87	2.87	ppb	1.61	3600	
78	Se	72	1	1.36	1.36	ppb	18.62	3600	
95	Mo	72	1	0.27	0.27	ppb	7.89	3600	
107	Ag	115	1	0.03	0.03	ppb	3.87	3600	
111	Cd	115	1	0.03	0.03	ppb	16.56	3600	
118	Sn	115	1	0.11	0.11	ppb	15.99	3600	
121	Sb	115	1	0.02	0.02	ppb	21.68	3600	
137	Ba	115	1	6.70	6.70	ppb	2.76	3600	
205	Tl	165	1	0.09	0.09	ppb	3.56	3600	
208	Pb	165	1	6.78	6.78	ppb	1.53	3600	
232	Th	165	1	8.19	8.19	ppb	1.94	1000	
238	U	165	1	1.01	1.01	ppb	2.30	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	565117	1.25	543374	104.0	30 - 120	
45	Sc	1	2894431	1.79	2604595	111.1	30 - 120	
72	Ge	1	1746173	0.50	1574612	110.9	30 - 120	
115	In	1	4743210	1.15	4299749	110.3	30 - 120	
165	Ho	1	9028387	0.94	8578931	105.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\082SMPL.D\082SMPL.D#
Date Acquired:	Nov 7 2011 11:40 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-48-b
Misc Info:	
Vial Number:	3102
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.22	0.22	ppb	11.80	3600	
51	V	72	1	10.89	10.89	ppb	1.90	3600	
52	Cr	72	1	5.23	5.23	ppb	2.27	3600	
55	Mn	72	1	55.60	55.60	ppb	1.78	18000	
59	Co	72	1	0.58	0.58	ppb	0.86	3600	
60	Ni	72	1	2.21	2.21	ppb	2.32	3600	
63	Cu	72	1	2.29	2.29	ppb	1.07	3600	
66	Zn	72	1	11.78	11.78	ppb	0.77	3600	
75	As	72	1	2.60	2.60	ppb	3.05	3600	
78	Se	72	1	1.10	1.10	ppb	18.33	3600	
95	Mo	72	1	0.38	0.38	ppb	3.71	3600	
107	Ag	115	1	0.04	0.04	ppb	23.64	3600	
111	Cd	115	1	0.04	0.04	ppb	9.97	3600	
118	Sn	115	1	0.09	0.09	ppb	5.75	3600	
121	Sb	115	1	0.02	0.02	ppb	5.91	3600	
137	Ba	115	1	6.16	6.16	ppb	1.76	3600	
205	Tl	165	1	0.07	0.07	ppb	0.44	3600	
208	Pb	165	1	12.38	12.38	ppb	1.98	3600	
232	Th	165	1	5.70	5.70	ppb	3.00	1000	
238	U	165	1	0.90	0.90	ppb	1.38	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	558117	0.82	543374	102.7	30 - 120	
45	Sc	1	2907127	1.49	2604595	111.6	30 - 120	
72	Ge	1	1756528	0.75	1574612	111.6	30 - 120	
115	In	1	4717954	1.21	4299749	109.7	30 - 120	
165	Ho	1	9036724	1.02	8578931	105.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\083_CCV.D\083_CCV.D#
Date Acquired:	Nov 7 2011 11:43 pm
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.12	ppb	1.31	50	102.2	90 - 110	
51	V	72	1	51.56	ppb	0.88	50	103.1	90 - 110	
52	Cr	72	1	51.39	ppb	0.38	50	102.8	90 - 110	
55	Mn	72	1	51.16	ppb	0.68	50	102.3	90 - 110	
59	Co	72	1	50.80	ppb	0.95	50	101.6	90 - 110	
60	Ni	72	1	49.84	ppb	0.76	50	99.7	90 - 110	
63	Cu	72	1	49.82	ppb	0.52	50	99.6	90 - 110	
66	Zn	72	1	50.06	ppb	0.24	50	100.1	90 - 110	
75	As	72	1	50.72	ppb	1.57	50	101.4	90 - 110	
78	Se	72	1	52.24	ppb	1.28	50	104.5	90 - 110	
95	Mo	72	1	49.36	ppb	0.95	50	98.7	90 - 110	
107	Ag	115	1	50.70	ppb	0.32	50	101.4	90 - 110	
111	Cd	115	1	49.41	ppb	1.12	50	98.8	90 - 110	
118	Sn	115	1	48.75	ppb	0.98	50	97.5	90 - 110	
121	Sb	115	1	49.24	ppb	1.15	50	98.5	90 - 110	
137	Ba	115	1	50.37	ppb	0.95	50	100.7	90 - 110	
205	Tl	165	1	49.68	ppb	2.27	50	99.4	90 - 110	
208	Pb	165	1	48.67	ppb	1.00	50	97.3	90 - 110	
232	Th	165	1	48.17	ppb	0.95	50	96.3	90 - 110	
238	U	165	1	47.59	ppb	1.23	50	95.2	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	553153	0.49	543374	101.8	30 - 120	
45	Sc	1	2834720	1.23	2604595	108.8	30 - 120	
72	Ge	1	1715382	1.19	1574612	108.9	30 - 120	
115	In	1	4630844	0.41	4299749	107.7	30 - 120	
165	Ho	1	8906920	1.27	8578931	103.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\084_CCB.D\084_CCB.D#
Date Acquired: Nov 7 2011 11:46 pm
Operator: LRD
Sample Name: CCB-1116509
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	17207.00	1.00	
51	V	72	1	0.010	ppb	94.93	1.00	
52	Cr	72	1	-0.010	ppb	168.64	1.00	
55	Mn	72	1	0.006	ppb	121.22	1.00	
59	Co	72	1	0.003	ppb	66.67	1.00	
60	Ni	72	1	0.009	ppb	90.16	1.00	
63	Cu	72	1	0.017	ppb	43.17	1.00	
66	Zn	72	1	0.060	ppb	15.29	1.00	
75	As	72	1	0.012	ppb	23.36	1.00	
78	Se	72	1	0.413	ppb	13.30	1.00	
95	Mo	72	1	-0.024	ppb	16.90	1.00	
107	Ag	115	1	0.009	ppb	8.83	1.00	
111	Cd	115	1	0.001	ppb	1078.60	1.00	
118	Sn	115	1	0.032	ppb	19.65	1.00	
121	Sb	115	1	0.012	ppb	1.31	1.00	
137	Ba	115	1	0.005	ppb	74.56	1.00	
205	Tl	165	1	0.020	ppb	5.36	1.00	
208	Pb	165	1	0.008	ppb	4.45	1.00	
232	Th	165	1	0.032	ppb	9.55	1.00	
238	U	165	1	0.009	ppb	14.66	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552671	0.68	543374	101.7	30 - 120	
45	Sc	1	2818381	1.44	2604595	108.2	30 - 120	
72	Ge	1	1731177	0.33	1574612	109.9	30 - 120	
115	In	1	4692802	1.16	4299749	109.1	30 - 120	
165	Ho	1	8891050	0.40	8578931	103.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\085WASH.D\085WASH.D#
Date Acquired: Nov 7 2011 11:49 pm
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.022 ppb	8.46	1.30	
51	V	72	1	5.050 ppb	0.55	6.50	
52	Cr	72	1	2.212 ppb	0.91	2.60	
55	Mn	72	1	1.220 ppb	0.77	1.30	
59	Co	72	1	1.106 ppb	1.39	1.30	
60	Ni	72	1	2.292 ppb	2.29	2.60	
63	Cu	72	1	2.200 ppb	2.89	2.60	
66	Zn	72	1	10.650 ppb	0.81	13.00	
75	As	72	1	5.287 ppb	0.66	6.50	
78	Se	72	1	6.277 ppb	8.89	6.50	
95	Mo	72	1	2.126 ppb	0.55	2.60	
107	Ag	115	1	4.996 ppb	0.44	6.50	
111	Cd	115	1	1.079 ppb	2.61	1.30	
118	Sn	115	1	9.896 ppb	0.42	13.00	
121	Sb	115	1	2.012 ppb	1.28	2.60	
137	Ba	115	1	1.077 ppb	2.56	1.30	
205	Tl	165	1	1.079 ppb	2.68	1.30	
208	Pb	165	1	1.076 ppb	1.91	1.30	
232	Th	165	1	2.022 ppb	2.20	2.60	
238	U	165	1	1.028 ppb	1.87	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	558594	0.76	543374	102.8	30 - 120	
45	Sc	1	2839216	0.70	2604595	109.0	30 - 120	
72	Ge	1	1709402	1.60	1574612	108.6	30 - 120	
115	In	1	4671641	0.73	4299749	108.6	30 - 120	
165	Ho	1	8883972	0.58	8578931	103.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\086_BLK.D\086_BLK.D#
Date Acquired:	Nov 7 2011 11:52 pm
Operator:	LRD
Sample Name:	mb 280-93652/1-a
Misc Info:	BLANK 93652 Soil DoD4/6020A
Vial Number:	3103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	4094.10	2.00	
51	V	72	1	0.019	ppb	180.27	2.00	
52	Cr	72	1	0.140	ppb	78.44	2.00	
55	Mn	72	1	0.030	ppb	4.38	2.00	
59	Co	72	1	0.002	ppb	106.61	2.00	
60	Ni	72	1	0.042	ppb	0.64	2.00	
63	Cu	72	1	0.055	ppb	12.04	2.00	
66	Zn	72	1	0.132	ppb	8.29	2.00	
75	As	72	1	0.003	ppb	101.35	2.00	
78	Se	72	1	0.317	ppb	79.05	2.00	
95	Mo	72	1	-0.033	ppb	7.66	2.00	
107	Ag	115	1	0.005	ppb	11.53	2.00	
111	Cd	115	1	0.001	ppb	469.95	2.00	
118	Sn	115	1	0.077	ppb	6.82	2.00	
121	Sb	115	1	0.006	ppb	36.23	2.00	
137	Ba	115	1	0.038	ppb	4.82	2.00	
205	Tl	165	1	0.007	ppb	7.78	2.00	
208	Pb	165	1	0.017	ppb	6.02	2.00	
232	Th	165	1	0.017	ppb	5.50	2.00	
238	U	165	1	0.004	ppb	21.87	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	559541	1.14	543374	103.0	30 - 120	
45	Sc	1	2895933	2.92	2604595	111.2	30 - 120	
72	Ge	1	1752570	0.39	1574612	111.3	30 - 120	
115	In	1	4691859	2.24	4299749	109.1	30 - 120	
165	Ho	1	8962976	0.77	8578931	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\087_LCS.D\087_LCS.D#
Date Acquired:	Nov 7 2011 11:55 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-93652/2-a
Misc Info:	LCS
Vial Number:	3104
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	39.80	0.21	40	99.5	80 - 120	
51	V	72	1	39.41	1.89	40	98.5	80 - 120	
52	Cr	72	1	40.28	0.86	40	100.7	80 - 120	
55	Mn	72	1	39.22	2.75	40	98.1	80 - 120	
59	Co	72	1	39.20	0.51	40	98.0	80 - 120	
60	Ni	72	1	38.56	1.14	40	96.4	80 - 120	
63	Cu	72	1	38.20	0.56	40	95.5	80 - 120	
66	Zn	72	1	37.74	0.49	40	94.4	80 - 120	
75	As	72	1	39.01	0.93	40	97.5	80 - 120	
78	Se	72	1	40.61	1.79	40	101.5	80 - 120	
95	Mo	72	1	38.58	0.75	40	96.5	80 - 120	
107	Ag	115	1	38.63	0.61	40	96.6	80 - 120	
111	Cd	115	1	37.79	1.14	40	94.5	80 - 120	
118	Sn	115	1	38.21	1.09	40	95.5	80 - 120	
121	Sb	115	1	37.54	0.83	40	93.9	80 - 120	
137	Ba	115	1	39.13	1.26	40	97.8	80 - 120	
205	Tl	165	1	39.28	0.32	40	98.2	80 - 120	
208	Pb	165	1	38.82	0.86	40	97.1	80 - 120	
232	Th	165	1	38.20	2.12	40	95.5	80 - 120	
238	U	165	1	38.47	2.58	40	96.2	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	560298	1.23	543374	103.1	30 - 120	
45	Sc	1	2865885	1.44	2604595	110.0	30 - 120	
72	Ge	1	1731251	0.35	1574612	109.9	30 - 120	
115	In	1	4770485	1.21	4299749	110.9	30 - 120	
165	Ho	1	8933142	0.99	8578931	104.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike Duplicate Sample (LCSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\088LCSD.D\088LCSD.D#
Date Acquired: Nov 7 2011 11:57 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcsd 280-93652/3-a
Misc Info: LCSD
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: LCSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110711.B\087_LCS.D\087_LCS.D#

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9	Be	6	1	24.28 ppb	4.72	39.80	48.44	2000	
51	V	72	1	23.70 ppb	0.82	39.41	49.79	2000	
52	Cr	72	1	24.12 ppb	0.90	40.28	50.19	2000	
55	Mn	72	1	23.95 ppb	0.59	39.22	48.35	2000	
59	Co	72	1	23.81 ppb	0.39	39.20	48.85	2000	
60	Ni	72	1	24.04 ppb	0.97	38.56	46.39	2000	
63	Cu	72	1	23.81 ppb	0.31	38.20	46.41	2000	
66	Zn	72	1	23.23 ppb	0.86	37.74	47.60	2000	
75	As	72	1	23.73 ppb	0.50	39.01	48.71	2000	
78	Se	72	1	25.10 ppb	0.75	40.61	47.21	2000	
95	Mo	72	1	38.41 ppb	1.49	38.58	0.44	2000	
107	Ag	115	1	23.67 ppb	0.59	38.63	48.03	2000	
111	Cd	115	1	23.52 ppb	1.62	37.79	46.55	2000	
118	Sn	115	1	38.24 ppb	1.73	38.21	0.08	2000	
121	Sb	115	1	37.49 ppb	1.85	37.54	0.13	2000	
137	Ba	115	1	24.25 ppb	2.44	39.13	46.95	2000	
205	Tl	165	1	24.14 ppb	0.97	39.28	47.75	2000	
208	Pb	165	1	23.38 ppb	2.02	38.82	49.65	2000	
232	Th	165	1	23.39 ppb	2.30	38.20	48.09	2000	
238	U	165	1	23.69 ppb	2.49	38.47	47.55	2000	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	559873	0.35	543374	103.0	30 - 120	
45	Sc	1	2852590	1.59	2604595	109.5	30 - 120	
72	Ge	1	1714709	0.63	1574612	108.9	30 - 120	
115	In	1	4664725	1.00	4299749	108.5	30 - 120	
165	Ho	1	8901542	2.14	8578931	103.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\089AREF.D\089AREF.D#
Date Acquired:	Nov 8 2011 12:00 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-53-e
Misc Info:	
Vial Number:	3106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.40	0.40	ppb	9.83	3600	
51	V	72	1	28.03	28.03	ppb	0.40	3600	
52	Cr	72	1	13.97	13.97	ppb	0.28	3600	
55	Mn	72	1	269.90	269.90	ppb	0.92	18000	
59	Co	72	1	1.64	1.64	ppb	1.11	3600	
60	Ni	72	1	6.55	6.55	ppb	0.95	3600	
63	Cu	72	1	8.37	8.37	ppb	1.93	3600	
66	Zn	72	1	39.08	39.08	ppb	1.26	3600	
75	As	72	1	5.64	5.64	ppb	0.40	3600	
78	Se	72	1	2.00	2.00	ppb	19.51	3600	
95	Mo	72	1	1.24	1.24	ppb	3.40	3600	
107	Ag	115	1	0.10	0.10	ppb	0.90	3600	
111	Cd	115	1	0.46	0.46	ppb	2.71	3600	
118	Sn	115	1	0.21	0.21	ppb	7.29	3600	
121	Sb	115	1	0.07	0.07	ppb	6.97	3600	
137	Ba	115	1	18.27	18.27	ppb	1.46	3600	
205	Tl	165	1	0.18	0.18	ppb	1.70	3600	
208	Pb	165	1	35.14	35.14	ppb	1.52	3600	
232	Th	165	1	9.52	9.52	ppb	2.62	1000	
238	U	165	1	2.15	2.15	ppb	1.53	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	569499	1.16	543374	104.8	30 - 120	
45	Sc	1	2901099	0.45	2604595	111.4	30 - 120	
72	Ge	1	1728895	1.98	1574612	109.8	30 - 120	
115	In	1	4673432	0.78	4299749	108.7	30 - 120	
165	Ho	1	9095399	1.52	8578931	106.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\090SDIL.D\090SDIL.D#
Date Acquired: Nov 8 2011 12:03 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-53-e SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 07 2011 07:55 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110711.B\089AREF.D\089AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.11	ppb	43.88	0.08	136.2	90 - 110	
51	V	72	1	5.68	ppb	0.66	5.61	101.3	90 - 110	
52	Cr	72	1	2.87	ppb	0.36	2.79	102.5	90 - 110	
55	Mn	72	1	56.29	ppb	0.68	53.98	104.3	90 - 110	
59	Co	72	1	0.32	ppb	1.97	0.33	97.1	90 - 110	
60	Ni	72	1	1.33	ppb	4.10	1.31	101.4	90 - 110	
63	Cu	72	1	1.69	ppb	1.50	1.67	100.7	90 - 110	
66	Zn	72	1	7.96	ppb	1.20	7.82	101.9	90 - 110	
75	As	72	1	1.14	ppb	2.70	1.13	100.8	90 - 110	
78	Se	72	1	0.50	ppb	26.24	0.40	125.4	90 - 110	
95	Mo	72	1	0.21	ppb	6.46	0.25	84.7	90 - 110	
107	Ag	115	1	0.02	ppb	19.71	0.02	106.7	90 - 110	
111	Cd	115	1	0.09	ppb	15.09	0.09	102.8	90 - 110	
118	Sn	115	1	0.10	ppb	8.17	0.04	230.6	90 - 110	
121	Sb	115	1	0.01	ppb	17.15	0.01	110.1	90 - 110	
137	Ba	115	1	3.56	ppb	0.57	3.65	97.5	90 - 110	
205	Tl	165	1	0.04	ppb	3.23	0.04	102.0	90 - 110	
208	Pb	165	1	7.11	ppb	0.55	7.03	101.2	90 - 110	
232	Th	165	1	1.93	ppb	2.88	1.90	101.4	90 - 110	
238	U	165	1	0.43	ppb	1.91	0.43	100.8	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	563145	0.87	543374	103.6	30 - 120	
45	Sc	1	2865879	2.06	2604595	110.0	30 - 120	
72	Ge	1	1731011	0.63	1574612	109.9	30 - 120	
115	In	1	4705877	1.06	4299749	109.4	30 - 120	
165	Ho	1	8990439	0.51	8578931	104.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Labratory Control Spike Duplicate Sample (LCSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\091LCSD.D\091LCSD.D#	
Date Acquired:	Nov 8 2011 12:07 am	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	LRD	**ISTD: Pass**
Sample Name:	lcsd 280-93652/3-a	
Misc Info:	LCSD	
Vial Number:	3105	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 07 2011 07:55 pm	
Sample Type:	LCSD	
Dilution Factor:	1.00	

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110711.B\087_LCS.D\087_LCS.D#

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9	Be	6	1	24.00 ppb	1.51	39.80	49.53	2000	
51	V	72	1	23.66 ppb	1.20	39.41	49.94	2000	
52	Cr	72	1	24.07 ppb	0.88	40.28	50.38	2000	
55	Mn	72	1	23.76 ppb	1.30	39.22	49.09	2000	
59	Co	72	1	23.65 ppb	1.16	39.20	49.48	2000	
60	Ni	72	1	24.07 ppb	1.61	38.56	46.27	2000	
63	Cu	72	1	23.48 ppb	1.25	38.20	47.73	2000	
66	Zn	72	1	23.01 ppb	0.23	37.74	48.49	2000	
75	As	72	1	23.75 ppb	0.37	39.01	48.63	2000	
78	Se	72	1	24.47 ppb	1.59	40.61	49.60	2000	
95	Mo	72	1	38.05 ppb	0.33	38.58	1.38	2000	
107	Ag	115	1	23.38 ppb	3.12	38.63	49.19	2000	
111	Cd	115	1	23.27 ppb	1.89	37.79	47.56	2000	
118	Sn	115	1	37.85 ppb	1.43	38.21	0.95	2000	
121	Sb	115	1	37.28 ppb	1.83	37.54	0.70	2000	
137	Ba	115	1	24.07 ppb	1.85	39.13	47.66	2000	
205	Tl	165	1	24.21 ppb	1.28	39.28	47.47	2000	
208	Pb	165	1	23.28 ppb	0.83	38.82	50.05	2000	
232	Th	165	1	23.43 ppb	2.00	38.20	47.93	2000	
238	U	165	1	23.83 ppb	0.08	38.47	47.00	2000	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	566068	1.24	543374	104.2	30 - 120	
45	Sc	1	2891051	0.90	2604595	111.0	30 - 120	
72	Ge	1	1750581	0.52	1574612	111.2	30 - 120	
115	In	1	4769442	1.81	4299749	110.9	30 - 120	
165	Ho	1	8970043	0.68	8578931	104.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\092_CCV.D\092_CCV.D#
Date Acquired:	Nov 8 2011 12:10 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.72	ppb	3.94	50	101.4	90 - 110	
51	V	72	1	50.74	ppb	0.52	50	101.5	90 - 110	
52	Cr	72	1	50.92	ppb	0.48	50	101.8	90 - 110	
55	Mn	72	1	50.89	ppb	1.87	50	101.8	90 - 110	
59	Co	72	1	50.35	ppb	0.44	50	100.7	90 - 110	
60	Ni	72	1	49.17	ppb	0.75	50	98.3	90 - 110	
63	Cu	72	1	49.82	ppb	1.90	50	99.6	90 - 110	
66	Zn	72	1	49.95	ppb	0.52	50	99.9	90 - 110	
75	As	72	1	50.48	ppb	0.77	50	101.0	90 - 110	
78	Se	72	1	50.77	ppb	1.45	50	101.5	90 - 110	
95	Mo	72	1	49.01	ppb	0.41	50	98.0	90 - 110	
107	Ag	115	1	50.00	ppb	0.18	50	100.0	90 - 110	
111	Cd	115	1	49.41	ppb	1.11	50	98.8	90 - 110	
118	Sn	115	1	48.49	ppb	1.13	50	97.0	90 - 110	
121	Sb	115	1	48.59	ppb	0.64	50	97.2	90 - 110	
137	Ba	115	1	49.99	ppb	1.23	50	100.0	90 - 110	
205	Tl	165	1	49.62	ppb	1.20	50	99.2	90 - 110	
208	Pb	165	1	48.87	ppb	2.15	50	97.7	90 - 110	
232	Th	165	1	48.42	ppb	2.42	50	96.8	90 - 110	
238	U	165	1	47.58	ppb	2.81	50	95.2	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	559340	1.70	543374	102.9	30 - 120	
45	Sc	1	2824085	0.55	2604595	108.4	30 - 120	
72	Ge	1	1714619	0.78	1574612	108.9	30 - 120	
115	In	1	4666841	1.38	4299749	108.5	30 - 120	
165	Ho	1	8923730	1.36	8578931	104.0	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\093_CCB.D\093_CCB.D#
Date Acquired:	Nov 8 2011 12:13 am
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 07 2011 07:55 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	5586.60	1.00	
51	V	72	1	0.004	ppb	35.93	1.00	
52	Cr	72	1	-0.023	ppb	30.80	1.00	
55	Mn	72	1	0.013	ppb	28.54	1.00	
59	Co	72	1	0.005	ppb	29.10	1.00	
60	Ni	72	1	0.018	ppb	58.70	1.00	
63	Cu	72	1	0.010	ppb	38.07	1.00	
66	Zn	72	1	0.039	ppb	21.13	1.00	
75	As	72	1	0.014	ppb	49.75	1.00	
78	Se	72	1	0.207	ppb	97.00	1.00	
95	Mo	72	1	-0.022	ppb	14.98	1.00	
107	Ag	115	1	0.011	ppb	31.96	1.00	
111	Cd	115	1	0.001	ppb	374.25	1.00	
118	Sn	115	1	0.040	ppb	19.04	1.00	
121	Sb	115	1	0.016	ppb	10.84	1.00	
137	Ba	115	1	0.004	ppb	84.05	1.00	
205	Tl	165	1	0.022	ppb	12.40	1.00	
208	Pb	165	1	0.009	ppb	14.02	1.00	
232	Th	165	1	0.039	ppb	6.51	1.00	
238	U	165	1	0.009	ppb	5.42	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551681	1.46	543374	101.5	30 - 120	
45	Sc	1	2832824	0.60	2604595	108.8	30 - 120	
72	Ge	1	1726366	1.13	1574612	109.6	30 - 120	
115	In	1	4681918	2.23	4299749	108.9	30 - 120	
165	Ho	1	8875856	1.47	8578931	103.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\094WASH.D\094WASH.D#
Date Acquired: Nov 8 2011 12:16 am
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.195 ppb	6.94	1.30	
51	V	72	1	4.997 ppb	1.37	6.50	
52	Cr	72	1	2.187 ppb	4.50	2.60	
55	Mn	72	1	1.187 ppb	2.83	1.30	
59	Co	72	1	1.076 ppb	1.73	1.30	
60	Ni	72	1	2.244 ppb	1.16	2.60	
63	Cu	72	1	2.145 ppb	1.24	2.60	
66	Zn	72	1	10.390 ppb	0.48	13.00	
75	As	72	1	5.173 ppb	0.82	6.50	
78	Se	72	1	5.427 ppb	8.30	6.50	
95	Mo	72	1	2.057 ppb	2.86	2.60	
107	Ag	115	1	4.915 ppb	0.72	6.50	
111	Cd	115	1	1.065 ppb	1.38	1.30	
118	Sn	115	1	9.950 ppb	1.32	13.00	
121	Sb	115	1	2.071 ppb	0.37	2.60	
137	Ba	115	1	1.078 ppb	1.53	1.30	
205	Tl	165	1	1.099 ppb	1.53	1.30	
208	Pb	165	1	1.083 ppb	2.56	1.30	
232	Th	165	1	2.039 ppb	3.59	2.60	
238	U	165	1	1.044 ppb	1.56	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	560609	1.46	543374	103.2	30 - 120	
45	Sc	1	2845866	0.97	2604595	109.3	30 - 120	
72	Ge	1	1741692	1.01	1574612	110.6	30 - 120	
115	In	1	4699438	0.11	4299749	109.3	30 - 120	
165	Ho	1	8791402	1.10	8578931	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\095WASH.D\095WASH.D#
Date Acquired: Nov 8 2011 12:19 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 07 2011 07:55 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.004	ppb	0.00	1.30	
51	V	72	1	0.011	ppb	69.58	6.50	
52	Cr	72	1	-0.013	ppb	37.74	2.60	
55	Mn	72	1	-0.009	ppb	80.22	1.30	
59	Co	72	1	0.000	ppb	351.35	1.30	
60	Ni	72	1	0.007	ppb	73.15	2.60	
63	Cu	72	1	-0.015	ppb	29.12	2.60	
66	Zn	72	1	-0.033	ppb	12.36	13.00	
75	As	72	1	0.001	ppb	948.80	6.50	
78	Se	72	1	0.376	ppb	50.76	6.50	
95	Mo	72	1	-0.034	ppb	1.43	2.60	
107	Ag	115	1	0.004	ppb	28.47	6.50	
111	Cd	115	1	0.000	ppb	433.47	1.30	
118	Sn	115	1	0.012	ppb	29.03	13.00	
121	Sb	115	1	0.005	ppb	29.80	2.60	
137	Ba	115	1	0.003	ppb	84.48	1.30	
205	Tl	165	1	0.006	ppb	8.52	1.30	
208	Pb	165	1	0.002	ppb	16.67	1.30	
232	Th	165	1	0.013	ppb	8.09	2.60	
238	U	165	1	0.002	ppb	21.88	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	553949	0.74	543374	101.9	30 - 120	
45	Sc	1	2823813	0.40	2604595	108.4	30 - 120	
72	Ge	1	1733966	0.78	1574612	110.1	30 - 120	
115	In	1	4650881	1.58	4299749	108.2	30 - 120	
165	Ho	1	8765719	0.29	8578931	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\096CALB.D\096CALB.D#
Date Acquired:	Nov 8 2011 12:22 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	Cal Blank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 07 2011 07:55 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	10	99.59
51	V	72	1	320	97.85
52	Cr	72	1	8119	5.17
55	Mn	72	1	1857	10.72
59	Co	72	1	290	17.98
60	Ni	72	1	340	21.57
63	Cu	72	1	1270	10.37
66	Zn	72	1	427	6.39
75	As	72	1	145	9.79
78	Se	72	1	570	17.15
95	Mo	72	1	317	9.05
107	Ag	115	1	193	9.94
111	Cd	115	1	62	82.35
118	Sn	115	1	577	13.38
121	Sb	115	1	139	15.58
137	Ba	115	1	102	11.43
205	Tl	165	1	543	9.68
208	Pb	165	1	1014	7.28
232	Th	165	1	960	11.37
238	U	165	1	478	4.08

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	549155	0.63
45	Sc	1	2834086	1.48
72	Ge	1	1713833	1.24
115	In	1	4702862	0.89
165	Ho	1	8715554	0.52

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#
Date Acquired:	Nov 8 2011 12:25 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1116509
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:23 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
51	V	72	1	-20	1494.20
52	Cr	72	1	8132	3.23
55	Mn	72	1	1693	13.42
59	Co	72	1	267	10.26
60	Ni	72	1	277	5.00
63	Cu	72	1	1120	9.50
66	Zn	72	1	479	3.78
75	As	72	1	124	3.29
78	Se	72	1	460	8.79
95	Mo	72	1	147	42.45
107	Ag	115	1	103	48.67
111	Cd	115	1	35	57.88
118	Sn	115	1	527	7.45
121	Sb	115	1	68	28.98
137	Ba	115	1	83	6.26
205	Tl	165	1	318	8.62
208	Pb	165	1	804	4.92
232	Th	165	1	577	13.38
238	U	165	1	207	12.47

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	562303	0.12
45	Sc	1	2822427	1.67
72	Ge	1	1718060	1.09
115	In	1	4674536	1.03
165	Ho	1	8873444	1.19

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\098ICAL.D\098ICAL.D#
Date Acquired:	Nov 8 2011 12:28 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1116510
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:26 am
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	85345	0.82
51	V	72	1	2421849	0.97
52	Cr	72	1	2550158	0.40
55	Mn	72	1	2259579	1.05
59	Co	72	1	3499420	1.73
60	Ni	72	1	842466	1.76
63	Cu	72	1	2112544	0.91
66	Zn	72	1	381167	0.89
75	As	72	1	276826	0.82
78	Se	72	1	39658	1.04
95	Mo	72	1	988730	1.75
107	Ag	115	1	2935290	1.10
111	Cd	115	1	497335	0.77
118	Sn	115	1	1301631	1.58
121	Sb	115	1	1500513	1.67
137	Ba	115	1	588166	1.56
205	Tl	165	1	4902431	1.92
208	Pb	165	1	6766858	0.83
232	Th	165	1	6440967	1.51
238	U	165	1	6845821	0.52

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	550709	0.22	562303	97.9	30 - 120	
45	Sc	1	2814834	0.59	2822427	99.7	30 - 120	
72	Ge	1	1693007	1.77	1718060	98.5	30 - 120	
115	In	1	4619337	1.27	4674536	98.8	30 - 120	
165	Ho	1	8904090	1.53	8873444	100.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\099_CCV.D\099_CCV.D#
Date Acquired:	Nov 8 2011 12:31 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	48.99	ppb	2.95	50	98.0	90 - 110	
51	V	72	1	49.87	ppb	1.52	50	99.7	90 - 110	
52	Cr	72	1	49.66	ppb	0.81	50	99.3	90 - 110	
55	Mn	72	1	49.66	ppb	1.61	50	99.3	90 - 110	
59	Co	72	1	49.38	ppb	1.18	50	98.8	90 - 110	
60	Ni	72	1	48.64	ppb	1.80	50	97.3	90 - 110	
63	Cu	72	1	48.94	ppb	2.28	50	97.9	90 - 110	
66	Zn	72	1	49.35	ppb	1.78	50	98.7	90 - 110	
75	As	72	1	49.09	ppb	2.10	50	98.2	90 - 110	
78	Se	72	1	48.25	ppb	3.53	50	96.5	90 - 110	
95	Mo	72	1	48.67	ppb	1.67	50	97.3	90 - 110	
107	Ag	115	1	50.96	ppb	1.04	50	101.9	90 - 110	
111	Cd	115	1	49.74	ppb	1.94	50	99.5	90 - 110	
118	Sn	115	1	48.19	ppb	1.99	50	96.4	90 - 110	
121	Sb	115	1	48.18	ppb	1.27	50	96.4	90 - 110	
137	Ba	115	1	49.15	ppb	1.87	50	98.3	90 - 110	
205	Tl	165	1	51.06	ppb	1.06	50	102.1	90 - 110	
208	Pb	165	1	50.43	ppb	0.81	50	100.9	90 - 110	
232	Th	165	1	51.40	ppb	2.00	50	102.8	90 - 110	
238	U	165	1	51.95	ppb	2.39	50	103.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	555919	0.77	562303	98.9	30 - 120	
45	Sc	1	2780909	1.14	2822427	98.5	30 - 120	
72	Ge	1	1709452	1.68	1718060	99.5	30 - 120	
115	In	1	4629115	1.62	4674536	99.0	30 - 120	
165	Ho	1	8743274	0.68	8873444	98.5	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\100_CCB.D\100_CCB.D#
Date Acquired: Nov 8 2011 12:34 am
Operator: LRD
Sample Name: CCB-1116509
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 12:29 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.015	ppb	114.98	1.00	
51	V	72	1	0.029	ppb	6.90	1.00	
52	Cr	72	1	0.012	ppb	67.37	1.00	
55	Mn	72	1	-0.005	ppb	135.41	1.00	
59	Co	72	1	0.003	ppb	10.05	1.00	
60	Ni	72	1	0.014	ppb	25.98	1.00	
63	Cu	72	1	0.005	ppb	87.83	1.00	
66	Zn	72	1	-0.031	ppb	15.02	1.00	
75	As	72	1	0.015	ppb	48.58	1.00	
78	Se	72	1	0.025	ppb	1160.60	1.00	
95	Mo	72	1	0.008	ppb	26.97	1.00	
107	Ag	115	1	0.007	ppb	44.71	1.00	
111	Cd	115	1	0.008	ppb	58.29	1.00	
118	Sn	115	1	0.032	ppb	22.98	1.00	
121	Sb	115	1	0.018	ppb	10.81	1.00	
137	Ba	115	1	-0.001	ppb	261.77	1.00	
205	Tl	165	1	0.022	ppb	12.86	1.00	
208	Pb	165	1	0.007	ppb	19.01	1.00	
232	Th	165	1	0.053	ppb	6.95	1.00	
238	U	165	1	0.010	ppb	6.84	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	558889	0.57	562303	99.4	30 - 120	
45	Sc	1	2826393	0.93	2822427	100.1	30 - 120	
72	Ge	1	1703708	1.50	1718060	99.2	30 - 120	
115	In	1	4642896	0.29	4674536	99.3	30 - 120	
165	Ho	1	8766442	1.61	8873444	98.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\101WASH.D\101WASH.D#
Date Acquired: Nov 8 2011 12:37 am
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 12:29 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.114 ppb	18.09	1.30	
51	V	72	1	4.970 ppb	3.02	6.50	
52	Cr	72	1	2.181 ppb	3.97	2.60	
55	Mn	72	1	1.156 ppb	4.92	1.30	
59	Co	72	1	1.077 ppb	3.52	1.30	
60	Ni	72	1	2.258 ppb	2.70	2.60	
63	Cu	72	1	2.189 ppb	1.81	2.60	
66	Zn	72	1	10.450 ppb	1.72	13.00	
75	As	72	1	5.129 ppb	2.92	6.50	
78	Se	72	1	4.894 ppb	4.74	6.50	
95	Mo	72	1	2.084 ppb	0.92	2.60	
107	Ag	115	1	5.103 ppb	2.57	6.50	
111	Cd	115	1	1.056 ppb	2.54	1.30	
118	Sn	115	1	9.900 ppb	0.48	13.00	
121	Sb	115	1	2.068 ppb	1.92	2.60	
137	Ba	115	1	1.105 ppb	1.07	1.30	
205	Tl	165	1	1.139 ppb	0.78	1.30	
208	Pb	165	1	1.114 ppb	2.18	1.30	
232	Th	165	1	2.138 ppb	3.73	2.60	
238	U	165	1	1.125 ppb	2.43	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	555273	1.58	562303	98.7	30 - 120	
45	Sc	1	2804372	1.20	2822427	99.4	30 - 120	
72	Ge	1	1727416	1.10	1718060	100.5	30 - 120	
115	In	1	4644946	1.47	4674536	99.4	30 - 120	
165	Ho	1	8770569	1.29	8873444	98.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\102_BLK.D\102_BLK.D#
Date Acquired:	Nov 8 2011 12:40 am
Operator:	LRD
Sample Name:	mb 280-92644/1-a
Misc Info:	BLANK 92644 Soil DoD4/6020A
Vial Number:	3204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.008 ppb	86.61	2.00	
51	V	72	1	0.127 ppb	5.62	2.00	
52	Cr	72	1	0.138 ppb	22.83	2.00	
55	Mn	72	1	0.447 ppb	3.11	2.00	
59	Co	72	1	0.009 ppb	12.45	2.00	
60	Ni	72	1	0.390 ppb	2.56	2.00	
63	Cu	72	1	0.422 ppb	3.04	2.00	
66	Zn	72	1	1.044 ppb	0.76	2.00	
75	As	72	1	0.028 ppb	4.12	2.00	
78	Se	72	1	0.027 ppb	1221.00	2.00	
95	Mo	72	1	0.005 ppb	85.68	2.00	
107	Ag	115	1	0.008 ppb	16.83	2.00	
111	Cd	115	1	0.000 ppb	1034.80	2.00	
118	Sn	115	1	0.109 ppb	6.47	2.00	
121	Sb	115	1	0.008 ppb	24.29	2.00	
137	Ba	115	1	0.528 ppb	2.69	2.00	
205	Tl	165	1	0.007 ppb	12.55	2.00	
208	Pb	165	1	0.090 ppb	3.72	2.00	
232	Th	165	1	0.062 ppb	8.89	2.00	
238	U	165	1	0.014 ppb	8.50	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	566106	0.70	562303	100.7	30 - 120	
45	Sc	1	2873172	2.44	2822427	101.8	30 - 120	
72	Ge	1	1723711	0.89	1718060	100.3	30 - 120	
115	In	1	4623453	0.76	4674536	98.9	30 - 120	
165	Ho	1	8918340	1.11	8873444	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\103_LCS.D\103_LCS.D#
Date Acquired:	Nov 8 2011 12:43 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-92644/2-a
Misc Info:	LCS
Vial Number:	3205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	40.72	0.56	40	101.8	80 - 120	
51 V	72	1	41.76	3.41	40	104.4	80 - 120	
52 Cr	72	1	42.74	1.13	40	106.9	80 - 120	
55 Mn	72	1	41.30	3.19	40	103.3	80 - 120	
59 Co	72	1	41.18	1.18	40	103.0	80 - 120	
60 Ni	72	1	41.07	0.24	40	102.7	80 - 120	
63 Cu	72	1	40.77	0.37	40	101.9	80 - 120	
66 Zn	72	1	40.44	0.39	40	101.1	80 - 120	
75 As	72	1	40.24	0.88	40	100.6	80 - 120	
78 Se	72	1	39.40	1.82	40	98.5	80 - 120	
95 Mo	72	1	41.26	1.01	40	103.2	80 - 120	
107 Ag	115	1	41.85	2.95	40	104.6	80 - 120	
111 Cd	115	1	41.35	0.43	40	103.4	80 - 120	
118 Sn	115	1	39.78	0.29	40	99.5	80 - 120	
121 Sb	115	1	39.68	0.83	40	99.2	80 - 120	
137 Ba	115	1	41.17	0.93	40	102.9	80 - 120	
205 Tl	165	1	42.22	0.29	40	105.6	80 - 120	
208 Pb	165	1	41.78	1.04	40	104.5	80 - 120	
232 Th	165	1	41.58	0.89	40	104.0	80 - 120	
238 U	165	1	43.12	1.07	40	107.8	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	563197	0.42	562303	100.2	30 - 120	
45 Sc	1	2851968	1.26	2822427	101.0	30 - 120	
72 Ge	1	1716332	0.92	1718060	99.9	30 - 120	
115 In	1	4639581	1.34	4674536	99.3	30 - 120	
165 Ho	1	8899154	1.36	8873444	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\104SMPL.D\104SMPL.D#
Date Acquired: Nov 8 2011 12:45 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-50-b
Misc Info:
Vial Number: 3206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.35	0.35	ppb	29.70	3600	
51	V	72	1	16.54	16.54	ppb	0.81	3600	
52	Cr	72	1	7.75	7.75	ppb	1.53	3600	
55	Mn	72	1	49.28	49.28	ppb	0.44	18000	
59	Co	72	1	0.77	0.77	ppb	2.32	3600	
60	Ni	72	1	3.13	3.13	ppb	1.07	3600	
63	Cu	72	1	2.07	2.07	ppb	1.08	3600	
66	Zn	72	1	12.81	12.81	ppb	0.66	3600	
75	As	72	1	3.40	3.40	ppb	1.25	3600	
78	Se	72	1	0.82	0.82	ppb	26.26	3600	
95	Mo	72	1	0.55	0.55	ppb	1.82	3600	
107	Ag	115	1	0.04	0.04	ppb	2.62	3600	
111	Cd	115	1	0.03	0.03	ppb	40.93	3600	
118	Sn	115	1	0.13	0.13	ppb	11.31	3600	
121	Sb	115	1	0.03	0.03	ppb	5.81	3600	
137	Ba	115	1	5.82	5.82	ppb	0.68	3600	
205	Tl	165	1	0.12	0.12	ppb	2.44	3600	
208	Pb	165	1	11.83	11.83	ppb	0.90	3600	
232	Th	165	1	9.83	9.83	ppb	1.23	1000	
238	U	165	1	1.54	1.54	ppb	0.79	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	569060	0.59	562303	101.2	30 - 120	
45	Sc	1	2885989	1.55	2822427	102.3	30 - 120	
72	Ge	1	1734629	0.96	1718060	101.0	30 - 120	
115	In	1	4686033	1.13	4674536	100.2	30 - 120	
165	Ho	1	8977522	1.13	8873444	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\105SMPL.D\105SMPL.D#
Date Acquired:	Nov 8 2011 12:48 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-51-f
Misc Info:	
Vial Number:	3207
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.34	0.34	ppb	5.21	3600	
51	V	72	1	20.09	20.09	ppb	2.45	3600	
52	Cr	72	1	8.67	8.67	ppb	2.22	3600	
55	Mn	72	1	58.33	58.33	ppb	1.26	18000	
59	Co	72	1	0.90	0.90	ppb	4.69	3600	
60	Ni	72	1	3.61	3.61	ppb	0.85	3600	
63	Cu	72	1	2.04	2.04	ppb	1.72	3600	
66	Zn	72	1	13.01	13.01	ppb	1.08	3600	
75	As	72	1	4.14	4.14	ppb	1.40	3600	
78	Se	72	1	1.19	1.19	ppb	7.51	3600	
95	Mo	72	1	0.53	0.53	ppb	4.47	3600	
107	Ag	115	1	0.03	0.03	ppb	11.32	3600	
111	Cd	115	1	0.04	0.04	ppb	33.29	3600	
118	Sn	115	1	0.09	0.09	ppb	13.81	3600	
121	Sb	115	1	0.02	0.02	ppb	14.96	3600	
137	Ba	115	1	6.17	6.17	ppb	0.87	3600	
205	Tl	165	1	0.09	0.09	ppb	1.59	3600	
208	Pb	165	1	12.02	12.02	ppb	0.34	3600	
232	Th	165	1	10.44	10.44	ppb	1.13	1000	
238	U	165	1	1.64	1.64	ppb	0.20	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	567010	1.29	562303	100.8	30 - 120	
45	Sc	1	2923842	1.15	2822427	103.6	30 - 120	
72	Ge	1	1739320	0.58	1718060	101.2	30 - 120	
115	In	1	4683751	2.02	4674536	100.2	30 - 120	
165	Ho	1	8945924	1.30	8873444	100.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\106SMPL.D\106SMPL.D#
Date Acquired: Nov 8 2011 12:51 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-59-b
Misc Info:
Vial Number: 3208
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.12	0.12	ppb	38.20	3600	
51	V	72	1	12.07	12.07	ppb	0.81	3600	
52	Cr	72	1	5.17	5.17	ppb	1.58	3600	
55	Mn	72	1	28.60	28.60	ppb	1.03	18000	
59	Co	72	1	0.44	0.44	ppb	0.56	3600	
60	Ni	72	1	1.84	1.84	ppb	2.90	3600	
63	Cu	72	1	2.11	2.11	ppb	2.51	3600	
66	Zn	72	1	7.45	7.45	ppb	1.61	3600	
75	As	72	1	2.73	2.73	ppb	1.25	3600	
78	Se	72	1	1.04	1.04	ppb	27.48	3600	
95	Mo	72	1	0.39	0.39	ppb	2.55	3600	
107	Ag	115	1	0.02	0.02	ppb	20.65	3600	
111	Cd	115	1	0.03	0.03	ppb	49.97	3600	
118	Sn	115	1	0.08	0.08	ppb	3.92	3600	
121	Sb	115	1	0.02	0.02	ppb	11.69	3600	
137	Ba	115	1	5.90	5.90	ppb	2.26	3600	
205	Tl	165	1	0.08	0.08	ppb	2.38	3600	
208	Pb	165	1	11.06	11.06	ppb	0.58	3600	
232	Th	165	1	8.40	8.40	ppb	1.51	1000	
238	U	165	1	1.27	1.27	ppb	0.54	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	567929	0.42	562303	101.0	30 - 120	
45	Sc	1	2884170	0.88	2822427	102.2	30 - 120	
72	Ge	1	1745327	1.55	1718060	101.6	30 - 120	
115	In	1	4696667	0.96	4674536	100.5	30 - 120	
165	Ho	1	8979293	1.29	8873444	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\107SMPL.D\107SMPL.D#
Date Acquired: Nov 8 2011 12:54 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-60-d
Misc Info:
Vial Number: 3209
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.08	0.08	ppb	23.31	3600	
51 V	72	1	12.25	12.25	ppb	2.24	3600	
52 Cr	72	1	4.91	4.91	ppb	2.60	3600	
55 Mn	72	1	28.45	28.45	ppb	2.03	18000	
59 Co	72	1	0.42	0.42	ppb	3.71	3600	
60 Ni	72	1	1.75	1.75	ppb	3.86	3600	
63 Cu	72	1	1.56	1.56	ppb	0.53	3600	
66 Zn	72	1	6.74	6.74	ppb	1.66	3600	
75 As	72	1	2.63	2.63	ppb	1.03	3600	
78 Se	72	1	1.10	1.10	ppb	26.21	3600	
95 Mo	72	1	0.35	0.35	ppb	8.22	3600	
107 Ag	115	1	0.03	0.03	ppb	7.00	3600	
111 Cd	115	1	0.04	0.04	ppb	23.85	3600	
118 Sn	115	1	0.09	0.09	ppb	6.65	3600	
121 Sb	115	1	0.02	0.02	ppb	23.50	3600	
137 Ba	115	1	5.76	5.76	ppb	1.08	3600	
205 Tl	165	1	0.08	0.08	ppb	4.35	3600	
208 Pb	165	1	11.22	11.22	ppb	0.53	3600	
232 Th	165	1	9.48	9.48	ppb	1.48	1000	
238 U	165	1	1.30	1.30	ppb	0.66	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	572514	0.57	562303	101.8	30 - 120	
45 Sc	1	2898400	2.42	2822427	102.7	30 - 120	
72 Ge	1	1748815	0.52	1718060	101.8	30 - 120	
115 In	1	4703607	1.31	4674536	100.6	30 - 120	
165 Ho	1	8976503	0.53	8873444	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\108AREF.D\108AREF.D#
Date Acquired: Nov 8 2011 12:57 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-61-b
Misc Info:
Vial Number: 3210
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.32	0.32	ppb	15.40	3600	
51	V	72	1	15.89	15.89	ppb	2.83	3600	
52	Cr	72	1	9.11	9.11	ppb	1.77	3600	
55	Mn	72	1	38.22	38.22	ppb	3.23	18000	
59	Co	72	1	0.86	0.86	ppb	1.09	3600	
60	Ni	72	1	4.35	4.35	ppb	3.20	3600	
63	Cu	72	1	2.03	2.03	ppb	1.26	3600	
66	Zn	72	1	10.46	10.46	ppb	1.40	3600	
75	As	72	1	3.18	3.18	ppb	1.35	3600	
78	Se	72	1	1.39	1.39	ppb	15.11	3600	
95	Mo	72	1	0.39	0.39	ppb	6.72	3600	
107	Ag	115	1	0.03	0.03	ppb	7.03	3600	
111	Cd	115	1	0.06	0.06	ppb	12.25	3600	
118	Sn	115	1	0.16	0.16	ppb	2.64	3600	
121	Sb	115	1	0.02	0.02	ppb	12.97	3600	
137	Ba	115	1	9.77	9.77	ppb	0.54	3600	
205	Tl	165	1	0.10	0.10	ppb	0.69	3600	
208	Pb	165	1	8.57	8.57	ppb	1.03	3600	
232	Th	165	1	10.19	10.19	ppb	1.12	1000	
238	U	165	1	1.44	1.44	ppb	0.83	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	566814	0.91	562303	100.8	30 - 120	
45	Sc	1	2910528	0.33	2822427	103.1	30 - 120	
72	Ge	1	1744631	0.41	1718060	101.5	30 - 120	
115	In	1	4707996	1.22	4674536	100.7	30 - 120	
165	Ho	1	8983730	0.35	8873444	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\109SDIL.D\109SDIL.D#		
Date Acquired:	Nov 8 2011 01:00 am	**QC Summary:**	
Acq. Method:	NormISIS.M	**Analytes:**	**Pass**
Operator:	LRD	**ISTD:**	**Pass**
Sample Name:	280-21902-a-61-b SD@5		
Misc Info:	SERIAL DILUTION		
Vial Number:	3211		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 12:29 am		
Sample Type:	SDIL		
Dilution Factor:	1.00		

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110711.B\108AREF.D\108AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.05	ppb	1.64	0.06	72.3	90 - 110	
51	V	72	1	3.18	ppb	1.63	3.18	100.2	90 - 110	
52	Cr	72	1	1.79	ppb	3.19	1.82	98.4	90 - 110	
55	Mn	72	1	7.53	ppb	2.03	7.64	98.5	90 - 110	
59	Co	72	1	0.17	ppb	4.76	0.17	99.6	90 - 110	
60	Ni	72	1	0.91	ppb	1.02	0.87	104.4	90 - 110	
63	Cu	72	1	0.40	ppb	3.92	0.41	98.1	90 - 110	
66	Zn	72	1	2.06	ppb	0.60	2.09	98.4	90 - 110	
75	As	72	1	0.62	ppb	4.57	0.64	97.5	90 - 110	
78	Se	72	1	0.39	ppb	52.61	0.28	141.0	90 - 110	
95	Mo	72	1	0.07	ppb	6.74	0.08	92.8	90 - 110	
107	Ag	115	1	0.01	ppb	39.73	0.01	103.7	90 - 110	
111	Cd	115	1	0.01	ppb	111.03	0.01	90.3	90 - 110	
118	Sn	115	1	0.05	ppb	2.98	0.03	136.9	90 - 110	
121	Sb	115	1	0.00	ppb	75.15	0.00	80.5	90 - 110	
137	Ba	115	1	1.98	ppb	0.58	1.95	101.2	90 - 110	
205	Tl	165	1	0.02	ppb	5.91	0.02	93.2	90 - 110	
208	Pb	165	1	1.74	ppb	1.66	1.71	101.7	90 - 110	
232	Th	165	1	2.02	ppb	2.59	2.04	99.3	90 - 110	
238	U	165	1	0.29	ppb	0.96	0.29	100.8	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	566220	1.64	562303	100.7	30 - 120	
45	Sc	1	2888122	0.89	2822427	102.3	30 - 120	
72	Ge	1	1759396	0.87	1718060	102.4	30 - 120	
115	In	1	4684118	1.03	4674536	100.2	30 - 120	
165	Ho	1	8920947	1.15	8873444	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\110_CCV.D\110_CCV.D#
Date Acquired:	Nov 8 2011 01:03 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.38	ppb	3.69	50	100.8	90 - 110	
51	V	72	1	50.86	ppb	0.77	50	101.7	90 - 110	
52	Cr	72	1	51.78	ppb	1.72	50	103.6	90 - 110	
55	Mn	72	1	51.08	ppb	1.78	50	102.2	90 - 110	
59	Co	72	1	50.66	ppb	0.64	50	101.3	90 - 110	
60	Ni	72	1	50.00	ppb	1.26	50	100.0	90 - 110	
63	Cu	72	1	49.94	ppb	0.56	50	99.9	90 - 110	
66	Zn	72	1	50.42	ppb	0.63	50	100.8	90 - 110	
75	As	72	1	50.09	ppb	0.56	50	100.2	90 - 110	
78	Se	72	1	49.84	ppb	0.18	50	99.7	90 - 110	
95	Mo	72	1	49.50	ppb	0.71	50	99.0	90 - 110	
107	Ag	115	1	50.58	ppb	0.93	50	101.2	90 - 110	
111	Cd	115	1	50.24	ppb	0.42	50	100.5	90 - 110	
118	Sn	115	1	48.55	ppb	0.28	50	97.1	90 - 110	
121	Sb	115	1	49.06	ppb	0.87	50	98.1	90 - 110	
137	Ba	115	1	50.17	ppb	0.95	50	100.3	90 - 110	
205	Tl	165	1	51.86	ppb	0.89	50	103.7	90 - 110	
208	Pb	165	1	51.14	ppb	1.36	50	102.3	90 - 110	
232	Th	165	1	52.06	ppb	3.06	50	104.1	90 - 110	
238	U	165	1	52.60	ppb	3.37	50	105.2	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	561402	0.69	562303	99.8	30 - 120	
45	Sc	1	2851139	0.72	2822427	101.0	30 - 120	
72	Ge	1	1724294	1.19	1718060	100.4	30 - 120	
115	In	1	4699055	1.03	4674536	100.5	30 - 120	
165	Ho	1	8799417	1.40	8873444	99.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\111_CCB.D\111_CCB.D#
Date Acquired:	Nov 8 2011 01:06 am
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.023	ppb	50.82	1.00	
51	V	72	1	0.016	ppb	70.08	1.00	
52	Cr	72	1	-0.016	ppb	47.71	1.00	
55	Mn	72	1	0.015	ppb	52.60	1.00	
59	Co	72	1	0.005	ppb	36.27	1.00	
60	Ni	72	1	0.007	ppb	83.05	1.00	
63	Cu	72	1	0.020	ppb	7.04	1.00	
66	Zn	72	1	0.045	ppb	10.97	1.00	
75	As	72	1	0.003	ppb	280.36	1.00	
78	Se	72	1	0.100	ppb	94.95	1.00	
95	Mo	72	1	0.003	ppb	211.50	1.00	
107	Ag	115	1	0.007	ppb	28.21	1.00	
111	Cd	115	1	0.011	ppb	15.77	1.00	
118	Sn	115	1	0.022	ppb	31.97	1.00	
121	Sb	115	1	0.009	ppb	4.52	1.00	
137	Ba	115	1	0.002	ppb	243.27	1.00	
205	Tl	165	1	0.017	ppb	8.14	1.00	
208	Pb	165	1	0.006	ppb	22.78	1.00	
232	Th	165	1	0.036	ppb	5.11	1.00	
238	U	165	1	0.007	ppb	1.85	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	555537	0.95	562303	98.8	30 - 120	
45	Sc	1	2859013	1.59	2822427	101.3	30 - 120	
72	Ge	1	1718500	1.23	1718060	100.0	30 - 120	
115	In	1	4674656	0.19	4674536	100.0	30 - 120	
165	Ho	1	8764197	0.54	8873444	98.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\112WASH.D\112WASH.D#
Date Acquired: Nov 8 2011 01:09 am
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 12:29 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.149 ppb	4.15	1.30	
51	V	72	1	5.090 ppb	2.99	6.50	
52	Cr	72	1	2.209 ppb	2.72	2.60	
55	Mn	72	1	1.201 ppb	2.03	1.30	
59	Co	72	1	1.066 ppb	3.12	1.30	
60	Ni	72	1	2.256 ppb	2.15	2.60	
63	Cu	72	1	2.205 ppb	1.15	2.60	
66	Zn	72	1	10.560 ppb	1.33	13.00	
75	As	72	1	5.166 ppb	2.86	6.50	
78	Se	72	1	5.448 ppb	7.14	6.50	
95	Mo	72	1	2.133 ppb	2.35	2.60	
107	Ag	115	1	5.126 ppb	1.55	6.50	
111	Cd	115	1	1.082 ppb	4.71	1.30	
118	Sn	115	1	10.020 ppb	1.20	13.00	
121	Sb	115	1	2.072 ppb	0.96	2.60	
137	Ba	115	1	1.122 ppb	0.86	1.30	
205	Tl	165	1	1.105 ppb	1.97	1.30	
208	Pb	165	1	1.104 ppb	1.94	1.30	
232	Th	165	1	2.140 ppb	1.94	2.60	
238	U	165	1	1.113 ppb	2.86	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	554208	0.66	562303	98.6	30 - 120	
45	Sc	1	2878841	1.03	2822427	102.0	30 - 120	
72	Ge	1	1728186	0.77	1718060	100.6	30 - 120	
115	In	1	4643904	1.55	4674536	99.3	30 - 120	
165	Ho	1	8922810	0.93	8873444	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\113PDS.D\113PDS.D#
Date Acquired:	Nov 8 2011 01:12 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-61-b PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3212
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00
Spike Ref. File:	---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	204.30	0.32	ppb	1.07	200	102.0	75 - 125	
51 V	72	1	211.40	15.89	ppb	0.50	200	97.9	75 - 125	
52 Cr	72	1	206.30	9.11	ppb	1.26	200	98.7	75 - 125	
55 Mn	72	1	231.70	38.22	ppb	1.04	200	97.3	75 - 125	
59 Co	72	1	194.00	0.86	ppb	0.84	200	96.6	75 - 125	
60 Ni	72	1	208.10	4.35	ppb	1.21	200	101.8	75 - 125	
63 Cu	72	1	194.90	2.03	ppb	1.26	200	96.5	75 - 125	
66 Zn	72	1	203.50	10.46	ppb	0.27	200	96.7	75 - 125	
75 As	72	1	202.50	3.18	ppb	0.70	200	99.7	75 - 125	
78 Se	72	1	198.90	1.39	ppb	0.75	200	98.8	75 - 125	
95 Mo	72	1	202.70	0.39	ppb	0.08	200	101.2	75 - 125	
107 Ag	115	1	50.43	0.03	ppb	2.21	50	100.8	75 - 125	
111 Cd	115	1	202.40	0.06	ppb	0.81	200	101.2	75 - 125	
118 Sn	115	1	198.80	0.16	ppb	0.58	200	99.3	75 - 125	
121 Sb	115	1	195.50	0.02	ppb	1.37	200	97.7	75 - 125	
137 Ba	115	1	216.30	9.77	ppb	1.83	200	103.1	75 - 125	
205 Tl	165	1	201.10	0.10	ppb	0.50	200	100.5	75 - 125	
208 Pb	165	1	205.70	8.57	ppb	0.47	200	98.6	75 - 125	
232 Th	165	1	10.30	10.19	ppb	1.61	200	4.9	75 - 125	
238 U	165	1	203.50	1.44	ppb	1.04	200	101.0	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	560028	0.60	562303	99.6	30 - 120	
45 Sc	1	2903338	2.06	2822427	102.9	30 - 120	
72 Ge	1	1708745	0.45	1718060	99.5	30 - 120	
115 In	1	4624218	1.36	4674536	98.9	30 - 120	
165 Ho	1	8890307	0.34	8873444	100.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\114_MS.D\114_MS.D#
Date Acquired:	Nov 8 2011 01:15 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-61-c ms
Misc Info:	MATRIX SPIKE
Vial Number:	3301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	42.24	0.32	ppb	1.12	40	104.8	50 - 150	
51	V	72	1	62.69	15.89	ppb	2.65	40	112.2	50 - 150	
52	Cr	72	1	53.47	9.11	ppb	1.98	40	108.9	50 - 150	
55	Mn	72	1	89.05	38.22	ppb	1.39	40	113.8	50 - 150	
59	Co	72	1	41.96	0.86	ppb	2.31	40	102.7	50 - 150	
60	Ni	72	1	45.35	4.35	ppb	1.05	40	102.2	50 - 150	
63	Cu	72	1	41.05	2.03	ppb	1.34	40	97.7	50 - 150	
66	Zn	72	1	52.51	10.46	ppb	0.83	40	104.1	50 - 150	
75	As	72	1	42.23	3.18	ppb	0.48	40	97.8	50 - 150	
78	Se	72	1	38.48	1.39	ppb	1.44	40	93.0	50 - 150	
95	Mo	72	1	37.14	0.39	ppb	1.04	40	91.9	50 - 150	
107	Ag	115	1	40.89	0.03	ppb	2.43	40	102.1	50 - 150	
111	Cd	115	1	40.96	0.06	ppb	0.34	40	102.3	50 - 150	
118	Sn	115	1	14.02	0.16	ppb	1.36	40	34.9	50 - 150	
121	Sb	115	1	6.62	0.02	ppb	1.29	40	16.6	50 - 150	
137	Ba	115	1	52.58	9.77	ppb	1.19	40	105.7	50 - 150	
205	Tl	165	1	42.38	0.10	ppb	1.41	40	105.7	50 - 150	
208	Pb	165	1	49.49	8.57	ppb	1.39	40	101.9	50 - 150	
232	Th	165	1	53.78	10.19	ppb	0.38	40	107.2	50 - 150	
238	U	165	1	44.28	1.44	ppb	0.62	40	106.9	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	565424	0.95	562303	100.6	30 - 120	
45	Sc	1	2897491	0.73	2822427	102.7	30 - 120	
72	Ge	1	1749665	0.73	1718060	101.8	30 - 120	
115	In	1	4668008	0.37	4674536	99.9	30 - 120	
165	Ho	1	8958801	1.39	8873444	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\115_MSD.D\115_MSD.D#
Date Acquired:	Nov 8 2011 01:17 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-61-d msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	3302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110711.B\114_MS.D\114_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	41.77	ppb	2.57	42.24	1.12	20	
51	V	72	1	62.15	ppb	1.01	62.69	0.87	20	
52	Cr	72	1	54.43	ppb	0.88	53.47	1.78	20	
55	Mn	72	1	90.22	ppb	1.82	89.05	1.31	20	
59	Co	72	1	43.28	ppb	1.26	41.96	3.10	20	
60	Ni	72	1	46.45	ppb	0.86	45.35	2.40	20	
63	Cu	72	1	41.79	ppb	0.33	41.05	1.79	20	
66	Zn	72	1	52.62	ppb	0.88	52.51	0.21	20	
75	As	72	1	42.91	ppb	0.73	42.23	1.60	20	
78	Se	72	1	40.41	ppb	1.66	38.48	4.89	20	
95	Mo	72	1	38.01	ppb	1.59	37.14	2.32	20	
107	Ag	115	1	41.20	ppb	2.38	40.89	0.76	20	
111	Cd	115	1	41.46	ppb	0.73	40.96	1.21	20	
118	Sn	115	1	13.77	ppb	1.92	14.02	1.80	20	
121	Sb	115	1	6.31	ppb	0.87	6.62	4.78	20	
137	Ba	115	1	55.97	ppb	0.73	52.58	6.25	20	
205	Tl	165	1	42.64	ppb	0.83	42.38	0.61	20	
208	Pb	165	1	49.11	ppb	1.82	49.49	0.77	20	
232	Th	165	1	52.90	ppb	1.70	53.78	1.65	20	
238	U	165	1	44.97	ppb	1.24	44.28	1.55	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	562041	0.36	562303	100.0	30 - 120	
45	Sc	1	2857558	0.37	2822427	101.2	30 - 120	
72	Ge	1	1722039	1.27	1718060	100.2	30 - 120	
115	In	1	4657560	1.49	4674536	99.6	30 - 120	
165	Ho	1	8920919	0.73	8873444	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\116SMPL.D\116SMPL.D#
Date Acquired:	Nov 8 2011 01:20 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-63-b
Misc Info:	
Vial Number:	3303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.25	0.25	ppb	18.17	3600	
51	V	72	1	18.09	18.09	ppb	0.97	3600	
52	Cr	72	1	8.39	8.39	ppb	0.03	3600	
55	Mn	72	1	55.50	55.50	ppb	1.08	18000	
59	Co	72	1	0.76	0.76	ppb	0.92	3600	
60	Ni	72	1	3.28	3.28	ppb	2.13	3600	
63	Cu	72	1	2.36	2.36	ppb	1.70	3600	
66	Zn	72	1	14.43	14.43	ppb	0.36	3600	
75	As	72	1	3.86	3.86	ppb	1.73	3600	
78	Se	72	1	1.41	1.41	ppb	15.29	3600	
95	Mo	72	1	0.59	0.59	ppb	4.22	3600	
107	Ag	115	1	0.04	0.04	ppb	13.47	3600	
111	Cd	115	1	0.08	0.08	ppb	9.86	3600	
118	Sn	115	1	0.14	0.14	ppb	4.09	3600	
121	Sb	115	1	0.03	0.03	ppb	0.70	3600	
137	Ba	115	1	10.36	10.36	ppb	1.16	3600	
205	Tl	165	1	0.13	0.13	ppb	5.43	3600	
208	Pb	165	1	16.55	16.55	ppb	0.99	3600	
232	Th	165	1	10.61	10.61	ppb	2.62	1000	
238	U	165	1	1.59	1.59	ppb	2.43	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	566748	0.62	562303	100.8	30 - 120	
45	Sc	1	2878121	0.42	2822427	102.0	30 - 120	
72	Ge	1	1742285	1.53	1718060	101.4	30 - 120	
115	In	1	4705242	1.50	4674536	100.7	30 - 120	
165	Ho	1	8935046	1.13	8873444	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\117SMPL.D\117SMPL.D#
Date Acquired:	Nov 8 2011 01:23 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-64-d
Misc Info:	
Vial Number:	3304
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.27	0.27	ppb	2.17	3600	
51	V	72	1	21.67	21.67	ppb	0.24	3600	
52	Cr	72	1	13.87	13.87	ppb	1.14	3600	
55	Mn	72	1	46.72	46.72	ppb	2.79	18000	
59	Co	72	1	1.40	1.40	ppb	2.44	3600	
60	Ni	72	1	6.29	6.29	ppb	1.38	3600	
63	Cu	72	1	2.13	2.13	ppb	1.83	3600	
66	Zn	72	1	14.20	14.20	ppb	0.23	3600	
75	As	72	1	4.83	4.83	ppb	1.61	3600	
78	Se	72	1	1.65	1.65	ppb	8.69	3600	
95	Mo	72	1	0.59	0.59	ppb	5.42	3600	
107	Ag	115	1	0.03	0.03	ppb	1.62	3600	
111	Cd	115	1	0.06	0.06	ppb	27.87	3600	
118	Sn	115	1	0.18	0.18	ppb	2.11	3600	
121	Sb	115	1	0.02	0.02	ppb	10.78	3600	
137	Ba	115	1	10.69	10.69	ppb	0.26	3600	
205	Tl	165	1	0.13	0.13	ppb	0.93	3600	
208	Pb	165	1	9.03	9.03	ppb	0.80	3600	
232	Th	165	1	12.17	12.17	ppb	0.46	1000	
238	U	165	1	1.73	1.73	ppb	1.21	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	564323	0.78	562303	100.4	30 - 120	
45	Sc	1	2898477	0.86	2822427	102.7	30 - 120	
72	Ge	1	1732340	0.87	1718060	100.8	30 - 120	
115	In	1	4670549	0.69	4674536	99.9	30 - 120	
165	Ho	1	8927130	0.40	8873444	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\118SMPL.D\118SMPL.D#
Date Acquired:	Nov 8 2011 01:26 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-65-d
Misc Info:	
Vial Number:	3305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.13	0.13	ppb	23.68	3600	
51	V	72	1	15.26	15.26	ppb	1.08	3600	
52	Cr	72	1	6.53	6.53	ppb	0.35	3600	
55	Mn	72	1	24.89	24.89	ppb	1.29	18000	
59	Co	72	1	0.44	0.44	ppb	2.36	3600	
60	Ni	72	1	2.24	2.24	ppb	3.33	3600	
63	Cu	72	1	2.29	2.29	ppb	1.97	3600	
66	Zn	72	1	7.81	7.81	ppb	1.84	3600	
75	As	72	1	2.83	2.83	ppb	0.82	3600	
78	Se	72	1	0.83	0.83	ppb	22.15	3600	
95	Mo	72	1	0.49	0.49	ppb	3.27	3600	
107	Ag	115	1	0.03	0.03	ppb	13.83	3600	
111	Cd	115	1	0.05	0.05	ppb	16.73	3600	
118	Sn	115	1	0.11	0.11	ppb	15.89	3600	
121	Sb	115	1	0.02	0.02	ppb	8.21	3600	
137	Ba	115	1	6.46	6.46	ppb	1.00	3600	
205	Tl	165	1	0.08	0.08	ppb	2.82	3600	
208	Pb	165	1	19.81	19.81	ppb	1.71	3600	
232	Th	165	1	9.10	9.10	ppb	1.83	1000	
238	U	165	1	1.31	1.31	ppb	1.31	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	565904	1.19	562303	100.6	30 - 120	
45	Sc	1	2921710	1.32	2822427	103.5	30 - 120	
72	Ge	1	1766876	0.13	1718060	102.8	30 - 120	
115	In	1	4703369	1.47	4674536	100.6	30 - 120	
165	Ho	1	8896163	1.42	8873444	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\119SMPL.D\119SMPL.D#
Date Acquired: Nov 8 2011 01:29 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-66-b
Misc Info:
Vial Number: 3306
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.39	0.39	ppb	9.68	3600	
51	V	72	1	24.70	24.70	ppb	0.97	3600	
52	Cr	72	1	12.19	12.19	ppb	1.02	3600	
55	Mn	72	1	32.44	32.44	ppb	0.80	18000	
59	Co	72	1	0.84	0.84	ppb	3.38	3600	
60	Ni	72	1	4.27	4.27	ppb	2.41	3600	
63	Cu	72	1	2.27	2.27	ppb	1.48	3600	
66	Zn	72	1	11.51	11.51	ppb	0.53	3600	
75	As	72	1	4.76	4.76	ppb	1.14	3600	
78	Se	72	1	1.44	1.44	ppb	31.08	3600	
95	Mo	72	1	0.76	0.76	ppb	1.92	3600	
107	Ag	115	1	0.03	0.03	ppb	6.61	3600	
111	Cd	115	1	0.06	0.06	ppb	20.99	3600	
118	Sn	115	1	0.17	0.17	ppb	5.62	3600	
121	Sb	115	1	0.02	0.02	ppb	20.96	3600	
137	Ba	115	1	9.56	9.56	ppb	2.26	3600	
205	Tl	165	1	0.12	0.12	ppb	2.57	3600	
208	Pb	165	1	15.67	15.67	ppb	2.02	3600	
232	Th	165	1	9.56	9.56	ppb	2.22	1000	
238	U	165	1	1.41	1.41	ppb	0.37	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	568146	1.18	562303	101.0	30 - 120	
45	Sc	1	2895299	1.03	2822427	102.6	30 - 120	
72	Ge	1	1709671	0.47	1718060	99.5	30 - 120	
115	In	1	4659906	0.84	4674536	99.7	30 - 120	
165	Ho	1	8918517	1.36	8873444	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\120SMPL.D\120SMPL.D#
Date Acquired: Nov 8 2011 01:32 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-67-d
Misc Info:
Vial Number: 3307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.39	0.39	ppb	11.37	3600	
51	V	72	1	24.85	24.85	ppb	0.30	3600	
52	Cr	72	1	12.71	12.71	ppb	0.66	3600	
55	Mn	72	1	54.48	54.48	ppb	1.28	18000	
59	Co	72	1	0.91	0.91	ppb	4.13	3600	
60	Ni	72	1	6.02	6.02	ppb	1.86	3600	
63	Cu	72	1	2.03	2.03	ppb	1.85	3600	
66	Zn	72	1	14.92	14.92	ppb	0.89	3600	
75	As	72	1	4.52	4.52	ppb	1.23	3600	
78	Se	72	1	1.05	1.05	ppb	5.63	3600	
95	Mo	72	1	0.75	0.75	ppb	1.20	3600	
107	Ag	115	1	0.03	0.03	ppb	10.05	3600	
111	Cd	115	1	0.05	0.05	ppb	22.21	3600	
118	Sn	115	1	0.18	0.18	ppb	5.93	3600	
121	Sb	115	1	0.02	0.02	ppb	6.41	3600	
137	Ba	115	1	9.24	9.24	ppb	3.93	3600	
205	Tl	165	1	0.11	0.11	ppb	5.12	3600	
208	Pb	165	1	14.21	14.21	ppb	0.40	3600	
232	Th	165	1	8.94	8.94	ppb	1.06	1000	
238	U	165	1	1.39	1.39	ppb	0.70	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	563046	0.69	562303	100.1	30 - 120	
45	Sc	1	2876009	2.90	2822427	101.9	30 - 120	
72	Ge	1	1738427	1.63	1718060	101.2	30 - 120	
115	In	1	4648074	1.31	4674536	99.4	30 - 120	
165	Ho	1	8936554	1.14	8873444	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\121_CCV.D\121_CCV.D#
Date Acquired:	Nov 8 2011 01:35 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.97	ppb	2.84	50	99.9	90 - 110	
51	V	72	1	50.79	ppb	1.78	50	101.6	90 - 110	
52	Cr	72	1	51.11	ppb	2.49	50	102.2	90 - 110	
55	Mn	72	1	51.18	ppb	2.70	50	102.4	90 - 110	
59	Co	72	1	50.14	ppb	2.09	50	100.3	90 - 110	
60	Ni	72	1	49.62	ppb	1.17	50	99.2	90 - 110	
63	Cu	72	1	51.25	ppb	2.50	50	102.5	90 - 110	
66	Zn	72	1	50.50	ppb	1.20	50	101.0	90 - 110	
75	As	72	1	50.29	ppb	0.96	50	100.6	90 - 110	
78	Se	72	1	49.06	ppb	1.52	50	98.1	90 - 110	
95	Mo	72	1	49.53	ppb	2.49	50	99.1	90 - 110	
107	Ag	115	1	51.21	ppb	1.14	50	102.4	90 - 110	
111	Cd	115	1	50.38	ppb	1.25	50	100.8	90 - 110	
118	Sn	115	1	49.08	ppb	0.59	50	98.2	90 - 110	
121	Sb	115	1	49.19	ppb	0.64	50	98.4	90 - 110	
137	Ba	115	1	50.21	ppb	0.63	50	100.4	90 - 110	
205	Tl	165	1	51.72	ppb	0.54	50	103.4	90 - 110	
208	Pb	165	1	51.24	ppb	1.63	50	102.5	90 - 110	
232	Th	165	1	52.55	ppb	2.49	50	105.1	90 - 110	
238	U	165	1	52.27	ppb	1.62	50	104.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	559705	1.32	562303	99.5	30 - 120	
45	Sc	1	2857463	1.46	2822427	101.2	30 - 120	
72	Ge	1	1723478	0.70	1718060	100.3	30 - 120	
115	In	1	4678171	1.72	4674536	100.1	30 - 120	
165	Ho	1	8785697	0.33	8873444	99.0	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\122_CCB.D\122_CCB.D#
Date Acquired: Nov 8 2011 01:38 am
Operator: LRD
Sample Name: CCB-1116509
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 12:29 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	99.66	1.00	
51	V	72	1	0.022	ppb	56.92	1.00	
52	Cr	72	1	-0.008	ppb	28.73	1.00	
55	Mn	72	1	0.013	ppb	61.86	1.00	
59	Co	72	1	0.003	ppb	13.05	1.00	
60	Ni	72	1	0.017	ppb	52.12	1.00	
63	Cu	72	1	0.015	ppb	36.55	1.00	
66	Zn	72	1	0.038	ppb	10.67	1.00	
75	As	72	1	0.003	ppb	94.37	1.00	
78	Se	72	1	0.125	ppb	287.89	1.00	
95	Mo	72	1	0.008	ppb	42.31	1.00	
107	Ag	115	1	0.007	ppb	15.54	1.00	
111	Cd	115	1	0.005	ppb	58.63	1.00	
118	Sn	115	1	0.009	ppb	17.51	1.00	
121	Sb	115	1	0.012	ppb	14.71	1.00	
137	Ba	115	1	0.001	ppb	130.31	1.00	
205	Tl	165	1	0.017	ppb	10.67	1.00	
208	Pb	165	1	0.008	ppb	13.72	1.00	
232	Th	165	1	0.032	ppb	9.81	1.00	
238	U	165	1	0.008	ppb	1.34	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	555485	0.69	562303	98.8	30 - 120	
45	Sc	1	2841737	0.42	2822427	100.7	30 - 120	
72	Ge	1	1715002	1.84	1718060	99.8	30 - 120	
115	In	1	4680590	2.38	4674536	100.1	30 - 120	
165	Ho	1	8753969	0.52	8873444	98.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\123WASH.D\123WASH.D#
Date Acquired: Nov 8 2011 01:41 am
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 12:29 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.178 ppb	15.38	1.30	
51	V	72	1	5.077 ppb	0.97	6.50	
52	Cr	72	1	2.197 ppb	2.17	2.60	
55	Mn	72	1	1.187 ppb	1.92	1.30	
59	Co	72	1	1.086 ppb	1.62	1.30	
60	Ni	72	1	2.283 ppb	4.65	2.60	
63	Cu	72	1	2.206 ppb	1.74	2.60	
66	Zn	72	1	10.580 ppb	1.63	13.00	
75	As	72	1	5.119 ppb	1.29	6.50	
78	Se	72	1	5.229 ppb	12.24	6.50	
95	Mo	72	1	2.124 ppb	2.25	2.60	
107	Ag	115	1	5.147 ppb	0.63	6.50	
111	Cd	115	1	1.113 ppb	2.05	1.30	
118	Sn	115	1	10.050 ppb	1.12	13.00	
121	Sb	115	1	2.084 ppb	0.38	2.60	
137	Ba	115	1	1.149 ppb	1.17	1.30	
205	Tl	165	1	1.114 ppb	1.08	1.30	
208	Pb	165	1	1.110 ppb	1.01	1.30	
232	Th	165	1	2.156 ppb	2.27	2.60	
238	U	165	1	1.125 ppb	2.20	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	555251	0.52	562303	98.7	30 - 120	
45	Sc	1	2870538	2.81	2822427	101.7	30 - 120	
72	Ge	1	1719713	0.20	1718060	100.1	30 - 120	
115	In	1	4609528	0.72	4674536	98.6	30 - 120	
165	Ho	1	8844797	1.05	8873444	99.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\124SMPL.D\124SMPL.D#
Date Acquired:	Nov 8 2011 01:44 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-68-d
Misc Info:	
Vial Number:	3308
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.06	0.06	ppb	27.21	3600	
51	V	72	1	12.66	12.66	ppb	0.93	3600	
52	Cr	72	1	5.09	5.09	ppb	1.53	3600	
55	Mn	72	1	25.21	25.21	ppb	1.31	18000	
59	Co	72	1	0.38	0.38	ppb	2.27	3600	
60	Ni	72	1	1.73	1.73	ppb	1.11	3600	
63	Cu	72	1	2.19	2.19	ppb	2.65	3600	
66	Zn	72	1	8.80	8.80	ppb	0.43	3600	
75	As	72	1	2.64	2.64	ppb	2.61	3600	
78	Se	72	1	1.47	1.47	ppb	9.71	3600	
95	Mo	72	1	0.42	0.42	ppb	4.04	3600	
107	Ag	115	1	0.04	0.04	ppb	9.47	3600	
111	Cd	115	1	0.04	0.04	ppb	1.47	3600	
118	Sn	115	1	0.09	0.09	ppb	3.30	3600	
121	Sb	115	1	0.03	0.03	ppb	14.75	3600	
137	Ba	115	1	5.72	5.72	ppb	1.89	3600	
205	Tl	165	1	0.09	0.09	ppb	3.25	3600	
208	Pb	165	1	13.43	13.43	ppb	0.43	3600	
232	Th	165	1	11.61	11.61	ppb	0.31	1000	
238	U	165	1	1.60	1.60	ppb	1.09	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	571678	0.46	562303	101.7	30 - 120	
45	Sc	1	2912311	2.98	2822427	103.2	30 - 120	
72	Ge	1	1762058	1.23	1718060	102.6	30 - 120	
115	In	1	4671985	0.74	4674536	99.9	30 - 120	
165	Ho	1	8877002	1.03	8873444	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\125SMPL.D\125SMPL.D#
Date Acquired:	Nov 8 2011 01:47 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-69-d
Misc Info:	
Vial Number:	3309
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.24	0.24	ppb	11.56	3600	
51	V	72	1	23.79	23.79	ppb	1.90	3600	
52	Cr	72	1	11.46	11.46	ppb	1.76	3600	
55	Mn	72	1	35.55	35.55	ppb	2.35	18000	
59	Co	72	1	0.88	0.88	ppb	1.88	3600	
60	Ni	72	1	4.18	4.18	ppb	0.39	3600	
63	Cu	72	1	1.81	1.81	ppb	1.35	3600	
66	Zn	72	1	12.13	12.13	ppb	1.15	3600	
75	As	72	1	4.38	4.38	ppb	2.45	3600	
78	Se	72	1	1.35	1.35	ppb	16.17	3600	
95	Mo	72	1	0.65	0.65	ppb	5.56	3600	
107	Ag	115	1	0.03	0.03	ppb	8.78	3600	
111	Cd	115	1	0.04	0.04	ppb	21.27	3600	
118	Sn	115	1	0.24	0.24	ppb	5.22	3600	
121	Sb	115	1	0.01	0.01	ppb	14.41	3600	
137	Ba	115	1	7.85	7.85	ppb	1.98	3600	
205	Tl	165	1	0.13	0.13	ppb	0.95	3600	
208	Pb	165	1	13.21	13.21	ppb	1.85	3600	
232	Th	165	1	8.41	8.41	ppb	2.34	1000	
238	U	165	1	1.26	1.26	ppb	1.42	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	564381	1.56	562303	100.4	30 - 120	
45	Sc	1	2915670	1.20	2822427	103.3	30 - 120	
72	Ge	1	1740746	0.62	1718060	101.3	30 - 120	
115	In	1	4683565	1.09	4674536	100.2	30 - 120	
165	Ho	1	8872903	1.67	8873444	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\126SMPL.D\126SMPL.D#
Date Acquired:	Nov 8 2011 01:49 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-70-b
Misc Info:	
Vial Number:	3310
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.20	0.20	ppb	37.48	3600	
51	V	72	1	16.01	16.01	ppb	1.04	3600	
52	Cr	72	1	7.27	7.27	ppb	1.52	3600	
55	Mn	72	1	35.46	35.46	ppb	1.61	18000	
59	Co	72	1	0.56	0.56	ppb	3.01	3600	
60	Ni	72	1	2.44	2.44	ppb	4.77	3600	
63	Cu	72	1	1.85	1.85	ppb	1.48	3600	
66	Zn	72	1	6.87	6.87	ppb	0.47	3600	
75	As	72	1	2.95	2.95	ppb	1.86	3600	
78	Se	72	1	0.94	0.94	ppb	51.56	3600	
95	Mo	72	1	0.89	0.89	ppb	3.39	3600	
107	Ag	115	1	0.03	0.03	ppb	10.88	3600	
111	Cd	115	1	0.02	0.02	ppb	43.49	3600	
118	Sn	115	1	0.10	0.10	ppb	17.04	3600	
121	Sb	115	1	0.02	0.02	ppb	4.29	3600	
137	Ba	115	1	4.67	4.67	ppb	1.19	3600	
205	Tl	165	1	0.08	0.08	ppb	1.18	3600	
208	Pb	165	1	21.52	21.52	ppb	1.12	3600	
232	Th	165	1	10.61	10.61	ppb	1.48	1000	
238	U	165	1	1.77	1.77	ppb	1.23	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	562320	0.73	562303	100.0	30 - 120	
45	Sc	1	2868376	0.93	2822427	101.6	30 - 120	
72	Ge	1	1734736	0.53	1718060	101.0	30 - 120	
115	In	1	4699351	0.89	4674536	100.5	30 - 120	
165	Ho	1	8918282	1.27	8873444	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\127SMPL.D\127SMPL.D#
Date Acquired: Nov 8 2011 01:52 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-71-b
Misc Info:
Vial Number: 3311
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.48	0.48	ppb	15.72	3600	
51 V	72	1	26.39	26.39	ppb	2.14	3600	
52 Cr	72	1	16.39	16.39	ppb	1.55	3600	
55 Mn	72	1	61.31	61.31	ppb	1.51	18000	
59 Co	72	1	1.92	1.92	ppb	2.18	3600	
60 Ni	72	1	7.46	7.46	ppb	2.98	3600	
63 Cu	72	1	2.91	2.91	ppb	3.46	3600	
66 Zn	72	1	15.13	15.13	ppb	1.50	3600	
75 As	72	1	5.22	5.22	ppb	2.24	3600	
78 Se	72	1	1.55	1.55	ppb	28.99	3600	
95 Mo	72	1	1.25	1.25	ppb	4.78	3600	
107 Ag	115	1	0.03	0.03	ppb	0.73	3600	
111 Cd	115	1	0.06	0.06	ppb	13.02	3600	
118 Sn	115	1	0.19	0.19	ppb	6.12	3600	
121 Sb	115	1	0.01	0.01	ppb	7.28	3600	
137 Ba	115	1	8.30	8.30	ppb	1.79	3600	
205 Tl	165	1	0.11	0.11	ppb	3.36	3600	
208 Pb	165	1	14.78	14.78	ppb	0.98	3600	
232 Th	165	1	13.25	13.25	ppb	1.19	1000	
238 U	165	1	1.90	1.90	ppb	1.18	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	560958	0.49	562303	99.8	30 - 120	
45 Sc	1	2867454	1.21	2822427	101.6	30 - 120	
72 Ge	1	1724477	2.41	1718060	100.4	30 - 120	
115 In	1	4642475	0.97	4674536	99.3	30 - 120	
165 Ho	1	8759943	0.74	8873444	98.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\128SMPL.D\128SMPL.D#
Date Acquired:	Nov 8 2011 01:55 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-72-d
Misc Info:	
Vial Number:	3312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.21	0.21	ppb	18.56	3600	
51	V	72	1	20.52	20.52	ppb	1.29	3600	
52	Cr	72	1	8.82	8.82	ppb	1.79	3600	
55	Mn	72	1	26.89	26.89	ppb	2.31	18000	
59	Co	72	1	0.54	0.54	ppb	2.20	3600	
60	Ni	72	1	2.32	2.32	ppb	5.45	3600	
63	Cu	72	1	1.76	1.76	ppb	3.35	3600	
66	Zn	72	1	8.00	8.00	ppb	1.96	3600	
75	As	72	1	3.61	3.61	ppb	1.09	3600	
78	Se	72	1	0.88	0.88	ppb	3.04	3600	
95	Mo	72	1	1.04	1.04	ppb	1.56	3600	
107	Ag	115	1	0.03	0.03	ppb	7.80	3600	
111	Cd	115	1	0.02	0.02	ppb	122.92	3600	
118	Sn	115	1	0.19	0.19	ppb	4.91	3600	
121	Sb	115	1	0.01	0.01	ppb	12.94	3600	
137	Ba	115	1	4.57	4.57	ppb	1.17	3600	
205	Tl	165	1	0.11	0.11	ppb	0.41	3600	
208	Pb	165	1	27.53	27.53	ppb	1.56	3600	
232	Th	165	1	10.06	10.06	ppb	3.62	1000	
238	U	165	1	1.46	1.46	ppb	2.20	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	557749	0.63	562303	99.2	30 - 120	
45	Sc	1	2855076	0.91	2822427	101.2	30 - 120	
72	Ge	1	1708152	1.26	1718060	99.4	30 - 120	
115	In	1	4604016	0.99	4674536	98.5	30 - 120	
165	Ho	1	8845114	1.17	8873444	99.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\129SMPL.D\129SMPL.D#
Date Acquired:	Nov 8 2011 01:58 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-73-b
Misc Info:	
Vial Number:	3401
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.27	0.27	ppb	21.52	3600	
51	V	72	1	25.02	25.02	ppb	0.64	3600	
52	Cr	72	1	14.16	14.16	ppb	0.39	3600	
55	Mn	72	1	37.68	37.68	ppb	0.85	18000	
59	Co	72	1	1.15	1.15	ppb	2.52	3600	
60	Ni	72	1	5.11	5.11	ppb	2.32	3600	
63	Cu	72	1	2.92	2.92	ppb	0.68	3600	
66	Zn	72	1	12.44	12.44	ppb	1.88	3600	
75	As	72	1	4.10	4.10	ppb	0.15	3600	
78	Se	72	1	1.28	1.28	ppb	9.74	3600	
95	Mo	72	1	0.91	0.91	ppb	1.93	3600	
107	Ag	115	1	0.03	0.03	ppb	24.60	3600	
111	Cd	115	1	0.04	0.04	ppb	50.48	3600	
118	Sn	115	1	0.19	0.19	ppb	5.57	3600	
121	Sb	115	1	0.01	0.01	ppb	13.32	3600	
137	Ba	115	1	6.82	6.82	ppb	2.05	3600	
205	Tl	165	1	0.12	0.12	ppb	1.52	3600	
208	Pb	165	1	20.85	20.85	ppb	1.16	3600	
232	Th	165	1	10.48	10.48	ppb	1.20	1000	
238	U	165	1	1.60	1.60	ppb	2.00	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	556278	0.25	562303	98.9	30 - 120	
45	Sc	1	2859924	0.89	2822427	101.3	30 - 120	
72	Ge	1	1727369	1.35	1718060	100.5	30 - 120	
115	In	1	4633564	1.98	4674536	99.1	30 - 120	
165	Ho	1	8827931	1.12	8873444	99.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\130SMPL.D\130SMPL.D#
Date Acquired:	Nov 8 2011 02:01 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-74-b
Misc Info:	
Vial Number:	3402
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.16	0.16	ppb	27.98	3600	
51	V	72	1	17.73	17.73	ppb	0.49	3600	
52	Cr	72	1	8.33	8.33	ppb	1.42	3600	
55	Mn	72	1	33.14	33.14	ppb	1.20	18000	
59	Co	72	1	0.63	0.63	ppb	2.49	3600	
60	Ni	72	1	2.68	2.68	ppb	0.53	3600	
63	Cu	72	1	1.36	1.36	ppb	2.40	3600	
66	Zn	72	1	8.52	8.52	ppb	1.11	3600	
75	As	72	1	3.12	3.12	ppb	1.82	3600	
78	Se	72	1	0.98	0.98	ppb	12.72	3600	
95	Mo	72	1	0.57	0.57	ppb	5.84	3600	
107	Ag	115	1	0.02	0.02	ppb	15.49	3600	
111	Cd	115	1	0.04	0.04	ppb	74.43	3600	
118	Sn	115	1	0.17	0.17	ppb	2.32	3600	
121	Sb	115	1	0.01	0.01	ppb	7.85	3600	
137	Ba	115	1	5.21	5.21	ppb	2.09	3600	
205	Tl	165	1	0.09	0.09	ppb	0.67	3600	
208	Pb	165	1	18.84	18.84	ppb	2.11	3600	
232	Th	165	1	9.37	9.37	ppb	1.53	1000	
238	U	165	1	1.32	1.32	ppb	0.98	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	557975	0.91	562303	99.2	30 - 120	
45	Sc	1	2857215	0.62	2822427	101.2	30 - 120	
72	Ge	1	1724111	1.07	1718060	100.4	30 - 120	
115	In	1	4662168	1.69	4674536	99.7	30 - 120	
165	Ho	1	8956819	1.35	8873444	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\131SMPL.D\131SMPL.D#
Date Acquired:	Nov 8 2011 02:04 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-75-d
Misc Info:	
Vial Number:	3403
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.36	0.36	ppb	14.88	3600	
51	V	72	1	18.94	18.94	ppb	0.87	3600	
52	Cr	72	1	12.53	12.53	ppb	0.84	3600	
55	Mn	72	1	40.66	40.66	ppb	2.95	18000	
59	Co	72	1	1.28	1.28	ppb	0.94	3600	
60	Ni	72	1	5.35	5.35	ppb	1.19	3600	
63	Cu	72	1	2.06	2.06	ppb	0.52	3600	
66	Zn	72	1	11.69	11.69	ppb	0.30	3600	
75	As	72	1	3.77	3.77	ppb	1.86	3600	
78	Se	72	1	1.18	1.18	ppb	26.94	3600	
95	Mo	72	1	0.52	0.52	ppb	3.63	3600	
107	Ag	115	1	0.02	0.02	ppb	10.51	3600	
111	Cd	115	1	0.04	0.04	ppb	11.08	3600	
118	Sn	115	1	0.14	0.14	ppb	4.16	3600	
121	Sb	115	1	0.01	0.01	ppb	12.33	3600	
137	Ba	115	1	6.52	6.52	ppb	2.05	3600	
205	Tl	165	1	0.10	0.10	ppb	5.96	3600	
208	Pb	165	1	8.63	8.63	ppb	1.66	3600	
232	Th	165	1	9.51	9.51	ppb	3.04	1000	
238	U	165	1	1.62	1.62	ppb	2.91	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	559734	0.72	562303	99.5	30 - 120	
45	Sc	1	2907143	0.85	2822427	103.0	30 - 120	
72	Ge	1	1725493	0.75	1718060	100.4	30 - 120	
115	In	1	4643417	1.74	4674536	99.3	30 - 120	
165	Ho	1	8885070	1.47	8873444	100.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\132_CCV.D\132_CCV.D#
Date Acquired:	Nov 8 2011 02:07 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.53	ppb	1.79	50	101.1	90 - 110	
51	V	72	1	50.53	ppb	2.41	50	101.1	90 - 110	
52	Cr	72	1	51.28	ppb	2.58	50	102.6	90 - 110	
55	Mn	72	1	50.96	ppb	2.25	50	101.9	90 - 110	
59	Co	72	1	50.67	ppb	0.83	50	101.3	90 - 110	
60	Ni	72	1	49.97	ppb	0.66	50	99.9	90 - 110	
63	Cu	72	1	49.40	ppb	1.63	50	98.8	90 - 110	
66	Zn	72	1	50.02	ppb	1.06	50	100.0	90 - 110	
75	As	72	1	49.74	ppb	0.57	50	99.5	90 - 110	
78	Se	72	1	48.38	ppb	3.66	50	96.8	90 - 110	
95	Mo	72	1	49.33	ppb	1.89	50	98.7	90 - 110	
107	Ag	115	1	51.13	ppb	1.37	50	102.3	90 - 110	
111	Cd	115	1	49.98	ppb	0.65	50	100.0	90 - 110	
118	Sn	115	1	48.60	ppb	0.45	50	97.2	90 - 110	
121	Sb	115	1	48.93	ppb	0.74	50	97.9	90 - 110	
137	Ba	115	1	50.32	ppb	0.94	50	100.6	90 - 110	
205	Tl	165	1	51.35	ppb	1.03	50	102.7	90 - 110	
208	Pb	165	1	50.69	ppb	1.79	50	101.4	90 - 110	
232	Th	165	1	51.64	ppb	0.82	50	103.3	90 - 110	
238	U	165	1	52.16	ppb	2.35	50	104.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551015	0.16	562303	98.0	30 - 120	
45	Sc	1	2824921	0.64	2822427	100.1	30 - 120	
72	Ge	1	1719786	0.54	1718060	100.1	30 - 120	
115	In	1	4658796	1.27	4674536	99.7	30 - 120	
165	Ho	1	8830155	1.43	8873444	99.5	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\133_CCB.D\133_CCB.D#
Date Acquired:	Nov 8 2011 02:10 am
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.019	ppb	68.08	1.00	
51	V	72	1	0.021	ppb	28.52	1.00	
52	Cr	72	1	-0.005	ppb	483.40	1.00	
55	Mn	72	1	0.014	ppb	44.93	1.00	
59	Co	72	1	0.005	ppb	35.05	1.00	
60	Ni	72	1	0.006	ppb	152.80	1.00	
63	Cu	72	1	0.017	ppb	14.98	1.00	
66	Zn	72	1	0.048	ppb	9.03	1.00	
75	As	72	1	0.003	ppb	137.78	1.00	
78	Se	72	1	0.025	ppb	319.19	1.00	
95	Mo	72	1	0.004	ppb	42.77	1.00	
107	Ag	115	1	0.007	ppb	26.37	1.00	
111	Cd	115	1	0.006	ppb	72.80	1.00	
118	Sn	115	1	0.013	ppb	48.78	1.00	
121	Sb	115	1	0.012	ppb	5.59	1.00	
137	Ba	115	1	0.004	ppb	83.15	1.00	
205	Tl	165	1	0.014	ppb	13.44	1.00	
208	Pb	165	1	0.009	ppb	4.88	1.00	
232	Th	165	1	0.031	ppb	8.61	1.00	
238	U	165	1	0.009	ppb	1.49	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552764	1.11	562303	98.3	30 - 120	
45	Sc	1	2839975	0.53	2822427	100.6	30 - 120	
72	Ge	1	1704037	0.79	1718060	99.2	30 - 120	
115	In	1	4687693	1.45	4674536	100.3	30 - 120	
165	Ho	1	8811667	1.38	8873444	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\134WASH.D\134WASH.D#
Date Acquired:	Nov 8 2011 02:13 am
Operator:	LRD
Sample Name:	LLICV-1116520
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.130 ppb	5.26	1.30	
51 V	72	1	5.010 ppb	1.15	6.50	
52 Cr	72	1	2.257 ppb	2.55	2.60	
55 Mn	72	1	1.202 ppb	1.44	1.30	
59 Co	72	1	1.095 ppb	1.10	1.30	
60 Ni	72	1	2.298 ppb	2.32	2.60	
63 Cu	72	1	2.203 ppb	1.67	2.60	
66 Zn	72	1	10.490 ppb	1.29	13.00	
75 As	72	1	5.211 ppb	2.53	6.50	
78 Se	72	1	5.352 ppb	5.36	6.50	
95 Mo	72	1	2.156 ppb	4.43	2.60	
107 Ag	115	1	5.028 ppb	1.02	6.50	
111 Cd	115	1	1.086 ppb	3.86	1.30	
118 Sn	115	1	9.982 ppb	0.95	13.00	
121 Sb	115	1	2.054 ppb	0.87	2.60	
137 Ba	115	1	1.133 ppb	0.83	1.30	
205 Tl	165	1	1.115 ppb	0.74	1.30	
208 Pb	165	1	1.114 ppb	1.06	1.30	
232 Th	165	1	2.124 ppb	1.51	2.60	
238 U	165	1	1.122 ppb	1.64	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	552434	1.75	562303	98.2	30 - 120	
45 Sc	1	2834092	1.10	2822427	100.4	30 - 120	
72 Ge	1	1709208	1.53	1718060	99.5	30 - 120	
115 In	1	4667896	0.76	4674536	99.9	30 - 120	
165 Ho	1	8851852	0.95	8873444	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\135_BLK.D\135_BLK.D#
Date Acquired:	Nov 8 2011 02:16 am
Operator:	LRD
Sample Name:	mb 280-94176/1-a
Misc Info:	BLANK 94176 Soil 6020A
Vial Number:	3404
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.008 ppb	86.61	2.00	
51	V	72	1	0.026 ppb	47.02	2.00	
52	Cr	72	1	0.092 ppb	18.20	2.00	
55	Mn	72	1	0.110 ppb	5.72	2.00	
59	Co	72	1	-0.002 ppb	93.32	2.00	
60	Ni	72	1	0.105 ppb	8.35	2.00	
63	Cu	72	1	0.433 ppb	1.88	2.00	
66	Zn	72	1	0.714 ppb	3.16	2.00	
75	As	72	1	0.000 ppb	82327.00	2.00	
78	Se	72	1	0.192 ppb	137.28	2.00	
95	Mo	72	1	-0.004 ppb	100.90	2.00	
107	Ag	115	1	0.005 ppb	21.17	2.00	
111	Cd	115	1	0.004 ppb	71.81	2.00	
118	Sn	115	1	0.096 ppb	18.25	2.00	
121	Sb	115	1	0.004 ppb	34.12	2.00	
137	Ba	115	1	0.165 ppb	8.05	2.00	
205	Tl	165	1	0.003 ppb	28.26	2.00	
208	Pb	165	1	0.034 ppb	5.93	2.00	
232	Th	165	1	0.012 ppb	9.80	2.00	
238	U	165	1	0.005 ppb	12.39	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	561004	1.01	562303	99.8	30 - 120	
45	Sc	1	2854350	1.72	2822427	101.1	30 - 120	
72	Ge	1	1717904	0.76	1718060	100.0	30 - 120	
115	In	1	4619874	0.87	4674536	98.8	30 - 120	
165	Ho	1	8844148	0.76	8873444	99.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\136_LCS.D\136_LCS.D#
Date Acquired:	Nov 8 2011 02:19 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-94176/2-a
Misc Info:	LCS
Vial Number:	3405
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	39.01	0.59	40	97.5	80 - 120	
51 V	72	1	39.86	0.08	40	99.7	80 - 120	
52 Cr	72	1	40.50	1.50	40	101.3	80 - 120	
55 Mn	72	1	39.28	2.51	40	98.2	80 - 120	
59 Co	72	1	39.61	1.08	40	99.0	80 - 120	
60 Ni	72	1	39.10	1.14	40	97.8	80 - 120	
63 Cu	72	1	39.37	1.46	40	98.4	80 - 120	
66 Zn	72	1	39.01	1.40	40	97.5	80 - 120	
75 As	72	1	38.67	1.14	40	96.7	80 - 120	
78 Se	72	1	38.27	5.50	40	95.7	80 - 120	
95 Mo	72	1	39.21	1.36	40	98.0	80 - 120	
107 Ag	115	1	39.46	0.54	40	98.7	80 - 120	
111 Cd	115	1	39.30	0.42	40	98.3	80 - 120	
118 Sn	115	1	38.37	0.88	40	95.9	80 - 120	
121 Sb	115	1	38.26	0.92	40	95.7	80 - 120	
137 Ba	115	1	39.89	0.62	40	99.7	80 - 120	
205 Tl	165	1	40.82	1.59	40	102.1	80 - 120	
208 Pb	165	1	40.43	0.35	40	101.1	80 - 120	
232 Th	165	1	40.36	0.76	40	100.9	80 - 120	
238 U	165	1	41.99	1.63	40	105.0	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	559864	0.93	562303	99.6	30 - 120	
45 Sc	1	2846859	0.72	2822427	100.9	30 - 120	
72 Ge	1	1714825	0.83	1718060	99.8	30 - 120	
115 In	1	4662145	0.04	4674536	99.7	30 - 120	
165 Ho	1	8829284	0.75	8873444	99.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\137AREF.D\137AREF.D#
Date Acquired: Nov 8 2011 02:22 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21992-a-2-c
Misc Info:
Vial Number: 3406
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.09	2.09	ppb	6.01	3600	
51	V	72	1	112.30	112.30	ppb	1.37	3600	
52	Cr	72	1	41.91	41.91	ppb	2.43	3600	
55	Mn	72	1	877.00	877.00	ppb	0.73	18000	
59	Co	72	1	18.37	18.37	ppb	1.48	3600	
60	Ni	72	1	29.81	29.81	ppb	1.93	3600	
63	Cu	72	1	39.42	39.42	ppb	1.15	3600	
66	Zn	72	1	123.20	123.20	ppb	1.34	3600	
75	As	72	1	10.33	10.33	ppb	0.95	3600	
78	Se	72	1	2.47	2.47	ppb	4.48	3600	
95	Mo	72	1	0.70	0.70	ppb	2.65	3600	
107	Ag	115	1	0.16	0.16	ppb	4.74	3600	
111	Cd	115	1	0.99	0.99	ppb	1.14	3600	
118	Sn	115	1	0.17	0.17	ppb	4.50	3600	
121	Sb	115	1	0.03	0.03	ppb	3.94	3600	
137	Ba	115	1	1,199.00	1199.00	ppb	0.23	3600	
205	Tl	165	1	0.68	0.68	ppb	0.34	3600	
208	Pb	165	1	27.59	27.59	ppb	0.78	3600	
232	Th	165	1	21.78	21.78	ppb	2.33	1000	
238	U	165	1	3.25	3.25	ppb	1.37	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	509721	1.34	562303	90.6	30 - 120	
45	Sc	1	2797640	1.59	2822427	99.1	30 - 120	
72	Ge	1	1594972	1.88	1718060	92.8	30 - 120	
115	In	1	4277358	0.20	4674536	91.5	30 - 120	
165	Ho	1	8295895	0.70	8873444	93.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\138SDIL.D\138SDIL.D#
Date Acquired:	Nov 8 2011 02:25 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-2-c SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	3407
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110711.B\137AREF.D\137AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.43	ppb	17.24	0.42	102.1	90 - 110	
51	V	72	1	22.65	ppb	1.43	22.46	100.8	90 - 110	
52	Cr	72	1	8.39	ppb	2.19	8.38	100.1	90 - 110	
55	Mn	72	1	181.30	ppb	1.64	175.40	103.4	90 - 110	
59	Co	72	1	3.80	ppb	3.20	3.67	103.5	90 - 110	
60	Ni	72	1	6.25	ppb	1.57	5.96	104.9	90 - 110	
63	Cu	72	1	8.34	ppb	1.26	7.88	105.8	90 - 110	
66	Zn	72	1	26.05	ppb	1.61	24.64	105.7	90 - 110	
75	As	72	1	2.11	ppb	0.88	2.07	101.9	90 - 110	
78	Se	72	1	0.75	ppb	42.57	0.49	150.8	90 - 110	
95	Mo	72	1	0.13	ppb	10.04	0.14	93.7	90 - 110	
107	Ag	115	1	0.03	ppb	2.06	0.03	103.7	90 - 110	
111	Cd	115	1	0.18	ppb	10.06	0.20	89.6	90 - 110	
118	Sn	115	1	0.04	ppb	2.55	0.03	133.8	90 - 110	
121	Sb	115	1	0.01	ppb	8.24	0.01	94.5	90 - 110	
137	Ba	115	1	248.20	ppb	1.77	239.80	103.5	90 - 110	
205	Tl	165	1	0.13	ppb	1.72	0.14	97.5	90 - 110	
208	Pb	165	1	5.64	ppb	0.71	5.52	102.2	90 - 110	
232	Th	165	1	4.29	ppb	0.66	4.36	98.4	90 - 110	
238	U	165	1	0.66	ppb	1.00	0.65	101.8	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	523172	0.26	562303	93.0	30 - 120	
45	Sc	1	2779090	1.52	2822427	98.5	30 - 120	
72	Ge	1	1659686	1.69	1718060	96.6	30 - 120	
115	In	1	4520685	0.64	4674536	96.7	30 - 120	
165	Ho	1	8630209	0.64	8873444	97.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\139PDS.D\139PDS.D#
Date Acquired:	Nov 8 2011 02:27 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-2-c PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3408
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	200.00	2.09	ppb	0.84	200	99.0	75 - 125	
51	V	72	1	287.80	112.30	ppb	0.57	200	92.2	75 - 125	
52	Cr	72	1	223.90	41.91	ppb	2.39	200	92.6	75 - 125	
55	Mn	72	1	1004.00	877.00	ppb	1.26	200	93.2	75 - 125	
59	Co	72	1	198.90	18.37	ppb	0.27	200	91.1	75 - 125	
60	Ni	72	1	215.30	29.81	ppb	0.36	200	93.7	75 - 125	
63	Cu	72	1	211.90	39.42	ppb	0.15	200	88.5	75 - 125	
66	Zn	72	1	305.30	123.20	ppb	0.55	200	94.5	75 - 125	
75	As	72	1	198.60	10.33	ppb	0.48	200	94.4	75 - 125	
78	Se	72	1	183.00	2.47	ppb	2.32	200	90.4	75 - 125	
95	Mo	72	1	195.90	0.70	ppb	0.89	200	97.6	75 - 125	
107	Ag	115	1	47.32	0.16	ppb	0.84	50	94.3	75 - 125	
111	Cd	115	1	194.50	0.99	ppb	1.75	200	96.8	75 - 125	
118	Sn	115	1	193.80	0.17	ppb	2.28	200	96.8	75 - 125	
121	Sb	115	1	191.30	0.03	ppb	1.80	200	95.6	75 - 125	
137	Ba	115	1	1326.00	1199.00	ppb	2.31	200	94.8	75 - 125	
205	Tl	165	1	191.00	0.68	ppb	0.41	200	95.2	75 - 125	
208	Pb	165	1	213.50	27.59	ppb	0.50	200	93.8	75 - 125	
232	Th	165	1	20.85	21.78	ppb	0.96	200	9.4	75 - 125	
238	U	165	1	202.30	3.25	ppb	0.09	200	99.5	75 - 125	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	499956	1.23	562303	88.9	30 - 120	
45	Sc	1	2732616	0.62	2822427	96.8	30 - 120	
72	Ge	1	1589502	0.25	1718060	92.5	30 - 120	
115	In	1	4254341	1.14	4674536	91.0	30 - 120	
165	Ho	1	8320698	0.74	8873444	93.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\140_MS.D\140_MS.D#
Date Acquired:	Nov 8 2011 02:30 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-2-d ms
Misc Info:	MATRIX SPIKE
Vial Number:	3409
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00
Spike Ref. File:	---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	44.10	2.09	ppb	2.51	40	104.8	50 - 150	
51 V	72	1	162.00	112.30	ppb	1.24	40	106.4	50 - 150	
52 Cr	72	1	85.70	41.91	ppb	1.79	40	104.6	50 - 150	
55 Mn	72	1	930.60	877.00	ppb	2.29	40	101.5	50 - 150	
59 Co	72	1	60.01	18.37	ppb	0.87	40	102.8	50 - 150	
60 Ni	72	1	69.22	29.81	ppb	1.72	40	99.2	50 - 150	
63 Cu	72	1	80.80	39.42	ppb	1.38	40	101.7	50 - 150	
66 Zn	72	1	168.50	123.20	ppb	1.57	40	103.2	50 - 150	
75 As	72	1	49.33	10.33	ppb	1.43	40	98.0	50 - 150	
78 Se	72	1	39.04	2.47	ppb	4.71	40	91.9	50 - 150	
95 Mo	72	1	26.42	0.70	ppb	1.73	40	64.9	50 - 150	
107 Ag	115	1	37.94	0.16	ppb	1.39	40	94.5	50 - 150	
111 Cd	115	1	41.79	0.99	ppb	0.26	40	102.0	50 - 150	
118 Sn	115	1	2.61	0.17	ppb	1.10	40	6.5	50 - 150	
121 Sb	115	1	0.82	0.03	ppb	2.96	40	2.0	50 - 150	
137 Ba	115	1	1166.00	1199.00	ppb	0.56	40	94.1	50 - 150	
205 Tl	165	1	41.53	0.68	ppb	0.32	40	102.1	50 - 150	
208 Pb	165	1	68.99	27.59	ppb	0.73	40	102.1	50 - 150	
232 Th	165	1	63.67	21.78	ppb	0.22	40	103.1	50 - 150	
238 U	165	1	46.57	3.25	ppb	0.94	40	107.7	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	494516	1.25	562303	87.9	30 - 120	
45 Sc	1	2768255	0.95	2822427	98.1	30 - 120	
72 Ge	1	1572607	1.31	1718060	91.5	30 - 120	
115 In	1	4207873	0.51	4674536	90.0	30 - 120	
165 Ho	1	8266162	0.33	8873444	93.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\141_MSD.D\141_MSD.D#
Date Acquired:	Nov 8 2011 02:33 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-2-e msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	3410
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110711.B\140_MS.D\140_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	44.38	ppb	0.25	44.10	0.63	20	
51	V	72	1	145.00	ppb	1.94	162.00	11.07	20	
52	Cr	72	1	79.95	ppb	0.30	85.70	6.94	20	
55	Mn	72	1	857.70	ppb	2.00	930.60	8.15	20	
59	Co	72	1	56.83	ppb	1.54	60.01	5.44	20	
60	Ni	72	1	65.43	ppb	1.77	69.22	5.63	20	
63	Cu	72	1	75.29	ppb	1.65	80.80	7.06	20	
66	Zn	72	1	154.10	ppb	1.79	168.50	8.93	20	
75	As	72	1	47.72	ppb	1.30	49.33	3.32	20	
78	Se	72	1	37.79	ppb	2.90	39.04	3.25	20	
95	Mo	72	1	26.61	ppb	2.47	26.42	0.72	20	
107	Ag	115	1	37.53	ppb	1.58	37.94	1.09	20	
111	Cd	115	1	40.60	ppb	0.75	41.79	2.89	20	
118	Sn	115	1	2.77	ppb	1.44	2.61	5.80	20	
121	Sb	115	1	0.89	ppb	0.42	0.82	8.83	20	
137	Ba	115	1	1164.00	ppb	1.44	1166.00	0.17	20	
205	Tl	165	1	41.36	ppb	0.23	41.53	0.41	20	
208	Pb	165	1	66.26	ppb	1.09	68.99	4.04	20	
232	Th	165	1	62.60	ppb	0.96	63.67	1.69	20	
238	U	165	1	46.40	ppb	1.13	46.57	0.37	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	494681	1.09	562303	88.0	30 - 120	
45	Sc	1	2770117	1.23	2822427	98.1	30 - 120	
72	Ge	1	1578387	2.06	1718060	91.9	30 - 120	
115	In	1	4245665	1.76	4674536	90.8	30 - 120	
165	Ho	1	8179448	0.20	8873444	92.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\142SMPL.D\142SMPL.D#
Date Acquired:	Nov 8 2011 02:36 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-3-e
Misc Info:	
Vial Number:	3411
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.62	2.62	ppb	10.43	3600	
51	V	72	1	66.75	66.75	ppb	1.22	3600	
52	Cr	72	1	26.89	26.89	ppb	0.99	3600	
55	Mn	72	1	223.50	223.50	ppb	1.02	18000	
59	Co	72	1	26.12	26.12	ppb	1.94	3600	
60	Ni	72	1	31.38	31.38	ppb	1.40	3600	
63	Cu	72	1	62.42	62.42	ppb	1.86	3600	
66	Zn	72	1	211.20	211.20	ppb	1.38	3600	
75	As	72	1	34.92	34.92	ppb	0.75	3600	
78	Se	72	1	2.73	2.73	ppb	6.09	3600	
95	Mo	72	1	0.61	0.61	ppb	3.43	3600	
107	Ag	115	1	0.10	0.10	ppb	6.27	3600	
111	Cd	115	1	0.99	0.99	ppb	6.58	3600	
118	Sn	115	1	0.10	0.10	ppb	8.26	3600	
121	Sb	115	1	0.01	0.01	ppb	7.93	3600	
137	Ba	115	1	91.08	91.08	ppb	1.25	3600	
205	Tl	165	1	1.42	1.42	ppb	1.44	3600	
208	Pb	165	1	26.87	26.87	ppb	1.46	3600	
232	Th	165	1	19.98	19.98	ppb	0.77	1000	
238	U	165	1	4.99	4.99	ppb	1.96	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	502660	0.98	562303	89.4	30 - 120	
45	Sc	1	2871732	1.45	2822427	101.7	30 - 120	
72	Ge	1	1637344	2.01	1718060	95.3	30 - 120	
115	In	1	4407300	1.05	4674536	94.3	30 - 120	
165	Ho	1	8530294	1.57	8873444	96.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\143SMPL.D\143SMPL.D#
Date Acquired:	Nov 8 2011 02:39 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-4-c
Misc Info:	
Vial Number:	3412
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.31	2.31	ppb	7.17	3600	
51	V	72	1	60.91	60.91	ppb	1.21	3600	
52	Cr	72	1	25.57	25.57	ppb	1.18	3600	
55	Mn	72	1	288.80	288.80	ppb	1.59	18000	
59	Co	72	1	36.99	36.99	ppb	2.31	3600	
60	Ni	72	1	30.46	30.46	ppb	1.96	3600	
63	Cu	72	1	55.80	55.80	ppb	3.66	3600	
66	Zn	72	1	170.80	170.80	ppb	0.97	3600	
75	As	72	1	28.47	28.47	ppb	1.15	3600	
78	Se	72	1	2.62	2.62	ppb	18.53	3600	
95	Mo	72	1	0.54	0.54	ppb	2.76	3600	
107	Ag	115	1	0.10	0.10	ppb	8.57	3600	
111	Cd	115	1	0.92	0.92	ppb	4.13	3600	
118	Sn	115	1	0.06	0.06	ppb	12.33	3600	
121	Sb	115	1	0.01	0.01	ppb	9.13	3600	
137	Ba	115	1	83.51	83.51	ppb	0.87	3600	
205	Tl	165	1	1.27	1.27	ppb	0.93	3600	
208	Pb	165	1	23.06	23.06	ppb	1.03	3600	
232	Th	165	1	18.24	18.24	ppb	2.59	1000	
238	U	165	1	4.50	4.50	ppb	1.11	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	503537	0.46	562303	89.5	30 - 120	
45	Sc	1	2851456	1.41	2822427	101.0	30 - 120	
72	Ge	1	1646833	0.45	1718060	95.9	30 - 120	
115	In	1	4423999	0.63	4674536	94.6	30 - 120	
165	Ho	1	8550267	0.24	8873444	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\144_CCV.D\144_CCV.D#
Date Acquired:	Nov 8 2011 02:42 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.42	ppb	1.09	50	100.8	90 - 110	
51	V	72	1	50.22	ppb	1.06	50	100.4	90 - 110	
52	Cr	72	1	49.79	ppb	0.59	50	99.6	90 - 110	
55	Mn	72	1	49.95	ppb	1.13	50	99.9	90 - 110	
59	Co	72	1	49.73	ppb	1.89	50	99.5	90 - 110	
60	Ni	72	1	49.19	ppb	1.30	50	98.4	90 - 110	
63	Cu	72	1	49.70	ppb	1.53	50	99.4	90 - 110	
66	Zn	72	1	49.53	ppb	0.63	50	99.1	90 - 110	
75	As	72	1	49.78	ppb	0.90	50	99.6	90 - 110	
78	Se	72	1	48.62	ppb	1.76	50	97.2	90 - 110	
95	Mo	72	1	49.46	ppb	0.59	50	98.9	90 - 110	
107	Ag	115	1	50.82	ppb	0.63	50	101.6	90 - 110	
111	Cd	115	1	49.94	ppb	0.44	50	99.9	90 - 110	
118	Sn	115	1	48.75	ppb	0.92	50	97.5	90 - 110	
121	Sb	115	1	48.80	ppb	0.69	50	97.6	90 - 110	
137	Ba	115	1	50.29	ppb	1.08	50	100.6	90 - 110	
205	Tl	165	1	52.38	ppb	0.74	50	104.8	90 - 110	
208	Pb	165	1	50.41	ppb	1.16	50	100.8	90 - 110	
232	Th	165	1	51.80	ppb	1.53	50	103.6	90 - 110	
238	U	165	1	51.76	ppb	2.83	50	103.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	520014	0.46	562303	92.5	30 - 120	
45	Sc	1	2760606	0.37	2822427	97.8	30 - 120	
72	Ge	1	1694802	1.13	1718060	98.6	30 - 120	
115	In	1	4605197	0.61	4674536	98.5	30 - 120	
165	Ho	1	8694915	0.82	8873444	98.0	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\145_CCB.D\145_CCB.D#
Date Acquired:	Nov 8 2011 02:45 am
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.019	ppb	86.73	1.00	
51	V	72	1	0.015	ppb	76.14	1.00	
52	Cr	72	1	0.017	ppb	168.09	1.00	
55	Mn	72	1	0.055	ppb	14.95	1.00	
59	Co	72	1	0.009	ppb	22.03	1.00	
60	Ni	72	1	0.014	ppb	67.54	1.00	
63	Cu	72	1	0.032	ppb	11.05	1.00	
66	Zn	72	1	0.056	ppb	36.39	1.00	
75	As	72	1	0.012	ppb	56.99	1.00	
78	Se	72	1	0.328	ppb	62.52	1.00	
95	Mo	72	1	0.004	ppb	8.68	1.00	
107	Ag	115	1	0.013	ppb	29.61	1.00	
111	Cd	115	1	0.008	ppb	46.98	1.00	
118	Sn	115	1	0.028	ppb	26.77	1.00	
121	Sb	115	1	0.014	ppb	19.89	1.00	
137	Ba	115	1	0.041	ppb	16.37	1.00	
205	Tl	165	1	0.019	ppb	13.92	1.00	
208	Pb	165	1	0.011	ppb	24.90	1.00	
232	Th	165	1	0.025	ppb	18.61	1.00	
238	U	165	1	0.012	ppb	11.55	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	479534	7.45	562303	85.3	30 - 120	
45	Sc	1	2501375	8.18	2822427	88.6	30 - 120	
72	Ge	1	1539157	8.13	1718060	89.6	30 - 120	
115	In	1	4132061	8.52	4674536	88.4	30 - 120	
165	Ho	1	7774026	8.84	8873444	87.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\146WASH.D\146WASH.D#
Date Acquired:	Nov 8 2011 02:47 am
Operator:	LRD
Sample Name:	LLICV-1116520
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.075 ppb	19.70	1.30	
51	V	72	1	4.957 ppb	1.93	6.50	
52	Cr	72	1	2.200 ppb	1.13	2.60	
55	Mn	72	1	1.192 ppb	1.85	1.30	
59	Co	72	1	1.074 ppb	1.26	1.30	
60	Ni	72	1	2.214 ppb	2.74	2.60	
63	Cu	72	1	2.147 ppb	1.82	2.60	
66	Zn	72	1	10.360 ppb	0.11	13.00	
75	As	72	1	5.156 ppb	1.14	6.50	
78	Se	72	1	5.216 ppb	2.51	6.50	
95	Mo	72	1	2.086 ppb	1.74	2.60	
107	Ag	115	1	5.163 ppb	1.21	6.50	
111	Cd	115	1	1.097 ppb	2.52	1.30	
118	Sn	115	1	9.900 ppb	0.71	13.00	
121	Sb	115	1	2.048 ppb	2.38	2.60	
137	Ba	115	1	1.152 ppb	2.88	1.30	
205	Tl	165	1	1.127 ppb	1.02	1.30	
208	Pb	165	1	1.114 ppb	0.22	1.30	
232	Th	165	1	2.161 ppb	3.13	2.60	
238	U	165	1	1.126 ppb	0.74	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	523975	0.46	562303	93.2	30 - 120	
45	Sc	1	2793859	1.72	2822427	99.0	30 - 120	
72	Ge	1	1696345	1.61	1718060	98.7	30 - 120	
115	In	1	4574190	1.69	4674536	97.9	30 - 120	
165	Ho	1	8668365	0.25	8873444	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\147SMPL.D\147SMPL.D#
Date Acquired:	Nov 8 2011 02:50 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-7-c
Misc Info:	
Vial Number:	3501
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.90	1.90	ppb	5.19	3600	
51	V	72	1	91.92	91.92	ppb	1.03	3600	
52	Cr	72	1	38.31	38.31	ppb	1.33	3600	
55	Mn	72	1	725.00	725.00	ppb	0.56	18000	
59	Co	72	1	17.08	17.08	ppb	0.17	3600	
60	Ni	72	1	31.14	31.14	ppb	0.37	3600	
63	Cu	72	1	32.71	32.71	ppb	0.34	3600	
66	Zn	72	1	115.50	115.50	ppb	0.15	3600	
75	As	72	1	11.27	11.27	ppb	0.84	3600	
78	Se	72	1	2.89	2.89	ppb	10.78	3600	
95	Mo	72	1	0.79	0.79	ppb	3.64	3600	
107	Ag	115	1	0.17	0.17	ppb	8.35	3600	
111	Cd	115	1	0.97	0.97	ppb	3.82	3600	
118	Sn	115	1	0.19	0.19	ppb	12.74	3600	
121	Sb	115	1	0.03	0.03	ppb	9.81	3600	
137	Ba	115	1	456.80	456.80	ppb	0.59	3600	
205	Tl	165	1	0.65	0.65	ppb	1.71	3600	
208	Pb	165	1	26.87	26.87	ppb	0.70	3600	
232	Th	165	1	24.50	24.50	ppb	0.94	1000	
238	U	165	1	2.79	2.79	ppb	0.70	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	487669	0.23	562303	86.7	30 - 120	
45	Sc	1	2704530	1.85	2822427	95.8	30 - 120	
72	Ge	1	1563768	0.89	1718060	91.0	30 - 120	
115	In	1	4212844	1.39	4674536	90.1	30 - 120	
165	Ho	1	8113270	0.69	8873444	91.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\148SMPL.D\148SMPL.D#
Date Acquired: Nov 8 2011 02:53 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21992-a-8-d
Misc Info:
Vial Number: 3502
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.15	1.15	ppb	15.74	3600	
51	V	72	1	49.65	49.65	ppb	0.47	3600	
52	Cr	72	1	8.96	8.96	ppb	2.09	3600	
55	Mn	72	1	452.40	452.40	ppb	0.48	18000	
59	Co	72	1	26.18	26.18	ppb	0.46	3600	
60	Ni	72	1	20.60	20.60	ppb	1.17	3600	
63	Cu	72	1	13.89	13.89	ppb	0.15	3600	
66	Zn	72	1	66.98	66.98	ppb	1.35	3600	
75	As	72	1	11.73	11.73	ppb	1.27	3600	
78	Se	72	1	0.69	0.69	ppb	24.93	3600	
95	Mo	72	1	0.95	0.95	ppb	1.55	3600	
107	Ag	115	1	0.04	0.04	ppb	5.81	3600	
111	Cd	115	1	0.33	0.33	ppb	5.06	3600	
118	Sn	115	1	0.08	0.08	ppb	6.45	3600	
121	Sb	115	1	0.01	0.01	ppb	1.38	3600	
137	Ba	115	1	559.90	559.90	ppb	1.71	3600	
205	Tl	165	1	0.20	0.20	ppb	1.33	3600	
208	Pb	165	1	7.63	7.63	ppb	0.33	3600	
232	Th	165	1	7.77	7.77	ppb	1.15	1000	
238	U	165	1	2.60	2.60	ppb	0.60	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	503103	0.71	562303	89.5	30 - 120	
45	Sc	1	2788969	0.88	2822427	98.8	30 - 120	
72	Ge	1	1662197	0.49	1718060	96.7	30 - 120	
115	In	1	4407655	1.04	4674536	94.3	30 - 120	
165	Ho	1	8475313	0.23	8873444	95.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\149SMPL.D\149SMPL.D#
Date Acquired:	Nov 8 2011 02:56 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-9-c
Misc Info:	
Vial Number:	3503
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.09	2.09	ppb	6.63	3600	
51	V	72	1	80.37	80.37	ppb	1.09	3600	
52	Cr	72	1	38.91	38.91	ppb	1.32	3600	
55	Mn	72	1	992.70	992.70	ppb	1.31	18000	
59	Co	72	1	18.05	18.05	ppb	0.69	3600	
60	Ni	72	1	30.88	30.88	ppb	0.56	3600	
63	Cu	72	1	35.29	35.29	ppb	1.11	3600	
66	Zn	72	1	130.30	130.30	ppb	0.52	3600	
75	As	72	1	10.08	10.08	ppb	1.16	3600	
78	Se	72	1	3.11	3.11	ppb	14.52	3600	
95	Mo	72	1	0.66	0.66	ppb	1.42	3600	
107	Ag	115	1	0.21	0.21	ppb	3.44	3600	
111	Cd	115	1	0.96	0.96	ppb	1.92	3600	
118	Sn	115	1	0.15	0.15	ppb	7.50	3600	
121	Sb	115	1	0.02	0.02	ppb	12.73	3600	
137	Ba	115	1	452.90	452.90	ppb	0.37	3600	
205	Tl	165	1	0.69	0.69	ppb	2.33	3600	
208	Pb	165	1	29.98	29.98	ppb	0.94	3600	
232	Th	165	1	25.56	25.56	ppb	3.25	1000	
238	U	165	1	2.66	2.66	ppb	1.94	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	488374	0.51	562303	86.9	30 - 120	
45	Sc	1	2704369	0.46	2822427	95.8	30 - 120	
72	Ge	1	1583991	0.16	1718060	92.2	30 - 120	
115	In	1	4287543	1.15	4674536	91.7	30 - 120	
165	Ho	1	8287423	0.86	8873444	93.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\150SMPL.D\150SMPL.D#
Date Acquired:	Nov 8 2011 02:59 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-10-c
Misc Info:	
Vial Number:	3504
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.67	1.67	ppb	16.93	3600	
51	V	72	1	87.65	87.65	ppb	0.77	3600	
52	Cr	72	1	36.99	36.99	ppb	1.39	3600	
55	Mn	72	1	2,212.00	2212.00	ppb	1.67	18000	
59	Co	72	1	21.23	21.23	ppb	2.05	3600	
60	Ni	72	1	29.19	29.19	ppb	1.24	3600	
63	Cu	72	1	44.53	44.53	ppb	1.76	3600	
66	Zn	72	1	175.80	175.80	ppb	0.78	3600	
75	As	72	1	9.87	9.87	ppb	1.28	3600	
78	Se	72	1	1.67	1.67	ppb	24.60	3600	
95	Mo	72	1	0.42	0.42	ppb	5.81	3600	
107	Ag	115	1	0.07	0.07	ppb	4.22	3600	
111	Cd	115	1	0.91	0.91	ppb	4.73	3600	
118	Sn	115	1	0.11	0.11	ppb	0.43	3600	
121	Sb	115	1	0.01	0.01	ppb	14.27	3600	
137	Ba	115	1	95.39	95.39	ppb	1.29	3600	
205	Tl	165	1	0.63	0.63	ppb	0.60	3600	
208	Pb	165	1	17.11	17.11	ppb	0.29	3600	
232	Th	165	1	12.33	12.33	ppb	0.89	1000	
238	U	165	1	5.12	5.12	ppb	0.81	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	491366	0.88	562303	87.4	30 - 120	
45	Sc	1	2772721	0.67	2822427	98.2	30 - 120	
72	Ge	1	1601483	1.81	1718060	93.2	30 - 120	
115	In	1	4316409	1.19	4674536	92.3	30 - 120	
165	Ho	1	8418387	0.76	8873444	94.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\151_CCV.D\151_CCV.D#
Date Acquired: Nov 8 2011 03:02 am
Operator: LRD
Sample Name: CCV-1116521
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 12:29 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.87	ppb	3.23	50	103.7	90 - 110	
51	V	72	1	50.56	ppb	1.24	50	101.1	90 - 110	
52	Cr	72	1	49.78	ppb	1.50	50	99.6	90 - 110	
55	Mn	72	1	50.12	ppb	0.89	50	100.2	90 - 110	
59	Co	72	1	49.90	ppb	0.38	50	99.8	90 - 110	
60	Ni	72	1	49.10	ppb	0.59	50	98.2	90 - 110	
63	Cu	72	1	49.52	ppb	0.72	50	99.0	90 - 110	
66	Zn	72	1	50.10	ppb	1.04	50	100.2	90 - 110	
75	As	72	1	50.24	ppb	0.33	50	100.5	90 - 110	
78	Se	72	1	49.12	ppb	1.48	50	98.2	90 - 110	
95	Mo	72	1	49.47	ppb	0.58	50	98.9	90 - 110	
107	Ag	115	1	50.60	ppb	0.85	50	101.2	90 - 110	
111	Cd	115	1	49.99	ppb	1.21	50	100.0	90 - 110	
118	Sn	115	1	48.40	ppb	1.62	50	96.8	90 - 110	
121	Sb	115	1	48.57	ppb	1.93	50	97.1	90 - 110	
137	Ba	115	1	49.75	ppb	2.14	50	99.5	90 - 110	
205	Tl	165	1	51.99	ppb	0.29	50	104.0	90 - 110	
208	Pb	165	1	51.45	ppb	0.77	50	102.9	90 - 110	
232	Th	165	1	52.90	ppb	1.21	50	105.8	90 - 110	
238	U	165	1	53.00	ppb	0.47	50	106.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501349	1.76	562303	89.2	30 - 120	
45	Sc	1	2683273	0.80	2822427	95.1	30 - 120	
72	Ge	1	1648769	1.25	1718060	96.0	30 - 120	
115	In	1	4542747	0.96	4674536	97.2	30 - 120	
165	Ho	1	8493060	0.80	8873444	95.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\152_CCB.D\152_CCB.D#
Date Acquired: Nov 8 2011 03:05 am
Operator: LRD
Sample Name: CCB-1116509
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 12:29 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.013	ppb	100.08	1.00	
51	V	72	1	0.034	ppb	73.63	1.00	
52	Cr	72	1	-0.018	ppb	134.26	1.00	
55	Mn	72	1	0.082	ppb	19.01	1.00	
59	Co	72	1	0.005	ppb	11.43	1.00	
60	Ni	72	1	0.013	ppb	87.73	1.00	
63	Cu	72	1	0.025	ppb	6.88	1.00	
66	Zn	72	1	0.044	ppb	12.60	1.00	
75	As	72	1	0.007	ppb	58.42	1.00	
78	Se	72	1	0.008	ppb	1568.30	1.00	
95	Mo	72	1	-0.001	ppb	298.31	1.00	
107	Ag	115	1	0.010	ppb	40.95	1.00	
111	Cd	115	1	0.004	ppb	94.41	1.00	
118	Sn	115	1	0.020	ppb	19.06	1.00	
121	Sb	115	1	0.013	ppb	9.75	1.00	
137	Ba	115	1	0.026	ppb	40.32	1.00	
205	Tl	165	1	0.010	ppb	5.57	1.00	
208	Pb	165	1	0.007	ppb	6.61	1.00	
232	Th	165	1	0.019	ppb	4.62	1.00	
238	U	165	1	0.009	ppb	2.29	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	506937	0.56	562303	90.2	30 - 120	
45	Sc	1	2720175	0.90	2822427	96.4	30 - 120	
72	Ge	1	1669465	1.01	1718060	97.2	30 - 120	
115	In	1	4522011	2.20	4674536	96.7	30 - 120	
165	Ho	1	8514320	0.79	8873444	96.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\153WASH.D\153WASH.D#
Date Acquired:	Nov 8 2011 03:08 am
Operator:	LRD
Sample Name:	LLICV-1116520
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.282	ppb	15.79	1.30	
51	V	72	1	5.129	ppb	0.77	6.50	
52	Cr	72	1	2.222	ppb	2.00	2.60	
55	Mn	72	1	1.212	ppb	0.58	1.30	
59	Co	72	1	1.085	ppb	1.98	1.30	
60	Ni	72	1	2.278	ppb	0.85	2.60	
63	Cu	72	1	2.184	ppb	1.06	2.60	
66	Zn	72	1	10.520	ppb	0.85	13.00	
75	As	72	1	5.178	ppb	1.73	6.50	
78	Se	72	1	5.471	ppb	1.83	6.50	
95	Mo	72	1	2.145	ppb	2.22	2.60	
107	Ag	115	1	5.146	ppb	0.71	6.50	
111	Cd	115	1	1.099	ppb	1.70	1.30	
118	Sn	115	1	10.010	ppb	0.35	13.00	
121	Sb	115	1	2.042	ppb	0.66	2.60	
137	Ba	115	1	1.136	ppb	0.89	1.30	
205	Tl	165	1	1.139	ppb	1.07	1.30	
208	Pb	165	1	1.115	ppb	1.30	1.30	
232	Th	165	1	2.182	ppb	1.95	2.60	
238	U	165	1	1.122	ppb	1.29	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	508280	0.51	562303	90.4	30 - 120	
45	Sc	1	2735055	1.08	2822427	96.9	30 - 120	
72	Ge	1	1657142	0.77	1718060	96.5	30 - 120	
115	In	1	4525975	0.73	4674536	96.8	30 - 120	
165	Ho	1	8589179	0.81	8873444	96.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\154_BLK.D\154_BLK.D#
Date Acquired: Nov 8 2011 03:11 am
Operator: LRD
Sample Name: mb 280-94651/1-a
Misc Info: BLANK 94651 DOD4/ 6020A
Vial Number: 3505
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 12:29 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.008 ppb	86.61	2.00	
51 V	72	1	0.040 ppb	29.34	2.00	
52 Cr	72	1	0.215 ppb	4.58	2.00	
55 Mn	72	1	0.180 ppb	3.39	2.00	
59 Co	72	1	0.007 ppb	44.46	2.00	
60 Ni	72	1	0.031 ppb	17.94	2.00	
63 Cu	72	1	0.131 ppb	7.37	2.00	
66 Zn	72	1	1.639 ppb	1.80	2.00	
75 As	72	1	0.025 ppb	34.61	2.00	
78 Se	72	1	-0.006 ppb	1906.40	2.00	
95 Mo	72	1	0.015 ppb	70.02	2.00	
107 Ag	115	1	0.004 ppb	45.27	2.00	
111 Cd	115	1	0.009 ppb	44.38	2.00	
118 Sn	115	1	0.063 ppb	9.62	2.00	
121 Sb	115	1	0.009 ppb	21.10	2.00	
137 Ba	115	1	0.265 ppb	5.24	2.00	
205 Tl	165	1	0.031 ppb	6.37	2.00	
208 Pb	165	1	0.051 ppb	3.99	2.00	
232 Th	165	1	0.019 ppb	9.73	2.00	
238 U	165	1	0.024 ppb	5.24	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	522498	0.95	562303	92.9	30 - 120	
45 Sc	1	2778794	1.76	2822427	98.5	30 - 120	
72 Ge	1	1675669	1.27	1718060	97.5	30 - 120	
115 In	1	4590385	2.17	4674536	98.2	30 - 120	
165 Ho	1	8755911	0.50	8873444	98.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\155_LCS.D\155_LCS.D#
Date Acquired:	Nov 8 2011 03:14 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-94651/2-a
Misc Info:	LCS
Vial Number:	3506
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	42.42	2.09	40	106.1	80 - 120	
51	V	72	1	42.32	1.51	40	105.8	80 - 120	
52	Cr	72	1	42.60	2.16	40	106.5	80 - 120	
55	Mn	72	1	41.89	1.24	40	104.7	80 - 120	
59	Co	72	1	42.52	2.47	40	106.3	80 - 120	
60	Ni	72	1	41.78	2.23	40	104.5	80 - 120	
63	Cu	72	1	41.37	2.34	40	103.4	80 - 120	
66	Zn	72	1	41.38	2.59	40	103.5	80 - 120	
75	As	72	1	40.39	2.51	40	101.0	80 - 120	
78	Se	72	1	39.55	5.08	40	98.9	80 - 120	
95	Mo	72	1	42.17	1.76	40	105.4	80 - 120	
107	Ag	115	1	43.04	4.57	40	107.6	80 - 120	
111	Cd	115	1	42.04	3.70	40	105.1	80 - 120	
118	Sn	115	1	41.68	2.33	40	104.2	80 - 120	
121	Sb	115	1	40.63	3.24	40	101.6	80 - 120	
137	Ba	115	1	42.78	2.70	40	107.0	80 - 120	
205	Tl	165	1	44.12	4.59	40	110.3	80 - 120	
208	Pb	165	1	43.42	4.80	40	108.6	80 - 120	
232	Th	165	1	45.20	5.98	40	113.0	80 - 120	
238	U	165	1	44.97	4.62	40	112.4	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	512386	3.01	562303	91.1	30 - 120	
45	Sc	1	2719592	5.27	2822427	96.4	30 - 120	
72	Ge	1	1666803	2.66	1718060	97.0	30 - 120	
115	In	1	4490230	3.72	4674536	96.1	30 - 120	
165	Ho	1	8575577	5.02	8873444	96.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Labratory Control Spike Duplicate Sample (LCSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\156LCSD.D\156LCSD.D#
Date Acquired: Nov 8 2011 03:16 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcsd 280-94651/3-a
Misc Info: LCSD
Vial Number: 3507
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: LCSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110711.B\155_LCS.D\155_LCS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9	Be	6	1	40.75	ppb	2.56	42.42	4.02	2000	
51	V	72	1	41.05	ppb	1.02	42.32	3.05	2000	
52	Cr	72	1	42.37	ppb	0.80	42.60	0.54	2000	
55	Mn	72	1	41.56	ppb	2.88	41.89	0.79	2000	
59	Co	72	1	42.37	ppb	0.77	42.52	0.35	2000	
60	Ni	72	1	41.24	ppb	1.21	41.78	1.30	2000	
63	Cu	72	1	41.88	ppb	0.54	41.37	1.23	2000	
66	Zn	72	1	40.57	ppb	0.71	41.38	1.98	2000	
75	As	72	1	39.79	ppb	0.92	40.39	1.50	2000	
78	Se	72	1	38.53	ppb	6.00	39.55	2.61	2000	
95	Mo	72	1	41.81	ppb	0.61	42.17	0.86	2000	
107	Ag	115	1	41.86	ppb	1.34	43.04	2.78	2000	
111	Cd	115	1	40.25	ppb	0.68	42.04	4.35	2000	
118	Sn	115	1	40.56	ppb	0.50	41.68	2.72	2000	
121	Sb	115	1	39.24	ppb	0.79	40.63	3.48	2000	
137	Ba	115	1	41.49	ppb	0.49	42.78	3.06	2000	
205	Tl	165	1	42.12	ppb	1.39	44.12	4.64	2000	
208	Pb	165	1	41.25	ppb	1.41	43.42	5.13	2000	
232	Th	165	1	42.86	ppb	1.69	45.20	5.31	2000	
238	U	165	1	43.33	ppb	2.41	44.97	3.71	2000	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	519800	0.16	562303	92.4	30 - 120	
45	Sc	1	2735609	0.44	2822427	96.9	30 - 120	
72	Ge	1	1650425	0.39	1718060	96.1	30 - 120	
115	In	1	4569095	0.33	4674536	97.7	30 - 120	
165	Ho	1	8836147	0.91	8873444	99.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\157AREF.D\157AREF.D#
Date Acquired:	Nov 8 2011 03:19 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-6-b
Misc Info:	
Vial Number:	3508
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.12	0.12	ppb	11.06	3600	
51	V	72	1	2.55	2.55	ppb	2.00	3600	
52	Cr	72	1	1.02	1.02	ppb	2.95	3600	
55	Mn	72	1	23.15	23.15	ppb	0.79	18000	
59	Co	72	1	0.52	0.52	ppb	3.17	3600	
60	Ni	72	1	0.82	0.82	ppb	1.12	3600	
63	Cu	72	1	2.71	2.71	ppb	1.71	3600	
66	Zn	72	1	5.72	5.72	ppb	0.26	3600	
75	As	72	1	0.33	0.33	ppb	7.30	3600	
78	Se	72	1	0.18	0.18	ppb	97.10	3600	
95	Mo	72	1	0.05	0.05	ppb	16.99	3600	
107	Ag	115	1	0.01	0.01	ppb	18.09	3600	
111	Cd	115	1	0.03	0.03	ppb	6.30	3600	
118	Sn	115	1	0.11	0.11	ppb	8.69	3600	
121	Sb	115	1	0.06	0.06	ppb	7.24	3600	
137	Ba	115	1	6.49	6.49	ppb	2.10	3600	
205	Tl	165	1	0.07	0.07	ppb	2.40	3600	
208	Pb	165	1	0.97	0.97	ppb	2.33	3600	
232	Th	165	1	0.43	0.43	ppb	1.87	1000	
238	U	165	1	0.22	0.22	ppb	15.13	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	522671	1.43	562303	93.0	30 - 120	
45	Sc	1	2759395	1.79	2822427	97.8	30 - 120	
72	Ge	1	1643254	1.14	1718060	95.6	30 - 120	
115	In	1	4567737	2.31	4674536	97.7	30 - 120	
165	Ho	1	8575449	1.55	8873444	96.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\158SDIL.D\158SDIL.D#
Date Acquired: Nov 8 2011 03:22 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21992-a-6-b SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3509
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110711.B\157AREF.D\157AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.04	ppb	0.75	0.02	152.2	90 - 110	
51	V	72	1	0.53	ppb	0.31	0.51	104.3	90 - 110	
52	Cr	72	1	0.19	ppb	8.87	0.20	94.3	90 - 110	
55	Mn	72	1	4.54	ppb	0.70	4.63	98.0	90 - 110	
59	Co	72	1	0.11	ppb	4.57	0.10	101.9	90 - 110	
60	Ni	72	1	0.15	ppb	6.05	0.16	93.7	90 - 110	
63	Cu	72	1	0.57	ppb	5.40	0.54	105.9	90 - 110	
66	Zn	72	1	1.16	ppb	0.36	1.14	101.7	90 - 110	
75	As	72	1	0.06	ppb	15.23	0.07	92.0	90 - 110	
78	Se	72	1	0.20	ppb	30.73	0.04	548.2	90 - 110	
95	Mo	72	1	0.01	ppb	21.71	0.01	69.2	90 - 110	
107	Ag	115	1	0.00	ppb	49.57	0.00	101.6	90 - 110	
111	Cd	115	1	0.01	ppb	65.68	0.01	153.2	90 - 110	
118	Sn	115	1	0.07	ppb	11.73	0.02	354.9	90 - 110	
121	Sb	115	1	0.01	ppb	21.12	0.01	123.1	90 - 110	
137	Ba	115	1	1.29	ppb	3.79	1.30	99.5	90 - 110	
205	Tl	165	1	0.02	ppb	4.52	0.01	128.4	90 - 110	
208	Pb	165	1	0.19	ppb	1.79	0.19	100.3	90 - 110	
232	Th	165	1	0.09	ppb	21.30	0.09	108.1	90 - 110	
238	U	165	1	0.04	ppb	1.37	0.04	93.5	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	514565	0.75	562303	91.5	30 - 120	
45	Sc	1	2703383	2.18	2822427	95.8	30 - 120	
72	Ge	1	1643398	1.72	1718060	95.7	30 - 120	
115	In	1	4533793	2.47	4674536	97.0	30 - 120	
165	Ho	1	8513944	1.12	8873444	95.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\159PDS.D\159PDS.D#
Date Acquired: Nov 8 2011 03:25 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21992-a-6-b PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 3510
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	192.70	0.12	ppb	2.90	200	96.3	75 - 125	
51 V	72	1	194.10	2.55	ppb	1.61	200	95.8	75 - 125	
52 Cr	72	1	196.00	1.02	ppb	2.36	200	97.5	75 - 125	
55 Mn	72	1	217.80	23.15	ppb	1.10	200	97.6	75 - 125	
59 Co	72	1	192.70	0.52	ppb	1.04	200	96.1	75 - 125	
60 Ni	72	1	201.80	0.82	ppb	0.67	200	100.5	75 - 125	
63 Cu	72	1	193.90	2.71	ppb	1.49	200	95.7	75 - 125	
66 Zn	72	1	189.80	5.72	ppb	0.84	200	92.3	75 - 125	
75 As	72	1	191.60	0.33	ppb	0.69	200	95.6	75 - 125	
78 Se	72	1	181.70	0.18	ppb	0.85	200	90.8	75 - 125	
95 Mo	72	1	200.60	0.05	ppb	1.18	200	100.3	75 - 125	
107 Ag	115	1	50.87	0.01	ppb	1.41	50	101.7	75 - 125	
111 Cd	115	1	197.00	0.03	ppb	1.07	200	98.5	75 - 125	
118 Sn	115	1	197.40	0.11	ppb	1.42	200	98.6	75 - 125	
121 Sb	115	1	193.80	0.06	ppb	1.36	200	96.9	75 - 125	
137 Ba	115	1	212.70	6.49	ppb	2.88	200	103.0	75 - 125	
205 Tl	165	1	199.20	0.07	ppb	1.79	200	99.6	75 - 125	
208 Pb	165	1	200.10	0.97	ppb	1.51	200	99.6	75 - 125	
232 Th	165	1	0.45	0.43	ppb	2.30	200	0.2	75 - 125	
238 U	165	1	203.90	0.22	ppb	2.30	200	101.8	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	537123	1.80	562303	95.5	30 - 120	
45 Sc	1	2774446	0.92	2822427	98.3	30 - 120	
72 Ge	1	1670801	0.56	1718060	97.2	30 - 120	
115 In	1	4526855	1.91	4674536	96.8	30 - 120	
165 Ho	1	8748739	1.81	8873444	98.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\160SMPL.D\160SMPL.D#
Date Acquired: Nov 8 2011 03:28 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22016-b-8-b
Misc Info:
Vial Number: 3511
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.09	0.09	ppb	24.69	3600	
51	V	72	1	1.91	1.91	ppb	0.68	3600	
52	Cr	72	1	0.93	0.93	ppb	1.72	3600	
55	Mn	72	1	7.30	7.30	ppb	1.90	18000	
59	Co	72	1	0.36	0.36	ppb	1.81	3600	
60	Ni	72	1	0.51	0.51	ppb	6.66	3600	
63	Cu	72	1	1.54	1.54	ppb	1.93	3600	
66	Zn	72	1	5.22	5.22	ppb	2.15	3600	
75	As	72	1	0.16	0.16	ppb	3.34	3600	
78	Se	72	1	0.19	0.19	ppb	47.35	3600	
95	Mo	72	1	0.08	0.08	ppb	15.76	3600	
107	Ag	115	1	0.01	0.01	ppb	11.83	3600	
111	Cd	115	1	0.03	0.03	ppb	19.72	3600	
118	Sn	115	1	0.16	0.16	ppb	13.19	3600	
121	Sb	115	1	0.06	0.06	ppb	6.88	3600	
137	Ba	115	1	4.94	4.94	ppb	1.30	3600	
205	Tl	165	1	0.06	0.06	ppb	8.54	3600	
208	Pb	165	1	0.77	0.77	ppb	0.49	3600	
232	Th	165	1	0.37	0.37	ppb	2.36	1000	
238	U	165	1	0.14	0.14	ppb	1.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	524100	0.18	562303	93.2	30 - 120	
45	Sc	1	2742937	0.47	2822427	97.2	30 - 120	
72	Ge	1	1645330	1.79	1718060	95.8	30 - 120	
115	In	1	4552361	0.62	4674536	97.4	30 - 120	
165	Ho	1	8662058	0.70	8873444	97.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\161_CCV.D\161_CCV.D#
Date Acquired:	Nov 8 2011 03:31 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.72	ppb	4.44	50	101.4	90 - 110	
51	V	72	1	50.83	ppb	1.87	50	101.7	90 - 110	
52	Cr	72	1	51.39	ppb	0.90	50	102.8	90 - 110	
55	Mn	72	1	50.52	ppb	1.15	50	101.0	90 - 110	
59	Co	72	1	50.03	ppb	1.74	50	100.1	90 - 110	
60	Ni	72	1	49.51	ppb	0.64	50	99.0	90 - 110	
63	Cu	72	1	48.88	ppb	1.23	50	97.8	90 - 110	
66	Zn	72	1	49.96	ppb	0.70	50	99.9	90 - 110	
75	As	72	1	50.12	ppb	1.43	50	100.2	90 - 110	
78	Se	72	1	49.91	ppb	2.09	50	99.8	90 - 110	
95	Mo	72	1	49.81	ppb	0.20	50	99.6	90 - 110	
107	Ag	115	1	50.35	ppb	0.83	50	100.7	90 - 110	
111	Cd	115	1	49.61	ppb	0.90	50	99.2	90 - 110	
118	Sn	115	1	48.37	ppb	1.55	50	96.7	90 - 110	
121	Sb	115	1	48.69	ppb	1.49	50	97.4	90 - 110	
137	Ba	115	1	49.90	ppb	1.47	50	99.8	90 - 110	
205	Tl	165	1	51.69	ppb	0.43	50	103.4	90 - 110	
208	Pb	165	1	50.95	ppb	0.47	50	101.9	90 - 110	
232	Th	165	1	52.29	ppb	0.64	50	104.6	90 - 110	
238	U	165	1	52.29	ppb	1.34	50	104.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	518702	0.83	562303	92.2	30 - 120	
45	Sc	1	2699129	0.79	2822427	95.6	30 - 120	
72	Ge	1	1641669	1.02	1718060	95.6	30 - 120	
115	In	1	4526376	0.81	4674536	96.8	30 - 120	
165	Ho	1	8570357	0.69	8873444	96.6	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\162_CCB.D\162_CCB.D#
Date Acquired:	Nov 8 2011 03:34 am
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.025	ppb	85.59	1.00	
51	V	72	1	0.041	ppb	12.92	1.00	
52	Cr	72	1	-0.006	ppb	48.03	1.00	
55	Mn	72	1	0.030	ppb	27.30	1.00	
59	Co	72	1	0.009	ppb	18.06	1.00	
60	Ni	72	1	0.017	ppb	24.23	1.00	
63	Cu	72	1	0.029	ppb	16.01	1.00	
66	Zn	72	1	0.054	ppb	20.47	1.00	
75	As	72	1	0.012	ppb	30.92	1.00	
78	Se	72	1	0.046	ppb	263.59	1.00	
95	Mo	72	1	0.012	ppb	12.84	1.00	
107	Ag	115	1	0.011	ppb	4.27	1.00	
111	Cd	115	1	0.016	ppb	11.65	1.00	
118	Sn	115	1	0.042	ppb	22.57	1.00	
121	Sb	115	1	0.023	ppb	11.53	1.00	
137	Ba	115	1	0.020	ppb	7.07	1.00	
205	Tl	165	1	0.023	ppb	1.04	1.00	
208	Pb	165	1	0.014	ppb	5.54	1.00	
232	Th	165	1	0.035	ppb	10.24	1.00	
238	U	165	1	0.015	ppb	8.31	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	513685	1.01	562303	91.4	30 - 120	
45	Sc	1	2691837	0.97	2822427	95.4	30 - 120	
72	Ge	1	1640579	1.26	1718060	95.5	30 - 120	
115	In	1	4480570	0.43	4674536	95.9	30 - 120	
165	Ho	1	8486356	0.71	8873444	95.6	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\163WASH.D\163WASH.D#		
Date Acquired:	Nov 8 2011 03:37 am		
Operator:	LRD	**QC Summary:**	
Sample Name:	LLICV-1116520	**Analytes:**	**Pass**
Misc Info:		**ISTD:**	**Pass**
Vial Number:	1204		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal Update:	Nov 08 2011 12:29 am		
Sample Type:	WASH		
Total Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.292	ppb	3.84	1.30	
51	V	72	1	4.943	ppb	1.38	6.50	
52	Cr	72	1	2.183	ppb	3.03	2.60	
55	Mn	72	1	1.205	ppb	2.75	1.30	
59	Co	72	1	1.064	ppb	2.84	1.30	
60	Ni	72	1	2.228	ppb	5.63	2.60	
63	Cu	72	1	2.173	ppb	3.09	2.60	
66	Zn	72	1	10.420	ppb	0.32	13.00	
75	As	72	1	5.193	ppb	1.80	6.50	
78	Se	72	1	5.223	ppb	2.81	6.50	
95	Mo	72	1	2.108	ppb	2.76	2.60	
107	Ag	115	1	5.114	ppb	2.19	6.50	
111	Cd	115	1	1.082	ppb	2.00	1.30	
118	Sn	115	1	9.880	ppb	0.84	13.00	
121	Sb	115	1	2.031	ppb	0.97	2.60	
137	Ba	115	1	1.151	ppb	2.88	1.30	
205	Tl	165	1	1.132	ppb	1.74	1.30	
208	Pb	165	1	1.109	ppb	2.06	1.30	
232	Th	165	1	2.148	ppb	0.84	2.60	
238	U	165	1	1.114	ppb	0.85	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	517650	1.04	562303	92.1	30 - 120	
45	Sc	1	2712989	1.28	2822427	96.1	30 - 120	
72	Ge	1	1649331	2.28	1718060	96.0	30 - 120	
115	In	1	4500190	0.74	4674536	96.3	30 - 120	
165	Ho	1	8620802	1.84	8873444	97.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\164_BLK.D\164_BLK.D#
Date Acquired:	Nov 8 2011 03:40 am
Operator:	LRD
Sample Name:	mb 280-94167/1-a
Misc Info:	BLANK 94167 DOD4/ 6020
Vial Number:	3512
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	99.84	2.00	
51	V	72	1	0.023	ppb	54.15	2.00	
52	Cr	72	1	-0.006	ppb	291.51	2.00	
55	Mn	72	1	0.240	ppb	5.36	2.00	
59	Co	72	1	0.005	ppb	44.99	2.00	
60	Ni	72	1	0.022	ppb	17.99	2.00	
63	Cu	72	1	0.048	ppb	10.55	2.00	
66	Zn	72	1	1.902	ppb	1.73	2.00	
75	As	72	1	0.004	ppb	181.07	2.00	
78	Se	72	1	0.147	ppb	86.15	2.00	
95	Mo	72	1	0.003	ppb	293.34	2.00	
107	Ag	115	1	0.002	ppb	53.78	2.00	
111	Cd	115	1	0.007	ppb	6.57	2.00	
118	Sn	115	1	0.083	ppb	5.02	2.00	
121	Sb	115	1	0.013	ppb	16.52	2.00	
137	Ba	115	1	0.113	ppb	3.12	2.00	
205	Tl	165	1	0.007	ppb	22.06	2.00	
208	Pb	165	1	0.033	ppb	4.87	2.00	
232	Th	165	1	0.008	ppb	11.89	2.00	
238	U	165	1	0.005	ppb	24.09	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	519787	0.62	562303	92.4	30 - 120	
45	Sc	1	2707880	2.03	2822427	95.9	30 - 120	
72	Ge	1	1645028	1.69	1718060	95.7	30 - 120	
115	In	1	4517155	0.93	4674536	96.6	30 - 120	
165	Ho	1	8515449	0.38	8873444	96.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\165_LCS.D\165_LCS.D#
Date Acquired:	Nov 8 2011 03:43 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-94167/2-a
Misc Info:	LCS
Vial Number:	4101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	41.85	5.46	40	104.6	80 - 120	
51	V	72	1	40.17	3.14	40	100.4	80 - 120	
52	Cr	72	1	41.04	1.45	40	102.6	80 - 120	
55	Mn	72	1	40.18	1.15	40	100.5	80 - 120	
59	Co	72	1	41.32	1.89	40	103.3	80 - 120	
60	Ni	72	1	39.95	1.10	40	99.9	80 - 120	
63	Cu	72	1	41.71	0.30	40	104.3	80 - 120	
66	Zn	72	1	42.53	0.07	40	106.3	80 - 120	
75	As	72	1	41.17	1.10	40	102.9	80 - 120	
78	Se	72	1	40.10	2.25	40	100.3	80 - 120	
95	Mo	72	1	41.07	0.76	40	102.7	80 - 120	
107	Ag	115	1	41.04	2.12	40	102.6	80 - 120	
111	Cd	115	1	41.13	0.53	40	102.8	80 - 120	
118	Sn	115	1	40.53	1.08	40	101.3	80 - 120	
121	Sb	115	1	40.39	0.81	40	101.0	80 - 120	
137	Ba	115	1	41.48	1.66	40	103.7	80 - 120	
205	Tl	165	1	42.81	0.49	40	107.0	80 - 120	
208	Pb	165	1	41.99	0.17	40	105.0	80 - 120	
232	Th	165	1	43.21	0.55	40	108.0	80 - 120	
238	U	165	1	43.33	1.56	40	108.3	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	515718	0.85	562303	91.7	30 - 120	
45	Sc	1	2671872	0.99	2822427	94.7	30 - 120	
72	Ge	1	1643388	0.52	1718060	95.7	30 - 120	
115	In	1	4469922	0.77	4674536	95.6	30 - 120	
165	Ho	1	8516609	0.63	8873444	96.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\166AREF.D\166AREF.D#
Date Acquired:	Nov 8 2011 03:46 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21449-g-13-g
Misc Info:	
Vial Number:	4102
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	86.61	3600	
51	V	72	1	0.50	0.50	ppb	3.55	3600	
52	Cr	72	1	0.46	0.46	ppb	4.33	3600	
55	Mn	72	1	2,668.00	2668.00	ppb	1.22	18000	
59	Co	72	1	0.08	0.08	ppb	3.86	3600	
60	Ni	72	1	0.72	0.72	ppb	2.61	3600	
63	Cu	72	1	7.23	7.23	ppb	1.83	3600	
66	Zn	72	1	6.91	6.91	ppb	0.77	3600	
75	As	72	1	7.27	7.27	ppb	0.79	3600	
78	Se	72	1	0.08	0.08	ppb	157.33	3600	
95	Mo	72	1	0.32	0.32	ppb	1.95	3600	
107	Ag	115	1	0.01	0.01	ppb	18.07	3600	
111	Cd	115	1	0.01	0.01	ppb	75.00	3600	
118	Sn	115	1	0.13	0.13	ppb	7.77	3600	
121	Sb	115	1	0.08	0.08	ppb	5.10	3600	
137	Ba	115	1	833.60	833.60	ppb	3.05	3600	
205	Tl	165	1	0.03	0.03	ppb	18.63	3600	
208	Pb	165	1	0.07	0.07	ppb	0.82	3600	
232	Th	165	1	0.05	0.05	ppb	5.74	1000	
238	U	165	1	0.07	0.07	ppb	0.99	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	479086	0.51	562303	85.2	30 - 120	
45	Sc	1	2560070	0.16	2822427	90.7	30 - 120	
72	Ge	1	1531602	0.88	1718060	89.1	30 - 120	
115	In	1	4145999	1.78	4674536	88.7	30 - 120	
165	Ho	1	8066715	1.50	8873444	90.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\167SDIL.D\167SDIL.D#
Date Acquired: Nov 8 2011 03:48 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21449-g-13-g SD@5
Misc Info: SERIAL DILUTION
Vial Number: 4103
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110711.B\166AREF.D\166AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)			Flag
9	Be	6	1	0.00	ppb	173.22	0.00	245.7	90	-	110	
51	V	72	1	0.10	ppb	18.24	0.10	100.2	90	-	110	
52	Cr	72	1	0.09	ppb	16.83	0.09	93.9	90	-	110	
55	Mn	72	1	536.20	ppb	2.21	533.60	100.5	90	-	110	
59	Co	72	1	0.02	ppb	23.79	0.02	91.2	90	-	110	
60	Ni	72	1	0.15	ppb	10.54	0.14	105.8	90	-	110	
63	Cu	72	1	1.51	ppb	0.62	1.45	104.4	90	-	110	
66	Zn	72	1	1.42	ppb	2.55	1.38	102.7	90	-	110	
75	As	72	1	1.46	ppb	3.58	1.45	100.1	90	-	110	
78	Se	72	1	-0.18	ppb	73.50	0.02	-1225.3	90	-	110	
95	Mo	72	1	0.05	ppb	22.69	0.06	80.6	90	-	110	
107	Ag	115	1	0.00	ppb	175.46	0.00	94.6	90	-	110	
111	Cd	115	1	0.00	ppb	305.62	0.00	66.1	90	-	110	
118	Sn	115	1	0.04	ppb	10.03	0.03	145.5	90	-	110	
121	Sb	115	1	0.02	ppb	20.08	0.02	119.8	90	-	110	
137	Ba	115	1	165.60	ppb	1.07	166.72	99.3	90	-	110	
205	Tl	165	1	0.01	ppb	22.86	0.01	99.3	90	-	110	
208	Pb	165	1	0.01	ppb	13.31	0.01	88.9	90	-	110	
232	Th	165	1	0.01	ppb	36.29	0.01	81.9	90	-	110	
238	U	165	1	0.01	ppb	7.21	0.01	101.1	90	-	110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	491057	0.56	562303	87.3	30	-	120	
45	Sc	1	2612684	1.02	2822427	92.6	30	-	120	
72	Ge	1	1599493	1.98	1718060	93.1	30	-	120	
115	In	1	4324055	0.11	4674536	92.5	30	-	120	
165	Ho	1	8246375	1.30	8873444	92.9	30	-	120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\168PDS.D\168PDS.D#
Date Acquired:	Nov 8 2011 03:51 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21449-g-13-g PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	4104
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	208.90	0.01	ppb	1.72	200	104.4	75 - 125	
51 V	72	1	196.80	0.50	ppb	0.34	200	98.2	75 - 125	
52 Cr	72	1	196.40	0.46	ppb	1.51	200	98.0	75 - 125	
55 Mn	72	1	2820.00	2668.00	ppb	1.97	200	98.3	75 - 125	
59 Co	72	1	186.90	0.08	ppb	2.12	200	93.4	75 - 125	
60 Ni	72	1	191.70	0.72	ppb	1.16	200	95.5	75 - 125	
63 Cu	72	1	186.40	7.23	ppb	1.16	200	89.9	75 - 125	
66 Zn	72	1	195.20	6.91	ppb	1.07	200	94.3	75 - 125	
75 As	72	1	210.00	7.27	ppb	0.94	200	101.3	75 - 125	
78 Se	72	1	196.60	0.08	ppb	1.70	200	98.3	75 - 125	
95 Mo	72	1	206.90	0.32	ppb	2.14	200	103.3	75 - 125	
107 Ag	115	1	49.06	0.01	ppb	1.68	50	98.1	75 - 125	
111 Cd	115	1	202.30	0.01	ppb	0.36	200	101.1	75 - 125	
118 Sn	115	1	200.70	0.13	ppb	1.14	200	100.3	75 - 125	
121 Sb	115	1	201.10	0.08	ppb	0.86	200	100.5	75 - 125	
137 Ba	115	1	1019.00	833.60	ppb	1.35	200	98.6	75 - 125	
205 Tl	165	1	197.60	0.03	ppb	0.69	200	98.8	75 - 125	
208 Pb	165	1	194.40	0.07	ppb	1.61	200	97.2	75 - 125	
232 Th	165	1	0.07	0.05	ppb	5.15	200	0.0	75 - 125	
238 U	165	1	208.30	0.07	ppb	0.71	200	104.1	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	470871	0.97	562303	83.7	30 - 120	
45 Sc	1	2486609	0.33	2822427	88.1	30 - 120	
72 Ge	1	1520883	1.15	1718060	88.5	30 - 120	
115 In	1	4105664	0.69	4674536	87.8	30 - 120	
165 Ho	1	8047768	0.81	8873444	90.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\169_MS.D\169_MS.D#	
Date Acquired:	Nov 8 2011 03:54 am	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	LRD	**ISTD: Pass**
Sample Name:	280-21449-g-13-h ms	
Misc Info:	MATRIX SPIKE	
Vial Number:	4105	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 08 2011 12:29 am	
Sample Type:	MS	
Prep Dil. Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	
Spike Ref. File:	---	

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	43.14	0.01	ppb	0.78	40	107.8	50 - 150	
51 V	72	1	41.44	0.50	ppb	0.79	40	102.3	50 - 150	
52 Cr	72	1	41.39	0.46	ppb	1.77	40	102.3	50 - 150	
55 Mn	72	1	2791.00	2668.00	ppb	1.63	40	103.1	50 - 150	
59 Co	72	1	40.04	0.08	ppb	1.24	40	99.9	50 - 150	
60 Ni	72	1	39.00	0.72	ppb	1.50	40	95.8	50 - 150	
63 Cu	72	1	44.78	7.23	ppb	0.96	40	94.8	50 - 150	
66 Zn	72	1	45.83	6.91	ppb	0.22	40	97.7	50 - 150	
75 As	72	1	49.54	7.27	ppb	0.59	40	104.8	50 - 150	
78 Se	72	1	41.37	0.08	ppb	5.42	40	103.2	50 - 150	
95 Mo	72	1	42.18	0.32	ppb	0.16	40	104.6	50 - 150	
107 Ag	115	1	36.83	0.01	ppb	1.98	40	92.1	50 - 150	
111 Cd	115	1	40.90	0.01	ppb	0.30	40	102.2	50 - 150	
118 Sn	115	1	40.35	0.13	ppb	0.36	40	100.5	50 - 150	
121 Sb	115	1	40.63	0.08	ppb	0.89	40	101.4	50 - 150	
137 Ba	115	1	908.30	833.60	ppb	0.54	40	104.0	50 - 150	
205 Tl	165	1	41.81	0.03	ppb	0.80	40	104.5	50 - 150	
208 Pb	165	1	40.33	0.07	ppb	0.29	40	100.7	50 - 150	
232 Th	165	1	44.07	0.05	ppb	0.18	40	110.0	50 - 150	
238 U	165	1	44.09	0.07	ppb	1.21	40	110.0	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	463704	1.30	562303	82.5	30 - 120	
45 Sc	1	2476614	0.72	2822427	87.7	30 - 120	
72 Ge	1	1503138	0.50	1718060	87.5	30 - 120	
115 In	1	4087245	0.95	4674536	87.4	30 - 120	
165 Ho	1	7963820	1.23	8873444	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\170_MSD.D\170_MSD.D#		
Date Acquired:	Nov 8 2011 03:57 am	**QC Summary:**	
Acq. Method:	NormISIS.M	**Analytes:**	**Pass**
Operator:	LRD	**ISTD:**	**Pass**
Sample Name:	280-21449-g-13-i msd		
Misc Info:	MATRIX SPIKE DUPLICATE		
Vial Number:	4106		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 12:29 am		
Sample Type:	MSD		
Dilution Factor:	1.00		

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110711.B\169_MS.D\169_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	42.19	ppb	1.99	43.14	2.23	20	
51	V	72	1	40.03	ppb	2.11	41.44	3.46	20	
52	Cr	72	1	39.55	ppb	1.97	41.39	4.55	20	
55	Mn	72	1	2750.00	ppb	2.21	2791.00	1.48	20	
59	Co	72	1	39.25	ppb	0.66	40.04	1.99	20	
60	Ni	72	1	38.38	ppb	1.33	39.00	1.60	20	
63	Cu	72	1	43.82	ppb	0.89	44.78	2.17	20	
66	Zn	72	1	44.43	ppb	1.98	45.83	3.10	20	
75	As	72	1	48.10	ppb	1.83	49.54	2.95	20	
78	Se	72	1	40.04	ppb	3.18	41.37	3.27	20	
95	Mo	72	1	41.55	ppb	2.23	42.18	1.50	20	
107	Ag	115	1	38.16	ppb	1.81	36.83	3.55	20	
111	Cd	115	1	39.94	ppb	1.28	40.90	2.38	20	
118	Sn	115	1	39.85	ppb	1.54	40.35	1.25	20	
121	Sb	115	1	40.11	ppb	0.94	40.63	1.29	20	
137	Ba	115	1	892.10	ppb	1.03	908.30	1.80	20	
205	Tl	165	1	41.05	ppb	0.65	41.81	1.83	20	
208	Pb	165	1	39.49	ppb	0.87	40.33	2.10	20	
232	Th	165	1	42.73	ppb	0.40	44.07	3.09	20	
238	U	165	1	43.01	ppb	0.85	44.09	2.48	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	461249	0.64	562303	82.0	30 - 120	
45	Sc	1	2457547	0.10	2822427	87.1	30 - 120	
72	Ge	1	1501252	1.43	1718060	87.4	30 - 120	
115	In	1	4063789	0.51	4674536	86.9	30 - 120	
165	Ho	1	7986703	1.11	8873444	90.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\171SMPL.D\171SMPL.D#
Date Acquired: Nov 8 2011 04:00 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21524-f-14-a
Misc Info:
Vial Number: 4107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	86.64	3600	
51	V	72	1	0.69	0.69	ppb	1.80	3600	
52	Cr	72	1	0.60	0.60	ppb	3.47	3600	
55	Mn	72	1	6,809.00	6809.00	ppb	1.40	18000	
59	Co	72	1	0.12	0.12	ppb	1.77	3600	
60	Ni	72	1	1.98	1.98	ppb	0.70	3600	
63	Cu	72	1	0.29	0.29	ppb	3.07	3600	
66	Zn	72	1	3.56	3.56	ppb	0.88	3600	
75	As	72	1	12.25	12.25	ppb	0.88	3600	
78	Se	72	1	0.08	0.08	ppb	160.08	3600	
95	Mo	72	1	0.38	0.38	ppb	4.54	3600	
107	Ag	115	1	0.01	0.01	ppb	6.61	3600	
111	Cd	115	1	0.02	0.02	ppb	41.20	3600	
118	Sn	115	1	0.10	0.10	ppb	7.33	3600	
121	Sb	115	1	0.07	0.07	ppb	3.61	3600	
137	Ba	115	1	1,254.00	1254.00	ppb	2.09	3600	
205	Tl	165	1	0.03	0.03	ppb	15.01	3600	
208	Pb	165	1	0.07	0.07	ppb	5.15	3600	
232	Th	165	1	0.02	0.02	ppb	3.66	1000	
238	U	165	1	0.04	0.04	ppb	1.91	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	446108	1.09	562303	79.3	30 - 120	
45	Sc	1	2410916	0.38	2822427	85.4	30 - 120	
72	Ge	1	1455427	0.70	1718060	84.7	30 - 120	
115	In	1	3985823	1.17	4674536	85.3	30 - 120	
165	Ho	1	7734635	0.41	8873444	87.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\172SMPL.D\172SMPL.D#
Date Acquired:	Nov 8 2011 04:03 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21524-f-15-a
Misc Info:	
Vial Number:	4108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	48.93	3600	
51	V	72	1	0.62	0.62	ppb	1.38	3600	
52	Cr	72	1	0.51	0.51	ppb	7.31	3600	
55	Mn	72	1	3,200.00	3200.00	ppb	1.42	18000	
59	Co	72	1	0.12	0.12	ppb	7.13	3600	
60	Ni	72	1	1.92	1.92	ppb	3.12	3600	
63	Cu	72	1	0.67	0.67	ppb	1.23	3600	
66	Zn	72	1	4.37	4.37	ppb	2.03	3600	
75	As	72	1	0.25	0.25	ppb	1.16	3600	
78	Se	72	1	0.03	0.03	ppb	811.71	3600	
95	Mo	72	1	0.14	0.14	ppb	10.91	3600	
107	Ag	115	1	0.00	0.00	ppb	34.46	3600	
111	Cd	115	1	0.02	0.02	ppb	14.55	3600	
118	Sn	115	1	0.17	0.17	ppb	6.59	3600	
121	Sb	115	1	0.04	0.04	ppb	6.07	3600	
137	Ba	115	1	1,238.00	1238.00	ppb	0.84	3600	
205	Tl	165	1	0.02	0.02	ppb	7.72	3600	
208	Pb	165	1	0.17	0.17	ppb	1.68	3600	
232	Th	165	1	0.01	0.01	ppb	53.65	1000	
238	U	165	1	0.04	0.04	ppb	6.10	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	447693	1.09	562303	79.6	30 - 120	
45	Sc	1	2407199	1.66	2822427	85.3	30 - 120	
72	Ge	1	1471012	0.58	1718060	85.6	30 - 120	
115	In	1	3939162	1.38	4674536	84.3	30 - 120	
165	Ho	1	7722403	0.43	8873444	87.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\173_CCV.D\173_CCV.D#
Date Acquired:	Nov 8 2011 04:06 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.15	ppb	1.10	50	104.3	90 - 110	
51	V	72	1	49.46	ppb	1.87	50	98.9	90 - 110	
52	Cr	72	1	49.88	ppb	2.03	50	99.8	90 - 110	
55	Mn	72	1	50.39	ppb	2.36	50	100.8	90 - 110	
59	Co	72	1	50.22	ppb	1.48	50	100.4	90 - 110	
60	Ni	72	1	48.82	ppb	0.98	50	97.6	90 - 110	
63	Cu	72	1	48.51	ppb	0.67	50	97.0	90 - 110	
66	Zn	72	1	49.35	ppb	0.80	50	98.7	90 - 110	
75	As	72	1	50.09	ppb	0.51	50	100.2	90 - 110	
78	Se	72	1	48.90	ppb	3.80	50	97.8	90 - 110	
95	Mo	72	1	49.56	ppb	0.57	50	99.1	90 - 110	
107	Ag	115	1	50.73	ppb	1.73	50	101.5	90 - 110	
111	Cd	115	1	49.96	ppb	0.39	50	99.9	90 - 110	
118	Sn	115	1	48.72	ppb	0.79	50	97.4	90 - 110	
121	Sb	115	1	49.13	ppb	0.41	50	98.3	90 - 110	
137	Ba	115	1	50.63	ppb	0.17	50	101.3	90 - 110	
205	Tl	165	1	52.37	ppb	1.08	50	104.7	90 - 110	
208	Pb	165	1	51.17	ppb	1.50	50	102.3	90 - 110	
232	Th	165	1	52.70	ppb	2.19	50	105.4	90 - 110	
238	U	165	1	53.12	ppb	2.45	50	106.2	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	473594	0.21	562303	84.2	30 - 120	
45	Sc	1	2517113	0.11	2822427	89.2	30 - 120	
72	Ge	1	1577478	0.48	1718060	91.8	30 - 120	
115	In	1	4323220	0.62	4674536	92.5	30 - 120	
165	Ho	1	8266956	1.42	8873444	93.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\174_CCB.D\174_CCB.D#
Date Acquired: Nov 8 2011 04:09 am
Operator: LRD
Sample Name: CCB-1116509
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 12:29 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.009	ppb	86.62	1.00	
51	V	72	1	0.011	ppb	166.43	1.00	
52	Cr	72	1	-0.020	ppb	13.38	1.00	
55	Mn	72	1	0.245	ppb	5.10	1.00	
59	Co	72	1	0.009	ppb	41.98	1.00	
60	Ni	72	1	0.009	ppb	93.05	1.00	
63	Cu	72	1	0.022	ppb	40.36	1.00	
66	Zn	72	1	0.049	ppb	41.78	1.00	
75	As	72	1	0.006	ppb	112.42	1.00	
78	Se	72	1	0.124	ppb	99.19	1.00	
95	Mo	72	1	0.008	ppb	72.09	1.00	
107	Ag	115	1	0.009	ppb	13.13	1.00	
111	Cd	115	1	0.008	ppb	60.37	1.00	
118	Sn	115	1	0.027	ppb	40.94	1.00	
121	Sb	115	1	0.022	ppb	12.83	1.00	
137	Ba	115	1	0.074	ppb	11.91	1.00	
205	Tl	165	1	0.020	ppb	16.38	1.00	
208	Pb	165	1	0.010	ppb	14.31	1.00	
232	Th	165	1	0.024	ppb	2.48	1.00	
238	U	165	1	0.013	ppb	4.31	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	475415	1.36	562303	84.5	30 - 120	
45	Sc	1	2572100	2.93	2822427	91.1	30 - 120	
72	Ge	1	1584757	0.78	1718060	92.2	30 - 120	
115	In	1	4396177	0.65	4674536	94.0	30 - 120	
165	Ho	1	8229410	1.45	8873444	92.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\175SMPL.D\175SMPL.D#
Date Acquired:	Nov 8 2011 04:12 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21524-f-17-a
Misc Info:	
Vial Number:	4109
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	69.21	3600	
51	V	72	1	0.69	0.69	ppb	8.82	3600	
52	Cr	72	1	0.63	0.63	ppb	4.54	3600	
55	Mn	72	1	3,187.00	3187.00	ppb	1.49	18000	
59	Co	72	1	0.11	0.11	ppb	0.19	3600	
60	Ni	72	1	0.88	0.88	ppb	4.19	3600	
63	Cu	72	1	0.16	0.16	ppb	8.96	3600	
66	Zn	72	1	7.24	7.24	ppb	1.92	3600	
75	As	72	1	2.02	2.02	ppb	1.11	3600	
78	Se	72	1	0.15	0.15	ppb	32.97	3600	
95	Mo	72	1	0.22	0.22	ppb	10.82	3600	
107	Ag	115	1	0.00	0.00	ppb	87.50	3600	
111	Cd	115	1	0.01	0.01	ppb	95.63	3600	
118	Sn	115	1	0.06	0.06	ppb	37.89	3600	
121	Sb	115	1	0.06	0.06	ppb	6.52	3600	
137	Ba	115	1	975.90	975.90	ppb	1.42	3600	
205	Tl	165	1	0.02	0.02	ppb	19.85	3600	
208	Pb	165	1	0.03	0.03	ppb	7.72	3600	
232	Th	165	1	0.01	0.01	ppb	23.65	1000	
238	U	165	1	0.07	0.07	ppb	2.14	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	449767	0.98	562303	80.0	30 - 120	
45	Sc	1	2424856	1.47	2822427	85.9	30 - 120	
72	Ge	1	1477593	1.44	1718060	86.0	30 - 120	
115	In	1	4000218	0.34	4674536	85.6	30 - 120	
165	Ho	1	7889373	0.67	8873444	88.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\176SMPL.D\176SMPL.D#
Date Acquired:	Nov 8 2011 04:15 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21524-f-18-a
Misc Info:	
Vial Number:	4110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	173.22	3600	
51	V	72	1	0.68	0.68	ppb	1.49	3600	
52	Cr	72	1	0.48	0.48	ppb	2.72	3600	
55	Mn	72	1	2,399.00	2399.00	ppb	0.69	18000	
59	Co	72	1	0.22	0.22	ppb	3.46	3600	
60	Ni	72	1	2.47	2.47	ppb	1.41	3600	
63	Cu	72	1	9.18	9.18	ppb	1.00	3600	
66	Zn	72	1	11.37	11.37	ppb	1.00	3600	
75	As	72	1	2.30	2.30	ppb	0.80	3600	
78	Se	72	1	-0.13	-0.13	ppb	97.32	3600	
95	Mo	72	1	0.43	0.43	ppb	8.93	3600	
107	Ag	115	1	0.00	0.00	ppb	198.48	3600	
111	Cd	115	1	0.02	0.02	ppb	38.64	3600	
118	Sn	115	1	0.08	0.08	ppb	9.23	3600	
121	Sb	115	1	0.09	0.09	ppb	9.60	3600	
137	Ba	115	1	898.40	898.40	ppb	1.62	3600	
205	Tl	165	1	0.01	0.01	ppb	0.80	3600	
208	Pb	165	1	0.05	0.05	ppb	1.65	3600	
232	Th	165	1	0.00	0.00	ppb	25.13	1000	
238	U	165	1	0.51	0.51	ppb	1.60	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	452760	1.00	562303	80.5	30 - 120	
45	Sc	1	2450316	0.93	2822427	86.8	30 - 120	
72	Ge	1	1473089	0.76	1718060	85.7	30 - 120	
115	In	1	4046478	1.50	4674536	86.6	30 - 120	
165	Ho	1	7841833	1.35	8873444	88.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\177SMPL.D\177SMPL.D#
Date Acquired:	Nov 8 2011 04:17 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21878-e-19-d
Misc Info:	
Vial Number:	4111
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	43.08	3600	
51	V	72	1	0.22	0.22	ppb	17.13	3600	
52	Cr	72	1	0.17	0.17	ppb	6.60	3600	
55	Mn	72	1	131.50	131.50	ppb	1.85	18000	
59	Co	72	1	2.80	2.80	ppb	2.34	3600	
60	Ni	72	1	6.91	6.91	ppb	3.08	3600	
63	Cu	72	1	1.64	1.64	ppb	2.82	3600	
66	Zn	72	1	44.02	44.02	ppb	1.60	3600	
75	As	72	1	0.32	0.32	ppb	2.01	3600	
78	Se	72	1	16.14	16.14	ppb	3.15	3600	
95	Mo	72	1	0.84	0.84	ppb	4.37	3600	
107	Ag	115	1	0.00	0.00	ppb	132.78	3600	
111	Cd	115	1	0.13	0.13	ppb	7.39	3600	
118	Sn	115	1	0.06	0.06	ppb	18.07	3600	
121	Sb	115	1	0.22	0.22	ppb	1.70	3600	
137	Ba	115	1	168.70	168.70	ppb	1.24	3600	
205	Tl	165	1	0.02	0.02	ppb	13.07	3600	
208	Pb	165	1	0.12	0.12	ppb	2.81	3600	
232	Th	165	1	0.00	0.00	ppb	186.88	1000	
238	U	165	1	4.37	4.37	ppb	1.06	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	459644	0.27	562303	81.7	30 - 120	
45	Sc	1	2435091	1.30	2822427	86.3	30 - 120	
72	Ge	1	1437317	2.16	1718060	83.7	30 - 120	
115	In	1	3956602	0.77	4674536	84.6	30 - 120	
165	Ho	1	7759016	1.02	8873444	87.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\178SMPL.D\178SMPL.D#
Date Acquired: Nov 8 2011 04:20 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21953-g-18-b
Misc Info:
Vial Number: 4112
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	0.00	3600	
51	V	72	1	0.05	0.05	ppb	36.36	3600	
52	Cr	72	1	0.08	0.08	ppb	2.88	3600	
55	Mn	72	1	1.48	1.48	ppb	3.15	18000	
59	Co	72	1	0.02	0.02	ppb	17.17	3600	
60	Ni	72	1	0.89	0.89	ppb	3.94	3600	
63	Cu	72	1	1.14	1.14	ppb	1.71	3600	
66	Zn	72	1	3.48	3.48	ppb	0.70	3600	
75	As	72	1	0.05	0.05	ppb	8.98	3600	
78	Se	72	1	-0.15	-0.15	ppb	118.51	3600	
95	Mo	72	1	0.14	0.14	ppb	6.11	3600	
107	Ag	115	1	0.00	0.00	ppb	56.11	3600	
111	Cd	115	1	0.01	0.01	ppb	32.78	3600	
118	Sn	115	1	0.02	0.02	ppb	17.29	3600	
121	Sb	115	1	0.01	0.01	ppb	9.38	3600	
137	Ba	115	1	0.48	0.48	ppb	7.63	3600	
205	Tl	165	1	0.00	0.00	ppb	127.46	3600	
208	Pb	165	1	0.05	0.05	ppb	1.67	3600	
232	Th	165	1	0.00	0.00	ppb	33.65	1000	
238	U	165	1	0.00	0.00	ppb	9.52	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	486723	0.65	562303	86.6	30 - 120	
45	Sc	1	2488712	1.10	2822427	88.2	30 - 120	
72	Ge	1	1537396	0.38	1718060	89.5	30 - 120	
115	In	1	4224973	0.91	4674536	90.4	30 - 120	
165	Ho	1	8058188	0.77	8873444	90.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\179SMPL.D\179SMPL.D#
Date Acquired: Nov 8 2011 04:23 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21988-c-21-a
Misc Info:
Vial Number: 4201
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	99.56	3600	
51	V	72	1	0.06	0.06	ppb	13.16	3600	
52	Cr	72	1	0.00	0.00	ppb	622.87	3600	
55	Mn	72	1	2.60	2.60	ppb	2.80	18000	
59	Co	72	1	0.02	0.02	ppb	25.24	3600	
60	Ni	72	1	0.87	0.87	ppb	1.39	3600	
63	Cu	72	1	0.72	0.72	ppb	3.18	3600	
66	Zn	72	1	4.20	4.20	ppb	3.55	3600	
75	As	72	1	0.02	0.02	ppb	72.13	3600	
78	Se	72	1	0.12	0.12	ppb	33.73	3600	
95	Mo	72	1	0.18	0.18	ppb	1.33	3600	
107	Ag	115	1	0.00	0.00	ppb	342.16	3600	
111	Cd	115	1	0.00	0.00	ppb	73.49	3600	
118	Sn	115	1	0.11	0.11	ppb	7.15	3600	
121	Sb	115	1	0.01	0.01	ppb	2.84	3600	
137	Ba	115	1	0.70	0.70	ppb	1.38	3600	
205	Tl	165	1	0.00	0.00	ppb	88.74	3600	
208	Pb	165	1	0.06	0.06	ppb	2.73	3600	
232	Th	165	1	0.00	0.00	ppb	66.96	1000	
238	U	165	1	0.00	0.00	ppb	38.31	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	475166	0.81	562303	84.5	30 - 120	
45	Sc	1	2500487	1.06	2822427	88.6	30 - 120	
72	Ge	1	1526300	1.46	1718060	88.8	30 - 120	
115	In	1	4157606	0.49	4674536	88.9	30 - 120	
165	Ho	1	7962548	0.36	8873444	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\180SMPL.D\180SMPL.D#
Date Acquired:	Nov 8 2011 04:26 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21988-c-22-a
Misc Info:	
Vial Number:	4202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	0.35	3600	
51	V	72	1	0.28	0.28	ppb	5.85	3600	
52	Cr	72	1	0.66	0.66	ppb	6.18	3600	
55	Mn	72	1	369.30	369.30	ppb	0.77	18000	
59	Co	72	1	5.24	5.24	ppb	1.27	3600	
60	Ni	72	1	10.10	10.10	ppb	1.18	3600	
63	Cu	72	1	1.71	1.71	ppb	1.46	3600	
66	Zn	72	1	8.72	8.72	ppb	0.56	3600	
75	As	72	1	0.26	0.26	ppb	2.92	3600	
78	Se	72	1	0.40	0.40	ppb	87.21	3600	
95	Mo	72	1	1.42	1.42	ppb	1.59	3600	
107	Ag	115	1	0.00	0.00	ppb	970.13	3600	
111	Cd	115	1	0.10	0.10	ppb	19.27	3600	
118	Sn	115	1	0.03	0.03	ppb	6.56	3600	
121	Sb	115	1	0.24	0.24	ppb	4.69	3600	
137	Ba	115	1	169.30	169.30	ppb	1.29	3600	
205	Tl	165	1	0.03	0.03	ppb	9.96	3600	
208	Pb	165	1	0.08	0.08	ppb	3.92	3600	
232	Th	165	1	0.00	0.00	ppb	171.81	1000	
238	U	165	1	3.89	3.89	ppb	0.96	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	449913	0.34	562303	80.0	30 - 120	
45	Sc	1	2425804	1.50	2822427	85.9	30 - 120	
72	Ge	1	1424175	1.75	1718060	82.9	30 - 120	
115	In	1	3920615	0.66	4674536	83.9	30 - 120	
165	Ho	1	7678615	2.00	8873444	86.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\181SMPL.D\181SMPL.D#
Date Acquired: Nov 8 2011 04:29 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21988-c-23-a
Misc Info:
Vial Number: 4203
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 12:29 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	114.79	3600	
51	V	72	1	0.33	0.33	ppb	8.70	3600	
52	Cr	72	1	0.84	0.84	ppb	0.64	3600	
55	Mn	72	1	1,854.00	1854.00	ppb	1.21	18000	
59	Co	72	1	1.64	1.64	ppb	0.52	3600	
60	Ni	72	1	7.32	7.32	ppb	2.56	3600	
63	Cu	72	1	0.70	0.70	ppb	3.91	3600	
66	Zn	72	1	16.86	16.86	ppb	0.54	3600	
75	As	72	1	11.07	11.07	ppb	1.97	3600	
78	Se	72	1	0.17	0.17	ppb	46.39	3600	
95	Mo	72	1	2.19	2.19	ppb	3.01	3600	
107	Ag	115	1	0.00	0.00	ppb	124.36	3600	
111	Cd	115	1	0.01	0.01	ppb	76.39	3600	
118	Sn	115	1	0.08	0.08	ppb	7.23	3600	
121	Sb	115	1	0.03	0.03	ppb	4.90	3600	
137	Ba	115	1	516.50	516.50	ppb	1.45	3600	
205	Tl	165	1	0.00	0.00	ppb	6.72	3600	
208	Pb	165	1	0.17	0.17	ppb	0.64	3600	
232	Th	165	1	0.01	0.01	ppb	35.31	1000	
238	U	165	1	0.61	0.61	ppb	1.63	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	431179	0.87	562303	76.7	30 - 120	
45	Sc	1	2387957	1.45	2822427	84.6	30 - 120	
72	Ge	1	1448876	1.06	1718060	84.3	30 - 120	
115	In	1	3959726	0.65	4674536	84.7	30 - 120	
165	Ho	1	7693575	1.06	8873444	86.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\182_CCV.D\182_CCV.D#
Date Acquired:	Nov 8 2011 04:32 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.63	ppb	0.59	50	103.3	90 - 110	
51	V	72	1	49.47	ppb	2.23	50	98.9	90 - 110	
52	Cr	72	1	49.63	ppb	1.59	50	99.3	90 - 110	
55	Mn	72	1	49.40	ppb	1.40	50	98.8	90 - 110	
59	Co	72	1	49.60	ppb	2.33	50	99.2	90 - 110	
60	Ni	72	1	48.62	ppb	1.59	50	97.2	90 - 110	
63	Cu	72	1	48.35	ppb	0.79	50	96.7	90 - 110	
66	Zn	72	1	49.50	ppb	0.80	50	99.0	90 - 110	
75	As	72	1	50.05	ppb	1.55	50	100.1	90 - 110	
78	Se	72	1	48.16	ppb	1.52	50	96.3	90 - 110	
95	Mo	72	1	49.56	ppb	2.12	50	99.1	90 - 110	
107	Ag	115	1	49.88	ppb	2.01	50	99.8	90 - 110	
111	Cd	115	1	49.59	ppb	0.82	50	99.2	90 - 110	
118	Sn	115	1	48.42	ppb	0.19	50	96.8	90 - 110	
121	Sb	115	1	48.82	ppb	0.99	50	97.6	90 - 110	
137	Ba	115	1	50.42	ppb	1.39	50	100.8	90 - 110	
205	Tl	165	1	52.37	ppb	2.08	50	104.7	90 - 110	
208	Pb	165	1	51.68	ppb	0.96	50	103.4	90 - 110	
232	Th	165	1	53.26	ppb	0.28	50	106.5	90 - 110	
238	U	165	1	53.32	ppb	0.78	50	106.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	458696	1.06	562303	81.6	30 - 120	
45	Sc	1	2537810	1.11	2822427	89.9	30 - 120	
72	Ge	1	1575115	1.87	1718060	91.7	30 - 120	
115	In	1	4332700	0.51	4674536	92.7	30 - 120	
165	Ho	1	8102178	0.85	8873444	91.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\183_CCB.D\183_CCB.D#
Date Acquired:	Nov 8 2011 04:35 am
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.019	ppb	43.40	1.00	
51	V	72	1	0.016	ppb	72.11	1.00	
52	Cr	72	1	-0.017	ppb	32.16	1.00	
55	Mn	72	1	0.139	ppb	19.94	1.00	
59	Co	72	1	0.006	ppb	14.91	1.00	
60	Ni	72	1	0.006	ppb	115.90	1.00	
63	Cu	72	1	0.017	ppb	30.63	1.00	
66	Zn	72	1	0.037	ppb	17.54	1.00	
75	As	72	1	0.008	ppb	55.87	1.00	
78	Se	72	1	0.047	ppb	562.87	1.00	
95	Mo	72	1	0.006	ppb	45.85	1.00	
107	Ag	115	1	0.009	ppb	27.09	1.00	
111	Cd	115	1	0.006	ppb	37.19	1.00	
118	Sn	115	1	0.030	ppb	48.07	1.00	
121	Sb	115	1	0.015	ppb	11.44	1.00	
137	Ba	115	1	0.045	ppb	5.11	1.00	
205	Tl	165	1	0.019	ppb	15.02	1.00	
208	Pb	165	1	0.010	ppb	12.80	1.00	
232	Th	165	1	0.024	ppb	10.28	1.00	
238	U	165	1	0.012	ppb	7.74	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	460384	0.09	562303	81.9	30 - 120	
45	Sc	1	2537433	0.88	2822427	89.9	30 - 120	
72	Ge	1	1567746	1.14	1718060	91.3	30 - 120	
115	In	1	4368556	1.27	4674536	93.5	30 - 120	
165	Ho	1	8131887	1.60	8873444	91.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\184WASH.D\184WASH.D#
Date Acquired:	Nov 8 2011 04:38 am
Operator:	LRD
Sample Name:	RINSE
Misc Info:	
Vial Number:	1301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.016 ppb	100.00	1.30	
51 V	72	1	0.205 ppb	17.68	6.50	
52 Cr	72	1	1.214 ppb	3.01	2.60	
55 Mn	72	1	0.759 ppb	2.14	1.30	
59 Co	72	1	0.083 ppb	9.43	1.30	
60 Ni	72	1	13.040 ppb	1.13	2.60	
63 Cu	72	1	0.462 ppb	4.88	2.60	
66 Zn	72	1	5.536 ppb	2.52	13.00	
75 As	72	1	0.626 ppb	3.88	6.50	
78 Se	72	1	0.354 ppb	35.92	6.50	
95 Mo	72	1	2221.000 ppb	1.13	2.60	
107 Ag	115	1	0.070 ppb	1.25	6.50	
111 Cd	115	1	0.628 ppb	8.04	1.30	
118 Sn	115	1	0.284 ppb	3.53	13.00	
121 Sb	115	1	0.311 ppb	1.37	2.60	
137 Ba	115	1	0.289 ppb	2.30	1.30	
205 Tl	165	1	0.074 ppb	18.98	1.30	
208 Pb	165	1	0.179 ppb	3.93	1.30	
232 Th	165	1	0.029 ppb	14.06	2.60	
238 U	165	1	0.028 ppb	3.17	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	409118	1.04	562303	72.8	30 - 120	
45 Sc	1	2177883	0.52	2822427	77.2	30 - 120	
72 Ge	1	1315566	0.66	1718060	76.6	30 - 120	
115 In	1	3578389	1.74	4674536	76.6	30 - 120	
165 Ho	1	7094911	0.44	8873444	80.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\185WASH.D\185WASH.D#
Date Acquired: Nov 8 2011 04:41 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 12:29 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	0.00	1.30	
51	V	72	1	0.011	ppb	154.84	6.50	
52	Cr	72	1	-0.001	ppb	2860.70	2.60	
55	Mn	72	1	0.127	ppb	13.76	1.30	
59	Co	72	1	-0.001	ppb	224.24	1.30	
60	Ni	72	1	-0.003	ppb	217.28	2.60	
63	Cu	72	1	0.000	ppb	2305.40	2.60	
66	Zn	72	1	-0.045	ppb	11.45	13.00	
75	As	72	1	0.000	ppb	2388.50	6.50	
78	Se	72	1	0.221	ppb	185.43	6.50	
95	Mo	72	1	0.361	ppb	9.94	2.60	
107	Ag	115	1	0.001	ppb	165.65	6.50	
111	Cd	115	1	0.003	ppb	71.12	1.30	
118	Sn	115	1	-0.018	ppb	3.41	13.00	
121	Sb	115	1	0.003	ppb	49.78	2.60	
137	Ba	115	1	0.029	ppb	17.18	1.30	
205	Tl	165	1	0.011	ppb	8.80	1.30	
208	Pb	165	1	0.003	ppb	51.97	1.30	
232	Th	165	1	-0.001	ppb	21.11	2.60	
238	U	165	1	0.001	ppb	44.74	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	451737	0.49	562303	80.3	30 - 120	
45	Sc	1	2522931	0.40	2822427	89.4	30 - 120	
72	Ge	1	1575605	0.75	1718060	91.7	30 - 120	
115	In	1	4330499	0.83	4674536	92.6	30 - 120	
165	Ho	1	8277115	0.59	8873444	93.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\186WASH.D\186WASH.D#
Date Acquired: Nov 8 2011 04:44 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 12:29 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	0.00	1.30	
51	V	72	1	0.024	ppb	69.38	6.50	
52	Cr	72	1	-0.013	ppb	138.44	2.60	
55	Mn	72	1	0.087	ppb	5.29	1.30	
59	Co	72	1	-0.001	ppb	46.50	1.30	
60	Ni	72	1	-0.004	ppb	151.72	2.60	
63	Cu	72	1	-0.006	ppb	158.51	2.60	
66	Zn	72	1	-0.035	ppb	12.50	13.00	
75	As	72	1	-0.002	ppb	341.08	6.50	
78	Se	72	1	0.242	ppb	98.51	6.50	
95	Mo	72	1	0.086	ppb	16.08	2.60	
107	Ag	115	1	0.000	ppb	420.54	6.50	
111	Cd	115	1	0.006	ppb	40.78	1.30	
118	Sn	115	1	-0.008	ppb	25.61	13.00	
121	Sb	115	1	0.001	ppb	168.54	2.60	
137	Ba	115	1	0.022	ppb	7.20	1.30	
205	Tl	165	1	0.005	ppb	29.64	1.30	
208	Pb	165	1	0.000	ppb	259.49	1.30	
232	Th	165	1	-0.003	ppb	24.63	2.60	
238	U	165	1	0.000	ppb	415.65	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	462173	0.94	562303	82.2	30 - 120	
45	Sc	1	2555313	0.71	2822427	90.5	30 - 120	
72	Ge	1	1587143	1.42	1718060	92.4	30 - 120	
115	In	1	4365600	1.12	4674536	93.4	30 - 120	
165	Ho	1	8308815	0.54	8873444	93.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\187WASH.D\187WASH.D#
Date Acquired:	Nov 8 2011 04:47 am
Operator:	LRD
Sample Name:	RINSE
Misc Info:	
Vial Number:	3
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 12:29 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.014 ppb	1.09	1.30	
51	V	72	1	0.013 ppb	129.42	6.50	
52	Cr	72	1	-0.014 ppb	99.71	2.60	
55	Mn	72	1	0.076 ppb	2.87	1.30	
59	Co	72	1	0.000 ppb	846.38	1.30	
60	Ni	72	1	-0.008 ppb	30.75	2.60	
63	Cu	72	1	-0.012 ppb	48.82	2.60	
66	Zn	72	1	-0.046 ppb	11.99	13.00	
75	As	72	1	-0.004 ppb	144.13	6.50	
78	Se	72	1	-0.093 ppb	260.39	6.50	
95	Mo	72	1	0.044 ppb	10.99	2.60	
107	Ag	115	1	-0.001 ppb	72.37	6.50	
111	Cd	115	1	0.001 ppb	87.07	1.30	
118	Sn	115	1	-0.007 ppb	16.23	13.00	
121	Sb	115	1	0.000 ppb	1230.60	2.60	
137	Ba	115	1	0.028 ppb	9.17	1.30	
205	Tl	165	1	0.001 ppb	37.14	1.30	
208	Pb	165	1	-0.001 ppb	66.39	1.30	
232	Th	165	1	-0.003 ppb	58.22	2.60	
238	U	165	1	0.000 ppb	48.72	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	471400	1.09	562303	83.8	30 - 120	
45	Sc	1	2575939	0.40	2822427	91.3	30 - 120	
72	Ge	1	1613909	1.90	1718060	93.9	30 - 120	
115	In	1	4384501	1.04	4674536	93.8	30 - 120	
165	Ho	1	8237901	0.52	8873444	92.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\097CALB.D\097CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\188CALB.D\188CALB.D#
Date Acquired:	Nov 8 2011 04:50 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	Cal Blank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 12:29 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	3	173.21
51	V	72	1	589	39.18
52	Cr	72	1	7402	6.20
55	Mn	72	1	3417	2.86
59	Co	72	1	363	15.22
60	Ni	72	1	307	9.39
63	Cu	72	1	1110	6.80
66	Zn	72	1	417	4.66
75	As	72	1	113	0.86
78	Se	72	1	407	8.13
95	Mo	72	1	497	10.88
107	Ag	115	1	153	16.46
111	Cd	115	1	54	20.07
118	Sn	115	1	547	8.13
121	Sb	115	1	100	12.52
137	Ba	115	1	234	15.51
205	Tl	165	1	408	4.87
208	Pb	165	1	878	13.80
232	Th	165	1	477	3.82
238	U	165	1	430	3.46

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	473732	0.64
45	Sc	1	2585208	0.95
72	Ge	1	1582668	0.60
115	In	1	4390769	0.58
165	Ho	1	8307792	0.88

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#
Date Acquired:	Nov 8 2011 04:53 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1116509
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:50 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	10	100.55
51	V	72	1	560	45.35
52	Cr	72	1	7345	4.12
55	Mn	72	1	2934	8.72
59	Co	72	1	183	22.09
60	Ni	72	1	287	15.42
63	Cu	72	1	963	10.21
66	Zn	72	1	429	9.71
75	As	72	1	116	6.04
78	Se	72	1	407	12.00
95	Mo	72	1	233	18.38
107	Ag	115	1	87	17.16
111	Cd	115	1	21	50.31
118	Sn	115	1	363	22.65
121	Sb	115	1	52	12.90
137	Ba	115	1	150	17.13
205	Tl	165	1	209	9.94
208	Pb	165	1	658	5.92
232	Th	165	1	247	40.06
238	U	165	1	150	22.05

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	482681	1.09
45	Sc	1	2578039	0.09
72	Ge	1	1602132	0.63
115	In	1	4429803	0.66
165	Ho	1	8281520	0.59

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\190ICAL.D\190ICAL.D#
Date Acquired:	Nov 8 2011 04:55 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1116510
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:53 am
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	74930	2.13
51	V	72	1	2235280	0.97
52	Cr	72	1	2347293	1.35
55	Mn	72	1	2069411	1.63
59	Co	72	1	3175919	0.60
60	Ni	72	1	762690	1.04
63	Cu	72	1	1923885	0.90
66	Zn	72	1	350032	1.01
75	As	72	1	257571	0.79
78	Se	72	1	36216	0.86
95	Mo	72	1	903743	0.77
107	Ag	115	1	2722460	1.13
111	Cd	115	1	462789	1.23
118	Sn	115	1	1216928	1.21
121	Sb	115	1	1406068	0.57
137	Ba	115	1	555870	0.78
205	Tl	165	1	4576965	0.28
208	Pb	165	1	6329041	0.87
232	Th	165	1	6086657	1.06
238	U	165	1	6403463	1.45

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	471343	0.86	482681	97.7	30 - 120	
45	Sc	1	2554173	1.38	2578039	99.1	30 - 120	
72	Ge	1	1589213	0.35	1602132	99.2	30 - 120	
115	In	1	4332209	1.15	4429803	97.8	30 - 120	
165	Ho	1	8198037	1.20	8281520	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\191_CCV.D\191_CCV.D#
Date Acquired:	Nov 8 2011 04:58 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.87	ppb	2.53	50	101.7	90 - 110	
51	V	72	1	50.90	ppb	1.26	50	101.8	90 - 110	
52	Cr	72	1	51.12	ppb	0.98	50	102.2	90 - 110	
55	Mn	72	1	50.82	ppb	1.95	50	101.6	90 - 110	
59	Co	72	1	52.01	ppb	2.07	50	104.0	90 - 110	
60	Ni	72	1	50.82	ppb	1.22	50	101.6	90 - 110	
63	Cu	72	1	49.61	ppb	1.35	50	99.2	90 - 110	
66	Zn	72	1	50.88	ppb	0.54	50	101.8	90 - 110	
75	As	72	1	50.89	ppb	0.72	50	101.8	90 - 110	
78	Se	72	1	52.10	ppb	2.72	50	104.2	90 - 110	
95	Mo	72	1	50.94	ppb	0.17	50	101.9	90 - 110	
107	Ag	115	1	50.86	ppb	1.48	50	101.7	90 - 110	
111	Cd	115	1	49.76	ppb	1.55	50	99.5	90 - 110	
118	Sn	115	1	48.21	ppb	1.54	50	96.4	90 - 110	
121	Sb	115	1	48.43	ppb	0.87	50	96.9	90 - 110	
137	Ba	115	1	49.51	ppb	1.08	50	99.0	90 - 110	
205	Tl	165	1	51.73	ppb	0.59	50	103.5	90 - 110	
208	Pb	165	1	50.92	ppb	0.41	50	101.8	90 - 110	
232	Th	165	1	52.27	ppb	0.80	50	104.5	90 - 110	
238	U	165	1	52.56	ppb	0.16	50	105.1	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	470451	1.41	482681	97.5	30 - 120	
45	Sc	1	2531033	0.33	2578039	98.2	30 - 120	
72	Ge	1	1568022	0.31	1602132	97.9	30 - 120	
115	In	1	4371355	1.12	4429803	98.7	30 - 120	
165	Ho	1	8171249	0.90	8281520	98.7	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\192_CCB.D\192_CCB.D#
Date Acquired:	Nov 8 2011 05:01 am
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	44.47	1.00	
51	V	72	1	0.002	ppb	1070.30	1.00	
52	Cr	72	1	-0.005	ppb	326.35	1.00	
55	Mn	72	1	0.027	ppb	30.96	1.00	
59	Co	72	1	0.013	ppb	9.63	1.00	
60	Ni	72	1	0.013	ppb	53.52	1.00	
63	Cu	72	1	0.023	ppb	24.83	1.00	
66	Zn	72	1	0.051	ppb	20.26	1.00	
75	As	72	1	0.011	ppb	23.02	1.00	
78	Se	72	1	0.275	ppb	60.74	1.00	
95	Mo	72	1	0.017	ppb	53.07	1.00	
107	Ag	115	1	0.012	ppb	11.41	1.00	
111	Cd	115	1	0.014	ppb	18.84	1.00	
118	Sn	115	1	0.051	ppb	11.99	1.00	
121	Sb	115	1	0.022	ppb	1.77	1.00	
137	Ba	115	1	0.016	ppb	31.23	1.00	
205	Tl	165	1	0.028	ppb	11.81	1.00	
208	Pb	165	1	0.014	ppb	5.52	1.00	
232	Th	165	1	0.047	ppb	10.65	1.00	
238	U	165	1	0.016	ppb	2.91	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	470241	1.21	482681	97.4	30 - 120	
45	Sc	1	2540203	1.34	2578039	98.5	30 - 120	
72	Ge	1	1583225	0.96	1602132	98.8	30 - 120	
115	In	1	4319271	0.87	4429803	97.5	30 - 120	
165	Ho	1	8209648	0.83	8281520	99.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\193WASH.D\193WASH.D#
Date Acquired: Nov 8 2011 05:04 am
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 04:56 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.141 ppb	4.99	1.30	
51	V	72	1	4.974 ppb	1.39	6.50	
52	Cr	72	1	2.175 ppb	0.43	2.60	
55	Mn	72	1	1.151 ppb	1.89	1.30	
59	Co	72	1	1.094 ppb	0.95	1.30	
60	Ni	72	1	2.226 ppb	2.33	2.60	
63	Cu	72	1	2.177 ppb	2.10	2.60	
66	Zn	72	1	10.680 ppb	1.42	13.00	
75	As	72	1	5.142 ppb	1.47	6.50	
78	Se	72	1	5.760 ppb	8.99	6.50	
95	Mo	72	1	2.130 ppb	4.29	2.60	
107	Ag	115	1	5.020 ppb	2.04	6.50	
111	Cd	115	1	1.030 ppb	3.12	1.30	
118	Sn	115	1	9.799 ppb	1.35	13.00	
121	Sb	115	1	2.015 ppb	1.21	2.60	
137	Ba	115	1	1.131 ppb	4.12	1.30	
205	Tl	165	1	1.092 ppb	1.21	1.30	
208	Pb	165	1	1.082 ppb	1.68	1.30	
232	Th	165	1	2.083 ppb	2.78	2.60	
238	U	165	1	1.093 ppb	2.06	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	474455	0.42	482681	98.3	30 - 120	
45	Sc	1	2572352	0.28	2578039	99.8	30 - 120	
72	Ge	1	1577879	1.53	1602132	98.5	30 - 120	
115	In	1	4343106	1.48	4429803	98.0	30 - 120	
165	Ho	1	8218603	1.19	8281520	99.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\194_BLK.D\194_BLK.D#
Date Acquired:	Nov 8 2011 05:07 am
Operator:	LRD
Sample Name:	mb 280-93867/1-a
Misc Info:	BLANK 93867 AFCEE4
Vial Number:	4204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	-0.009 ppb	87.64	2.00	
51	V	72	1	0.004 ppb	700.13	2.00	
52	Cr	72	1	0.101 ppb	19.82	2.00	
55	Mn	72	1	0.194 ppb	4.70	2.00	
59	Co	72	1	0.003 ppb	21.24	2.00	
60	Ni	72	1	0.032 ppb	11.20	2.00	
63	Cu	72	1	0.049 ppb	15.23	2.00	
66	Zn	72	1	1.330 ppb	3.72	2.00	
75	As	72	1	0.006 ppb	149.40	2.00	
78	Se	72	1	0.292 ppb	23.51	2.00	
95	Mo	72	1	-0.001 ppb	492.19	2.00	
107	Ag	115	1	0.002 ppb	74.32	2.00	
111	Cd	115	1	0.006 ppb	46.16	2.00	
118	Sn	115	1	0.067 ppb	5.69	2.00	
121	Sb	115	1	0.007 ppb	28.98	2.00	
137	Ba	115	1	0.055 ppb	9.46	2.00	
205	Tl	165	1	0.013 ppb	24.31	2.00	
208	Pb	165	1	0.013 ppb	14.98	2.00	
232	Th	165	1	0.023 ppb	6.04	2.00	
238	U	165	1	0.003 ppb	24.32	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	478596	0.93	482681	99.2	30 - 120	
45	Sc	1	2584505	1.00	2578039	100.3	30 - 120	
72	Ge	1	1585134	0.44	1602132	98.9	30 - 120	
115	In	1	4423045	1.87	4429803	99.8	30 - 120	
165	Ho	1	8267105	0.55	8281520	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\195_LCS.D\195_LCS.D#
Date Acquired: Nov 8 2011 05:10 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-93867/2-a
Misc Info: LCS
Vial Number: 4205
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	39.81	2.85	40	99.5	80 - 120	
51 V	72	1	40.50	1.86	40	101.3	80 - 120	
52 Cr	72	1	41.08	2.69	40	102.7	80 - 120	
55 Mn	72	1	40.87	1.34	40	102.2	80 - 120	
59 Co	72	1	41.97	1.68	40	104.9	80 - 120	
60 Ni	72	1	40.87	0.95	40	102.2	80 - 120	
63 Cu	72	1	40.72	0.67	40	101.8	80 - 120	
66 Zn	72	1	40.48	0.47	40	101.2	80 - 120	
75 As	72	1	39.74	0.59	40	99.4	80 - 120	
78 Se	72	1	40.09	3.37	40	100.2	80 - 120	
95 Mo	72	1	42.13	0.36	40	105.3	80 - 120	
107 Ag	115	1	41.91	1.88	40	104.8	80 - 120	
111 Cd	115	1	40.17	1.32	40	100.4	80 - 120	
118 Sn	115	1	40.56	1.19	40	101.4	80 - 120	
121 Sb	115	1	39.52	1.50	40	98.8	80 - 120	
137 Ba	115	1	41.49	0.96	40	103.7	80 - 120	
205 Tl	165	1	42.66	0.89	40	106.7	80 - 120	
208 Pb	165	1	41.67	1.23	40	104.2	80 - 120	
232 Th	165	1	42.79	1.95	40	107.0	80 - 120	
238 U	165	1	43.03	2.80	40	107.6	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	478143	1.00	482681	99.1	30 - 120	
45 Sc	1	2580675	1.54	2578039	100.1	30 - 120	
72 Ge	1	1591547	0.64	1602132	99.3	30 - 120	
115 In	1	4349585	1.01	4429803	98.2	30 - 120	
165 Ho	1	8237046	0.65	8281520	99.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Labratory Control Spike Duplicate Sample (LCSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\196LCSD.D\196LCSD.D#
Date Acquired: Nov 8 2011 05:13 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcsd 280-93867/3-a
Misc Info: LCSD
Vial Number: 4206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: LCSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110711.B\195_LCS.D\195_LCS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9	Be	6	1	39.71	ppb	2.25	39.81	0.25	2000	
51	V	72	1	41.36	ppb	0.56	40.50	2.10	2000	
52	Cr	72	1	42.95	ppb	1.09	41.08	4.45	2000	
55	Mn	72	1	41.28	ppb	1.05	40.87	1.00	2000	
59	Co	72	1	42.42	ppb	2.18	41.97	1.07	2000	
60	Ni	72	1	41.62	ppb	1.20	40.87	1.82	2000	
63	Cu	72	1	41.18	ppb	0.84	40.72	1.12	2000	
66	Zn	72	1	40.51	ppb	0.34	40.48	0.07	2000	
75	As	72	1	39.95	ppb	0.17	39.74	0.53	2000	
78	Se	72	1	40.30	ppb	3.10	40.09	0.52	2000	
95	Mo	72	1	42.94	ppb	0.67	42.13	1.90	2000	
107	Ag	115	1	41.76	ppb	3.22	41.91	0.36	2000	
111	Cd	115	1	40.36	ppb	1.10	40.17	0.47	2000	
118	Sn	115	1	40.57	ppb	1.94	40.56	0.02	2000	
121	Sb	115	1	39.58	ppb	1.66	39.52	0.15	2000	
137	Ba	115	1	41.04	ppb	1.64	41.49	1.09	2000	
205	Tl	165	1	42.18	ppb	1.23	42.66	1.13	2000	
208	Pb	165	1	41.39	ppb	1.39	41.67	0.67	2000	
232	Th	165	1	42.56	ppb	0.47	42.79	0.54	2000	
238	U	165	1	43.48	ppb	2.09	43.03	1.04	2000	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	477080	0.75	482681	98.8	30 - 120	
45	Sc	1	2592020	1.40	2578039	100.5	30 - 120	
72	Ge	1	1573257	0.99	1602132	98.2	30 - 120	
115	In	1	4360242	0.90	4429803	98.4	30 - 120	
165	Ho	1	8263713	1.42	8281520	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\197AREF.D\197AREF.D#
Date Acquired:	Nov 8 2011 05:16 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21945-a-20-c
Misc Info:	
Vial Number:	4207
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	118.80	118.80	ppb	1.13	3600	
51	V	72	1	1,460.00	1460.00	ppb	1.73	3600	
52	Cr	72	1	896.10	896.10	ppb	2.39	3600	
55	Mn	72	1	731.70	731.70	ppb	1.77	18000	
59	Co	72	1	672.20	672.20	ppb	1.98	3600	
60	Ni	72	1	652.50	652.50	ppb	1.21	3600	
63	Cu	72	1	828.50	828.50	ppb	2.39	3600	
66	Zn	72	1	1,440.00	1440.00	ppb	1.98	3600	
75	As	72	1	859.60	859.60	ppb	2.39	3600	
78	Se	72	1	523.90	523.90	ppb	2.11	3600	
95	Mo	72	1	367.00	367.00	ppb	2.26	3600	
107	Ag	115	1	190.70	190.70	ppb	1.09	3600	
111	Cd	115	1	87.32	87.32	ppb	0.69	3600	
118	Sn	115	1	0.23	0.23	ppb	3.91	3600	
121	Sb	115	1	900.80	900.80	ppb	0.30	3600	
137	Ba	115	1	1,103.00	1103.00	ppb	0.11	3600	
205	Tl	165	1	797.00	797.00	ppb	1.00	3600	
208	Pb	165	1	350.50	350.50	ppb	0.15	3600	
232	Th	165	1	0.06	0.06	ppb	7.79	1000	
238	U	165	1	0.01	0.01	ppb	10.37	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	468030	1.17	482681	97.0	30 - 120	
45	Sc	1	2497415	1.09	2578039	96.9	30 - 120	
72	Ge	1	1531939	1.64	1602132	95.6	30 - 120	
115	In	1	4305677	1.08	4429803	97.2	30 - 120	
165	Ho	1	8202636	0.63	8281520	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\198SDIL.D\198SDIL.D#
Date Acquired:	Nov 8 2011 05:19 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21945-a-20-c SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	4208
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110711.B\197AREF.D\197AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	24.93	ppb	1.62	23.76	104.9	90 - 110	
51	V	72	1	291.20	ppb	0.44	292.00	99.7	90 - 110	
52	Cr	72	1	178.90	ppb	1.33	179.22	99.8	90 - 110	
55	Mn	72	1	147.00	ppb	1.65	146.34	100.5	90 - 110	
59	Co	72	1	132.90	ppb	0.42	134.44	98.9	90 - 110	
60	Ni	72	1	127.50	ppb	2.44	130.50	97.7	90 - 110	
63	Cu	72	1	165.90	ppb	1.14	165.70	100.1	90 - 110	
66	Zn	72	1	296.90	ppb	1.16	288.00	103.1	90 - 110	
75	As	72	1	171.40	ppb	0.46	171.92	99.7	90 - 110	
78	Se	72	1	107.90	ppb	0.67	104.78	103.0	90 - 110	
95	Mo	72	1	71.73	ppb	0.84	73.40	97.7	90 - 110	
107	Ag	115	1	39.15	ppb	2.53	38.14	102.6	90 - 110	
111	Cd	115	1	17.47	ppb	0.08	17.46	100.0	90 - 110	
118	Sn	115	1	0.12	ppb	3.71	0.05	256.1	90 - 110	
121	Sb	115	1	188.10	ppb	0.92	180.16	104.4	90 - 110	
137	Ba	115	1	227.90	ppb	0.91	220.60	103.3	90 - 110	
205	Tl	165	1	158.30	ppb	1.73	159.40	99.3	90 - 110	
208	Pb	165	1	71.74	ppb	1.46	70.10	102.3	90 - 110	
232	Th	165	1	0.01	ppb	14.70	0.01	91.6	90 - 110	
238	U	165	1	0.00	ppb	18.45	0.00	96.3	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	458679	0.79	482681	95.0	30 - 120	
45	Sc	1	2492181	2.27	2578039	96.7	30 - 120	
72	Ge	1	1534976	0.77	1602132	95.8	30 - 120	
115	In	1	4242970	0.59	4429803	95.8	30 - 120	
165	Ho	1	8125893	0.12	8281520	98.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\199PDS.D\199PDS.D#	
Date Acquired:	Nov 8 2011 05:21 am	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	LRD	**ISTD: Pass**
Sample Name:	280-21945-a-20-c PDS	
Misc Info:	POST DIGESTION SPIKE	
Vial Number:	4209	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 08 2011 04:56 am	
Sample Type:	PDS	
Prep Dil. Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	305.50	118.80	ppb	0.59	200	95.8	75 - 125	
51 V	72	1	1615.00	1460.00	ppb	1.50	200	97.3	75 - 125	
52 Cr	72	1	1071.00	896.10	ppb	1.29	200	97.7	75 - 125	
55 Mn	72	1	909.80	731.70	ppb	1.60	200	97.6	75 - 125	
59 Co	72	1	850.80	672.20	ppb	1.43	200	97.5	75 - 125	
60 Ni	72	1	827.10	652.50	ppb	0.74	200	97.0	75 - 125	
63 Cu	72	1	998.20	828.50	ppb	0.71	200	97.1	75 - 125	
66 Zn	72	1	1590.00	1440.00	ppb	0.51	200	97.0	75 - 125	
75 As	72	1	1039.00	859.60	ppb	0.92	200	98.1	75 - 125	
78 Se	72	1	702.70	523.90	ppb	1.82	200	97.1	75 - 125	
95 Mo	72	1	557.50	367.00	ppb	0.81	200	98.3	75 - 125	
107 Ag	115	1	236.40	190.70	ppb	0.23	50	98.2	75 - 125	
111 Cd	115	1	289.30	87.32	ppb	0.42	200	100.7	75 - 125	
118 Sn	115	1	199.70	0.23	ppb	1.55	200	99.7	75 - 125	
121 Sb	115	1	1075.00	900.80	ppb	0.16	200	97.7	75 - 125	
137 Ba	115	1	1277.00	1103.00	ppb	0.88	200	98.0	75 - 125	
205 Tl	165	1	969.50	797.00	ppb	0.38	200	97.2	75 - 125	
208 Pb	165	1	536.60	350.50	ppb	0.55	200	97.5	75 - 125	
232 Th	165	1	0.08	0.06	ppb	7.03	200	0.0	75 - 125	
238 U	165	1	204.80	0.01	ppb	0.13	200	102.4	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	467985	0.85	482681	97.0	30 - 120	
45 Sc	1	2511301	1.13	2578039	97.4	30 - 120	
72 Ge	1	1519100	1.81	1602132	94.8	30 - 120	
115 In	1	4245180	0.35	4429803	95.8	30 - 120	
165 Ho	1	8223490	0.70	8281520	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\200_CCV.D\200_CCV.D#
Date Acquired:	Nov 8 2011 05:24 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.75	ppb	1.92	50	99.5	90 - 110	
51	V	72	1	51.08	ppb	2.73	50	102.2	90 - 110	
52	Cr	72	1	51.97	ppb	1.52	50	103.9	90 - 110	
55	Mn	72	1	51.65	ppb	1.99	50	103.3	90 - 110	
59	Co	72	1	51.59	ppb	1.85	50	103.2	90 - 110	
60	Ni	72	1	50.65	ppb	1.61	50	101.3	90 - 110	
63	Cu	72	1	49.69	ppb	1.23	50	99.4	90 - 110	
66	Zn	72	1	51.51	ppb	1.64	50	103.0	90 - 110	
75	As	72	1	50.72	ppb	1.74	50	101.4	90 - 110	
78	Se	72	1	51.46	ppb	1.16	50	102.9	90 - 110	
95	Mo	72	1	51.57	ppb	1.82	50	103.1	90 - 110	
107	Ag	115	1	51.10	ppb	1.76	50	102.2	90 - 110	
111	Cd	115	1	50.44	ppb	0.67	50	100.9	90 - 110	
118	Sn	115	1	48.95	ppb	0.84	50	97.9	90 - 110	
121	Sb	115	1	49.84	ppb	0.42	50	99.7	90 - 110	
137	Ba	115	1	50.50	ppb	0.08	50	101.0	90 - 110	
205	Tl	165	1	52.03	ppb	0.13	50	104.1	90 - 110	
208	Pb	165	1	50.38	ppb	0.56	50	100.8	90 - 110	
232	Th	165	1	51.44	ppb	0.18	50	102.9	90 - 110	
238	U	165	1	52.49	ppb	1.24	50	105.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	455691	0.64	482681	94.4	30 - 120	
45	Sc	1	2462029	0.64	2578039	95.5	30 - 120	
72	Ge	1	1511068	1.11	1602132	94.3	30 - 120	
115	In	1	4220174	0.88	4429803	95.3	30 - 120	
165	Ho	1	8065590	0.32	8281520	97.4	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\201_CCB.D\201_CCB.D#
Date Acquired:	Nov 8 2011 05:27 am
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.015	ppb	249.80	1.00	
51	V	72	1	0.060	ppb	9.48	1.00	
52	Cr	72	1	0.042	ppb	28.95	1.00	
55	Mn	72	1	0.050	ppb	8.55	1.00	
59	Co	72	1	0.059	ppb	15.52	1.00	
60	Ni	72	1	0.049	ppb	15.35	1.00	
63	Cu	72	1	0.086	ppb	8.79	1.00	
66	Zn	72	1	0.129	ppb	6.37	1.00	
75	As	72	1	0.070	ppb	1.34	1.00	
78	Se	72	1	0.259	ppb	29.38	1.00	
95	Mo	72	1	0.045	ppb	34.98	1.00	
107	Ag	115	1	0.023	ppb	11.30	1.00	
111	Cd	115	1	0.024	ppb	2.52	1.00	
118	Sn	115	1	0.072	ppb	19.54	1.00	
121	Sb	115	1	0.276	ppb	6.19	1.00	
137	Ba	115	1	0.069	ppb	9.97	1.00	
205	Tl	165	1	0.092	ppb	1.93	1.00	
208	Pb	165	1	0.036	ppb	0.48	1.00	
232	Th	165	1	0.046	ppb	4.02	1.00	
238	U	165	1	0.024	ppb	3.46	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454879	0.97	482681	94.2	30 - 120	
45	Sc	1	2447774	1.57	2578039	94.9	30 - 120	
72	Ge	1	1526390	1.47	1602132	95.3	30 - 120	
115	In	1	4259502	0.36	4429803	96.2	30 - 120	
165	Ho	1	7981432	0.41	8281520	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\202_BLK.D\202_BLK.D#
Date Acquired:	Nov 8 2011 05:30 am
Operator:	LRD
Sample Name:	mb 280-91965/1-a
Misc Info:	BLANK 91965 SOIL DOD4/6020
Vial Number:	4210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.005 ppb	395.79	2.00	
51	V	72	1	0.044 ppb	49.22	2.00	
52	Cr	72	1	0.102 ppb	5.48	2.00	
55	Mn	72	1	0.136 ppb	4.72	2.00	
59	Co	72	1	0.024 ppb	24.46	2.00	
60	Ni	72	1	0.058 ppb	22.97	2.00	
63	Cu	72	1	0.202 ppb	4.47	2.00	
66	Zn	72	1	0.368 ppb	5.02	2.00	
75	As	72	1	0.035 ppb	30.50	2.00	
78	Se	72	1	0.207 ppb	145.14	2.00	
95	Mo	72	1	0.012 ppb	79.20	2.00	
107	Ag	115	1	0.010 ppb	23.97	2.00	
111	Cd	115	1	0.011 ppb	23.34	2.00	
118	Sn	115	1	0.153 ppb	5.97	2.00	
121	Sb	115	1	0.168 ppb	10.80	2.00	
137	Ba	115	1	0.097 ppb	14.13	2.00	
205	Tl	165	1	0.045 ppb	6.21	2.00	
208	Pb	165	1	0.031 ppb	5.38	2.00	
232	Th	165	1	0.018 ppb	8.78	2.00	
238	U	165	1	0.010 ppb	7.01	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	458495	0.30	482681	95.0	30 - 120	
45	Sc	1	2483048	2.42	2578039	96.3	30 - 120	
72	Ge	1	1518812	1.10	1602132	94.8	30 - 120	
115	In	1	4259920	1.19	4429803	96.2	30 - 120	
165	Ho	1	8102045	1.72	8281520	97.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\203_LCS.D\203_LCS.D#
Date Acquired:	Nov 8 2011 05:33 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-91965/2-a
Misc Info:	LCS
Vial Number:	4211
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	38.40	1.74	40	96.0	80 - 120	
51	V	72	1	37.68	0.63	40	94.2	80 - 120	
52	Cr	72	1	38.72	0.52	40	96.8	80 - 120	
55	Mn	72	1	38.72	2.02	40	96.8	80 - 120	
59	Co	72	1	39.70	3.96	40	99.3	80 - 120	
60	Ni	72	1	39.20	2.47	40	98.0	80 - 120	
63	Cu	72	1	38.82	2.48	40	97.1	80 - 120	
66	Zn	72	1	39.05	1.15	40	97.6	80 - 120	
75	As	72	1	38.55	0.97	40	96.4	80 - 120	
78	Se	72	1	40.17	1.08	40	100.4	80 - 120	
95	Mo	72	1	39.30	2.57	40	98.3	80 - 120	
107	Ag	115	1	37.97	1.60	40	94.9	80 - 120	
111	Cd	115	1	38.65	1.20	40	96.6	80 - 120	
118	Sn	115	1	37.86	0.21	40	94.7	80 - 120	
121	Sb	115	1	37.50	0.93	40	93.8	80 - 120	
137	Ba	115	1	38.88	1.49	40	97.2	80 - 120	
205	Tl	165	1	40.42	1.38	40	101.1	80 - 120	
208	Pb	165	1	39.94	0.52	40	99.9	80 - 120	
232	Th	165	1	40.21	0.68	40	100.5	80 - 120	
238	U	165	1	41.81	1.88	40	104.5	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	462415	1.33	482681	95.8	30 - 120	
45	Sc	1	2467473	1.20	2578039	95.7	30 - 120	
72	Ge	1	1531752	1.98	1602132	95.6	30 - 120	
115	In	1	4247429	0.67	4429803	95.9	30 - 120	
165	Ho	1	8003965	0.24	8281520	96.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\204SMPL.D\204SMPL.D#
Date Acquired:	Nov 8 2011 05:36 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21556-a-1-a
Misc Info:	
Vial Number:	4212
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.43	0.43	ppb	26.62	3600	
51	V	72	1	56.07	56.07	ppb	0.54	3600	
52	Cr	72	1	32.47	32.47	ppb	1.14	3600	
55	Mn	72	1	563.00	563.00	ppb	1.20	18000	
59	Co	72	1	15.86	15.86	ppb	1.50	3600	
60	Ni	72	1	42.62	42.62	ppb	1.03	3600	
63	Cu	72	1	28.00	28.00	ppb	1.53	3600	
66	Zn	72	1	94.48	94.48	ppb	1.14	3600	
75	As	72	1	11.72	11.72	ppb	1.04	3600	
78	Se	72	1	1.29	1.29	ppb	13.53	3600	
95	Mo	72	1	1.52	1.52	ppb	1.88	3600	
107	Ag	115	1	0.13	0.13	ppb	12.23	3600	
111	Cd	115	1	0.57	0.57	ppb	5.15	3600	
118	Sn	115	1	0.31	0.31	ppb	7.05	3600	
121	Sb	115	1	0.17	0.17	ppb	5.83	3600	
137	Ba	115	1	269.30	269.30	ppb	2.04	3600	
205	Tl	165	1	0.19	0.19	ppb	3.45	3600	
208	Pb	165	1	10.42	10.42	ppb	0.97	3600	
232	Th	165	1	4.82	4.82	ppb	0.74	1000	
238	U	165	1	0.85	0.85	ppb	0.76	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	455623	0.38	482681	94.4	30 - 120	
45	Sc	1	2525727	1.88	2578039	98.0	30 - 120	
72	Ge	1	1520066	1.56	1602132	94.9	30 - 120	
115	In	1	4136222	1.49	4429803	93.4	30 - 120	
165	Ho	1	8054751	0.70	8281520	97.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\205SMPL.D\205SMPL.D#
Date Acquired:	Nov 8 2011 05:39 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21556-a-2-a
Misc Info:	
Vial Number:	4301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.67	0.67	ppb	21.93	3600	
51	V	72	1	80.49	80.49	ppb	1.61	3600	
52	Cr	72	1	51.43	51.43	ppb	1.47	3600	
55	Mn	72	1	912.80	912.80	ppb	2.96	18000	
59	Co	72	1	20.75	20.75	ppb	3.22	3600	
60	Ni	72	1	59.50	59.50	ppb	2.18	3600	
63	Cu	72	1	52.67	52.67	ppb	1.57	3600	
66	Zn	72	1	144.40	144.40	ppb	1.43	3600	
75	As	72	1	18.36	18.36	ppb	1.17	3600	
78	Se	72	1	2.25	2.25	ppb	17.69	3600	
95	Mo	72	1	1.79	1.79	ppb	2.25	3600	
107	Ag	115	1	0.21	0.21	ppb	5.62	3600	
111	Cd	115	1	0.96	0.96	ppb	5.59	3600	
118	Sn	115	1	0.29	0.29	ppb	4.51	3600	
121	Sb	115	1	0.16	0.16	ppb	5.84	3600	
137	Ba	115	1	403.90	403.90	ppb	1.22	3600	
205	Tl	165	1	0.23	0.23	ppb	1.71	3600	
208	Pb	165	1	15.05	15.05	ppb	0.59	3600	
232	Th	165	1	8.49	8.49	ppb	1.60	1000	
238	U	165	1	1.59	1.59	ppb	0.97	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	443945	1.19	482681	92.0	30 - 120	
45	Sc	1	2541113	1.05	2578039	98.6	30 - 120	
72	Ge	1	1509418	0.92	1602132	94.2	30 - 120	
115	In	1	4088032	0.13	4429803	92.3	30 - 120	
165	Ho	1	7914265	0.94	8281520	95.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\206SMPL.D\206SMPL.D#
Date Acquired: Nov 8 2011 05:42 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21556-a-3-a
Misc Info:
Vial Number: 4302
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.73	0.73	ppb	5.91	3600	
51 V	72	1	78.63	78.63	ppb	0.70	3600	
52 Cr	72	1	49.57	49.57	ppb	0.86	3600	
55 Mn	72	1	961.60	961.60	ppb	1.61	18000	
59 Co	72	1	19.43	19.43	ppb	0.87	3600	
60 Ni	72	1	59.10	59.10	ppb	0.56	3600	
63 Cu	72	1	51.61	51.61	ppb	0.34	3600	
66 Zn	72	1	151.40	151.40	ppb	0.57	3600	
75 As	72	1	19.09	19.09	ppb	1.70	3600	
78 Se	72	1	2.16	2.16	ppb	34.84	3600	
95 Mo	72	1	1.83	1.83	ppb	2.14	3600	
107 Ag	115	1	0.25	0.25	ppb	4.20	3600	
111 Cd	115	1	0.98	0.98	ppb	1.64	3600	
118 Sn	115	1	0.25	0.25	ppb	4.47	3600	
121 Sb	115	1	0.13	0.13	ppb	11.61	3600	
137 Ba	115	1	456.90	456.90	ppb	1.06	3600	
205 Tl	165	1	0.25	0.25	ppb	3.13	3600	
208 Pb	165	1	16.04	16.04	ppb	1.54	3600	
232 Th	165	1	8.28	8.28	ppb	0.96	1000	
238 U	165	1	1.53	1.53	ppb	1.93	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	441269	0.92	482681	91.4	30 - 120	
45 Sc	1	2564158	0.77	2578039	99.5	30 - 120	
72 Ge	1	1505518	0.42	1602132	94.0	30 - 120	
115 In	1	4097247	1.17	4429803	92.5	30 - 120	
165 Ho	1	7966557	0.84	8281520	96.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\207SMPL.D\207SMPL.D#
Date Acquired: Nov 8 2011 05:45 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21556-a-4-a
Misc Info:
Vial Number: 4303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.26	0.26	ppb	42.71	3600	
51	V	72	1	37.77	37.77	ppb	1.62	3600	
52	Cr	72	1	22.71	22.71	ppb	0.72	3600	
55	Mn	72	1	596.80	596.80	ppb	0.71	18000	
59	Co	72	1	11.43	11.43	ppb	1.74	3600	
60	Ni	72	1	30.08	30.08	ppb	2.14	3600	
63	Cu	72	1	12.15	12.15	ppb	1.49	3600	
66	Zn	72	1	52.81	52.81	ppb	1.49	3600	
75	As	72	1	7.66	7.66	ppb	2.42	3600	
78	Se	72	1	0.92	0.92	ppb	21.06	3600	
95	Mo	72	1	0.61	0.61	ppb	3.28	3600	
107	Ag	115	1	0.05	0.05	ppb	11.34	3600	
111	Cd	115	1	0.30	0.30	ppb	5.52	3600	
118	Sn	115	1	0.23	0.23	ppb	10.92	3600	
121	Sb	115	1	0.09	0.09	ppb	1.45	3600	
137	Ba	115	1	163.80	163.80	ppb	0.70	3600	
205	Tl	165	1	0.11	0.11	ppb	4.97	3600	
208	Pb	165	1	6.73	6.73	ppb	0.34	3600	
232	Th	165	1	3.31	3.31	ppb	2.24	1000	
238	U	165	1	0.61	0.61	ppb	0.71	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	464396	0.81	482681	96.2	30 - 120	
45	Sc	1	2576010	0.18	2578039	99.9	30 - 120	
72	Ge	1	1576067	2.29	1602132	98.4	30 - 120	
115	In	1	4226712	1.20	4429803	95.4	30 - 120	
165	Ho	1	8136806	0.50	8281520	98.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\208SMPL.D\208SMPL.D#
Date Acquired: Nov 8 2011 05:48 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21556-a-5-a
Misc Info:
Vial Number: 4304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.32	0.32	ppb	2.46	3600	
51	V	72	1	39.09	39.09	ppb	1.13	3600	
52	Cr	72	1	22.36	22.36	ppb	1.15	3600	
55	Mn	72	1	530.80	530.80	ppb	0.72	18000	
59	Co	72	1	11.94	11.94	ppb	2.14	3600	
60	Ni	72	1	31.02	31.02	ppb	2.29	3600	
63	Cu	72	1	13.42	13.42	ppb	1.71	3600	
66	Zn	72	1	55.78	55.78	ppb	1.72	3600	
75	As	72	1	6.92	6.92	ppb	1.38	3600	
78	Se	72	1	0.56	0.56	ppb	35.93	3600	
95	Mo	72	1	0.50	0.50	ppb	2.53	3600	
107	Ag	115	1	0.05	0.05	ppb	3.28	3600	
111	Cd	115	1	0.34	0.34	ppb	3.47	3600	
118	Sn	115	1	0.20	0.20	ppb	9.78	3600	
121	Sb	115	1	0.08	0.08	ppb	7.15	3600	
137	Ba	115	1	155.70	155.70	ppb	1.59	3600	
205	Tl	165	1	0.10	0.10	ppb	2.93	3600	
208	Pb	165	1	6.42	6.42	ppb	0.83	3600	
232	Th	165	1	3.31	3.31	ppb	1.13	1000	
238	U	165	1	0.52	0.52	ppb	0.90	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	462306	0.78	482681	95.8	30 - 120	
45	Sc	1	2585382	0.19	2578039	100.3	30 - 120	
72	Ge	1	1577504	1.65	1602132	98.5	30 - 120	
115	In	1	4273605	0.18	4429803	96.5	30 - 120	
165	Ho	1	8219982	0.30	8281520	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\209SMPL.D\209SMPL.D#
Date Acquired:	Nov 8 2011 05:50 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21556-a-8-a
Misc Info:	
Vial Number:	4305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.70	0.70	ppb	12.87	3600	
51	V	72	1	70.53	70.53	ppb	0.88	3600	
52	Cr	72	1	42.74	42.74	ppb	2.99	3600	
55	Mn	72	1	795.30	795.30	ppb	0.30	18000	
59	Co	72	1	18.37	18.37	ppb	1.23	3600	
60	Ni	72	1	52.85	52.85	ppb	1.36	3600	
63	Cu	72	1	48.72	48.72	ppb	1.34	3600	
66	Zn	72	1	121.60	121.60	ppb	0.63	3600	
75	As	72	1	16.69	16.69	ppb	0.80	3600	
78	Se	72	1	1.69	1.69	ppb	7.91	3600	
95	Mo	72	1	1.30	1.30	ppb	3.25	3600	
107	Ag	115	1	0.18	0.18	ppb	3.81	3600	
111	Cd	115	1	0.79	0.79	ppb	3.34	3600	
118	Sn	115	1	0.25	0.25	ppb	5.79	3600	
121	Sb	115	1	0.13	0.13	ppb	1.14	3600	
137	Ba	115	1	361.80	361.80	ppb	1.12	3600	
205	Tl	165	1	0.19	0.19	ppb	1.37	3600	
208	Pb	165	1	13.45	13.45	ppb	1.24	3600	
232	Th	165	1	7.39	7.39	ppb	2.06	1000	
238	U	165	1	1.45	1.45	ppb	0.78	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	449589	0.79	482681	93.1	30 - 120	
45	Sc	1	2562884	1.17	2578039	99.4	30 - 120	
72	Ge	1	1529718	1.01	1602132	95.5	30 - 120	
115	In	1	4148205	1.24	4429803	93.6	30 - 120	
165	Ho	1	8028725	0.61	8281520	96.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\210SMPL.D\210SMPL.D#
Date Acquired: Nov 8 2011 05:53 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21556-a-9-a
Misc Info:
Vial Number: 4306
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.65	0.65	ppb	15.37	3600	
51	V	72	1	76.35	76.35	ppb	1.86	3600	
52	Cr	72	1	47.44	47.44	ppb	1.87	3600	
55	Mn	72	1	847.10	847.10	ppb	0.47	18000	
59	Co	72	1	19.55	19.55	ppb	1.45	3600	
60	Ni	72	1	56.10	56.10	ppb	1.54	3600	
63	Cu	72	1	51.71	51.71	ppb	1.89	3600	
66	Zn	72	1	145.70	145.70	ppb	0.79	3600	
75	As	72	1	18.29	18.29	ppb	0.61	3600	
78	Se	72	1	2.54	2.54	ppb	16.47	3600	
95	Mo	72	1	1.38	1.38	ppb	1.32	3600	
107	Ag	115	1	0.24	0.24	ppb	2.57	3600	
111	Cd	115	1	0.96	0.96	ppb	7.82	3600	
118	Sn	115	1	0.22	0.22	ppb	4.32	3600	
121	Sb	115	1	0.11	0.11	ppb	3.10	3600	
137	Ba	115	1	419.00	419.00	ppb	0.83	3600	
205	Tl	165	1	0.22	0.22	ppb	0.44	3600	
208	Pb	165	1	15.16	15.16	ppb	0.40	3600	
232	Th	165	1	7.99	7.99	ppb	1.84	1000	
238	U	165	1	1.43	1.43	ppb	0.98	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	443021	0.52	482681	91.8	30 - 120	
45	Sc	1	2569298	1.87	2578039	99.7	30 - 120	
72	Ge	1	1536058	1.28	1602132	95.9	30 - 120	
115	In	1	4142643	1.39	4429803	93.5	30 - 120	
165	Ho	1	8018781	0.47	8281520	96.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\211_CCV.D\211_CCV.D#
Date Acquired:	Nov 8 2011 05:56 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.96	ppb	1.76	50	99.9	90 - 110	
51	V	72	1	50.27	ppb	1.99	50	100.5	90 - 110	
52	Cr	72	1	50.36	ppb	2.32	50	100.7	90 - 110	
55	Mn	72	1	50.77	ppb	2.02	50	101.5	90 - 110	
59	Co	72	1	51.49	ppb	1.50	50	103.0	90 - 110	
60	Ni	72	1	50.20	ppb	0.35	50	100.4	90 - 110	
63	Cu	72	1	49.45	ppb	0.44	50	98.9	90 - 110	
66	Zn	72	1	50.60	ppb	0.59	50	101.2	90 - 110	
75	As	72	1	50.38	ppb	0.60	50	100.8	90 - 110	
78	Se	72	1	50.82	ppb	1.84	50	101.6	90 - 110	
95	Mo	72	1	50.20	ppb	0.51	50	100.4	90 - 110	
107	Ag	115	1	50.76	ppb	0.49	50	101.5	90 - 110	
111	Cd	115	1	49.76	ppb	0.50	50	99.5	90 - 110	
118	Sn	115	1	48.53	ppb	1.86	50	97.1	90 - 110	
121	Sb	115	1	48.48	ppb	0.92	50	97.0	90 - 110	
137	Ba	115	1	49.09	ppb	0.71	50	98.2	90 - 110	
205	Tl	165	1	51.30	ppb	1.13	50	102.6	90 - 110	
208	Pb	165	1	50.14	ppb	0.49	50	100.3	90 - 110	
232	Th	165	1	51.04	ppb	2.44	50	102.1	90 - 110	
238	U	165	1	51.42	ppb	1.97	50	102.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	459632	0.45	482681	95.2	30 - 120	
45	Sc	1	2570728	0.48	2578039	99.7	30 - 120	
72	Ge	1	1587549	0.09	1602132	99.1	30 - 120	
115	In	1	4363353	0.37	4429803	98.5	30 - 120	
165	Ho	1	8082992	0.23	8281520	97.6	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\212_CCB.D\212_CCB.D#
Date Acquired:	Nov 8 2011 05:59 am
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.008	ppb	93.19	1.00	
51	V	72	1	0.008	ppb	100.72	1.00	
52	Cr	72	1	0.008	ppb	276.84	1.00	
55	Mn	72	1	-0.018	ppb	39.12	1.00	
59	Co	72	1	0.009	ppb	18.87	1.00	
60	Ni	72	1	0.006	ppb	31.40	1.00	
63	Cu	72	1	0.010	ppb	38.99	1.00	
66	Zn	72	1	-0.015	ppb	26.38	1.00	
75	As	72	1	0.010	ppb	52.88	1.00	
78	Se	72	1	0.261	ppb	91.48	1.00	
95	Mo	72	1	0.002	ppb	303.55	1.00	
107	Ag	115	1	0.008	ppb	37.63	1.00	
111	Cd	115	1	0.006	ppb	80.92	1.00	
118	Sn	115	1	0.034	ppb	26.75	1.00	
121	Sb	115	1	0.029	ppb	13.52	1.00	
137	Ba	115	1	0.013	ppb	23.06	1.00	
205	Tl	165	1	0.024	ppb	12.43	1.00	
208	Pb	165	1	0.007	ppb	4.82	1.00	
232	Th	165	1	0.025	ppb	6.43	1.00	
238	U	165	1	0.007	ppb	10.75	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	458457	0.49	482681	95.0	30 - 120	
45	Sc	1	2558267	1.13	2578039	99.2	30 - 120	
72	Ge	1	1599845	0.14	1602132	99.9	30 - 120	
115	In	1	4375966	0.93	4429803	98.8	30 - 120	
165	Ho	1	8201144	0.97	8281520	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\213WASH.D\213WASH.D#
Date Acquired:	Nov 8 2011 06:02 am
Operator:	LRD
Sample Name:	LLICV-1116520
Misc Info:	
Vial Number:	1206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.112 ppb	9.83	1.30	
51	V	72	1	4.912 ppb	1.10	6.50	
52	Cr	72	1	2.185 ppb	0.95	2.60	
55	Mn	72	1	1.159 ppb	4.26	1.30	
59	Co	72	1	1.099 ppb	1.74	1.30	
60	Ni	72	1	2.327 ppb	1.04	2.60	
63	Cu	72	1	2.193 ppb	2.35	2.60	
66	Zn	72	1	10.580 ppb	1.32	13.00	
75	As	72	1	5.102 ppb	0.72	6.50	
78	Se	72	1	5.364 ppb	16.02	6.50	
95	Mo	72	1	2.142 ppb	2.96	2.60	
107	Ag	115	1	4.975 ppb	1.02	6.50	
111	Cd	115	1	1.059 ppb	5.49	1.30	
118	Sn	115	1	9.721 ppb	0.82	13.00	
121	Sb	115	1	2.031 ppb	0.88	2.60	
137	Ba	115	1	1.097 ppb	2.54	1.30	
205	Tl	165	1	1.099 ppb	0.88	1.30	
208	Pb	165	1	1.089 ppb	1.00	1.30	
232	Th	165	1	2.087 ppb	1.01	2.60	
238	U	165	1	1.085 ppb	0.65	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	460706	1.56	482681	95.4	30 - 120	
45	Sc	1	2567876	0.35	2578039	99.6	30 - 120	
72	Ge	1	1593499	0.21	1602132	99.5	30 - 120	
115	In	1	4373865	0.83	4429803	98.7	30 - 120	
165	Ho	1	8151111	0.53	8281520	98.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\214AREF.D\214AREF.D#
Date Acquired: Nov 8 2011 06:05 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21556-a-10-a
Misc Info:
Vial Number: 4307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.73	0.73	ppb	20.66	3600	
51	V	72	1	76.45	76.45	ppb	1.73	3600	
52	Cr	72	1	48.52	48.52	ppb	1.53	3600	
55	Mn	72	1	748.20	748.20	ppb	1.85	18000	
59	Co	72	1	19.33	19.33	ppb	1.00	3600	
60	Ni	72	1	56.12	56.12	ppb	0.78	3600	
63	Cu	72	1	60.61	60.61	ppb	0.88	3600	
66	Zn	72	1	141.10	141.10	ppb	1.28	3600	
75	As	72	1	17.59	17.59	ppb	1.05	3600	
78	Se	72	1	2.06	2.06	ppb	5.66	3600	
95	Mo	72	1	1.37	1.37	ppb	0.30	3600	
107	Ag	115	1	0.27	0.27	ppb	10.41	3600	
111	Cd	115	1	0.88	0.88	ppb	4.08	3600	
118	Sn	115	1	0.30	0.30	ppb	1.26	3600	
121	Sb	115	1	0.11	0.11	ppb	5.12	3600	
137	Ba	115	1	418.40	418.40	ppb	0.69	3600	
205	Tl	165	1	0.24	0.24	ppb	1.70	3600	
208	Pb	165	1	15.85	15.85	ppb	0.43	3600	
232	Th	165	1	8.48	8.48	ppb	1.22	1000	
238	U	165	1	1.41	1.41	ppb	2.10	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	437509	0.60	482681	90.6	30 - 120	
45	Sc	1	2561365	0.50	2578039	99.4	30 - 120	
72	Ge	1	1538849	0.98	1602132	96.1	30 - 120	
115	In	1	4157470	0.48	4429803	93.9	30 - 120	
165	Ho	1	7944515	0.32	8281520	95.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\215SDIL.D\215SDIL.D#
Date Acquired: Nov 8 2011 06:08 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21556-a-10-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 4308
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110711.B\214AREF.D\214AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.14	ppb	9.68	0.15	95.3	90 - 110	
51	V	72	1	14.82	ppb	2.05	15.29	96.9	90 - 110	
52	Cr	72	1	9.48	ppb	1.55	9.70	97.7	90 - 110	
55	Mn	72	1	154.20	ppb	2.02	149.64	103.0	90 - 110	
59	Co	72	1	3.85	ppb	0.77	3.87	99.6	90 - 110	
60	Ni	72	1	11.34	ppb	2.12	11.22	101.0	90 - 110	
63	Cu	72	1	12.10	ppb	0.96	12.12	99.8	90 - 110	
66	Zn	72	1	28.40	ppb	1.15	28.22	100.6	90 - 110	
75	As	72	1	3.52	ppb	3.74	3.52	100.0	90 - 110	
78	Se	72	1	0.44	ppb	9.05	0.41	106.6	90 - 110	
95	Mo	72	1	0.25	ppb	8.83	0.27	91.1	90 - 110	
107	Ag	115	1	0.06	ppb	4.71	0.05	102.5	90 - 110	
111	Cd	115	1	0.18	ppb	8.00	0.18	100.6	90 - 110	
118	Sn	115	1	0.12	ppb	9.34	0.06	206.5	90 - 110	
121	Sb	115	1	0.03	ppb	13.04	0.02	152.9	90 - 110	
137	Ba	115	1	81.88	ppb	0.55	83.68	97.8	90 - 110	
205	Tl	165	1	0.05	ppb	3.30	0.05	106.9	90 - 110	
208	Pb	165	1	3.16	ppb	1.83	3.17	99.8	90 - 110	
232	Th	165	1	1.64	ppb	2.00	1.70	96.9	90 - 110	
238	U	165	1	0.27	ppb	1.95	0.28	96.8	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454266	0.32	482681	94.1	30 - 120	
45	Sc	1	2574162	1.52	2578039	99.8	30 - 120	
72	Ge	1	1598107	1.66	1602132	99.7	30 - 120	
115	In	1	4290676	0.35	4429803	96.9	30 - 120	
165	Ho	1	8149478	0.88	8281520	98.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\216PDS.D\216PDS.D#
Date Acquired:	Nov 8 2011 06:11 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21556-a-10-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	4309
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	205.50	0.73	ppb	1.58	200	102.4	75 - 125	
51 V	72	1	263.20	76.45	ppb	1.71	200	95.2	75 - 125	
52 Cr	72	1	238.20	48.52	ppb	1.63	200	95.8	75 - 125	
55 Mn	72	1	925.10	748.20	ppb	0.96	200	97.6	75 - 125	
59 Co	72	1	211.30	19.33	ppb	1.15	200	96.3	75 - 125	
60 Ni	72	1	256.50	56.12	ppb	0.98	200	100.1	75 - 125	
63 Cu	72	1	243.80	60.61	ppb	1.81	200	93.5	75 - 125	
66 Zn	72	1	341.20	141.10	ppb	1.18	200	100.0	75 - 125	
75 As	72	1	215.00	17.59	ppb	0.93	200	98.8	75 - 125	
78 Se	72	1	195.10	2.06	ppb	1.14	200	96.6	75 - 125	
95 Mo	72	1	208.20	1.37	ppb	1.89	200	103.4	75 - 125	
107 Ag	115	1	50.01	0.27	ppb	1.13	50	99.5	75 - 125	
111 Cd	115	1	202.60	0.88	ppb	0.45	200	100.9	75 - 125	
118 Sn	115	1	200.80	0.30	ppb	0.33	200	100.3	75 - 125	
121 Sb	115	1	199.20	0.11	ppb	0.55	200	99.5	75 - 125	
137 Ba	115	1	615.30	418.40	ppb	1.78	200	99.5	75 - 125	
205 Tl	165	1	195.20	0.24	ppb	1.51	200	97.5	75 - 125	
208 Pb	165	1	205.50	15.85	ppb	0.68	200	95.2	75 - 125	
232 Th	165	1	8.28	8.48	ppb	1.32	200	4.0	75 - 125	
238 U	165	1	199.40	1.41	ppb	0.36	200	99.0	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	435364	0.35	482681	90.2	30 - 120	
45 Sc	1	2513363	0.86	2578039	97.5	30 - 120	
72 Ge	1	1516651	0.55	1602132	94.7	30 - 120	
115 In	1	4092724	0.44	4429803	92.4	30 - 120	
165 Ho	1	7987747	0.55	8281520	96.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\217_MS.D\217_MS.D#
Date Acquired: Nov 8 2011 06:14 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21556-a-10-b ms
Misc Info: MATRIX SPIKE
Vial Number: 4310
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	42.68	0.73	ppb	0.92	40	104.8	50 - 150	
51 V	72	1	117.80	76.45	ppb	1.17	40	101.2	50 - 150	
52 Cr	72	1	90.18	48.52	ppb	1.25	40	101.9	50 - 150	
55 Mn	72	1	767.00	748.20	ppb	2.35	40	97.3	50 - 150	
59 Co	72	1	61.66	19.33	ppb	2.95	40	103.9	50 - 150	
60 Ni	72	1	95.70	56.12	ppb	1.88	40	99.6	50 - 150	
63 Cu	72	1	96.95	60.61	ppb	1.74	40	96.4	50 - 150	
66 Zn	72	1	178.50	141.10	ppb	1.62	40	98.6	50 - 150	
75 As	72	1	59.05	17.59	ppb	1.17	40	102.5	50 - 150	
78 Se	72	1	42.75	2.06	ppb	0.29	40	101.7	50 - 150	
95 Mo	72	1	40.22	1.37	ppb	1.57	40	97.2	50 - 150	
107 Ag	115	1	39.46	0.27	ppb	2.29	40	98.0	50 - 150	
111 Cd	115	1	42.18	0.88	ppb	3.03	40	103.2	50 - 150	
118 Sn	115	1	19.31	0.30	ppb	2.07	40	47.9	50 - 150	
121 Sb	115	1	3.55	0.11	ppb	2.90	40	8.8	50 - 150	
137 Ba	115	1	473.30	418.40	ppb	2.29	40	103.3	50 - 150	
205 Tl	165	1	41.15	0.24	ppb	1.78	40	102.3	50 - 150	
208 Pb	165	1	54.47	15.85	ppb	0.96	40	97.5	50 - 150	
232 Th	165	1	48.92	8.48	ppb	1.32	40	100.9	50 - 150	
238 U	165	1	43.89	1.41	ppb	0.76	40	106.0	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	437228	0.93	482681	90.6	30 - 120	
45 Sc	1	2551400	1.30	2578039	99.0	30 - 120	
72 Ge	1	1505606	0.73	1602132	94.0	30 - 120	
115 In	1	4096982	1.81	4429803	92.5	30 - 120	
165 Ho	1	7977594	0.99	8281520	96.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\218_MSD.D\218_MSD.D#
Date Acquired: Nov 8 2011 06:17 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21556-a-10-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 4311
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110711.B\217_MS.D\217_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	42.81	ppb	2.66	42.68	0.30	20	
51	V	72	1	108.90	ppb	3.26	117.80	7.85	20	
52	Cr	72	1	83.01	ppb	3.22	90.18	8.28	20	
55	Mn	72	1	724.80	ppb	1.77	767.00	5.66	20	
59	Co	72	1	59.10	ppb	1.81	61.66	4.24	20	
60	Ni	72	1	89.02	ppb	1.83	95.70	7.23	20	
63	Cu	72	1	84.29	ppb	2.88	96.95	13.97	20	
66	Zn	72	1	156.70	ppb	1.68	178.50	13.01	20	
75	As	72	1	56.96	ppb	1.59	59.05	3.60	20	
78	Se	72	1	41.09	ppb	3.03	42.75	3.96	20	
95	Mo	72	1	39.97	ppb	1.36	40.22	0.62	20	
107	Ag	115	1	39.11	ppb	1.33	39.46	0.89	20	
111	Cd	115	1	41.53	ppb	1.80	42.18	1.55	20	
118	Sn	115	1	20.88	ppb	0.98	19.31	7.81	20	
121	Sb	115	1	4.44	ppb	1.62	3.55	22.46	20	
137	Ba	115	1	407.40	ppb	0.95	473.30	14.97	20	
205	Tl	165	1	40.79	ppb	0.80	41.15	0.88	20	
208	Pb	165	1	51.66	ppb	0.73	54.47	5.30	20	
232	Th	165	1	48.43	ppb	1.31	48.92	1.01	20	
238	U	165	1	43.29	ppb	1.96	43.89	1.38	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	432530	0.87	482681	89.6	30 - 120	
45	Sc	1	2541035	0.47	2578039	98.6	30 - 120	
72	Ge	1	1508049	1.06	1602132	94.1	30 - 120	
115	In	1	4077497	0.95	4429803	92.0	30 - 120	
165	Ho	1	7944032	0.36	8281520	95.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\219SMPL.D\219SMPL.D#
Date Acquired:	Nov 8 2011 06:19 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21556-a-11-a
Misc Info:	
Vial Number:	4312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.23	0.23	ppb	18.47	3600	
51	V	72	1	36.93	36.93	ppb	0.58	3600	
52	Cr	72	1	21.71	21.71	ppb	1.16	3600	
55	Mn	72	1	638.10	638.10	ppb	0.83	18000	
59	Co	72	1	11.56	11.56	ppb	0.31	3600	
60	Ni	72	1	29.12	29.12	ppb	0.50	3600	
63	Cu	72	1	12.79	12.79	ppb	1.01	3600	
66	Zn	72	1	54.58	54.58	ppb	0.41	3600	
75	As	72	1	7.00	7.00	ppb	0.51	3600	
78	Se	72	1	0.83	0.83	ppb	20.43	3600	
95	Mo	72	1	0.95	0.95	ppb	3.23	3600	
107	Ag	115	1	0.08	0.08	ppb	10.39	3600	
111	Cd	115	1	0.36	0.36	ppb	9.50	3600	
118	Sn	115	1	0.21	0.21	ppb	8.76	3600	
121	Sb	115	1	0.07	0.07	ppb	7.06	3600	
137	Ba	115	1	171.20	171.20	ppb	1.37	3600	
205	Tl	165	1	0.12	0.12	ppb	4.89	3600	
208	Pb	165	1	6.52	6.52	ppb	0.45	3600	
232	Th	165	1	2.95	2.95	ppb	0.59	1000	
238	U	165	1	0.53	0.53	ppb	0.91	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	448621	0.26	482681	92.9	30 - 120	
45	Sc	1	2572790	1.24	2578039	99.8	30 - 120	
72	Ge	1	1573092	0.67	1602132	98.2	30 - 120	
115	In	1	4277775	1.36	4429803	96.6	30 - 120	
165	Ho	1	8085719	0.79	8281520	97.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\220SMPL.D\220SMPL.D#
Date Acquired: Nov 8 2011 06:22 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21556-a-12-a
Misc Info:
Vial Number: 4401
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.28	0.28	ppb	18.62	3600	
51	V	72	1	37.86	37.86	ppb	0.68	3600	
52	Cr	72	1	21.00	21.00	ppb	0.52	3600	
55	Mn	72	1	680.70	680.70	ppb	1.59	18000	
59	Co	72	1	12.52	12.52	ppb	0.67	3600	
60	Ni	72	1	31.46	31.46	ppb	0.53	3600	
63	Cu	72	1	13.36	13.36	ppb	1.38	3600	
66	Zn	72	1	57.05	57.05	ppb	0.16	3600	
75	As	72	1	7.56	7.56	ppb	0.85	3600	
78	Se	72	1	1.09	1.09	ppb	27.02	3600	
95	Mo	72	1	0.47	0.47	ppb	4.09	3600	
107	Ag	115	1	0.06	0.06	ppb	13.57	3600	
111	Cd	115	1	0.40	0.40	ppb	4.71	3600	
118	Sn	115	1	0.25	0.25	ppb	8.47	3600	
121	Sb	115	1	0.08	0.08	ppb	3.66	3600	
137	Ba	115	1	157.90	157.90	ppb	1.97	3600	
205	Tl	165	1	0.11	0.11	ppb	2.82	3600	
208	Pb	165	1	14.83	14.83	ppb	1.50	3600	
232	Th	165	1	2.94	2.94	ppb	0.44	1000	
238	U	165	1	0.58	0.58	ppb	0.86	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	452000	0.68	482681	93.6	30 - 120	
45	Sc	1	2584787	0.04	2578039	100.3	30 - 120	
72	Ge	1	1568669	0.31	1602132	97.9	30 - 120	
115	In	1	4275231	1.16	4429803	96.5	30 - 120	
165	Ho	1	8148172	1.16	8281520	98.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\221SMPL.D\221SMPL.D#
Date Acquired: Nov 8 2011 06:25 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21556-a-13-a
Misc Info:
Vial Number: 4402
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.16	0.16	ppb	26.51	3600	
51 V	72	1	20.14	20.14	ppb	0.45	3600	
52 Cr	72	1	12.54	12.54	ppb	1.08	3600	
55 Mn	72	1	167.50	167.50	ppb	0.49	18000	
59 Co	72	1	6.53	6.53	ppb	1.10	3600	
60 Ni	72	1	17.18	17.18	ppb	0.59	3600	
63 Cu	72	1	8.18	8.18	ppb	0.80	3600	
66 Zn	72	1	29.30	29.30	ppb	0.82	3600	
75 As	72	1	4.03	4.03	ppb	2.95	3600	
78 Se	72	1	0.66	0.66	ppb	22.79	3600	
95 Mo	72	1	0.45	0.45	ppb	2.58	3600	
107 Ag	115	1	0.03	0.03	ppb	16.67	3600	
111 Cd	115	1	0.22	0.22	ppb	11.93	3600	
118 Sn	115	1	0.18	0.18	ppb	4.58	3600	
121 Sb	115	1	0.07	0.07	ppb	4.50	3600	
137 Ba	115	1	85.68	85.68	ppb	1.19	3600	
205 Tl	165	1	0.07	0.07	ppb	2.50	3600	
208 Pb	165	1	3.49	3.49	ppb	1.53	3600	
232 Th	165	1	2.05	2.05	ppb	1.87	1000	
238 U	165	1	0.32	0.32	ppb	0.65	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	461175	0.36	482681	95.5	30 - 120	
45 Sc	1	2639794	2.03	2578039	102.4	30 - 120	
72 Ge	1	1591827	1.24	1602132	99.4	30 - 120	
115 In	1	4327880	0.70	4429803	97.7	30 - 120	
165 Ho	1	8213106	1.21	8281520	99.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\222SMPL.D\222SMPL.D#
Date Acquired:	Nov 8 2011 06:28 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21556-a-14-a
Misc Info:	
Vial Number:	4403
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.78	0.78	ppb	21.09	3600	
51	V	72	1	84.66	84.66	ppb	0.61	3600	
52	Cr	72	1	52.38	52.38	ppb	2.00	3600	
55	Mn	72	1	962.40	962.40	ppb	0.09	18000	
59	Co	72	1	21.75	21.75	ppb	0.10	3600	
60	Ni	72	1	63.63	63.63	ppb	1.16	3600	
63	Cu	72	1	57.97	57.97	ppb	0.86	3600	
66	Zn	72	1	157.90	157.90	ppb	1.28	3600	
75	As	72	1	19.75	19.75	ppb	0.68	3600	
78	Se	72	1	2.53	2.53	ppb	22.56	3600	
95	Mo	72	1	1.68	1.68	ppb	0.51	3600	
107	Ag	115	1	0.26	0.26	ppb	3.87	3600	
111	Cd	115	1	1.02	1.02	ppb	4.39	3600	
118	Sn	115	1	0.28	0.28	ppb	4.68	3600	
121	Sb	115	1	0.10	0.10	ppb	7.33	3600	
137	Ba	115	1	458.90	458.90	ppb	1.32	3600	
205	Tl	165	1	0.24	0.24	ppb	0.78	3600	
208	Pb	165	1	16.88	16.88	ppb	0.25	3600	
232	Th	165	1	8.71	8.71	ppb	1.59	1000	
238	U	165	1	1.74	1.74	ppb	1.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	436228	0.56	482681	90.4	30 - 120	
45	Sc	1	2561851	0.30	2578039	99.4	30 - 120	
72	Ge	1	1525071	0.37	1602132	95.2	30 - 120	
115	In	1	4127649	0.84	4429803	93.2	30 - 120	
165	Ho	1	8004611	0.50	8281520	96.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\223_CCV.D\223_CCV.D#
Date Acquired:	Nov 8 2011 06:31 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.35	ppb	2.03	50	102.7	90 - 110	
51	V	72	1	50.83	ppb	0.95	50	101.7	90 - 110	
52	Cr	72	1	50.33	ppb	0.61	50	100.7	90 - 110	
55	Mn	72	1	50.58	ppb	1.66	50	101.2	90 - 110	
59	Co	72	1	51.82	ppb	1.67	50	103.6	90 - 110	
60	Ni	72	1	50.75	ppb	1.11	50	101.5	90 - 110	
63	Cu	72	1	49.69	ppb	1.93	50	99.4	90 - 110	
66	Zn	72	1	50.70	ppb	1.58	50	101.4	90 - 110	
75	As	72	1	50.39	ppb	1.26	50	100.8	90 - 110	
78	Se	72	1	51.12	ppb	1.69	50	102.2	90 - 110	
95	Mo	72	1	50.85	ppb	1.14	50	101.7	90 - 110	
107	Ag	115	1	50.67	ppb	1.13	50	101.3	90 - 110	
111	Cd	115	1	49.98	ppb	1.23	50	100.0	90 - 110	
118	Sn	115	1	48.17	ppb	1.13	50	96.3	90 - 110	
121	Sb	115	1	48.67	ppb	0.47	50	97.3	90 - 110	
137	Ba	115	1	49.67	ppb	1.44	50	99.3	90 - 110	
205	Tl	165	1	50.92	ppb	0.46	50	101.8	90 - 110	
208	Pb	165	1	49.21	ppb	0.82	50	98.4	90 - 110	
232	Th	165	1	50.01	ppb	0.78	50	100.0	90 - 110	
238	U	165	1	50.31	ppb	0.27	50	100.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	453938	0.32	482681	94.0	30 - 120	
45	Sc	1	2545440	1.68	2578039	98.7	30 - 120	
72	Ge	1	1579979	1.29	1602132	98.6	30 - 120	
115	In	1	4330416	0.87	4429803	97.8	30 - 120	
165	Ho	1	8169609	0.67	8281520	98.6	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\224_CCB.D\224_CCB.D#
Date Acquired:	Nov 8 2011 06:34 am
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.004	ppb	209.83	1.00	
51	V	72	1	0.009	ppb	216.91	1.00	
52	Cr	72	1	0.017	ppb	46.10	1.00	
55	Mn	72	1	-0.013	ppb	9.80	1.00	
59	Co	72	1	0.006	ppb	36.80	1.00	
60	Ni	72	1	0.007	ppb	28.04	1.00	
63	Cu	72	1	0.009	ppb	83.06	1.00	
66	Zn	72	1	-0.023	ppb	31.93	1.00	
75	As	72	1	0.004	ppb	79.04	1.00	
78	Se	72	1	0.409	ppb	57.43	1.00	
95	Mo	72	1	-0.002	ppb	277.26	1.00	
107	Ag	115	1	0.006	ppb	26.95	1.00	
111	Cd	115	1	0.006	ppb	79.92	1.00	
118	Sn	115	1	0.033	ppb	21.43	1.00	
121	Sb	115	1	0.021	ppb	10.25	1.00	
137	Ba	115	1	0.017	ppb	10.01	1.00	
205	Tl	165	1	0.021	ppb	19.97	1.00	
208	Pb	165	1	0.007	ppb	6.74	1.00	
232	Th	165	1	0.025	ppb	4.77	1.00	
238	U	165	1	0.009	ppb	11.59	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454942	0.51	482681	94.3	30 - 120	
45	Sc	1	2577971	1.91	2578039	100.0	30 - 120	
72	Ge	1	1580947	0.85	1602132	98.7	30 - 120	
115	In	1	4380001	1.07	4429803	98.9	30 - 120	
165	Ho	1	8125435	1.67	8281520	98.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\225WASH.D\225WASH.D#
Date Acquired: Nov 8 2011 06:37 am
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 04:56 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.133	ppb	16.21	1.30	
51	V	72	1	4.961	ppb	0.45	6.50	
52	Cr	72	1	2.170	ppb	1.87	2.60	
55	Mn	72	1	1.159	ppb	1.65	1.30	
59	Co	72	1	1.094	ppb	1.13	1.30	
60	Ni	72	1	2.243	ppb	1.06	2.60	
63	Cu	72	1	2.238	ppb	1.63	2.60	
66	Zn	72	1	10.650	ppb	1.49	13.00	
75	As	72	1	5.095	ppb	1.81	6.50	
78	Se	72	1	5.023	ppb	16.24	6.50	
95	Mo	72	1	2.143	ppb	2.07	2.60	
107	Ag	115	1	4.995	ppb	0.79	6.50	
111	Cd	115	1	1.044	ppb	1.65	1.30	
118	Sn	115	1	9.798	ppb	1.67	13.00	
121	Sb	115	1	2.029	ppb	0.66	2.60	
137	Ba	115	1	1.074	ppb	1.13	1.30	
205	Tl	165	1	1.084	ppb	1.12	1.30	
208	Pb	165	1	1.081	ppb	0.97	1.30	
232	Th	165	1	2.064	ppb	1.57	2.60	
238	U	165	1	1.086	ppb	1.24	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	453882	0.22	482681	94.0	30 - 120	
45	Sc	1	2560228	0.83	2578039	99.3	30 - 120	
72	Ge	1	1586573	1.55	1602132	99.0	30 - 120	
115	In	1	4355020	1.03	4429803	98.3	30 - 120	
165	Ho	1	8115794	1.31	8281520	98.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\226_BLK.D\226_BLK.D#
Date Acquired: Nov 8 2011 06:40 am
Operator: LRD
Sample Name: mb 280-93511/1-a
Misc Info: BLANK 93511 DOD4/6020A HOT Sb
Vial Number: 4404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 04:56 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.004 ppb	349.17	2.00	
51 V	72	1	-0.024 ppb	175.52	2.00	
52 Cr	72	1	0.601 ppb	6.52	2.00	
55 Mn	72	1	0.611 ppb	2.19	2.00	
59 Co	72	1	0.013 ppb	29.83	2.00	
60 Ni	72	1	0.247 ppb	3.86	2.00	
63 Cu	72	1	0.484 ppb	3.66	2.00	
66 Zn	72	1	1.049 ppb	6.69	2.00	
75 As	72	1	0.376 ppb	5.47	2.00	
78 Se	72	1	0.387 ppb	38.02	2.00	
95 Mo	72	1	0.005 ppb	157.94	2.00	
107 Ag	115	1	0.047 ppb	10.64	2.00	
111 Cd	115	1	0.024 ppb	35.60	2.00	
118 Sn	115	1	0.298 ppb	3.53	2.00	
121 Sb	115	1	0.097 ppb	6.92	2.00	
137 Ba	115	1	0.328 ppb	1.14	2.00	
205 Tl	165	1	0.115 ppb	35.00	2.00	
208 Pb	165	1	0.154 ppb	4.95	2.00	
232 Th	165	1	0.011 ppb	6.78	2.00	
238 U	165	1	0.010 ppb	15.41	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	460426	4.62	482681	95.4	30 - 120	
45 Sc	1	2221332	1.77	2578039	86.2	30 - 120	
72 Ge	1	1379385	1.95	1602132	86.1	30 - 120	
115 In	1	3921708	1.02	4429803	88.5	30 - 120	
165 Ho	1	7514850	1.28	8281520	90.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\227_LCS.D\227_LCS.D#
Date Acquired:	Nov 8 2011 06:43 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-93511/2-a
Misc Info:	LCS
Vial Number:	4405
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	42.44	3.24	40	106.1	80 - 120	
51	V	72	1	40.47	0.69	40	101.2	80 - 120	
52	Cr	72	1	41.84	0.51	40	104.6	80 - 120	
55	Mn	72	1	41.42	0.53	40	103.6	80 - 120	
59	Co	72	1	42.74	1.29	40	106.9	80 - 120	
60	Ni	72	1	42.69	0.72	40	106.7	80 - 120	
63	Cu	72	1	42.80	0.56	40	107.0	80 - 120	
66	Zn	72	1	43.42	0.64	40	108.6	80 - 120	
75	As	72	1	44.26	0.59	40	110.7	80 - 120	
78	Se	72	1	46.96	2.42	40	117.4	80 - 120	
95	Mo	72	1	44.34	1.25	40	110.9	80 - 120	
107	Ag	115	1	41.38	2.09	40	103.5	80 - 120	
111	Cd	115	1	41.67	0.79	40	104.2	80 - 120	
118	Sn	115	1	40.57	0.59	40	101.4	80 - 120	
121	Sb	115	1	40.38	1.18	40	101.0	80 - 120	
137	Ba	115	1	41.87	1.79	40	104.7	80 - 120	
205	Tl	165	1	44.48	1.18	40	111.2	80 - 120	
208	Pb	165	1	43.95	0.81	40	109.9	80 - 120	
232	Th	165	1	45.05	1.30	40	112.6	80 - 120	
238	U	165	1	47.24	1.07	40	118.1	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	403592	1.55	482681	83.6	30 - 120	
45	Sc	1	2016507	0.52	2578039	78.2	30 - 120	
72	Ge	1	1264514	1.08	1602132	78.9	30 - 120	
115	In	1	3751996	1.00	4429803	84.7	30 - 120	
165	Ho	1	7190291	0.81	8281520	86.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\228SMPL.D\228SMPL.D#
Date Acquired:	Nov 8 2011 06:46 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-2-b
Misc Info:	
Vial Number:	4406
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.72	1.72	ppb	16.32	3600	
51	V	72	1	113.40	113.40	ppb	1.59	3600	
52	Cr	72	1	34.68	34.68	ppb	0.08	3600	
55	Mn	72	1	853.70	853.70	ppb	0.75	18000	
59	Co	72	1	18.09	18.09	ppb	0.75	3600	
60	Ni	72	1	26.93	26.93	ppb	0.40	3600	
63	Cu	72	1	37.52	37.52	ppb	0.29	3600	
66	Zn	72	1	113.60	113.60	ppb	0.52	3600	
75	As	72	1	11.31	11.31	ppb	1.43	3600	
78	Se	72	1	2.85	2.85	ppb	1.40	3600	
95	Mo	72	1	1.37	1.37	ppb	2.54	3600	
107	Ag	115	1	0.16	0.16	ppb	5.62	3600	
111	Cd	115	1	0.55	0.55	ppb	10.79	3600	
118	Sn	115	1	1.83	1.83	ppb	1.32	3600	
121	Sb	115	1	0.71	0.71	ppb	1.02	3600	
137	Ba	115	1	1,090.00	1090.00	ppb	1.74	3600	
205	Tl	165	1	0.57	0.57	ppb	1.26	3600	
208	Pb	165	1	25.30	25.30	ppb	1.41	3600	
232	Th	165	1	16.42	16.42	ppb	2.38	1000	
238	U	165	1	2.95	2.95	ppb	2.33	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	353628	0.88	482681	73.3	30 - 120	
45	Sc	1	1910752	1.11	2578039	74.1	30 - 120	
72	Ge	1	1169142	0.46	1602132	73.0	30 - 120	
115	In	1	3426948	0.79	4429803	77.4	30 - 120	
165	Ho	1	6879015	0.91	8281520	83.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\229SMPL.D\229SMPL.D#
Date Acquired:	Nov 8 2011 06:49 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-3-d
Misc Info:	
Vial Number:	4407
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.66	2.66	ppb	7.11	3600	
51	V	72	1	81.89	81.89	ppb	8.42	3600	
52	Cr	72	1	23.13	23.13	ppb	8.58	3600	
55	Mn	72	1	242.30	242.30	ppb	8.72	18000	
59	Co	72	1	32.65	32.65	ppb	9.26	3600	
60	Ni	72	1	29.30	29.30	ppb	9.26	3600	
63	Cu	72	1	82.48	82.48	ppb	8.92	3600	
66	Zn	72	1	200.90	200.90	ppb	8.58	3600	
75	As	72	1	39.02	39.02	ppb	9.12	3600	
78	Se	72	1	3.19	3.19	ppb	14.30	3600	
95	Mo	72	1	2.43	2.43	ppb	9.42	3600	
107	Ag	115	1	0.13	0.13	ppb	16.80	3600	
111	Cd	115	1	0.95	0.95	ppb	20.67	3600	
118	Sn	115	1	2.17	2.17	ppb	10.91	3600	
121	Sb	115	1	1.30	1.30	ppb	9.00	3600	
137	Ba	115	1	93.56	93.56	ppb	10.15	3600	
205	Tl	165	1	1.19	1.19	ppb	9.85	3600	
208	Pb	165	1	31.18	31.18	ppb	8.10	3600	
232	Th	165	1	21.03	21.03	ppb	7.03	1000	
238	U	165	1	5.36	5.36	ppb	7.94	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	351977	5.58	482681	72.9	30 - 120	
45	Sc	1	1938303	7.42	2578039	75.2	30 - 120	
72	Ge	1	1173249	7.74	1602132	73.2	30 - 120	
115	In	1	3362323	8.97	4429803	75.9	30 - 120	
165	Ho	1	6724531	7.33	8281520	81.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\230SMPL.D\230SMPL.D#
Date Acquired: Nov 8 2011 06:52 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21992-a-4-b
Misc Info:
Vial Number: 4408
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.05	2.05	ppb	11.42	3600	
51	V	72	1	71.41	71.41	ppb	0.69	3600	
52	Cr	72	1	20.55	20.55	ppb	1.00	3600	
55	Mn	72	1	298.60	298.60	ppb	0.56	18000	
59	Co	72	1	43.10	43.10	ppb	1.50	3600	
60	Ni	72	1	32.68	32.68	ppb	0.57	3600	
63	Cu	72	1	59.33	59.33	ppb	0.50	3600	
66	Zn	72	1	191.60	191.60	ppb	0.72	3600	
75	As	72	1	42.79	42.79	ppb	0.59	3600	
78	Se	72	1	2.27	2.27	ppb	17.06	3600	
95	Mo	72	1	2.46	2.46	ppb	1.06	3600	
107	Ag	115	1	0.10	0.10	ppb	1.57	3600	
111	Cd	115	1	0.85	0.85	ppb	9.62	3600	
118	Sn	115	1	1.87	1.87	ppb	1.33	3600	
121	Sb	115	1	1.03	1.03	ppb	3.83	3600	
137	Ba	115	1	80.80	80.80	ppb	1.12	3600	
205	Tl	165	1	1.38	1.38	ppb	1.00	3600	
208	Pb	165	1	24.96	24.96	ppb	1.38	3600	
232	Th	165	1	17.14	17.14	ppb	1.81	1000	
238	U	165	1	4.52	4.52	ppb	1.69	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	358814	0.82	482681	74.3	30 - 120	
45	Sc	1	1976017	0.77	2578039	76.6	30 - 120	
72	Ge	1	1219803	0.53	1602132	76.1	30 - 120	
115	In	1	3494216	1.02	4429803	78.9	30 - 120	
165	Ho	1	7027862	1.56	8281520	84.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\231SMPL.D\231SMPL.D#
Date Acquired:	Nov 8 2011 06:55 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-7-b
Misc Info:	
Vial Number:	4409
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.93	1.93	ppb	11.71	3600	
51	V	72	1	91.50	91.50	ppb	0.66	3600	
52	Cr	72	1	35.41	35.41	ppb	1.77	3600	
55	Mn	72	1	695.90	695.90	ppb	1.91	18000	
59	Co	72	1	17.18	17.18	ppb	1.71	3600	
60	Ni	72	1	30.54	30.54	ppb	1.66	3600	
63	Cu	72	1	35.24	35.24	ppb	1.11	3600	
66	Zn	72	1	117.60	117.60	ppb	1.26	3600	
75	As	72	1	13.17	13.17	ppb	1.47	3600	
78	Se	72	1	2.22	2.22	ppb	18.08	3600	
95	Mo	72	1	1.57	1.57	ppb	1.58	3600	
107	Ag	115	1	0.20	0.20	ppb	3.78	3600	
111	Cd	115	1	0.64	0.64	ppb	2.06	3600	
118	Sn	115	1	1.79	1.79	ppb	5.57	3600	
121	Sb	115	1	0.77	0.77	ppb	1.87	3600	
137	Ba	115	1	441.80	441.80	ppb	2.61	3600	
205	Tl	165	1	0.62	0.62	ppb	1.08	3600	
208	Pb	165	1	26.87	26.87	ppb	0.27	3600	
232	Th	165	1	15.42	15.42	ppb	1.20	1000	
238	U	165	1	2.58	2.58	ppb	1.01	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	325391	0.62	482681	67.4	30 - 120	
45	Sc	1	1756038	1.01	2578039	68.1	30 - 120	
72	Ge	1	1092629	1.09	1602132	68.2	30 - 120	
115	In	1	3250383	0.22	4429803	73.4	30 - 120	
165	Ho	1	6626984	0.56	8281520	80.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\232SMPL.D\232SMPL.D#
Date Acquired:	Nov 8 2011 06:58 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-8-c
Misc Info:	
Vial Number:	4410
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.17	1.17	ppb	10.91	3600	
51	V	72	1	56.37	56.37	ppb	0.20	3600	
52	Cr	72	1	8.78	8.78	ppb	1.62	3600	
55	Mn	72	1	420.10	420.10	ppb	0.58	18000	
59	Co	72	1	27.75	27.75	ppb	1.20	3600	
60	Ni	72	1	23.48	23.48	ppb	1.01	3600	
63	Cu	72	1	14.57	14.57	ppb	0.86	3600	
66	Zn	72	1	74.89	74.89	ppb	0.28	3600	
75	As	72	1	16.56	16.56	ppb	0.98	3600	
78	Se	72	1	0.95	0.95	ppb	18.29	3600	
95	Mo	72	1	1.54	1.54	ppb	3.64	3600	
107	Ag	115	1	0.06	0.06	ppb	1.28	3600	
111	Cd	115	1	0.32	0.32	ppb	7.15	3600	
118	Sn	115	1	0.69	0.69	ppb	1.98	3600	
121	Sb	115	1	0.25	0.25	ppb	2.44	3600	
137	Ba	115	1	401.80	401.80	ppb	0.65	3600	
205	Tl	165	1	0.18	0.18	ppb	1.82	3600	
208	Pb	165	1	8.14	8.14	ppb	0.98	3600	
232	Th	165	1	7.13	7.13	ppb	0.88	1000	
238	U	165	1	2.77	2.77	ppb	1.24	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	354327	0.92	482681	73.4	30 - 120	
45	Sc	1	1892774	0.60	2578039	73.4	30 - 120	
72	Ge	1	1213502	0.40	1602132	75.7	30 - 120	
115	In	1	3490223	0.91	4429803	78.8	30 - 120	
165	Ho	1	6921951	1.23	8281520	83.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\233SMPL.D\233SMPL.D#
Date Acquired:	Nov 8 2011 07:00 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-a-9-b
Misc Info:	
Vial Number:	4411
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.92	1.92	ppb	16.41	3600	
51	V	72	1	90.22	90.22	ppb	1.47	3600	
52	Cr	72	1	36.89	36.89	ppb	0.57	3600	
55	Mn	72	1	996.10	996.10	ppb	0.18	18000	
59	Co	72	1	18.75	18.75	ppb	1.18	3600	
60	Ni	72	1	30.66	30.66	ppb	0.81	3600	
63	Cu	72	1	35.65	35.65	ppb	0.87	3600	
66	Zn	72	1	125.60	125.60	ppb	0.90	3600	
75	As	72	1	12.25	12.25	ppb	0.60	3600	
78	Se	72	1	2.45	2.45	ppb	14.14	3600	
95	Mo	72	1	1.68	1.68	ppb	6.47	3600	
107	Ag	115	1	0.19	0.19	ppb	5.58	3600	
111	Cd	115	1	0.66	0.66	ppb	3.17	3600	
118	Sn	115	1	1.89	1.89	ppb	1.68	3600	
121	Sb	115	1	0.75	0.75	ppb	0.79	3600	
137	Ba	115	1	433.70	433.70	ppb	1.47	3600	
205	Tl	165	1	0.65	0.65	ppb	1.55	3600	
208	Pb	165	1	29.52	29.52	ppb	1.45	3600	
232	Th	165	1	13.25	13.25	ppb	1.89	1000	
238	U	165	1	2.52	2.52	ppb	0.99	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	338984	1.16	482681	70.2	30 - 120	
45	Sc	1	1879003	1.09	2578039	72.9	30 - 120	
72	Ge	1	1169139	0.69	1602132	73.0	30 - 120	
115	In	1	3367168	0.88	4429803	76.0	30 - 120	
165	Ho	1	6833838	1.30	8281520	82.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\234SMPL.D\234SMPL.D#
Date Acquired:	Nov 8 2011 07:03 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21992-b-10-b
Misc Info:	
Vial Number:	4412
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.62	1.62	ppb	5.82	3600	
51	V	72	1	76.85	76.85	ppb	1.35	3600	
52	Cr	72	1	34.51	34.51	ppb	1.59	3600	
55	Mn	72	1	1,455.00	1455.00	ppb	0.90	18000	
59	Co	72	1	22.50	22.50	ppb	1.30	3600	
60	Ni	72	1	28.92	28.92	ppb	1.51	3600	
63	Cu	72	1	50.19	50.19	ppb	1.59	3600	
66	Zn	72	1	184.20	184.20	ppb	1.34	3600	
75	As	72	1	11.87	11.87	ppb	1.08	3600	
78	Se	72	1	1.53	1.53	ppb	21.89	3600	
95	Mo	72	1	1.64	1.64	ppb	2.37	3600	
107	Ag	115	1	0.08	0.08	ppb	5.24	3600	
111	Cd	115	1	0.62	0.62	ppb	1.24	3600	
118	Sn	115	1	2.30	2.30	ppb	2.66	3600	
121	Sb	115	1	0.50	0.50	ppb	3.13	3600	
137	Ba	115	1	107.00	107.00	ppb	1.70	3600	
205	Tl	165	1	0.73	0.73	ppb	0.65	3600	
208	Pb	165	1	18.36	18.36	ppb	0.60	3600	
232	Th	165	1	11.33	11.33	ppb	1.05	1000	
238	U	165	1	4.85	4.85	ppb	1.08	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	341863	0.27	482681	70.8	30 - 120	
45	Sc	1	1906711	0.74	2578039	74.0	30 - 120	
72	Ge	1	1169767	1.06	1602132	73.0	30 - 120	
115	In	1	3382123	1.18	4429803	76.3	30 - 120	
165	Ho	1	6794025	0.57	8281520	82.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\235SMPL.D\235SMPL.D#
Date Acquired: Nov 8 2011 07:06 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22016-a-1-b
Misc Info:
Vial Number: 4501
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.03	2.03	ppb	4.89	3600	
51	V	72	1	111.20	111.20	ppb	0.16	3600	
52	Cr	72	1	37.18	37.18	ppb	0.17	3600	
55	Mn	72	1	861.30	861.30	ppb	0.73	18000	
59	Co	72	1	19.99	19.99	ppb	1.68	3600	
60	Ni	72	1	30.83	30.83	ppb	1.29	3600	
63	Cu	72	1	43.08	43.08	ppb	1.02	3600	
66	Zn	72	1	141.10	141.10	ppb	0.26	3600	
75	As	72	1	13.27	13.27	ppb	1.38	3600	
78	Se	72	1	3.18	3.18	ppb	15.22	3600	
95	Mo	72	1	1.60	1.60	ppb	3.04	3600	
107	Ag	115	1	0.19	0.19	ppb	3.30	3600	
111	Cd	115	1	0.87	0.87	ppb	1.99	3600	
118	Sn	115	1	1.90	1.90	ppb	1.22	3600	
121	Sb	115	1	0.87	0.87	ppb	2.61	3600	
137	Ba	115	1	543.20	543.20	ppb	2.14	3600	
205	Tl	165	1	0.64	0.64	ppb	1.05	3600	
208	Pb	165	1	41.22	41.22	ppb	1.52	3600	
232	Th	165	1	11.86	11.86	ppb	1.38	1000	
238	U	165	1	2.92	2.92	ppb	0.41	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	342553	0.41	482681	71.0	30 - 120	
45	Sc	1	1848771	1.27	2578039	71.7	30 - 120	
72	Ge	1	1156410	1.00	1602132	72.2	30 - 120	
115	In	1	3350157	0.78	4429803	75.6	30 - 120	
165	Ho	1	6800263	0.55	8281520	82.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\236_CCV.D\236_CCV.D#
Date Acquired: Nov 8 2011 07:09 am
Operator: LRD
Sample Name: CCV-1116521
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 04:56 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.28	ppb	2.18	50	102.6	90 - 110	
51	V	72	1	46.58	ppb	0.84	50	93.2	90 - 110	
52	Cr	72	1	47.26	ppb	0.86	50	94.5	90 - 110	
55	Mn	72	1	47.80	ppb	1.51	50	95.6	90 - 110	
59	Co	72	1	50.33	ppb	0.44	50	100.7	90 - 110	
60	Ni	72	1	49.22	ppb	0.84	50	98.4	90 - 110	
63	Cu	72	1	48.33	ppb	1.05	50	96.7	90 - 110	
66	Zn	72	1	50.23	ppb	0.46	50	100.5	90 - 110	
75	As	72	1	50.87	ppb	1.37	50	101.7	90 - 110	
78	Se	72	1	50.67	ppb	3.00	50	101.3	90 - 110	
95	Mo	72	1	52.32	ppb	1.40	50	104.6	90 - 110	
107	Ag	115	1	48.20	ppb	1.20	50	96.4	90 - 110	
111	Cd	115	1	48.64	ppb	0.55	50	97.3	90 - 110	
118	Sn	115	1	47.79	ppb	1.04	50	95.6	90 - 110	
121	Sb	115	1	48.25	ppb	0.61	50	96.5	90 - 110	
137	Ba	115	1	49.91	ppb	1.11	50	99.8	90 - 110	
205	Tl	165	1	53.44	ppb	1.42	50	106.9	90 - 110	
208	Pb	165	1	51.59	ppb	0.77	50	103.2	90 - 110	
232	Th	165	1	53.98	ppb	0.42	50	108.0	90 - 110	
238	U	165	1	55.05	ppb	0.63	50	110.1	90 - 110	Fail

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	301861	0.34	482681	62.5	30 - 120	
45	Sc	1	1776702	1.05	2578039	68.9	30 - 120	
72	Ge	1	1158787	0.83	1602132	72.3	30 - 120	
115	In	1	3498543	0.47	4429803	79.0	30 - 120	
165	Ho	1	6648110	0.34	8281520	80.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\237_CCB.D\237_CCB.D#
Date Acquired:	Nov 8 2011 07:12 am
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.013	ppb	0.00	1.00	
51	V	72	1	0.028	ppb	58.31	1.00	
52	Cr	72	1	0.008	ppb	202.38	1.00	
55	Mn	72	1	0.039	ppb	23.64	1.00	
59	Co	72	1	0.006	ppb	38.51	1.00	
60	Ni	72	1	-0.002	ppb	425.77	1.00	
63	Cu	72	1	0.009	ppb	95.83	1.00	
66	Zn	72	1	-0.008	ppb	71.42	1.00	
75	As	72	1	0.019	ppb	65.77	1.00	
78	Se	72	1	-0.078	ppb	71.99	1.00	
95	Mo	72	1	-0.003	ppb	59.96	1.00	
107	Ag	115	1	0.011	ppb	24.15	1.00	
111	Cd	115	1	0.006	ppb	60.14	1.00	
118	Sn	115	1	0.038	ppb	9.92	1.00	
121	Sb	115	1	0.023	ppb	6.65	1.00	
137	Ba	115	1	0.019	ppb	27.50	1.00	
205	Tl	165	1	0.026	ppb	9.79	1.00	
208	Pb	165	1	0.013	ppb	2.76	1.00	
232	Th	165	1	0.028	ppb	12.96	1.00	
238	U	165	1	0.011	ppb	9.39	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	301970	0.46	482681	62.6	30 - 120	
45	Sc	1	1810903	1.53	2578039	70.2	30 - 120	
72	Ge	1	1185051	2.28	1602132	74.0	30 - 120	
115	In	1	3504177	1.13	4429803	79.1	30 - 120	
165	Ho	1	6740666	0.55	8281520	81.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\238WASH.D\238WASH.D#
Date Acquired: Nov 8 2011 07:15 am
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 04:56 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.095 ppb	15.55	1.30	
51 V	72	1	4.695 ppb	0.78	6.50	
52 Cr	72	1	2.091 ppb	1.00	2.60	
55 Mn	72	1	1.160 ppb	0.72	1.30	
59 Co	72	1	1.057 ppb	1.29	1.30	
60 Ni	72	1	2.244 ppb	4.16	2.60	
63 Cu	72	1	2.176 ppb	1.98	2.60	
66 Zn	72	1	10.480 ppb	1.01	13.00	
75 As	72	1	5.077 ppb	0.62	6.50	
78 Se	72	1	5.198 ppb	14.58	6.50	
95 Mo	72	1	2.205 ppb	3.33	2.60	
107 Ag	115	1	4.911 ppb	2.06	6.50	
111 Cd	115	1	1.051 ppb	8.92	1.30	
118 Sn	115	1	9.729 ppb	1.15	13.00	
121 Sb	115	1	2.037 ppb	0.62	2.60	
137 Ba	115	1	1.136 ppb	2.30	1.30	
205 Tl	165	1	1.139 ppb	0.68	1.30	
208 Pb	165	1	1.121 ppb	0.55	1.30	
232 Th	165	1	2.190 ppb	1.47	2.60	
238 U	165	1	1.150 ppb	0.70	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	305078	1.45	482681	63.2	30 - 120	
45 Sc	1	1846825	0.74	2578039	71.6	30 - 120	
72 Ge	1	1196942	0.93	1602132	74.7	30 - 120	
115 In	1	3499374	1.22	4429803	79.0	30 - 120	
165 Ho	1	6812834	1.19	8281520	82.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\239SMPL.D\239SMPL.D#
Date Acquired: Nov 8 2011 07:18 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22016-a-2-b
Misc Info:
Vial Number: 4502
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.00	1.00	ppb	13.04	3600	
51	V	72	1	493.90	493.90	ppb	1.74	3600	
52	Cr	72	1	109.60	109.60	ppb	1.67	3600	
55	Mn	72	1	830.70	830.70	ppb	1.81	18000	
59	Co	72	1	28.29	28.29	ppb	0.83	3600	
60	Ni	72	1	25.26	25.26	ppb	1.30	3600	
63	Cu	72	1	24.81	24.81	ppb	0.72	3600	
66	Zn	72	1	217.60	217.60	ppb	0.70	3600	
75	As	72	1	3.44	3.44	ppb	1.08	3600	
78	Se	72	1	1.66	1.66	ppb	25.34	3600	
95	Mo	72	1	2.01	2.01	ppb	3.21	3600	
107	Ag	115	1	0.07	0.07	ppb	11.12	3600	
111	Cd	115	1	0.49	0.49	ppb	8.84	3600	
118	Sn	115	1	1.80	1.80	ppb	0.90	3600	
121	Sb	115	1	0.23	0.23	ppb	4.99	3600	
137	Ba	115	1	840.00	840.00	ppb	0.86	3600	
205	Tl	165	1	0.16	0.16	ppb	4.71	3600	
208	Pb	165	1	9.64	9.64	ppb	0.19	3600	
232	Th	165	1	8.48	8.48	ppb	0.78	1000	
238	U	165	1	8.11	8.11	ppb	0.62	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	355730	0.84	482681	73.7	30 - 120	
45	Sc	1	2051955	0.50	2578039	79.6	30 - 120	
72	Ge	1	1196273	0.66	1602132	74.7	30 - 120	
115	In	1	3390807	0.56	4429803	76.5	30 - 120	
165	Ho	1	6733582	0.33	8281520	81.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\240AREF.D\240AREF.D#
Date Acquired:	Nov 8 2011 07:21 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22016-a-3-d
Misc Info:	
Vial Number:	4503
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.08	1.08	ppb	16.45	3600	
51	V	72	1	253.10	253.10	ppb	0.89	3600	
52	Cr	72	1	57.35	57.35	ppb	0.95	3600	
55	Mn	72	1	596.90	596.90	ppb	0.83	18000	
59	Co	72	1	20.29	20.29	ppb	0.67	3600	
60	Ni	72	1	22.06	22.06	ppb	1.37	3600	
63	Cu	72	1	24.11	24.11	ppb	0.65	3600	
66	Zn	72	1	147.90	147.90	ppb	0.65	3600	
75	As	72	1	2.81	2.81	ppb	1.18	3600	
78	Se	72	1	1.86	1.86	ppb	4.58	3600	
95	Mo	72	1	2.06	2.06	ppb	3.99	3600	
107	Ag	115	1	0.06	0.06	ppb	14.85	3600	
111	Cd	115	1	0.49	0.49	ppb	1.54	3600	
118	Sn	115	1	1.54	1.54	ppb	2.25	3600	
121	Sb	115	1	0.20	0.20	ppb	6.18	3600	
137	Ba	115	1	347.70	347.70	ppb	0.39	3600	
205	Tl	165	1	0.27	0.27	ppb	2.25	3600	
208	Pb	165	1	9.89	9.89	ppb	0.41	3600	
232	Th	165	1	8.38	8.38	ppb	0.18	1000	
238	U	165	1	7.51	7.51	ppb	0.65	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	348325	0.35	482681	72.2	30 - 120	
45	Sc	1	1936211	0.12	2578039	75.1	30 - 120	
72	Ge	1	1170371	0.56	1602132	73.1	30 - 120	
115	In	1	3355641	0.25	4429803	75.8	30 - 120	
165	Ho	1	6800548	0.38	8281520	82.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\241SDIL.D\241SDIL.D#
Date Acquired:	Nov 8 2011 07:24 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22016-a-3-d SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	4504
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110711.B\240AREF.D\240AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.19	ppb	37.31	0.22	88.3	90 - 110	
51 V	72	1	50.67	ppb	1.18	50.62	100.1	90 - 110	
52 Cr	72	1	11.12	ppb	0.98	11.47	96.9	90 - 110	
55 Mn	72	1	125.00	ppb	1.06	119.38	104.7	90 - 110	
59 Co	72	1	4.11	ppb	1.75	4.06	101.4	90 - 110	
60 Ni	72	1	4.58	ppb	3.07	4.41	103.8	90 - 110	
63 Cu	72	1	4.93	ppb	2.56	4.82	102.2	90 - 110	
66 Zn	72	1	29.70	ppb	1.36	29.58	100.4	90 - 110	
75 As	72	1	0.58	ppb	3.22	0.56	103.5	90 - 110	
78 Se	72	1	0.35	ppb	119.15	0.37	93.8	90 - 110	
95 Mo	72	1	0.41	ppb	4.41	0.41	99.0	90 - 110	
107 Ag	115	1	0.01	ppb	40.95	0.01	90.6	90 - 110	
111 Cd	115	1	0.09	ppb	30.93	0.10	91.9	90 - 110	
118 Sn	115	1	0.33	ppb	4.47	0.31	105.9	90 - 110	
121 Sb	115	1	0.03	ppb	5.39	0.04	81.6	90 - 110	
137 Ba	115	1	65.68	ppb	1.95	69.54	94.4	90 - 110	
205 Tl	165	1	0.05	ppb	2.79	0.05	102.0	90 - 110	
208 Pb	165	1	1.99	ppb	1.43	1.98	100.8	90 - 110	
232 Th	165	1	1.62	ppb	0.63	1.68	96.4	90 - 110	
238 U	165	1	1.47	ppb	0.10	1.50	98.1	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	329857	0.55	482681	68.3	30 - 120	
45 Sc	1	1843567	0.67	2578039	71.5	30 - 120	
72 Ge	1	1180959	1.64	1602132	73.7	30 - 120	
115 In	1	3494218	0.59	4429803	78.9	30 - 120	
165 Ho	1	6810897	1.20	8281520	82.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\242PDS.D\242PDS.D#	
Date Acquired:	Nov 8 2011 07:27 am	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	LRD	**ISTD: Pass**
Sample Name:	280-22016-a-3-d PDS	
Misc Info:	POST DIGESTION SPIKE	
Vial Number:	4505	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 08 2011 04:56 am	
Sample Type:	PDS	
Prep Dil. Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	216.30	1.08	ppb	0.97	200	107.6	75 - 125	
51 V	72	1	432.90	253.10	ppb	0.29	200	95.5	75 - 125	
52 Cr	72	1	245.50	57.35	ppb	0.36	200	95.4	75 - 125	
55 Mn	72	1	768.70	596.90	ppb	1.27	200	96.5	75 - 125	
59 Co	72	1	211.90	20.29	ppb	0.48	200	96.2	75 - 125	
60 Ni	72	1	224.90	22.06	ppb	0.83	200	101.3	75 - 125	
63 Cu	72	1	219.90	24.11	ppb	0.46	200	98.1	75 - 125	
66 Zn	72	1	340.30	147.90	ppb	0.41	200	97.8	75 - 125	
75 As	72	1	209.20	2.81	ppb	0.31	200	103.2	75 - 125	
78 Se	72	1	215.20	1.86	ppb	1.50	200	106.6	75 - 125	
95 Mo	72	1	220.00	2.06	ppb	1.19	200	108.9	75 - 125	
107 Ag	115	1	50.85	0.06	ppb	1.32	50	101.6	75 - 125	
111 Cd	115	1	208.60	0.49	ppb	2.08	200	104.0	75 - 125	
118 Sn	115	1	207.80	1.54	ppb	3.24	200	103.1	75 - 125	
121 Sb	115	1	210.00	0.20	ppb	1.44	200	104.9	75 - 125	
137 Ba	115	1	561.40	347.70	ppb	2.45	200	102.5	75 - 125	
205 Tl	165	1	204.90	0.27	ppb	1.33	200	102.3	75 - 125	
208 Pb	165	1	213.40	9.89	ppb	0.64	200	101.7	75 - 125	
232 Th	165	1	8.22	8.38	ppb	0.55	200	3.9	75 - 125	
238 U	165	1	226.10	7.51	ppb	1.19	200	109.0	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	345770	0.73	482681	71.6	30 - 120	
45 Sc	1	1929250	0.79	2578039	74.8	30 - 120	
72 Ge	1	1165138	0.25	1602132	72.7	30 - 120	
115 In	1	3297046	1.78	4429803	74.4	30 - 120	
165 Ho	1	6693943	0.93	8281520	80.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\243_MS.D\243_MS.D#
Date Acquired: Nov 8 2011 07:30 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22016-a-3-e ms
Misc Info: MATRIX SPIKE
Vial Number: 4506
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	44.67	1.08	ppb	2.45	40	108.7	50 - 150	
51	V	72	1	313.70	253.10	ppb	2.52	40	107.0	50 - 150	
52	Cr	72	1	103.50	57.35	ppb	1.67	40	106.3	50 - 150	
55	Mn	72	1	675.60	596.90	ppb	2.10	40	106.1	50 - 150	
59	Co	72	1	63.22	20.29	ppb	1.35	40	104.9	50 - 150	
60	Ni	72	1	63.44	22.06	ppb	1.48	40	102.2	50 - 150	
63	Cu	72	1	63.97	24.11	ppb	1.97	40	99.8	50 - 150	
66	Zn	72	1	191.20	147.90	ppb	1.59	40	101.8	50 - 150	
75	As	72	1	44.53	2.81	ppb	1.14	40	104.0	50 - 150	
78	Se	72	1	44.24	1.86	ppb	4.67	40	105.7	50 - 150	
95	Mo	72	1	44.85	2.06	ppb	1.14	40	106.6	50 - 150	
107	Ag	115	1	40.02	0.06	ppb	1.06	40	99.9	50 - 150	
111	Cd	115	1	41.33	0.49	ppb	0.82	40	102.1	50 - 150	
118	Sn	115	1	41.75	1.54	ppb	0.90	40	100.5	50 - 150	
121	Sb	115	1	30.26	0.20	ppb	1.66	40	75.3	50 - 150	
137	Ba	115	1	432.40	347.70	ppb	1.88	40	111.5	50 - 150	
205	Tl	165	1	42.99	0.27	ppb	2.71	40	106.8	50 - 150	
208	Pb	165	1	52.05	9.89	ppb	0.65	40	104.3	50 - 150	
232	Th	165	1	57.79	8.38	ppb	1.11	40	119.5	50 - 150	
238	U	165	1	53.44	7.51	ppb	1.10	40	112.5	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	355472	1.97	482681	73.6	30 - 120	
45	Sc	1	1989563	0.99	2578039	77.2	30 - 120	
72	Ge	1	1158145	1.35	1602132	72.3	30 - 120	
115	In	1	3386549	1.03	4429803	76.4	30 - 120	
165	Ho	1	6727034	0.92	8281520	81.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\244_MSD.D\244_MSD.D#
Date Acquired:	Nov 8 2011 07:32 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22016-a-3-f msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	4507
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110711.B\243_MS.D\243_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	45.68	ppb	0.46	44.67	2.24	20	
51	V	72	1	342.80	ppb	0.51	313.70	8.87	20	
52	Cr	72	1	109.10	ppb	0.20	103.50	5.27	20	
55	Mn	72	1	720.30	ppb	0.76	675.60	6.40	20	
59	Co	72	1	65.41	ppb	0.87	63.22	3.41	20	
60	Ni	72	1	65.00	ppb	0.74	63.44	2.43	20	
63	Cu	72	1	65.46	ppb	0.87	63.97	2.30	20	
66	Zn	72	1	204.20	ppb	0.69	191.20	6.58	20	
75	As	72	1	44.80	ppb	0.65	44.53	0.60	20	
78	Se	72	1	45.22	ppb	4.44	44.24	2.19	20	
95	Mo	72	1	45.67	ppb	0.39	44.85	1.81	20	
107	Ag	115	1	41.11	ppb	1.69	40.02	2.69	20	
111	Cd	115	1	42.72	ppb	1.44	41.33	3.31	20	
118	Sn	115	1	42.67	ppb	1.59	41.75	2.18	20	
121	Sb	115	1	31.20	ppb	1.42	30.26	3.06	20	
137	Ba	115	1	443.00	ppb	0.57	432.40	2.42	20	
205	Tl	165	1	44.09	ppb	1.09	42.99	2.53	20	
208	Pb	165	1	53.52	ppb	1.23	52.05	2.78	20	
232	Th	165	1	55.01	ppb	1.77	57.79	4.93	20	
238	U	165	1	55.35	ppb	1.42	53.44	3.51	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	345231	0.33	482681	71.5	30 - 120	
45	Sc	1	1943261	1.88	2578039	75.4	30 - 120	
72	Ge	1	1149307	0.70	1602132	71.7	30 - 120	
115	In	1	3315619	1.32	4429803	74.8	30 - 120	
165	Ho	1	6614486	0.94	8281520	79.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\245SMPL.D\245SMPL.D#
Date Acquired:	Nov 8 2011 07:35 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22016-c-4-c
Misc Info:	
Vial Number:	4508
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.32	2.32	ppb	4.33	3600	
51	V	72	1	96.75	96.75	ppb	0.87	3600	
52	Cr	72	1	28.55	28.55	ppb	1.28	3600	
55	Mn	72	1	558.10	558.10	ppb	0.43	18000	
59	Co	72	1	20.59	20.59	ppb	0.64	3600	
60	Ni	72	1	26.85	26.85	ppb	1.00	3600	
63	Cu	72	1	57.24	57.24	ppb	0.40	3600	
66	Zn	72	1	182.60	182.60	ppb	0.27	3600	
75	As	72	1	8.28	8.28	ppb	0.91	3600	
78	Se	72	1	2.42	2.42	ppb	11.48	3600	
95	Mo	72	1	1.68	1.68	ppb	4.50	3600	
107	Ag	115	1	0.12	0.12	ppb	4.84	3600	
111	Cd	115	1	0.74	0.74	ppb	5.71	3600	
118	Sn	115	1	2.35	2.35	ppb	3.37	3600	
121	Sb	115	1	0.40	0.40	ppb	4.07	3600	
137	Ba	115	1	92.49	92.49	ppb	0.70	3600	
205	Tl	165	1	0.74	0.74	ppb	1.40	3600	
208	Pb	165	1	21.73	21.73	ppb	0.23	3600	
232	Th	165	1	14.77	14.77	ppb	1.70	1000	
238	U	165	1	5.15	5.15	ppb	2.04	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	346716	1.11	482681	71.8	30 - 120	
45	Sc	1	1890055	0.58	2578039	73.3	30 - 120	
72	Ge	1	1152717	0.74	1602132	71.9	30 - 120	
115	In	1	3313188	0.63	4429803	74.8	30 - 120	
165	Ho	1	6646652	0.70	8281520	80.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\246SMPL.D\246SMPL.D#
Date Acquired:	Nov 8 2011 07:38 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22016-a-5-b
Misc Info:	
Vial Number:	4509
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.19	2.19	ppb	0.43	3600	
51	V	72	1	92.41	92.41	ppb	0.90	3600	
52	Cr	72	1	35.89	35.89	ppb	0.99	3600	
55	Mn	72	1	1,052.00	1052.00	ppb	1.73	18000	
59	Co	72	1	21.19	21.19	ppb	0.80	3600	
60	Ni	72	1	31.75	31.75	ppb	1.76	3600	
63	Cu	72	1	49.47	49.47	ppb	0.70	3600	
66	Zn	72	1	140.20	140.20	ppb	0.85	3600	
75	As	72	1	11.33	11.33	ppb	1.42	3600	
78	Se	72	1	2.69	2.69	ppb	20.95	3600	
95	Mo	72	1	3.34	3.34	ppb	2.49	3600	
107	Ag	115	1	0.18	0.18	ppb	3.95	3600	
111	Cd	115	1	0.85	0.85	ppb	4.58	3600	
118	Sn	115	1	1.94	1.94	ppb	4.81	3600	
121	Sb	115	1	0.83	0.83	ppb	2.90	3600	
137	Ba	115	1	588.90	588.90	ppb	1.51	3600	
205	Tl	165	1	0.69	0.69	ppb	2.79	3600	
208	Pb	165	1	34.35	34.35	ppb	1.02	3600	
232	Th	165	1	20.32	20.32	ppb	1.35	1000	
238	U	165	1	4.21	4.21	ppb	0.75	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	320321	0.86	482681	66.4	30 - 120	
45	Sc	1	1697950	0.84	2578039	65.9	30 - 120	
72	Ge	1	1049985	0.69	1602132	65.5	30 - 120	
115	In	1	3140724	0.48	4429803	70.9	30 - 120	
165	Ho	1	6456311	0.51	8281520	78.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\247SMPL.D\247SMPL.D#
Date Acquired: Nov 8 2011 07:41 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22016-b-6-a
Misc Info:
Vial Number: 4510
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 04:56 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.35	2.35	ppb	3.67	3600	
51	V	72	1	98.97	98.97	ppb	1.97	3600	
52	Cr	72	1	38.98	38.98	ppb	2.52	3600	
55	Mn	72	1	981.00	981.00	ppb	2.57	18000	
59	Co	72	1	21.42	21.42	ppb	2.36	3600	
60	Ni	72	1	34.27	34.27	ppb	1.68	3600	
63	Cu	72	1	55.16	55.16	ppb	2.01	3600	
66	Zn	72	1	152.40	152.40	ppb	2.05	3600	
75	As	72	1	12.48	12.48	ppb	0.57	3600	
78	Se	72	1	2.33	2.33	ppb	18.27	3600	
95	Mo	72	1	2.04	2.04	ppb	6.21	3600	
107	Ag	115	1	0.20	0.20	ppb	2.73	3600	
111	Cd	115	1	0.96	0.96	ppb	3.65	3600	
118	Sn	115	1	2.19	2.19	ppb	2.20	3600	
121	Sb	115	1	0.91	0.91	ppb	2.41	3600	
137	Ba	115	1	545.40	545.40	ppb	0.70	3600	
205	Tl	165	1	0.75	0.75	ppb	1.04	3600	
208	Pb	165	1	45.40	45.40	ppb	0.92	3600	
232	Th	165	1	21.59	21.59	ppb	2.23	1000	
238	U	165	1	3.63	3.63	ppb	0.70	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	319268	0.32	482681	66.1	30 - 120	
45	Sc	1	1717393	1.53	2578039	66.6	30 - 120	
72	Ge	1	1065842	1.57	1602132	66.5	30 - 120	
115	In	1	3177102	1.06	4429803	71.7	30 - 120	
165	Ho	1	6499491	0.36	8281520	78.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\248_CCV.D\248_CCV.D#
Date Acquired: Nov 8 2011 07:44 am
Operator: LRD
Sample Name: CCV-1116521
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 04:56 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.95	ppb	1.57	50	103.9	90 - 110	
51	V	72	1	45.66	ppb	1.25	50	91.3	90 - 110	
52	Cr	72	1	46.69	ppb	1.69	50	93.4	90 - 110	
55	Mn	72	1	47.14	ppb	1.81	50	94.3	90 - 110	
59	Co	72	1	49.99	ppb	0.49	50	100.0	90 - 110	
60	Ni	72	1	48.84	ppb	1.42	50	97.7	90 - 110	
63	Cu	72	1	48.33	ppb	2.25	50	96.7	90 - 110	
66	Zn	72	1	49.95	ppb	1.85	50	99.9	90 - 110	
75	As	72	1	50.20	ppb	1.94	50	100.4	90 - 110	
78	Se	72	1	50.64	ppb	3.31	50	101.3	90 - 110	
95	Mo	72	1	52.23	ppb	2.18	50	104.5	90 - 110	
107	Ag	115	1	48.33	ppb	1.36	50	96.7	90 - 110	
111	Cd	115	1	48.50	ppb	0.87	50	97.0	90 - 110	
118	Sn	115	1	47.91	ppb	0.94	50	95.8	90 - 110	
121	Sb	115	1	48.51	ppb	0.96	50	97.0	90 - 110	
137	Ba	115	1	49.74	ppb	2.05	50	99.5	90 - 110	
205	Tl	165	1	53.38	ppb	0.89	50	106.8	90 - 110	
208	Pb	165	1	51.77	ppb	1.27	50	103.5	90 - 110	
232	Th	165	1	54.50	ppb	3.33	50	109.0	90 - 110	
238	U	165	1	55.28	ppb	1.62	50	110.6	90 - 110	Fail

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	294081	0.77	482681	60.9	30 - 120	
45	Sc	1	1735738	0.43	2578039	67.3	30 - 120	
72	Ge	1	1141393	0.87	1602132	71.2	30 - 120	
115	In	1	3412613	0.95	4429803	77.0	30 - 120	
165	Ho	1	6521546	1.22	8281520	78.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\249_CCB.D\249_CCB.D#
Date Acquired: Nov 8 2011 07:47 am
Operator: LRD
Sample Name: CCB-1116509
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 04:56 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.016	ppb	80.45	1.00	
51	V	72	1	0.041	ppb	39.07	1.00	
52	Cr	72	1	-0.003	ppb	338.96	1.00	
55	Mn	72	1	0.051	ppb	17.72	1.00	
59	Co	72	1	0.012	ppb	7.14	1.00	
60	Ni	72	1	0.016	ppb	35.23	1.00	
63	Cu	72	1	0.014	ppb	50.37	1.00	
66	Zn	72	1	-0.005	ppb	231.63	1.00	
75	As	72	1	0.018	ppb	35.03	1.00	
78	Se	72	1	0.223	ppb	4.88	1.00	
95	Mo	72	1	0.004	ppb	126.33	1.00	
107	Ag	115	1	0.013	ppb	2.69	1.00	
111	Cd	115	1	0.013	ppb	29.12	1.00	
118	Sn	115	1	0.032	ppb	26.64	1.00	
121	Sb	115	1	0.020	ppb	7.68	1.00	
137	Ba	115	1	0.035	ppb	33.85	1.00	
205	Tl	165	1	0.031	ppb	8.13	1.00	
208	Pb	165	1	0.016	ppb	6.73	1.00	
232	Th	165	1	0.031	ppb	0.90	1.00	
238	U	165	1	0.014	ppb	9.93	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	293025	0.69	482681	60.7	30 - 120	
45	Sc	1	1750869	0.97	2578039	67.9	30 - 120	
72	Ge	1	1151327	0.81	1602132	71.9	30 - 120	
115	In	1	3449302	1.11	4429803	77.9	30 - 120	
165	Ho	1	6591472	0.81	8281520	79.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110711.B\250WASH.D\250WASH.D#
Date Acquired: Nov 8 2011 07:50 am
Operator: LRD
Sample Name: LLICV-1116520
Misc Info:
Vial Number: 1206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 04:56 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.099 ppb	15.69	1.30	
51	V	72	1	4.644 ppb	1.11	6.50	
52	Cr	72	1	2.089 ppb	3.58	2.60	
55	Mn	72	1	1.140 ppb	2.16	1.30	
59	Co	72	1	1.052 ppb	2.01	1.30	
60	Ni	72	1	2.252 ppb	2.62	2.60	
63	Cu	72	1	2.125 ppb	0.64	2.60	
66	Zn	72	1	10.570 ppb	1.03	13.00	
75	As	72	1	5.124 ppb	1.84	6.50	
78	Se	72	1	5.311 ppb	11.05	6.50	
95	Mo	72	1	2.236 ppb	2.45	2.60	
107	Ag	115	1	4.854 ppb	1.87	6.50	
111	Cd	115	1	1.027 ppb	3.02	1.30	
118	Sn	115	1	9.648 ppb	2.62	13.00	
121	Sb	115	1	2.020 ppb	3.10	2.60	
137	Ba	115	1	1.078 ppb	3.35	1.30	
205	Tl	165	1	1.140 ppb	1.00	1.30	
208	Pb	165	1	1.133 ppb	0.89	1.30	
232	Th	165	1	2.211 ppb	0.48	2.60	
238	U	165	1	1.149 ppb	0.97	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	295830	1.50	482681	61.3	30 - 120	
45	Sc	1	1784578	0.61	2578039	69.2	30 - 120	
72	Ge	1	1170425	1.74	1602132	73.1	30 - 120	
115	In	1	3472186	2.19	4429803	78.4	30 - 120	
165	Ho	1	6614450	0.88	8281520	79.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\251SMPL.D\251SMPL.D#
Date Acquired:	Nov 8 2011 07:53 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22207-a-48-d
Misc Info:	93854 6020
Vial Number:	4511
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.51	0.51	ppb	12.62	3600	
51	V	72	1	9.82	9.82	ppb	0.12	3600	
52	Cr	72	1	7.77	7.77	ppb	0.77	3600	
55	Mn	72	1	122.50	122.50	ppb	0.64	18000	
59	Co	72	1	5.33	5.33	ppb	0.76	3600	
60	Ni	72	1	8.16	8.16	ppb	1.75	3600	
63	Cu	72	1	5.44	5.44	ppb	1.69	3600	
66	Zn	72	1	13.08	13.08	ppb	0.62	3600	
75	As	72	1	4.25	4.25	ppb	1.84	3600	
78	Se	72	1	1.59	1.59	ppb	24.91	3600	
95	Mo	72	1	0.26	0.26	ppb	3.04	3600	
107	Ag	115	1	0.03	0.03	ppb	16.45	3600	
111	Cd	115	1	0.21	0.21	ppb	25.84	3600	
118	Sn	115	1	0.21	0.21	ppb	5.42	3600	
121	Sb	115	1	0.10	0.10	ppb	5.32	3600	
137	Ba	115	1	229.20	229.20	ppb	0.78	3600	
205	Tl	165	1	0.10	0.10	ppb	4.88	3600	
208	Pb	165	1	5.44	5.44	ppb	0.83	3600	
232	Th	165	1	1.19	1.19	ppb	3.63	1000	
238	U	165	1	0.60	0.60	ppb	2.12	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	296772	0.88	482681	61.5	30 - 120	
45	Sc	1	1793402	0.15	2578039	69.6	30 - 120	
72	Ge	1	1171100	0.24	1602132	73.1	30 - 120	
115	In	1	3427301	0.36	4429803	77.4	30 - 120	
165	Ho	1	6578247	1.24	8281520	79.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\252SMPL.D\252SMPL.D#
Date Acquired:	Nov 8 2011 07:56 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22207-a-49-b
Misc Info:	
Vial Number:	4512
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.45	0.45	ppb	17.76	3600	
51	V	72	1	12.68	12.68	ppb	2.33	3600	
52	Cr	72	1	18.86	18.86	ppb	0.60	3600	
55	Mn	72	1	23.57	23.57	ppb	0.34	18000	
59	Co	72	1	1.52	1.52	ppb	1.35	3600	
60	Ni	72	1	5.19	5.19	ppb	0.43	3600	
63	Cu	72	1	3.31	3.31	ppb	0.87	3600	
66	Zn	72	1	39.20	39.20	ppb	0.48	3600	
75	As	72	1	2.37	2.37	ppb	1.53	3600	
78	Se	72	1	1.67	1.67	ppb	28.63	3600	
95	Mo	72	1	0.40	0.40	ppb	5.04	3600	
107	Ag	115	1	0.01	0.01	ppb	18.32	3600	
111	Cd	115	1	0.11	0.11	ppb	16.10	3600	
118	Sn	115	1	0.08	0.08	ppb	12.82	3600	
121	Sb	115	1	0.05	0.05	ppb	1.01	3600	
137	Ba	115	1	164.60	164.60	ppb	0.59	3600	
205	Tl	165	1	0.12	0.12	ppb	0.77	3600	
208	Pb	165	1	3.82	3.82	ppb	0.63	3600	
232	Th	165	1	2.29	2.29	ppb	0.95	1000	
238	U	165	1	0.38	0.38	ppb	2.38	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	282826	0.56	482681	58.6	30 - 120	
45	Sc	1	1792366	1.82	2578039	69.5	30 - 120	
72	Ge	1	1136549	1.21	1602132	70.9	30 - 120	
115	In	1	3310414	1.19	4429803	74.7	30 - 120	
165	Ho	1	6454791	0.64	8281520	77.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\253SMPL.D\253SMPL.D#
Date Acquired:	Nov 8 2011 07:59 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22207-a-50-b
Misc Info:	
Vial Number:	2101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 04:56 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.19	0.19	ppb	18.29	3600	
51	V	72	1	13.99	13.99	ppb	1.02	3600	
52	Cr	72	1	5.77	5.77	ppb	2.18	3600	
55	Mn	72	1	10.55	10.55	ppb	1.59	18000	
59	Co	72	1	0.72	0.72	ppb	0.19	3600	
60	Ni	72	1	2.50	2.50	ppb	0.91	3600	
63	Cu	72	1	2.37	2.37	ppb	3.20	3600	
66	Zn	72	1	10.85	10.85	ppb	1.52	3600	
75	As	72	1	2.68	2.68	ppb	3.12	3600	
78	Se	72	1	2.30	2.30	ppb	22.84	3600	
95	Mo	72	1	1.07	1.07	ppb	4.26	3600	
107	Ag	115	1	0.01	0.01	ppb	38.89	3600	
111	Cd	115	1	0.16	0.16	ppb	10.05	3600	
118	Sn	115	1	0.20	0.20	ppb	11.39	3600	
121	Sb	115	1	0.05	0.05	ppb	7.55	3600	
137	Ba	115	1	158.90	158.90	ppb	0.58	3600	
205	Tl	165	1	0.08	0.08	ppb	1.99	3600	
208	Pb	165	1	2.66	2.66	ppb	1.11	3600	
232	Th	165	1	1.97	1.97	ppb	0.93	1000	
238	U	165	1	0.48	0.48	ppb	1.17	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	307134	0.22	482681	63.6	30 - 120	
45	Sc	1	1856692	1.11	2578039	72.0	30 - 120	
72	Ge	1	1178181	0.50	1602132	73.5	30 - 120	
115	In	1	3370077	0.15	4429803	76.1	30 - 120	
165	Ho	1	6538946	0.41	8281520	79.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\254_CCV.D\254_CCV.D#
Date Acquired:	Nov 8 2011 08:02 am
Operator:	LRD
Sample Name:	CCV-1116521
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.91	ppb	1.64	50	101.8	90 - 110	
51	V	72	1	47.76	ppb	1.05	50	95.5	90 - 110	
52	Cr	72	1	48.21	ppb	0.85	50	96.4	90 - 110	
55	Mn	72	1	48.71	ppb	0.37	50	97.4	90 - 110	
59	Co	72	1	51.42	ppb	0.34	50	102.8	90 - 110	
60	Ni	72	1	50.71	ppb	0.80	50	101.4	90 - 110	
63	Cu	72	1	49.96	ppb	1.16	50	99.9	90 - 110	
66	Zn	72	1	51.02	ppb	0.59	50	102.0	90 - 110	
75	As	72	1	51.52	ppb	0.52	50	103.0	90 - 110	
78	Se	72	1	53.61	ppb	5.23	50	107.2	90 - 110	
95	Mo	72	1	52.78	ppb	0.49	50	105.6	90 - 110	
107	Ag	115	1	49.65	ppb	1.12	50	99.3	90 - 110	
111	Cd	115	1	49.19	ppb	1.05	50	98.4	90 - 110	
118	Sn	115	1	48.04	ppb	1.30	50	96.1	90 - 110	
121	Sb	115	1	48.53	ppb	0.72	50	97.1	90 - 110	
137	Ba	115	1	50.24	ppb	1.20	50	100.5	90 - 110	
205	Tl	165	1	52.74	ppb	1.38	50	105.5	90 - 110	
208	Pb	165	1	51.73	ppb	1.19	50	103.5	90 - 110	
232	Th	165	1	54.03	ppb	0.73	50	108.1	90 - 110	
238	U	165	1	54.35	ppb	1.57	50	108.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	334793	0.97	482681	69.4	30 - 120	
45	Sc	1	1908021	1.08	2578039	74.0	30 - 120	
72	Ge	1	1230742	1.13	1602132	76.8	30 - 120	
115	In	1	3641650	0.31	4429803	82.2	30 - 120	
165	Ho	1	6898418	0.92	8281520	83.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110711.B\255_CCB.D\255_CCB.D#
Date Acquired:	Nov 8 2011 08:05 am
Operator:	LRD
Sample Name:	CCB-1116509
Misc Info:	
Vial Number:	1305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 04:56 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.018	ppb	158.83	1.00	
51	V	72	1	0.018	ppb	119.41	1.00	
52	Cr	72	1	0.005	ppb	80.21	1.00	
55	Mn	72	1	-0.016	ppb	37.35	1.00	
59	Co	72	1	0.013	ppb	21.15	1.00	
60	Ni	72	1	0.009	ppb	54.27	1.00	
63	Cu	72	1	0.010	ppb	57.06	1.00	
66	Zn	72	1	-0.013	ppb	61.92	1.00	
75	As	72	1	0.008	ppb	75.95	1.00	
78	Se	72	1	0.235	ppb	64.94	1.00	
95	Mo	72	1	-0.008	ppb	52.07	1.00	
107	Ag	115	1	0.011	ppb	18.55	1.00	
111	Cd	115	1	0.011	ppb	37.18	1.00	
118	Sn	115	1	0.035	ppb	33.05	1.00	
121	Sb	115	1	0.020	ppb	19.34	1.00	
137	Ba	115	1	0.030	ppb	13.81	1.00	
205	Tl	165	1	0.026	ppb	5.12	1.00	
208	Pb	165	1	0.012	ppb	8.65	1.00	
232	Th	165	1	0.035	ppb	9.31	1.00	
238	U	165	1	0.014	ppb	5.58	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	340071	0.34	482681	70.5	30 - 120	
45	Sc	1	1933181	0.56	2578039	75.0	30 - 120	
72	Ge	1	1250226	1.38	1602132	78.0	30 - 120	
115	In	1	3653751	1.18	4429803	82.5	30 - 120	
165	Ho	1	6998338	0.84	8281520	84.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110711.B\189CALB.D\189CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

95282 - 6020 water
95284 - Soil

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

ICP/MS Technical Data Review Checklist

Lab Project ID Number(s): see attached cover sheet   Check Method/SOP Used: 6020/DV-MT-0018   200.8/DV-MT-0002

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments & Samples Affected
Tune					
1. Tune solution analyzed min. of 4 times for 6020 or 5 times for 200.8?	✓			✓	
2. Tune RSD <5%?	✓			✓	
2. Resolution ≤ 0.9 AMU full width at 10% peak height? **NOTE**: This also satisfies 200.8, 1.0 AMU at 5% peak height	✓			✓	
Initial Calibration					
1. Done with a minimum of 3 integrations of a high standard and blank?	✓			✓	
2. ICV/CCV run at beginning of run, 10% frequency, and end of run? Results with 10% of expected value?	✓			✓	
3. ICB/CCB run at beginning of run, 10% frequency, and end of run? Results +/- RL	✓			✓	
4. ICSA/AB analyzed at beginning of run and every 12 hours and results 80- 120% of TV?	✓			✓	
5. RL Std analyzed at beginning of run and results +/- 50% of TV(for AFCEE 4.0, DoD V3 +/- 20% of true value)?	✓			✓	
Client Samples & QC Sample Results					
1. Were all samples within linear range, ≤ 90% of LDR for 200.8?	✓			✓	
2. Dilutions due to target elements?____ Dilutions for other reasons?____		✓		✓	
3. All reported results bracketed by in control QC?	✓			✓	
4. All 6020 internal standards for all analyses 30-120% of intensities in blank or all 200.8 internal standards 60-125%?	✓			✓	
5. Was a 5X serial dilution analyzed for 6020 and, if so, are results ± 10% of original result, if original ≥ 100x MDL?	✓			✓	
6. LCS included in batch and within QC limits?	✓			✓	
7. Method blank included and <1/2RL?	✓			✓	
8. MS and MSD included in batch?	✓			✓	
9. PDS analyzed and recovery 75-125%?	✓			✓	
10. Manual calculations documented properly and checked?	✓			✓	
11. Are non-conformances documented on an NCM?	✓			✓	
12. Is the appropriate raw data included?	✓			✓	
13. Are all results manually entered into LIMS verified? Are all electronic data files archived to the appropriate network locations?	✓				
14. Were special client requirements met?	✓			✓	

1st Level Reviewer: [signature]   Date: 11/8/11

2nd Level Reviewer: [signature]   Date: 11/8/11

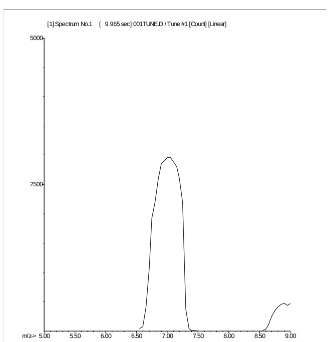
L:\QA\Edit\FORMS\Data Review\ICPMS

Rev. 2, 6/12/08

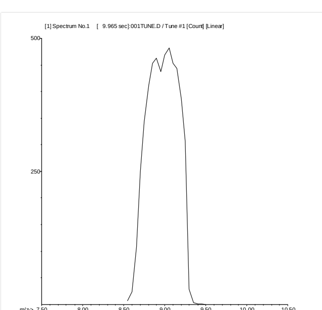
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\001TUNE.D
Date Acquired: Nov 8 2011 06:55 pm
Acq. Method: tun_isis.M
Operator: LRD
Sample Name: ITUNE-1109063
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

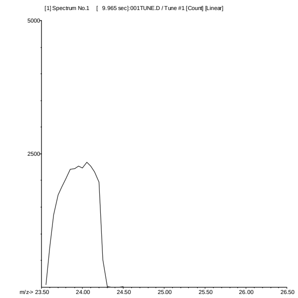
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	**%RSD**	Required	Flag
7 Li	30877	30494	30853	31133	31326	30580	**1.15**	5.00	
9 Be	5064	5072	5042	4928	5095	5184	**1.83**	5.00	
24 Mg	25982	25497	26170	25779	26260	26203	**1.27**	5.00	
59 Co	202515	201270	201238	201670	204410	203988	**0.77**	5.00	
115 In	2363324	2340149	2376232	2394274	2343161	2362807	**0.96**	5.00	
208 Pb	171594	171922	172722	170468	171672	171186	**0.49**	5.00	
238 U	312736	314914	314036	316112	309672	308944	**1.03**	5.00	



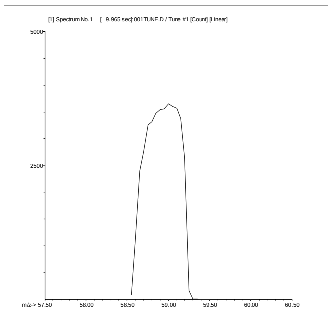
7 Li
Mass Calib.
Actual: 7.00
Required:6.90 - 7.10
Flag:
Peak Width
Actual: 0.65
Required:0.90
Flag:



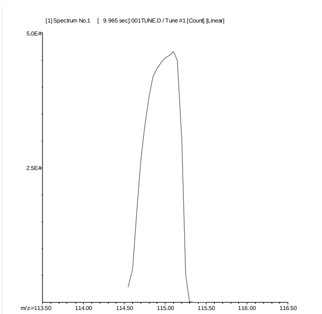
9 Be
Mass Calib.
Actual: 8.95
Required:8.90 - 9.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



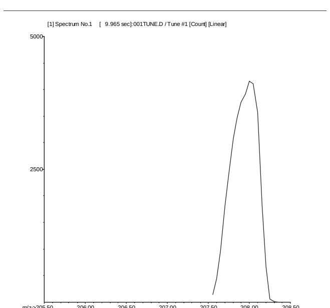
24 Mg
Mass Calib.
Actual: 24.00
Required:23.90 - 24.10
Flag:
Peak Width
Actual: 0.65
Required:0.90
Flag:



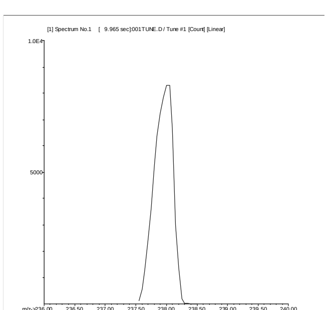
59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



208 Pb
Mass Calib.
Actual: 208.00
Required: 207.90 - 208.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



238 U
Mass Calib.
Actual: 238.00
Required: 237.90 - 238.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:

Tune Result: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#
Date Acquired:	Nov 8 2011 07:01 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1118467
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 06:59 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	3	173.21
51	V	72	1	120	627.47
52	Cr	72	1	7672	6.53
55	Mn	72	1	1040	2.54
59	Co	72	1	127	12.06
60	Ni	72	1	487	5.17
63	Cu	72	1	1170	17.45
66	Zn	72	1	418	2.09
75	As	72	1	91	3.37
78	Se	72	1	283	5.39
95	Mo	72	1	93	6.19
107	Ag	115	1	27	21.65
111	Cd	115	1	29	24.13
118	Sn	115	1	677	17.13
121	Sb	115	1	27	12.50
137	Ba	115	1	50	17.64
205	Tl	165	1	142	21.78
208	Pb	165	1	692	5.79
232	Th	165	1	130	20.35
238	U	165	1	79	12.91

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	534602	0.91
45	Sc	1	2551677	1.92
72	Ge	1	1553005	0.65
115	In	1	4260602	1.11
165	Ho	1	8806612	1.74

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\004ICAL.D\004ICAL.D#
Date Acquired: Nov 8 2011 07:04 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: IC-1118450
Misc Info:
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:02 pm
Sample Type: ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	83260	0.87
51	V	72	1	2234696	2.06
52	Cr	72	1	2410353	1.53
55	Mn	72	1	2030584	1.30
59	Co	72	1	3275476	1.14
60	Ni	72	1	788254	0.92
63	Cu	72	1	2009116	0.96
66	Zn	72	1	357292	0.63
75	As	72	1	244869	0.35
78	Se	72	1	32731	2.33
95	Mo	72	1	918810	0.81
107	Ag	115	1	2842797	1.28
111	Cd	115	1	472644	0.51
118	Sn	115	1	1227720	0.63
121	Sb	115	1	1379185	0.36
137	Ba	115	1	530012	0.30
205	Tl	165	1	5016161	0.28
208	Pb	165	1	6984848	0.76
232	Th	165	1	6855643	1.42
238	U	165	1	7484493	0.84

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539952	0.57	534602	101.0	30 - 120	
45	Sc	1	2551001	1.35	2551677	100.0	30 - 120	
72	Ge	1	1567905	0.68	1553005	101.0	30 - 120	
115	In	1	4325443	1.91	4260602	101.5	30 - 120	
165	Ho	1	8886135	0.27	8806612	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Initial Calibration Verification (ICV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\005_ICV.D\005_ICV.D#
Date Acquired:	Nov 8 2011 07:06 pm
Operator:	LRD
Sample Name:	ICV-1118451
Misc Info:	
Vial Number:	2103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	ICV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.01	ppb	0.75	40	100.0	90 - 110	
51	V	72	1	40.21	ppb	2.67	40	100.5	90 - 110	
52	Cr	72	1	40.93	ppb	3.29	40	102.3	90 - 110	
55	Mn	72	1	40.82	ppb	1.89	40	102.1	90 - 110	
59	Co	72	1	40.80	ppb	1.34	40	102.0	90 - 110	
60	Ni	72	1	40.94	ppb	2.20	40	102.4	90 - 110	
63	Cu	72	1	39.54	ppb	2.72	40	98.9	90 - 110	
66	Zn	72	1	40.19	ppb	2.23	40	100.5	90 - 110	
75	As	72	1	41.71	ppb	1.45	40	104.3	90 - 110	
78	Se	72	1	42.32	ppb	4.51	40	105.8	90 - 110	
95	Mo	72	1	40.46	ppb	2.27	40	101.2	90 - 110	
107	Ag	115	1	40.78	ppb	0.74	40	102.0	90 - 110	
111	Cd	115	1	41.00	ppb	0.45	40	102.5	90 - 110	
118	Sn	115	1	39.46	ppb	1.08	40	98.7	90 - 110	
121	Sb	115	1	39.57	ppb	1.40	40	98.9	90 - 110	
137	Ba	115	1	40.77	ppb	1.58	40	101.9	90 - 110	
205	Tl	165	1	41.40	ppb	1.67	40	103.5	90 - 110	
208	Pb	165	1	41.66	ppb	1.35	40	104.2	90 - 110	
232	Th	165	1	42.39	ppb	1.77	40	106.0	90 - 110	
238	U	165	1	40.53	ppb	0.99	40	101.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532514	0.82	534602	99.6	30 - 120	
45	Sc	1	2562342	0.33	2551677	100.4	30 - 120	
72	Ge	1	1559886	1.81	1553005	100.4	30 - 120	
115	In	1	4281456	0.42	4260602	100.5	30 - 120	
165	Ho	1	8747750	1.01	8806612	99.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\006WASH.D\006WASH.D#
Date Acquired:	Nov 8 2011 07:09 pm
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.097 ppb	16.98	1.30	
51	V	72	1	5.011 ppb	2.83	6.50	
52	Cr	72	1	2.215 ppb	1.70	2.60	
55	Mn	72	1	1.206 ppb	0.57	1.30	
59	Co	72	1	1.098 ppb	0.87	1.30	
60	Ni	72	1	2.255 ppb	4.41	2.60	
63	Cu	72	1	2.179 ppb	2.67	2.60	
66	Zn	72	1	10.680 ppb	0.44	13.00	
75	As	72	1	5.293 ppb	3.46	6.50	
78	Se	72	1	5.442 ppb	9.32	6.50	
95	Mo	72	1	2.184 ppb	3.08	2.60	
107	Ag	115	1	5.106 ppb	1.05	6.50	
111	Cd	115	1	1.075 ppb	3.96	1.30	
118	Sn	115	1	9.854 ppb	0.71	13.00	
121	Sb	115	1	2.251 ppb	1.39	2.60	
137	Ba	115	1	1.143 ppb	2.21	1.30	
205	Tl	165	1	1.189 ppb	0.58	1.30	
208	Pb	165	1	1.103 ppb	1.64	1.30	
232	Th	165	1	2.129 ppb	1.56	2.60	
238	U	165	1	1.099 ppb	0.52	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	531363	1.47	534602	99.4	30 - 120	
45	Sc	1	2576934	0.44	2551677	101.0	30 - 120	
72	Ge	1	1574866	0.50	1553005	101.4	30 - 120	
115	In	1	4325243	0.73	4260602	101.5	30 - 120	
165	Ho	1	8919802	1.24	8806612	101.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\007_ICB.D\007_ICB.D#
Date Acquired: Nov 8 2011 07:12 pm
Operator: LRD
Sample Name: ICB-1118467
Misc Info:
Vial Number: 2104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: ICB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.01	ppb	2.49	1.00	
51	V	72	1	0.02	ppb	102.54	1.00	
52	Cr	72	1	0.00	ppb	113280.00	1.00	
55	Mn	72	1	0.05	ppb	21.16	1.00	
59	Co	72	1	0.00	ppb	8.06	1.00	
60	Ni	72	1	-0.01	ppb	70.37	1.00	
63	Cu	72	1	0.00	ppb	204.17	1.00	
66	Zn	72	1	0.04	ppb	16.66	1.00	
75	As	72	1	0.01	ppb	42.67	1.00	
78	Se	72	1	0.07	ppb	60.69	1.00	
95	Mo	72	1	0.02	ppb	142.68	1.00	
107	Ag	115	1	0.00	ppb	25.28	1.00	
111	Cd	115	1	0.00	ppb	169.56	1.00	
118	Sn	115	1	0.02	ppb	16.28	1.00	
121	Sb	115	1	0.05	ppb	15.53	1.00	
137	Ba	115	1	0.00	ppb	82.92	1.00	
205	Tl	165	1	0.02	ppb	7.30	1.00	
208	Pb	165	1	0.00	ppb	64.30	1.00	
232	Th	165	1	0.02	ppb	16.23	1.00	
238	U	165	1	0.00	ppb	17.42	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	534402	1.69	534602	100.0	30 - 120	
45	Sc	1	2596581	0.57	2551677	101.8	30 - 120	
72	Ge	1	1583967	0.47	1553005	102.0	30 - 120	
115	In	1	4332363	0.61	4260602	101.7	30 - 120	
165	Ho	1	8942333	1.35	8806612	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

RL STD QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\008RLST.D\008RLST.D#
Date Acquired:	Nov 8 2011 07:15 pm
Operator:	LRD
Sample Name:	CRI-1118452
Misc Info:	
Vial Number:	2105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	RLSTD
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1.09	ppb	18.52	1	108.8	80 - 120	
51	V	72	1	0.97	ppb	1.01	1	96.6	80 - 120	
52	Cr	72	1	0.96	ppb	1.62	1	95.6	80 - 120	
55	Mn	72	1	0.97	ppb	3.69	1	97.2	80 - 120	
59	Co	72	1	0.98	ppb	2.87	1	97.9	80 - 120	
60	Ni	72	1	0.99	ppb	2.82	1	99.1	80 - 120	
63	Cu	72	1	0.98	ppb	1.28	1	98.4	80 - 120	
66	Zn	72	1	10.08	ppb	2.06	10	100.8	80 - 120	
75	As	72	1	1.00	ppb	2.94	1	99.5	80 - 120	
78	Se	72	1	1.14	ppb	11.63	1	113.5	80 - 120	
95	Mo	72	1	0.95	ppb	3.70	1	95.3	80 - 120	
107	Ag	115	1	1.00	ppb	1.01	1	99.9	80 - 120	
111	Cd	115	1	0.95	ppb	1.40	1	95.4	80 - 120	
118	Sn	115	1	9.64	ppb	2.03	10	96.4	80 - 120	
121	Sb	115	1	1.00	ppb	1.94	1	99.8	80 - 120	
137	Ba	115	1	1.02	ppb	3.08	1	101.6	80 - 120	
205	Tl	165	1	1.00	ppb	0.54	1	100.2	80 - 120	
208	Pb	165	1	0.98	ppb	1.16	1	98.4	80 - 120	
232	Th	165	1	0.97	ppb	2.68	1	96.8	80 - 120	
238	U	165	1	1.00	ppb	2.10	1	99.9	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532464	1.10	534602	99.6	30 - 120	
45	Sc	1	2602954	0.64	2551677	102.0	30 - 120	
72	Ge	1	1582307	1.91	1553005	101.9	30 - 120	
115	In	1	4357284	0.24	4260602	102.3	30 - 120	
165	Ho	1	8965359	0.81	8806612	101.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

AFCEE RL QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\009AFCE.D\009AFCE.D#
Date Acquired:	Nov 8 2011 07:18 pm
Operator:	LRD
Sample Name:	AFCEE RL-1118455
Misc Info:	
Vial Number:	2106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	AFCEERL
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	0.27	ppb	17.70	0	126.1	80 - 120	
51	V	72	1	0.19	ppb	9.27	0	98.2	80 - 120	
52	Cr	72	1	0.18	ppb	3.11	0	95.2	80 - 120	
55	Mn	72	1	0.19	ppb	8.42	0	99.6	80 - 120	
59	Co	72	1	0.20	ppb	0.60	0	100.3	80 - 120	
60	Ni	72	1	0.16	ppb	6.72	0	79.1	80 - 120	
63	Cu	72	1	0.17	ppb	3.96	0	88.3	80 - 120	
66	Zn	72	1	1.99	ppb	1.51	2	98.6	80 - 120	
75	As	72	1	0.19	ppb	14.78	0	95.5	80 - 120	
78	Se	72	1	0.27	ppb	43.08	0	120.0	80 - 120	
95	Mo	72	1	0.21	ppb	6.65	0	108.6	80 - 120	
107	Ag	115	1	0.19	ppb	4.29	0	96.6	80 - 120	
111	Cd	115	1	0.21	ppb	4.37	0	108.3	80 - 120	
118	Sn	115	1	1.86	ppb	1.48	2	96.4	80 - 120	
121	Sb	115	1	0.21	ppb	5.24	0	103.9	80 - 120	
137	Ba	115	1	0.20	ppb	2.61	0	100.4	80 - 120	
205	Tl	165	1	0.20	ppb	2.46	0	100.0	80 - 120	
208	Pb	165	1	0.19	ppb	1.02	0	98.2	80 - 120	
232	Th	165	1	0.19	ppb	5.11	0	98.8	80 - 120	
238	U	165	1	0.19	ppb	2.92	0	96.2	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	536157	0.82	534602	100.3	30 - 120	
45	Sc	1	2581722	2.05	2551677	101.2	30 - 120	
72	Ge	1	1592167	1.23	1553005	102.5	30 - 120	
115	In	1	4366673	0.32	4260602	102.5	30 - 120	
165	Ho	1	9003794	1.24	8806612	102.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\010ICSA.D\010ICSA.D#
Date Acquired:	Nov 8 2011 07:21 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	ICSA-1118457
Misc Info:	
Vial Number:	2108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	ICSA
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit ppb	Flag
9	Be	6	1	0.00	ppb	1642.20	1.00	
51	V	72	1	0.20	ppb	21.60	1.00	
52	Cr	72	1	1.10	ppb	2.99	1.00	
55	Mn	72	1	0.47	ppb	2.52	1.00	
59	Co	72	1	0.05	ppb	4.60	1.00	
60	Ni	72	1	0.78	ppb	1.98	1.00	
63	Cu	72	1	0.33	ppb	5.27	1.00	
66	Zn	72	1	2.67	ppb	0.63	10.00	
75	As	72	1	0.51	ppb	2.74	1.00	
78	Se	72	1	0.26	ppb	115.83	1.00	
95	Mo	72	1	2031.00	ppb	0.16	2000.00	
107	Ag	115	1	0.06	ppb	10.20	1.00	
111	Cd	115	1	0.56	ppb	7.58	1.00	
118	Sn	115	1	0.12	ppb	15.58	10.00	
121	Sb	115	1	0.29	ppb	0.86	1.00	
137	Ba	115	1	0.19	ppb	10.92	1.00	
205	Tl	165	1	0.03	ppb	14.56	1.00	
208	Pb	165	1	0.13	ppb	0.36	1.00	
232	Th	165	1	0.03	ppb	7.10	1.00	
238	U	165	1	0.00	ppb	5.68	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	479328	1.29	534602	89.7	30 - 120	
45	Sc	1	2213987	0.58	2551677	86.8	30 - 120	
72	Ge	1	1350445	0.21	1553005	87.0	30 - 120	
115	In	1	3640257	2.07	4260602	85.4	30 - 120	
165	Ho	1	7865956	0.43	8806612	89.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\011ICSB.D\011ICSB.D#
Date Acquired: Nov 8 2011 07:24 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: ICSAB-1118464
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9	Be	6	1	100.40	1.58	100	100.4	80 - 120	
51	V	72	1	102.50	2.22	100	102.5	80 - 120	
52	Cr	72	1	99.77	0.87	100	99.8	80 - 120	
55	Mn	72	1	100.00	1.36	100	100.0	80 - 120	
59	Co	72	1	96.00	0.85	100	96.0	80 - 120	
60	Ni	72	1	93.19	0.41	100	93.2	80 - 120	
63	Cu	72	1	90.77	0.67	100	90.8	80 - 120	
66	Zn	72	1	99.18	0.40	100	99.2	80 - 120	
75	As	72	1	105.30	0.39	100	105.3	80 - 120	
78	Se	72	1	109.90	3.79	100	109.9	80 - 120	
95	Mo	72	1	2161.00	0.33	2100	102.9	80 - 120	
107	Ag	115	1	90.42	2.87	100	90.4	80 - 120	
111	Cd	115	1	98.44	0.66	100	98.4	80 - 120	
118	Sn	115	1	97.68	0.44	100	97.7	80 - 120	
121	Sb	115	1	106.10	0.46	100	106.1	80 - 120	
137	Ba	115	1	105.30	0.66	100	105.3	80 - 120	
205	Tl	165	1	96.21	0.86	100	96.2	80 - 120	
208	Pb	165	1	95.94	0.17	100	95.9	80 - 120	
232	Th	165	1	102.80	1.56	100	102.8	80 - 120	
238	U	165	1	101.70	1.10	100	101.7	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	484521	0.47	534602	90.6	30 - 120	
45	Sc	1	2171664	0.79	2551677	85.1	30 - 120	
72	Ge	1	1321669	0.56	1553005	85.1	30 - 120	
115	In	1	3599608	0.92	4260602	84.5	30 - 120	
165	Ho	1	7867401	0.84	8806612	89.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\012WASH.D\012WASH.D#
Date Acquired: Nov 8 2011 07:27 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	-0.004 ppb	0.00	1.30	
51	V	72	1	0.008 ppb	15.98	6.50	
52	Cr	72	1	-0.009 ppb	76.49	2.60	
55	Mn	72	1	0.014 ppb	44.57	1.30	
59	Co	72	1	0.005 ppb	14.93	1.30	
60	Ni	72	1	-0.031 ppb	16.86	2.60	
63	Cu	72	1	0.004 ppb	40.12	2.60	
66	Zn	72	1	-0.017 ppb	45.87	13.00	
75	As	72	1	0.005 ppb	72.59	6.50	
78	Se	72	1	0.100 ppb	64.23	6.50	
95	Mo	72	1	0.362 ppb	2.75	2.60	
107	Ag	115	1	0.010 ppb	46.93	6.50	
111	Cd	115	1	0.012 ppb	66.14	1.30	
118	Sn	115	1	-0.011 ppb	88.80	13.00	
121	Sb	115	1	0.018 ppb	8.50	2.60	
137	Ba	115	1	0.008 ppb	26.22	1.30	
205	Tl	165	1	0.014 ppb	7.55	1.30	
208	Pb	165	1	0.007 ppb	15.17	1.30	
232	Th	165	1	0.025 ppb	3.54	2.60	
238	U	165	1	0.012 ppb	16.74	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	526540	0.76	534602	98.5	30 - 120	
45	Sc	1	2487839	1.79	2551677	97.5	30 - 120	
72	Ge	1	1542961	0.29	1553005	99.4	30 - 120	
115	In	1	4299153	1.73	4260602	100.9	30 - 120	
165	Ho	1	8856708	1.78	8806612	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Linear Dynamic Range Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\013_LR.D\013_LR.D#
Date Acquired:	Nov 8 2011 07:30 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	LRA-1118465
Misc Info:	
Vial Number:	2110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LR
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1018.00 ppb	2.26	1000	101.8	90 - 110	
51	V	72	1	920.00 ppb	1.91	1000	92.0	90 - 110	
52	Cr	72	1	935.10 ppb	2.31	1000	93.5	90 - 110	
55	Mn	72	1	958.20 ppb	1.32	1000	95.8	90 - 110	
59	Co	72	1	961.60 ppb	1.16	1000	96.2	90 - 110	
60	Ni	72	1	973.30 ppb	1.24	1000	97.3	90 - 110	
63	Cu	72	1	930.70 ppb	1.79	1000	93.1	90 - 110	
66	Zn	72	1	989.60 ppb	1.16	1000	99.0	90 - 110	
75	As	72	1	1011.00 ppb	1.49	1000	101.1	90 - 110	
78	Se	72	1	1014.00 ppb	1.52	1000	101.4	90 - 110	
95	Mo	72	1	972.70 ppb	1.54	1000	97.3	90 - 110	
107	Ag	115	1	977.10 ppb	1.46	1000	97.7	90 - 110	
111	Cd	115	1	1002.00 ppb	1.80	1000	100.2	90 - 110	
118	Sn	115	1	959.10 ppb	0.80	1000	95.9	90 - 110	
121	Sb	115	1	984.10 ppb	1.06	1000	98.4	90 - 110	
137	Ba	115	1	1026.00 ppb	1.63	1000	102.6	90 - 110	
205	Tl	165	1	996.20 ppb	1.69	1000	99.6	90 - 110	
208	Pb	165	1	977.80 ppb	1.34	1000	97.8	90 - 110	
232	Th	165	1	1012.00 ppb	1.27	1000	101.2	90 - 110	
238	U	165	1	999.60 ppb	1.88	1000	100.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	509542	2.07	534602	95.3	30 - 120	
45	Sc	1	2443155	1.55	2551677	95.7	30 - 120	
72	Ge	1	1540155	1.24	1553005	99.2	30 - 120	
115	In	1	4214409	1.80	4260602	98.9	30 - 120	
165	Ho	1	8927289	0.93	8806612	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\014WASH.D\014WASH.D#
Date Acquired: Nov 8 2011 07:32 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.059 ppb	74.23	1.30	
51	V	72	1	0.057 ppb	66.35	6.50	
52	Cr	72	1	0.038 ppb	85.95	2.60	
55	Mn	72	1	0.048 ppb	19.31	1.30	
59	Co	72	1	0.057 ppb	8.16	1.30	
60	Ni	72	1	0.023 ppb	38.56	2.60	
63	Cu	72	1	0.047 ppb	11.22	2.60	
66	Zn	72	1	0.050 ppb	12.18	13.00	
75	As	72	1	0.069 ppb	25.69	6.50	
78	Se	72	1	0.010 ppb	1862.20	6.50	
95	Mo	72	1	0.230 ppb	6.46	2.60	
107	Ag	115	1	0.089 ppb	11.11	6.50	
111	Cd	115	1	0.058 ppb	9.85	1.30	
118	Sn	115	1	0.363 ppb	13.58	13.00	
121	Sb	115	1	0.161 ppb	5.56	2.60	
137	Ba	115	1	0.060 ppb	20.47	1.30	
205	Tl	165	1	0.109 ppb	8.44	1.30	
208	Pb	165	1	0.058 ppb	17.09	1.30	
232	Th	165	1	0.154 ppb	7.41	2.60	
238	U	165	1	0.108 ppb	10.57	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	516423	0.84	534602	96.6	30 - 120	
45	Sc	1	2497630	0.21	2551677	97.9	30 - 120	
72	Ge	1	1554311	0.21	1553005	100.1	30 - 120	
115	In	1	4296007	0.20	4260602	100.8	30 - 120	
165	Ho	1	8831360	0.97	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\015_CCV.D\015_CCV.D#
Date Acquired:	Nov 8 2011 07:35 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.34	ppb	1.60	50	100.7	90 - 110	
51	V	72	1	49.96	ppb	0.54	50	99.9	90 - 110	
52	Cr	72	1	49.42	ppb	0.76	50	98.8	90 - 110	
55	Mn	72	1	50.64	ppb	2.02	50	101.3	90 - 110	
59	Co	72	1	50.39	ppb	1.74	50	100.8	90 - 110	
60	Ni	72	1	49.99	ppb	1.04	50	100.0	90 - 110	
63	Cu	72	1	48.63	ppb	1.60	50	97.3	90 - 110	
66	Zn	72	1	49.73	ppb	0.52	50	99.5	90 - 110	
75	As	72	1	50.08	ppb	1.25	50	100.2	90 - 110	
78	Se	72	1	52.04	ppb	3.35	50	104.1	90 - 110	
95	Mo	72	1	50.71	ppb	0.85	50	101.4	90 - 110	
107	Ag	115	1	50.11	ppb	1.42	50	100.2	90 - 110	
111	Cd	115	1	49.44	ppb	2.07	50	98.9	90 - 110	
118	Sn	115	1	47.95	ppb	0.80	50	95.9	90 - 110	
121	Sb	115	1	49.57	ppb	1.53	50	99.1	90 - 110	
137	Ba	115	1	50.88	ppb	1.97	50	101.8	90 - 110	
205	Tl	165	1	51.56	ppb	1.27	50	103.1	90 - 110	
208	Pb	165	1	50.48	ppb	0.52	50	101.0	90 - 110	
232	Th	165	1	51.47	ppb	0.61	50	102.9	90 - 110	
238	U	165	1	51.22	ppb	0.62	50	102.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	513383	0.76	534602	96.0	30 - 120	
45	Sc	1	2517785	0.24	2551677	98.7	30 - 120	
72	Ge	1	1547642	0.76	1553005	99.7	30 - 120	
115	In	1	4309535	1.36	4260602	101.1	30 - 120	
165	Ho	1	8802918	0.26	8806612	100.0	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\016_CCB.D\016_CCB.D#
Date Acquired: Nov 8 2011 07:38 pm
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	9514.00	1.00	
51	V	72	1	0.033	ppb	41.88	1.00	
52	Cr	72	1	0.015	ppb	97.42	1.00	
55	Mn	72	1	0.010	ppb	112.46	1.00	
59	Co	72	1	0.011	ppb	14.30	1.00	
60	Ni	72	1	-0.010	ppb	65.29	1.00	
63	Cu	72	1	0.001	ppb	302.28	1.00	
66	Zn	72	1	-0.010	ppb	133.96	1.00	
75	As	72	1	0.022	ppb	9.49	1.00	
78	Se	72	1	0.117	ppb	104.03	1.00	
95	Mo	72	1	0.053	ppb	25.69	1.00	
107	Ag	115	1	0.018	ppb	17.87	1.00	
111	Cd	115	1	0.013	ppb	19.04	1.00	
118	Sn	115	1	0.064	ppb	7.87	1.00	
121	Sb	115	1	0.040	ppb	7.03	1.00	
137	Ba	115	1	0.013	ppb	21.99	1.00	
205	Tl	165	1	0.025	ppb	6.09	1.00	
208	Pb	165	1	0.013	ppb	10.34	1.00	
232	Th	165	1	0.049	ppb	7.66	1.00	
238	U	165	1	0.020	ppb	3.91	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	522566	1.26	534602	97.7	30 - 120	
45	Sc	1	2535641	1.73	2551677	99.4	30 - 120	
72	Ge	1	1580821	0.86	1553005	101.8	30 - 120	
115	In	1	4303066	1.43	4260602	101.0	30 - 120	
165	Ho	1	8898335	0.46	8806612	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\017WASH.D\017WASH.D#
Date Acquired:	Nov 8 2011 07:41 pm
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.979 ppb	16.74	1.30	
51	V	72	1	5.034 ppb	0.56	6.50	
52	Cr	72	1	2.196 ppb	2.18	2.60	
55	Mn	72	1	1.246 ppb	1.38	1.30	
59	Co	72	1	1.120 ppb	0.41	1.30	
60	Ni	72	1	2.308 ppb	2.61	2.60	
63	Cu	72	1	2.232 ppb	1.07	2.60	
66	Zn	72	1	10.560 ppb	1.25	13.00	
75	As	72	1	5.253 ppb	1.19	6.50	
78	Se	72	1	5.668 ppb	9.05	6.50	
95	Mo	72	1	2.205 ppb	1.96	2.60	
107	Ag	115	1	5.215 ppb	1.00	6.50	
111	Cd	115	1	1.117 ppb	1.31	1.30	
118	Sn	115	1	9.991 ppb	2.61	13.00	
121	Sb	115	1	2.105 ppb	1.00	2.60	
137	Ba	115	1	1.162 ppb	3.44	1.30	
205	Tl	165	1	1.126 ppb	0.85	1.30	
208	Pb	165	1	1.109 ppb	1.44	1.30	
232	Th	165	1	2.106 ppb	1.34	2.60	
238	U	165	1	1.101 ppb	0.97	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	534448	0.33	534602	100.0	30 - 120	
45	Sc	1	2538647	1.37	2551677	99.5	30 - 120	
72	Ge	1	1570185	1.05	1553005	101.1	30 - 120	
115	In	1	4326908	0.38	4260602	101.6	30 - 120	
165	Ho	1	9026221	0.59	8806612	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\018_BLK.D\018_BLK.D#
Date Acquired:	Nov 8 2011 07:44 pm
Operator:	LRD
Sample Name:	mb 280-92644/1-a
Misc Info:	BLANK 92644 Soil DoD4/6020A
Vial Number:	2201
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.012 ppb	151.79	2.00	
51	V	72	1	0.037 ppb	12.28	2.00	
52	Cr	72	1	0.101 ppb	18.46	2.00	
55	Mn	72	1	0.221 ppb	4.98	2.00	
59	Co	72	1	0.008 ppb	16.08	2.00	
60	Ni	72	1	0.328 ppb	10.60	2.00	
63	Cu	72	1	0.410 ppb	4.18	2.00	
66	Zn	72	1	0.975 ppb	1.94	2.00	
75	As	72	1	0.017 ppb	34.62	2.00	
78	Se	72	1	0.059 ppb	218.07	2.00	
95	Mo	72	1	0.035 ppb	10.08	2.00	
107	Ag	115	1	0.013 ppb	12.10	2.00	
111	Cd	115	1	0.007 ppb	38.10	2.00	
118	Sn	115	1	0.099 ppb	6.29	2.00	
121	Sb	115	1	0.021 ppb	8.49	2.00	
137	Ba	115	1	0.509 ppb	2.31	2.00	
205	Tl	165	1	0.010 ppb	6.35	2.00	
208	Pb	165	1	0.035 ppb	5.32	2.00	
232	Th	165	1	0.023 ppb	6.12	2.00	
238	U	165	1	0.012 ppb	7.53	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532062	0.32	534602	99.5	30 - 120	
45	Sc	1	2607285	1.81	2551677	102.2	30 - 120	
72	Ge	1	1596260	2.14	1553005	102.8	30 - 120	
115	In	1	4398100	0.97	4260602	103.2	30 - 120	
165	Ho	1	9008031	0.63	8806612	102.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\019_LCS.D\019_LCS.D#
Date Acquired:	Nov 8 2011 07:47 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-92644/2-a
Misc Info:	LCS
Vial Number:	2202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	42.63	1.13	40	106.6	80 - 120	
51	V	72	1	42.24	2.22	40	105.6	80 - 120	
52	Cr	72	1	43.68	2.95	40	109.2	80 - 120	
55	Mn	72	1	42.63	3.11	40	106.6	80 - 120	
59	Co	72	1	42.83	2.05	40	107.1	80 - 120	
60	Ni	72	1	42.55	0.91	40	106.4	80 - 120	
63	Cu	72	1	41.57	1.91	40	103.9	80 - 120	
66	Zn	72	1	41.87	1.32	40	104.7	80 - 120	
75	As	72	1	42.21	1.51	40	105.5	80 - 120	
78	Se	72	1	42.77	5.65	40	106.9	80 - 120	
95	Mo	72	1	43.14	1.20	40	107.9	80 - 120	
107	Ag	115	1	42.51	2.54	40	106.3	80 - 120	
111	Cd	115	1	42.12	2.70	40	105.3	80 - 120	
118	Sn	115	1	40.95	0.88	40	102.4	80 - 120	
121	Sb	115	1	41.57	1.53	40	103.9	80 - 120	
137	Ba	115	1	43.36	1.22	40	108.4	80 - 120	
205	Tl	165	1	44.04	1.03	40	110.1	80 - 120	
208	Pb	165	1	42.83	1.07	40	107.1	80 - 120	
232	Th	165	1	42.59	0.21	40	106.5	80 - 120	
238	U	165	1	43.67	0.68	40	109.2	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	535943	1.55	534602	100.3	30 - 120	
45	Sc	1	2571767	0.99	2551677	100.8	30 - 120	
72	Ge	1	1592980	0.91	1553005	102.6	30 - 120	
115	In	1	4400623	1.71	4260602	103.3	30 - 120	
165	Ho	1	9001305	0.79	8806612	102.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\020SMPL.D\020SMPL.D#
Date Acquired:	Nov 8 2011 07:50 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-50-b
Misc Info:	
Vial Number:	2203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.26	0.26	ppb	9.68	3600	
51	V	72	1	16.89	16.89	ppb	0.62	3600	
52	Cr	72	1	7.83	7.83	ppb	1.19	3600	
55	Mn	72	1	51.48	51.48	ppb	2.40	18000	
59	Co	72	1	0.79	0.79	ppb	5.91	3600	
60	Ni	72	1	3.23	3.23	ppb	1.70	3600	
63	Cu	72	1	2.09	2.09	ppb	2.19	3600	
66	Zn	72	1	13.29	13.29	ppb	0.64	3600	
75	As	72	1	3.56	3.56	ppb	1.50	3600	
78	Se	72	1	1.07	1.07	ppb	19.80	3600	
95	Mo	72	1	0.60	0.60	ppb	2.41	3600	
107	Ag	115	1	0.05	0.05	ppb	17.33	3600	
111	Cd	115	1	0.04	0.04	ppb	37.70	3600	
118	Sn	115	1	0.15	0.15	ppb	6.44	3600	
121	Sb	115	1	0.04	0.04	ppb	7.68	3600	
137	Ba	115	1	6.35	6.35	ppb	2.16	3600	
205	Tl	165	1	0.11	0.11	ppb	1.36	3600	
208	Pb	165	1	11.90	11.90	ppb	0.81	3600	
232	Th	165	1	9.94	9.94	ppb	2.59	1000	
238	U	165	1	1.53	1.53	ppb	1.68	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552532	0.43	534602	103.4	30 - 120	
45	Sc	1	2697449	1.08	2551677	105.7	30 - 120	
72	Ge	1	1632659	1.66	1553005	105.1	30 - 120	
115	In	1	4391405	1.13	4260602	103.1	30 - 120	
165	Ho	1	9323203	1.20	8806612	105.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\021SMPL.D\021SMPL.D#		
Date Acquired:	Nov 8 2011 07:53 pm		
Acq. Method:	NormISIS.M	QC Summary:	
Operator:	LRD	Analytes:	Pass
Sample Name:	280-21902-a-51-f	ISTD:	Pass
Misc Info:			
Vial Number:	2204		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 07:04 pm		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	12.66	3600	
51	V	72	1	20.53	20.53	ppb	0.97	3600	
52	Cr	72	1	8.68	8.68	ppb	0.90	3600	
55	Mn	72	1	59.81	59.81	ppb	0.99	18000	
59	Co	72	1	0.91	0.91	ppb	3.03	3600	
60	Ni	72	1	3.63	3.63	ppb	3.95	3600	
63	Cu	72	1	2.06	2.06	ppb	0.91	3600	
66	Zn	72	1	13.31	13.31	ppb	0.97	3600	
75	As	72	1	4.33	4.33	ppb	1.45	3600	
78	Se	72	1	1.51	1.51	ppb	9.70	3600	
95	Mo	72	1	0.59	0.59	ppb	0.65	3600	
107	Ag	115	1	0.03	0.03	ppb	6.85	3600	
111	Cd	115	1	0.03	0.03	ppb	4.94	3600	
118	Sn	115	1	0.11	0.11	ppb	7.90	3600	
121	Sb	115	1	0.03	0.03	ppb	8.21	3600	
137	Ba	115	1	6.37	6.37	ppb	1.69	3600	
205	Tl	165	1	0.10	0.10	ppb	4.03	3600	
208	Pb	165	1	12.00	12.00	ppb	0.59	3600	
232	Th	165	1	10.32	10.32	ppb	0.59	1000	
238	U	165	1	1.61	1.61	ppb	1.03	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552047	0.96	534602	103.3	30 - 120	
45	Sc	1	2719914	1.84	2551677	106.6	30 - 120	
72	Ge	1	1650639	2.00	1553005	106.3	30 - 120	
115	In	1	4506994	0.93	4260602	105.8	30 - 120	
165	Ho	1	9275395	0.83	8806612	105.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\022SMPL.D\022SMPL.D#
Date Acquired: Nov 8 2011 07:55 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-59-b
Misc Info:
Vial Number: 2205
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.14	0.14	ppb	63.34	3600	
51 V	72	1	12.54	12.54	ppb	1.62	3600	
52 Cr	72	1	5.25	5.25	ppb	0.27	3600	
55 Mn	72	1	29.87	29.87	ppb	0.42	18000	
59 Co	72	1	0.45	0.45	ppb	3.51	3600	
60 Ni	72	1	1.84	1.84	ppb	2.69	3600	
63 Cu	72	1	2.14	2.14	ppb	0.80	3600	
66 Zn	72	1	7.67	7.67	ppb	1.25	3600	
75 As	72	1	2.87	2.87	ppb	0.12	3600	
78 Se	72	1	1.33	1.33	ppb	13.07	3600	
95 Mo	72	1	0.41	0.41	ppb	0.55	3600	
107 Ag	115	1	0.03	0.03	ppb	18.32	3600	
111 Cd	115	1	0.04	0.04	ppb	39.78	3600	
118 Sn	115	1	0.07	0.07	ppb	18.30	3600	
121 Sb	115	1	0.03	0.03	ppb	14.60	3600	
137 Ba	115	1	6.22	6.22	ppb	1.11	3600	
205 Tl	165	1	0.08	0.08	ppb	1.16	3600	
208 Pb	165	1	11.15	11.15	ppb	0.87	3600	
232 Th	165	1	8.35	8.35	ppb	1.85	1000	
238 U	165	1	1.25	1.25	ppb	0.52	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	551553	1.31	534602	103.2	30 - 120	
45 Sc	1	2721679	0.83	2551677	106.7	30 - 120	
72 Ge	1	1656734	1.00	1553005	106.7	30 - 120	
115 In	1	4508048	1.07	4260602	105.8	30 - 120	
165 Ho	1	9289618	0.45	8806612	105.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\023SMPL.D\023SMPL.D#
Date Acquired:	Nov 8 2011 07:58 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-60-d
Misc Info:	
Vial Number:	2206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.05	0.05	ppb	41.54	3600	
51	V	72	1	12.72	12.72	ppb	1.51	3600	
52	Cr	72	1	5.09	5.09	ppb	1.99	3600	
55	Mn	72	1	29.95	29.95	ppb	1.92	18000	
59	Co	72	1	0.44	0.44	ppb	2.06	3600	
60	Ni	72	1	1.80	1.80	ppb	2.08	3600	
63	Cu	72	1	1.65	1.65	ppb	3.50	3600	
66	Zn	72	1	7.06	7.06	ppb	0.63	3600	
75	As	72	1	2.77	2.77	ppb	1.31	3600	
78	Se	72	1	1.32	1.32	ppb	30.02	3600	
95	Mo	72	1	0.40	0.40	ppb	1.79	3600	
107	Ag	115	1	0.03	0.03	ppb	2.84	3600	
111	Cd	115	1	0.03	0.03	ppb	12.49	3600	
118	Sn	115	1	0.10	0.10	ppb	12.60	3600	
121	Sb	115	1	0.03	0.03	ppb	5.13	3600	
137	Ba	115	1	6.01	6.01	ppb	2.36	3600	
205	Tl	165	1	0.08	0.08	ppb	2.31	3600	
208	Pb	165	1	11.37	11.37	ppb	0.95	3600	
232	Th	165	1	9.58	9.58	ppb	0.63	1000	
238	U	165	1	1.30	1.30	ppb	1.01	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	550076	1.88	534602	102.9	30 - 120	
45	Sc	1	2709752	0.61	2551677	106.2	30 - 120	
72	Ge	1	1654173	1.25	1553005	106.5	30 - 120	
115	In	1	4544248	0.23	4260602	106.7	30 - 120	
165	Ho	1	9283591	1.35	8806612	105.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\024AREF.D\024AREF.D#
Date Acquired:	Nov 8 2011 08:01 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-61-b
Misc Info:	
Vial Number:	2207
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	7.42	3600	
51	V	72	1	16.32	16.32	ppb	4.07	3600	
52	Cr	72	1	9.28	9.28	ppb	3.07	3600	
55	Mn	72	1	39.91	39.91	ppb	2.64	18000	
59	Co	72	1	0.90	0.90	ppb	2.35	3600	
60	Ni	72	1	4.54	4.54	ppb	2.56	3600	
63	Cu	72	1	2.12	2.12	ppb	0.81	3600	
66	Zn	72	1	10.92	10.92	ppb	0.88	3600	
75	As	72	1	3.33	3.33	ppb	1.85	3600	
78	Se	72	1	1.28	1.28	ppb	9.69	3600	
95	Mo	72	1	0.44	0.44	ppb	4.93	3600	
107	Ag	115	1	0.04	0.04	ppb	7.14	3600	
111	Cd	115	1	0.06	0.06	ppb	33.98	3600	
118	Sn	115	1	0.18	0.18	ppb	2.68	3600	
121	Sb	115	1	0.02	0.02	ppb	9.50	3600	
137	Ba	115	1	10.30	10.30	ppb	2.34	3600	
205	Tl	165	1	0.10	0.10	ppb	2.04	3600	
208	Pb	165	1	8.73	8.73	ppb	3.26	3600	
232	Th	165	1	10.34	10.34	ppb	2.77	1000	
238	U	165	1	1.44	1.44	ppb	2.93	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	547000	0.47	534602	102.3	30 - 120	
45	Sc	1	2704075	0.60	2551677	106.0	30 - 120	
72	Ge	1	1641356	1.58	1553005	105.7	30 - 120	
115	In	1	4477705	0.24	4260602	105.1	30 - 120	
165	Ho	1	9268789	1.83	8806612	105.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\025SDIL.D\025SDIL.D#
Date Acquired: Nov 8 2011 08:04 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-61-b SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2208
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\024AREF.D\024AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.11	ppb	16.53	0.06	180.3	90 - 110	
51	V	72	1	3.25	ppb	2.63	3.26	99.4	90 - 110	
52	Cr	72	1	1.84	ppb	1.30	1.86	99.0	90 - 110	
55	Mn	72	1	7.86	ppb	2.78	7.98	98.5	90 - 110	
59	Co	72	1	0.19	ppb	2.17	0.18	103.1	90 - 110	
60	Ni	72	1	0.89	ppb	1.90	0.91	98.1	90 - 110	
63	Cu	72	1	0.42	ppb	6.19	0.42	98.0	90 - 110	
66	Zn	72	1	4.08	ppb	1.79	2.18	187.0	90 - 110	
75	As	72	1	0.68	ppb	0.66	0.67	101.5	90 - 110	
78	Se	72	1	0.18	ppb	113.61	0.26	69.8	90 - 110	
95	Mo	72	1	0.09	ppb	3.39	0.09	102.7	90 - 110	
107	Ag	115	1	0.01	ppb	19.13	0.01	91.0	90 - 110	
111	Cd	115	1	0.02	ppb	26.42	0.01	144.4	90 - 110	
118	Sn	115	1	0.04	ppb	19.45	0.04	113.3	90 - 110	
121	Sb	115	1	0.01	ppb	11.25	0.00	165.6	90 - 110	
137	Ba	115	1	2.07	ppb	1.36	2.06	100.4	90 - 110	
205	Tl	165	1	0.02	ppb	9.90	0.02	120.1	90 - 110	
208	Pb	165	1	1.77	ppb	0.64	1.75	101.4	90 - 110	
232	Th	165	1	2.05	ppb	1.14	2.07	99.1	90 - 110	
238	U	165	1	0.29	ppb	1.75	0.29	101.0	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551770	1.43	534602	103.2	30 - 120	
45	Sc	1	2731360	0.71	2551677	107.0	30 - 120	
72	Ge	1	1672895	0.64	1553005	107.7	30 - 120	
115	In	1	4516313	0.57	4260602	106.0	30 - 120	
165	Ho	1	9272644	0.29	8806612	105.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\026_CCV.D\026_CCV.D#
Date Acquired:	Nov 8 2011 08:07 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.80	ppb	2.20	50	103.6	90 - 110	
51	V	72	1	50.79	ppb	1.83	50	101.6	90 - 110	
52	Cr	72	1	50.27	ppb	2.19	50	100.5	90 - 110	
55	Mn	72	1	51.42	ppb	1.96	50	102.8	90 - 110	
59	Co	72	1	50.97	ppb	1.01	50	101.9	90 - 110	
60	Ni	72	1	50.21	ppb	1.40	50	100.4	90 - 110	
63	Cu	72	1	49.82	ppb	1.68	50	99.6	90 - 110	
66	Zn	72	1	49.28	ppb	0.64	50	98.6	90 - 110	
75	As	72	1	50.21	ppb	0.84	50	100.4	90 - 110	
78	Se	72	1	52.12	ppb	3.78	50	104.2	90 - 110	
95	Mo	72	1	50.51	ppb	1.35	50	101.0	90 - 110	
107	Ag	115	1	51.54	ppb	0.86	50	103.1	90 - 110	
111	Cd	115	1	50.01	ppb	0.89	50	100.0	90 - 110	
118	Sn	115	1	48.79	ppb	1.49	50	97.6	90 - 110	
121	Sb	115	1	50.04	ppb	0.83	50	100.1	90 - 110	
137	Ba	115	1	51.68	ppb	1.09	50	103.4	90 - 110	
205	Tl	165	1	51.56	ppb	1.71	50	103.1	90 - 110	
208	Pb	165	1	49.96	ppb	1.02	50	99.9	90 - 110	
232	Th	165	1	50.55	ppb	0.93	50	101.1	90 - 110	
238	U	165	1	49.71	ppb	2.48	50	99.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539437	0.91	534602	100.9	30 - 120	
45	Sc	1	2681668	1.38	2551677	105.1	30 - 120	
72	Ge	1	1644661	1.54	1553005	105.9	30 - 120	
115	In	1	4442205	0.52	4260602	104.3	30 - 120	
165	Ho	1	9091904	1.95	8806612	103.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\027_CCB.D\027_CCB.D#
Date Acquired: Nov 8 2011 08:10 pm
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	30313.00	1.00	
51	V	72	1	0.009	ppb	231.83	1.00	
52	Cr	72	1	-0.007	ppb	44.25	1.00	
55	Mn	72	1	0.005	ppb	15.26	1.00	
59	Co	72	1	0.007	ppb	5.24	1.00	
60	Ni	72	1	-0.019	ppb	49.73	1.00	
63	Cu	72	1	-0.008	ppb	82.26	1.00	
66	Zn	72	1	-0.022	ppb	72.68	1.00	
75	As	72	1	0.013	ppb	76.66	1.00	
78	Se	72	1	0.215	ppb	71.33	1.00	
95	Mo	72	1	0.022	ppb	11.65	1.00	
107	Ag	115	1	0.010	ppb	22.70	1.00	
111	Cd	115	1	0.002	ppb	103.23	1.00	
118	Sn	115	1	0.008	ppb	82.60	1.00	
121	Sb	115	1	0.016	ppb	3.57	1.00	
137	Ba	115	1	0.005	ppb	72.46	1.00	
205	Tl	165	1	0.019	ppb	5.20	1.00	
208	Pb	165	1	0.007	ppb	12.36	1.00	
232	Th	165	1	0.041	ppb	4.34	1.00	
238	U	165	1	0.009	ppb	11.39	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541315	1.07	534602	101.3	30 - 120	
45	Sc	1	2661771	0.82	2551677	104.3	30 - 120	
72	Ge	1	1629940	0.65	1553005	105.0	30 - 120	
115	In	1	4500934	1.00	4260602	105.6	30 - 120	
165	Ho	1	9070420	0.52	8806612	103.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\028WASH.D\028WASH.D#
Date Acquired:	Nov 8 2011 08:13 pm
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.149	ppb	7.59	1.30	
51	V	72	1	5.044	ppb	0.75	6.50	
52	Cr	72	1	2.176	ppb	0.63	2.60	
55	Mn	72	1	1.236	ppb	2.21	1.30	
59	Co	72	1	1.099	ppb	1.98	1.30	
60	Ni	72	1	2.214	ppb	1.52	2.60	
63	Cu	72	1	2.177	ppb	3.68	2.60	
66	Zn	72	1	10.450	ppb	0.59	13.00	
75	As	72	1	5.215	ppb	0.55	6.50	
78	Se	72	1	5.790	ppb	3.19	6.50	
95	Mo	72	1	2.208	ppb	4.26	2.60	
107	Ag	115	1	5.064	ppb	0.36	6.50	
111	Cd	115	1	1.080	ppb	2.87	1.30	
118	Sn	115	1	9.805	ppb	1.84	13.00	
121	Sb	115	1	2.088	ppb	1.30	2.60	
137	Ba	115	1	1.139	ppb	2.42	1.30	
205	Tl	165	1	1.129	ppb	0.71	1.30	
208	Pb	165	1	1.105	ppb	1.68	1.30	
232	Th	165	1	2.115	ppb	2.23	2.60	
238	U	165	1	1.083	ppb	0.56	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541533	0.89	534602	101.3	30 - 120	
45	Sc	1	2653998	1.21	2551677	104.0	30 - 120	
72	Ge	1	1651823	0.80	1553005	106.4	30 - 120	
115	In	1	4504296	0.47	4260602	105.7	30 - 120	
165	Ho	1	9060288	0.18	8806612	102.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\029PDS.D\029PDS.D#
Date Acquired:	Nov 8 2011 08:16 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-61-b PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	2209
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	213.70	0.30	ppb	1.64	200	106.7	75 - 125	
51 V	72	1	215.90	16.32	ppb	1.50	200	99.8	75 - 125	
52 Cr	72	1	209.60	9.28	ppb	1.75	200	100.2	75 - 125	
55 Mn	72	1	241.90	39.91	ppb	1.74	200	100.8	75 - 125	
59 Co	72	1	201.80	0.90	ppb	2.15	200	100.4	75 - 125	
60 Ni	72	1	214.80	4.54	ppb	0.91	200	105.0	75 - 125	
63 Cu	72	1	201.50	2.12	ppb	1.31	200	99.7	75 - 125	
66 Zn	72	1	210.80	10.92	ppb	1.06	200	99.9	75 - 125	
75 As	72	1	212.80	3.33	ppb	0.93	200	104.7	75 - 125	
78 Se	72	1	215.60	1.28	ppb	2.08	200	107.1	75 - 125	
95 Mo	72	1	212.60	0.44	ppb	1.49	200	106.1	75 - 125	
107 Ag	115	1	51.80	0.04	ppb	0.75	50	103.5	75 - 125	
111 Cd	115	1	211.60	0.06	ppb	2.14	200	105.8	75 - 125	
118 Sn	115	1	207.90	0.18	ppb	2.57	200	103.9	75 - 125	
121 Sb	115	1	209.80	0.02	ppb	1.72	200	104.9	75 - 125	
137 Ba	115	1	231.60	10.30	ppb	1.71	200	110.1	75 - 125	
205 Tl	165	1	203.80	0.10	ppb	1.44	200	101.8	75 - 125	
208 Pb	165	1	208.10	8.73	ppb	0.74	200	99.7	75 - 125	
232 Th	165	1	10.22	10.34	ppb	1.09	200	4.9	75 - 125	
238 U	165	1	199.00	1.44	ppb	1.39	200	98.8	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	551009	0.62	534602	103.1	30 - 120	
45 Sc	1	2671654	0.52	2551677	104.7	30 - 120	
72 Ge	1	1628602	0.85	1553005	104.9	30 - 120	
115 In	1	4454965	0.95	4260602	104.6	30 - 120	
165 Ho	1	9371074	0.69	8806612	106.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\030_MS.D\030_MS.D#
Date Acquired:	Nov 8 2011 08:19 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-61-c ms
Misc Info:	MATRIX SPIKE
Vial Number:	2210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	43.57	0.30	ppb	0.65	40	108.1	50 - 150	
51 V	72	1	64.87	16.32	ppb	1.56	40	115.2	50 - 150	
52 Cr	72	1	54.36	9.28	ppb	0.16	40	110.3	50 - 150	
55 Mn	72	1	95.08	39.91	ppb	1.90	40	119.0	50 - 150	
59 Co	72	1	43.75	0.90	ppb	1.06	40	107.0	50 - 150	
60 Ni	72	1	47.27	4.54	ppb	0.65	40	106.1	50 - 150	
63 Cu	72	1	42.38	2.12	ppb	0.89	40	100.6	50 - 150	
66 Zn	72	1	54.42	10.92	ppb	0.41	40	106.9	50 - 150	
75 As	72	1	44.31	3.33	ppb	0.80	40	102.3	50 - 150	
78 Se	72	1	42.30	1.28	ppb	1.90	40	102.5	50 - 150	
95 Mo	72	1	39.25	0.44	ppb	1.33	40	97.1	50 - 150	
107 Ag	115	1	41.92	0.04	ppb	0.56	40	104.7	50 - 150	
111 Cd	115	1	42.22	0.06	ppb	1.42	40	105.4	50 - 150	
118 Sn	115	1	14.07	0.18	ppb	1.44	40	35.0	50 - 150	
121 Sb	115	1	6.97	0.02	ppb	2.10	40	17.4	50 - 150	
137 Ba	115	1	55.47	10.30	ppb	1.57	40	110.3	50 - 150	
205 Tl	165	1	43.59	0.10	ppb	1.28	40	108.7	50 - 150	
208 Pb	165	1	50.37	8.73	ppb	1.14	40	103.4	50 - 150	
232 Th	165	1	54.82	10.34	ppb	1.90	40	108.9	50 - 150	
238 U	165	1	44.39	1.44	ppb	1.77	40	107.1	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	556610	0.79	534602	104.1	30 - 120	
45 Sc	1	2703654	1.48	2551677	106.0	30 - 120	
72 Ge	1	1661483	0.85	1553005	107.0	30 - 120	
115 In	1	4487818	1.23	4260602	105.3	30 - 120	
165 Ho	1	9194975	1.00	8806612	104.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\031_MSD.D\031_MSD.D#
Date Acquired: Nov 8 2011 08:22 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-61-d msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 2211
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\030_MS.D\030_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	44.88	ppb	0.18	43.57	2.96	20	
51	V	72	1	63.77	ppb	1.32	64.87	1.71	20	
52	Cr	72	1	54.68	ppb	2.07	54.36	0.59	20	
55	Mn	72	1	93.73	ppb	1.11	95.08	1.43	20	
59	Co	72	1	44.00	ppb	0.81	43.75	0.57	20	
60	Ni	72	1	47.72	ppb	0.31	47.27	0.95	20	
63	Cu	72	1	42.61	ppb	0.97	42.38	0.54	20	
66	Zn	72	1	53.73	ppb	0.59	54.42	1.28	20	
75	As	72	1	44.45	ppb	0.88	44.31	0.32	20	
78	Se	72	1	43.52	ppb	4.24	42.30	2.84	20	
95	Mo	72	1	39.45	ppb	0.14	39.25	0.51	20	
107	Ag	115	1	41.63	ppb	1.07	41.92	0.69	20	
111	Cd	115	1	42.19	ppb	0.84	42.22	0.07	20	
118	Sn	115	1	14.00	ppb	0.59	14.07	0.50	20	
121	Sb	115	1	6.55	ppb	0.79	6.97	6.20	20	
137	Ba	115	1	58.36	ppb	1.56	55.47	5.08	20	
205	Tl	165	1	42.93	ppb	0.65	43.59	1.53	20	
208	Pb	165	1	49.33	ppb	1.02	50.37	2.09	20	
232	Th	165	1	52.64	ppb	2.18	54.82	4.06	20	
238	U	165	1	43.76	ppb	1.48	44.39	1.43	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552178	0.42	534602	103.3	30 - 120	
45	Sc	1	2671501	1.57	2551677	104.7	30 - 120	
72	Ge	1	1648957	1.13	1553005	106.2	30 - 120	
115	In	1	4506349	1.14	4260602	105.8	30 - 120	
165	Ho	1	9292729	0.70	8806612	105.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\032SMPL.D\032SMPL.D#
Date Acquired: Nov 8 2011 08:24 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-63-b
Misc Info:
Vial Number: 2212
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.24	0.24	ppb	22.76	3600	
51 V	72	1	19.04	19.04	ppb	1.72	3600	
52 Cr	72	1	8.72	8.72	ppb	1.05	3600	
55 Mn	72	1	58.26	58.26	ppb	1.32	18000	
59 Co	72	1	0.80	0.80	ppb	1.03	3600	
60 Ni	72	1	3.42	3.42	ppb	1.43	3600	
63 Cu	72	1	2.49	2.49	ppb	1.43	3600	
66 Zn	72	1	15.15	15.15	ppb	0.28	3600	
75 As	72	1	4.20	4.20	ppb	2.64	3600	
78 Se	72	1	1.48	1.48	ppb	10.89	3600	
95 Mo	72	1	0.63	0.63	ppb	7.66	3600	
107 Ag	115	1	0.04	0.04	ppb	16.75	3600	
111 Cd	115	1	0.08	0.08	ppb	27.34	3600	
118 Sn	115	1	0.16	0.16	ppb	20.11	3600	
121 Sb	115	1	0.04	0.04	ppb	8.21	3600	
137 Ba	115	1	10.97	10.97	ppb	1.86	3600	
205 Tl	165	1	0.13	0.13	ppb	0.59	3600	
208 Pb	165	1	16.65	16.65	ppb	0.14	3600	
232 Th	165	1	10.59	10.59	ppb	0.52	1000	
238 U	165	1	1.58	1.58	ppb	0.29	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	551749	1.12	534602	103.2	30 - 120	
45 Sc	1	2690517	2.56	2551677	105.4	30 - 120	
72 Ge	1	1632594	0.69	1553005	105.1	30 - 120	
115 In	1	4499400	1.60	4260602	105.6	30 - 120	
165 Ho	1	9217805	0.63	8806612	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\033SMPL.D\033SMPL.D#
Date Acquired:	Nov 8 2011 08:27 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-64-d
Misc Info:	
Vial Number:	2301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	7.82	3600	
51	V	72	1	22.30	22.30	ppb	1.68	3600	
52	Cr	72	1	14.21	14.21	ppb	1.41	3600	
55	Mn	72	1	49.04	49.04	ppb	2.20	18000	
59	Co	72	1	1.48	1.48	ppb	2.36	3600	
60	Ni	72	1	6.65	6.65	ppb	1.65	3600	
63	Cu	72	1	2.18	2.18	ppb	0.96	3600	
66	Zn	72	1	14.74	14.74	ppb	0.56	3600	
75	As	72	1	5.16	5.16	ppb	2.32	3600	
78	Se	72	1	1.61	1.61	ppb	16.86	3600	
95	Mo	72	1	0.67	0.67	ppb	0.61	3600	
107	Ag	115	1	0.03	0.03	ppb	12.01	3600	
111	Cd	115	1	0.08	0.08	ppb	5.85	3600	
118	Sn	115	1	0.17	0.17	ppb	11.18	3600	
121	Sb	115	1	0.02	0.02	ppb	8.11	3600	
137	Ba	115	1	11.48	11.48	ppb	2.64	3600	
205	Tl	165	1	0.14	0.14	ppb	0.50	3600	
208	Pb	165	1	9.28	9.28	ppb	1.48	3600	
232	Th	165	1	12.47	12.47	ppb	2.27	1000	
238	U	165	1	1.73	1.73	ppb	1.13	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539929	1.30	534602	101.0	30 - 120	
45	Sc	1	2641608	0.52	2551677	103.5	30 - 120	
72	Ge	1	1631061	0.61	1553005	105.0	30 - 120	
115	In	1	4409459	1.84	4260602	103.5	30 - 120	
165	Ho	1	9097401	0.90	8806612	103.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\034SMPL.D\034SMPL.D#
Date Acquired: Nov 8 2011 08:30 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-65-d
Misc Info:
Vial Number: 2302
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.13	0.13	ppb	36.68	3600	
51	V	72	1	15.51	15.51	ppb	1.16	3600	
52	Cr	72	1	6.49	6.49	ppb	1.58	3600	
55	Mn	72	1	25.95	25.95	ppb	1.84	18000	
59	Co	72	1	0.46	0.46	ppb	0.61	3600	
60	Ni	72	1	2.28	2.28	ppb	3.95	3600	
63	Cu	72	1	2.36	2.36	ppb	1.08	3600	
66	Zn	72	1	8.09	8.09	ppb	2.59	3600	
75	As	72	1	3.02	3.02	ppb	2.63	3600	
78	Se	72	1	1.18	1.18	ppb	17.14	3600	
95	Mo	72	1	0.55	0.55	ppb	1.37	3600	
107	Ag	115	1	0.04	0.04	ppb	5.43	3600	
111	Cd	115	1	0.04	0.04	ppb	23.74	3600	
118	Sn	115	1	0.11	0.11	ppb	8.74	3600	
121	Sb	115	1	0.03	0.03	ppb	1.85	3600	
137	Ba	115	1	6.78	6.78	ppb	0.25	3600	
205	Tl	165	1	0.09	0.09	ppb	5.33	3600	
208	Pb	165	1	19.67	19.67	ppb	1.33	3600	
232	Th	165	1	8.95	8.95	ppb	3.14	1000	
238	U	165	1	1.27	1.27	ppb	1.41	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552522	1.98	534602	103.4	30 - 120	
45	Sc	1	2714996	1.21	2551677	106.4	30 - 120	
72	Ge	1	1681515	1.59	1553005	108.3	30 - 120	
115	In	1	4592082	0.90	4260602	107.8	30 - 120	
165	Ho	1	9283625	1.79	8806612	105.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\035SMPL.D\035SMPL.D#
Date Acquired: Nov 8 2011 08:33 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-66-b
Misc Info:
Vial Number: 2303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.37	0.37	ppb	18.79	3600	
51	V	72	1	24.79	24.79	ppb	2.20	3600	
52	Cr	72	1	12.13	12.13	ppb	1.69	3600	
55	Mn	72	1	33.08	33.08	ppb	1.51	18000	
59	Co	72	1	0.87	0.87	ppb	0.45	3600	
60	Ni	72	1	4.42	4.42	ppb	2.23	3600	
63	Cu	72	1	2.24	2.24	ppb	2.12	3600	
66	Zn	72	1	11.74	11.74	ppb	2.14	3600	
75	As	72	1	4.88	4.88	ppb	2.17	3600	
78	Se	72	1	1.39	1.39	ppb	19.99	3600	
95	Mo	72	1	0.78	0.78	ppb	4.93	3600	
107	Ag	115	1	0.03	0.03	ppb	6.45	3600	
111	Cd	115	1	0.04	0.04	ppb	16.54	3600	
118	Sn	115	1	0.18	0.18	ppb	3.54	3600	
121	Sb	115	1	0.02	0.02	ppb	5.18	3600	
137	Ba	115	1	10.04	10.04	ppb	2.44	3600	
205	Tl	165	1	0.12	0.12	ppb	4.88	3600	
208	Pb	165	1	15.92	15.92	ppb	1.20	3600	
232	Th	165	1	9.50	9.50	ppb	0.76	1000	
238	U	165	1	1.39	1.39	ppb	0.37	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541580	0.92	534602	101.3	30 - 120	
45	Sc	1	2714009	2.41	2551677	106.4	30 - 120	
72	Ge	1	1663985	2.05	1553005	107.1	30 - 120	
115	In	1	4509403	0.37	4260602	105.8	30 - 120	
165	Ho	1	9256710	0.74	8806612	105.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\036SMPL.D\036SMPL.D#
Date Acquired:	Nov 8 2011 08:36 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-67-d
Misc Info:	
Vial Number:	2304
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.34	0.34	ppb	36.82	3600	
51	V	72	1	25.45	25.45	ppb	1.96	3600	
52	Cr	72	1	12.87	12.87	ppb	1.73	3600	
55	Mn	72	1	56.60	56.60	ppb	1.39	18000	
59	Co	72	1	0.94	0.94	ppb	2.46	3600	
60	Ni	72	1	6.05	6.05	ppb	1.33	3600	
63	Cu	72	1	2.05	2.05	ppb	2.61	3600	
66	Zn	72	1	15.24	15.24	ppb	1.10	3600	
75	As	72	1	4.81	4.81	ppb	0.84	3600	
78	Se	72	1	1.52	1.52	ppb	29.50	3600	
95	Mo	72	1	0.75	0.75	ppb	6.10	3600	
107	Ag	115	1	0.03	0.03	ppb	10.83	3600	
111	Cd	115	1	0.06	0.06	ppb	33.54	3600	
118	Sn	115	1	0.17	0.17	ppb	6.58	3600	
121	Sb	115	1	0.02	0.02	ppb	14.18	3600	
137	Ba	115	1	9.57	9.57	ppb	0.82	3600	
205	Tl	165	1	0.12	0.12	ppb	1.55	3600	
208	Pb	165	1	14.37	14.37	ppb	1.29	3600	
232	Th	165	1	8.87	8.87	ppb	0.26	1000	
238	U	165	1	1.37	1.37	ppb	0.76	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	543840	1.07	534602	101.7	30 - 120	
45	Sc	1	2725720	1.53	2551677	106.8	30 - 120	
72	Ge	1	1658099	0.71	1553005	106.8	30 - 120	
115	In	1	4515277	1.50	4260602	106.0	30 - 120	
165	Ho	1	9194729	1.33	8806612	104.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\037_CCV.D\037_CCV.D#
Date Acquired: Nov 8 2011 08:39 pm
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.91	ppb	0.65	50	101.8	90 - 110	
51	V	72	1	49.61	ppb	1.09	50	99.2	90 - 110	
52	Cr	72	1	49.96	ppb	0.13	50	99.9	90 - 110	
55	Mn	72	1	50.65	ppb	2.21	50	101.3	90 - 110	
59	Co	72	1	50.51	ppb	1.86	50	101.0	90 - 110	
60	Ni	72	1	49.77	ppb	0.14	50	99.5	90 - 110	
63	Cu	72	1	49.92	ppb	0.35	50	99.8	90 - 110	
66	Zn	72	1	49.43	ppb	0.25	50	98.9	90 - 110	
75	As	72	1	50.02	ppb	1.12	50	100.0	90 - 110	
78	Se	72	1	52.40	ppb	0.57	50	104.8	90 - 110	
95	Mo	72	1	50.07	ppb	0.98	50	100.1	90 - 110	
107	Ag	115	1	51.26	ppb	0.99	50	102.5	90 - 110	
111	Cd	115	1	49.74	ppb	0.73	50	99.5	90 - 110	
118	Sn	115	1	47.99	ppb	0.51	50	96.0	90 - 110	
121	Sb	115	1	49.52	ppb	0.85	50	99.0	90 - 110	
137	Ba	115	1	51.24	ppb	0.63	50	102.5	90 - 110	
205	Tl	165	1	50.90	ppb	2.00	50	101.8	90 - 110	
208	Pb	165	1	49.54	ppb	0.66	50	99.1	90 - 110	
232	Th	165	1	49.60	ppb	0.98	50	99.2	90 - 110	
238	U	165	1	49.39	ppb	0.68	50	98.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540664	0.91	534602	101.1	30 - 120	
45	Sc	1	2682692	2.03	2551677	105.1	30 - 120	
72	Ge	1	1668749	0.95	1553005	107.5	30 - 120	
115	In	1	4531029	0.60	4260602	106.3	30 - 120	
165	Ho	1	9200433	0.69	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\038_CCB.D\038_CCB.D#
Date Acquired: Nov 8 2011 08:42 pm
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	115.86	1.00	
51	V	72	1	0.022	ppb	57.04	1.00	
52	Cr	72	1	-0.009	ppb	135.02	1.00	
55	Mn	72	1	0.003	ppb	10.94	1.00	
59	Co	72	1	0.004	ppb	17.10	1.00	
60	Ni	72	1	-0.012	ppb	119.87	1.00	
63	Cu	72	1	-0.004	ppb	226.94	1.00	
66	Zn	72	1	-0.014	ppb	24.90	1.00	
75	As	72	1	0.011	ppb	13.48	1.00	
78	Se	72	1	0.140	ppb	90.68	1.00	
95	Mo	72	1	0.009	ppb	58.91	1.00	
107	Ag	115	1	0.007	ppb	49.31	1.00	
111	Cd	115	1	0.004	ppb	203.33	1.00	
118	Sn	115	1	-0.004	ppb	165.17	1.00	
121	Sb	115	1	0.018	ppb	23.30	1.00	
137	Ba	115	1	0.007	ppb	43.60	1.00	
205	Tl	165	1	0.019	ppb	7.97	1.00	
208	Pb	165	1	0.009	ppb	5.78	1.00	
232	Th	165	1	0.038	ppb	0.71	1.00	
238	U	165	1	0.010	ppb	6.43	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	545004	0.13	534602	101.9	30 - 120	
45	Sc	1	2702888	1.49	2551677	105.9	30 - 120	
72	Ge	1	1673752	1.07	1553005	107.8	30 - 120	
115	In	1	4542706	1.58	4260602	106.6	30 - 120	
165	Ho	1	9252038	1.41	8806612	105.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\039WASH.D\039WASH.D#
Date Acquired: Nov 8 2011 08:45 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.128 ppb	19.90	1.30	
51	V	72	1	4.950 ppb	0.10	6.50	
52	Cr	72	1	2.161 ppb	3.38	2.60	
55	Mn	72	1	1.216 ppb	4.22	1.30	
59	Co	72	1	1.084 ppb	2.12	1.30	
60	Ni	72	1	2.265 ppb	1.95	2.60	
63	Cu	72	1	2.181 ppb	0.75	2.60	
66	Zn	72	1	10.520 ppb	1.52	13.00	
75	As	72	1	5.266 ppb	0.60	6.50	
78	Se	72	1	5.996 ppb	9.71	6.50	
95	Mo	72	1	2.205 ppb	0.80	2.60	
107	Ag	115	1	5.139 ppb	2.33	6.50	
111	Cd	115	1	1.085 ppb	1.96	1.30	
118	Sn	115	1	9.943 ppb	2.03	13.00	
121	Sb	115	1	2.111 ppb	1.49	2.60	
137	Ba	115	1	1.167 ppb	2.78	1.30	
205	Tl	165	1	1.106 ppb	0.47	1.30	
208	Pb	165	1	1.097 ppb	1.78	1.30	
232	Th	165	1	2.087 ppb	2.04	2.60	
238	U	165	1	1.068 ppb	1.43	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	545800	0.83	534602	102.1	30 - 120	
45	Sc	1	2716616	1.93	2551677	106.5	30 - 120	
72	Ge	1	1674310	0.73	1553005	107.8	30 - 120	
115	In	1	4552276	1.49	4260602	106.8	30 - 120	
165	Ho	1	9203100	0.95	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\040SMPL.D\040SMPL.D#
Date Acquired:	Nov 8 2011 08:48 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-68-d
Misc Info:	
Vial Number:	2305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.12	0.12	ppb	22.84	3600	
51	V	72	1	13.36	13.36	ppb	1.46	3600	
52	Cr	72	1	5.31	5.31	ppb	1.22	3600	
55	Mn	72	1	26.62	26.62	ppb	1.11	18000	
59	Co	72	1	0.40	0.40	ppb	5.03	3600	
60	Ni	72	1	2.06	2.06	ppb	0.68	3600	
63	Cu	72	1	2.24	2.24	ppb	1.20	3600	
66	Zn	72	1	9.16	9.16	ppb	0.61	3600	
75	As	72	1	2.81	2.81	ppb	0.35	3600	
78	Se	72	1	1.66	1.66	ppb	10.77	3600	
95	Mo	72	1	0.46	0.46	ppb	0.72	3600	
107	Ag	115	1	0.04	0.04	ppb	11.28	3600	
111	Cd	115	1	0.03	0.03	ppb	36.59	3600	
118	Sn	115	1	0.11	0.11	ppb	5.76	3600	
121	Sb	115	1	0.03	0.03	ppb	2.75	3600	
137	Ba	115	1	5.98	5.98	ppb	0.80	3600	
205	Tl	165	1	0.10	0.10	ppb	0.68	3600	
208	Pb	165	1	13.57	13.57	ppb	0.91	3600	
232	Th	165	1	11.51	11.51	ppb	1.90	1000	
238	U	165	1	1.56	1.56	ppb	1.67	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	553912	0.56	534602	103.6	30 - 120	
45	Sc	1	2786191	0.52	2551677	109.2	30 - 120	
72	Ge	1	1695225	0.16	1553005	109.2	30 - 120	
115	In	1	4590377	1.25	4260602	107.7	30 - 120	
165	Ho	1	9312750	0.51	8806612	105.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\041SMPL.D\041SMPL.D#
Date Acquired: Nov 8 2011 08:51 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-69-d
Misc Info:
Vial Number: 2306
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.21	0.21	ppb	34.05	3600	
51	V	72	1	24.31	24.31	ppb	1.61	3600	
52	Cr	72	1	11.52	11.52	ppb	2.07	3600	
55	Mn	72	1	36.67	36.67	ppb	1.80	18000	
59	Co	72	1	0.91	0.91	ppb	1.35	3600	
60	Ni	72	1	4.31	4.31	ppb	0.82	3600	
63	Cu	72	1	1.81	1.81	ppb	2.17	3600	
66	Zn	72	1	12.36	12.36	ppb	0.45	3600	
75	As	72	1	4.63	4.63	ppb	0.54	3600	
78	Se	72	1	1.35	1.35	ppb	32.38	3600	
95	Mo	72	1	0.69	0.69	ppb	6.21	3600	
107	Ag	115	1	0.04	0.04	ppb	6.55	3600	
111	Cd	115	1	0.04	0.04	ppb	38.40	3600	
118	Sn	115	1	0.21	0.21	ppb	8.08	3600	
121	Sb	115	1	0.02	0.02	ppb	12.69	3600	
137	Ba	115	1	8.37	8.37	ppb	1.30	3600	
205	Tl	165	1	0.14	0.14	ppb	1.80	3600	
208	Pb	165	1	13.10	13.10	ppb	1.38	3600	
232	Th	165	1	8.21	8.21	ppb	1.30	1000	
238	U	165	1	1.22	1.22	ppb	0.65	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	554659	0.46	534602	103.8	30 - 120	
45	Sc	1	2729769	0.97	2551677	107.0	30 - 120	
72	Ge	1	1689450	0.52	1553005	108.8	30 - 120	
115	In	1	4553268	0.86	4260602	106.9	30 - 120	
165	Ho	1	9376804	1.60	8806612	106.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\042SMPL.D\042SMPL.D#
Date Acquired:	Nov 8 2011 08:53 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-70-b
Misc Info:	
Vial Number:	2307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.19	0.19	ppb	4.12	3600	
51	V	72	1	16.33	16.33	ppb	1.34	3600	
52	Cr	72	1	7.33	7.33	ppb	1.35	3600	
55	Mn	72	1	37.03	37.03	ppb	1.36	18000	
59	Co	72	1	0.58	0.58	ppb	1.76	3600	
60	Ni	72	1	2.54	2.54	ppb	3.81	3600	
63	Cu	72	1	1.90	1.90	ppb	3.36	3600	
66	Zn	72	1	7.07	7.07	ppb	0.47	3600	
75	As	72	1	3.09	3.09	ppb	2.33	3600	
78	Se	72	1	1.33	1.33	ppb	16.35	3600	
95	Mo	72	1	0.92	0.92	ppb	3.78	3600	
107	Ag	115	1	0.02	0.02	ppb	8.77	3600	
111	Cd	115	1	0.02	0.02	ppb	48.78	3600	
118	Sn	115	1	0.09	0.09	ppb	29.65	3600	
121	Sb	115	1	0.03	0.03	ppb	6.22	3600	
137	Ba	115	1	4.93	4.93	ppb	1.80	3600	
205	Tl	165	1	0.09	0.09	ppb	0.17	3600	
208	Pb	165	1	21.65	21.65	ppb	1.68	3600	
232	Th	165	1	10.50	10.50	ppb	1.20	1000	
238	U	165	1	1.72	1.72	ppb	0.65	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	546263	0.55	534602	102.2	30 - 120	
45	Sc	1	2739426	1.02	2551677	107.4	30 - 120	
72	Ge	1	1687937	0.77	1553005	108.7	30 - 120	
115	In	1	4544249	0.62	4260602	106.7	30 - 120	
165	Ho	1	9332410	1.53	8806612	106.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\043SMPL.D\043SMPL.D#
Date Acquired:	Nov 8 2011 08:56 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-71-b
Misc Info:	
Vial Number:	2308
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.41	0.41	ppb	32.24	3600	
51	V	72	1	27.08	27.08	ppb	2.04	3600	
52	Cr	72	1	16.62	16.62	ppb	1.78	3600	
55	Mn	72	1	64.28	64.28	ppb	0.63	18000	
59	Co	72	1	1.97	1.97	ppb	1.15	3600	
60	Ni	72	1	7.85	7.85	ppb	1.49	3600	
63	Cu	72	1	3.00	3.00	ppb	1.29	3600	
66	Zn	72	1	15.47	15.47	ppb	1.13	3600	
75	As	72	1	5.48	5.48	ppb	1.29	3600	
78	Se	72	1	1.43	1.43	ppb	18.68	3600	
95	Mo	72	1	1.34	1.34	ppb	1.64	3600	
107	Ag	115	1	0.02	0.02	ppb	5.15	3600	
111	Cd	115	1	0.05	0.05	ppb	39.99	3600	
118	Sn	115	1	0.19	0.19	ppb	4.28	3600	
121	Sb	115	1	0.02	0.02	ppb	8.87	3600	
137	Ba	115	1	8.74	8.74	ppb	0.61	3600	
205	Tl	165	1	0.12	0.12	ppb	1.84	3600	
208	Pb	165	1	14.86	14.86	ppb	1.30	3600	
232	Th	165	1	13.22	13.22	ppb	1.93	1000	
238	U	165	1	1.86	1.86	ppb	0.73	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540739	0.48	534602	101.1	30 - 120	
45	Sc	1	2745142	1.69	2551677	107.6	30 - 120	
72	Ge	1	1672350	1.15	1553005	107.7	30 - 120	
115	In	1	4538153	0.78	4260602	106.5	30 - 120	
165	Ho	1	9216785	1.15	8806612	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\044SMPL.D\044SMPL.D#
Date Acquired: Nov 8 2011 08:59 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-72-d
Misc Info:
Vial Number: 2309
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.19	0.19	ppb	27.11	3600	
51	V	72	1	21.27	21.27	ppb	1.35	3600	
52	Cr	72	1	8.99	8.99	ppb	1.68	3600	
55	Mn	72	1	28.32	28.32	ppb	1.21	18000	
59	Co	72	1	0.57	0.57	ppb	2.86	3600	
60	Ni	72	1	2.43	2.43	ppb	1.35	3600	
63	Cu	72	1	1.84	1.84	ppb	0.84	3600	
66	Zn	72	1	8.31	8.31	ppb	1.70	3600	
75	As	72	1	3.84	3.84	ppb	2.70	3600	
78	Se	72	1	1.17	1.17	ppb	26.63	3600	
95	Mo	72	1	1.13	1.13	ppb	3.03	3600	
107	Ag	115	1	0.03	0.03	ppb	5.10	3600	
111	Cd	115	1	0.02	0.02	ppb	39.92	3600	
118	Sn	115	1	0.18	0.18	ppb	5.31	3600	
121	Sb	115	1	0.02	0.02	ppb	6.53	3600	
137	Ba	115	1	4.86	4.86	ppb	0.37	3600	
205	Tl	165	1	0.11	0.11	ppb	2.09	3600	
208	Pb	165	1	28.09	28.09	ppb	0.78	3600	
232	Th	165	1	10.23	10.23	ppb	0.84	1000	
238	U	165	1	1.47	1.47	ppb	0.29	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	537253	1.16	534602	100.5	30 - 120	
45	Sc	1	2698291	2.39	2551677	105.7	30 - 120	
72	Ge	1	1652411	0.99	1553005	106.4	30 - 120	
115	In	1	4551311	0.51	4260602	106.8	30 - 120	
165	Ho	1	9130434	0.41	8806612	103.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\045SMPL.D\045SMPL.D#
Date Acquired: Nov 8 2011 09:02 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-73-b
Misc Info:
Vial Number: 2310
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.28	0.28	ppb	30.87	3600	
51	V	72	1	25.98	25.98	ppb	1.13	3600	
52	Cr	72	1	14.52	14.52	ppb	0.37	3600	
55	Mn	72	1	39.63	39.63	ppb	0.97	18000	
59	Co	72	1	1.20	1.20	ppb	1.15	3600	
60	Ni	72	1	5.40	5.40	ppb	1.52	3600	
63	Cu	72	1	3.03	3.03	ppb	1.25	3600	
66	Zn	72	1	13.02	13.02	ppb	0.38	3600	
75	As	72	1	4.36	4.36	ppb	0.31	3600	
78	Se	72	1	1.33	1.33	ppb	7.60	3600	
95	Mo	72	1	0.98	0.98	ppb	6.26	3600	
107	Ag	115	1	0.03	0.03	ppb	10.10	3600	
111	Cd	115	1	0.05	0.05	ppb	33.13	3600	
118	Sn	115	1	0.19	0.19	ppb	2.67	3600	
121	Sb	115	1	0.01	0.01	ppb	22.80	3600	
137	Ba	115	1	7.22	7.22	ppb	1.25	3600	
205	Tl	165	1	0.13	0.13	ppb	2.32	3600	
208	Pb	165	1	21.29	21.29	ppb	0.41	3600	
232	Th	165	1	10.52	10.52	ppb	0.70	1000	
238	U	165	1	1.57	1.57	ppb	0.43	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539841	0.84	534602	101.0	30 - 120	
45	Sc	1	2698470	1.09	2551677	105.8	30 - 120	
72	Ge	1	1658631	0.69	1553005	106.8	30 - 120	
115	In	1	4529103	1.49	4260602	106.3	30 - 120	
165	Ho	1	9199313	0.20	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\046SMPL.D\046SMPL.D#
Date Acquired:	Nov 8 2011 09:05 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-74-b
Misc Info:	
Vial Number:	2311
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.18	0.18	ppb	27.04	3600	
51	V	72	1	18.08	18.08	ppb	0.55	3600	
52	Cr	72	1	8.40	8.40	ppb	0.47	3600	
55	Mn	72	1	34.69	34.69	ppb	0.75	18000	
59	Co	72	1	0.64	0.64	ppb	1.95	3600	
60	Ni	72	1	2.72	2.72	ppb	2.81	3600	
63	Cu	72	1	1.39	1.39	ppb	2.53	3600	
66	Zn	72	1	8.92	8.92	ppb	1.33	3600	
75	As	72	1	3.30	3.30	ppb	1.77	3600	
78	Se	72	1	1.13	1.13	ppb	31.57	3600	
95	Mo	72	1	0.61	0.61	ppb	2.49	3600	
107	Ag	115	1	0.03	0.03	ppb	10.41	3600	
111	Cd	115	1	0.03	0.03	ppb	18.75	3600	
118	Sn	115	1	0.16	0.16	ppb	1.79	3600	
121	Sb	115	1	0.02	0.02	ppb	6.70	3600	
137	Ba	115	1	5.47	5.47	ppb	1.07	3600	
205	Tl	165	1	0.10	0.10	ppb	2.83	3600	
208	Pb	165	1	19.31	19.31	ppb	0.98	3600	
232	Th	165	1	9.41	9.41	ppb	0.77	1000	
238	U	165	1	1.31	1.31	ppb	0.48	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	548000	1.20	534602	102.5	30 - 120	
45	Sc	1	2720835	1.84	2551677	106.6	30 - 120	
72	Ge	1	1686707	0.90	1553005	108.6	30 - 120	
115	In	1	4529218	0.15	4260602	106.3	30 - 120	
165	Ho	1	9200643	0.73	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\047SMPL.D\047SMPL.D#
Date Acquired:	Nov 8 2011 09:08 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-75-d
Misc Info:	
Vial Number:	2312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.41	0.41	ppb	14.59	3600	
51	V	72	1	19.38	19.38	ppb	0.60	3600	
52	Cr	72	1	12.68	12.68	ppb	0.79	3600	
55	Mn	72	1	41.93	41.93	ppb	2.27	18000	
59	Co	72	1	1.35	1.35	ppb	1.66	3600	
60	Ni	72	1	5.54	5.54	ppb	0.22	3600	
63	Cu	72	1	2.15	2.15	ppb	0.96	3600	
66	Zn	72	1	11.98	11.98	ppb	0.88	3600	
75	As	72	1	3.98	3.98	ppb	1.67	3600	
78	Se	72	1	1.26	1.26	ppb	18.66	3600	
95	Mo	72	1	0.55	0.55	ppb	7.84	3600	
107	Ag	115	1	0.02	0.02	ppb	8.54	3600	
111	Cd	115	1	0.05	0.05	ppb	21.62	3600	
118	Sn	115	1	0.13	0.13	ppb	4.13	3600	
121	Sb	115	1	0.01	0.01	ppb	21.16	3600	
137	Ba	115	1	6.91	6.91	ppb	0.36	3600	
205	Tl	165	1	0.11	0.11	ppb	2.72	3600	
208	Pb	165	1	8.69	8.69	ppb	0.28	3600	
232	Th	165	1	9.43	9.43	ppb	0.46	1000	
238	U	165	1	1.59	1.59	ppb	0.89	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	537887	0.35	534602	100.6	30 - 120	
45	Sc	1	2769404	0.89	2551677	108.5	30 - 120	
72	Ge	1	1683640	0.76	1553005	108.4	30 - 120	
115	In	1	4560845	0.60	4260602	107.0	30 - 120	
165	Ho	1	9254690	0.39	8806612	105.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\048_CCV.D\048_CCV.D#
Date Acquired:	Nov 8 2011 09:11 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.84	ppb	2.45	50	103.7	90 - 110	
51	V	72	1	51.40	ppb	1.56	50	102.8	90 - 110	
52	Cr	72	1	50.58	ppb	0.92	50	101.2	90 - 110	
55	Mn	72	1	51.19	ppb	2.85	50	102.4	90 - 110	
59	Co	72	1	50.88	ppb	2.53	50	101.8	90 - 110	
60	Ni	72	1	50.36	ppb	1.17	50	100.7	90 - 110	
63	Cu	72	1	50.39	ppb	2.77	50	100.8	90 - 110	
66	Zn	72	1	49.83	ppb	1.50	50	99.7	90 - 110	
75	As	72	1	50.54	ppb	1.51	50	101.1	90 - 110	
78	Se	72	1	52.62	ppb	3.09	50	105.2	90 - 110	
95	Mo	72	1	50.47	ppb	1.12	50	100.9	90 - 110	
107	Ag	115	1	50.07	ppb	1.96	50	100.1	90 - 110	
111	Cd	115	1	49.31	ppb	2.37	50	98.6	90 - 110	
118	Sn	115	1	48.22	ppb	2.39	50	96.4	90 - 110	
121	Sb	115	1	49.04	ppb	1.86	50	98.1	90 - 110	
137	Ba	115	1	50.95	ppb	2.31	50	101.9	90 - 110	
205	Tl	165	1	51.19	ppb	0.92	50	102.4	90 - 110	
208	Pb	165	1	49.35	ppb	0.32	50	98.7	90 - 110	
232	Th	165	1	49.98	ppb	1.16	50	100.0	90 - 110	
238	U	165	1	49.17	ppb	0.93	50	98.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	533410	1.32	534602	99.8	30 - 120	
45	Sc	1	2718448	2.02	2551677	106.5	30 - 120	
72	Ge	1	1664700	1.71	1553005	107.2	30 - 120	
115	In	1	4592939	2.29	4260602	107.8	30 - 120	
165	Ho	1	9189680	0.53	8806612	104.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\049_CCB.D\049_CCB.D#
Date Acquired: Nov 8 2011 09:14 pm
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	152.34	1.00	
51	V	72	1	0.021	ppb	25.73	1.00	
52	Cr	72	1	0.003	ppb	329.70	1.00	
55	Mn	72	1	0.009	ppb	72.00	1.00	
59	Co	72	1	0.006	ppb	14.43	1.00	
60	Ni	72	1	-0.015	ppb	45.01	1.00	
63	Cu	72	1	-0.005	ppb	106.83	1.00	
66	Zn	72	1	-0.017	ppb	50.20	1.00	
75	As	72	1	0.012	ppb	119.53	1.00	
78	Se	72	1	0.236	ppb	110.57	1.00	
95	Mo	72	1	0.013	ppb	32.01	1.00	
107	Ag	115	1	0.008	ppb	18.15	1.00	
111	Cd	115	1	0.002	ppb	261.29	1.00	
118	Sn	115	1	-0.012	ppb	114.03	1.00	
121	Sb	115	1	0.013	ppb	19.03	1.00	
137	Ba	115	1	0.004	ppb	63.65	1.00	
205	Tl	165	1	0.009	ppb	16.05	1.00	
208	Pb	165	1	0.006	ppb	12.36	1.00	
232	Th	165	1	0.031	ppb	7.20	1.00	
238	U	165	1	0.008	ppb	18.76	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541763	0.90	534602	101.3	30 - 120	
45	Sc	1	2793727	2.42	2551677	109.5	30 - 120	
72	Ge	1	1676006	1.61	1553005	107.9	30 - 120	
115	In	1	4663291	1.35	4260602	109.5	30 - 120	
165	Ho	1	9184510	0.90	8806612	104.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\050WASH.D\050WASH.D#
Date Acquired: Nov 8 2011 09:17 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.101 ppb	24.13	1.30	
51	V	72	1	5.144 ppb	3.97	6.50	
52	Cr	72	1	2.211 ppb	4.04	2.60	
55	Mn	72	1	1.228 ppb	2.82	1.30	
59	Co	72	1	1.111 ppb	0.65	1.30	
60	Ni	72	1	2.293 ppb	1.91	2.60	
63	Cu	72	1	2.230 ppb	2.91	2.60	
66	Zn	72	1	10.590 ppb	1.34	13.00	
75	As	72	1	5.299 ppb	2.98	6.50	
78	Se	72	1	5.768 ppb	7.26	6.50	
95	Mo	72	1	2.210 ppb	1.67	2.60	
107	Ag	115	1	5.173 ppb	1.26	6.50	
111	Cd	115	1	1.136 ppb	1.39	1.30	
118	Sn	115	1	9.920 ppb	1.05	13.00	
121	Sb	115	1	2.126 ppb	1.00	2.60	
137	Ba	115	1	1.139 ppb	0.67	1.30	
205	Tl	165	1	1.119 ppb	0.26	1.30	
208	Pb	165	1	1.091 ppb	0.90	1.30	
232	Th	165	1	2.098 ppb	0.64	2.60	
238	U	165	1	1.069 ppb	0.23	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540475	1.40	534602	101.1	30 - 120	
45	Sc	1	2712641	1.80	2551677	106.3	30 - 120	
72	Ge	1	1666801	2.00	1553005	107.3	30 - 120	
115	In	1	4534304	1.01	4260602	106.4	30 - 120	
165	Ho	1	9155785	0.73	8806612	104.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\051_BLK.D\051_BLK.D#
Date Acquired:	Nov 8 2011 09:20 pm
Operator:	LRD
Sample Name:	mb 280-95210/1-a
Misc Info:	BLANK 95210 Soil DoD4/6020A
Vial Number:	3306
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.008 ppb	0.57	2.00	
51	V	72	1	0.011 ppb	61.69	2.00	
52	Cr	72	1	0.095 ppb	4.65	2.00	
55	Mn	72	1	0.099 ppb	13.77	2.00	
59	Co	72	1	0.004 ppb	59.21	2.00	
60	Ni	72	1	0.059 ppb	12.06	2.00	
63	Cu	72	1	0.056 ppb	14.08	2.00	
66	Zn	72	1	0.132 ppb	8.50	2.00	
75	As	72	1	0.008 ppb	60.40	2.00	
78	Se	72	1	0.325 ppb	23.15	2.00	
95	Mo	72	1	0.007 ppb	15.31	2.00	
107	Ag	115	1	0.005 ppb	24.06	2.00	
111	Cd	115	1	0.004 ppb	23.95	2.00	
118	Sn	115	1	0.055 ppb	11.08	2.00	
121	Sb	115	1	0.006 ppb	26.89	2.00	
137	Ba	115	1	0.048 ppb	6.70	2.00	
205	Tl	165	1	0.005 ppb	2.21	2.00	
208	Pb	165	1	0.014 ppb	7.95	2.00	
232	Th	165	1	0.019 ppb	14.35	2.00	
238	U	165	1	0.004 ppb	2.07	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551609	0.38	534602	103.2	30 - 120	
45	Sc	1	2797734	1.46	2551677	109.6	30 - 120	
72	Ge	1	1696242	0.39	1553005	109.2	30 - 120	
115	In	1	4656460	1.24	4260602	109.3	30 - 120	
165	Ho	1	9369119	1.26	8806612	106.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\052_LCS.D\052_LCS.D#
Date Acquired:	Nov 8 2011 09:23 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-95210/2-a
Misc Info:	LCS
Vial Number:	3307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.78	1.47	40	102.0	80 - 120	
51	V	72	1	39.91	2.46	40	99.8	80 - 120	
52	Cr	72	1	40.56	1.81	40	101.4	80 - 120	
55	Mn	72	1	40.01	1.80	40	100.0	80 - 120	
59	Co	72	1	39.77	1.22	40	99.4	80 - 120	
60	Ni	72	1	39.48	0.46	40	98.7	80 - 120	
63	Cu	72	1	39.07	0.60	40	97.7	80 - 120	
66	Zn	72	1	38.15	0.74	40	95.4	80 - 120	
75	As	72	1	39.63	0.99	40	99.1	80 - 120	
78	Se	72	1	40.05	1.84	40	100.1	80 - 120	
95	Mo	72	1	39.38	0.87	40	98.5	80 - 120	
107	Ag	115	1	39.02	0.53	40	97.6	80 - 120	
111	Cd	115	1	38.80	0.23	40	97.0	80 - 120	
118	Sn	115	1	37.78	0.58	40	94.5	80 - 120	
121	Sb	115	1	37.83	0.41	40	94.6	80 - 120	
137	Ba	115	1	39.75	0.53	40	99.4	80 - 120	
205	Tl	165	1	40.60	0.71	40	101.5	80 - 120	
208	Pb	165	1	39.67	1.19	40	99.2	80 - 120	
232	Th	165	1	39.87	0.80	40	99.7	80 - 120	
238	U	165	1	39.79	1.10	40	99.5	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	547125	0.71	534602	102.3	30 - 120	
45	Sc	1	2771230	0.46	2551677	108.6	30 - 120	
72	Ge	1	1674436	0.44	1553005	107.8	30 - 120	
115	In	1	4653895	0.21	4260602	109.2	30 - 120	
165	Ho	1	9198222	0.83	8806612	104.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Labratory Control Spike Duplicate Sample (LCSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\053LCSD.D\053LCSD.D#
Date Acquired:	Nov 8 2011 09:26 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcsd 280-95210/3-a
Misc Info:	LCSD
Vial Number:	3308
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\052_LCS.D\052_LCS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9	Be	6	1	40.14	ppb	1.24	40.78	1.58	2000	
51	V	72	1	39.76	ppb	1.69	39.91	0.38	2000	
52	Cr	72	1	40.34	ppb	0.78	40.56	0.54	2000	
55	Mn	72	1	39.94	ppb	1.09	40.01	0.18	2000	
59	Co	72	1	40.33	ppb	1.78	39.77	1.40	2000	
60	Ni	72	1	39.44	ppb	1.54	39.48	0.10	2000	
63	Cu	72	1	38.81	ppb	1.28	39.07	0.67	2000	
66	Zn	72	1	38.43	ppb	1.37	38.15	0.73	2000	
75	As	72	1	39.62	ppb	0.62	39.63	0.03	2000	
78	Se	72	1	42.05	ppb	1.43	40.05	4.87	2000	
95	Mo	72	1	39.11	ppb	1.28	39.38	0.69	2000	
107	Ag	115	1	40.36	ppb	1.87	39.02	3.38	2000	
111	Cd	115	1	39.19	ppb	0.61	38.80	1.00	2000	
118	Sn	115	1	37.66	ppb	1.01	37.78	0.32	2000	
121	Sb	115	1	37.95	ppb	0.30	37.83	0.32	2000	
137	Ba	115	1	40.64	ppb	0.56	39.75	2.21	2000	
205	Tl	165	1	40.66	ppb	0.51	40.60	0.15	2000	
208	Pb	165	1	39.05	ppb	0.34	39.67	1.58	2000	
232	Th	165	1	39.10	ppb	1.16	39.87	1.95	2000	
238	U	165	1	39.07	ppb	0.33	39.79	1.83	2000	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	555334	0.58	534602	103.9	30 - 120	
45	Sc	1	2746480	1.29	2551677	107.6	30 - 120	
72	Ge	1	1692451	0.96	1553005	109.0	30 - 120	
115	In	1	4638954	0.41	4260602	108.9	30 - 120	
165	Ho	1	9354473	0.41	8806612	106.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\054AREF.D\054AREF.D#
Date Acquired: Nov 8 2011 09:29 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-53-h
Misc Info:
Vial Number: 3309
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.47	0.47	ppb	5.19	3600	
51	V	72	1	30.32	30.32	ppb	0.37	3600	
52	Cr	72	1	15.81	15.81	ppb	0.39	3600	
55	Mn	72	1	292.60	292.60	ppb	0.53	18000	
59	Co	72	1	1.73	1.73	ppb	1.77	3600	
60	Ni	72	1	7.04	7.04	ppb	1.90	3600	
63	Cu	72	1	8.78	8.78	ppb	1.17	3600	
66	Zn	72	1	41.36	41.36	ppb	0.35	3600	
75	As	72	1	6.25	6.25	ppb	1.69	3600	
78	Se	72	1	1.88	1.88	ppb	8.37	3600	
95	Mo	72	1	1.39	1.39	ppb	1.52	3600	
107	Ag	115	1	0.11	0.11	ppb	4.01	3600	
111	Cd	115	1	0.63	0.63	ppb	1.75	3600	
118	Sn	115	1	0.14	0.14	ppb	0.84	3600	
121	Sb	115	1	0.07	0.07	ppb	7.61	3600	
137	Ba	115	1	20.19	20.19	ppb	1.08	3600	
205	Tl	165	1	0.22	0.22	ppb	2.29	3600	
208	Pb	165	1	38.61	38.61	ppb	1.32	3600	
232	Th	165	1	12.02	12.02	ppb	2.02	1000	
238	U	165	1	2.53	2.53	ppb	1.44	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	547023	0.79	534602	102.3	30 - 120	
45	Sc	1	2742038	0.72	2551677	107.5	30 - 120	
72	Ge	1	1695512	0.56	1553005	109.2	30 - 120	
115	In	1	4539400	1.33	4260602	106.5	30 - 120	
165	Ho	1	9237457	0.87	8806612	104.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\055SDIL.D\055SDIL.D#
Date Acquired: Nov 8 2011 09:32 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-53-h SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3310
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\054AREF.D\054AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.11	ppb	13.08	0.09	115.0	90 - 110	
51	V	72	1	5.93	ppb	2.84	6.06	97.8	90 - 110	
52	Cr	72	1	3.14	ppb	1.23	3.16	99.2	90 - 110	
55	Mn	72	1	60.19	ppb	1.85	58.52	102.9	90 - 110	
59	Co	72	1	0.35	ppb	0.96	0.35	102.1	90 - 110	
60	Ni	72	1	1.39	ppb	1.51	1.41	98.9	90 - 110	
63	Cu	72	1	1.73	ppb	1.22	1.76	98.3	90 - 110	
66	Zn	72	1	8.22	ppb	0.59	8.27	99.4	90 - 110	
75	As	72	1	1.21	ppb	3.03	1.25	97.1	90 - 110	
78	Se	72	1	0.36	ppb	37.67	0.38	96.8	90 - 110	
95	Mo	72	1	0.26	ppb	7.27	0.28	93.1	90 - 110	
107	Ag	115	1	0.02	ppb	3.93	0.02	94.3	90 - 110	
111	Cd	115	1	0.12	ppb	10.06	0.13	94.4	90 - 110	
118	Sn	115	1	0.14	ppb	6.62	0.03	478.9	90 - 110	
121	Sb	115	1	0.02	ppb	8.24	0.01	127.8	90 - 110	
137	Ba	115	1	3.80	ppb	0.78	4.04	94.1	90 - 110	
205	Tl	165	1	0.05	ppb	5.42	0.04	103.5	90 - 110	
208	Pb	165	1	7.58	ppb	0.70	7.72	98.1	90 - 110	
232	Th	165	1	2.36	ppb	1.88	2.40	98.0	90 - 110	
238	U	165	1	0.50	ppb	1.25	0.51	98.8	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	544489	0.38	534602	101.8	30 - 120	
45	Sc	1	2771427	0.81	2551677	108.6	30 - 120	
72	Ge	1	1706128	0.35	1553005	109.9	30 - 120	
115	In	1	4663128	1.56	4260602	109.4	30 - 120	
165	Ho	1	9230419	1.29	8806612	104.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\056PDS.D\056PDS.D#
Date Acquired:	Nov 8 2011 09:34 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-53-h PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3311
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	220.10	0.47	ppb	0.92	200	109.8	75 - 125	
51 V	72	1	234.00	30.32	ppb	1.47	200	101.6	75 - 125	
52 Cr	72	1	219.90	15.81	ppb	0.98	200	101.9	75 - 125	
55 Mn	72	1	499.80	292.60	ppb	1.00	200	101.5	75 - 125	
59 Co	72	1	206.70	1.73	ppb	1.36	200	102.5	75 - 125	
60 Ni	72	1	221.30	7.04	ppb	1.77	200	106.9	75 - 125	
63 Cu	72	1	211.50	8.78	ppb	0.39	200	101.3	75 - 125	
66 Zn	72	1	243.00	41.36	ppb	0.52	200	100.7	75 - 125	
75 As	72	1	220.70	6.25	ppb	0.78	200	107.0	75 - 125	
78 Se	72	1	221.20	1.88	ppb	0.96	200	109.6	75 - 125	
95 Mo	72	1	218.40	1.39	ppb	2.64	200	108.4	75 - 125	
107 Ag	115	1	52.61	0.11	ppb	1.40	50	105.0	75 - 125	
111 Cd	115	1	217.70	0.63	ppb	2.79	200	108.5	75 - 125	
118 Sn	115	1	209.60	0.14	ppb	0.37	200	104.7	75 - 125	
121 Sb	115	1	211.40	0.07	ppb	1.81	200	105.7	75 - 125	
137 Ba	115	1	244.50	20.19	ppb	0.86	200	111.0	75 - 125	
205 Tl	165	1	208.00	0.22	ppb	0.11	200	103.9	75 - 125	
208 Pb	165	1	240.90	38.61	ppb	1.29	200	101.0	75 - 125	
232 Th	165	1	12.23	12.02	ppb	0.72	200	5.8	75 - 125	
238 U	165	1	204.50	2.53	ppb	1.29	200	101.0	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	544138	1.41	534602	101.8	30 - 120	
45 Sc	1	2711673	1.09	2551677	106.3	30 - 120	
72 Ge	1	1665998	1.36	1553005	107.3	30 - 120	
115 In	1	4513049	0.87	4260602	105.9	30 - 120	
165 Ho	1	9230485	0.47	8806612	104.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\057_MS.D\057_MS.D#
Date Acquired: Nov 8 2011 09:37 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-53-i ms
Misc Info: MATRIX SPIKE
Vial Number: 3312
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	40.98	0.47	ppb	1.96	40	101.3	50 - 150	
51	V	72	1	70.39	30.32	ppb	2.10	40	100.1	50 - 150	
52	Cr	72	1	54.34	15.81	ppb	1.31	40	97.4	50 - 150	
55	Mn	72	1	314.50	292.60	ppb	0.74	40	94.6	50 - 150	
59	Co	72	1	40.90	1.73	ppb	1.78	40	98.0	50 - 150	
60	Ni	72	1	45.85	7.04	ppb	1.75	40	97.5	50 - 150	
63	Cu	72	1	46.93	8.78	ppb	1.60	40	96.2	50 - 150	
66	Zn	72	1	78.62	41.36	ppb	0.78	40	96.6	50 - 150	
75	As	72	1	43.66	6.25	ppb	1.65	40	94.4	50 - 150	
78	Se	72	1	40.98	1.88	ppb	2.37	40	97.8	50 - 150	
95	Mo	72	1	36.69	1.39	ppb	1.49	40	88.6	50 - 150	
107	Ag	115	1	38.00	0.11	ppb	1.53	40	94.7	50 - 150	
111	Cd	115	1	38.99	0.63	ppb	2.31	40	96.0	50 - 150	
118	Sn	115	1	2.04	0.14	ppb	2.43	40	5.1	50 - 150	
121	Sb	115	1	5.50	0.07	ppb	0.91	40	13.7	50 - 150	
137	Ba	115	1	58.79	20.19	ppb	1.25	40	97.7	50 - 150	
205	Tl	165	1	39.05	0.22	ppb	0.90	40	97.1	50 - 150	
208	Pb	165	1	74.87	38.61	ppb	1.07	40	95.2	50 - 150	
232	Th	165	1	45.26	12.02	ppb	0.90	40	87.0	50 - 150	
238	U	165	1	40.57	2.53	ppb	1.48	40	95.4	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	541790	0.49	534602	101.3	30 - 120	
45	Sc	1	2737373	1.80	2551677	107.3	30 - 120	
72	Ge	1	1645761	1.29	1553005	106.0	30 - 120	
115	In	1	4520629	1.43	4260602	106.1	30 - 120	
165	Ho	1	9287612	0.51	8806612	105.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\058_MSD.D\058_MSD.D#
Date Acquired:	Nov 8 2011 09:40 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-53-j msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	3401
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\057_MS.D\057_MS.D#

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9 Be	6	1	39.33	ppb	2.71	40.98	4.11	20	
51 V	72	1	68.89	ppb	1.08	70.39	2.15	20	
52 Cr	72	1	53.90	ppb	0.45	54.34	0.81	20	
55 Mn	72	1	313.90	ppb	1.18	314.50	0.19	20	
59 Co	72	1	41.66	ppb	2.13	40.90	1.84	20	
60 Ni	72	1	45.48	ppb	2.10	45.85	0.81	20	
63 Cu	72	1	46.73	ppb	1.88	46.93	0.43	20	
66 Zn	72	1	77.14	ppb	1.28	78.62	1.90	20	
75 As	72	1	43.27	ppb	0.41	43.66	0.90	20	
78 Se	72	1	41.14	ppb	1.96	40.98	0.39	20	
95 Mo	72	1	36.92	ppb	1.54	36.69	0.62	20	
107 Ag	115	1	37.80	ppb	1.79	38.00	0.53	20	
111 Cd	115	1	38.89	ppb	0.97	38.99	0.26	20	
118 Sn	115	1	1.63	ppb	3.82	2.04	22.84	20	
121 Sb	115	1	5.31	ppb	0.33	5.50	3.61	20	
137 Ba	115	1	58.38	ppb	1.61	58.79	0.70	20	
205 Tl	165	1	39.09	ppb	0.72	39.05	0.10	20	
208 Pb	165	1	74.32	ppb	1.23	74.87	0.74	20	
232 Th	165	1	45.53	ppb	0.10	45.26	0.59	20	
238 U	165	1	40.86	ppb	1.29	40.57	0.71	20	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	544026	1.37	534602	101.8	30 - 120	
45 Sc	1	2724379	0.68	2551677	106.8	30 - 120	
72 Ge	1	1641478	1.68	1553005	105.7	30 - 120	
115 In	1	4531186	1.55	4260602	106.4	30 - 120	
165 Ho	1	9246246	0.46	8806612	105.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\059SMPL.D\059SMPL.D#
Date Acquired: Nov 8 2011 09:43 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-54-g
Misc Info:
Vial Number: 3402
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.38	0.38	ppb	31.17	3600	
51 V	72	1	26.34	26.34	ppb	1.51	3600	
52 Cr	72	1	11.60	11.60	ppb	1.87	3600	
55 Mn	72	1	241.90	241.90	ppb	2.18	18000	
59 Co	72	1	1.52	1.52	ppb	1.98	3600	
60 Ni	72	1	5.31	5.31	ppb	0.39	3600	
63 Cu	72	1	7.39	7.39	ppb	0.28	3600	
66 Zn	72	1	35.53	35.53	ppb	0.59	3600	
75 As	72	1	5.42	5.42	ppb	0.90	3600	
78 Se	72	1	1.62	1.62	ppb	17.59	3600	
95 Mo	72	1	1.22	1.22	ppb	5.61	3600	
107 Ag	115	1	0.09	0.09	ppb	7.05	3600	
111 Cd	115	1	0.16	0.16	ppb	3.08	3600	
118 Sn	115	1	0.09	0.09	ppb	15.22	3600	
121 Sb	115	1	0.06	0.06	ppb	5.62	3600	
137 Ba	115	1	17.55	17.55	ppb	1.89	3600	
205 Tl	165	1	0.18	0.18	ppb	1.64	3600	
208 Pb	165	1	32.40	32.40	ppb	0.69	3600	
232 Th	165	1	10.06	10.06	ppb	0.08	1000	
238 U	165	1	2.18	2.18	ppb	0.35	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	538343	1.20	534602	100.7	30 - 120	
45 Sc	1	2733973	1.76	2551677	107.1	30 - 120	
72 Ge	1	1680114	0.56	1553005	108.2	30 - 120	
115 In	1	4507796	0.46	4260602	105.8	30 - 120	
165 Ho	1	9220765	0.36	8806612	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\060_CCV.D\060_CCV.D#
Date Acquired:	Nov 8 2011 09:46 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.90	ppb	1.89	50	103.8	90 - 110	
51	V	72	1	50.08	ppb	2.77	50	100.2	90 - 110	
52	Cr	72	1	49.42	ppb	1.19	50	98.8	90 - 110	
55	Mn	72	1	49.97	ppb	2.48	50	99.9	90 - 110	
59	Co	72	1	49.73	ppb	2.37	50	99.5	90 - 110	
60	Ni	72	1	49.27	ppb	2.28	50	98.5	90 - 110	
63	Cu	72	1	50.17	ppb	1.59	50	100.3	90 - 110	
66	Zn	72	1	49.46	ppb	1.06	50	98.9	90 - 110	
75	As	72	1	50.34	ppb	2.03	50	100.7	90 - 110	
78	Se	72	1	51.15	ppb	3.72	50	102.3	90 - 110	
95	Mo	72	1	49.47	ppb	0.99	50	98.9	90 - 110	
107	Ag	115	1	51.19	ppb	1.02	50	102.4	90 - 110	
111	Cd	115	1	49.63	ppb	0.81	50	99.3	90 - 110	
118	Sn	115	1	48.10	ppb	0.37	50	96.2	90 - 110	
121	Sb	115	1	49.16	ppb	0.29	50	98.3	90 - 110	
137	Ba	115	1	50.55	ppb	1.63	50	101.1	90 - 110	
205	Tl	165	1	50.83	ppb	0.79	50	101.7	90 - 110	
208	Pb	165	1	49.98	ppb	1.60	50	100.0	90 - 110	
232	Th	165	1	50.23	ppb	2.02	50	100.5	90 - 110	
238	U	165	1	49.51	ppb	1.36	50	99.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	531490	1.61	534602	99.4	30 - 120	
45	Sc	1	2720650	0.41	2551677	106.6	30 - 120	
72	Ge	1	1677146	1.12	1553005	108.0	30 - 120	
115	In	1	4587452	1.77	4260602	107.7	30 - 120	
165	Ho	1	9090439	0.15	8806612	103.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\061_CCB.D\061_CCB.D#
Date Acquired:	Nov 8 2011 09:49 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	171.28	1.00	
51	V	72	1	0.019	ppb	17.02	1.00	
52	Cr	72	1	-0.001	ppb	1842.10	1.00	
55	Mn	72	1	0.023	ppb	4.01	1.00	
59	Co	72	1	0.009	ppb	11.36	1.00	
60	Ni	72	1	-0.006	ppb	162.91	1.00	
63	Cu	72	1	-0.004	ppb	79.55	1.00	
66	Zn	72	1	-0.013	ppb	35.69	1.00	
75	As	72	1	0.013	ppb	45.48	1.00	
78	Se	72	1	0.314	ppb	48.34	1.00	
95	Mo	72	1	0.015	ppb	47.27	1.00	
107	Ag	115	1	0.009	ppb	36.52	1.00	
111	Cd	115	1	0.010	ppb	18.33	1.00	
118	Sn	115	1	0.008	ppb	25.10	1.00	
121	Sb	115	1	0.016	ppb	17.13	1.00	
137	Ba	115	1	0.015	ppb	45.74	1.00	
205	Tl	165	1	0.022	ppb	9.53	1.00	
208	Pb	165	1	0.010	ppb	13.49	1.00	
232	Th	165	1	0.044	ppb	6.52	1.00	
238	U	165	1	0.013	ppb	7.73	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	534672	0.88	534602	100.0	30 - 120	
45	Sc	1	2728251	2.66	2551677	106.9	30 - 120	
72	Ge	1	1683557	0.56	1553005	108.4	30 - 120	
115	In	1	4564875	1.27	4260602	107.1	30 - 120	
165	Ho	1	9258427	0.61	8806612	105.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\062WASH.D\062WASH.D#
Date Acquired:	Nov 8 2011 09:52 pm
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.005 ppb	12.15	1.30	
51	V	72	1	5.059 ppb	1.99	6.50	
52	Cr	72	1	2.196 ppb	1.46	2.60	
55	Mn	72	1	1.271 ppb	2.50	1.30	
59	Co	72	1	1.110 ppb	1.52	1.30	
60	Ni	72	1	2.275 ppb	2.66	2.60	
63	Cu	72	1	2.182 ppb	1.81	2.60	
66	Zn	72	1	10.410 ppb	1.43	13.00	
75	As	72	1	5.285 ppb	0.46	6.50	
78	Se	72	1	5.606 ppb	9.21	6.50	
95	Mo	72	1	2.112 ppb	1.90	2.60	
107	Ag	115	1	5.002 ppb	1.35	6.50	
111	Cd	115	1	1.073 ppb	3.55	1.30	
118	Sn	115	1	9.811 ppb	0.44	13.00	
121	Sb	115	1	2.067 ppb	1.36	2.60	
137	Ba	115	1	1.089 ppb	1.95	1.30	
205	Tl	165	1	1.114 ppb	1.00	1.30	
208	Pb	165	1	1.095 ppb	0.61	1.30	
232	Th	165	1	2.078 ppb	1.17	2.60	
238	U	165	1	1.057 ppb	1.09	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	529070	1.28	534602	99.0	30 - 120	
45	Sc	1	2725195	0.49	2551677	106.8	30 - 120	
72	Ge	1	1680008	1.59	1553005	108.2	30 - 120	
115	In	1	4652510	1.19	4260602	109.2	30 - 120	
165	Ho	1	9116979	0.24	8806612	103.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\063SMPL.D\063SMPL.D#
Date Acquired: Nov 8 2011 09:55 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-55-g
Misc Info:
Vial Number: 3403
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.38	0.38	ppb	11.17	3600	
51 V	72	1	27.60	27.60	ppb	0.98	3600	
52 Cr	72	1	11.87	11.87	ppb	0.72	3600	
55 Mn	72	1	249.50	249.50	ppb	0.26	18000	
59 Co	72	1	1.54	1.54	ppb	0.64	3600	
60 Ni	72	1	5.52	5.52	ppb	1.39	3600	
63 Cu	72	1	8.07	8.07	ppb	1.11	3600	
66 Zn	72	1	37.65	37.65	ppb	0.76	3600	
75 As	72	1	5.77	5.77	ppb	1.42	3600	
78 Se	72	1	2.05	2.05	ppb	13.54	3600	
95 Mo	72	1	1.30	1.30	ppb	2.57	3600	
107 Ag	115	1	0.10	0.10	ppb	5.78	3600	
111 Cd	115	1	0.13	0.13	ppb	7.20	3600	
118 Sn	115	1	0.09	0.09	ppb	18.08	3600	
121 Sb	115	1	0.07	0.07	ppb	3.86	3600	
137 Ba	115	1	16.94	16.94	ppb	0.70	3600	
205 Tl	165	1	0.17	0.17	ppb	2.19	3600	
208 Pb	165	1	37.21	37.21	ppb	2.11	3600	
232 Th	165	1	11.23	11.23	ppb	2.24	1000	
238 U	165	1	2.35	2.35	ppb	2.86	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	535606	0.98	534602	100.2	30 - 120	
45 Sc	1	2726916	0.84	2551677	106.9	30 - 120	
72 Ge	1	1666996	1.03	1553005	107.3	30 - 120	
115 In	1	4523494	0.86	4260602	106.2	30 - 120	
165 Ho	1	9168658	1.25	8806612	104.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\064SMPL.D\064SMPL.D#
Date Acquired: Nov 8 2011 09:57 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-56-g
Misc Info:
Vial Number: 3404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.25	0.25	ppb	17.95	3600	
51	V	72	1	30.74	30.74	ppb	1.08	3600	
52	Cr	72	1	11.74	11.74	ppb	0.19	3600	
55	Mn	72	1	159.10	159.10	ppb	0.81	18000	
59	Co	72	1	1.33	1.33	ppb	1.99	3600	
60	Ni	72	1	6.23	6.23	ppb	0.82	3600	
63	Cu	72	1	11.52	11.52	ppb	1.52	3600	
66	Zn	72	1	36.58	36.58	ppb	1.23	3600	
75	As	72	1	6.35	6.35	ppb	0.36	3600	
78	Se	72	1	2.33	2.33	ppb	21.88	3600	
95	Mo	72	1	1.93	1.93	ppb	1.52	3600	
107	Ag	115	1	0.14	0.14	ppb	4.01	3600	
111	Cd	115	1	0.21	0.21	ppb	15.57	3600	
118	Sn	115	1	0.37	0.37	ppb	72.96	3600	
121	Sb	115	1	0.18	0.18	ppb	9.08	3600	
137	Ba	115	1	20.55	20.55	ppb	0.82	3600	
205	Tl	165	1	0.18	0.18	ppb	1.49	3600	
208	Pb	165	1	59.92	59.92	ppb	0.64	3600	
232	Th	165	1	12.66	12.66	ppb	2.14	1000	
238	U	165	1	3.17	3.17	ppb	1.69	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	538397	0.47	534602	100.7	30 - 120	
45	Sc	1	2736290	0.11	2551677	107.2	30 - 120	
72	Ge	1	1668816	0.77	1553005	107.5	30 - 120	
115	In	1	4530078	0.82	4260602	106.3	30 - 120	
165	Ho	1	9231707	0.84	8806612	104.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\065SMPL.D\065SMPL.D#
Date Acquired:	Nov 8 2011 10:00 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-57-g
Misc Info:	
Vial Number:	3405
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.24	0.24	ppb	34.39	3600	
51	V	72	1	28.20	28.20	ppb	2.04	3600	
52	Cr	72	1	10.71	10.71	ppb	0.92	3600	
55	Mn	72	1	176.50	176.50	ppb	1.55	18000	
59	Co	72	1	1.35	1.35	ppb	0.60	3600	
60	Ni	72	1	6.08	6.08	ppb	2.25	3600	
63	Cu	72	1	13.17	13.17	ppb	0.84	3600	
66	Zn	72	1	41.51	41.51	ppb	1.35	3600	
75	As	72	1	5.70	5.70	ppb	1.77	3600	
78	Se	72	1	1.98	1.98	ppb	14.56	3600	
95	Mo	72	1	2.18	2.18	ppb	2.60	3600	
107	Ag	115	1	0.14	0.14	ppb	0.12	3600	
111	Cd	115	1	0.19	0.19	ppb	12.18	3600	
118	Sn	115	1	0.20	0.20	ppb	9.34	3600	
121	Sb	115	1	0.20	0.20	ppb	3.18	3600	
137	Ba	115	1	20.71	20.71	ppb	0.85	3600	
205	Tl	165	1	0.15	0.15	ppb	5.07	3600	
208	Pb	165	1	61.77	61.77	ppb	1.42	3600	
232	Th	165	1	9.80	9.80	ppb	1.30	1000	
238	U	165	1	2.92	2.92	ppb	2.13	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532527	0.87	534602	99.6	30 - 120	
45	Sc	1	2710595	0.66	2551677	106.2	30 - 120	
72	Ge	1	1647001	0.46	1553005	106.1	30 - 120	
115	In	1	4504034	0.79	4260602	105.7	30 - 120	
165	Ho	1	9165460	1.21	8806612	104.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\066SMPL.D\066SMPL.D#
Date Acquired: Nov 8 2011 10:03 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-58-i
Misc Info:
Vial Number: 3406
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	12.92	3600	
51	V	72	1	31.76	31.76	ppb	3.75	3600	
52	Cr	72	1	13.83	13.83	ppb	2.63	3600	
55	Mn	72	1	272.00	272.00	ppb	2.52	18000	
59	Co	72	1	1.76	1.76	ppb	2.26	3600	
60	Ni	72	1	8.04	8.04	ppb	4.69	3600	
63	Cu	72	1	14.91	14.91	ppb	3.50	3600	
66	Zn	72	1	49.48	49.48	ppb	2.97	3600	
75	As	72	1	6.59	6.59	ppb	3.67	3600	
78	Se	72	1	2.34	2.34	ppb	18.67	3600	
95	Mo	72	1	2.29	2.29	ppb	4.25	3600	
107	Ag	115	1	0.13	0.13	ppb	5.63	3600	
111	Cd	115	1	0.27	0.27	ppb	4.07	3600	
118	Sn	115	1	0.30	0.30	ppb	15.46	3600	
121	Sb	115	1	0.22	0.22	ppb	5.32	3600	
137	Ba	115	1	25.30	25.30	ppb	2.12	3600	
205	Tl	165	1	0.19	0.19	ppb	6.00	3600	
208	Pb	165	1	64.37	64.37	ppb	4.15	3600	
232	Th	165	1	11.88	11.88	ppb	3.77	1000	
238	U	165	1	3.29	3.29	ppb	3.25	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	519455	0.84	534602	97.2	30 - 120	
45	Sc	1	2555631	3.71	2551677	100.2	30 - 120	
72	Ge	1	1590045	2.86	1553005	102.4	30 - 120	
115	In	1	4340321	1.86	4260602	101.9	30 - 120	
165	Ho	1	8742514	3.50	8806612	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\067_CCV.D\067_CCV.D#
Date Acquired:	Nov 8 2011 10:06 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.35	ppb	1.46	50	104.7	90 - 110	
51	V	72	1	51.30	ppb	2.47	50	102.6	90 - 110	
52	Cr	72	1	50.12	ppb	0.25	50	100.2	90 - 110	
55	Mn	72	1	50.57	ppb	1.92	50	101.1	90 - 110	
59	Co	72	1	50.55	ppb	1.98	50	101.1	90 - 110	
60	Ni	72	1	50.15	ppb	1.61	50	100.3	90 - 110	
63	Cu	72	1	50.48	ppb	1.12	50	101.0	90 - 110	
66	Zn	72	1	49.59	ppb	1.51	50	99.2	90 - 110	
75	As	72	1	50.42	ppb	1.17	50	100.8	90 - 110	
78	Se	72	1	53.19	ppb	1.52	50	106.4	90 - 110	
95	Mo	72	1	50.15	ppb	1.62	50	100.3	90 - 110	
107	Ag	115	1	50.16	ppb	1.46	50	100.3	90 - 110	
111	Cd	115	1	49.57	ppb	0.64	50	99.1	90 - 110	
118	Sn	115	1	47.96	ppb	0.62	50	95.9	90 - 110	
121	Sb	115	1	48.99	ppb	0.34	50	98.0	90 - 110	
137	Ba	115	1	50.23	ppb	0.70	50	100.5	90 - 110	
205	Tl	165	1	51.15	ppb	1.09	50	102.3	90 - 110	
208	Pb	165	1	49.39	ppb	0.97	50	98.8	90 - 110	
232	Th	165	1	50.63	ppb	2.61	50	101.3	90 - 110	
238	U	165	1	49.28	ppb	1.19	50	98.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	525088	0.94	534602	98.2	30 - 120	
45	Sc	1	2667605	0.88	2551677	104.5	30 - 120	
72	Ge	1	1653878	2.35	1553005	106.5	30 - 120	
115	In	1	4579318	0.23	4260602	107.5	30 - 120	
165	Ho	1	9137660	1.06	8806612	103.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\068_CCB.D\068_CCB.D#
Date Acquired:	Nov 8 2011 10:09 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.013	ppb	114.10	1.00	
51	V	72	1	0.023	ppb	30.07	1.00	
52	Cr	72	1	0.001	ppb	1325.60	1.00	
55	Mn	72	1	0.024	ppb	24.42	1.00	
59	Co	72	1	0.007	ppb	20.30	1.00	
60	Ni	72	1	-0.020	ppb	34.68	1.00	
63	Cu	72	1	0.001	ppb	1862.70	1.00	
66	Zn	72	1	-0.015	ppb	39.43	1.00	
75	As	72	1	0.006	ppb	164.65	1.00	
78	Se	72	1	-0.068	ppb	76.47	1.00	
95	Mo	72	1	0.009	ppb	25.73	1.00	
107	Ag	115	1	0.008	ppb	17.52	1.00	
111	Cd	115	1	0.005	ppb	77.69	1.00	
118	Sn	115	1	-0.001	ppb	859.90	1.00	
121	Sb	115	1	0.015	ppb	17.51	1.00	
137	Ba	115	1	0.007	ppb	36.28	1.00	
205	Tl	165	1	0.022	ppb	8.90	1.00	
208	Pb	165	1	0.011	ppb	5.40	1.00	
232	Th	165	1	0.045	ppb	4.36	1.00	
238	U	165	1	0.010	ppb	10.49	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	522804	1.32	534602	97.8	30 - 120	
45	Sc	1	2703329	1.30	2551677	105.9	30 - 120	
72	Ge	1	1681604	1.12	1553005	108.3	30 - 120	
115	In	1	4563659	0.68	4260602	107.1	30 - 120	
165	Ho	1	9166635	1.14	8806612	104.1	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\069WASH.D\069WASH.D#
Date Acquired:	Nov 8 2011 10:12 pm
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.142 ppb	10.23	1.30	
51	V	72	1	5.003 ppb	0.51	6.50	
52	Cr	72	1	2.171 ppb	0.19	2.60	
55	Mn	72	1	1.254 ppb	2.69	1.30	
59	Co	72	1	1.098 ppb	2.24	1.30	
60	Ni	72	1	2.266 ppb	3.12	2.60	
63	Cu	72	1	2.194 ppb	1.79	2.60	
66	Zn	72	1	10.540 ppb	0.93	13.00	
75	As	72	1	5.272 ppb	1.16	6.50	
78	Se	72	1	5.774 ppb	8.31	6.50	
95	Mo	72	1	2.172 ppb	3.30	2.60	
107	Ag	115	1	5.109 ppb	1.35	6.50	
111	Cd	115	1	1.094 ppb	3.02	1.30	
118	Sn	115	1	9.866 ppb	1.35	13.00	
121	Sb	115	1	2.075 ppb	3.87	2.60	
137	Ba	115	1	1.125 ppb	4.75	1.30	
205	Tl	165	1	1.107 ppb	1.67	1.30	
208	Pb	165	1	1.080 ppb	1.52	1.30	
232	Th	165	1	2.055 ppb	1.94	2.60	
238	U	165	1	1.059 ppb	1.15	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	524300	0.82	534602	98.1	30 - 120	
45	Sc	1	2735479	1.05	2551677	107.2	30 - 120	
72	Ge	1	1668615	1.19	1553005	107.4	30 - 120	
115	In	1	4582023	1.56	4260602	107.5	30 - 120	
165	Ho	1	9204999	0.81	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\070_BLK.D\070_BLK.D#
Date Acquired: Nov 8 2011 10:15 pm
Operator: LRD
Sample Name: mb 280-94817/1-a
Misc Info: BLANK 94817 Soil DoD4/6020A
Vial Number: 2401
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.008 ppb	148.48	2.00	
51	V	72	1	0.018 ppb	201.01	2.00	
52	Cr	72	1	0.113 ppb	7.09	2.00	
55	Mn	72	1	0.584 ppb	7.63	2.00	
59	Co	72	1	0.005 ppb	13.70	2.00	
60	Ni	72	1	0.047 ppb	9.78	2.00	
63	Cu	72	1	0.224 ppb	7.72	2.00	
66	Zn	72	1	0.334 ppb	3.12	2.00	
75	As	72	1	0.009 ppb	124.04	2.00	
78	Se	72	1	0.309 ppb	44.72	2.00	
95	Mo	72	1	0.005 ppb	123.37	2.00	
107	Ag	115	1	0.007 ppb	21.61	2.00	
111	Cd	115	1	0.005 ppb	55.80	2.00	
118	Sn	115	1	0.085 ppb	4.88	2.00	
121	Sb	115	1	0.007 ppb	8.28	2.00	
137	Ba	115	1	0.064 ppb	11.74	2.00	
205	Tl	165	1	0.008 ppb	14.73	2.00	
208	Pb	165	1	0.019 ppb	6.75	2.00	
232	Th	165	1	0.022 ppb	9.80	2.00	
238	U	165	1	0.007 ppb	6.80	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532108	1.12	534602	99.5	30 - 120	
45	Sc	1	2803492	0.48	2551677	109.9	30 - 120	
72	Ge	1	1691338	0.90	1553005	108.9	30 - 120	
115	In	1	4598398	1.83	4260602	107.9	30 - 120	
165	Ho	1	9247036	1.21	8806612	105.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\071_LCS.D\071_LCS.D#
Date Acquired:	Nov 8 2011 10:18 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-94817/2-a
Misc Info:	LCS
Vial Number:	2402
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	43.46	2.06	40	108.7	80 - 120	
51 V	72	1	41.78	2.14	40	104.5	80 - 120	
52 Cr	72	1	41.82	2.31	40	104.6	80 - 120	
55 Mn	72	1	42.59	1.07	40	106.5	80 - 120	
59 Co	72	1	42.79	0.28	40	107.0	80 - 120	
60 Ni	72	1	41.81	0.70	40	104.5	80 - 120	
63 Cu	72	1	41.28	0.55	40	103.2	80 - 120	
66 Zn	72	1	39.99	0.76	40	100.0	80 - 120	
75 As	72	1	41.70	0.67	40	104.3	80 - 120	
78 Se	72	1	42.04	1.81	40	105.1	80 - 120	
95 Mo	72	1	41.00	0.34	40	102.5	80 - 120	
107 Ag	115	1	42.77	3.35	40	106.9	80 - 120	
111 Cd	115	1	41.15	1.90	40	102.9	80 - 120	
118 Sn	115	1	40.19	1.10	40	100.5	80 - 120	
121 Sb	115	1	40.35	1.89	40	100.9	80 - 120	
137 Ba	115	1	42.84	2.15	40	107.1	80 - 120	
205 Tl	165	1	42.20	0.80	40	105.5	80 - 120	
208 Pb	165	1	41.23	0.60	40	103.1	80 - 120	
232 Th	165	1	40.63	1.68	40	101.6	80 - 120	
238 U	165	1	41.30	0.31	40	103.3	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	532577	1.07	534602	99.6	30 - 120	
45 Sc	1	2754657	0.46	2551677	108.0	30 - 120	
72 Ge	1	1695215	0.28	1553005	109.2	30 - 120	
115 In	1	4612730	2.13	4260602	108.3	30 - 120	
165 Ho	1	9271884	0.88	8806612	105.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\072SMPL.D\072SMPL.D#
Date Acquired:	Nov 8 2011 10:21 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-18-c
Misc Info:	
Vial Number:	2403
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.22	0.22	ppb	12.72	3600	
51	V	72	1	15.80	15.80	ppb	1.34	3600	
52	Cr	72	1	10.20	10.20	ppb	0.94	3600	
55	Mn	72	1	161.00	161.00	ppb	0.94	18000	
59	Co	72	1	2.85	2.85	ppb	0.98	3600	
60	Ni	72	1	5.79	5.79	ppb	0.98	3600	
63	Cu	72	1	9.21	9.21	ppb	0.76	3600	
66	Zn	72	1	25.10	25.10	ppb	0.41	3600	
75	As	72	1	4.38	4.38	ppb	0.33	3600	
78	Se	72	1	1.15	1.15	ppb	47.70	3600	
95	Mo	72	1	0.43	0.43	ppb	1.85	3600	
107	Ag	115	1	0.06	0.06	ppb	3.69	3600	
111	Cd	115	1	0.11	0.11	ppb	15.50	3600	
118	Sn	115	1	0.12	0.12	ppb	5.61	3600	
121	Sb	115	1	0.04	0.04	ppb	5.45	3600	
137	Ba	115	1	22.20	22.20	ppb	0.82	3600	
205	Tl	165	1	0.18	0.18	ppb	2.27	3600	
208	Pb	165	1	17.58	17.58	ppb	1.40	3600	
232	Th	165	1	5.87	5.87	ppb	1.32	1000	
238	U	165	1	1.16	1.16	ppb	0.58	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	533472	0.76	534602	99.8	30 - 120	
45	Sc	1	2724594	1.84	2551677	106.8	30 - 120	
72	Ge	1	1679172	0.06	1553005	108.1	30 - 120	
115	In	1	4605314	0.65	4260602	108.1	30 - 120	
165	Ho	1	9313145	0.99	8806612	105.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\073SMPL.D\073SMPL.D#
Date Acquired: Nov 8 2011 10:23 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-19-e
Misc Info:
Vial Number: 2404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.38	0.38	ppb	15.99	3600	
51	V	72	1	18.34	18.34	ppb	1.50	3600	
52	Cr	72	1	12.57	12.57	ppb	1.48	3600	
55	Mn	72	1	230.30	230.30	ppb	0.87	18000	
59	Co	72	1	4.11	4.11	ppb	1.65	3600	
60	Ni	72	1	7.94	7.94	ppb	0.28	3600	
63	Cu	72	1	6.47	6.47	ppb	0.46	3600	
66	Zn	72	1	19.80	19.80	ppb	0.40	3600	
75	As	72	1	4.44	4.44	ppb	0.68	3600	
78	Se	72	1	1.43	1.43	ppb	34.08	3600	
95	Mo	72	1	0.42	0.42	ppb	2.94	3600	
107	Ag	115	1	0.03	0.03	ppb	16.75	3600	
111	Cd	115	1	0.08	0.08	ppb	10.63	3600	
118	Sn	115	1	0.10	0.10	ppb	10.26	3600	
121	Sb	115	1	0.02	0.02	ppb	9.58	3600	
137	Ba	115	1	17.82	17.82	ppb	0.81	3600	
205	Tl	165	1	0.17	0.17	ppb	1.73	3600	
208	Pb	165	1	8.10	8.10	ppb	0.34	3600	
232	Th	165	1	9.00	9.00	ppb	0.41	1000	
238	U	165	1	1.53	1.53	ppb	0.20	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	536936	0.37	534602	100.4	30 - 120	
45	Sc	1	2776884	1.16	2551677	108.8	30 - 120	
72	Ge	1	1692157	0.46	1553005	109.0	30 - 120	
115	In	1	4549703	1.23	4260602	106.8	30 - 120	
165	Ho	1	9157895	0.64	8806612	104.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\074SMPL.D\074SMPL.D#
Date Acquired:	Nov 8 2011 10:26 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22259-a-1-d
Misc Info:	
Vial Number:	2405
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.58	1.58	ppb	4.12	3600	
51	V	72	1	147.90	147.90	ppb	0.67	3600	
52	Cr	72	1	101.50	101.50	ppb	0.48	3600	
55	Mn	72	1	249.90	249.90	ppb	0.14	18000	
59	Co	72	1	22.47	22.47	ppb	0.85	3600	
60	Ni	72	1	55.42	55.42	ppb	0.50	3600	
63	Cu	72	1	40.61	40.61	ppb	0.44	3600	
66	Zn	72	1	60.68	60.68	ppb	0.03	3600	
75	As	72	1	9.01	9.01	ppb	0.77	3600	
78	Se	72	1	1.68	1.68	ppb	25.12	3600	
95	Mo	72	1	0.21	0.21	ppb	1.52	3600	
107	Ag	115	1	0.06	0.06	ppb	11.91	3600	
111	Cd	115	1	0.18	0.18	ppb	13.35	3600	
118	Sn	115	1	0.11	0.11	ppb	6.83	3600	
121	Sb	115	1	0.02	0.02	ppb	10.41	3600	
137	Ba	115	1	422.50	422.50	ppb	1.06	3600	
205	Tl	165	1	0.30	0.30	ppb	1.90	3600	
208	Pb	165	1	11.80	11.80	ppb	0.76	3600	
232	Th	165	1	9.26	9.26	ppb	0.61	1000	
238	U	165	1	1.18	1.18	ppb	0.90	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	519163	0.47	534602	97.1	30 - 120	
45	Sc	1	2864323	0.33	2551677	112.3	30 - 120	
72	Ge	1	1642625	0.89	1553005	105.8	30 - 120	
115	In	1	4417330	1.00	4260602	103.7	30 - 120	
165	Ho	1	8999995	1.16	8806612	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\075SMPL.D\075SMPL.D#
Date Acquired: Nov 8 2011 10:29 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22259-a-2-d
Misc Info:
Vial Number: 2406
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.69	1.69	ppb	10.23	3600	
51	V	72	1	148.40	148.40	ppb	0.73	3600	
52	Cr	72	1	84.58	84.58	ppb	1.15	3600	
55	Mn	72	1	305.60	305.60	ppb	1.34	18000	
59	Co	72	1	24.94	24.94	ppb	0.12	3600	
60	Ni	72	1	47.79	47.79	ppb	0.35	3600	
63	Cu	72	1	55.90	55.90	ppb	1.70	3600	
66	Zn	72	1	69.81	69.81	ppb	0.87	3600	
75	As	72	1	9.39	9.39	ppb	2.11	3600	
78	Se	72	1	1.95	1.95	ppb	15.92	3600	
95	Mo	72	1	0.20	0.20	ppb	4.29	3600	
107	Ag	115	1	0.13	0.13	ppb	4.11	3600	
111	Cd	115	1	0.22	0.22	ppb	6.27	3600	
118	Sn	115	1	0.10	0.10	ppb	13.34	3600	
121	Sb	115	1	0.02	0.02	ppb	14.25	3600	
137	Ba	115	1	415.20	415.20	ppb	2.53	3600	
205	Tl	165	1	0.21	0.21	ppb	1.15	3600	
208	Pb	165	1	9.71	9.71	ppb	1.07	3600	
232	Th	165	1	10.34	10.34	ppb	1.86	1000	
238	U	165	1	1.25	1.25	ppb	0.90	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	512418	0.42	534602	95.9	30 - 120	
45	Sc	1	2861566	1.34	2551677	112.1	30 - 120	
72	Ge	1	1636124	0.86	1553005	105.4	30 - 120	
115	In	1	4428067	1.03	4260602	103.9	30 - 120	
165	Ho	1	8912784	1.60	8806612	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\076SMPL.D\076SMPL.D#
Date Acquired:	Nov 8 2011 10:32 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-1-e
Misc Info:	
Vial Number:	2407
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.73	1.73	ppb	19.47	3600	
51	V	72	1	189.40	189.40	ppb	1.54	3600	
52	Cr	72	1	51.25	51.25	ppb	2.32	3600	
55	Mn	72	1	673.50	673.50	ppb	1.98	18000	
59	Co	72	1	21.91	21.91	ppb	0.70	3600	
60	Ni	72	1	25.06	25.06	ppb	0.40	3600	
63	Cu	72	1	33.46	33.46	ppb	0.95	3600	
66	Zn	72	1	152.50	152.50	ppb	0.53	3600	
75	As	72	1	1.92	1.92	ppb	4.97	3600	
78	Se	72	1	2.45	2.45	ppb	26.64	3600	
95	Mo	72	1	0.21	0.21	ppb	4.32	3600	
107	Ag	115	1	0.05	0.05	ppb	6.62	3600	
111	Cd	115	1	0.55	0.55	ppb	6.15	3600	
118	Sn	115	1	0.10	0.10	ppb	13.35	3600	
121	Sb	115	1	0.01	0.01	ppb	12.68	3600	
137	Ba	115	1	116.80	116.80	ppb	1.83	3600	
205	Tl	165	1	0.35	0.35	ppb	2.95	3600	
208	Pb	165	1	12.98	12.98	ppb	2.37	3600	
232	Th	165	1	10.42	10.42	ppb	2.53	1000	
238	U	165	1	4.41	4.41	ppb	3.49	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496268	1.37	534602	92.8	30 - 120	
45	Sc	1	2861581	0.47	2551677	112.1	30 - 120	
72	Ge	1	1608533	0.56	1553005	103.6	30 - 120	
115	In	1	4409308	1.29	4260602	103.5	30 - 120	
165	Ho	1	8990252	1.88	8806612	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\077_CCV.D\077_CCV.D#
Date Acquired: Nov 8 2011 10:35 pm
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.30	ppb	3.00	50	104.6	90 - 110	
51	V	72	1	50.63	ppb	1.05	50	101.3	90 - 110	
52	Cr	72	1	49.92	ppb	1.92	50	99.8	90 - 110	
55	Mn	72	1	50.53	ppb	0.94	50	101.1	90 - 110	
59	Co	72	1	50.26	ppb	0.84	50	100.5	90 - 110	
60	Ni	72	1	49.86	ppb	0.86	50	99.7	90 - 110	
63	Cu	72	1	49.45	ppb	0.60	50	98.9	90 - 110	
66	Zn	72	1	49.50	ppb	0.05	50	99.0	90 - 110	
75	As	72	1	50.59	ppb	0.17	50	101.2	90 - 110	
78	Se	72	1	51.36	ppb	0.94	50	102.7	90 - 110	
95	Mo	72	1	50.52	ppb	0.74	50	101.0	90 - 110	
107	Ag	115	1	49.87	ppb	1.85	50	99.7	90 - 110	
111	Cd	115	1	49.10	ppb	1.27	50	98.2	90 - 110	
118	Sn	115	1	48.10	ppb	1.62	50	96.2	90 - 110	
121	Sb	115	1	48.94	ppb	1.36	50	97.9	90 - 110	
137	Ba	115	1	50.30	ppb	0.91	50	100.6	90 - 110	
205	Tl	165	1	50.88	ppb	1.73	50	101.8	90 - 110	
208	Pb	165	1	48.76	ppb	1.81	50	97.5	90 - 110	
232	Th	165	1	49.50	ppb	2.68	50	99.0	90 - 110	
238	U	165	1	48.81	ppb	2.57	50	97.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	527571	1.71	534602	98.7	30 - 120	
45	Sc	1	2682126	0.78	2551677	105.1	30 - 120	
72	Ge	1	1678842	0.98	1553005	108.1	30 - 120	
115	In	1	4648767	0.62	4260602	109.1	30 - 120	
165	Ho	1	9115396	2.08	8806612	103.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\078_CCB.D\078_CCB.D#
Date Acquired: Nov 8 2011 10:38 pm
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	3263.70	1.00	
51	V	72	1	0.020	ppb	60.13	1.00	
52	Cr	72	1	0.005	ppb	288.49	1.00	
55	Mn	72	1	0.035	ppb	19.32	1.00	
59	Co	72	1	0.005	ppb	36.73	1.00	
60	Ni	72	1	-0.013	ppb	18.08	1.00	
63	Cu	72	1	0.003	ppb	117.49	1.00	
66	Zn	72	1	-0.017	ppb	37.14	1.00	
75	As	72	1	0.007	ppb	68.27	1.00	
78	Se	72	1	0.248	ppb	43.84	1.00	
95	Mo	72	1	0.016	ppb	34.11	1.00	
107	Ag	115	1	0.008	ppb	21.49	1.00	
111	Cd	115	1	0.004	ppb	102.24	1.00	
118	Sn	115	1	-0.002	ppb	423.21	1.00	
121	Sb	115	1	0.014	ppb	15.09	1.00	
137	Ba	115	1	0.019	ppb	17.31	1.00	
205	Tl	165	1	0.014	ppb	6.86	1.00	
208	Pb	165	1	0.008	ppb	13.19	1.00	
232	Th	165	1	0.026	ppb	10.42	1.00	
238	U	165	1	0.009	ppb	5.76	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	518011	1.19	534602	96.9	30 - 120	
45	Sc	1	2730304	1.54	2551677	107.0	30 - 120	
72	Ge	1	1683330	0.76	1553005	108.4	30 - 120	
115	In	1	4565417	0.38	4260602	107.2	30 - 120	
165	Ho	1	9039040	0.30	8806612	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\079WASH.D\079WASH.D#		
Date Acquired:	Nov 8 2011 10:41 pm		
Operator:	LRD	**QC Summary:**	
Sample Name:	LLICV-1118468	**Analytes:**	**Pass**
Misc Info:		**ISTD:**	**Pass**
Vial Number:	1204		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal Update:	Nov 08 2011 07:04 pm		
Sample Type:	WASH		
Total Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.193 ppb	13.29	1.30	
51	V	72	1	5.112 ppb	1.97	6.50	
52	Cr	72	1	2.230 ppb	1.65	2.60	
55	Mn	72	1	1.261 ppb	2.47	1.30	
59	Co	72	1	1.104 ppb	2.49	1.30	
60	Ni	72	1	2.293 ppb	5.48	2.60	
63	Cu	72	1	2.207 ppb	1.36	2.60	
66	Zn	72	1	11.080 ppb	9.91	13.00	
75	As	72	1	5.386 ppb	1.01	6.50	
78	Se	72	1	5.298 ppb	1.70	6.50	
95	Mo	72	1	2.223 ppb	0.65	2.60	
107	Ag	115	1	5.103 ppb	1.80	6.50	
111	Cd	115	1	1.086 ppb	1.65	1.30	
118	Sn	115	1	9.972 ppb	1.43	13.00	
121	Sb	115	1	2.110 ppb	1.76	2.60	
137	Ba	115	1	1.151 ppb	1.20	1.30	
205	Tl	165	1	1.110 ppb	0.91	1.30	
208	Pb	165	1	1.091 ppb	1.26	1.30	
232	Th	165	1	2.088 ppb	0.88	2.60	
238	U	165	1	1.053 ppb	1.19	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	525148	1.07	534602	98.2	30 - 120	
45	Sc	1	2696150	1.91	2551677	105.7	30 - 120	
72	Ge	1	1676118	0.97	1553005	107.9	30 - 120	
115	In	1	4567228	1.32	4260602	107.2	30 - 120	
165	Ho	1	9088104	0.56	8806612	103.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\080SMPL.D\080SMPL.D#
Date Acquired: Nov 8 2011 10:44 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-2-a
Misc Info:
Vial Number: 2408
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.39	2.39	ppb	0.64	3600	
51	V	72	1	92.68	92.68	ppb	0.70	3600	
52	Cr	72	1	45.48	45.48	ppb	1.67	3600	
55	Mn	72	1	805.50	805.50	ppb	1.12	18000	
59	Co	72	1	17.20	17.20	ppb	1.51	3600	
60	Ni	72	1	36.12	36.12	ppb	0.80	3600	
63	Cu	72	1	39.00	39.00	ppb	0.53	3600	
66	Zn	72	1	137.60	137.60	ppb	0.05	3600	
75	As	72	1	13.82	13.82	ppb	1.49	3600	
78	Se	72	1	3.55	3.55	ppb	20.47	3600	
95	Mo	72	1	0.69	0.69	ppb	3.79	3600	
107	Ag	115	1	0.28	0.28	ppb	4.22	3600	
111	Cd	115	1	1.04	1.04	ppb	0.14	3600	
118	Sn	115	1	0.10	0.10	ppb	9.60	3600	
121	Sb	115	1	0.03	0.03	ppb	3.21	3600	
137	Ba	115	1	610.30	610.30	ppb	0.71	3600	
205	Tl	165	1	0.70	0.70	ppb	1.13	3600	
208	Pb	165	1	39.42	39.42	ppb	1.23	3600	
232	Th	165	1	25.48	25.48	ppb	2.15	1000	
238	U	165	1	2.78	2.78	ppb	1.42	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	494259	0.81	534602	92.5	30 - 120	
45	Sc	1	2687813	1.43	2551677	105.3	30 - 120	
72	Ge	1	1596870	0.66	1553005	102.8	30 - 120	
115	In	1	4261123	0.96	4260602	100.0	30 - 120	
165	Ho	1	8844994	1.04	8806612	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\081SMPL.D\081SMPL.D#
Date Acquired:	Nov 8 2011 10:47 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-3-a
Misc Info:	
Vial Number:	2409
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.46	2.46	ppb	7.90	3600	
51	V	72	1	42.15	42.15	ppb	1.02	3600	
52	Cr	72	1	23.77	23.77	ppb	0.45	3600	
55	Mn	72	1	353.70	353.70	ppb	0.29	18000	
59	Co	72	1	20.76	20.76	ppb	0.72	3600	
60	Ni	72	1	19.25	19.25	ppb	0.97	3600	
63	Cu	72	1	75.48	75.48	ppb	1.63	3600	
66	Zn	72	1	118.20	118.20	ppb	0.97	3600	
75	As	72	1	1.81	1.81	ppb	1.41	3600	
78	Se	72	1	2.14	2.14	ppb	9.51	3600	
95	Mo	72	1	0.06	0.06	ppb	3.02	3600	
107	Ag	115	1	0.08	0.08	ppb	3.36	3600	
111	Cd	115	1	0.41	0.41	ppb	10.47	3600	
118	Sn	115	1	0.01	0.01	ppb	142.57	3600	
121	Sb	115	1	0.01	0.01	ppb	23.96	3600	
137	Ba	115	1	142.70	142.70	ppb	1.43	3600	
205	Tl	165	1	0.73	0.73	ppb	2.29	3600	
208	Pb	165	1	33.46	33.46	ppb	2.08	3600	
232	Th	165	1	18.13	18.13	ppb	2.19	1000	
238	U	165	1	5.44	5.44	ppb	1.87	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493150	0.63	534602	92.2	30 - 120	
45	Sc	1	2736219	0.79	2551677	107.2	30 - 120	
72	Ge	1	1592061	1.04	1553005	102.5	30 - 120	
115	In	1	4335582	1.53	4260602	101.8	30 - 120	
165	Ho	1	8856900	1.05	8806612	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\082SMPL.D\082SMPL.D#
Date Acquired: Nov 8 2011 10:50 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-4-a
Misc Info:
Vial Number: 2410
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.16	2.16	ppb	6.40	3600	
51	V	72	1	99.82	99.82	ppb	1.94	3600	
52	Cr	72	1	37.14	37.14	ppb	1.93	3600	
55	Mn	72	1	1,228.00	1228.00	ppb	1.02	18000	
59	Co	72	1	18.54	18.54	ppb	1.00	3600	
60	Ni	72	1	28.46	28.46	ppb	0.71	3600	
63	Cu	72	1	34.66	34.66	ppb	0.48	3600	
66	Zn	72	1	116.40	116.40	ppb	0.73	3600	
75	As	72	1	11.48	11.48	ppb	0.07	3600	
78	Se	72	1	3.47	3.47	ppb	3.39	3600	
95	Mo	72	1	0.46	0.46	ppb	4.57	3600	
107	Ag	115	1	0.13	0.13	ppb	5.14	3600	
111	Cd	115	1	0.85	0.85	ppb	4.62	3600	
118	Sn	115	1	0.07	0.07	ppb	14.72	3600	
121	Sb	115	1	0.03	0.03	ppb	7.03	3600	
137	Ba	115	1	923.40	923.40	ppb	1.45	3600	
205	Tl	165	1	0.56	0.56	ppb	0.81	3600	
208	Pb	165	1	26.84	26.84	ppb	0.86	3600	
232	Th	165	1	23.09	23.09	ppb	1.17	1000	
238	U	165	1	2.23	2.23	ppb	0.74	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	478719	0.77	534602	89.5	30 - 120	
45	Sc	1	2642527	0.67	2551677	103.6	30 - 120	
72	Ge	1	1584274	0.57	1553005	102.0	30 - 120	
115	In	1	4251113	1.56	4260602	99.8	30 - 120	
165	Ho	1	8710572	0.24	8806612	98.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\083SMPL.D\083SMPL.D#
Date Acquired:	Nov 8 2011 10:52 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-6-a
Misc Info:	
Vial Number:	2411
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.31	2.31	ppb	3.25	3600	
51	V	72	1	150.70	150.70	ppb	1.37	3600	
52	Cr	72	1	44.11	44.11	ppb	0.39	3600	
55	Mn	72	1	637.20	637.20	ppb	1.58	18000	
59	Co	72	1	32.31	32.31	ppb	0.52	3600	
60	Ni	72	1	34.86	34.86	ppb	1.56	3600	
63	Cu	72	1	49.68	49.68	ppb	1.60	3600	
66	Zn	72	1	167.70	167.70	ppb	0.82	3600	
75	As	72	1	3.41	3.41	ppb	2.20	3600	
78	Se	72	1	2.78	2.78	ppb	6.93	3600	
95	Mo	72	1	0.60	0.60	ppb	2.85	3600	
107	Ag	115	1	0.12	0.12	ppb	13.73	3600	
111	Cd	115	1	0.95	0.95	ppb	0.88	3600	
118	Sn	115	1	0.18	0.18	ppb	3.81	3600	
121	Sb	115	1	0.01	0.01	ppb	8.57	3600	
137	Ba	115	1	100.90	100.90	ppb	1.11	3600	
205	Tl	165	1	0.61	0.61	ppb	1.71	3600	
208	Pb	165	1	18.30	18.30	ppb	1.32	3600	
232	Th	165	1	12.60	12.60	ppb	1.02	1000	
238	U	165	1	3.92	3.92	ppb	1.49	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	486025	0.95	534602	90.9	30 - 120	
45	Sc	1	2735990	0.50	2551677	107.2	30 - 120	
72	Ge	1	1612187	0.81	1553005	103.8	30 - 120	
115	In	1	4281509	0.29	4260602	100.5	30 - 120	
165	Ho	1	8840867	1.45	8806612	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\084SMPL.D\084SMPL.D#	
Date Acquired:	Nov 8 2011 10:55 pm	
Acq. Method:	NormISIS.M	**QC Summary:**
Operator:	LRD	**Analytes: Pass**
Sample Name:	280-22320-a-7-b	**ISTD: Pass**
Misc Info:		
Vial Number:	2412	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 08 2011 07:04 pm	
Sample Type:	SA	
Dilution Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	2.31	2.31	ppb	4.95	3600	
51 V	72	1	114.60	114.60	ppb	1.09	3600	
52 Cr	72	1	36.53	36.53	ppb	2.88	3600	
55 Mn	72	1	925.60	925.60	ppb	1.28	18000	
59 Co	72	1	23.03	23.03	ppb	1.88	3600	
60 Ni	72	1	28.56	28.56	ppb	2.16	3600	
63 Cu	72	1	40.39	40.39	ppb	1.41	3600	
66 Zn	72	1	125.40	125.40	ppb	1.58	3600	
75 As	72	1	8.01	8.01	ppb	1.68	3600	
78 Se	72	1	2.75	2.75	ppb	15.49	3600	
95 Mo	72	1	1.12	1.12	ppb	1.33	3600	
107 Ag	115	1	0.14	0.14	ppb	2.71	3600	
111 Cd	115	1	0.92	0.92	ppb	0.85	3600	
118 Sn	115	1	0.07	0.07	ppb	17.04	3600	
121 Sb	115	1	0.02	0.02	ppb	2.10	3600	
137 Ba	115	1	893.70	893.70	ppb	0.61	3600	
205 Tl	165	1	0.60	0.60	ppb	1.16	3600	
208 Pb	165	1	24.45	24.45	ppb	1.35	3600	
232 Th	165	1	18.75	18.75	ppb	1.38	1000	
238 U	165	1	4.94	4.94	ppb	1.14	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	471859	1.45	534602	88.3	30 - 120	
45 Sc	1	2607167	0.05	2551677	102.2	30 - 120	
72 Ge	1	1552744	0.76	1553005	100.0	30 - 120	
115 In	1	4179555	0.49	4260602	98.1	30 - 120	
165 Ho	1	8617444	0.81	8806612	97.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\085SMPL.D\085SMPL.D#
Date Acquired:	Nov 8 2011 10:58 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-8-a
Misc Info:	
Vial Number:	2501
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.94	1.94	ppb	1.61	3600	
51	V	72	1	95.75	95.75	ppb	1.55	3600	
52	Cr	72	1	32.42	32.42	ppb	1.57	3600	
55	Mn	72	1	897.30	897.30	ppb	2.59	18000	
59	Co	72	1	17.14	17.14	ppb	1.94	3600	
60	Ni	72	1	25.59	25.59	ppb	0.95	3600	
63	Cu	72	1	32.66	32.66	ppb	1.36	3600	
66	Zn	72	1	104.80	104.80	ppb	1.44	3600	
75	As	72	1	8.14	8.14	ppb	0.96	3600	
78	Se	72	1	2.72	2.72	ppb	7.73	3600	
95	Mo	72	1	0.62	0.62	ppb	5.61	3600	
107	Ag	115	1	0.13	0.13	ppb	5.39	3600	
111	Cd	115	1	0.96	0.96	ppb	3.52	3600	
118	Sn	115	1	0.07	0.07	ppb	11.73	3600	
121	Sb	115	1	0.03	0.03	ppb	10.63	3600	
137	Ba	115	1	744.50	744.50	ppb	3.43	3600	
205	Tl	165	1	0.53	0.53	ppb	2.55	3600	
208	Pb	165	1	26.41	26.41	ppb	1.86	3600	
232	Th	165	1	17.01	17.01	ppb	1.27	1000	
238	U	165	1	2.03	2.03	ppb	1.83	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	463889	0.22	534602	86.8	30 - 120	
45	Sc	1	2626221	1.48	2551677	102.9	30 - 120	
72	Ge	1	1572958	0.93	1553005	101.3	30 - 120	
115	In	1	4239586	1.05	4260602	99.5	30 - 120	
165	Ho	1	8678145	1.96	8806612	98.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\086SMPL.D\086SMPL.D#
Date Acquired:	Nov 8 2011 11:01 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-10-b
Misc Info:	
Vial Number:	2502
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.69	1.69	ppb	8.11	3600	
51	V	72	1	177.10	177.10	ppb	1.79	3600	
52	Cr	72	1	36.71	36.71	ppb	2.06	3600	
55	Mn	72	1	493.00	493.00	ppb	2.05	18000	
59	Co	72	1	23.55	23.55	ppb	2.06	3600	
60	Ni	72	1	18.33	18.33	ppb	2.36	3600	
63	Cu	72	1	28.34	28.34	ppb	1.52	3600	
66	Zn	72	1	121.90	121.90	ppb	1.67	3600	
75	As	72	1	8.28	8.28	ppb	0.61	3600	
78	Se	72	1	2.52	2.52	ppb	16.36	3600	
95	Mo	72	1	0.56	0.56	ppb	8.23	3600	
107	Ag	115	1	0.09	0.09	ppb	1.72	3600	
111	Cd	115	1	0.65	0.65	ppb	6.62	3600	
118	Sn	115	1	0.15	0.15	ppb	5.95	3600	
121	Sb	115	1	0.01	0.01	ppb	19.11	3600	
137	Ba	115	1	2,291.00	2291.00	ppb	1.98	3600	
205	Tl	165	1	0.32	0.32	ppb	2.16	3600	
208	Pb	165	1	13.17	13.17	ppb	1.13	3600	
232	Th	165	1	10.99	10.99	ppb	1.21	1000	
238	U	165	1	1.73	1.73	ppb	0.78	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	468916	0.37	534602	87.7	30 - 120	
45	Sc	1	2724153	1.08	2551677	106.8	30 - 120	
72	Ge	1	1568483	1.79	1553005	101.0	30 - 120	
115	In	1	4203131	1.16	4260602	98.7	30 - 120	
165	Ho	1	8665851	0.30	8806612	98.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\087_CCV.D\087_CCV.D#
Date Acquired:	Nov 8 2011 11:04 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	54.40	ppb	2.66	50	108.8	90 - 110	
51	V	72	1	50.74	ppb	2.29	50	101.5	90 - 110	
52	Cr	72	1	50.01	ppb	1.83	50	100.0	90 - 110	
55	Mn	72	1	51.25	ppb	1.36	50	102.5	90 - 110	
59	Co	72	1	50.97	ppb	1.58	50	101.9	90 - 110	
60	Ni	72	1	50.37	ppb	0.76	50	100.7	90 - 110	
63	Cu	72	1	49.90	ppb	2.38	50	99.8	90 - 110	
66	Zn	72	1	49.44	ppb	1.01	50	98.9	90 - 110	
75	As	72	1	51.15	ppb	1.93	50	102.3	90 - 110	
78	Se	72	1	51.39	ppb	4.27	50	102.8	90 - 110	
95	Mo	72	1	50.83	ppb	1.00	50	101.7	90 - 110	
107	Ag	115	1	50.43	ppb	1.33	50	100.9	90 - 110	
111	Cd	115	1	49.58	ppb	0.28	50	99.2	90 - 110	
118	Sn	115	1	48.17	ppb	0.38	50	96.3	90 - 110	
121	Sb	115	1	49.52	ppb	1.20	50	99.0	90 - 110	
137	Ba	115	1	51.48	ppb	1.86	50	103.0	90 - 110	
205	Tl	165	1	51.27	ppb	0.36	50	102.5	90 - 110	
208	Pb	165	1	49.28	ppb	0.16	50	98.6	90 - 110	
232	Th	165	1	49.73	ppb	1.49	50	99.5	90 - 110	
238	U	165	1	48.34	ppb	0.66	50	96.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	488213	0.69	534602	91.3	30 - 120	
45	Sc	1	2624154	1.49	2551677	102.8	30 - 120	
72	Ge	1	1637499	0.88	1553005	105.4	30 - 120	
115	In	1	4499395	0.21	4260602	105.6	30 - 120	
165	Ho	1	8951159	0.73	8806612	101.6	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\088_CCB.D\088_CCB.D#
Date Acquired:	Nov 8 2011 11:07 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.005	ppb	319.93	1.00	
51	V	72	1	0.020	ppb	85.43	1.00	
52	Cr	72	1	0.012	ppb	162.69	1.00	
55	Mn	72	1	0.061	ppb	8.14	1.00	
59	Co	72	1	0.008	ppb	16.49	1.00	
60	Ni	72	1	-0.016	ppb	76.11	1.00	
63	Cu	72	1	-0.001	ppb	155.73	1.00	
66	Zn	72	1	-0.015	ppb	66.63	1.00	
75	As	72	1	0.009	ppb	53.48	1.00	
78	Se	72	1	0.146	ppb	93.95	1.00	
95	Mo	72	1	0.007	ppb	85.17	1.00	
107	Ag	115	1	0.009	ppb	22.42	1.00	
111	Cd	115	1	0.004	ppb	149.01	1.00	
118	Sn	115	1	0.005	ppb	255.83	1.00	
121	Sb	115	1	0.014	ppb	16.88	1.00	
137	Ba	115	1	0.087	ppb	7.64	1.00	
205	Tl	165	1	0.020	ppb	10.85	1.00	
208	Pb	165	1	0.009	ppb	3.08	1.00	
232	Th	165	1	0.024	ppb	3.90	1.00	
238	U	165	1	0.009	ppb	2.30	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493774	0.32	534602	92.4	30 - 120	
45	Sc	1	2668806	0.59	2551677	104.6	30 - 120	
72	Ge	1	1647268	2.11	1553005	106.1	30 - 120	
115	In	1	4528016	1.57	4260602	106.3	30 - 120	
165	Ho	1	9030484	1.67	8806612	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\089WASH.D\089WASH.D#
Date Acquired: Nov 8 2011 11:10 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.222 ppb	8.68	1.30	
51	V	72	1	5.043 ppb	3.12	6.50	
52	Cr	72	1	2.237 ppb	4.13	2.60	
55	Mn	72	1	1.307 ppb	5.12	1.30	
59	Co	72	1	1.100 ppb	5.00	1.30	
60	Ni	72	1	2.315 ppb	4.71	2.60	
63	Cu	72	1	2.238 ppb	3.25	2.60	
66	Zn	72	1	10.600 ppb	3.71	13.00	
75	As	72	1	5.385 ppb	1.74	6.50	
78	Se	72	1	5.634 ppb	7.91	6.50	
95	Mo	72	1	2.257 ppb	3.78	2.60	
107	Ag	115	1	5.194 ppb	1.81	6.50	
111	Cd	115	1	1.095 ppb	4.81	1.30	
118	Sn	115	1	10.110 ppb	5.23	13.00	
121	Sb	115	1	2.127 ppb	5.68	2.60	
137	Ba	115	1	1.232 ppb	3.77	1.30	
205	Tl	165	1	1.134 ppb	3.80	1.30	
208	Pb	165	1	1.110 ppb	4.25	1.30	
232	Th	165	1	2.143 ppb	6.98	2.60	
238	U	165	1	1.079 ppb	6.45	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	490831	2.82	534602	91.8	30 - 120	
45	Sc	1	2577577	3.93	2551677	101.0	30 - 120	
72	Ge	1	1626318	3.06	1553005	104.7	30 - 120	
115	In	1	4460998	3.25	4260602	104.7	30 - 120	
165	Ho	1	8744665	4.07	8806612	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\090AREF.D\090AREF.D#
Date Acquired: Nov 8 2011 11:13 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-13-a
Misc Info:
Vial Number: 2503
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.50	2.50	ppb	3.88	3600	
51	V	72	1	91.59	91.59	ppb	0.88	3600	
52	Cr	72	1	41.86	41.86	ppb	0.87	3600	
55	Mn	72	1	788.10	788.10	ppb	1.01	18000	
59	Co	72	1	17.51	17.51	ppb	0.96	3600	
60	Ni	72	1	34.42	34.42	ppb	0.53	3600	
63	Cu	72	1	36.19	36.19	ppb	0.97	3600	
66	Zn	72	1	127.40	127.40	ppb	1.04	3600	
75	As	72	1	11.56	11.56	ppb	1.52	3600	
78	Se	72	1	3.75	3.75	ppb	9.98	3600	
95	Mo	72	1	0.64	0.64	ppb	7.41	3600	
107	Ag	115	1	0.23	0.23	ppb	6.93	3600	
111	Cd	115	1	1.16	1.16	ppb	5.21	3600	
118	Sn	115	1	0.14	0.14	ppb	4.04	3600	
121	Sb	115	1	0.03	0.03	ppb	13.71	3600	
137	Ba	115	1	578.10	578.10	ppb	2.17	3600	
205	Tl	165	1	0.70	0.70	ppb	0.93	3600	
208	Pb	165	1	30.66	30.66	ppb	0.57	3600	
232	Th	165	1	23.83	23.83	ppb	1.56	1000	
238	U	165	1	2.37	2.37	ppb	1.78	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457557	1.41	534602	85.6	30 - 120	
45	Sc	1	2571793	0.67	2551677	100.8	30 - 120	
72	Ge	1	1545349	0.55	1553005	99.5	30 - 120	
115	In	1	4121207	1.40	4260602	96.7	30 - 120	
165	Ho	1	8424704	0.56	8806612	95.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\091SDIL.D\091SDIL.D#
Date Acquired:	Nov 8 2011 11:16 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-13-a SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	2504
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\090AREF.D\090AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.48	ppb	14.30	0.50	96.1	90 - 110	
51	V	72	1	17.84	ppb	0.73	18.32	97.4	90 - 110	
52	Cr	72	1	8.23	ppb	1.26	8.37	98.3	90 - 110	
55	Mn	72	1	163.90	ppb	0.76	157.62	104.0	90 - 110	
59	Co	72	1	3.63	ppb	1.80	3.50	103.5	90 - 110	
60	Ni	72	1	7.08	ppb	0.08	6.88	102.8	90 - 110	
63	Cu	72	1	7.70	ppb	0.36	7.24	106.3	90 - 110	
66	Zn	72	1	26.44	ppb	0.94	25.48	103.8	90 - 110	
75	As	72	1	2.37	ppb	0.18	2.31	102.3	90 - 110	
78	Se	72	1	0.93	ppb	10.53	0.75	124.6	90 - 110	
95	Mo	72	1	0.14	ppb	7.92	0.13	107.5	90 - 110	
107	Ag	115	1	0.05	ppb	11.26	0.05	100.5	90 - 110	
111	Cd	115	1	0.23	ppb	8.52	0.23	100.4	90 - 110	
118	Sn	115	1	0.12	ppb	7.36	0.03	423.7	90 - 110	
121	Sb	115	1	0.01	ppb	4.54	0.01	121.3	90 - 110	
137	Ba	115	1	111.40	ppb	1.44	115.62	96.4	90 - 110	
205	Tl	165	1	0.14	ppb	0.86	0.14	102.6	90 - 110	
208	Pb	165	1	6.14	ppb	2.13	6.13	100.2	90 - 110	
232	Th	165	1	4.56	ppb	1.94	4.77	95.7	90 - 110	
238	U	165	1	0.46	ppb	1.28	0.47	97.4	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	481319	1.26	534602	90.0	30 - 120	
45	Sc	1	2614390	0.48	2551677	102.5	30 - 120	
72	Ge	1	1605727	1.16	1553005	103.4	30 - 120	
115	In	1	4426658	1.51	4260602	103.9	30 - 120	
165	Ho	1	8932475	1.25	8806612	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\092PDS.D\092PDS.D#
Date Acquired:	Nov 8 2011 11:18 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-13-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	2505
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	216.70	2.50	ppb	1.54	200	107.0	75 - 125	
51 V	72	1	276.40	91.59	ppb	1.63	200	94.8	75 - 125	
52 Cr	72	1	230.50	41.86	ppb	2.46	200	95.3	75 - 125	
55 Mn	72	1	956.00	788.10	ppb	1.65	200	96.8	75 - 125	
59 Co	72	1	204.90	17.51	ppb	2.42	200	94.2	75 - 125	
60 Ni	72	1	229.20	34.42	ppb	2.43	200	97.8	75 - 125	
63 Cu	72	1	215.20	36.19	ppb	2.08	200	91.1	75 - 125	
66 Zn	72	1	315.70	127.40	ppb	2.61	200	96.4	75 - 125	
75 As	72	1	211.10	11.56	ppb	1.79	200	99.8	75 - 125	
78 Se	72	1	202.90	3.75	ppb	0.33	200	99.6	75 - 125	
95 Mo	72	1	208.20	0.64	ppb	2.75	200	103.8	75 - 125	
107 Ag	115	1	48.64	0.23	ppb	1.42	50	96.8	75 - 125	
111 Cd	115	1	199.50	1.16	ppb	0.93	200	99.2	75 - 125	
118 Sn	115	1	198.80	0.14	ppb	1.53	200	99.3	75 - 125	
121 Sb	115	1	203.50	0.03	ppb	0.83	200	101.7	75 - 125	
137 Ba	115	1	766.20	578.10	ppb	1.64	200	98.5	75 - 125	
205 Tl	165	1	193.20	0.70	ppb	0.16	200	96.3	75 - 125	
208 Pb	165	1	215.30	30.66	ppb	1.14	200	93.3	75 - 125	
232 Th	165	1	22.96	23.83	ppb	2.29	200	10.3	75 - 125	
238 U	165	1	190.40	2.37	ppb	0.35	200	94.1	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	455900	1.17	534602	85.3	30 - 120	
45 Sc	1	2574870	1.63	2551677	100.9	30 - 120	
72 Ge	1	1528049	2.09	1553005	98.4	30 - 120	
115 In	1	4110802	0.97	4260602	96.5	30 - 120	
165 Ho	1	8482258	0.51	8806612	96.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\093_MS.D\093_MS.D#
Date Acquired:	Nov 8 2011 11:21 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-13-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	2506
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	46.14	2.50	ppb	1.57	40	108.6	50 - 150	
51 V	72	1	132.40	91.59	ppb	1.37	40	100.6	50 - 150	
52 Cr	72	1	79.18	41.86	ppb	2.21	40	96.7	50 - 150	
55 Mn	72	1	788.70	788.10	ppb	0.39	40	95.2	50 - 150	
59 Co	72	1	57.02	17.51	ppb	1.82	40	99.1	50 - 150	
60 Ni	72	1	69.07	34.42	ppb	0.45	40	92.8	50 - 150	
63 Cu	72	1	72.77	36.19	ppb	1.43	40	95.5	50 - 150	
66 Zn	72	1	151.80	127.40	ppb	0.58	40	90.7	50 - 150	
75 As	72	1	51.03	11.56	ppb	0.93	40	99.0	50 - 150	
78 Se	72	1	42.80	3.75	ppb	2.26	40	97.8	50 - 150	
95 Mo	72	1	28.65	0.64	ppb	0.60	40	70.5	50 - 150	
107 Ag	115	1	37.52	0.23	ppb	0.49	40	93.3	50 - 150	
111 Cd	115	1	40.82	1.16	ppb	0.78	40	99.2	50 - 150	
118 Sn	115	1	3.44	0.14	ppb	1.79	40	8.6	50 - 150	
121 Sb	115	1	0.96	0.03	ppb	3.04	40	2.4	50 - 150	
137 Ba	115	1	606.40	578.10	ppb	0.74	40	98.1	50 - 150	
205 Tl	165	1	41.04	0.70	ppb	0.63	40	100.8	50 - 150	
208 Pb	165	1	65.14	30.66	ppb	0.19	40	92.2	50 - 150	
232 Th	165	1	60.55	23.83	ppb	0.44	40	94.9	50 - 150	
238 U	165	1	42.47	2.37	ppb	0.55	40	100.2	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	461248	1.31	534602	86.3	30 - 120	
45 Sc	1	2583516	1.01	2551677	101.2	30 - 120	
72 Ge	1	1512809	1.09	1553005	97.4	30 - 120	
115 In	1	4172113	0.67	4260602	97.9	30 - 120	
165 Ho	1	8492205	0.44	8806612	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\094_MSD.D\094_MSD.D#
Date Acquired:	Nov 8 2011 11:24 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-13-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	2507
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\093_MS.D\093_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	47.32	ppb	1.24	46.14	2.53	20	
51	V	72	1	126.90	ppb	0.87	132.40	4.24	20	
52	Cr	72	1	80.25	ppb	1.22	79.18	1.34	20	
55	Mn	72	1	786.40	ppb	1.68	788.70	0.29	20	
59	Co	72	1	56.90	ppb	0.73	57.02	0.21	20	
60	Ni	72	1	71.02	ppb	1.03	69.07	2.78	20	
63	Cu	72	1	74.33	ppb	0.61	72.77	2.12	20	
66	Zn	72	1	156.50	ppb	0.93	151.80	3.05	20	
75	As	72	1	50.85	ppb	1.61	51.03	0.35	20	
78	Se	72	1	42.35	ppb	2.43	42.80	1.06	20	
95	Mo	72	1	28.34	ppb	1.48	28.65	1.09	20	
107	Ag	115	1	39.34	ppb	1.39	37.52	4.74	20	
111	Cd	115	1	41.71	ppb	1.74	40.82	2.16	20	
118	Sn	115	1	3.56	ppb	1.13	3.44	3.40	20	
121	Sb	115	1	1.03	ppb	3.40	0.96	7.17	20	
137	Ba	115	1	594.10	ppb	3.35	606.40	2.05	20	
205	Tl	165	1	41.35	ppb	0.89	41.04	0.75	20	
208	Pb	165	1	67.35	ppb	1.24	65.14	3.34	20	
232	Th	165	1	61.67	ppb	1.44	60.55	1.83	20	
238	U	165	1	42.90	ppb	2.28	42.47	1.01	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454726	0.59	534602	85.1	30 - 120	
45	Sc	1	2591223	0.28	2551677	101.5	30 - 120	
72	Ge	1	1547985	1.37	1553005	99.7	30 - 120	
115	In	1	4169095	2.25	4260602	97.9	30 - 120	
165	Ho	1	8520215	0.28	8806612	96.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\095SMPL.D\095SMPL.D#
Date Acquired:	Nov 8 2011 11:27 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-11-b
Misc Info:	
Vial Number:	2508
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.24	2.24	ppb	7.21	3600	
51	V	72	1	102.70	102.70	ppb	1.36	3600	
52	Cr	72	1	34.58	34.58	ppb	1.87	3600	
55	Mn	72	1	765.60	765.60	ppb	0.94	18000	
59	Co	72	1	17.17	17.17	ppb	1.57	3600	
60	Ni	72	1	28.47	28.47	ppb	0.96	3600	
63	Cu	72	1	36.22	36.22	ppb	0.71	3600	
66	Zn	72	1	111.90	111.90	ppb	1.01	3600	
75	As	72	1	8.25	8.25	ppb	0.76	3600	
78	Se	72	1	3.06	3.06	ppb	7.87	3600	
95	Mo	72	1	0.52	0.52	ppb	6.75	3600	
107	Ag	115	1	0.21	0.21	ppb	2.73	3600	
111	Cd	115	1	0.99	0.99	ppb	4.01	3600	
118	Sn	115	1	0.07	0.07	ppb	17.15	3600	
121	Sb	115	1	0.03	0.03	ppb	15.10	3600	
137	Ba	115	1	556.50	556.50	ppb	1.65	3600	
205	Tl	165	1	0.59	0.59	ppb	1.15	3600	
208	Pb	165	1	24.28	24.28	ppb	0.88	3600	
232	Th	165	1	19.10	19.10	ppb	1.84	1000	
238	U	165	1	2.12	2.12	ppb	1.50	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457270	0.70	534602	85.5	30 - 120	
45	Sc	1	2599628	0.91	2551677	101.9	30 - 120	
72	Ge	1	1544148	1.09	1553005	99.4	30 - 120	
115	In	1	4164817	0.67	4260602	97.8	30 - 120	
165	Ho	1	8424628	0.87	8806612	95.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\096SMPL.D\096SMPL.D#
Date Acquired:	Nov 8 2011 11:30 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-12-a
Misc Info:	
Vial Number:	2509
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.85	0.85	ppb	13.69	3600	
51	V	72	1	220.40	220.40	ppb	1.32	3600	
52	Cr	72	1	27.92	27.92	ppb	1.62	3600	
55	Mn	72	1	478.20	478.20	ppb	1.68	18000	
59	Co	72	1	22.95	22.95	ppb	1.64	3600	
60	Ni	72	1	18.16	18.16	ppb	1.65	3600	
63	Cu	72	1	26.51	26.51	ppb	1.40	3600	
66	Zn	72	1	99.80	99.80	ppb	0.61	3600	
75	As	72	1	6.65	6.65	ppb	0.72	3600	
78	Se	72	1	1.49	1.49	ppb	9.46	3600	
95	Mo	72	1	1.06	1.06	ppb	3.84	3600	
107	Ag	115	1	0.12	0.12	ppb	4.84	3600	
111	Cd	115	1	0.87	0.87	ppb	9.67	3600	
118	Sn	115	1	0.19	0.19	ppb	14.39	3600	
121	Sb	115	1	0.02	0.02	ppb	14.34	3600	
137	Ba	115	1	577.20	577.20	ppb	1.52	3600	
205	Tl	165	1	0.44	0.44	ppb	1.03	3600	
208	Pb	165	1	13.86	13.86	ppb	0.26	3600	
232	Th	165	1	14.03	14.03	ppb	0.72	1000	
238	U	165	1	3.48	3.48	ppb	0.62	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	464157	1.29	534602	86.8	30 - 120	
45	Sc	1	2743427	0.78	2551677	107.5	30 - 120	
72	Ge	1	1591150	1.27	1553005	102.5	30 - 120	
115	In	1	4248036	0.70	4260602	99.7	30 - 120	
165	Ho	1	8673004	0.45	8806612	98.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\097_CCV.D\097_CCV.D#
Date Acquired:	Nov 8 2011 11:33 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	54.44	ppb	1.68	50	108.9	90 - 110	
51	V	72	1	51.12	ppb	1.63	50	102.2	90 - 110	
52	Cr	72	1	50.60	ppb	1.28	50	101.2	90 - 110	
55	Mn	72	1	51.09	ppb	2.23	50	102.2	90 - 110	
59	Co	72	1	51.23	ppb	2.31	50	102.5	90 - 110	
60	Ni	72	1	50.29	ppb	1.80	50	100.6	90 - 110	
63	Cu	72	1	49.91	ppb	2.21	50	99.8	90 - 110	
66	Zn	72	1	49.17	ppb	1.20	50	98.3	90 - 110	
75	As	72	1	51.05	ppb	0.78	50	102.1	90 - 110	
78	Se	72	1	51.84	ppb	3.68	50	103.7	90 - 110	
95	Mo	72	1	50.23	ppb	0.58	50	100.5	90 - 110	
107	Ag	115	1	50.51	ppb	2.46	50	101.0	90 - 110	
111	Cd	115	1	49.50	ppb	1.30	50	99.0	90 - 110	
118	Sn	115	1	47.94	ppb	1.14	50	95.9	90 - 110	
121	Sb	115	1	49.36	ppb	1.56	50	98.7	90 - 110	
137	Ba	115	1	50.89	ppb	1.41	50	101.8	90 - 110	
205	Tl	165	1	50.94	ppb	0.36	50	101.9	90 - 110	
208	Pb	165	1	49.69	ppb	0.79	50	99.4	90 - 110	
232	Th	165	1	50.32	ppb	0.77	50	100.6	90 - 110	
238	U	165	1	48.94	ppb	2.34	50	97.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	483293	0.18	534602	90.4	30 - 120	
45	Sc	1	2661555	1.80	2551677	104.3	30 - 120	
72	Ge	1	1659550	0.58	1553005	106.9	30 - 120	
115	In	1	4532716	1.21	4260602	106.4	30 - 120	
165	Ho	1	8815403	1.35	8806612	100.1	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\098_CCB.D\098_CCB.D#
Date Acquired: Nov 8 2011 11:36 pm
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.027	ppb	113.36	1.00	
51	V	72	1	0.033	ppb	24.28	1.00	
52	Cr	72	1	0.000	ppb	3928.00	1.00	
55	Mn	72	1	0.070	ppb	3.91	1.00	
59	Co	72	1	0.010	ppb	13.33	1.00	
60	Ni	72	1	-0.013	ppb	50.36	1.00	
63	Cu	72	1	0.000	ppb	5269.10	1.00	
66	Zn	72	1	-0.009	ppb	76.08	1.00	
75	As	72	1	0.010	ppb	53.24	1.00	
78	Se	72	1	0.393	ppb	20.82	1.00	
95	Mo	72	1	0.010	ppb	36.95	1.00	
107	Ag	115	1	0.010	ppb	4.77	1.00	
111	Cd	115	1	0.011	ppb	32.58	1.00	
118	Sn	115	1	0.010	ppb	79.96	1.00	
121	Sb	115	1	0.014	ppb	18.17	1.00	
137	Ba	115	1	0.061	ppb	5.62	1.00	
205	Tl	165	1	0.014	ppb	5.60	1.00	
208	Pb	165	1	0.010	ppb	5.35	1.00	
232	Th	165	1	0.025	ppb	2.77	1.00	
238	U	165	1	0.010	ppb	10.14	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	488926	0.60	534602	91.5	30 - 120	
45	Sc	1	2686689	1.75	2551677	105.3	30 - 120	
72	Ge	1	1680917	1.05	1553005	108.2	30 - 120	
115	In	1	4588004	1.37	4260602	107.7	30 - 120	
165	Ho	1	8929259	0.77	8806612	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\099WASH.D\099WASH.D#
Date Acquired: Nov 8 2011 11:38 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.231 ppb	8.93	1.30	
51	V	72	1	5.040 ppb	0.61	6.50	
52	Cr	72	1	2.175 ppb	1.49	2.60	
55	Mn	72	1	1.277 ppb	3.07	1.30	
59	Co	72	1	1.108 ppb	1.96	1.30	
60	Ni	72	1	2.332 ppb	1.64	2.60	
63	Cu	72	1	2.274 ppb	0.45	2.60	
66	Zn	72	1	10.560 ppb	1.32	13.00	
75	As	72	1	5.401 ppb	3.13	6.50	
78	Se	72	1	5.660 ppb	2.57	6.50	
95	Mo	72	1	2.181 ppb	2.58	2.60	
107	Ag	115	1	5.159 ppb	0.91	6.50	
111	Cd	115	1	1.081 ppb	1.41	1.30	
118	Sn	115	1	10.040 ppb	0.87	13.00	
121	Sb	115	1	2.108 ppb	2.02	2.60	
137	Ba	115	1	1.188 ppb	2.31	1.30	
205	Tl	165	1	1.107 ppb	1.44	1.30	
208	Pb	165	1	1.087 ppb	1.35	1.30	
232	Th	165	1	2.060 ppb	3.07	2.60	
238	U	165	1	1.038 ppb	2.69	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497056	1.62	534602	93.0	30 - 120	
45	Sc	1	2702119	0.95	2551677	105.9	30 - 120	
72	Ge	1	1667327	1.26	1553005	107.4	30 - 120	
115	In	1	4548174	0.38	4260602	106.7	30 - 120	
165	Ho	1	8926114	1.50	8806612	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\100_BLK.D\100_BLK.D#
Date Acquired:	Nov 8 2011 11:41 pm
Operator:	LRD
Sample Name:	mb 280-93880/1-a
Misc Info:	BLANK 93880 Soil DoD4/6020A
Vial Number:	2510
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.005 ppb	320.39	2.00	
51	V	72	1	0.014 ppb	186.61	2.00	
52	Cr	72	1	0.067 ppb	8.25	2.00	
55	Mn	72	1	0.084 ppb	7.16	2.00	
59	Co	72	1	0.005 ppb	29.08	2.00	
60	Ni	72	1	0.017 ppb	65.43	2.00	
63	Cu	72	1	0.133 ppb	6.47	2.00	
66	Zn	72	1	0.318 ppb	6.77	2.00	
75	As	72	1	0.005 ppb	75.66	2.00	
78	Se	72	1	0.216 ppb	58.41	2.00	
95	Mo	72	1	0.011 ppb	22.59	2.00	
107	Ag	115	1	0.005 ppb	37.55	2.00	
111	Cd	115	1	0.006 ppb	133.97	2.00	
118	Sn	115	1	0.111 ppb	10.78	2.00	
121	Sb	115	1	0.008 ppb	24.28	2.00	
137	Ba	115	1	0.118 ppb	6.17	2.00	
205	Tl	165	1	0.005 ppb	26.72	2.00	
208	Pb	165	1	0.017 ppb	4.64	2.00	
232	Th	165	1	0.011 ppb	15.90	2.00	
238	U	165	1	0.006 ppb	5.74	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493996	0.60	534602	92.4	30 - 120	
45	Sc	1	2703211	0.79	2551677	105.9	30 - 120	
72	Ge	1	1700218	1.93	1553005	109.5	30 - 120	
115	In	1	4584297	1.67	4260602	107.6	30 - 120	
165	Ho	1	8968320	1.20	8806612	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\101_LCS.D\101_LCS.D#
Date Acquired:	Nov 8 2011 11:44 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-93880/2-a
Misc Info:	LCS
Vial Number:	2511
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	43.74	2.18	40	109.4	80 - 120	
51 V	72	1	40.92	0.53	40	102.3	80 - 120	
52 Cr	72	1	41.32	1.76	40	103.3	80 - 120	
55 Mn	72	1	40.08	1.59	40	100.2	80 - 120	
59 Co	72	1	41.56	2.43	40	103.9	80 - 120	
60 Ni	72	1	40.80	1.21	40	102.0	80 - 120	
63 Cu	72	1	39.98	1.93	40	100.0	80 - 120	
66 Zn	72	1	38.98	0.99	40	97.5	80 - 120	
75 As	72	1	41.33	1.36	40	103.3	80 - 120	
78 Se	72	1	43.55	5.08	40	108.9	80 - 120	
95 Mo	72	1	40.40	1.64	40	101.0	80 - 120	
107 Ag	115	1	40.19	0.35	40	100.5	80 - 120	
111 Cd	115	1	39.94	1.10	40	99.9	80 - 120	
118 Sn	115	1	38.89	0.40	40	97.2	80 - 120	
121 Sb	115	1	39.59	0.56	40	99.0	80 - 120	
137 Ba	115	1	41.63	0.62	40	104.1	80 - 120	
205 Tl	165	1	41.31	1.12	40	103.3	80 - 120	
208 Pb	165	1	40.15	1.85	40	100.4	80 - 120	
232 Th	165	1	39.25	1.24	40	98.1	80 - 120	
238 U	165	1	39.52	1.43	40	98.8	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	498189	1.81	534602	93.2	30 - 120	
45 Sc	1	2753057	0.42	2551677	107.9	30 - 120	
72 Ge	1	1687917	1.64	1553005	108.7	30 - 120	
115 In	1	4568836	0.59	4260602	107.2	30 - 120	
165 Ho	1	8974050	0.94	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\102AREF.D\102AREF.D#
Date Acquired:	Nov 8 2011 11:47 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-1-a
Misc Info:	
Vial Number:	2512
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.44	0.44	ppb	12.96	3600	
51	V	72	1	19.89	19.89	ppb	1.49	3600	
52	Cr	72	1	12.90	12.90	ppb	1.18	3600	
55	Mn	72	1	63.34	63.34	ppb	1.48	18000	
59	Co	72	1	2.17	2.17	ppb	2.40	3600	
60	Ni	72	1	6.91	6.91	ppb	1.23	3600	
63	Cu	72	1	6.32	6.32	ppb	1.41	3600	
66	Zn	72	1	24.10	24.10	ppb	1.35	3600	
75	As	72	1	5.00	5.00	ppb	0.96	3600	
78	Se	72	1	1.34	1.34	ppb	15.42	3600	
95	Mo	72	1	1.39	1.39	ppb	2.76	3600	
107	Ag	115	1	0.05	0.05	ppb	7.73	3600	
111	Cd	115	1	0.20	0.20	ppb	18.98	3600	
118	Sn	115	1	0.49	0.49	ppb	2.08	3600	
121	Sb	115	1	0.03	0.03	ppb	14.99	3600	
137	Ba	115	1	10.93	10.93	ppb	2.96	3600	
205	Tl	165	1	0.22	0.22	ppb	5.27	3600	
208	Pb	165	1	8.97	8.97	ppb	0.12	3600	
232	Th	165	1	4.55	4.55	ppb	0.89	1000	
238	U	165	1	1.53	1.53	ppb	0.76	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	486146	0.93	534602	90.9	30 - 120	
45	Sc	1	2675030	1.93	2551677	104.8	30 - 120	
72	Ge	1	1640612	0.82	1553005	105.6	30 - 120	
115	In	1	4517045	2.14	4260602	106.0	30 - 120	
165	Ho	1	8892010	0.31	8806612	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\103SDIL.D\103SDIL.D#
Date Acquired: Nov 8 2011 11:50 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-1-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\102AREF.D\102AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.09	ppb	1.09	0.09	99.1	90 - 110	
51	V	72	1	3.98	ppb	2.24	3.98	100.0	90 - 110	
52	Cr	72	1	2.55	ppb	0.87	2.58	98.8	90 - 110	
55	Mn	72	1	12.24	ppb	2.15	12.67	96.6	90 - 110	
59	Co	72	1	0.44	ppb	1.58	0.43	100.6	90 - 110	
60	Ni	72	1	1.37	ppb	3.08	1.38	98.9	90 - 110	
63	Cu	72	1	1.28	ppb	3.28	1.26	101.1	90 - 110	
66	Zn	72	1	4.84	ppb	0.97	4.82	100.4	90 - 110	
75	As	72	1	1.02	ppb	3.68	1.00	101.8	90 - 110	
78	Se	72	1	0.38	ppb	32.76	0.27	143.6	90 - 110	
95	Mo	72	1	0.28	ppb	7.96	0.28	101.7	90 - 110	
107	Ag	115	1	0.01	ppb	12.65	0.01	103.5	90 - 110	
111	Cd	115	1	0.05	ppb	34.56	0.04	132.5	90 - 110	
118	Sn	115	1	0.10	ppb	9.36	0.10	101.0	90 - 110	
121	Sb	115	1	0.01	ppb	24.41	0.01	147.3	90 - 110	
137	Ba	115	1	2.23	ppb	1.91	2.19	102.2	90 - 110	
205	Tl	165	1	0.04	ppb	3.17	0.04	96.9	90 - 110	
208	Pb	165	1	1.84	ppb	1.02	1.79	102.7	90 - 110	
232	Th	165	1	0.92	ppb	1.33	0.91	100.6	90 - 110	
238	U	165	1	0.30	ppb	0.83	0.31	98.4	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492353	1.04	534602	92.1	30 - 120	
45	Sc	1	2664971	0.22	2551677	104.4	30 - 120	
72	Ge	1	1691315	1.89	1553005	108.9	30 - 120	
115	In	1	4496459	0.58	4260602	105.5	30 - 120	
165	Ho	1	8975182	0.82	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\104PDS.D\104PDS.D#
Date Acquired:	Nov 8 2011 11:53 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-1-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3102
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	212.30	0.44	ppb	0.69	200	105.9	75 - 125	
51 V	72	1	210.30	19.89	ppb	1.17	200	95.6	75 - 125	
52 Cr	72	1	203.30	12.90	ppb	1.09	200	95.5	75 - 125	
55 Mn	72	1	253.00	63.34	ppb	0.80	200	96.1	75 - 125	
59 Co	72	1	194.40	2.17	ppb	0.91	200	96.2	75 - 125	
60 Ni	72	1	208.90	6.91	ppb	1.30	200	101.0	75 - 125	
63 Cu	72	1	193.90	6.32	ppb	1.02	200	94.0	75 - 125	
66 Zn	72	1	214.40	24.10	ppb	0.63	200	95.7	75 - 125	
75 As	72	1	207.10	5.00	ppb	0.76	200	101.0	75 - 125	
78 Se	72	1	204.60	1.34	ppb	0.49	200	101.6	75 - 125	
95 Mo	72	1	205.70	1.39	ppb	0.48	200	102.1	75 - 125	
107 Ag	115	1	50.19	0.05	ppb	1.09	50	100.3	75 - 125	
111 Cd	115	1	201.10	0.20	ppb	0.43	200	100.5	75 - 125	
118 Sn	115	1	199.10	0.49	ppb	1.11	200	99.3	75 - 125	
121 Sb	115	1	202.30	0.03	ppb	1.02	200	101.1	75 - 125	
137 Ba	115	1	222.90	10.93	ppb	0.45	200	105.7	75 - 125	
205 Tl	165	1	194.50	0.22	ppb	0.75	200	97.1	75 - 125	
208 Pb	165	1	200.10	8.97	ppb	0.48	200	95.8	75 - 125	
232 Th	165	1	4.54	4.55	ppb	0.25	200	2.2	75 - 125	
238 U	165	1	191.20	1.53	ppb	1.00	200	94.9	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	493062	1.02	534602	92.2	30 - 120	
45 Sc	1	2652641	0.50	2551677	104.0	30 - 120	
72 Ge	1	1642853	0.32	1553005	105.8	30 - 120	
115 In	1	4425864	0.67	4260602	103.9	30 - 120	
165 Ho	1	8937534	1.20	8806612	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\105_MS.D\105_MS.D#
Date Acquired: Nov 8 2011 11:56 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-1-b ms
Misc Info: MATRIX SPIKE
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	44.48	0.44	ppb	3.61	40	110.0	50 - 150	
51 V	72	1	63.43	19.89	ppb	1.94	40	105.9	50 - 150	
52 Cr	72	1	55.03	12.90	ppb	1.30	40	104.0	50 - 150	
55 Mn	72	1	111.10	63.34	ppb	1.54	40	107.5	50 - 150	
59 Co	72	1	44.83	2.17	ppb	2.50	40	106.3	50 - 150	
60 Ni	72	1	48.24	6.91	ppb	2.22	40	102.8	50 - 150	
63 Cu	72	1	45.79	6.32	ppb	1.90	40	98.9	50 - 150	
66 Zn	72	1	66.49	24.10	ppb	0.99	40	103.7	50 - 150	
75 As	72	1	47.26	5.00	ppb	0.78	40	105.0	50 - 150	
78 Se	72	1	44.15	1.34	ppb	4.35	40	106.8	50 - 150	
95 Mo	72	1	40.83	1.39	ppb	0.91	40	98.6	50 - 150	
107 Ag	115	1	14.82	0.05	ppb	0.65	40	37.0	50 - 150	
111 Cd	115	1	41.74	0.20	ppb	0.52	40	103.8	50 - 150	
118 Sn	115	1	37.61	0.49	ppb	0.76	40	92.9	50 - 150	
121 Sb	115	1	8.85	0.03	ppb	1.13	40	22.1	50 - 150	
137 Ba	115	1	54.00	10.93	ppb	1.45	40	106.0	50 - 150	
205 Tl	165	1	42.61	0.22	ppb	2.37	40	105.9	50 - 150	
208 Pb	165	1	50.49	8.97	ppb	0.79	40	103.1	50 - 150	
232 Th	165	1	46.65	4.55	ppb	0.68	40	104.7	50 - 150	
238 U	165	1	43.31	1.53	ppb	1.69	40	104.3	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	487678	2.13	534602	91.2	30 - 120	
45 Sc	1	2532394	1.01	2551677	99.2	30 - 120	
72 Ge	1	1593066	0.87	1553005	102.6	30 - 120	
115 In	1	4359529	0.29	4260602	102.3	30 - 120	
165 Ho	1	8625710	1.18	8806612	97.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\106_MSD.D\106_MSD.D#
Date Acquired: Nov 8 2011 11:59 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-1-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\105_MS.D\105_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	42.69	ppb	1.40	44.48	4.11	20	
51	V	72	1	59.19	ppb	1.68	63.43	6.92	20	
52	Cr	72	1	51.98	ppb	1.85	55.03	5.70	20	
55	Mn	72	1	99.00	ppb	0.14	111.10	11.52	20	
59	Co	72	1	41.88	ppb	1.27	44.83	6.80	20	
60	Ni	72	1	45.60	ppb	1.09	48.24	5.63	20	
63	Cu	72	1	43.70	ppb	1.64	45.79	4.67	20	
66	Zn	72	1	62.28	ppb	0.73	66.49	6.54	20	
75	As	72	1	44.34	ppb	0.15	47.26	6.38	20	
78	Se	72	1	42.06	ppb	0.96	44.15	4.85	20	
95	Mo	72	1	38.11	ppb	1.22	40.83	6.89	20	
107	Ag	115	1	15.11	ppb	1.41	14.82	1.94	20	
111	Cd	115	1	40.18	ppb	0.97	41.74	3.81	20	
118	Sn	115	1	35.46	ppb	1.63	37.61	5.88	20	
121	Sb	115	1	7.61	ppb	1.18	8.85	15.03	20	
137	Ba	115	1	52.65	ppb	1.31	54.00	2.53	20	
205	Tl	165	1	40.05	ppb	0.43	42.61	6.19	20	
208	Pb	165	1	47.92	ppb	0.66	50.49	5.22	20	
232	Th	165	1	43.90	ppb	1.22	46.65	6.07	20	
238	U	165	1	40.89	ppb	0.48	43.31	5.75	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	488809	0.67	534602	91.4	30 - 120	
45	Sc	1	2595656	0.95	2551677	101.7	30 - 120	
72	Ge	1	1635754	0.42	1553005	105.3	30 - 120	
115	In	1	4405657	1.09	4260602	103.4	30 - 120	
165	Ho	1	8858417	0.98	8806612	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\107SMPL.D\107SMPL.D#
Date Acquired:	Nov 9 2011 12:02 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-2-c
Misc Info:	
Vial Number:	3105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.08	0.08	ppb	18.62	3600	
51	V	72	1	5.21	5.21	ppb	2.04	3600	
52	Cr	72	1	3.15	3.15	ppb	1.21	3600	
55	Mn	72	1	20.11	20.11	ppb	1.58	18000	
59	Co	72	1	0.72	0.72	ppb	1.84	3600	
60	Ni	72	1	1.70	1.70	ppb	2.47	3600	
63	Cu	72	1	0.86	0.86	ppb	4.58	3600	
66	Zn	72	1	4.80	4.80	ppb	2.03	3600	
75	As	72	1	1.82	1.82	ppb	1.91	3600	
78	Se	72	1	0.35	0.35	ppb	57.32	3600	
95	Mo	72	1	0.22	0.22	ppb	3.62	3600	
107	Ag	115	1	0.01	0.01	ppb	24.73	3600	
111	Cd	115	1	0.04	0.04	ppb	27.54	3600	
118	Sn	115	1	0.11	0.11	ppb	11.35	3600	
121	Sb	115	1	0.03	0.03	ppb	6.31	3600	
137	Ba	115	1	2.51	2.51	ppb	0.98	3600	
205	Tl	165	1	0.07	0.07	ppb	4.97	3600	
208	Pb	165	1	2.13	2.13	ppb	3.00	3600	
232	Th	165	1	2.74	2.74	ppb	2.59	1000	
238	U	165	1	0.59	0.59	ppb	1.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	490910	0.42	534602	91.8	30 - 120	
45	Sc	1	2640565	1.31	2551677	103.5	30 - 120	
72	Ge	1	1661576	0.68	1553005	107.0	30 - 120	
115	In	1	4545744	0.17	4260602	106.7	30 - 120	
165	Ho	1	8975960	1.44	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\108SMPL.D\108SMPL.D#
Date Acquired: Nov 9 2011 12:04 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-3-c
Misc Info:
Vial Number: 3106
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.05	0.05	ppb	14.23	3600	
51	V	72	1	5.27	5.27	ppb	0.88	3600	
52	Cr	72	1	2.32	2.32	ppb	0.18	3600	
55	Mn	72	1	10.30	10.30	ppb	0.92	18000	
59	Co	72	1	0.40	0.40	ppb	1.25	3600	
60	Ni	72	1	0.98	0.98	ppb	5.66	3600	
63	Cu	72	1	1.03	1.03	ppb	2.63	3600	
66	Zn	72	1	3.86	3.86	ppb	1.08	3600	
75	As	72	1	2.09	2.09	ppb	1.80	3600	
78	Se	72	1	0.36	0.36	ppb	45.55	3600	
95	Mo	72	1	0.15	0.15	ppb	4.75	3600	
107	Ag	115	1	0.01	0.01	ppb	6.97	3600	
111	Cd	115	1	0.03	0.03	ppb	8.77	3600	
118	Sn	115	1	0.11	0.11	ppb	11.83	3600	
121	Sb	115	1	0.03	0.03	ppb	9.08	3600	
137	Ba	115	1	1.98	1.98	ppb	1.21	3600	
205	Tl	165	1	0.04	0.04	ppb	4.20	3600	
208	Pb	165	1	1.87	1.87	ppb	3.10	3600	
232	Th	165	1	1.28	1.28	ppb	4.01	1000	
238	U	165	1	0.26	0.26	ppb	2.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489075	0.11	534602	91.5	30 - 120	
45	Sc	1	2656948	0.54	2551677	104.1	30 - 120	
72	Ge	1	1652907	0.17	1553005	106.4	30 - 120	
115	In	1	4526740	0.27	4260602	106.2	30 - 120	
165	Ho	1	8919034	2.28	8806612	101.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\109SMPL.D\109SMPL.D#
Date Acquired: Nov 9 2011 12:07 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-4-c
Misc Info:
Vial Number: 3107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.05	0.05	ppb	46.83	3600	
51	V	72	1	3.39	3.39	ppb	1.58	3600	
52	Cr	72	1	2.11	2.11	ppb	0.67	3600	
55	Mn	72	1	23.05	23.05	ppb	0.10	18000	
59	Co	72	1	0.83	0.83	ppb	1.60	3600	
60	Ni	72	1	1.31	1.31	ppb	3.59	3600	
63	Cu	72	1	0.92	0.92	ppb	4.99	3600	
66	Zn	72	1	4.64	4.64	ppb	1.55	3600	
75	As	72	1	1.29	1.29	ppb	3.83	3600	
78	Se	72	1	0.34	0.34	ppb	33.37	3600	
95	Mo	72	1	0.18	0.18	ppb	6.88	3600	
107	Ag	115	1	0.01	0.01	ppb	33.21	3600	
111	Cd	115	1	0.04	0.04	ppb	17.24	3600	
118	Sn	115	1	0.16	0.16	ppb	4.29	3600	
121	Sb	115	1	0.02	0.02	ppb	10.43	3600	
137	Ba	115	1	2.79	2.79	ppb	3.29	3600	
205	Tl	165	1	0.06	0.06	ppb	4.59	3600	
208	Pb	165	1	1.72	1.72	ppb	1.12	3600	
232	Th	165	1	1.07	1.07	ppb	1.21	1000	
238	U	165	1	0.26	0.26	ppb	3.40	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496580	0.68	534602	92.9	30 - 120	
45	Sc	1	2684954	1.25	2551677	105.2	30 - 120	
72	Ge	1	1670437	1.35	1553005	107.6	30 - 120	
115	In	1	4498627	0.70	4260602	105.6	30 - 120	
165	Ho	1	9028721	1.24	8806612	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\110_CCV.D\110_CCV.D#
Date Acquired:	Nov 9 2011 12:10 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.75	ppb	2.31	50	105.5	90 - 110	
51	V	72	1	50.58	ppb	0.99	50	101.2	90 - 110	
52	Cr	72	1	50.23	ppb	0.72	50	100.5	90 - 110	
55	Mn	72	1	50.72	ppb	0.52	50	101.4	90 - 110	
59	Co	72	1	51.33	ppb	0.26	50	102.7	90 - 110	
60	Ni	72	1	50.03	ppb	0.51	50	100.1	90 - 110	
63	Cu	72	1	50.03	ppb	0.52	50	100.1	90 - 110	
66	Zn	72	1	49.31	ppb	0.72	50	98.6	90 - 110	
75	As	72	1	50.94	ppb	0.63	50	101.9	90 - 110	
78	Se	72	1	50.92	ppb	3.76	50	101.8	90 - 110	
95	Mo	72	1	50.36	ppb	0.31	50	100.7	90 - 110	
107	Ag	115	1	51.32	ppb	1.37	50	102.6	90 - 110	
111	Cd	115	1	50.13	ppb	0.56	50	100.3	90 - 110	
118	Sn	115	1	48.51	ppb	0.64	50	97.0	90 - 110	
121	Sb	115	1	49.83	ppb	1.16	50	99.7	90 - 110	
137	Ba	115	1	51.75	ppb	1.67	50	103.5	90 - 110	
205	Tl	165	1	50.50	ppb	0.51	50	101.0	90 - 110	
208	Pb	165	1	48.76	ppb	1.35	50	97.5	90 - 110	
232	Th	165	1	49.43	ppb	1.75	50	98.9	90 - 110	
238	U	165	1	47.95	ppb	0.70	50	95.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496185	1.73	534602	92.8	30 - 120	
45	Sc	1	2677370	1.43	2551677	104.9	30 - 120	
72	Ge	1	1673249	0.17	1553005	107.7	30 - 120	
115	In	1	4534905	0.69	4260602	106.4	30 - 120	
165	Ho	1	9005990	1.11	8806612	102.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\111_CCB.D\111_CCB.D#
Date Acquired:	Nov 9 2011 12:13 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.004	ppb	0.00	1.00	
51	V	72	1	0.014	ppb	85.29	1.00	
52	Cr	72	1	0.035	ppb	191.70	1.00	
55	Mn	72	1	0.041	ppb	40.10	1.00	
59	Co	72	1	0.009	ppb	34.11	1.00	
60	Ni	72	1	-0.014	ppb	38.12	1.00	
63	Cu	72	1	-0.001	ppb	1051.40	1.00	
66	Zn	72	1	-0.002	ppb	428.30	1.00	
75	As	72	1	0.014	ppb	70.79	1.00	
78	Se	72	1	0.400	ppb	97.37	1.00	
95	Mo	72	1	0.016	ppb	47.38	1.00	
107	Ag	115	1	0.009	ppb	6.40	1.00	
111	Cd	115	1	0.003	ppb	272.14	1.00	
118	Sn	115	1	0.015	ppb	45.08	1.00	
121	Sb	115	1	0.022	ppb	18.36	1.00	
137	Ba	115	1	0.027	ppb	43.88	1.00	
205	Tl	165	1	0.026	ppb	12.21	1.00	
208	Pb	165	1	0.012	ppb	32.76	1.00	
232	Th	165	1	0.044	ppb	25.95	1.00	
238	U	165	1	0.013	ppb	20.91	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457249	14.58	534602	85.5	30 - 120	
45	Sc	1	2386957	18.28	2551677	93.5	30 - 120	
72	Ge	1	1536659	13.87	1553005	98.9	30 - 120	
115	In	1	4036575	19.07	4260602	94.7	30 - 120	
165	Ho	1	7918174	18.83	8806612	89.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\112WASH.D\112WASH.D#
Date Acquired:	Nov 9 2011 12:16 am
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.206 ppb	9.95	1.30	
51	V	72	1	5.013 ppb	2.22	6.50	
52	Cr	72	1	2.190 ppb	2.12	2.60	
55	Mn	72	1	1.260 ppb	1.27	1.30	
59	Co	72	1	1.100 ppb	1.84	1.30	
60	Ni	72	1	2.273 ppb	4.14	2.60	
63	Cu	72	1	2.209 ppb	0.77	2.60	
66	Zn	72	1	10.540 ppb	1.25	13.00	
75	As	72	1	5.382 ppb	1.06	6.50	
78	Se	72	1	6.090 ppb	3.99	6.50	
95	Mo	72	1	2.172 ppb	1.87	2.60	
107	Ag	115	1	5.170 ppb	1.56	6.50	
111	Cd	115	1	1.072 ppb	1.39	1.30	
118	Sn	115	1	9.919 ppb	1.79	13.00	
121	Sb	115	1	2.109 ppb	0.49	2.60	
137	Ba	115	1	1.154 ppb	2.10	1.30	
205	Tl	165	1	1.112 ppb	1.70	1.30	
208	Pb	165	1	1.087 ppb	2.56	1.30	
232	Th	165	1	2.060 ppb	1.42	2.60	
238	U	165	1	1.046 ppb	0.65	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501829	1.55	534602	93.9	30 - 120	
45	Sc	1	2686559	1.23	2551677	105.3	30 - 120	
72	Ge	1	1666577	0.67	1553005	107.3	30 - 120	
115	In	1	4543393	1.35	4260602	106.6	30 - 120	
165	Ho	1	8957957	1.52	8806612	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\113SMPL.D\113SMPL.D#
Date Acquired: Nov 9 2011 12:19 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-5-a
Misc Info:
Vial Number: 3108
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.08	0.08	ppb	125.53	3600	
51	V	72	1	6.05	6.05	ppb	0.98	3600	
52	Cr	72	1	3.29	3.29	ppb	0.35	3600	
55	Mn	72	1	19.25	19.25	ppb	0.92	18000	
59	Co	72	1	0.50	0.50	ppb	2.43	3600	
60	Ni	72	1	1.29	1.29	ppb	0.97	3600	
63	Cu	72	1	0.79	0.79	ppb	2.49	3600	
66	Zn	72	1	4.12	4.12	ppb	1.70	3600	
75	As	72	1	2.00	2.00	ppb	3.18	3600	
78	Se	72	1	0.52	0.52	ppb	28.68	3600	
95	Mo	72	1	0.22	0.22	ppb	7.03	3600	
107	Ag	115	1	0.01	0.01	ppb	29.92	3600	
111	Cd	115	1	0.04	0.04	ppb	6.08	3600	
118	Sn	115	1	0.10	0.10	ppb	13.84	3600	
121	Sb	115	1	0.03	0.03	ppb	22.34	3600	
137	Ba	115	1	2.45	2.45	ppb	2.87	3600	
205	Tl	165	1	0.06	0.06	ppb	2.80	3600	
208	Pb	165	1	2.77	2.77	ppb	0.73	3600	
232	Th	165	1	3.65	3.65	ppb	0.52	1000	
238	U	165	1	0.63	0.63	ppb	1.00	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497827	0.72	534602	93.1	30 - 120	
45	Sc	1	2654711	0.40	2551677	104.0	30 - 120	
72	Ge	1	1653534	0.51	1553005	106.5	30 - 120	
115	In	1	4512745	0.29	4260602	105.9	30 - 120	
165	Ho	1	8904111	0.41	8806612	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\114SMPL.D\114SMPL.D#
Date Acquired:	Nov 9 2011 12:22 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-6-c
Misc Info:	
Vial Number:	3109
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	86.89	3600	
51	V	72	1	2.82	2.82	ppb	2.26	3600	
52	Cr	72	1	1.81	1.81	ppb	1.35	3600	
55	Mn	72	1	16.16	16.16	ppb	0.87	18000	
59	Co	72	1	0.27	0.27	ppb	3.71	3600	
60	Ni	72	1	0.75	0.75	ppb	0.30	3600	
63	Cu	72	1	0.74	0.74	ppb	3.54	3600	
66	Zn	72	1	7.93	7.93	ppb	0.37	3600	
75	As	72	1	1.12	1.12	ppb	1.74	3600	
78	Se	72	1	0.64	0.64	ppb	6.69	3600	
95	Mo	72	1	0.14	0.14	ppb	11.88	3600	
107	Ag	115	1	0.01	0.01	ppb	3.64	3600	
111	Cd	115	1	0.03	0.03	ppb	29.20	3600	
118	Sn	115	1	0.09	0.09	ppb	2.74	3600	
121	Sb	115	1	0.02	0.02	ppb	9.49	3600	
137	Ba	115	1	1.91	1.91	ppb	2.88	3600	
205	Tl	165	1	0.05	0.05	ppb	3.61	3600	
208	Pb	165	1	1.69	1.69	ppb	2.81	3600	
232	Th	165	1	1.30	1.30	ppb	1.57	1000	
238	U	165	1	0.29	0.29	ppb	2.00	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497654	0.88	534602	93.1	30 - 120	
45	Sc	1	2635704	1.24	2551677	103.3	30 - 120	
72	Ge	1	1652821	1.15	1553005	106.4	30 - 120	
115	In	1	4505564	0.73	4260602	105.7	30 - 120	
165	Ho	1	8975754	1.03	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\115SMPL.D\115SMPL.D#
Date Acquired: Nov 9 2011 12:25 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-7-c
Misc Info:
Vial Number: 3110
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.09	0.09	ppb	79.56	3600	
51	V	72	1	3.14	3.14	ppb	1.58	3600	
52	Cr	72	1	2.46	2.46	ppb	1.22	3600	
55	Mn	72	1	13.11	13.11	ppb	2.55	18000	
59	Co	72	1	0.35	0.35	ppb	1.24	3600	
60	Ni	72	1	0.98	0.98	ppb	4.59	3600	
63	Cu	72	1	0.84	0.84	ppb	0.74	3600	
66	Zn	72	1	4.14	4.14	ppb	1.61	3600	
75	As	72	1	1.08	1.08	ppb	1.46	3600	
78	Se	72	1	0.32	0.32	ppb	90.48	3600	
95	Mo	72	1	0.22	0.22	ppb	7.05	3600	
107	Ag	115	1	0.01	0.01	ppb	19.52	3600	
111	Cd	115	1	0.06	0.06	ppb	0.51	3600	
118	Sn	115	1	0.05	0.05	ppb	6.35	3600	
121	Sb	115	1	0.02	0.02	ppb	13.75	3600	
137	Ba	115	1	2.02	2.02	ppb	0.55	3600	
205	Tl	165	1	0.08	0.08	ppb	1.38	3600	
208	Pb	165	1	1.93	1.93	ppb	1.32	3600	
232	Th	165	1	1.03	1.03	ppb	2.43	1000	
238	U	165	1	0.29	0.29	ppb	3.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497471	0.61	534602	93.1	30 - 120	
45	Sc	1	2661261	0.72	2551677	104.3	30 - 120	
72	Ge	1	1646855	0.70	1553005	106.0	30 - 120	
115	In	1	4516267	1.00	4260602	106.0	30 - 120	
165	Ho	1	8957874	0.76	8806612	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\116SMPL.D\116SMPL.D#
Date Acquired:	Nov 9 2011 12:28 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-8-a
Misc Info:	
Vial Number:	3111
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.09	0.09	ppb	26.52	3600	
51	V	72	1	4.82	4.82	ppb	1.29	3600	
52	Cr	72	1	2.75	2.75	ppb	2.58	3600	
55	Mn	72	1	25.51	25.51	ppb	0.29	18000	
59	Co	72	1	0.61	0.61	ppb	0.74	3600	
60	Ni	72	1	1.49	1.49	ppb	1.36	3600	
63	Cu	72	1	0.81	0.81	ppb	1.63	3600	
66	Zn	72	1	4.48	4.48	ppb	1.93	3600	
75	As	72	1	1.58	1.58	ppb	1.71	3600	
78	Se	72	1	0.59	0.59	ppb	26.38	3600	
95	Mo	72	1	0.19	0.19	ppb	1.45	3600	
107	Ag	115	1	0.01	0.01	ppb	15.38	3600	
111	Cd	115	1	0.05	0.05	ppb	17.18	3600	
118	Sn	115	1	0.09	0.09	ppb	13.53	3600	
121	Sb	115	1	0.02	0.02	ppb	5.08	3600	
137	Ba	115	1	2.52	2.52	ppb	2.33	3600	
205	Tl	165	1	0.06	0.06	ppb	2.45	3600	
208	Pb	165	1	2.00	2.00	ppb	0.45	3600	
232	Th	165	1	1.16	1.16	ppb	0.80	1000	
238	U	165	1	0.35	0.35	ppb	1.52	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497015	2.08	534602	93.0	30 - 120	
45	Sc	1	2636232	0.36	2551677	103.3	30 - 120	
72	Ge	1	1662600	0.54	1553005	107.1	30 - 120	
115	In	1	4522248	0.79	4260602	106.1	30 - 120	
165	Ho	1	8904540	0.07	8806612	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\117SMPL.D\117SMPL.D#
Date Acquired:	Nov 9 2011 12:31 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-9-c
Misc Info:	
Vial Number:	3112
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.09	0.09	ppb	58.45	3600	
51	V	72	1	4.89	4.89	ppb	1.76	3600	
52	Cr	72	1	2.76	2.76	ppb	2.10	3600	
55	Mn	72	1	16.98	16.98	ppb	0.86	18000	
59	Co	72	1	0.46	0.46	ppb	1.68	3600	
60	Ni	72	1	1.17	1.17	ppb	5.29	3600	
63	Cu	72	1	0.67	0.67	ppb	4.89	3600	
66	Zn	72	1	3.52	3.52	ppb	0.46	3600	
75	As	72	1	1.61	1.61	ppb	3.93	3600	
78	Se	72	1	0.41	0.41	ppb	24.62	3600	
95	Mo	72	1	0.15	0.15	ppb	16.83	3600	
107	Ag	115	1	0.01	0.01	ppb	34.02	3600	
111	Cd	115	1	0.03	0.03	ppb	15.48	3600	
118	Sn	115	1	0.05	0.05	ppb	11.43	3600	
121	Sb	115	1	0.02	0.02	ppb	6.93	3600	
137	Ba	115	1	2.18	2.18	ppb	2.72	3600	
205	Tl	165	1	0.04	0.04	ppb	4.79	3600	
208	Pb	165	1	2.05	2.05	ppb	0.88	3600	
232	Th	165	1	1.48	1.48	ppb	1.49	1000	
238	U	165	1	0.39	0.39	ppb	1.54	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	495725	0.97	534602	92.7	30 - 120	
45	Sc	1	2618512	1.44	2551677	102.6	30 - 120	
72	Ge	1	1640701	0.62	1553005	105.6	30 - 120	
115	In	1	4505438	1.12	4260602	105.7	30 - 120	
165	Ho	1	8956596	0.75	8806612	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\118SMPL.D\118SMPL.D#
Date Acquired:	Nov 9 2011 12:34 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-10-c
Misc Info:	
Vial Number:	3201
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.11	0.11	ppb	23.29	3600	
51	V	72	1	4.29	4.29	ppb	1.67	3600	
52	Cr	72	1	2.35	2.35	ppb	3.39	3600	
55	Mn	72	1	19.48	19.48	ppb	0.76	18000	
59	Co	72	1	0.50	0.50	ppb	3.34	3600	
60	Ni	72	1	1.26	1.26	ppb	1.48	3600	
63	Cu	72	1	0.76	0.76	ppb	3.72	3600	
66	Zn	72	1	4.26	4.26	ppb	1.63	3600	
75	As	72	1	1.52	1.52	ppb	0.31	3600	
78	Se	72	1	0.55	0.55	ppb	45.94	3600	
95	Mo	72	1	0.15	0.15	ppb	1.91	3600	
107	Ag	115	1	0.01	0.01	ppb	23.84	3600	
111	Cd	115	1	0.04	0.04	ppb	18.09	3600	
118	Sn	115	1	0.04	0.04	ppb	7.67	3600	
121	Sb	115	1	0.02	0.02	ppb	10.12	3600	
137	Ba	115	1	2.05	2.05	ppb	1.52	3600	
205	Tl	165	1	0.05	0.05	ppb	5.78	3600	
208	Pb	165	1	1.51	1.51	ppb	1.06	3600	
232	Th	165	1	1.00	1.00	ppb	1.29	1000	
238	U	165	1	0.33	0.33	ppb	0.66	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	494841	0.74	534602	92.6	30 - 120	
45	Sc	1	2631508	0.66	2551677	103.1	30 - 120	
72	Ge	1	1643279	1.42	1553005	105.8	30 - 120	
115	In	1	4502726	0.79	4260602	105.7	30 - 120	
165	Ho	1	8881979	1.32	8806612	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\119SMPL.D\119SMPL.D#
Date Acquired:	Nov 9 2011 12:37 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-11-c
Misc Info:	
Vial Number:	3202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.10	0.10	ppb	13.07	3600	
51	V	72	1	5.92	5.92	ppb	0.64	3600	
52	Cr	72	1	3.28	3.28	ppb	1.61	3600	
55	Mn	72	1	17.06	17.06	ppb	1.47	18000	
59	Co	72	1	0.48	0.48	ppb	2.38	3600	
60	Ni	72	1	1.53	1.53	ppb	1.27	3600	
63	Cu	72	1	0.82	0.82	ppb	3.59	3600	
66	Zn	72	1	4.72	4.72	ppb	1.13	3600	
75	As	72	1	2.04	2.04	ppb	3.63	3600	
78	Se	72	1	0.53	0.53	ppb	60.16	3600	
95	Mo	72	1	0.17	0.17	ppb	5.92	3600	
107	Ag	115	1	0.01	0.01	ppb	8.78	3600	
111	Cd	115	1	0.03	0.03	ppb	15.76	3600	
118	Sn	115	1	0.05	0.05	ppb	9.15	3600	
121	Sb	115	1	0.03	0.03	ppb	12.84	3600	
137	Ba	115	1	2.28	2.28	ppb	3.37	3600	
205	Tl	165	1	0.05	0.05	ppb	3.53	3600	
208	Pb	165	1	2.62	2.62	ppb	2.69	3600	
232	Th	165	1	1.95	1.95	ppb	0.72	1000	
238	U	165	1	0.47	0.47	ppb	0.79	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489702	0.13	534602	91.6	30 - 120	
45	Sc	1	2589482	0.91	2551677	101.5	30 - 120	
72	Ge	1	1653343	0.24	1553005	106.5	30 - 120	
115	In	1	4500992	1.68	4260602	105.6	30 - 120	
165	Ho	1	8866161	1.96	8806612	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\120SMPL.D\120SMPL.D#
Date Acquired: Nov 9 2011 12:40 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-12-e
Misc Info:
Vial Number: 3203
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.08	0.08	ppb	48.87	3600	
51	V	72	1	7.74	7.74	ppb	0.63	3600	
52	Cr	72	1	3.77	3.77	ppb	0.35	3600	
55	Mn	72	1	16.49	16.49	ppb	1.75	18000	
59	Co	72	1	1.00	1.00	ppb	2.45	3600	
60	Ni	72	1	1.96	1.96	ppb	4.09	3600	
63	Cu	72	1	0.87	0.87	ppb	1.46	3600	
66	Zn	72	1	4.74	4.74	ppb	0.96	3600	
75	As	72	1	2.42	2.42	ppb	3.73	3600	
78	Se	72	1	0.28	0.28	ppb	63.13	3600	
95	Mo	72	1	0.23	0.23	ppb	5.00	3600	
107	Ag	115	1	0.01	0.01	ppb	21.72	3600	
111	Cd	115	1	0.03	0.03	ppb	13.52	3600	
118	Sn	115	1	0.05	0.05	ppb	24.93	3600	
121	Sb	115	1	0.02	0.02	ppb	12.95	3600	
137	Ba	115	1	5.18	5.18	ppb	2.45	3600	
205	Tl	165	1	0.05	0.05	ppb	2.51	3600	
208	Pb	165	1	2.25	2.25	ppb	1.67	3600	
232	Th	165	1	1.60	1.60	ppb	2.29	1000	
238	U	165	1	0.35	0.35	ppb	1.53	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492297	2.15	534602	92.1	30 - 120	
45	Sc	1	2636811	0.87	2551677	103.3	30 - 120	
72	Ge	1	1633150	0.81	1553005	105.2	30 - 120	
115	In	1	4518473	1.89	4260602	106.1	30 - 120	
165	Ho	1	8853913	0.78	8806612	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\121SMPL.D\121SMPL.D#
Date Acquired:	Nov 9 2011 12:42 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-13-a
Misc Info:	
Vial Number:	3204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.10	0.10	ppb	22.88	3600	
51	V	72	1	4.99	4.99	ppb	2.02	3600	
52	Cr	72	1	2.09	2.09	ppb	1.37	3600	
55	Mn	72	1	21.48	21.48	ppb	2.95	18000	
59	Co	72	1	0.38	0.38	ppb	2.81	3600	
60	Ni	72	1	0.97	0.97	ppb	6.19	3600	
63	Cu	72	1	0.60	0.60	ppb	2.10	3600	
66	Zn	72	1	4.34	4.34	ppb	1.16	3600	
75	As	72	1	1.90	1.90	ppb	3.68	3600	
78	Se	72	1	0.29	0.29	ppb	88.72	3600	
95	Mo	72	1	0.20	0.20	ppb	6.72	3600	
107	Ag	115	1	0.01	0.01	ppb	23.18	3600	
111	Cd	115	1	0.03	0.03	ppb	37.12	3600	
118	Sn	115	1	0.07	0.07	ppb	30.46	3600	
121	Sb	115	1	0.02	0.02	ppb	19.22	3600	
137	Ba	115	1	2.01	2.01	ppb	3.52	3600	
205	Tl	165	1	0.05	0.05	ppb	2.22	3600	
208	Pb	165	1	1.42	1.42	ppb	1.09	3600	
232	Th	165	1	1.43	1.43	ppb	1.18	1000	
238	U	165	1	0.31	0.31	ppb	1.74	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497376	1.11	534602	93.0	30 - 120	
45	Sc	1	2645868	1.51	2551677	103.7	30 - 120	
72	Ge	1	1633393	0.92	1553005	105.2	30 - 120	
115	In	1	4455632	1.45	4260602	104.6	30 - 120	
165	Ho	1	8836827	1.09	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\122_CCV.D\122_CCV.D#
Date Acquired:	Nov 9 2011 12:45 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.07	ppb	2.43	50	106.1	90 - 110	
51	V	72	1	51.16	ppb	1.69	50	102.3	90 - 110	
52	Cr	72	1	50.38	ppb	1.55	50	100.8	90 - 110	
55	Mn	72	1	51.99	ppb	2.03	50	104.0	90 - 110	
59	Co	72	1	50.99	ppb	0.98	50	102.0	90 - 110	
60	Ni	72	1	50.17	ppb	1.17	50	100.3	90 - 110	
63	Cu	72	1	50.12	ppb	0.68	50	100.2	90 - 110	
66	Zn	72	1	50.13	ppb	1.66	50	100.3	90 - 110	
75	As	72	1	51.48	ppb	0.78	50	103.0	90 - 110	
78	Se	72	1	52.74	ppb	0.23	50	105.5	90 - 110	
95	Mo	72	1	50.69	ppb	2.98	50	101.4	90 - 110	
107	Ag	115	1	50.40	ppb	2.31	50	100.8	90 - 110	
111	Cd	115	1	49.66	ppb	0.51	50	99.3	90 - 110	
118	Sn	115	1	48.66	ppb	0.76	50	97.3	90 - 110	
121	Sb	115	1	49.60	ppb	0.93	50	99.2	90 - 110	
137	Ba	115	1	51.43	ppb	1.31	50	102.9	90 - 110	
205	Tl	165	1	50.52	ppb	0.69	50	101.0	90 - 110	
208	Pb	165	1	48.81	ppb	0.94	50	97.6	90 - 110	
232	Th	165	1	48.90	ppb	1.62	50	97.8	90 - 110	
238	U	165	1	48.45	ppb	1.59	50	96.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496942	1.12	534602	93.0	30 - 120	
45	Sc	1	2628711	1.73	2551677	103.0	30 - 120	
72	Ge	1	1617936	1.33	1553005	104.2	30 - 120	
115	In	1	4493756	1.04	4260602	105.5	30 - 120	
165	Ho	1	8910820	0.73	8806612	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\123_CCB.D\123_CCB.D#
Date Acquired:	Nov 9 2011 12:48 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	2617.10	1.00	
51	V	72	1	0.021	ppb	66.76	1.00	
52	Cr	72	1	-0.001	ppb	1225.40	1.00	
55	Mn	72	1	0.024	ppb	36.24	1.00	
59	Co	72	1	0.006	ppb	22.82	1.00	
60	Ni	72	1	-0.023	ppb	9.03	1.00	
63	Cu	72	1	-0.006	ppb	154.18	1.00	
66	Zn	72	1	-0.022	ppb	15.37	1.00	
75	As	72	1	0.012	ppb	43.85	1.00	
78	Se	72	1	0.254	ppb	113.86	1.00	
95	Mo	72	1	0.011	ppb	66.94	1.00	
107	Ag	115	1	0.009	ppb	13.65	1.00	
111	Cd	115	1	0.003	ppb	114.94	1.00	
118	Sn	115	1	0.003	ppb	316.17	1.00	
121	Sb	115	1	0.016	ppb	11.94	1.00	
137	Ba	115	1	0.016	ppb	22.61	1.00	
205	Tl	165	1	0.009	ppb	12.69	1.00	
208	Pb	165	1	0.006	ppb	17.77	1.00	
232	Th	165	1	0.031	ppb	9.59	1.00	
238	U	165	1	0.008	ppb	11.04	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497453	1.22	534602	93.1	30 - 120	
45	Sc	1	2666478	1.29	2551677	104.5	30 - 120	
72	Ge	1	1662412	0.98	1553005	107.0	30 - 120	
115	In	1	4480673	0.66	4260602	105.2	30 - 120	
165	Ho	1	8935519	1.38	8806612	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\124WASH.D\124WASH.D#
Date Acquired:	Nov 9 2011 12:51 am
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.026 ppb	4.32	1.30	
51	V	72	1	5.033 ppb	1.85	6.50	
52	Cr	72	1	2.203 ppb	2.12	2.60	
55	Mn	72	1	1.248 ppb	2.58	1.30	
59	Co	72	1	1.093 ppb	1.48	1.30	
60	Ni	72	1	2.289 ppb	0.57	2.60	
63	Cu	72	1	2.164 ppb	3.32	2.60	
66	Zn	72	1	10.400 ppb	1.53	13.00	
75	As	72	1	5.401 ppb	1.23	6.50	
78	Se	72	1	6.064 ppb	14.34	6.50	
95	Mo	72	1	2.164 ppb	3.37	2.60	
107	Ag	115	1	5.016 ppb	1.86	6.50	
111	Cd	115	1	1.068 ppb	2.04	1.30	
118	Sn	115	1	9.967 ppb	1.36	13.00	
121	Sb	115	1	2.123 ppb	1.50	2.60	
137	Ba	115	1	1.174 ppb	1.36	1.30	
205	Tl	165	1	1.119 ppb	0.57	1.30	
208	Pb	165	1	1.083 ppb	1.07	1.30	
232	Th	165	1	2.091 ppb	0.63	2.60	
238	U	165	1	1.065 ppb	0.82	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497392	0.74	534602	93.0	30 - 120	
45	Sc	1	2666275	1.02	2551677	104.5	30 - 120	
72	Ge	1	1649020	1.93	1553005	106.2	30 - 120	
115	In	1	4536945	0.36	4260602	106.5	30 - 120	
165	Ho	1	8868872	0.62	8806612	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\125_BLK.D\125_BLK.D#
Date Acquired: Nov 9 2011 12:54 am
Operator: LRD
Sample Name: mb 280-93867/1-a
Misc Info: BLANK 93867 AFCEE4
Vial Number: 3205
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.004 ppb	333.49	2.00	
51	V	72	1	0.002 ppb	269.70	2.00	
52	Cr	72	1	0.082 ppb	7.83	2.00	
55	Mn	72	1	0.208 ppb	5.74	2.00	
59	Co	72	1	0.002 ppb	27.11	2.00	
60	Ni	72	1	-0.007 ppb	27.79	2.00	
63	Cu	72	1	0.032 ppb	13.22	2.00	
66	Zn	72	1	1.318 ppb	3.40	2.00	
75	As	72	1	0.004 ppb	64.51	2.00	
78	Se	72	1	0.510 ppb	28.59	2.00	
95	Mo	72	1	-0.003 ppb	155.78	2.00	
107	Ag	115	1	0.004 ppb	19.04	2.00	
111	Cd	115	1	0.002 ppb	181.81	2.00	
118	Sn	115	1	0.052 ppb	10.66	2.00	
121	Sb	115	1	0.006 ppb	55.94	2.00	
137	Ba	115	1	0.070 ppb	13.88	2.00	
205	Tl	165	1	0.003 ppb	20.42	2.00	
208	Pb	165	1	0.010 ppb	10.16	2.00	
232	Th	165	1	0.016 ppb	21.93	2.00	
238	U	165	1	0.003 ppb	8.72	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	511070	1.33	534602	95.6	30 - 120	
45	Sc	1	2718736	2.05	2551677	106.5	30 - 120	
72	Ge	1	1687091	2.17	1553005	108.6	30 - 120	
115	In	1	4608443	0.84	4260602	108.2	30 - 120	
165	Ho	1	9025307	1.37	8806612	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\126_LCS.D\126_LCS.D#
Date Acquired:	Nov 9 2011 12:57 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-93867/2-a
Misc Info:	LCS
Vial Number:	3206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	42.87	1.57	40	107.2	80 - 120	
51	V	72	1	41.86	1.14	40	104.7	80 - 120	
52	Cr	72	1	41.17	1.00	40	102.9	80 - 120	
55	Mn	72	1	40.86	0.43	40	102.2	80 - 120	
59	Co	72	1	41.63	0.48	40	104.1	80 - 120	
60	Ni	72	1	40.69	0.61	40	101.7	80 - 120	
63	Cu	72	1	40.00	0.80	40	100.0	80 - 120	
66	Zn	72	1	39.95	0.17	40	99.9	80 - 120	
75	As	72	1	40.51	0.50	40	101.3	80 - 120	
78	Se	72	1	41.11	0.98	40	102.8	80 - 120	
95	Mo	72	1	41.94	1.51	40	104.9	80 - 120	
107	Ag	115	1	41.62	3.31	40	104.1	80 - 120	
111	Cd	115	1	40.29	2.62	40	100.7	80 - 120	
118	Sn	115	1	40.25	2.78	40	100.6	80 - 120	
121	Sb	115	1	39.90	1.71	40	99.8	80 - 120	
137	Ba	115	1	42.81	1.48	40	107.0	80 - 120	
205	Tl	165	1	42.30	1.75	40	105.8	80 - 120	
208	Pb	165	1	40.99	1.35	40	102.5	80 - 120	
232	Th	165	1	40.81	0.65	40	102.0	80 - 120	
238	U	165	1	40.94	0.85	40	102.4	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	513669	1.13	534602	96.1	30 - 120	
45	Sc	1	2711954	1.60	2551677	106.3	30 - 120	
72	Ge	1	1689209	0.84	1553005	108.8	30 - 120	
115	In	1	4608163	2.26	4260602	108.2	30 - 120	
165	Ho	1	9036402	1.15	8806612	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Labratory Control Spike Duplicate Sample (LCSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\127LCSD.D\127LCSD.D#
Date Acquired:	Nov 9 2011 01:00 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcsd 280-93867/3-a
Misc Info:	LCSD
Vial Number:	3207
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\126_LCS.D\126_LCS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9	Be	6	1	43.18	ppb	3.80	42.87	0.72	2000	
51	V	72	1	41.28	ppb	0.51	41.86	1.40	2000	
52	Cr	72	1	41.05	ppb	0.61	41.17	0.29	2000	
55	Mn	72	1	41.49	ppb	2.08	40.86	1.53	2000	
59	Co	72	1	41.60	ppb	1.00	41.63	0.07	2000	
60	Ni	72	1	41.14	ppb	1.47	40.69	1.10	2000	
63	Cu	72	1	40.29	ppb	1.63	40.00	0.72	2000	
66	Zn	72	1	39.79	ppb	0.74	39.95	0.40	2000	
75	As	72	1	40.88	ppb	0.44	40.51	0.91	2000	
78	Se	72	1	42.14	ppb	1.74	41.11	2.47	2000	
95	Mo	72	1	41.86	ppb	1.04	41.94	0.19	2000	
107	Ag	115	1	42.24	ppb	1.50	41.62	1.48	2000	
111	Cd	115	1	40.24	ppb	0.57	40.29	0.12	2000	
118	Sn	115	1	40.21	ppb	0.90	40.25	0.10	2000	
121	Sb	115	1	40.05	ppb	0.31	39.90	0.38	2000	
137	Ba	115	1	42.35	ppb	0.41	42.81	1.08	2000	
205	Tl	165	1	42.67	ppb	0.29	42.30	0.87	2000	
208	Pb	165	1	41.06	ppb	0.42	40.99	0.17	2000	
232	Th	165	1	41.79	ppb	1.79	40.81	2.37	2000	
238	U	165	1	40.50	ppb	0.90	40.94	1.08	2000	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	506763	0.66	534602	94.8	30 - 120	
45	Sc	1	2694516	1.58	2551677	105.6	30 - 120	
72	Ge	1	1672175	1.37	1553005	107.7	30 - 120	
115	In	1	4585091	0.61	4260602	107.6	30 - 120	
165	Ho	1	9034486	0.46	8806612	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\128AREF.D\128AREF.D#
Date Acquired:	Nov 9 2011 01:03 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21945-a-20-c 20X
Misc Info:	
Vial Number:	3208
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	AllRef
Dilution Factor:	20.00
Autodil Factor:	Undiluted
Final Dil Factor:	20.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	128.64	6.43	ppb	4.20	3600	
51	V	72	1	1,503.60	75.18	ppb	1.35	3600	
52	Cr	72	1	916.40	45.82	ppb	1.38	3600	
55	Mn	72	1	717.80	35.89	ppb	1.06	18000	
59	Co	72	1	677.00	33.85	ppb	1.55	3600	
60	Ni	72	1	633.40	31.67	ppb	0.73	3600	
63	Cu	72	1	817.80	40.89	ppb	0.58	3600	
66	Zn	72	1	1,477.40	73.87	ppb	0.74	3600	
75	As	72	1	891.40	44.57	ppb	0.72	3600	
78	Se	72	1	576.20	28.81	ppb	1.70	3600	
95	Mo	72	1	355.40	17.77	ppb	0.62	3600	
107	Ag	115	1	196.64	9.83	ppb	0.17	3600	
111	Cd	115	1	88.76	4.44	ppb	1.61	3600	
118	Sn	115	1	0.53	0.03	ppb	35.52	3600	
121	Sb	115	1	956.60	47.83	ppb	0.75	3600	
137	Ba	115	1	1,155.80	57.79	ppb	0.48	3600	
205	Tl	165	1	812.60	40.63	ppb	0.97	3600	
208	Pb	165	1	346.40	17.32	ppb	1.24	3600	
232	Th	165	1	0.79	0.04	ppb	3.97	1000	
238	U	165	1	0.16	0.01	ppb	12.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	503333	1.02	534602	94.2	30 - 120	
45	Sc	1	2618749	1.24	2551677	102.6	30 - 120	
72	Ge	1	1656631	0.21	1553005	106.7	30 - 120	
115	In	1	4491477	0.43	4260602	105.4	30 - 120	
165	Ho	1	8970130	1.45	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\129SDIL.D\129SDIL.D#
Date Acquired: Nov 9 2011 01:06 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21945-a-20-c SD@100
Misc Info: SERIAL DILUTION
Vial Number: 3209
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SDIL
Dilution Factor: 20.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\128AREF.D\128AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	1.30	ppb	10.19	1.29	100.9	90 - 110	
51	V	72	1	14.63	ppb	1.47	15.04	97.3	90 - 110	
52	Cr	72	1	8.76	ppb	1.15	9.16	95.6	90 - 110	
55	Mn	72	1	7.17	ppb	1.91	7.18	99.8	90 - 110	
59	Co	72	1	6.59	ppb	1.65	6.77	97.4	90 - 110	
60	Ni	72	1	6.34	ppb	1.91	6.33	100.1	90 - 110	
63	Cu	72	1	8.13	ppb	0.51	8.18	99.5	90 - 110	
66	Zn	72	1	14.74	ppb	0.64	14.77	99.8	90 - 110	
75	As	72	1	8.93	ppb	1.50	8.91	100.2	90 - 110	
78	Se	72	1	5.93	ppb	7.33	5.76	103.0	90 - 110	
95	Mo	72	1	3.51	ppb	2.50	3.55	98.8	90 - 110	
107	Ag	115	1	1.91	ppb	2.96	1.97	96.9	90 - 110	
111	Cd	115	1	0.88	ppb	4.45	0.89	99.6	90 - 110	
118	Sn	115	1	0.05	ppb	17.71	0.01	877.3	90 - 110	
121	Sb	115	1	9.47	ppb	1.30	9.57	99.0	90 - 110	
137	Ba	115	1	11.36	ppb	2.75	11.56	98.3	90 - 110	
205	Tl	165	1	8.03	ppb	0.49	8.13	98.8	90 - 110	
208	Pb	165	1	3.47	ppb	0.84	3.46	100.2	90 - 110	
232	Th	165	1	0.01	ppb	11.81	0.01	184.4	90 - 110	
238	U	165	1	0.00	ppb	9.31	0.00	184.3	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	499335	1.14	534602	93.4	30 - 120	
45	Sc	1	2645613	2.17	2551677	103.7	30 - 120	
72	Ge	1	1628922	0.76	1553005	104.9	30 - 120	
115	In	1	4508159	1.43	4260602	105.8	30 - 120	
165	Ho	1	8849027	0.53	8806612	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\130PDS.D\130PDS.D#
Date Acquired: Nov 9 2011 01:09 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21945-a-20-c PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 3210
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: PDS
Prep Dil. Factor: 20.00
Autodil Factor: Undiluted
Final Dil Factor: 20.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	218.90	6.43	ppb	0.76	200	106.0	75 - 125	
51 V	72	1	264.30	75.18	ppb	0.20	200	96.0	75 - 125	
52 Cr	72	1	234.20	45.82	ppb	1.28	200	95.3	75 - 125	
55 Mn	72	1	232.70	35.89	ppb	0.98	200	98.6	75 - 125	
59 Co	72	1	224.20	33.85	ppb	1.19	200	95.9	75 - 125	
60 Ni	72	1	235.60	31.67	ppb	1.03	200	101.7	75 - 125	
63 Cu	72	1	228.50	40.89	ppb	1.54	200	94.9	75 - 125	
66 Zn	72	1	269.20	73.87	ppb	1.87	200	98.3	75 - 125	
75 As	72	1	246.60	44.57	ppb	1.46	200	100.8	75 - 125	
78 Se	72	1	231.20	28.81	ppb	1.83	200	101.0	75 - 125	
95 Mo	72	1	219.80	17.77	ppb	0.71	200	100.9	75 - 125	
107 Ag	115	1	60.11	9.83	ppb	3.20	50	100.5	75 - 125	
111 Cd	115	1	204.40	4.44	ppb	1.96	200	100.0	75 - 125	
118 Sn	115	1	198.60	0.03	ppb	2.45	200	99.3	75 - 125	
121 Sb	115	1	246.60	47.83	ppb	1.90	200	99.5	75 - 125	
137 Ba	115	1	265.20	57.79	ppb	2.42	200	102.9	75 - 125	
205 Tl	165	1	240.80	40.63	ppb	1.00	200	100.1	75 - 125	
208 Pb	165	1	215.30	17.32	ppb	0.89	200	99.1	75 - 125	
232 Th	165	1	0.06	0.04	ppb	1.40	200	0.0	75 - 125	
238 U	165	1	194.20	0.01	ppb	2.01	200	97.1	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	498432	1.28	534602	93.2	30 - 120	
45 Sc	1	2624929	1.91	2551677	102.9	30 - 120	
72 Ge	1	1641792	1.38	1553005	105.7	30 - 120	
115 In	1	4505005	1.68	4260602	105.7	30 - 120	
165 Ho	1	8791807	1.57	8806612	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\131_CCV.D\131_CCV.D#
Date Acquired:	Nov 9 2011 01:11 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.64	ppb	1.81	50	107.3	90 - 110	
51	V	72	1	50.93	ppb	0.99	50	101.9	90 - 110	
52	Cr	72	1	49.97	ppb	1.47	50	99.9	90 - 110	
55	Mn	72	1	50.80	ppb	0.92	50	101.6	90 - 110	
59	Co	72	1	50.72	ppb	1.56	50	101.4	90 - 110	
60	Ni	72	1	49.75	ppb	1.02	50	99.5	90 - 110	
63	Cu	72	1	48.85	ppb	2.15	50	97.7	90 - 110	
66	Zn	72	1	49.30	ppb	0.46	50	98.6	90 - 110	
75	As	72	1	50.71	ppb	0.32	50	101.4	90 - 110	
78	Se	72	1	53.18	ppb	3.68	50	106.4	90 - 110	
95	Mo	72	1	50.43	ppb	0.19	50	100.9	90 - 110	
107	Ag	115	1	50.77	ppb	2.86	50	101.5	90 - 110	
111	Cd	115	1	49.46	ppb	0.10	50	98.9	90 - 110	
118	Sn	115	1	48.16	ppb	0.80	50	96.3	90 - 110	
121	Sb	115	1	49.19	ppb	0.46	50	98.4	90 - 110	
137	Ba	115	1	50.81	ppb	0.72	50	101.6	90 - 110	
205	Tl	165	1	50.62	ppb	0.24	50	101.2	90 - 110	
208	Pb	165	1	49.28	ppb	0.87	50	98.6	90 - 110	
232	Th	165	1	49.44	ppb	1.20	50	98.9	90 - 110	
238	U	165	1	49.12	ppb	2.03	50	98.2	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493329	0.45	534602	92.3	30 - 120	
45	Sc	1	2606181	1.80	2551677	102.1	30 - 120	
72	Ge	1	1608239	1.31	1553005	103.6	30 - 120	
115	In	1	4430085	1.19	4260602	104.0	30 - 120	
165	Ho	1	8808278	0.35	8806612	100.0	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\132_CCB.D\132_CCB.D#
Date Acquired: Nov 9 2011 01:14 am
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.009	ppb	144.56	1.00	
51	V	72	1	0.021	ppb	80.37	1.00	
52	Cr	72	1	0.008	ppb	53.76	1.00	
55	Mn	72	1	0.019	ppb	9.29	1.00	
59	Co	72	1	0.010	ppb	28.35	1.00	
60	Ni	72	1	-0.014	ppb	40.72	1.00	
63	Cu	72	1	0.003	ppb	43.22	1.00	
66	Zn	72	1	-0.015	ppb	26.77	1.00	
75	As	72	1	0.019	ppb	72.35	1.00	
78	Se	72	1	0.217	ppb	54.06	1.00	
95	Mo	72	1	0.021	ppb	39.16	1.00	
107	Ag	115	1	0.012	ppb	19.05	1.00	
111	Cd	115	1	0.012	ppb	52.05	1.00	
118	Sn	115	1	0.047	ppb	41.80	1.00	
121	Sb	115	1	0.044	ppb	20.99	1.00	
137	Ba	115	1	0.017	ppb	30.17	1.00	
205	Tl	165	1	0.037	ppb	4.25	1.00	
208	Pb	165	1	0.013	ppb	7.16	1.00	
232	Th	165	1	0.042	ppb	7.53	1.00	
238	U	165	1	0.014	ppb	11.22	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496976	0.77	534602	93.0	30 - 120	
45	Sc	1	2610147	0.50	2551677	102.3	30 - 120	
72	Ge	1	1614244	1.42	1553005	103.9	30 - 120	
115	In	1	4441355	0.66	4260602	104.2	30 - 120	
165	Ho	1	8800113	0.94	8806612	99.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\133WASH.D\133WASH.D#
Date Acquired: Nov 9 2011 01:17 am
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.120 ppb	6.79	1.30	
51	V	72	1	4.912 ppb	1.71	6.50	
52	Cr	72	1	2.149 ppb	1.40	2.60	
55	Mn	72	1	1.224 ppb	3.61	1.30	
59	Co	72	1	1.106 ppb	2.42	1.30	
60	Ni	72	1	2.237 ppb	5.04	2.60	
63	Cu	72	1	2.171 ppb	1.41	2.60	
66	Zn	72	1	10.370 ppb	0.79	13.00	
75	As	72	1	5.270 ppb	0.75	6.50	
78	Se	72	1	5.373 ppb	12.98	6.50	
95	Mo	72	1	2.164 ppb	1.97	2.60	
107	Ag	115	1	5.014 ppb	0.67	6.50	
111	Cd	115	1	1.057 ppb	2.43	1.30	
118	Sn	115	1	9.813 ppb	1.64	13.00	
121	Sb	115	1	2.120 ppb	0.14	2.60	
137	Ba	115	1	1.140 ppb	1.21	1.30	
205	Tl	165	1	1.123 ppb	1.12	1.30	
208	Pb	165	1	1.105 ppb	0.64	1.30	
232	Th	165	1	2.080 ppb	1.87	2.60	
238	U	165	1	1.072 ppb	0.03	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492522	1.60	534602	92.1	30 - 120	
45	Sc	1	2616803	0.24	2551677	102.6	30 - 120	
72	Ge	1	1624289	1.29	1553005	104.6	30 - 120	
115	In	1	4488955	0.46	4260602	105.4	30 - 120	
165	Ho	1	8757178	0.33	8806612	99.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\134_BLK.D\134_BLK.D#
Date Acquired:	Nov 9 2011 01:20 am
Operator:	LRD
Sample Name:	mb 280-94961/1-a
Misc Info:	BLANK 94961 DoD4/ 6020A
Vial Number:	3211
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.017 ppb	41.52	2.00	
51	V	72	1	0.028 ppb	51.33	2.00	
52	Cr	72	1	0.101 ppb	21.06	2.00	
55	Mn	72	1	0.142 ppb	11.16	2.00	
59	Co	72	1	0.007 ppb	48.84	2.00	
60	Ni	72	1	-0.002 ppb	509.03	2.00	
63	Cu	72	1	0.016 ppb	11.27	2.00	
66	Zn	72	1	1.089 ppb	2.93	2.00	
75	As	72	1	0.015 ppb	10.83	2.00	
78	Se	72	1	0.175 ppb	41.24	2.00	
95	Mo	72	1	0.003 ppb	55.50	2.00	
107	Ag	115	1	0.006 ppb	26.81	2.00	
111	Cd	115	1	0.005 ppb	48.11	2.00	
118	Sn	115	1	0.039 ppb	29.17	2.00	
121	Sb	115	1	0.022 ppb	3.36	2.00	
137	Ba	115	1	0.030 ppb	8.91	2.00	
205	Tl	165	1	0.024 ppb	11.91	2.00	
208	Pb	165	1	0.014 ppb	14.92	2.00	
232	Th	165	1	0.024 ppb	9.22	2.00	
238	U	165	1	0.006 ppb	18.39	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	507652	1.33	534602	95.0	30 - 120	
45	Sc	1	2698661	1.34	2551677	105.8	30 - 120	
72	Ge	1	1645671	0.80	1553005	106.0	30 - 120	
115	In	1	4543819	0.80	4260602	106.6	30 - 120	
165	Ho	1	8954294	1.56	8806612	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\135_LCS.D\135_LCS.D#
Date Acquired: Nov 9 2011 01:23 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-94961/2-a
Misc Info: LCS
Vial Number: 3212
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	42.16	2.79	40	105.4	80 - 120	
51 V	72	1	41.68	1.87	40	104.2	80 - 120	
52 Cr	72	1	42.08	0.48	40	105.2	80 - 120	
55 Mn	72	1	41.61	1.41	40	104.0	80 - 120	
59 Co	72	1	41.88	1.33	40	104.7	80 - 120	
60 Ni	72	1	41.07	0.84	40	102.7	80 - 120	
63 Cu	72	1	40.44	1.53	40	101.1	80 - 120	
66 Zn	72	1	39.91	0.92	40	99.8	80 - 120	
75 As	72	1	40.69	0.47	40	101.7	80 - 120	
78 Se	72	1	41.54	3.24	40	103.9	80 - 120	
95 Mo	72	1	42.48	0.44	40	106.2	80 - 120	
107 Ag	115	1	41.21	1.41	40	103.0	80 - 120	
111 Cd	115	1	39.78	0.48	40	99.5	80 - 120	
118 Sn	115	1	39.75	0.92	40	99.4	80 - 120	
121 Sb	115	1	39.63	0.34	40	99.1	80 - 120	
137 Ba	115	1	42.11	0.30	40	105.3	80 - 120	
205 Tl	165	1	42.25	1.05	40	105.6	80 - 120	
208 Pb	165	1	40.89	0.97	40	102.2	80 - 120	
232 Th	165	1	41.89	2.39	40	104.7	80 - 120	
238 U	165	1	41.02	1.08	40	102.6	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	507380	0.87	534602	94.9	30 - 120	
45 Sc	1	2658513	2.88	2551677	104.2	30 - 120	
72 Ge	1	1619721	0.70	1553005	104.3	30 - 120	
115 In	1	4519826	0.20	4260602	106.1	30 - 120	
165 Ho	1	8908609	0.33	8806612	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\136AREF.D\136AREF.D#
Date Acquired: Nov 9 2011 01:26 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22438-c-11-a
Misc Info:
Vial Number: 3301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	43.25	43.25	ppb	1.16	3600	
51	V	72	1	49.12	49.12	ppb	0.78	3600	
52	Cr	72	1	54.57	54.57	ppb	0.34	3600	
55	Mn	72	1	1,078.00	1078.00	ppb	1.96	18000	
59	Co	72	1	50.02	50.02	ppb	1.94	3600	
60	Ni	72	1	54.59	54.59	ppb	2.29	3600	
63	Cu	72	1	43.19	43.19	ppb	1.03	3600	
66	Zn	72	1	129.20	129.20	ppb	1.13	3600	
75	As	72	1	42.55	42.55	ppb	0.80	3600	
78	Se	72	1	41.45	41.45	ppb	1.85	3600	
95	Mo	72	1	42.18	42.18	ppb	1.24	3600	
107	Ag	115	1	39.91	39.91	ppb	0.51	3600	
111	Cd	115	1	43.04	43.04	ppb	0.68	3600	
118	Sn	115	1	24.24	24.24	ppb	0.66	3600	
121	Sb	115	1	36.15	36.15	ppb	0.96	3600	
137	Ba	115	1	65.26	65.26	ppb	0.34	3600	
205	Tl	165	1	40.52	40.52	ppb	0.93	3600	
208	Pb	165	1	51.41	51.41	ppb	0.45	3600	
232	Th	165	1	30.21	30.21	ppb	0.22	1000	
238	U	165	1	40.40	40.40	ppb	0.84	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	491589	0.93	534602	92.0	30 - 120	
45	Sc	1	2608268	0.99	2551677	102.2	30 - 120	
72	Ge	1	1573012	1.10	1553005	101.3	30 - 120	
115	In	1	4318371	0.38	4260602	101.4	30 - 120	
165	Ho	1	8834474	1.16	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\137SDIL.D\137SDIL.D#
Date Acquired:	Nov 9 2011 01:29 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	3302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\136AREF.D\136AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	9.19	ppb	0.38	8.65	106.3	90 - 110	
51	V	72	1	9.32	ppb	0.71	9.82	94.8	90 - 110	
52	Cr	72	1	10.38	ppb	1.44	10.91	95.1	90 - 110	
55	Mn	72	1	217.90	ppb	1.99	215.60	101.1	90 - 110	
59	Co	72	1	9.55	ppb	1.69	10.00	95.4	90 - 110	
60	Ni	72	1	11.06	ppb	2.21	10.92	101.3	90 - 110	
63	Cu	72	1	8.80	ppb	0.89	8.64	101.9	90 - 110	
66	Zn	72	1	26.53	ppb	0.86	25.84	102.7	90 - 110	
75	As	72	1	8.51	ppb	0.97	8.51	100.0	90 - 110	
78	Se	72	1	8.57	ppb	5.15	8.29	103.4	90 - 110	
95	Mo	72	1	8.30	ppb	0.91	8.44	98.3	90 - 110	
107	Ag	115	1	8.02	ppb	1.34	7.98	100.5	90 - 110	
111	Cd	115	1	8.82	ppb	3.17	8.61	102.5	90 - 110	
118	Sn	115	1	4.90	ppb	3.04	4.85	101.1	90 - 110	
121	Sb	115	1	7.38	ppb	1.54	7.23	102.1	90 - 110	
137	Ba	115	1	13.07	ppb	1.50	13.05	100.1	90 - 110	
205	Tl	165	1	8.09	ppb	0.50	8.10	99.9	90 - 110	
208	Pb	165	1	10.34	ppb	0.25	10.28	100.6	90 - 110	
232	Th	165	1	5.93	ppb	0.58	6.04	98.1	90 - 110	
238	U	165	1	7.97	ppb	0.40	8.08	98.7	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	500359	0.08	534602	93.6	30 - 120	
45	Sc	1	2635965	0.83	2551677	103.3	30 - 120	
72	Ge	1	1633694	1.51	1553005	105.2	30 - 120	
115	In	1	4414734	1.25	4260602	103.6	30 - 120	
165	Ho	1	8943250	0.71	8806612	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\138PDS.D\138PDS.D#
Date Acquired:	Nov 9 2011 01:32 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	252.00	43.25	ppb	2.07	200	103.6	75 - 125	
51 V	72	1	238.80	49.12	ppb	3.22	200	95.9	75 - 125	
52 Cr	72	1	241.90	54.57	ppb	2.65	200	95.0	75 - 125	
55 Mn	72	1	1239.00	1078.00	ppb	0.98	200	96.9	75 - 125	
59 Co	72	1	238.70	50.02	ppb	1.53	200	95.5	75 - 125	
60 Ni	72	1	251.50	54.59	ppb	0.84	200	98.8	75 - 125	
63 Cu	72	1	231.10	43.19	ppb	1.86	200	95.0	75 - 125	
66 Zn	72	1	322.50	129.20	ppb	0.81	200	98.0	75 - 125	
75 As	72	1	242.00	42.55	ppb	2.54	200	99.8	75 - 125	
78 Se	72	1	242.60	41.45	ppb	2.90	200	100.5	75 - 125	
95 Mo	72	1	245.90	42.18	ppb	2.41	200	101.5	75 - 125	
107 Ag	115	1	87.05	39.91	ppb	2.03	50	96.8	75 - 125	
111 Cd	115	1	249.00	43.04	ppb	2.49	200	102.5	75 - 125	
118 Sn	115	1	223.90	24.24	ppb	1.53	200	99.8	75 - 125	
121 Sb	115	1	240.30	36.15	ppb	0.32	200	101.8	75 - 125	
137 Ba	115	1	282.20	65.26	ppb	0.97	200	106.4	75 - 125	
205 Tl	165	1	234.60	40.52	ppb	1.02	200	97.5	75 - 125	
208 Pb	165	1	239.50	51.41	ppb	0.70	200	95.3	75 - 125	
232 Th	165	1	30.16	30.21	ppb	1.05	200	13.1	75 - 125	
238 U	165	1	232.30	40.40	ppb	1.03	200	96.6	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	493965	0.57	534602	92.4	30 - 120	
45 Sc	1	2593384	2.24	2551677	101.6	30 - 120	
72 Ge	1	1590780	2.06	1553005	102.4	30 - 120	
115 In	1	4322871	0.96	4260602	101.5	30 - 120	
165 Ho	1	8806420	1.30	8806612	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\139_MS.D\139_MS.D#		
Date Acquired:	Nov 9 2011 01:34 am	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	LRD	ISTD:	Pass
Sample Name:	280-22438-c-11-b ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	3304		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 07:04 pm		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	42.42	43.25	ppb	0.93	40	51.0	50 - 150	
51 V	72	1	48.72	49.12	ppb	3.76	40	54.7	50 - 150	
52 Cr	72	1	54.34	54.57	ppb	3.23	40	57.5	50 - 150	
55 Mn	72	1	1073.00	1078.00	ppb	1.84	40	96.0	50 - 150	
59 Co	72	1	48.26	50.02	ppb	1.98	40	53.6	50 - 150	
60 Ni	72	1	53.25	54.59	ppb	1.48	40	56.3	50 - 150	
63 Cu	72	1	42.09	43.19	ppb	1.73	40	50.6	50 - 150	
66 Zn	72	1	127.60	129.20	ppb	1.25	40	75.4	50 - 150	
75 As	72	1	41.67	42.55	ppb	1.09	40	50.5	50 - 150	
78 Se	72	1	41.62	41.45	ppb	1.16	40	51.1	50 - 150	
95 Mo	72	1	41.40	42.18	ppb	1.53	40	50.4	50 - 150	
107 Ag	115	1	39.33	39.91	ppb	2.33	40	49.2	50 - 150	
111 Cd	115	1	42.61	43.04	ppb	1.78	40	51.3	50 - 150	
118 Sn	115	1	24.01	24.24	ppb	0.31	40	37.4	50 - 150	
121 Sb	115	1	35.76	36.15	ppb	0.54	40	47.0	50 - 150	
137 Ba	115	1	64.45	65.26	ppb	0.80	40	61.2	50 - 150	
205 Tl	165	1	40.16	40.52	ppb	0.54	40	49.9	50 - 150	
208 Pb	165	1	50.50	51.41	ppb	1.32	40	55.2	50 - 150	
232 Th	165	1	30.22	30.21	ppb	1.41	40	43.0	50 - 150	
238 U	165	1	39.73	40.40	ppb	0.57	40	49.4	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	497949	0.04	534602	93.1	30 - 120	
45 Sc	1	2612399	1.54	2551677	102.4	30 - 120	
72 Ge	1	1593727	1.53	1553005	102.6	30 - 120	
115 In	1	4342411	1.53	4260602	101.9	30 - 120	
165 Ho	1	8834476	0.68	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\140_MSD.D\140_MSD.D#
Date Acquired: Nov 9 2011 01:37 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22438-c-11-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\139_MS.D\139_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	0.21	ppb	39.48	42.42	198.01	20	
51	V	72	1	7.36	ppb	1.88	48.72	147.49	20	
52	Cr	72	1	12.97	ppb	2.02	54.34	122.92	20	
55	Mn	72	1	1047.00	ppb	1.70	1073.00	2.45	20	
59	Co	72	1	8.29	ppb	0.86	48.26	141.34	20	
60	Ni	72	1	14.76	ppb	1.18	53.25	113.19	20	
63	Cu	72	1	5.11	ppb	0.76	42.09	156.70	20	
66	Zn	72	1	92.69	ppb	0.91	127.60	31.69	20	
75	As	72	1	2.28	ppb	0.41	41.67	179.21	20	
78	Se	72	1	0.97	ppb	20.02	41.62	190.87	20	
95	Mo	72	1	1.12	ppb	4.23	41.40	189.45	20	
107	Ag	115	1	0.10	ppb	3.08	39.33	198.94	20	
111	Cd	115	1	3.19	ppb	3.77	42.61	172.16	20	
118	Sn	115	1	0.23	ppb	8.52	24.01	196.13	20	
121	Sb	115	1	0.56	ppb	1.06	35.76	193.79	20	
137	Ba	115	1	22.88	ppb	0.76	64.45	95.20	20	
205	Tl	165	1	0.27	ppb	0.83	40.16	197.37	20	
208	Pb	165	1	12.26	ppb	0.58	50.50	121.86	20	
232	Th	165	1	0.67	ppb	1.31	30.22	191.33	20	
238	U	165	1	0.29	ppb	1.43	39.73	197.15	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	500440	1.07	534602	93.6	30 - 120	
45	Sc	1	2648780	3.12	2551677	103.8	30 - 120	
72	Ge	1	1598410	0.47	1553005	102.9	30 - 120	
115	In	1	4374542	1.09	4260602	102.7	30 - 120	
165	Ho	1	8861025	0.50	8806612	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\141_CCV.D\141_CCV.D#
Date Acquired:	Nov 9 2011 01:40 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.39	ppb	0.97	50	106.8	90 - 110	
51	V	72	1	50.38	ppb	1.58	50	100.8	90 - 110	
52	Cr	72	1	49.63	ppb	0.64	50	99.3	90 - 110	
55	Mn	72	1	49.98	ppb	0.86	50	100.0	90 - 110	
59	Co	72	1	49.81	ppb	0.52	50	99.6	90 - 110	
60	Ni	72	1	49.19	ppb	1.01	50	98.4	90 - 110	
63	Cu	72	1	49.40	ppb	0.74	50	98.8	90 - 110	
66	Zn	72	1	48.92	ppb	1.34	50	97.8	90 - 110	
75	As	72	1	50.38	ppb	1.71	50	100.8	90 - 110	
78	Se	72	1	53.86	ppb	2.14	50	107.7	90 - 110	
95	Mo	72	1	49.81	ppb	0.91	50	99.6	90 - 110	
107	Ag	115	1	50.46	ppb	0.82	50	100.9	90 - 110	
111	Cd	115	1	49.17	ppb	0.82	50	98.3	90 - 110	
118	Sn	115	1	47.97	ppb	0.42	50	95.9	90 - 110	
121	Sb	115	1	48.98	ppb	0.93	50	98.0	90 - 110	
137	Ba	115	1	50.92	ppb	1.58	50	101.8	90 - 110	
205	Tl	165	1	50.85	ppb	0.33	50	101.7	90 - 110	
208	Pb	165	1	49.05	ppb	0.58	50	98.1	90 - 110	
232	Th	165	1	49.67	ppb	2.12	50	99.3	90 - 110	
238	U	165	1	48.70	ppb	1.30	50	97.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	503508	0.91	534602	94.2	30 - 120	
45	Sc	1	2623006	0.83	2551677	102.8	30 - 120	
72	Ge	1	1649350	0.65	1553005	106.2	30 - 120	
115	In	1	4521373	1.45	4260602	106.1	30 - 120	
165	Ho	1	8941329	0.76	8806612	101.5	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\142_CCB.D\142_CCB.D#
Date Acquired: Nov 9 2011 01:43 am
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.009	ppb	144.82	1.00	
51	V	72	1	0.000	ppb	4511.70	1.00	
52	Cr	72	1	-0.001	ppb	1053.50	1.00	
55	Mn	72	1	0.083	ppb	13.74	1.00	
59	Co	72	1	0.011	ppb	1.66	1.00	
60	Ni	72	1	-0.016	ppb	45.37	1.00	
63	Cu	72	1	-0.001	ppb	684.36	1.00	
66	Zn	72	1	-0.009	ppb	34.65	1.00	
75	As	72	1	0.014	ppb	55.94	1.00	
78	Se	72	1	0.189	ppb	157.07	1.00	
95	Mo	72	1	0.018	ppb	22.34	1.00	
107	Ag	115	1	0.013	ppb	4.55	1.00	
111	Cd	115	1	0.014	ppb	29.92	1.00	
118	Sn	115	1	0.023	ppb	107.64	1.00	
121	Sb	115	1	0.026	ppb	4.92	1.00	
137	Ba	115	1	0.021	ppb	21.40	1.00	
205	Tl	165	1	0.025	ppb	8.00	1.00	
208	Pb	165	1	0.013	ppb	10.00	1.00	
232	Th	165	1	0.045	ppb	5.05	1.00	
238	U	165	1	0.014	ppb	3.31	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501239	0.38	534602	93.8	30 - 120	
45	Sc	1	2674243	2.02	2551677	104.8	30 - 120	
72	Ge	1	1655365	1.39	1553005	106.6	30 - 120	
115	In	1	4521825	1.45	4260602	106.1	30 - 120	
165	Ho	1	8832897	0.86	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\143WASH.D\143WASH.D#
Date Acquired: Nov 9 2011 01:46 am
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.269 ppb	5.91	1.30	
51 V	72	1	4.878 ppb	1.59	6.50	
52 Cr	72	1	2.119 ppb	0.99	2.60	
55 Mn	72	1	1.269 ppb	2.81	1.30	
59 Co	72	1	1.073 ppb	2.29	1.30	
60 Ni	72	1	2.274 ppb	2.82	2.60	
63 Cu	72	1	2.179 ppb	2.16	2.60	
66 Zn	72	1	10.430 ppb	1.75	13.00	
75 As	72	1	5.263 ppb	1.92	6.50	
78 Se	72	1	5.664 ppb	0.80	6.50	
95 Mo	72	1	2.165 ppb	3.29	2.60	
107 Ag	115	1	5.029 ppb	1.99	6.50	
111 Cd	115	1	1.115 ppb	0.60	1.30	
118 Sn	115	1	9.971 ppb	0.98	13.00	
121 Sb	115	1	2.124 ppb	0.64	2.60	
137 Ba	115	1	1.154 ppb	1.28	1.30	
205 Tl	165	1	1.099 ppb	0.95	1.30	
208 Pb	165	1	1.085 ppb	1.75	1.30	
232 Th	165	1	2.073 ppb	0.73	2.60	
238 U	165	1	1.062 ppb	1.42	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	507663	1.17	534602	95.0	30 - 120	
45 Sc	1	2663595	1.50	2551677	104.4	30 - 120	
72 Ge	1	1663865	0.79	1553005	107.1	30 - 120	
115 In	1	4502189	0.94	4260602	105.7	30 - 120	
165 Ho	1	8974712	1.73	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\144WASH.D\144WASH.D#
Date Acquired: Nov 9 2011 01:49 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.011	ppb	135.37	1.30	
51	V	72	1	0.176	ppb	26.97	6.50	
52	Cr	72	1	1.025	ppb	2.70	2.60	
55	Mn	72	1	0.592	ppb	2.86	1.30	
59	Co	72	1	0.065	ppb	5.59	1.30	
60	Ni	72	1	5.268	ppb	1.43	2.60	
63	Cu	72	1	0.353	ppb	1.71	2.60	
66	Zn	72	1	3.455	ppb	0.51	13.00	
75	As	72	1	0.513	ppb	2.52	6.50	
78	Se	72	1	0.387	ppb	67.55	6.50	
95	Mo	72	1	1999.000	ppb	1.28	2.60	
107	Ag	115	1	0.069	ppb	10.52	6.50	
111	Cd	115	1	0.563	ppb	8.12	1.30	
118	Sn	115	1	0.184	ppb	5.06	13.00	
121	Sb	115	1	0.287	ppb	1.76	2.60	
137	Ba	115	1	0.250	ppb	1.72	1.30	
205	Tl	165	1	0.069	ppb	13.19	1.30	
208	Pb	165	1	0.166	ppb	4.95	1.30	
232	Th	165	1	0.043	ppb	10.99	2.60	
238	U	165	1	0.016	ppb	5.58	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	426228	0.80	534602	79.7	30 - 120	
45	Sc	1	2234973	1.08	2551677	87.6	30 - 120	
72	Ge	1	1372745	1.02	1553005	88.4	30 - 120	
115	In	1	3735449	0.97	4260602	87.7	30 - 120	
165	Ho	1	7710401	1.90	8806612	87.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\145WASH.D\145WASH.D#
Date Acquired: Nov 9 2011 01:52 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.014	ppb	54.51	1.30	
51	V	72	1	0.016	ppb	101.97	6.50	
52	Cr	72	1	-0.019	ppb	56.42	2.60	
55	Mn	72	1	0.050	ppb	19.26	1.30	
59	Co	72	1	0.005	ppb	40.56	1.30	
60	Ni	72	1	-0.027	ppb	53.95	2.60	
63	Cu	72	1	0.004	ppb	92.05	2.60	
66	Zn	72	1	-0.036	ppb	31.46	13.00	
75	As	72	1	0.015	ppb	49.88	6.50	
78	Se	72	1	0.285	ppb	68.19	6.50	
95	Mo	72	1	0.355	ppb	3.94	2.60	
107	Ag	115	1	0.003	ppb	48.33	6.50	
111	Cd	115	1	0.008	ppb	92.87	1.30	
118	Sn	115	1	-0.016	ppb	56.21	13.00	
121	Sb	115	1	0.008	ppb	16.41	2.60	
137	Ba	115	1	0.010	ppb	40.62	1.30	
205	Tl	165	1	0.013	ppb	3.26	1.30	
208	Pb	165	1	0.005	ppb	9.43	1.30	
232	Th	165	1	0.010	ppb	0.78	2.60	
238	U	165	1	0.003	ppb	31.18	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	478292	0.81	534602	89.5	30 - 120	
45	Sc	1	2543999	2.30	2551677	99.7	30 - 120	
72	Ge	1	1588627	1.51	1553005	102.3	30 - 120	
115	In	1	4408999	0.47	4260602	103.5	30 - 120	
165	Ho	1	8847686	1.55	8806612	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\146WASH.D\146WASH.D#
Date Acquired: Nov 9 2011 01:55 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	1982.30	1.30	
51	V	72	1	0.006	ppb	127.28	6.50	
52	Cr	72	1	-0.015	ppb	54.24	2.60	
55	Mn	72	1	0.041	ppb	9.36	1.30	
59	Co	72	1	0.004	ppb	21.59	1.30	
60	Ni	72	1	-0.034	ppb	19.74	2.60	
63	Cu	72	1	0.000	ppb	1276.10	2.60	
66	Zn	72	1	-0.028	ppb	53.99	13.00	
75	As	72	1	0.008	ppb	54.55	6.50	
78	Se	72	1	0.402	ppb	17.15	6.50	
95	Mo	72	1	0.089	ppb	7.34	2.60	
107	Ag	115	1	0.000	ppb	170.77	6.50	
111	Cd	115	1	0.002	ppb	60.62	1.30	
118	Sn	115	1	-0.020	ppb	6.95	13.00	
121	Sb	115	1	0.007	ppb	18.94	2.60	
137	Ba	115	1	0.005	ppb	100.61	1.30	
205	Tl	165	1	0.008	ppb	8.08	1.30	
208	Pb	165	1	0.004	ppb	19.02	1.30	
232	Th	165	1	0.008	ppb	13.36	2.60	
238	U	165	1	0.002	ppb	5.57	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489410	0.55	534602	91.5	30 - 120	
45	Sc	1	2620270	0.60	2551677	102.7	30 - 120	
72	Ge	1	1644029	0.59	1553005	105.9	30 - 120	
115	In	1	4521563	0.56	4260602	106.1	30 - 120	
165	Ho	1	8848234	0.53	8806612	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\147WASH.D\147WASH.D#
Date Acquired: Nov 9 2011 01:58 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	1791.90	1.30	
51	V	72	1	-0.006	ppb	80.66	6.50	
52	Cr	72	1	-0.024	ppb	59.03	2.60	
55	Mn	72	1	0.032	ppb	2.08	1.30	
59	Co	72	1	0.003	ppb	17.91	1.30	
60	Ni	72	1	-0.031	ppb	9.82	2.60	
63	Cu	72	1	-0.010	ppb	97.99	2.60	
66	Zn	72	1	-0.041	ppb	32.59	13.00	
75	As	72	1	0.005	ppb	201.15	6.50	
78	Se	72	1	0.298	ppb	49.77	6.50	
95	Mo	72	1	0.045	ppb	19.43	2.60	
107	Ag	115	1	0.002	ppb	10.72	6.50	
111	Cd	115	1	0.005	ppb	96.57	1.30	
118	Sn	115	1	-0.025	ppb	29.36	13.00	
121	Sb	115	1	0.006	ppb	38.19	2.60	
137	Ba	115	1	0.006	ppb	32.60	1.30	
205	Tl	165	1	0.005	ppb	20.51	1.30	
208	Pb	165	1	0.003	ppb	42.29	1.30	
232	Th	165	1	0.004	ppb	28.69	2.60	
238	U	165	1	0.003	ppb	17.00	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497000	1.82	534602	93.0	30 - 120	
45	Sc	1	2635651	0.31	2551677	103.3	30 - 120	
72	Ge	1	1663668	2.09	1553005	107.1	30 - 120	
115	In	1	4561498	0.25	4260602	107.1	30 - 120	
165	Ho	1	8866619	0.63	8806612	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\148WASH.D\148WASH.D#
Date Acquired:	Nov 9 2011 02:01 am
Operator:	LRD
Sample Name:	RINSE
Misc Info:	
Vial Number:	3
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.000 ppb	2217.40	1.30	
51	V	72	1	-0.006 ppb	340.26	6.50	
52	Cr	72	1	-0.015 ppb	68.34	2.60	
55	Mn	72	1	0.027 ppb	8.36	1.30	
59	Co	72	1	0.004 ppb	43.89	1.30	
60	Ni	72	1	-0.030 ppb	20.13	2.60	
63	Cu	72	1	-0.004 ppb	180.17	2.60	
66	Zn	72	1	-0.032 ppb	20.10	13.00	
75	As	72	1	0.008 ppb	79.77	6.50	
78	Se	72	1	0.240 ppb	50.19	6.50	
95	Mo	72	1	0.027 ppb	11.20	2.60	
107	Ag	115	1	0.000 ppb	149.42	6.50	
111	Cd	115	1	0.002 ppb	135.03	1.30	
118	Sn	115	1	-0.026 ppb	20.47	13.00	
121	Sb	115	1	0.004 ppb	26.85	2.60	
137	Ba	115	1	0.006 ppb	41.79	1.30	
205	Tl	165	1	0.004 ppb	18.86	1.30	
208	Pb	165	1	0.002 ppb	6.72	1.30	
232	Th	165	1	0.006 ppb	13.23	2.60	
238	U	165	1	0.002 ppb	11.74	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501069	0.84	534602	93.7	30 - 120	
45	Sc	1	2645736	0.91	2551677	103.7	30 - 120	
72	Ge	1	1666646	1.18	1553005	107.3	30 - 120	
115	In	1	4537188	0.60	4260602	106.5	30 - 120	
165	Ho	1	9002165	1.83	8806612	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\149CALB.D\149CALB.D#
Date Acquired:	Nov 9 2011 02:03 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	Cal Blank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
51	V	72	1	392	61.04
52	Cr	72	1	8259	0.97
55	Mn	72	1	1667	8.91
59	Co	72	1	343	33.92
60	Ni	72	1	257	7.61
63	Cu	72	1	987	12.65
66	Zn	72	1	324	5.00
75	As	72	1	126	22.23
78	Se	72	1	370	7.89
95	Mo	72	1	330	24.16
107	Ag	115	1	120	46.05
111	Cd	115	1	77	39.57
118	Sn	115	1	577	21.76
121	Sb	115	1	129	18.58
137	Ba	115	1	124	19.97
205	Tl	165	1	456	6.14
208	Pb	165	1	1053	10.69
232	Th	165	1	657	19.97
238	U	165	1	416	21.22

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	505677	0.19
45	Sc	1	2697067	1.72
72	Ge	1	1666675	0.73
115	In	1	4587598	0.54
165	Ho	1	9026672	1.33

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#
Date Acquired:	Nov 9 2011 02:06 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1118467
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:04 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	13	43.89
51	V	72	1	159	252.72
52	Cr	72	1	7932	2.56
55	Mn	72	1	1537	8.51
59	Co	72	1	230	15.63
60	Ni	72	1	587	4.98
63	Cu	72	1	1030	5.89
66	Zn	72	1	538	4.34
75	As	72	1	119	12.56
78	Se	72	1	373	11.54
95	Mo	72	1	167	42.51
107	Ag	115	1	33	44.86
111	Cd	115	1	53	18.78
118	Sn	115	1	930	16.42
121	Sb	115	1	70	31.55
137	Ba	115	1	94	18.03
205	Tl	165	1	267	12.18
208	Pb	165	1	860	2.25
232	Th	165	1	377	17.26
238	U	165	1	214	29.28

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	511883	0.67
45	Sc	1	2688297	1.44
72	Ge	1	1668870	1.44
115	In	1	4545768	2.38
165	Ho	1	8917520	1.23

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\151ICAL.D\151ICAL.D#
Date Acquired:	Nov 9 2011 02:09 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1118450
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:07 am
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	81715	1.37
51	V	72	1	2308177	2.04
52	Cr	72	1	2480869	2.13
55	Mn	72	1	2132637	1.40
59	Co	72	1	3402394	1.18
60	Ni	72	1	824543	1.23
63	Cu	72	1	2060721	0.53
66	Zn	72	1	369794	0.64
75	As	72	1	262377	0.51
78	Se	72	1	36302	1.59
95	Mo	72	1	979578	1.51
107	Ag	115	1	2953326	2.47
111	Cd	115	1	492222	1.69
118	Sn	115	1	1291721	0.57
121	Sb	115	1	1471060	0.65
137	Ba	115	1	565859	0.29
205	Tl	165	1	5003389	1.32
208	Pb	165	1	6950601	1.50
232	Th	165	1	6746712	2.65
238	U	165	1	7209125	3.42

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	505048	0.78	511883	98.7	30 - 120	
45	Sc	1	2657086	2.00	2688297	98.8	30 - 120	
72	Ge	1	1644365	0.77	1668870	98.5	30 - 120	
115	In	1	4540819	0.91	4545768	99.9	30 - 120	
165	Ho	1	8941115	1.79	8917520	100.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\152_CCV.D\152_CCV.D#
Date Acquired:	Nov 9 2011 02:12 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.21	ppb	1.90	50	100.4	90 - 110	
51	V	72	1	50.32	ppb	0.29	50	100.6	90 - 110	
52	Cr	72	1	50.21	ppb	0.58	50	100.4	90 - 110	
55	Mn	72	1	50.50	ppb	0.75	50	101.0	90 - 110	
59	Co	72	1	50.88	ppb	1.39	50	101.8	90 - 110	
60	Ni	72	1	49.45	ppb	2.09	50	98.9	90 - 110	
63	Cu	72	1	50.08	ppb	0.71	50	100.2	90 - 110	
66	Zn	72	1	49.65	ppb	0.82	50	99.3	90 - 110	
75	As	72	1	49.58	ppb	0.83	50	99.2	90 - 110	
78	Se	72	1	49.32	ppb	1.63	50	98.6	90 - 110	
95	Mo	72	1	49.09	ppb	0.46	50	98.2	90 - 110	
107	Ag	115	1	51.49	ppb	1.61	50	103.0	90 - 110	
111	Cd	115	1	50.02	ppb	1.12	50	100.0	90 - 110	
118	Sn	115	1	48.01	ppb	0.28	50	96.0	90 - 110	
121	Sb	115	1	48.32	ppb	0.24	50	96.6	90 - 110	
137	Ba	115	1	49.91	ppb	0.66	50	99.8	90 - 110	
205	Tl	165	1	50.95	ppb	1.15	50	101.9	90 - 110	
208	Pb	165	1	49.60	ppb	0.85	50	99.2	90 - 110	
232	Th	165	1	50.40	ppb	1.63	50	100.8	90 - 110	
238	U	165	1	50.33	ppb	0.95	50	100.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	502391	0.68	511883	98.1	30 - 120	
45	Sc	1	2649570	1.03	2688297	98.6	30 - 120	
72	Ge	1	1647856	1.60	1668870	98.7	30 - 120	
115	In	1	4512305	0.86	4545768	99.3	30 - 120	
165	Ho	1	8997857	0.91	8917520	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\153_CCB.D\153_CCB.D#
Date Acquired: Nov 9 2011 02:15 am
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	606.32	1.00	
51	V	72	1	0.007	ppb	109.37	1.00	
52	Cr	72	1	0.016	ppb	73.79	1.00	
55	Mn	72	1	0.009	ppb	28.66	1.00	
59	Co	72	1	0.007	ppb	37.01	1.00	
60	Ni	72	1	-0.025	ppb	45.50	1.00	
63	Cu	72	1	0.001	ppb	231.97	1.00	
66	Zn	72	1	-0.049	ppb	6.27	1.00	
75	As	72	1	0.005	ppb	281.74	1.00	
78	Se	72	1	0.075	ppb	290.88	1.00	
95	Mo	72	1	0.020	ppb	45.18	1.00	
107	Ag	115	1	0.012	ppb	8.30	1.00	
111	Cd	115	1	0.004	ppb	56.75	1.00	
118	Sn	115	1	0.002	ppb	40.69	1.00	
121	Sb	115	1	0.019	ppb	15.95	1.00	
137	Ba	115	1	0.010	ppb	38.00	1.00	
205	Tl	165	1	0.028	ppb	8.14	1.00	
208	Pb	165	1	0.009	ppb	23.47	1.00	
232	Th	165	1	0.056	ppb	13.78	1.00	
238	U	165	1	0.012	ppb	7.81	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	504921	1.24	511883	98.6	30 - 120	
45	Sc	1	2650140	0.43	2688297	98.6	30 - 120	
72	Ge	1	1650382	1.36	1668870	98.9	30 - 120	
115	In	1	4522103	0.94	4545768	99.5	30 - 120	
165	Ho	1	8852154	0.86	8917520	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\154WASH.D\154WASH.D#
Date Acquired: Nov 9 2011 02:18 am
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.045 ppb	10.19	1.30	
51	V	72	1	5.052 ppb	2.23	6.50	
52	Cr	72	1	2.250 ppb	2.44	2.60	
55	Mn	72	1	1.224 ppb	3.29	1.30	
59	Co	72	1	1.100 ppb	1.26	1.30	
60	Ni	72	1	2.287 ppb	2.80	2.60	
63	Cu	72	1	2.218 ppb	3.21	2.60	
66	Zn	72	1	10.640 ppb	0.69	13.00	
75	As	72	1	5.227 ppb	1.48	6.50	
78	Se	72	1	5.527 ppb	6.90	6.50	
95	Mo	72	1	2.120 ppb	1.19	2.60	
107	Ag	115	1	5.085 ppb	0.84	6.50	
111	Cd	115	1	1.054 ppb	3.53	1.30	
118	Sn	115	1	9.820 ppb	0.36	13.00	
121	Sb	115	1	2.042 ppb	0.81	2.60	
137	Ba	115	1	1.106 ppb	2.16	1.30	
205	Tl	165	1	1.130 ppb	0.59	1.30	
208	Pb	165	1	1.100 ppb	1.03	1.30	
232	Th	165	1	2.112 ppb	1.04	2.60	
238	U	165	1	1.103 ppb	1.75	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	502771	0.90	511883	98.2	30 - 120	
45	Sc	1	2633614	1.07	2688297	98.0	30 - 120	
72	Ge	1	1641505	0.39	1668870	98.4	30 - 120	
115	In	1	4558468	1.23	4545768	100.3	30 - 120	
165	Ho	1	8900407	0.97	8917520	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\155_BLK.D\155_BLK.D#
Date Acquired:	Nov 9 2011 02:21 am
Operator:	LRD
Sample Name:	mb 280-94465/1-a
Misc Info:	BLANK 94465 6020
Vial Number:	4106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	5773.60	2.00	
51	V	72	1	-0.018	ppb	143.37	2.00	
52	Cr	72	1	-0.015	ppb	100.60	2.00	
55	Mn	72	1	0.052	ppb	6.71	2.00	
59	Co	72	1	0.000	ppb	513.51	2.00	
60	Ni	72	1	-0.036	ppb	16.44	2.00	
63	Cu	72	1	0.029	ppb	5.47	2.00	
66	Zn	72	1	1.277	ppb	3.38	2.00	
75	As	72	1	-0.001	ppb	521.20	2.00	
78	Se	72	1	0.053	ppb	138.63	2.00	
95	Mo	72	1	0.001	ppb	1227.20	2.00	
107	Ag	115	1	0.004	ppb	29.52	2.00	
111	Cd	115	1	0.000	ppb	2447.10	2.00	
118	Sn	115	1	-0.004	ppb	116.30	2.00	
121	Sb	115	1	0.005	ppb	27.69	2.00	
137	Ba	115	1	0.037	ppb	19.13	2.00	
205	Tl	165	1	0.010	ppb	26.41	2.00	
208	Pb	165	1	0.008	ppb	6.26	2.00	
232	Th	165	1	0.013	ppb	11.70	2.00	
238	U	165	1	0.002	ppb	17.66	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	507079	1.28	511883	99.1	30 - 120	
45	Sc	1	2665565	2.29	2688297	99.2	30 - 120	
72	Ge	1	1642588	1.73	1668870	98.4	30 - 120	
115	In	1	4511687	1.40	4545768	99.3	30 - 120	
165	Ho	1	8892599	0.72	8917520	99.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\156AREF.D\156AREF.D#
Date Acquired:	Nov 9 2011 02:24 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a
Misc Info:	94961 DoD4/ 6020A
Vial Number:	3301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.15	0.15	ppb	17.22	3600	
51	V	72	1	7.40	7.40	ppb	1.36	3600	
52	Cr	72	1	13.27	13.27	ppb	1.16	3600	
55	Mn	72	1	1,051.00	1051.00	ppb	0.30	18000	
59	Co	72	1	8.33	8.33	ppb	0.48	3600	
60	Ni	72	1	14.99	14.99	ppb	2.74	3600	
63	Cu	72	1	5.25	5.25	ppb	1.46	3600	
66	Zn	72	1	95.66	95.66	ppb	0.56	3600	
75	As	72	1	2.20	2.20	ppb	2.02	3600	
78	Se	72	1	0.53	0.53	ppb	5.22	3600	
95	Mo	72	1	1.12	1.12	ppb	4.51	3600	
107	Ag	115	1	0.09	0.09	ppb	6.20	3600	
111	Cd	115	1	3.25	3.25	ppb	0.08	3600	
118	Sn	115	1	0.18	0.18	ppb	11.72	3600	
121	Sb	115	1	0.51	0.51	ppb	1.28	3600	
137	Ba	115	1	22.48	22.48	ppb	0.28	3600	
205	Tl	165	1	0.26	0.26	ppb	3.61	3600	
208	Pb	165	1	12.33	12.33	ppb	1.34	3600	
232	Th	165	1	0.65	0.65	ppb	1.83	1000	
238	U	165	1	0.28	0.28	ppb	3.72	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	510361	0.60	511883	99.7	30 - 120	
45	Sc	1	2695760	0.11	2688297	100.3	30 - 120	
72	Ge	1	1623049	0.09	1668870	97.3	30 - 120	
115	In	1	4426098	0.92	4545768	97.4	30 - 120	
165	Ho	1	8898419	1.81	8917520	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\157SDIL.D\157SDIL.D#
Date Acquired:	Nov 9 2011 02:27 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	3302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\156AREF.D\156AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.03	ppb	132.74	0.03	93.7	90 - 110	
51	V	72	1	1.41	ppb	1.66	1.48	95.0	90 - 110	
52	Cr	72	1	2.54	ppb	2.13	2.65	95.5	90 - 110	
55	Mn	72	1	207.70	ppb	1.68	210.20	98.8	90 - 110	
59	Co	72	1	1.62	ppb	2.44	1.67	97.1	90 - 110	
60	Ni	72	1	2.90	ppb	3.66	3.00	96.8	90 - 110	
63	Cu	72	1	1.04	ppb	2.82	1.05	99.1	90 - 110	
66	Zn	72	1	20.97	ppb	0.87	19.13	109.6	90 - 110	
75	As	72	1	0.42	ppb	3.43	0.44	94.5	90 - 110	
78	Se	72	1	0.08	ppb	205.07	0.11	75.0	90 - 110	
95	Mo	72	1	0.21	ppb	11.91	0.22	93.5	90 - 110	
107	Ag	115	1	0.02	ppb	5.75	0.02	107.4	90 - 110	
111	Cd	115	1	0.63	ppb	5.74	0.65	96.6	90 - 110	
118	Sn	115	1	0.06	ppb	39.01	0.04	168.7	90 - 110	
121	Sb	115	1	0.11	ppb	4.72	0.10	109.6	90 - 110	
137	Ba	115	1	4.38	ppb	1.39	4.50	97.3	90 - 110	
205	Tl	165	1	0.05	ppb	3.96	0.05	96.9	90 - 110	
208	Pb	165	1	2.45	ppb	1.05	2.47	99.4	90 - 110	
232	Th	165	1	0.12	ppb	3.16	0.13	91.6	90 - 110	
238	U	165	1	0.05	ppb	5.09	0.06	97.0	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	515369	1.20	511883	100.7	30 - 120	
45	Sc	1	2711400	0.67	2688297	100.9	30 - 120	
72	Ge	1	1687890	0.67	1668870	101.1	30 - 120	
115	In	1	4579297	0.82	4545768	100.7	30 - 120	
165	Ho	1	9090217	0.47	8917520	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\158PDS.D\158PDS.D#
Date Acquired:	Nov 9 2011 02:30 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	197.20	0.15	ppb	0.57	200	98.5	75 - 125	
51 V	72	1	208.90	7.40	ppb	1.20	200	100.7	75 - 125	
52 Cr	72	1	214.30	13.27	ppb	1.81	200	100.5	75 - 125	
55 Mn	72	1	1241.00	1051.00	ppb	0.83	200	99.2	75 - 125	
59 Co	72	1	206.40	8.33	ppb	0.50	200	99.1	75 - 125	
60 Ni	72	1	220.60	14.99	ppb	0.72	200	102.6	75 - 125	
63 Cu	72	1	200.50	5.25	ppb	0.63	200	97.7	75 - 125	
66 Zn	72	1	297.00	95.66	ppb	1.63	200	100.5	75 - 125	
75 As	72	1	199.00	2.20	ppb	0.04	200	98.4	75 - 125	
78 Se	72	1	193.80	0.53	ppb	1.20	200	96.6	75 - 125	
95 Mo	72	1	207.50	1.12	ppb	1.34	200	103.2	75 - 125	
107 Ag	115	1	50.10	0.09	ppb	1.88	50	100.0	75 - 125	
111 Cd	115	1	203.10	3.25	ppb	0.59	200	99.9	75 - 125	
118 Sn	115	1	200.70	0.18	ppb	1.05	200	100.3	75 - 125	
121 Sb	115	1	198.10	0.51	ppb	0.37	200	98.8	75 - 125	
137 Ba	115	1	239.10	22.48	ppb	1.23	200	107.5	75 - 125	
205 Tl	165	1	192.60	0.26	ppb	1.14	200	96.2	75 - 125	
208 Pb	165	1	202.50	12.33	ppb	0.33	200	95.4	75 - 125	
232 Th	165	1	0.66	0.65	ppb	0.91	200	0.3	75 - 125	
238 U	165	1	198.00	0.28	ppb	1.12	200	98.9	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	503795	0.42	511883	98.4	30 - 120	
45 Sc	1	2649127	0.49	2688297	98.5	30 - 120	
72 Ge	1	1608398	0.54	1668870	96.4	30 - 120	
115 In	1	4395307	1.44	4545768	96.7	30 - 120	
165 Ho	1	9019775	1.59	8917520	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\159_MS.D\159_MS.D#
Date Acquired: Nov 9 2011 02:32 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22438-c-11-b ms
Misc Info: MATRIX SPIKE
Vial Number: 3304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	40.11	0.15	ppb	0.58	40	99.9	50 - 150	
51	V	72	1	49.33	7.40	ppb	1.51	40	104.1	50 - 150	
52	Cr	72	1	54.47	13.27	ppb	0.86	40	102.3	50 - 150	
55	Mn	72	1	1069.00	1051.00	ppb	0.83	40	98.0	50 - 150	
59	Co	72	1	49.01	8.33	ppb	0.52	40	101.4	50 - 150	
60	Ni	72	1	54.00	14.99	ppb	1.89	40	98.2	50 - 150	
63	Cu	72	1	43.26	5.25	ppb	0.99	40	95.6	50 - 150	
66	Zn	72	1	130.40	95.66	ppb	0.37	40	96.1	50 - 150	
75	As	72	1	41.12	2.20	ppb	0.42	40	97.4	50 - 150	
78	Se	72	1	38.16	0.53	ppb	1.00	40	94.2	50 - 150	
95	Mo	72	1	40.62	1.12	ppb	1.44	40	98.8	50 - 150	
107	Ag	115	1	39.10	0.09	ppb	0.54	40	97.5	50 - 150	
111	Cd	115	1	42.12	3.25	ppb	0.79	40	97.4	50 - 150	
118	Sn	115	1	22.97	0.18	ppb	1.25	40	57.2	50 - 150	
121	Sb	115	1	34.60	0.51	ppb	0.90	40	85.4	50 - 150	
137	Ba	115	1	62.44	22.48	ppb	0.76	40	99.9	50 - 150	
205	Tl	165	1	40.31	0.26	ppb	1.48	40	100.1	50 - 150	
208	Pb	165	1	50.98	12.33	ppb	1.48	40	97.4	50 - 150	
232	Th	165	1	30.68	0.65	ppb	3.62	40	75.5	50 - 150	
238	U	165	1	41.41	0.28	ppb	2.35	40	102.8	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	512513	1.05	511883	100.1	30 - 120	
45	Sc	1	2675867	1.37	2688297	99.5	30 - 120	
72	Ge	1	1618521	0.65	1668870	97.0	30 - 120	
115	In	1	4474262	0.54	4545768	98.4	30 - 120	
165	Ho	1	8913451	0.82	8917520	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\160_MSD.D\160_MSD.D#
Date Acquired: Nov 9 2011 02:35 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22438-c-11-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\159_MS.D\159_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	40.73	ppb	2.24	40.11	1.53	20	
51	V	72	1	49.62	ppb	0.13	49.33	0.59	20	
52	Cr	72	1	54.72	ppb	1.02	54.47	0.46	20	
55	Mn	72	1	1083.00	ppb	0.68	1069.00	1.30	20	
59	Co	72	1	50.11	ppb	0.66	49.01	2.22	20	
60	Ni	72	1	54.19	ppb	1.44	54.00	0.35	20	
63	Cu	72	1	43.59	ppb	1.39	43.26	0.76	20	
66	Zn	72	1	153.00	ppb	0.93	130.40	15.95	20	
75	As	72	1	40.94	ppb	1.73	41.12	0.44	20	
78	Se	72	1	38.29	ppb	2.69	38.16	0.34	20	
95	Mo	72	1	40.85	ppb	1.82	40.62	0.56	20	
107	Ag	115	1	19.90	ppb	1.38	39.10	65.08	20	
111	Cd	115	1	43.52	ppb	1.14	42.12	3.27	20	
118	Sn	115	1	22.18	ppb	0.82	22.97	3.50	20	
121	Sb	115	1	35.30	ppb	1.00	34.60	2.00	20	
137	Ba	115	1	63.82	ppb	0.84	62.44	2.19	20	
205	Tl	165	1	40.89	ppb	1.04	40.31	1.43	20	
208	Pb	165	1	51.67	ppb	0.85	50.98	1.34	20	
232	Th	165	1	29.84	ppb	1.02	30.68	2.78	20	
238	U	165	1	42.04	ppb	2.39	41.41	1.51	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501902	1.19	511883	98.1	30 - 120	
45	Sc	1	2658513	0.85	2688297	98.9	30 - 120	
72	Ge	1	1632487	1.81	1668870	97.8	30 - 120	
115	In	1	4407045	1.37	4545768	96.9	30 - 120	
165	Ho	1	8968407	0.36	8917520	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\161_CCV.D\161_CCV.D#
Date Acquired:	Nov 9 2011 02:38 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.02	ppb	2.61	50	100.0	90 - 110	
51	V	72	1	51.36	ppb	1.99	50	102.7	90 - 110	
52	Cr	72	1	51.11	ppb	1.79	50	102.2	90 - 110	
55	Mn	72	1	51.49	ppb	2.59	50	103.0	90 - 110	
59	Co	72	1	51.19	ppb	2.25	50	102.4	90 - 110	
60	Ni	72	1	49.63	ppb	1.27	50	99.3	90 - 110	
63	Cu	72	1	51.31	ppb	0.12	50	102.6	90 - 110	
66	Zn	72	1	49.74	ppb	0.98	50	99.5	90 - 110	
75	As	72	1	49.66	ppb	0.65	50	99.3	90 - 110	
78	Se	72	1	49.29	ppb	4.23	50	98.6	90 - 110	
95	Mo	72	1	49.18	ppb	1.36	50	98.4	90 - 110	
107	Ag	115	1	50.90	ppb	0.75	50	101.8	90 - 110	
111	Cd	115	1	49.75	ppb	0.13	50	99.5	90 - 110	
118	Sn	115	1	47.68	ppb	0.66	50	95.4	90 - 110	
121	Sb	115	1	48.34	ppb	0.56	50	96.7	90 - 110	
137	Ba	115	1	49.62	ppb	0.43	50	99.2	90 - 110	
205	Tl	165	1	51.12	ppb	0.20	50	102.2	90 - 110	
208	Pb	165	1	49.64	ppb	0.10	50	99.3	90 - 110	
232	Th	165	1	50.93	ppb	1.95	50	101.9	90 - 110	
238	U	165	1	50.82	ppb	0.78	50	101.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	508138	0.85	511883	99.3	30 - 120	
45	Sc	1	2690369	1.50	2688297	100.1	30 - 120	
72	Ge	1	1672202	0.70	1668870	100.2	30 - 120	
115	In	1	4603188	0.68	4545768	101.3	30 - 120	
165	Ho	1	9016700	0.12	8917520	101.1	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\162_CCB.D\162_CCB.D#
Date Acquired: Nov 9 2011 02:41 am
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	687.90	1.00	
51	V	72	1	0.006	ppb	261.23	1.00	
52	Cr	72	1	0.005	ppb	147.03	1.00	
55	Mn	72	1	0.067	ppb	15.98	1.00	
59	Co	72	1	0.009	ppb	45.65	1.00	
60	Ni	72	1	-0.022	ppb	48.59	1.00	
63	Cu	72	1	0.010	ppb	49.51	1.00	
66	Zn	72	1	-0.019	ppb	44.98	1.00	
75	As	72	1	0.001	ppb	138.76	1.00	
78	Se	72	1	0.091	ppb	340.46	1.00	
95	Mo	72	1	0.010	ppb	54.88	1.00	
107	Ag	115	1	0.016	ppb	8.71	1.00	
111	Cd	115	1	0.006	ppb	69.79	1.00	
118	Sn	115	1	-0.002	ppb	574.36	1.00	
121	Sb	115	1	0.023	ppb	11.40	1.00	
137	Ba	115	1	0.009	ppb	35.35	1.00	
205	Tl	165	1	0.024	ppb	11.14	1.00	
208	Pb	165	1	0.012	ppb	3.92	1.00	
232	Th	165	1	0.050	ppb	7.01	1.00	
238	U	165	1	0.014	ppb	6.55	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	519261	0.94	511883	101.4	30 - 120	
45	Sc	1	2755446	1.88	2688297	102.5	30 - 120	
72	Ge	1	1709753	0.64	1668870	102.4	30 - 120	
115	In	1	4642883	1.68	4545768	102.1	30 - 120	
165	Ho	1	9028824	0.21	8917520	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\163WASH.D\163WASH.D#
Date Acquired: Nov 9 2011 02:44 am
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.115 ppb	12.37	1.30	
51	V	72	1	5.023 ppb	0.39	6.50	
52	Cr	72	1	2.214 ppb	1.07	2.60	
55	Mn	72	1	1.281 ppb	1.41	1.30	
59	Co	72	1	1.113 ppb	1.98	1.30	
60	Ni	72	1	2.259 ppb	0.63	2.60	
63	Cu	72	1	2.226 ppb	3.88	2.60	
66	Zn	72	1	10.620 ppb	1.69	13.00	
75	As	72	1	5.274 ppb	0.70	6.50	
78	Se	72	1	5.105 ppb	11.32	6.50	
95	Mo	72	1	2.120 ppb	1.05	2.60	
107	Ag	115	1	5.113 ppb	0.54	6.50	
111	Cd	115	1	1.085 ppb	1.10	1.30	
118	Sn	115	1	9.809 ppb	0.17	13.00	
121	Sb	115	1	2.053 ppb	0.63	2.60	
137	Ba	115	1	1.128 ppb	0.69	1.30	
205	Tl	165	1	1.108 ppb	0.74	1.30	
208	Pb	165	1	1.089 ppb	1.24	1.30	
232	Th	165	1	2.063 ppb	0.90	2.60	
238	U	165	1	1.082 ppb	1.01	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	515292	1.30	511883	100.7	30 - 120	
45	Sc	1	2702847	2.36	2688297	100.5	30 - 120	
72	Ge	1	1679995	2.53	1668870	100.7	30 - 120	
115	In	1	4596835	1.19	4545768	101.1	30 - 120	
165	Ho	1	9066327	0.98	8917520	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\164_BLK.D\164_BLK.D#
Date Acquired: Nov 9 2011 02:47 am
Operator: LRD
Sample Name: mb 280-94465/1-a
Misc Info: BLANK 94465 6020
Vial Number: 4106
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.008 ppb	173.77	2.00	
51 V	72	1	0.005 ppb	299.09	2.00	
52 Cr	72	1	-0.005 ppb	212.74	2.00	
55 Mn	72	1	0.085 ppb	3.17	2.00	
59 Co	72	1	0.002 ppb	85.81	2.00	
60 Ni	72	1	-0.028 ppb	34.43	2.00	
63 Cu	72	1	0.032 ppb	3.59	2.00	
66 Zn	72	1	1.229 ppb	3.04	2.00	
75 As	72	1	0.002 ppb	359.20	2.00	
78 Se	72	1	0.099 ppb	253.76	2.00	
95 Mo	72	1	-0.003 ppb	93.21	2.00	
107 Ag	115	1	0.003 ppb	23.23	2.00	
111 Cd	115	1	-0.001 ppb	152.72	2.00	
118 Sn	115	1	-0.001 ppb	1448.10	2.00	
121 Sb	115	1	0.007 ppb	9.61	2.00	
137 Ba	115	1	0.034 ppb	26.31	2.00	
205 Tl	165	1	0.007 ppb	9.83	2.00	
208 Pb	165	1	0.011 ppb	2.22	2.00	
232 Th	165	1	0.011 ppb	18.43	2.00	
238 U	165	1	0.003 ppb	16.57	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	515099	0.81	511883	100.6	30 - 120	
45 Sc	1	2739564	0.26	2688297	101.9	30 - 120	
72 Ge	1	1696289	0.67	1668870	101.6	30 - 120	
115 In	1	4622150	0.96	4545768	101.7	30 - 120	
165 Ho	1	9021083	0.32	8917520	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\165_LCS.D\165_LCS.D#
Date Acquired:	Nov 9 2011 02:50 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-94465/2-a
Misc Info:	LCS
Vial Number:	4107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	41.58	3.04	40	104.0	80 - 120	
51	V	72	1	42.26	0.99	40	105.7	80 - 120	
52	Cr	72	1	42.17	2.90	40	105.4	80 - 120	
55	Mn	72	1	41.58	2.50	40	104.0	80 - 120	
59	Co	72	1	41.74	2.93	40	104.4	80 - 120	
60	Ni	72	1	41.19	1.13	40	103.0	80 - 120	
63	Cu	72	1	41.50	2.85	40	103.8	80 - 120	
66	Zn	72	1	42.88	1.40	40	107.2	80 - 120	
75	As	72	1	42.15	0.85	40	105.4	80 - 120	
78	Se	72	1	43.24	5.70	40	108.1	80 - 120	
95	Mo	72	1	40.82	0.60	40	102.1	80 - 120	
107	Ag	115	1	42.22	1.20	40	105.6	80 - 120	
111	Cd	115	1	41.50	0.91	40	103.8	80 - 120	
118	Sn	115	1	39.23	1.36	40	98.1	80 - 120	
121	Sb	115	1	39.68	1.37	40	99.2	80 - 120	
137	Ba	115	1	41.21	1.00	40	103.0	80 - 120	
205	Tl	165	1	43.48	3.25	40	108.7	80 - 120	
208	Pb	165	1	41.89	0.48	40	104.7	80 - 120	
232	Th	165	1	42.27	1.04	40	105.7	80 - 120	
238	U	165	1	42.59	0.36	40	106.5	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	516548	1.89	511883	100.9	30 - 120	
45	Sc	1	2680966	0.52	2688297	99.7	30 - 120	
72	Ge	1	1673097	1.61	1668870	100.3	30 - 120	
115	In	1	4632516	1.47	4545768	101.9	30 - 120	
165	Ho	1	8961076	1.05	8917520	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\166AREF.D\166AREF.D#
Date Acquired:	Nov 9 2011 02:53 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-1-a
Misc Info:	94465 6020
Vial Number:	4108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.00	0.00	ppb	742.38	3600	
51 V	72	1	0.14	0.14	ppb	13.68	3600	
52 Cr	72	1	0.03	0.03	ppb	60.73	3600	
55 Mn	72	1	236.30	236.30	ppb	0.51	18000	
59 Co	72	1	0.06	0.06	ppb	3.25	3600	
60 Ni	72	1	0.27	0.27	ppb	9.39	3600	
63 Cu	72	1	0.44	0.44	ppb	3.22	3600	
66 Zn	72	1	2.05	2.05	ppb	1.83	3600	
75 As	72	1	2.34	2.34	ppb	0.65	3600	
78 Se	72	1	0.21	0.21	ppb	123.27	3600	
95 Mo	72	1	9.02	9.02	ppb	1.09	3600	
107 Ag	115	1	0.01	0.01	ppb	4.28	3600	
111 Cd	115	1	0.00	0.00	ppb	336.29	3600	
118 Sn	115	1	0.10	0.10	ppb	5.77	3600	
121 Sb	115	1	0.22	0.22	ppb	2.56	3600	
137 Ba	115	1	462.30	462.30	ppb	1.88	3600	
205 Tl	165	1	0.03	0.03	ppb	14.55	3600	
208 Pb	165	1	0.05	0.05	ppb	7.29	3600	
232 Th	165	1	0.05	0.05	ppb	8.67	1000	
238 U	165	1	1.67	1.67	ppb	0.92	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	480087	1.42	511883	93.8	30 - 120	
45 Sc	1	2570425	2.17	2688297	95.6	30 - 120	
72 Ge	1	1526260	1.24	1668870	91.5	30 - 120	
115 In	1	4123917	0.74	4545768	90.7	30 - 120	
165 Ho	1	8383768	1.00	8917520	94.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\167SDIL.D\167SDIL.D#
Date Acquired:	Nov 9 2011 02:56 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-1-a SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	4109
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\166AREF.D\166AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	-0.02	ppb	0.00	0.00	2641.8	90 - 110	
51	V	72	1	0.04	ppb	19.21	0.03	139.5	90 - 110	
52	Cr	72	1	0.01	ppb	125.66	0.01	151.1	90 - 110	
55	Mn	72	1	49.57	ppb	1.32	47.26	104.9	90 - 110	
59	Co	72	1	0.01	ppb	13.52	0.01	83.4	90 - 110	
60	Ni	72	1	0.02	ppb	59.83	0.05	44.8	90 - 110	
63	Cu	72	1	0.09	ppb	8.88	0.09	109.0	90 - 110	
66	Zn	72	1	0.43	ppb	2.15	0.41	106.0	90 - 110	
75	As	72	1	0.45	ppb	4.20	0.47	97.2	90 - 110	
78	Se	72	1	0.06	ppb	320.28	0.04	144.9	90 - 110	
95	Mo	72	1	1.74	ppb	2.45	1.80	96.2	90 - 110	
107	Ag	115	1	0.00	ppb	9.64	0.00	130.9	90 - 110	
111	Cd	115	1	0.00	ppb	822.15	0.00	95.0	90 - 110	
118	Sn	115	1	0.03	ppb	18.88	0.02	153.9	90 - 110	
121	Sb	115	1	0.04	ppb	4.04	0.04	98.5	90 - 110	
137	Ba	115	1	90.42	ppb	0.37	92.46	97.8	90 - 110	
205	Tl	165	1	0.01	ppb	7.24	0.01	151.0	90 - 110	
208	Pb	165	1	0.01	ppb	14.86	0.01	97.8	90 - 110	
232	Th	165	1	0.01	ppb	22.15	0.01	139.9	90 - 110	
238	U	165	1	0.34	ppb	2.39	0.33	100.7	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501173	0.83	511883	97.9	30 - 120	
45	Sc	1	2662899	0.78	2688297	99.1	30 - 120	
72	Ge	1	1645503	0.70	1668870	98.6	30 - 120	
115	In	1	4374484	1.27	4545768	96.2	30 - 120	
165	Ho	1	8804416	0.87	8917520	98.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\168PDS.D\168PDS.D#
Date Acquired:	Nov 9 2011 02:58 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-1-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	4110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	210.20	0.00	ppb	0.51	200	105.1	75 - 125	
51 V	72	1	207.20	0.14	ppb	2.22	200	103.5	75 - 125	
52 Cr	72	1	201.70	0.03	ppb	1.89	200	100.8	75 - 125	
55 Mn	72	1	431.80	236.30	ppb	1.68	200	99.0	75 - 125	
59 Co	72	1	193.40	0.06	ppb	0.84	200	96.7	75 - 125	
60 Ni	72	1	198.80	0.27	ppb	1.65	200	99.3	75 - 125	
63 Cu	72	1	189.90	0.44	ppb	1.58	200	94.7	75 - 125	
66 Zn	72	1	196.70	2.05	ppb	1.11	200	97.4	75 - 125	
75 As	72	1	212.40	2.34	ppb	0.77	200	105.0	75 - 125	
78 Se	72	1	207.90	0.21	ppb	1.17	200	103.8	75 - 125	
95 Mo	72	1	220.40	9.02	ppb	1.55	200	105.4	75 - 125	
107 Ag	115	1	48.74	0.01	ppb	2.19	50	97.5	75 - 125	
111 Cd	115	1	203.30	0.00	ppb	0.76	200	101.6	75 - 125	
118 Sn	115	1	203.60	0.10	ppb	1.64	200	101.8	75 - 125	
121 Sb	115	1	208.30	0.22	ppb	1.08	200	104.0	75 - 125	
137 Ba	115	1	669.70	462.30	ppb	1.16	200	101.1	75 - 125	
205 Tl	165	1	190.60	0.03	ppb	1.41	200	95.3	75 - 125	
208 Pb	165	1	187.20	0.05	ppb	2.05	200	93.6	75 - 125	
232 Th	165	1	0.07	0.05	ppb	6.27	200	0.0	75 - 125	
238 U	165	1	200.10	1.67	ppb	3.32	200	99.2	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	472507	0.73	511883	92.3	30 - 120	
45 Sc	1	2516100	0.79	2688297	93.6	30 - 120	
72 Ge	1	1495306	0.94	1668870	89.6	30 - 120	
115 In	1	4042675	0.87	4545768	88.9	30 - 120	
165 Ho	1	8423774	1.68	8917520	94.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\169_MS.D\169_MS.D#	
Date Acquired:	Nov 9 2011 03:01 am	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	LRD	**ISTD: Pass**
Sample Name:	280-22300-c-1-b ms	
Misc Info:	MATRIX SPIKE	
Vial Number:	4111	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 09 2011 02:10 am	
Sample Type:	MS	
Prep Dil. Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	
Spike Ref. File:	---	

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	42.98	0.00	ppb	1.59	40	107.5	50 - 150	
51	V	72	1	43.60	0.14	ppb	1.94	40	108.6	50 - 150	
52	Cr	72	1	42.35	0.03	ppb	1.02	40	105.8	50 - 150	
55	Mn	72	1	279.50	236.30	ppb	1.94	40	101.2	50 - 150	
59	Co	72	1	41.28	0.06	ppb	1.32	40	103.0	50 - 150	
60	Ni	72	1	38.97	0.27	ppb	2.31	40	96.8	50 - 150	
63	Cu	72	1	38.29	0.44	ppb	0.89	40	94.7	50 - 150	
66	Zn	72	1	41.74	2.05	ppb	0.23	40	99.3	50 - 150	
75	As	72	1	44.98	2.34	ppb	1.04	40	106.2	50 - 150	
78	Se	72	1	42.76	0.21	ppb	3.03	40	106.3	50 - 150	
95	Mo	72	1	51.45	9.02	ppb	2.31	40	105.0	50 - 150	
107	Ag	115	1	39.30	0.01	ppb	1.65	40	98.2	50 - 150	
111	Cd	115	1	41.15	0.00	ppb	0.47	40	102.9	50 - 150	
118	Sn	115	1	40.46	0.10	ppb	0.60	40	100.9	50 - 150	
121	Sb	115	1	41.71	0.22	ppb	1.12	40	103.7	50 - 150	
137	Ba	115	1	517.00	462.30	ppb	2.23	40	102.9	50 - 150	
205	Tl	165	1	41.51	0.03	ppb	1.50	40	103.7	50 - 150	
208	Pb	165	1	39.02	0.05	ppb	1.53	40	97.4	50 - 150	
232	Th	165	1	42.87	0.05	ppb	1.92	40	107.0	50 - 150	
238	U	165	1	44.49	1.67	ppb	1.44	40	106.8	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	466531	0.43	511883	91.1	30 - 120	
45	Sc	1	2497196	0.09	2688297	92.9	30 - 120	
72	Ge	1	1507624	1.51	1668870	90.3	30 - 120	
115	In	1	4059045	1.15	4545768	89.3	30 - 120	
165	Ho	1	8312207	1.03	8917520	93.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\170_MSD.D\170_MSD.D#
Date Acquired:	Nov 9 2011 03:04 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-1-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	4112
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\169_MS.D\169_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	42.60	ppb	1.67	42.98	0.89	20	
51	V	72	1	44.08	ppb	2.29	43.60	1.09	20	
52	Cr	72	1	43.04	ppb	1.79	42.35	1.62	20	
55	Mn	72	1	285.90	ppb	3.26	279.50	2.26	20	
59	Co	72	1	41.68	ppb	1.00	41.28	0.96	20	
60	Ni	72	1	39.73	ppb	1.96	38.97	1.93	20	
63	Cu	72	1	38.80	ppb	1.34	38.29	1.32	20	
66	Zn	72	1	41.67	ppb	0.98	41.74	0.17	20	
75	As	72	1	45.30	ppb	1.46	44.98	0.71	20	
78	Se	72	1	43.23	ppb	3.83	42.76	1.09	20	
95	Mo	72	1	52.65	ppb	1.76	51.45	2.31	20	
107	Ag	115	1	39.04	ppb	1.88	39.30	0.66	20	
111	Cd	115	1	40.70	ppb	1.35	41.15	1.10	20	
118	Sn	115	1	40.32	ppb	1.85	40.46	0.35	20	
121	Sb	115	1	41.40	ppb	1.29	41.71	0.75	20	
137	Ba	115	1	514.30	ppb	1.93	517.00	0.52	20	
205	Tl	165	1	40.47	ppb	1.09	41.51	2.54	20	
208	Pb	165	1	38.69	ppb	0.56	39.02	0.85	20	
232	Th	165	1	42.14	ppb	0.60	42.87	1.72	20	
238	U	165	1	44.05	ppb	1.05	44.49	0.99	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	462764	2.43	511883	90.4	30 - 120	
45	Sc	1	2541695	1.94	2688297	94.5	30 - 120	
72	Ge	1	1483298	1.01	1668870	88.9	30 - 120	
115	In	1	4053874	0.93	4545768	89.2	30 - 120	
165	Ho	1	8351619	0.11	8917520	93.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\171SMPL.D\171SMPL.D#
Date Acquired:	Nov 9 2011 03:07 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-2-a
Misc Info:	
Vial Number:	4201
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	138.81	3600	
51	V	72	1	0.48	0.48	ppb	1.02	3600	
52	Cr	72	1	0.35	0.35	ppb	2.11	3600	
55	Mn	72	1	106.00	106.00	ppb	1.57	18000	
59	Co	72	1	0.21	0.21	ppb	4.48	3600	
60	Ni	72	1	0.42	0.42	ppb	8.69	3600	
63	Cu	72	1	0.30	0.30	ppb	3.66	3600	
66	Zn	72	1	2.78	2.78	ppb	1.07	3600	
75	As	72	1	2.80	2.80	ppb	1.71	3600	
78	Se	72	1	0.09	0.09	ppb	254.05	3600	
95	Mo	72	1	7.61	7.61	ppb	0.50	3600	
107	Ag	115	1	0.01	0.01	ppb	6.74	3600	
111	Cd	115	1	0.02	0.02	ppb	44.56	3600	
118	Sn	115	1	0.25	0.25	ppb	7.08	3600	
121	Sb	115	1	0.05	0.05	ppb	2.26	3600	
137	Ba	115	1	229.00	229.00	ppb	1.20	3600	
205	Tl	165	1	0.02	0.02	ppb	5.80	3600	
208	Pb	165	1	0.17	0.17	ppb	2.18	3600	
232	Th	165	1	0.18	0.18	ppb	13.29	1000	
238	U	165	1	0.28	0.28	ppb	0.84	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	473549	0.31	511883	92.5	30 - 120	
45	Sc	1	2523442	0.68	2688297	93.9	30 - 120	
72	Ge	1	1543846	0.56	1668870	92.5	30 - 120	
115	In	1	4149501	1.15	4545768	91.3	30 - 120	
165	Ho	1	8408460	0.47	8917520	94.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\172_CCV.D\172_CCV.D#
Date Acquired:	Nov 9 2011 03:10 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.52	ppb	1.18	50	99.0	90 - 110	
51	V	72	1	50.99	ppb	1.97	50	102.0	90 - 110	
52	Cr	72	1	50.08	ppb	1.98	50	100.2	90 - 110	
55	Mn	72	1	50.26	ppb	0.79	50	100.5	90 - 110	
59	Co	72	1	50.86	ppb	1.35	50	101.7	90 - 110	
60	Ni	72	1	49.21	ppb	1.33	50	98.4	90 - 110	
63	Cu	72	1	49.68	ppb	1.04	50	99.4	90 - 110	
66	Zn	72	1	49.39	ppb	0.75	50	98.8	90 - 110	
75	As	72	1	49.44	ppb	0.62	50	98.9	90 - 110	
78	Se	72	1	49.32	ppb	2.81	50	98.6	90 - 110	
95	Mo	72	1	48.97	ppb	1.06	50	97.9	90 - 110	
107	Ag	115	1	50.55	ppb	0.83	50	101.1	90 - 110	
111	Cd	115	1	49.51	ppb	0.48	50	99.0	90 - 110	
118	Sn	115	1	47.73	ppb	1.64	50	95.5	90 - 110	
121	Sb	115	1	48.34	ppb	0.82	50	96.7	90 - 110	
137	Ba	115	1	50.37	ppb	0.94	50	100.7	90 - 110	
205	Tl	165	1	50.78	ppb	1.15	50	101.6	90 - 110	
208	Pb	165	1	48.94	ppb	1.49	50	97.9	90 - 110	
232	Th	165	1	50.25	ppb	1.85	50	100.5	90 - 110	
238	U	165	1	50.18	ppb	0.11	50	100.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	494065	1.38	511883	96.5	30 - 120	
45	Sc	1	2586643	2.25	2688297	96.2	30 - 120	
72	Ge	1	1607623	1.46	1668870	96.3	30 - 120	
115	In	1	4416448	0.73	4545768	97.2	30 - 120	
165	Ho	1	8811229	1.28	8917520	98.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\173_CCB.D\173_CCB.D#
Date Acquired:	Nov 9 2011 03:13 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.003	ppb	385.24	1.00	
51	V	72	1	0.009	ppb	108.94	1.00	
52	Cr	72	1	0.017	ppb	63.25	1.00	
55	Mn	72	1	0.029	ppb	16.51	1.00	
59	Co	72	1	0.007	ppb	23.16	1.00	
60	Ni	72	1	-0.020	ppb	7.15	1.00	
63	Cu	72	1	0.010	ppb	31.13	1.00	
66	Zn	72	1	-0.020	ppb	42.88	1.00	
75	As	72	1	0.012	ppb	85.08	1.00	
78	Se	72	1	0.056	ppb	146.62	1.00	
95	Mo	72	1	0.014	ppb	67.09	1.00	
107	Ag	115	1	0.014	ppb	10.47	1.00	
111	Cd	115	1	0.003	ppb	115.25	1.00	
118	Sn	115	1	0.000	ppb	9520.10	1.00	
121	Sb	115	1	0.017	ppb	6.91	1.00	
137	Ba	115	1	0.024	ppb	13.44	1.00	
205	Tl	165	1	0.021	ppb	14.69	1.00	
208	Pb	165	1	0.011	ppb	7.65	1.00	
232	Th	165	1	0.052	ppb	9.05	1.00	
238	U	165	1	0.013	ppb	6.70	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	485587	1.18	511883	94.9	30 - 120	
45	Sc	1	2583865	2.21	2688297	96.1	30 - 120	
72	Ge	1	1608983	0.77	1668870	96.4	30 - 120	
115	In	1	4434167	0.65	4545768	97.5	30 - 120	
165	Ho	1	8706724	0.59	8917520	97.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\174SMPL.D\174SMPL.D#
Date Acquired:	Nov 9 2011 03:16 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-3-a
Misc Info:	
Vial Number:	4202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	105.84	3600	
51	V	72	1	0.45	0.45	ppb	16.13	3600	
52	Cr	72	1	0.25	0.25	ppb	9.54	3600	
55	Mn	72	1	123.60	123.60	ppb	2.71	18000	
59	Co	72	1	0.29	0.29	ppb	4.16	3600	
60	Ni	72	1	0.59	0.59	ppb	3.12	3600	
63	Cu	72	1	0.62	0.62	ppb	1.30	3600	
66	Zn	72	1	6.56	6.56	ppb	0.90	3600	
75	As	72	1	3.72	3.72	ppb	2.38	3600	
78	Se	72	1	0.41	0.41	ppb	64.13	3600	
95	Mo	72	1	1.55	1.55	ppb	4.32	3600	
107	Ag	115	1	0.01	0.01	ppb	21.82	3600	
111	Cd	115	1	0.01	0.01	ppb	54.81	3600	
118	Sn	115	1	0.17	0.17	ppb	7.88	3600	
121	Sb	115	1	0.03	0.03	ppb	10.08	3600	
137	Ba	115	1	267.10	267.10	ppb	0.26	3600	
205	Tl	165	1	0.03	0.03	ppb	17.24	3600	
208	Pb	165	1	0.18	0.18	ppb	1.42	3600	
232	Th	165	1	0.07	0.07	ppb	9.03	1000	
238	U	165	1	0.20	0.20	ppb	1.16	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	477580	0.82	511883	93.3	30 - 120	
45	Sc	1	2551600	0.77	2688297	94.9	30 - 120	
72	Ge	1	1556803	1.17	1668870	93.3	30 - 120	
115	In	1	4205353	0.93	4545768	92.5	30 - 120	
165	Ho	1	8476427	0.23	8917520	95.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\175SMPL.D\175SMPL.D#
Date Acquired:	Nov 9 2011 03:19 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-4-a
Misc Info:	
Vial Number:	4203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	113.36	3600	
51	V	72	1	0.16	0.16	ppb	15.76	3600	
52	Cr	72	1	0.08	0.08	ppb	11.56	3600	
55	Mn	72	1	160.90	160.90	ppb	2.47	18000	
59	Co	72	1	0.14	0.14	ppb	4.62	3600	
60	Ni	72	1	0.19	0.19	ppb	6.07	3600	
63	Cu	72	1	0.33	0.33	ppb	1.70	3600	
66	Zn	72	1	2.45	2.45	ppb	3.73	3600	
75	As	72	1	0.50	0.50	ppb	2.18	3600	
78	Se	72	1	0.16	0.16	ppb	128.22	3600	
95	Mo	72	1	0.39	0.39	ppb	5.61	3600	
107	Ag	115	1	0.00	0.00	ppb	31.94	3600	
111	Cd	115	1	0.00	0.00	ppb	184.89	3600	
118	Sn	115	1	0.22	0.22	ppb	0.77	3600	
121	Sb	115	1	0.02	0.02	ppb	13.17	3600	
137	Ba	115	1	220.90	220.90	ppb	2.54	3600	
205	Tl	165	1	0.01	0.01	ppb	6.11	3600	
208	Pb	165	1	0.11	0.11	ppb	1.43	3600	
232	Th	165	1	0.02	0.02	ppb	4.26	1000	
238	U	165	1	0.03	0.03	ppb	4.15	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	470293	1.17	511883	91.9	30 - 120	
45	Sc	1	2544439	0.97	2688297	94.6	30 - 120	
72	Ge	1	1525095	0.29	1668870	91.4	30 - 120	
115	In	1	4149107	0.35	4545768	91.3	30 - 120	
165	Ho	1	8468870	0.59	8917520	95.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\176SMPL.D\176SMPL.D#
Date Acquired:	Nov 9 2011 03:22 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-5-a
Misc Info:	
Vial Number:	4204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	964.98	3600	
51	V	72	1	0.06	0.06	ppb	39.59	3600	
52	Cr	72	1	0.15	0.15	ppb	14.11	3600	
55	Mn	72	1	266.80	266.80	ppb	1.45	18000	
59	Co	72	1	0.06	0.06	ppb	4.73	3600	
60	Ni	72	1	0.35	0.35	ppb	7.95	3600	
63	Cu	72	1	0.24	0.24	ppb	2.81	3600	
66	Zn	72	1	2.46	2.46	ppb	3.48	3600	
75	As	72	1	0.27	0.27	ppb	5.40	3600	
78	Se	72	1	0.12	0.12	ppb	174.84	3600	
95	Mo	72	1	0.27	0.27	ppb	4.74	3600	
107	Ag	115	1	0.01	0.01	ppb	17.89	3600	
111	Cd	115	1	0.01	0.01	ppb	43.33	3600	
118	Sn	115	1	0.44	0.44	ppb	11.42	3600	
121	Sb	115	1	0.02	0.02	ppb	3.67	3600	
137	Ba	115	1	805.30	805.30	ppb	1.86	3600	
205	Tl	165	1	0.02	0.02	ppb	4.46	3600	
208	Pb	165	1	0.06	0.06	ppb	2.47	3600	
232	Th	165	1	0.02	0.02	ppb	29.58	1000	
238	U	165	1	0.08	0.08	ppb	3.61	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	449118	2.48	511883	87.7	30 - 120	
45	Sc	1	2396801	1.81	2688297	89.2	30 - 120	
72	Ge	1	1423018	1.50	1668870	85.3	30 - 120	
115	In	1	3853878	1.93	4545768	84.8	30 - 120	
165	Ho	1	7903628	4.10	8917520	88.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\177SMPL.D\177SMPL.D#
Date Acquired:	Nov 9 2011 03:25 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-6-a
Misc Info:	
Vial Number:	4205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	390.15	3600	
51	V	72	1	0.15	0.15	ppb	8.91	3600	
52	Cr	72	1	0.03	0.03	ppb	1.69	3600	
55	Mn	72	1	182.00	182.00	ppb	2.07	18000	
59	Co	72	1	0.08	0.08	ppb	7.48	3600	
60	Ni	72	1	0.33	0.33	ppb	3.80	3600	
63	Cu	72	1	0.12	0.12	ppb	2.79	3600	
66	Zn	72	1	2.08	2.08	ppb	2.43	3600	
75	As	72	1	0.35	0.35	ppb	5.05	3600	
78	Se	72	1	0.14	0.14	ppb	66.70	3600	
95	Mo	72	1	0.19	0.19	ppb	4.06	3600	
107	Ag	115	1	0.00	0.00	ppb	34.35	3600	
111	Cd	115	1	0.00	0.00	ppb	55.82	3600	
118	Sn	115	1	0.01	0.01	ppb	99.40	3600	
121	Sb	115	1	0.02	0.02	ppb	13.81	3600	
137	Ba	115	1	555.80	555.80	ppb	0.75	3600	
205	Tl	165	1	0.01	0.01	ppb	10.27	3600	
208	Pb	165	1	0.03	0.03	ppb	8.02	3600	
232	Th	165	1	0.00	0.00	ppb	41.57	1000	
238	U	165	1	0.04	0.04	ppb	4.10	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454232	1.06	511883	88.7	30 - 120	
45	Sc	1	2441476	1.55	2688297	90.8	30 - 120	
72	Ge	1	1459554	1.44	1668870	87.5	30 - 120	
115	In	1	4007190	1.35	4545768	88.2	30 - 120	
165	Ho	1	8163298	0.75	8917520	91.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\178SMPL.D\178SMPL.D#
Date Acquired:	Nov 9 2011 03:28 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-7-a
Misc Info:	
Vial Number:	4206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	401.31	3600	
51	V	72	1	0.14	0.14	ppb	7.78	3600	
52	Cr	72	1	0.03	0.03	ppb	29.99	3600	
55	Mn	72	1	214.80	214.80	ppb	0.81	18000	
59	Co	72	1	0.07	0.07	ppb	11.80	3600	
60	Ni	72	1	0.30	0.30	ppb	7.53	3600	
63	Cu	72	1	0.05	0.05	ppb	2.52	3600	
66	Zn	72	1	2.05	2.05	ppb	1.92	3600	
75	As	72	1	0.35	0.35	ppb	3.39	3600	
78	Se	72	1	0.01	0.01	ppb	242.01	3600	
95	Mo	72	1	0.10	0.10	ppb	14.18	3600	
107	Ag	115	1	0.00	0.00	ppb	13.87	3600	
111	Cd	115	1	0.00	0.00	ppb	106.36	3600	
118	Sn	115	1	0.00	0.00	ppb	143.71	3600	
121	Sb	115	1	0.02	0.02	ppb	17.05	3600	
137	Ba	115	1	688.80	688.80	ppb	0.97	3600	
205	Tl	165	1	0.01	0.01	ppb	10.04	3600	
208	Pb	165	1	0.01	0.01	ppb	6.13	3600	
232	Th	165	1	0.00	0.00	ppb	52.51	1000	
238	U	165	1	0.02	0.02	ppb	8.51	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	438966	0.94	511883	85.8	30 - 120	
45	Sc	1	2396539	0.41	2688297	89.1	30 - 120	
72	Ge	1	1422227	1.28	1668870	85.2	30 - 120	
115	In	1	3894018	1.44	4545768	85.7	30 - 120	
165	Ho	1	7954413	0.42	8917520	89.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\179SMPL.D\179SMPL.D#
Date Acquired: Nov 9 2011 03:31 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-8-a
Misc Info:
Vial Number: 4207
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	220.41	3600	
51	V	72	1	0.04	0.04	ppb	18.85	3600	
52	Cr	72	1	0.01	0.01	ppb	185.54	3600	
55	Mn	72	1	135.30	135.30	ppb	1.76	18000	
59	Co	72	1	0.21	0.21	ppb	4.19	3600	
60	Ni	72	1	0.30	0.30	ppb	8.65	3600	
63	Cu	72	1	0.11	0.11	ppb	8.11	3600	
66	Zn	72	1	1.73	1.73	ppb	1.68	3600	
75	As	72	1	2.33	2.33	ppb	1.18	3600	
78	Se	72	1	0.18	0.18	ppb	107.60	3600	
95	Mo	72	1	0.48	0.48	ppb	2.92	3600	
107	Ag	115	1	0.00	0.00	ppb	89.96	3600	
111	Cd	115	1	0.01	0.01	ppb	80.22	3600	
118	Sn	115	1	0.04	0.04	ppb	8.87	3600	
121	Sb	115	1	0.03	0.03	ppb	18.31	3600	
137	Ba	115	1	324.90	324.90	ppb	0.65	3600	
205	Tl	165	1	0.01	0.01	ppb	20.13	3600	
208	Pb	165	1	0.02	0.02	ppb	11.57	3600	
232	Th	165	1	0.00	0.00	ppb	53.98	1000	
238	U	165	1	0.28	0.28	ppb	0.50	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454297	0.96	511883	88.8	30 - 120	
45	Sc	1	2463850	1.33	2688297	91.7	30 - 120	
72	Ge	1	1489968	1.74	1668870	89.3	30 - 120	
115	In	1	4034749	1.37	4545768	88.8	30 - 120	
165	Ho	1	8200805	0.15	8917520	92.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\180SMPL.D\180SMPL.D#
Date Acquired:	Nov 9 2011 03:33 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-9-a
Misc Info:	
Vial Number:	4208
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	82.97	3600	
51	V	72	1	2.63	2.63	ppb	4.44	3600	
52	Cr	72	1	0.06	0.06	ppb	56.07	3600	
55	Mn	72	1	84.55	84.55	ppb	4.00	18000	
59	Co	72	1	2.16	2.16	ppb	3.05	3600	
60	Ni	72	1	6.16	6.16	ppb	0.32	3600	
63	Cu	72	1	0.59	0.59	ppb	2.49	3600	
66	Zn	72	1	1.75	1.75	ppb	3.99	3600	
75	As	72	1	0.50	0.50	ppb	5.18	3600	
78	Se	72	1	0.39	0.39	ppb	45.27	3600	
95	Mo	72	1	0.71	0.71	ppb	3.48	3600	
107	Ag	115	1	0.00	0.00	ppb	25.14	3600	
111	Cd	115	1	0.01	0.01	ppb	181.94	3600	
118	Sn	115	1	0.02	0.02	ppb	42.03	3600	
121	Sb	115	1	0.03	0.03	ppb	8.65	3600	
137	Ba	115	1	49.98	49.98	ppb	1.06	3600	
205	Tl	165	1	0.01	0.01	ppb	19.72	3600	
208	Pb	165	1	0.03	0.03	ppb	7.27	3600	
232	Th	165	1	0.01	0.01	ppb	14.12	1000	
238	U	165	1	15.02	15.02	ppb	1.01	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	417262	1.88	511883	81.5	30 - 120	
45	Sc	1	2298555	1.25	2688297	85.5	30 - 120	
72	Ge	1	1375881	1.14	1668870	82.4	30 - 120	
115	In	1	3816328	0.92	4545768	84.0	30 - 120	
165	Ho	1	7707277	1.02	8917520	86.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\181SMPL.D\181SMPL.D#
Date Acquired:	Nov 9 2011 03:36 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-10-a
Misc Info:	
Vial Number:	4209
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	374.94	3600	
51	V	72	1	0.19	0.19	ppb	17.61	3600	
52	Cr	72	1	0.16	0.16	ppb	7.04	3600	
55	Mn	72	1	114.80	114.80	ppb	1.15	18000	
59	Co	72	1	0.18	0.18	ppb	4.95	3600	
60	Ni	72	1	0.19	0.19	ppb	17.97	3600	
63	Cu	72	1	0.09	0.09	ppb	12.69	3600	
66	Zn	72	1	1.62	1.62	ppb	1.30	3600	
75	As	72	1	2.23	2.23	ppb	3.11	3600	
78	Se	72	1	0.12	0.12	ppb	110.23	3600	
95	Mo	72	1	1.16	1.16	ppb	3.35	3600	
107	Ag	115	1	0.00	0.00	ppb	31.54	3600	
111	Cd	115	1	0.00	0.00	ppb	262.70	3600	
118	Sn	115	1	0.02	0.02	ppb	60.01	3600	
121	Sb	115	1	0.01	0.01	ppb	22.75	3600	
137	Ba	115	1	282.50	282.50	ppb	0.62	3600	
205	Tl	165	1	0.01	0.01	ppb	9.79	3600	
208	Pb	165	1	0.09	0.09	ppb	1.31	3600	
232	Th	165	1	0.04	0.04	ppb	6.46	1000	
238	U	165	1	0.19	0.19	ppb	2.94	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	452032	0.28	511883	88.3	30 - 120	
45	Sc	1	2420185	0.94	2688297	90.0	30 - 120	
72	Ge	1	1481859	2.10	1668870	88.8	30 - 120	
115	In	1	4059521	0.99	4545768	89.3	30 - 120	
165	Ho	1	8247891	0.69	8917520	92.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\182_CCV.D\182_CCV.D#
Date Acquired:	Nov 9 2011 03:39 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.09	ppb	1.64	50	100.2	90 - 110	
51	V	72	1	51.60	ppb	0.71	50	103.2	90 - 110	
52	Cr	72	1	51.13	ppb	1.70	50	102.3	90 - 110	
55	Mn	72	1	50.99	ppb	0.82	50	102.0	90 - 110	
59	Co	72	1	51.12	ppb	2.08	50	102.2	90 - 110	
60	Ni	72	1	49.60	ppb	0.38	50	99.2	90 - 110	
63	Cu	72	1	49.95	ppb	0.85	50	99.9	90 - 110	
66	Zn	72	1	49.79	ppb	0.17	50	99.6	90 - 110	
75	As	72	1	49.94	ppb	0.28	50	99.9	90 - 110	
78	Se	72	1	50.67	ppb	2.41	50	101.3	90 - 110	
95	Mo	72	1	49.63	ppb	1.00	50	99.3	90 - 110	
107	Ag	115	1	49.77	ppb	1.65	50	99.5	90 - 110	
111	Cd	115	1	49.41	ppb	1.08	50	98.8	90 - 110	
118	Sn	115	1	48.16	ppb	0.50	50	96.3	90 - 110	
121	Sb	115	1	48.53	ppb	0.89	50	97.1	90 - 110	
137	Ba	115	1	50.31	ppb	1.29	50	100.6	90 - 110	
205	Tl	165	1	51.36	ppb	0.86	50	102.7	90 - 110	
208	Pb	165	1	50.08	ppb	0.57	50	100.2	90 - 110	
232	Th	165	1	50.98	ppb	0.93	50	102.0	90 - 110	
238	U	165	1	51.74	ppb	0.57	50	103.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	470704	0.73	511883	92.0	30 - 120	
45	Sc	1	2494139	0.82	2688297	92.8	30 - 120	
72	Ge	1	1548741	0.32	1668870	92.8	30 - 120	
115	In	1	4313322	1.14	4545768	94.9	30 - 120	
165	Ho	1	8497951	0.79	8917520	95.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\183_CCB.D\183_CCB.D#
Date Acquired:	Nov 9 2011 03:42 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.006	ppb	258.15	1.00	
51	V	72	1	0.004	ppb	502.56	1.00	
52	Cr	72	1	-0.002	ppb	1337.70	1.00	
55	Mn	72	1	0.021	ppb	22.30	1.00	
59	Co	72	1	0.006	ppb	4.47	1.00	
60	Ni	72	1	-0.025	ppb	11.85	1.00	
63	Cu	72	1	0.009	ppb	80.21	1.00	
66	Zn	72	1	-0.024	ppb	23.07	1.00	
75	As	72	1	-0.002	ppb	533.23	1.00	
78	Se	72	1	0.042	ppb	282.83	1.00	
95	Mo	72	1	0.001	ppb	759.22	1.00	
107	Ag	115	1	0.012	ppb	31.74	1.00	
111	Cd	115	1	0.002	ppb	488.67	1.00	
118	Sn	115	1	-0.005	ppb	21.46	1.00	
121	Sb	115	1	0.016	ppb	19.05	1.00	
137	Ba	115	1	0.026	ppb	15.66	1.00	
205	Tl	165	1	0.020	ppb	13.89	1.00	
208	Pb	165	1	0.009	ppb	9.97	1.00	
232	Th	165	1	0.051	ppb	7.95	1.00	
238	U	165	1	0.010	ppb	4.25	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	467131	0.55	511883	91.3	30 - 120	
45	Sc	1	2492413	0.79	2688297	92.7	30 - 120	
72	Ge	1	1574009	1.63	1668870	94.3	30 - 120	
115	In	1	4311366	1.10	4545768	94.8	30 - 120	
165	Ho	1	8524186	1.05	8917520	95.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\184SMPL.D\184SMPL.D#
Date Acquired:	Nov 9 2011 03:45 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-11-a
Misc Info:	
Vial Number:	4210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	26.37	3600	
51	V	72	1	2.13	2.13	ppb	2.07	3600	
52	Cr	72	1	0.03	0.03	ppb	4.91	3600	
55	Mn	72	1	2.72	2.72	ppb	1.27	18000	
59	Co	72	1	0.05	0.05	ppb	9.74	3600	
60	Ni	72	1	0.33	0.33	ppb	4.07	3600	
63	Cu	72	1	0.16	0.16	ppb	8.92	3600	
66	Zn	72	1	1.68	1.68	ppb	2.52	3600	
75	As	72	1	0.44	0.44	ppb	3.50	3600	
78	Se	72	1	1.26	1.26	ppb	23.52	3600	
95	Mo	72	1	0.33	0.33	ppb	8.69	3600	
107	Ag	115	1	0.01	0.01	ppb	33.39	3600	
111	Cd	115	1	0.00	0.00	ppb	457.13	3600	
118	Sn	115	1	-0.01	-0.01	ppb	84.83	3600	
121	Sb	115	1	0.01	0.01	ppb	6.68	3600	
137	Ba	115	1	356.50	356.50	ppb	0.71	3600	
205	Tl	165	1	0.02	0.02	ppb	30.36	3600	
208	Pb	165	1	0.02	0.02	ppb	7.88	3600	
232	Th	165	1	0.03	0.03	ppb	13.56	1000	
238	U	165	1	10.50	10.50	ppb	0.75	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	429519	0.94	511883	83.9	30 - 120	
45	Sc	1	2405506	0.69	2688297	89.5	30 - 120	
72	Ge	1	1447597	0.51	1668870	86.7	30 - 120	
115	In	1	3919463	0.28	4545768	86.2	30 - 120	
165	Ho	1	8003360	0.63	8917520	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\185SMPL.D\185SMPL.D#
Date Acquired: Nov 9 2011 03:48 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-12-a
Misc Info:
Vial Number: 4211
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	578.32	3600	
51	V	72	1	0.48	0.48	ppb	10.01	3600	
52	Cr	72	1	0.01	0.01	ppb	64.59	3600	
55	Mn	72	1	324.90	324.90	ppb	1.82	18000	
59	Co	72	1	0.47	0.47	ppb	5.23	3600	
60	Ni	72	1	0.49	0.49	ppb	5.74	3600	
63	Cu	72	1	0.07	0.07	ppb	21.78	3600	
66	Zn	72	1	2.07	2.07	ppb	2.53	3600	
75	As	72	1	2.06	2.06	ppb	1.02	3600	
78	Se	72	1	0.24	0.24	ppb	65.28	3600	
95	Mo	72	1	4.67	4.67	ppb	1.58	3600	
107	Ag	115	1	0.00	0.00	ppb	106.66	3600	
111	Cd	115	1	0.00	0.00	ppb	88.61	3600	
118	Sn	115	1	0.04	0.04	ppb	18.95	3600	
121	Sb	115	1	0.03	0.03	ppb	19.37	3600	
137	Ba	115	1	480.70	480.70	ppb	1.82	3600	
205	Tl	165	1	0.01	0.01	ppb	9.15	3600	
208	Pb	165	1	0.04	0.04	ppb	18.67	3600	
232	Th	165	1	0.01	0.01	ppb	6.98	1000	
238	U	165	1	1.74	1.74	ppb	1.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	436638	0.88	511883	85.3	30 - 120	
45	Sc	1	2405130	0.55	2688297	89.5	30 - 120	
72	Ge	1	1438329	1.13	1668870	86.2	30 - 120	
115	In	1	3954536	0.31	4545768	87.0	30 - 120	
165	Ho	1	8036430	0.37	8917520	90.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\186SMPL.D\186SMPL.D#
Date Acquired: Nov 9 2011 03:51 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-13-a
Misc Info:
Vial Number: 4212
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	5.20	3600	
51	V	72	1	0.16	0.16	ppb	5.75	3600	
52	Cr	72	1	0.12	0.12	ppb	16.40	3600	
55	Mn	72	1	138.90	138.90	ppb	1.60	18000	
59	Co	72	1	0.22	0.22	ppb	7.90	3600	
60	Ni	72	1	0.46	0.46	ppb	9.51	3600	
63	Cu	72	1	0.31	0.31	ppb	2.95	3600	
66	Zn	72	1	3.01	3.01	ppb	0.61	3600	
75	As	72	1	4.30	4.30	ppb	0.72	3600	
78	Se	72	1	0.26	0.26	ppb	39.50	3600	
95	Mo	72	1	4.02	4.02	ppb	1.92	3600	
107	Ag	115	1	0.00	0.00	ppb	39.46	3600	
111	Cd	115	1	0.01	0.01	ppb	131.28	3600	
118	Sn	115	1	0.08	0.08	ppb	21.83	3600	
121	Sb	115	1	0.20	0.20	ppb	3.46	3600	
137	Ba	115	1	336.10	336.10	ppb	0.66	3600	
205	Tl	165	1	0.01	0.01	ppb	15.77	3600	
208	Pb	165	1	0.09	0.09	ppb	3.18	3600	
232	Th	165	1	0.05	0.05	ppb	4.47	1000	
238	U	165	1	2.43	2.43	ppb	1.54	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	441618	2.18	511883	86.3	30 - 120	
45	Sc	1	2404187	1.27	2688297	89.4	30 - 120	
72	Ge	1	1470899	0.88	1668870	88.1	30 - 120	
115	In	1	4043567	0.57	4545768	89.0	30 - 120	
165	Ho	1	8204240	1.18	8917520	92.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\187SMPL.D\187SMPL.D#
Date Acquired:	Nov 9 2011 03:54 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-14-a
Misc Info:	
Vial Number:	4301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	110.95	3600	
51	V	72	1	0.31	0.31	ppb	0.70	3600	
52	Cr	72	1	0.12	0.12	ppb	2.24	3600	
55	Mn	72	1	300.10	300.10	ppb	1.02	18000	
59	Co	72	1	0.47	0.47	ppb	1.43	3600	
60	Ni	72	1	0.55	0.55	ppb	8.77	3600	
63	Cu	72	1	0.17	0.17	ppb	2.75	3600	
66	Zn	72	1	1.91	1.91	ppb	1.42	3600	
75	As	72	1	1.17	1.17	ppb	2.38	3600	
78	Se	72	1	0.26	0.26	ppb	74.73	3600	
95	Mo	72	1	1.11	1.11	ppb	5.75	3600	
107	Ag	115	1	0.00	0.00	ppb	51.04	3600	
111	Cd	115	1	0.00	0.00	ppb	390.43	3600	
118	Sn	115	1	0.03	0.03	ppb	26.23	3600	
121	Sb	115	1	0.01	0.01	ppb	23.25	3600	
137	Ba	115	1	618.60	618.60	ppb	1.08	3600	
205	Tl	165	1	0.01	0.01	ppb	5.64	3600	
208	Pb	165	1	0.05	0.05	ppb	3.26	3600	
232	Th	165	1	0.02	0.02	ppb	10.69	1000	
238	U	165	1	0.48	0.48	ppb	0.23	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	425913	1.18	511883	83.2	30 - 120	
45	Sc	1	2363681	1.14	2688297	87.9	30 - 120	
72	Ge	1	1398801	0.34	1668870	83.8	30 - 120	
115	In	1	3864577	1.05	4545768	85.0	30 - 120	
165	Ho	1	7851693	0.42	8917520	88.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\188SMPL.D\188SMPL.D#
Date Acquired: Nov 9 2011 03:57 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-16-a
Misc Info:
Vial Number: 4302
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	227.48	3600	
51	V	72	1	0.20	0.20	ppb	7.51	3600	
52	Cr	72	1	0.01	0.01	ppb	42.06	3600	
55	Mn	72	1	150.10	150.10	ppb	0.97	18000	
59	Co	72	1	0.36	0.36	ppb	4.09	3600	
60	Ni	72	1	0.30	0.30	ppb	16.51	3600	
63	Cu	72	1	0.08	0.08	ppb	2.66	3600	
66	Zn	72	1	2.10	2.10	ppb	2.54	3600	
75	As	72	1	1.10	1.10	ppb	4.78	3600	
78	Se	72	1	0.05	0.05	ppb	417.13	3600	
95	Mo	72	1	0.70	0.70	ppb	2.12	3600	
107	Ag	115	1	0.00	0.00	ppb	33.06	3600	
111	Cd	115	1	0.00	0.00	ppb	487.74	3600	
118	Sn	115	1	0.01	0.01	ppb	24.00	3600	
121	Sb	115	1	0.01	0.01	ppb	21.55	3600	
137	Ba	115	1	505.30	505.30	ppb	1.44	3600	
205	Tl	165	1	0.01	0.01	ppb	10.89	3600	
208	Pb	165	1	0.02	0.02	ppb	5.23	3600	
232	Th	165	1	0.00	0.00	ppb	27.38	1000	
238	U	165	1	3.03	3.03	ppb	0.23	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	428691	1.11	511883	83.7	30 - 120	
45	Sc	1	2352792	1.89	2688297	87.5	30 - 120	
72	Ge	1	1426925	1.16	1668870	85.5	30 - 120	
115	In	1	3922551	0.62	4545768	86.3	30 - 120	
165	Ho	1	8014279	0.40	8917520	89.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\189SMPL.D\189SMPL.D#
Date Acquired:	Nov 9 2011 04:00 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-17-a
Misc Info:	
Vial Number:	4303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	50.96	3600	
51	V	72	1	0.54	0.54	ppb	1.11	3600	
52	Cr	72	1	0.15	0.15	ppb	9.75	3600	
55	Mn	72	1	250.10	250.10	ppb	0.60	18000	
59	Co	72	1	0.61	0.61	ppb	1.90	3600	
60	Ni	72	1	0.99	0.99	ppb	5.06	3600	
63	Cu	72	1	0.13	0.13	ppb	7.24	3600	
66	Zn	72	1	2.24	2.24	ppb	0.32	3600	
75	As	72	1	8.83	8.83	ppb	0.11	3600	
78	Se	72	1	0.43	0.43	ppb	26.66	3600	
95	Mo	72	1	4.88	4.88	ppb	1.46	3600	
107	Ag	115	1	0.00	0.00	ppb	52.93	3600	
111	Cd	115	1	0.01	0.01	ppb	39.24	3600	
118	Sn	115	1	0.01	0.01	ppb	97.05	3600	
121	Sb	115	1	0.39	0.39	ppb	6.21	3600	
137	Ba	115	1	240.00	240.00	ppb	0.76	3600	
205	Tl	165	1	0.01	0.01	ppb	7.08	3600	
208	Pb	165	1	0.14	0.14	ppb	2.93	3600	
232	Th	165	1	0.06	0.06	ppb	2.68	1000	
238	U	165	1	8.43	8.43	ppb	0.22	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	403908	0.33	511883	78.9	30 - 120	
45	Sc	1	2223024	1.86	2688297	82.7	30 - 120	
72	Ge	1	1377674	0.51	1668870	82.6	30 - 120	
115	In	1	3759832	0.37	4545768	82.7	30 - 120	
165	Ho	1	7748314	0.78	8917520	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\190SMPL.D\190SMPL.D#
Date Acquired:	Nov 9 2011 04:03 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-18-a
Misc Info:	
Vial Number:	4304
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	42.64	3600	
51	V	72	1	1.21	1.21	ppb	0.96	3600	
52	Cr	72	1	0.05	0.05	ppb	36.67	3600	
55	Mn	72	1	452.50	452.50	ppb	0.15	18000	
59	Co	72	1	1.58	1.58	ppb	0.75	3600	
60	Ni	72	1	2.24	2.24	ppb	2.66	3600	
63	Cu	72	1	0.22	0.22	ppb	6.18	3600	
66	Zn	72	1	1.63	1.63	ppb	1.45	3600	
75	As	72	1	0.67	0.67	ppb	6.93	3600	
78	Se	72	1	0.16	0.16	ppb	141.70	3600	
95	Mo	72	1	0.18	0.18	ppb	7.39	3600	
107	Ag	115	1	0.00	0.00	ppb	21.23	3600	
111	Cd	115	1	0.03	0.03	ppb	38.91	3600	
118	Sn	115	1	0.00	0.00	ppb	90.94	3600	
121	Sb	115	1	0.02	0.02	ppb	13.19	3600	
137	Ba	115	1	94.65	94.65	ppb	0.47	3600	
205	Tl	165	1	0.01	0.01	ppb	7.21	3600	
208	Pb	165	1	0.05	0.05	ppb	6.09	3600	
232	Th	165	1	0.01	0.01	ppb	20.58	1000	
238	U	165	1	4.95	4.95	ppb	0.59	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	403554	1.26	511883	78.8	30 - 120	
45	Sc	1	2245016	0.68	2688297	83.5	30 - 120	
72	Ge	1	1369668	0.57	1668870	82.1	30 - 120	
115	In	1	3812499	0.30	4545768	83.9	30 - 120	
165	Ho	1	7727248	0.27	8917520	86.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\191SMPL.D\191SMPL.D#
Date Acquired: Nov 9 2011 04:06 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-19-a
Misc Info:
Vial Number: 4305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	103.84	3600	
51	V	72	1	0.53	0.53	ppb	6.09	3600	
52	Cr	72	1	0.15	0.15	ppb	14.67	3600	
55	Mn	72	1	249.60	249.60	ppb	0.76	18000	
59	Co	72	1	0.63	0.63	ppb	3.88	3600	
60	Ni	72	1	0.73	0.73	ppb	4.94	3600	
63	Cu	72	1	0.12	0.12	ppb	6.57	3600	
66	Zn	72	1	2.01	2.01	ppb	1.89	3600	
75	As	72	1	8.79	8.79	ppb	2.51	3600	
78	Se	72	1	0.14	0.14	ppb	108.59	3600	
95	Mo	72	1	4.67	4.67	ppb	1.54	3600	
107	Ag	115	1	0.00	0.00	ppb	26.42	3600	
111	Cd	115	1	0.01	0.01	ppb	33.93	3600	
118	Sn	115	1	0.01	0.01	ppb	67.19	3600	
121	Sb	115	1	0.38	0.38	ppb	3.24	3600	
137	Ba	115	1	237.40	237.40	ppb	2.75	3600	
205	Tl	165	1	0.01	0.01	ppb	11.17	3600	
208	Pb	165	1	0.10	0.10	ppb	1.63	3600	
232	Th	165	1	0.05	0.05	ppb	8.92	1000	
238	U	165	1	8.41	8.41	ppb	1.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	396154	0.45	511883	77.4	30 - 120	
45	Sc	1	2236878	1.18	2688297	83.2	30 - 120	
72	Ge	1	1354643	0.51	1668870	81.2	30 - 120	
115	In	1	3731643	2.02	4545768	82.1	30 - 120	
165	Ho	1	7691388	1.01	8917520	86.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\192_CCV.D\192_CCV.D#
Date Acquired:	Nov 9 2011 04:09 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.92	ppb	2.72	50	101.8	90 - 110	
51	V	72	1	50.42	ppb	1.13	50	100.8	90 - 110	
52	Cr	72	1	50.13	ppb	0.60	50	100.3	90 - 110	
55	Mn	72	1	50.61	ppb	1.02	50	101.2	90 - 110	
59	Co	72	1	51.40	ppb	0.85	50	102.8	90 - 110	
60	Ni	72	1	49.61	ppb	0.59	50	99.2	90 - 110	
63	Cu	72	1	49.10	ppb	0.26	50	98.2	90 - 110	
66	Zn	72	1	49.59	ppb	0.37	50	99.2	90 - 110	
75	As	72	1	50.10	ppb	0.98	50	100.2	90 - 110	
78	Se	72	1	50.29	ppb	0.63	50	100.6	90 - 110	
95	Mo	72	1	49.92	ppb	1.04	50	99.8	90 - 110	
107	Ag	115	1	49.70	ppb	2.57	50	99.4	90 - 110	
111	Cd	115	1	48.81	ppb	1.67	50	97.6	90 - 110	
118	Sn	115	1	47.30	ppb	1.62	50	94.6	90 - 110	
121	Sb	115	1	48.28	ppb	2.15	50	96.6	90 - 110	
137	Ba	115	1	49.97	ppb	3.03	50	99.9	90 - 110	
205	Tl	165	1	52.03	ppb	0.52	50	104.1	90 - 110	
208	Pb	165	1	50.22	ppb	2.15	50	100.4	90 - 110	
232	Th	165	1	52.05	ppb	1.72	50	104.1	90 - 110	
238	U	165	1	51.82	ppb	2.30	50	103.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	442214	0.79	511883	86.4	30 - 120	
45	Sc	1	2385683	1.58	2688297	88.7	30 - 120	
72	Ge	1	1488038	0.60	1668870	89.2	30 - 120	
115	In	1	4240661	2.62	4545768	93.3	30 - 120	
165	Ho	1	8309642	1.41	8917520	93.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\193_CCB.D\193_CCB.D#
Date Acquired: Nov 9 2011 04:11 am
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.002	ppb	2.33	1.00	
51	V	72	1	0.021	ppb	28.08	1.00	
52	Cr	72	1	0.002	ppb	720.95	1.00	
55	Mn	72	1	0.025	ppb	23.78	1.00	
59	Co	72	1	0.008	ppb	75.38	1.00	
60	Ni	72	1	-0.024	ppb	50.23	1.00	
63	Cu	72	1	0.011	ppb	17.39	1.00	
66	Zn	72	1	-0.033	ppb	6.33	1.00	
75	As	72	1	-0.001	ppb	707.65	1.00	
78	Se	72	1	0.295	ppb	93.52	1.00	
95	Mo	72	1	0.007	ppb	48.14	1.00	
107	Ag	115	1	0.011	ppb	30.69	1.00	
111	Cd	115	1	0.003	ppb	130.53	1.00	
118	Sn	115	1	-0.005	ppb	237.72	1.00	
121	Sb	115	1	0.015	ppb	8.44	1.00	
137	Ba	115	1	0.033	ppb	34.07	1.00	
205	Tl	165	1	0.021	ppb	9.59	1.00	
208	Pb	165	1	0.008	ppb	23.95	1.00	
232	Th	165	1	0.055	ppb	8.53	1.00	
238	U	165	1	0.012	ppb	7.26	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	438499	0.33	511883	85.7	30 - 120	
45	Sc	1	2391076	1.92	2688297	88.9	30 - 120	
72	Ge	1	1503556	0.14	1668870	90.1	30 - 120	
115	In	1	4177748	1.79	4545768	91.9	30 - 120	
165	Ho	1	8189159	0.32	8917520	91.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

95431 – 6020 water
95436 – soil

TestAmerica Denver TestAmerica

ICP/MS Technical Data Review Checklist

Lab Project ID Number(s): see attached cover sheet Check Method/SOP Used: 6020/DV-MT-0018 200.8/DV-MT-0002

Review Items	--- Level 1 --- Yes	No	N/A	Level 2	Comments & Samples Affected
Tune					
1. Tune solution analyzed min. of 4 times for 6020 or 5 times for 200.8?	✓			✓	
2. Tune RSD <5%?	✓			✓	
2. Resolution ≤ 0.9 AMU full width at 10% peak height? **NOTE**: This also satisfies 200.8, 1.0 AMU at 5% peak height	✓			✓	
Initial Calibration					
1. Done with a minimum of 3 integrations of a high standard and blank?	✓			✓	
2. ICV/CCV run at beginning of run, 10% frequency, and end of run? Results with 10% of expected value?	✓			✓	
3. ICB/CCB run at beginning of run, 10% frequency, and end of run? Results +/- RL	✓			✓	
4. ICSA/AB analyzed at beginning of run and every 12 hours and results 80- 120% of TV?	✓			✓	
5. RL Std analyzed at beginning of run and results +/- 50% of TV(for AFCEE 4.0, DoD V3 +/- 20% of true value)?	✓			✓	
Client Samples & QC Sample Results					
1. Were all samples within linear range, ≤ 90% of LDR for 200.8?	✓			✓	
2. Dilutions due to target elements?____ Dilutions for other reasons? ✓	✓			✓	
3. All reported results bracketed by in control QC?	✓			✓	
4. All 6020 internal standards for all analyses 30-120% of intensities in blank or all 200.8 internal standards 60-125%?	✓			✓	
5. Was a 5X serial dilution analyzed for 6020 and, if so, are results ± 10% of original result, if original ≥ 100x MDL?	✓			✓	
6. LCS included in batch and within QC limits?	✓			✓	
7. Method blank included and <1/2RL?	✓			✓	
8. MS and MSD included in batch?	✓			✓	
9. PDS analyzed and recovery 75-125%?	✓			✓	
10. Manual calculations documented properly and checked?	✓			✓	
11. Are non-conformances documented on an NCM?	✓			✓	
12. Is the appropriate raw data included?	✓			✓	
13. Are all results manually entered into LIMS verified? Are all electronic data files archived to the appropriate network locations?	✓			✓	
14. Were special client requirements met?	✓			✓	

1st Level Reviewer: ________ Date: 11/9/11

2nd Level Reviewer: ________ Date: 11/9/11

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Rev. 2, 6/12/08

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Batch Number: 92642   Batch Start Date: 11/05/11 05:00   Batch Analyst: Ivey, Crystal L

Batch Method: 3050B   Batch End Date: 11/05/11 10:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00054	MS CALSTD-2 00053		
MB 280-92642/1		3050B, 6020A		1.20 g	100 mL				
LCS 280-92642/2		3050B, 6020A		1.14 g	100 mL	1 mL	1 mL		
280-21902-A-1	TP05 SD018	3050B, 6020A	T	1.17 g	100 mL				
280-21902-A-1 MS	TP05 SD018	3050B, 6020A	T	1.08 g	100 mL	1 mL	1 mL		
280-21902-A-1 MSD	TP05 SD018	3050B, 6020A	T	1.17 g	100 mL	1 mL	1 mL		
280-21902-A-2	TP06 SD019	3050B, 6020A	T	1.17 g	100 mL				
280-21902-A-3	TP07 SD020	3050B, 6020A	T	1.15 g	100 mL				
280-21902-A-4	TP08 SD021	3050B, 6020A	T	1.05 g	100 mL				
280-21902-A-5	TP09 SD022	3050B, 6020A	T	1.03 g	100 mL				
280-21902-A-6	TP10 SD023	3050B, 6020A	T	1.05 g	100 mL				
280-21902-A-7	TP11 SD024	3050B, 6020A	T	1.20 g	100 mL				
280-21902-A-8	TP12 SD025	3050B, 6020A	T	1.07 g	100 mL				
280-21902-A-9	TP13 SD026	3050B, 6020A	T	1.08 g	100 mL				
280-21902-A-10	TP14 SD027	3050B, 6020A	T	1.14 g	100 mL				
280-21902-A-11	TP14 SD028	3050B, 6020A	T	1.14 g	100 mL				
280-21902-A-12	TP15 SD029	3050B, 6020A	T	1.03 g	100 mL				
280-21902-A-13	TP16 SD030	3050B, 6020A	T	1.18 g	100 mL				
280-21902-A-14	TP17 SD031	3050B, 6020A	T	1.01 g	100 mL				
280-21902-A-15	TP18 SD032	3050B, 6020A	T	1.07 g	100 mL				
280-21902-A-16	TP19 SD033	3050B, 6020A	T	1.12 g	100 mL				
280-21902-A-17	TP20 SD034	3050B, 6020A	T	1.05 g	100 mL				
280-21902-A-18	TP21 SD035	3050B, 6020A	T	1.13 g	100 mL				
280-21902-A-19	TP21 SD036	3050B, 6020A	T	1.12 g	100 mL				
280-21902-A-20	TP01 SB128	3050B, 6020A	T	1.15 g	100 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Batch Number: 92642   Batch Start Date: 11/05/11 05:00   Batch Analyst: Ivey, Crystal L

Batch Method: 3050B   Batch End Date: 11/05/11 10:00

Batch Notes	
Analyst	CLI
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	09
Hot Block ID number	01
Oven, Bath or Block Temperature 1	94 Degrees C
Pipette ID	MET-007
Temperature	94/B-6 Degrees C
ID number of the thermometer	908001800
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	94 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Batch Number: 92643 Batch Start Date: 11/05/11 05:00 Batch Analyst: Ivey, Crystal L

Batch Method: 3050B Batch End Date: 11/05/11 10:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00054	MS CALSTD-2 00053		
MB 280-92643/1		3050B, 6020A		1.13 g	100 mL				
LCS 280-92643/2		3050B, 6020A		1.13 g	100 mL	1 mL	1 mL		
280-21902-A-21	TP01 SB129	3050B, 6020A	T	1.09 g	100 mL				
280-21902-A-22	TP01 SB130	3050B, 6020A	T	1.17 g	100 mL				
280-21902-A-23	TP01 SB131	3050B, 6020A	T	1.19 g	100 mL				
280-21902-A-35	CP27 SB052	3050B, 6020A	T	1.17 g	100 mL				
280-21902-A-36	CP27 SB053	3050B, 6020A	T	1.10 g	100 mL				
280-21902-A-37	CP22 SB040	3050B, 6020A	T	1.07 g	100 mL				
280-21902-A-38	CP22 SB041	3050B, 6020A	T	1.16 g	100 mL				
280-21902-A-39	CP25 SB048	3050B, 6020A	T	1.17 g	100 mL				
280-21902-A-40	CP25 SB049	3050B, 6020A	T	1.14 g	100 mL				
280-21902-A-41	CP24 SB046	3050B, 6020A	T	1.17 g	100 mL				
280-21902-A-42	CP24 SB047	3050B, 6020A	T	1.09 g	100 mL				
280-21902-A-43	CP26 SB050	3050B, 6020A	T	1.06 g	100 mL				
280-21902-A-44	CP26 SB051	3050B, 6020A	T	1.17 g	100 mL				
280-21902-A-45	CP21 SB038	3050B, 6020A	T	1.02 g	100 mL				
280-21902-A-46	CP21 SB039	3050B, 6020A	T	1.03 g	100 mL				
280-21902-A-47	CP20 SB037	3050B, 6020A	T	1.01 g	100 mL				
280-21902-A-48	CP20 SB036	3050B, 6020A	T	1.14 g	100 mL				
280-21902-A-52	CP23 SB043	3050B, 6020A	T	1.14 g	100 mL				
280-21902-A-52 MS	CP23 SB043	3050B, 6020A	T	1.07 g	100 mL	1 mL	1 mL		
280-21902-A-52 MSD	CP23 SB043	3050B, 6020A	T	1.10 g	100 mL	1 mL	1 mL		

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Batch Number: 92643   Batch Start Date: 11/05/11 05:00   Batch Analyst: Ivey, Crystal L

Batch Method: 3050B   Batch End Date: 11/05/11 10:00

Batch Notes	
Analyst	CLI
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	09
Hot Block ID number	02
Oven, Bath or Block Temperature 1	93 Degrees C
Pipette ID	MET-007
Temperature	93/C-5 Degrees C
ID number of the thermometer	908001558
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	93 Celsius

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Batch Number: 92644 Batch Start Date: 11/06/11 10:00 Batch Analyst: Mooney, Joseph C

Batch Method: 3050B Batch End Date: 11/06/11 15:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00054	MS CALSTD-2 00053		
MB 280-92644/1		3050B, 6020A		1.20 g	100 mL				
LCS 280-92644/2		3050B, 6020A		1.09 g	100 mL	1 mL	1 mL		
280-21902-A-50	CP23 SB042	3050B, 6020A	T	1.05 g	100 mL				
280-21902-A-51	CP23 SB044	3050B, 6020A	T	1.13 g	100 mL				
280-21902-A-59	CP13 SB019	3050B, 6020A	T	1.01 g	100 mL				
280-21902-A-60	CP13 SB021	3050B, 6020A	T	1.01 g	100 mL				
280-21902-A-61	CP13 SB020	3050B, 6020A	T	1.07 g	100 mL				
280-21902-A-61 MS	CP13 SB020	3050B, 6020A	T	1.05 g	100 mL	1 mL	1 mL		
280-21902-A-61 MSD	CP13 SB020	3050B, 6020A	T	1.05 g	100 mL	1 mL	1 mL		
280-21902-A-63	CP14 SB023	3050B, 6020A	T	1.06 g	100 mL				
280-21902-A-64	CP14 SB024	3050B, 6020A	T	1.04 g	100 mL				
280-21902-A-65	CP18 SB031	3050B, 6020A	T	1.05 g	100 mL				
280-21902-A-66	CP18 SB032	3050B, 6020A	T	1.17 g	100 mL				
280-21902-A-67	CP18 SB033	3050B, 6020A	T	1.10 g	100 mL				
280-21902-A-68	CP15 SB025	3050B, 6020A	T	1.08 g	100 mL				
280-21902-A-69	CP15 SB026	3050B, 6020A	T	1.10 g	100 mL				
280-21902-A-70	CP16 SB027	3050B, 6020A	T	1.04 g	100 mL				
280-21902-A-71	CP16 SB028	3050B, 6020A	T	1.05 g	100 mL				
280-21902-A-72	CP19 SB034	3050B, 6020A	T	1.04 g	100 mL				
280-21902-A-73	CP19 SB035	3050B, 6020A	T	1.14 g	100 mL				
280-21902-A-74	CP17 SB029	3050B, 6020A	T	1.18 g	100 mL				
280-21902-A-75	CP17 SB030	3050B, 6020A	T	1.18 g	100 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Batch Number: 92644   Batch Start Date: 11/06/11 10:00   Batch Analyst: Mooney, Joseph C

Batch Method: 3050B   Batch End Date: 11/06/11 15:00

Batch Notes	
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	09
Hot Block ID number	01 A-6
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	MET-007
Temperature	95 Degrees C
ID number of the thermometer	908001800
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 Degrees C

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Batch Number: 95210   Batch Start Date: 11/08/11 09:00   Batch Analyst: Ivey, Crystal L

Batch Method: 3050B   Batch End Date: 11/08/11 14:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00054	MS CALSTD-2 00053		
MB 280-95210/1		3050B, 6020A		10.01 g	500 mL				
LCS 280-95210/2		3050B, 6020A		10.34 g	500 mL	5 mL	5 mL		
LCSD 280-95210/3		3050B, 6020A		10.08 g	500 mL	5 mL	5 mL		
280-21902-A-53-B	CP03 IS009	3050B, 6020A	T	10.67 g	500 mL				
280-21902-A-53-B MS	CP03 IS009	3050B, 6020A	T	10.37 g	500 mL	5 mL	5 mL		
280-21902-A-53-B MSD	CP03 IS009	3050B, 6020A	T	10.29 g	500 mL	5 mL	5 mL		
280-21902-A-54-B	CP03 IS008	3050B, 6020A	T	10.09 g	500 mL				
280-21902-A-55-B	CP03 IS007	3050B, 6020A	T	10.25 g	500 mL				
280-21902-A-56-B	CP02 IS004	3050B, 6020A	T	10.38 g	500 mL				
280-21902-A-57-B	CP02 IS005	3050B, 6020A	T	10.22 g	500 mL				
280-21902-A-58-B	CP02 IS006	3050B, 6020A	T	10.26 g	500 mL				

Batch Notes	
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	06
Hot Block ID number	MI2
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	MET-007
Temperature	95 Degrees C
ID number of the thermometer	291115
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 Degrees C

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Batch Number: 95210 Batch Start Date: 11/08/11 09:00 Batch Analyst: Ivey, Crystal L

Batch Method: 3050B Batch End Date: 11/08/11 14:00

Basis	Basis Description
T	Total/NA

6020A

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job Number: 280-21902-1

SDG No.:

Project: Martha's Vineyard

Client Sample ID	Lab Sample ID
TP05 SD018	280-21902-1
TP06 SD019	280-21902-2
TP07 SD020	280-21902-3
TP08 SD021	280-21902-4
TP09 SD022	280-21902-5
TP10 SD023	280-21902-6
TP11 SD024	280-21902-7
TP12 SD025	280-21902-8
TP13 SD026	280-21902-9
TP14 SD027	280-21902-10
TP14 SD028	280-21902-11
TP15 SD029	280-21902-12
TP16 SD030	280-21902-13
TP17 SD031	280-21902-14
TP18 SD032	280-21902-15
TP19 SD033	280-21902-16
TP20 SD034	280-21902-17
TP21 SD035	280-21902-18
TP21 SD036	280-21902-19
TP01 SB128	280-21902-20
TP01 SB129	280-21902-21
TP01 SB130	280-21902-22
TP01 SB131	280-21902-23
CP27 SB052	280-21902-35
CP27 SB053	280-21902-36
CP22 SB040	280-21902-37
CP22 SB041	280-21902-38
CP25 SB048	280-21902-39
CP25 SB049	280-21902-40
CP24 SB046	280-21902-41
CP24 SB047	280-21902-42
CP26 SB050	280-21902-43
CP26 SB051	280-21902-44
CP21 SB038	280-21902-45
CP21 SB039	280-21902-46
CP20 SB037	280-21902-47
CP20 SB036	280-21902-48
CP23 SB042	280-21902-50
CP23 SB044	280-21902-51
CP23 SB043	280-21902-52
CP13 SB019	280-21902-59
CP13 SB021	280-21902-60
CP13 SB020	280-21902-61
CP14 SB023	280-21902-63
CP14 SB024	280-21902-64

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job Number: 280-21902-1

SDG No.:

Project: Martha's Vineyard

Client Sample ID	Lab Sample ID
CP18 SB031	280-21902-65
CP18 SB032	280-21902-66
CP18 SB033	280-21902-67
CP15 SB025	280-21902-68
CP15 SB026	280-21902-69
CP16 SB027	280-21902-70
CP16 SB028	280-21902-71
CP19 SB034	280-21902-72
CP19 SB035	280-21902-73
CP17 SB029	280-21902-74
CP17 SB030	280-21902-75

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job Number: 280-21902-1

SDG Number:

Matrix: Solid   Instrument ID: NOEQUIP

Method: Moisture   LOQ Date: 11/01/2009 00:00

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

FORM IX - IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 10/24/2011 09:15 End Date: 10/24/2011 13:04

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			09:15																				
ZZZZZZ			09:15																				
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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 10/24/2011 09:15 End Date: 10/24/2011 13:04

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			09:15																				
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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 10/24/2011 09:15   End Date: 10/24/2011 13:04

Lab Sample ID	D/F	Type	Time	Analytes: %Sol	Moist
ZZZZZZ			09:15		
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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 10/24/2011 09:15 End Date: 10/24/2011 13:04

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			09:24																				
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ZZZZZZ			09:24																				
280-21902-19	1	T	09:24	X	X																		
280-21902-21	1	T	09:24	X	X																		
280-21902-22	1	T	09:24	X	X																		
280-21902-23	1	T	09:24	X	X																		
280-21902-36	1	T	09:24	X	X																		
280-21902-38	1	T	09:24	X	X																		
280-21902-35	1	T	09:24	X	X																		
280-21902-37	1	T	09:24	X	X																		
280-21902-44	1	T	09:24	X	X																		
280-21902-44 DU	1	T	09:24	X	X																		
280-21902-43	1	T	09:24	X	X																		
280-21902-39	1	T	09:24	X	X																		
280-21902-40	1	T	09:24	X	X																		
280-21902-46	1	T	09:24	X	X																		
280-21902-42	1	T	09:24	X	X																		
280-21902-45	1	T	09:24	X	X																		
280-21902-41	1	T	09:24	X	X																		
280-21902-48	1	T	09:24	X	X																		
280-21902-50	1	T	09:24	X	X																		
280-21902-51	1	T	09:24	X	X																		
ZZZZZZ			09:24																				
280-21902-47	1	T	09:24	X	X																		
280-21902-65	1	T	09:24	X	X																		
280-21902-61	1	T	09:24	X	X																		

ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 10/24/2011 09:15   End Date: 10/24/2011 13:04

Lab Sample ID	D/F	Type	Time	Analytes: %Sol	Analytes: Moist
280-21902-63	1	T	09:24	X	X
280-21902-52	1	T	09:24	X	X
280-21902-60	1	T	09:24	X	X
280-21902-69	1	T	09:24	X	X
280-21902-59	1	T	09:24	X	X
280-21902-64	1	T	09:24	X	X
280-21902-64 DU	1	T	09:24	X	X
ZZZZZZ			13:04		
280-21902-68	1	T	13:04	X	X
280-21902-70	1	T	13:04	X	X
280-21902-71	1	T	13:04	X	X
280-21902-73	1	T	13:04	X	X
280-21902-75	1	T	13:04	X	X
280-21902-72	1	T	13:04	X	X
280-21902-74	1	T	13:04	X	X
280-21902-67	1	T	13:04	X	X
280-21902-66	1	T	13:04	X	X
ZZZZZZ			13:04		
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ZZZZZZ			13:04		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 10/25/2011 07:37 End Date: 10/25/2011 13:44

Lab Sample ID	D/F	Type	Time	Analytes: %Sol	Analytes: Moist
ZZZZZZ			07:37		
ZZZZZZ			07:37		
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 10/25/2011 07:37 End Date: 10/25/2011 13:44

Lab Sample ID	D/F	Type	Time	Analytes: %Sol	Moist
ZZZZZZ			07:37		
ZZZZZZ			07:37		
ZZZZZZ			07:37		
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ZZZZZZ			07:37		
ZZZZZZ			07:37		
280-21902-18	1	T	07:37	X	X
280-21902-20	1	T	07:37	X	X
280-21902-17	1	T	07:37	X	X
280-21902-17 DU	1	T	07:37	X	X
280-21902-14	1	T	07:37	X	X
280-21902-15	1	T	07:37	X	X
280-21902-16	1	T	07:37	X	X
280-21902-12	1	T	07:37	X	X
280-21902-13	1	T	07:37	X	X
280-21902-9	1	T	07:37	X	X
280-21902-10	1	T	07:37	X	X
280-21902-8	1	T	07:37	X	X
280-21902-7	1	T	07:37	X	X
280-21902-3	1	T	07:37	X	X
280-21902-5	1	T	07:37	X	X
280-21902-2	1	T	07:37	X	X
280-21902-1	1	T	07:37	X	X
280-21902-11	1	T	07:37	X	X
280-21902-6	1	T	07:37	X	X
280-21902-4	1	T	07:37	X	X
ZZZZZZ			07:37		
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-21902-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 10/25/2011 07:37   End Date: 10/25/2011 13:44

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 10/25/2011 07:37 End Date: 10/25/2011 13:44

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			13:44																				
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Prep Types

T = Total/NA

Wet Chemistry Data Review Checklist For Gravimetric Methods

Test Name/Method #: Moisture **Analysis Date:** 10/24/11

SOP #: DV-WC-0023 **Analyst:** PB **Instrument:** H31422

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
21807, 21878, 21953	S	—	92752	Moisture	
21853, 21906, 21935,					
21679, 21849, 21896					
21895, 21858, 21902					
21854 Hanford			92821		

A. Balance, Oven, and DI Water QC Checks	Yes	No	N/A	2nd Level
1. Was the balance calibration verified before and after processing samples and noted in the "Balance Calibration Log" for the date(s) the samples were processed?	✓			✓
2. Was the oven temperature within method requirements and recorded in the "Oven Temperature" logbook for the date(s) the samples were processed?	✓			✓
3. Was the daily conductivity check of the deionized water recorded in the "Conductivity Logbook"?			✓	✓
B. Method Requirements				
1. If sample is visibly oily, was this noted on the benchsheet?	✓			✓
2. Was final residue weight within minimum/maximum requirements?	✓			✓
3. Were the initial and final drying dates and times recorded on the benchsheet and were all samples dried for at least one hour?	✓			✓
C. Sample Results				
1. TDS/Conductivity ratio or historical data checked?			✓	✓
2. For % Moisture, was the Final Dried Weight < the Initial Pan Weight or is the result greater than 100%?		✓		✓
3. Were sample analyses done within holding time?	✓			✓
4. Were special client requirements met?	✓			✓
5. Were data that were manually transcribed from instrument printouts into TALS verified 100% including significant figures and units?			✓	✓
6. Do the prep and analysis dates in TALS reflect the actual dates? Lots/Dates report checked?	✓			✓
7. STD/True Value information is updated and included?			✓	✓
8. Are raw data copies prepared, scanned, and uploaded?	✓			✓
D. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10 X RL?			✓	✓
2. Method blank < ½ RL or NCM provided?			✓	✓
3. LCS/LCSD run for batch and within QC limits?			✓	✓
4. DUP run for batch and RPD < 20% for samples >5 X RL?	✓			✓

Analyst: Paul Berry **Date:** 10/25/11

Comments:

2nd Level Reviewer : [signature] **Date:** 10/25/11

Comments:

Revision 2.0
5/18/10
QA\Edit\FORMS\Data Review\Gravimetric Review Checklist

Wet Chemistry Data Review Checklist For Gravimetric Methods

Test Name/Method #: Moisture **Analysis Date:** 10/25/11

SOP #: DV-WC-0023 **Analyst:** PB **Instrument:** H31422

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
21938, 21940, 21950	S	—	92905	Moisture	
21939, 21902, 60282					
21827, 21958, 21943					

A. Balance, Oven, and DI Water QC Checks	Yes	No	N/A	2nd Level
1. Was the balance calibration verified before and after processing samples and noted in the "Balance Calibration Log" for the date(s) the samples were processed?	✓			✓
2. Was the oven temperature within method requirements and recorded in the "Oven Temperature" logbook for the date(s) the samples were processed?	✓			✓
3. Was the daily conductivity check of the deionized water recorded in the "Conductivity Logbook"?			✓	✓
B. Method Requirements				
1. If sample is visibly oily, was this noted on the benchsheet?	✓			✓
2. Was final residue weight within minimum/maximum requirements?	✓			✓
3. Were the initial and final drying dates and times recorded on the benchsheet and were all samples dried for at least one hour?	✓			✓
C. Sample Results				
1. TDS/Conductivity ratio or historical data checked?			✓	✓
2. For % Moisture, was the Final Dried Weight < the Initial Pan Weight or is the result greater than 100%?		✓		✓
3. Were sample analyses done within holding time?	✓			✓
4. Were special client requirements met?	✓			✓
5. Were data that were manually transcribed from instrument printouts into TALS verified 100% including significant figures and units?			✓	✓
6. Do the prep and analysis dates in TALS reflect the actual dates? Lots/Dates report checked?	✓			✓
7. STD/True Value information is updated and included?			✓	✓
8. Are raw data copies prepared, scanned, and uploaded?	✓			✓
D. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10 X RL?			✓	✓
2. Method blank < ½ RL or NCM provided?			✓	✓
3. LCS/LCSD run for batch and within QC limits?			✓	✓
4. DUP run for batch and RPD < 20% for samples >5 X RL?	✓			✓

Analyst: Paul Berry **Date:** 10/26/11

Comments:

2nd Level Reviewer : [signature] **Date:** 10/26/11

Comments:

Revision 2.0
5/18/10
QA\Edit\FORMS\Data Review\Gravimetric Review Checklist

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver　　Job No.: 280-21902-1

SDG No.:

Batch Number: 92752　　Batch Start Date: 10/24/11 09:15　　Batch Analyst: Berry III, Paul B

Batch Method: Moisture　　Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
280-21902-A-19	TP21 SD036	Moisture	T	145	1.33 g	17.20 g	13.68 g		
280-21902-B-21	TP01 SB129	Moisture	T	146	1.33 g	17.54 g	14.59 g		
280-21902-B-22	TP01 SB130	Moisture	T	147	1.32 g	17.52 g	15.43 g		
280-21902-A-23	TP01 SB131	Moisture	T	148	1.32 g	18.01 g	15.99 g		
280-21902-B-36	CP27 SB053	Moisture	T	149	1.33 g	18.00 g	15.60 g		
280-21902-B-38	CP22 SB041	Moisture	T	150	1.32 g	17.89 g	15.57 g		
280-21902-A-35	CP27 SB052	Moisture	T	151	1.32 g	17.35 g	14.78 g		
280-21902-A-37	CP22 SB040	Moisture	T	152	1.32 g	17.05 g	14.45 g		
280-21902-B-44	CP26 SB051	Moisture	T	153	1.32 g	17.16 g	15.12 g		
280-21902-B-44 DU	CP26 SB051	Moisture	T	154	1.31 g	17.86 g	15.84 g		
280-21902-A-43	CP26 SB050	Moisture	T	155	1.31 g	17.85 g	15.49 g		
280-21902-A-39	CP25 SB048	Moisture	T	156	1.30 g	17.82 g	16.06 g		
280-21902-A-40	CP25 SB049	Moisture	T	157	1.31 g	17.44 g	15.72 g		
280-21902-A-46	CP21 SB039	Moisture	T	158	1.31 g	17.39 g	15.37 g		
280-21902-B-42	CP24 SB047	Moisture	T	159	1.32 g	17.62 g	15.57 g		
280-21902-A-45	CP21 SB038	Moisture	T	160	1.31 g	17.30 g	14.89 g		
280-21902-B-41	CP24 SB046	Moisture	T	161	1.32 g	17.47 g	15.44 g		
280-21902-A-48	CP20 SB036	Moisture	T	162	1.31 g	17.16 g	15.41 g		
280-21902-A-50	CP23 SB042	Moisture	T	163	1.33 g	17.16 g	14.66 g		
280-21902-B-51	CP23 SB044	Moisture	T	164	1.31 g	17.63 g	15.27 g		
280-21902-B-47	CP20 SB037	Moisture	T	166	1.28 g	17.69 g	16.16 g		
280-21902-B-65	CP18 SB031	Moisture	T	167	1.26 g	17.03 g	15.11 g		
280-21902-A-61	CP13 SB020	Moisture	T	168	1.28 g	17.28 g	15.47 g		
280-21902-A-63	CP14 SB023	Moisture	T	169	1.27 g	17.47 g	15.30 g		
280-21902-A-52	CP23 SB043	Moisture	T	170	1.26 g	17.37 g	15.49 g		
280-21902-B-60	CP13 SB021	Moisture	T	171	1.26 g	17.45 g	15.21 g		
280-21902-B-69	CP15 SB026	Moisture	T	172	1.27 g	17.70 g	15.57 g		
280-21902-A-59	CP13 SB019	Moisture	T	173	1.29 g	17.30 g	15.01 g		
280-21902-B-64	CP14 SB024	Moisture	T	174	1.27 g	17.43 g	15.83 g		
280-21902-B-64 DU	CP14 SB024	Moisture	T	175	1.28 g	17.63 g	16.18 g		
280-21902-B-68	CP15 SB025	Moisture	T	177	1.30 g	17.37 g	15.54 g		

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Batch Number: 92752 Batch Start Date: 10/24/11 09:15 Batch Analyst: Berry III, Paul B

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
280-21902-A-70	CP16 SB027	Moisture	T	178	1.30 g	17.14 g	14.30 g		
280-21902-A-71	CP16 SB028	Moisture	T	179	1.30 g	18.16 g	15.52 g		
280-21902-A-73	CP19 SB035	Moisture	T	180	1.31 g	17.60 g	15.24 g		
280-21902-B-75	CP17 SB030	Moisture	T	181	1.31 g	17.13 g	14.90 g		
280-21902-B-72	CP19 SB034	Moisture	T	182	1.31 g	18.23 g	14.73 g		
280-21902-A-74	CP17 SB029	Moisture	T	183	1.30 g	17.00 g	14.67 g		
280-21902-B-67	CP18 SB033	Moisture	T	184	1.30 g	17.41 g	15.13 g		
280-21902-A-66	CP18 SB032	Moisture	T	185	1.29 g	17.42 g	15.15 g		

Batch Notes	
Balance ID	H31422 No Unit
Date samples were placed in the oven	10/24/11
Oven Temp when samples are put in oven	103 Degrees C
Time samples were place in the oven	1445
Date samples were removed from oven	10/25/11
Oven Temp when samples removed from oven	103 Degrees C
Time Samples were removed from oven	0645
Oven ID	D
ID number of the thermometer	Moist ove
Uncorrected In Temperature	103 Celsius
Uncorrected Out Temperature	103 Celsius

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-21902-1

SDG No.:

Batch Number: 92905 Batch Start Date: 10/25/11 07:37 Batch Analyst: Berry III, Paul B

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
280-21902-B-18	TP21 SD035	Moisture	T	56	1.31 g	18.08 g	14.73 g		
280-21902-A-20	TP01 SB128	Moisture	T	57	1.29 g	17.38 g	14.39 g		
280-21902-A-17	TP20 SD034	Moisture	T	58	1.31 g	17.32 g	13.89 g		
280-21902-A-17 DU	TP20 SD034	Moisture	T	59	1.30 g	17.77 g	14.49 g		
280-21902-B-14	TP17 SD031	Moisture	T	60	1.30 g	16.99 g	13.26 g		
280-21902-A-15	TP18 SD032	Moisture	T	61	1.30 g	18.10 g	12.55 g		
280-21902-B-16	TP19 SD033	Moisture	T	62	1.29 g	17.60 g	11.05 g		
280-21902-A-12	TP15 SD029	Moisture	T	63	1.30 g	16.98 g	12.69 g		
280-21902-B-13	TP16 SD030	Moisture	T	64	1.29 g	18.02 g	14.51 g		
280-21902-B-9	TP13 SD026	Moisture	T	65	1.29 g	17.34 g	8.24 g		
280-21902-A-10	TP14 SD027	Moisture	T	66	1.29 g	17.23 g	12.81 g		
280-21902-A-8	TP12 SD025	Moisture	T	67	1.29 g	17.55 g	7.75 g		
280-21902-B-7	TP11 SD024	Moisture	T	68	1.28 g	17.65 g	12.62 g		
280-21902-B-3	TP07 SD020	Moisture	T	69	1.29 g	18.08 g	12.78 g		
280-21902-A-5	TP09 SD022	Moisture	T	70	1.28 g	17.23 g	7.88 g		
280-21902-B-2	TP06 SD019	Moisture	T	71	1.29 g	17.04 g	11.54 g		
280-21902-B-1	TP05 SD018	Moisture	T	72	1.30 g	17.26 g	11.17 g		
280-21902-A-11	TP14 SD028	Moisture	T	73	1.29 g	17.31 g	13.28 g		
280-21902-B-6	TP10 SD023	Moisture	T	74	1.29 g	17.88 g	8.07 g		
280-21902-A-4	TP08 SD021	Moisture	T	75	1.30 g	17.23 g	8.32 g		

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver　　Job No.: 280-21902-1

SDG No.:

Batch Number: 92905　　Batch Start Date: 10/25/11 07:37　　Batch Analyst: Berry III, Paul B

Batch Method: Moisture　　Batch End Date:

Batch Notes	
Balance ID	H31422 No Unit
Date samples were placed in the oven	10/25/11
Oven Temp when samples are put in oven	103 Degrees C
Time samples were place in the oven	1445
Date samples were removed from oven	10/26/11
Oven Temp when samples removed from oven	101 Degrees C
Time Samples were removed from oven	0640
Oven ID	D
ID number of the thermometer	Moist ove
Uncorrected In Temperature	103 Celsius
Uncorrected Out Temperature	101 Celsius

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

amec

ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record/Analysis Request

000291

Temperature of samples upon lab arrival: ______

Issuing AMEC Office: Knoxville

AMEC Office Address: 10239 Technology Drive, Knoxville, TN 37932

Project Name: Martha's Vineyard RI

Job No.: 562910000

Project Manager: D. Sharp

Phone No.: (865) 671-6774 / 865 603 9863

Sampler (s): N. Barnes, B. Owens

Laboratory Name/Address: Test America Denver, 4955 Yarrow St, Arvada, CO 80002

Contact: Toni Blankfield

Phone: 303 736 0100

Fax:

Sample ID	Station ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	8321B	6020A									NOTES
						Preservative (HCl, HNO_3, Ice, etc.)	Ice	Ice									
SD018	TP05	1110	10/19/11	reg	sed	0"-6"	1	1									
SD019	TP06	1115					1	1									
SD020	TP07	1120					1	1									
SD021	TP08	1130					1	1									
SD022	TP09	1125					1	1									
SD023	TP10	1135					1	1									
SD024	TP11	1140					1	1									
SD025	TP12	1145					1	1									
SD026	TP13	1150					1	1									
SD027	TP14	0955					1	1									
SD028	TP14	0955					1	1									
SD029	TP15	1030					1	1									
SD030	TP16	1020					1	1									
SD031	TP17	0948					1	1									
						Total # of Containers	14	14									

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: [signature]	Signature: [signature]	Signature:	
Printed Name: N. Barnes	Printed Name: Aaron Bindel	Printed Name:	
Firm: AMEC	Firm: TA	Firm:	
Date/Time: 10/20/11 1100	Date/Time: 10/21/11 0930	Date/Time:	

amec

ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record/Analysis Request

000292

Temperature of samples upon lab arrival: ______

Issuing AMEC Office: Knoxville

AMEC Office Address: 10239 Technology Drive, Knoxville, TN 37932

Project Name: Martha's Vineyard RI

Job No.: 562910000

Project Manager: D. Sharp

Phone No.: (865) 671-6774/865 603 9863

Sampler (s): N. Barnes, B. Owens

Laboratory Name/Address: Test America Denver, 4955 Yarrow ST, Arvada, CO 80002

Contact: Joni Blankfied

Phone: 303 736 0100

Fax:

Sample ID	Station ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	ANALYSIS: 8321B	ANALYSIS: 6020A									NOTES
						Preservative (HCl, HNO_3, Ice, etc.)	Ice	Ice									
SD032	TP18	1045	10/19/11	reg	sed	0"-6"	1	1									
SD033	TP19	1040					1	1									
SD034	TP20	1105					1	1									
SD035	TP21	1055					1	1									
SD036	TP21	1055					1	1									
SB128	TP01	1330		~~soil~~ reg	soil	0"-6"	1	1									
SB129	TP01	1332		reg		6"-6"	1	1									
SB130	TP01	1335		reg		6"-12"	1	1									
SB131	TP01	1345				12"-18"	1	1									
						Total # of Containers	9	9									

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature:	Signature:	Signature:	
Printed Name: N. Barnes	Printed Name: Aaron Binckl	Printed Name:	
Firm: AMEC	Firm: TA	Firm:	
Date/Time: 10/20/11 1100	Date/Time: 10/21/11 0930	Date/Time:	

amec

ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record/Analysis Request

000294

Temperature of samples upon lab arrival: _______

Issuing AMEC Office:	Knoxville		
AMEC Office Address:	10239 Technology Drive Knoxville, TN 37932		
Project Name:	Martha's Vineyard RI	Job No.:	562910000
Project Manager:	D. Sharp	Phone No.:	(865) 671-6774 865-603-5863
Sampler (s):	D. Sharp & Tidewater, Inc.		
Laboratory Name/Address:		Contact:	Joni Blackfield
		Phone:	803-
		Fax:	

Sample ID	Station ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	ANALYSIS: 8321B	6020A									NOTES
						Preservative (HCl, HNO_3, Ice, etc.)											
GW07	MG38	1055	10/17/11	reg	gw	12'-16'	1	1									Filter w/0.45u
GW06	MG37	1403	10/17/11	reg	gw	8-12'	1	1									in lab
GW09	MG40	1530	10/17/11	reg	gw	12-16'	1	1									"
GW10	MG40	1530	10/17/11	reg	gw	12-16'	1	1									"
GW02	CP28	~~1125~~ 1225	10/18/11	reg	gw	28-32'	1	1									filtered in field
GW04	CP31	1334	10/18/11	reg	gw	8-12'	1	1		missing							filtered in field
GW05	CP31	1334	10/18/11	reg	gw	8-12'	X	1									filtered in field
GW11	TP02	1144	10/19/11	reg	gw	8-12'	1	1									filtered in field
GW~~0~~13	TP04	1316	10/19/11	reg	gw	8-12'	1	1									"
GW~~0~~14	TP04	1316	10/19/11	reg	gw	8-12	1	*- missing									"
GW~~0~~12	TP03	1420	10/19/11	reg	gw	16'-20'	1	1									"
						Total # of Containers	10	11									

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: [signature]	Signature: [signature]	Signature:	
Printed Name: Donna Sharp	Printed Name: Dawn Bindel	Printed Name:	
Firm: AMEC	Firm: TA	Firm:	
Date/Time: 10/20/11 1413	Date/Time: 10/21/11 0930	Date/Time:	

amec

ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record/Analysis Request

000375

Temperature of samples upon lab arrival: ______

Issuing AMEC Office: Knoxville

AMEC Office Address: 10239 Technology Drive
Knoxville, TN 37932

Project Name: Martha's Vineyard RI | Job No.: 562910000

Project Manager: Donna Sharp | Phone No.: (865) 671-6774 865-603-9863

Sampler (s): N Barnes, B Owens

Laboratory Name/Address: 4955 Yarrow St. Arvada, CO. 80002 | Contact: Joni Blankfeld | Phone: 303-736-0100 | Fax:

Sample ID	Station ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	8321B	6020T									NOTES
						Preservative (HCl, HNO_3, Ice, etc.)											
SB052	CP27	1355	10/18/11	Reg	Soil	2-12"	1	1									
SB053	CP27	1405				12-18"	1	1									
SB040	CP22	1340				2-12"	1	1									
SB041	CP22	1350				12-18"	1	1									
SB048	CP25	1325				2-12"	1	1									
SB049	CP25	1335				12-18"	1	1									
SB046	CP24	1300				2-12"	1	1									
SB047	CP24	1315				12-18"	1	1									
SB050	CP26	1235				2-12"	1	1									
SB051	CP26	1240				12-18"	1	1									
SB038	CP21	1220				2-12"	1	1									
SB039	CP21	1228				12-18"	1	1									
SB037	CP20	1330				2-12"	1	1									
SB036	CP20	1445				12"-18"	1	1									
						Total # of Containers	14	14									

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: Donna Sharp	Signature: [signature]	Signature:	
Printed Name: Donna Sharp	Printed Name: Aaron Bindel	Printed Name:	
Firm: AMEC	Firm: TA	Firm:	
Date/Time: 10/20/11 1100	Date/Time: 10/21/11 0930	Date/Time:	

amec

ENVIRONMENT & INFRASTRUCTURE 2.9

3.1, 2.5, 4.6, 2.8 IR 15 (10/21)

Chain of Custody Record/Analysis Request

Temperature of samples upon lab arrival: ______

000376

Issuing AMEC Office:	Knoxville
AMEC Office Address:	10239 Technology Drive Knoxville, TN 37932
Project Name:	MARTHA'S VINEYARD RI
Job No.:	562910000
Project Manager:	DONNA SHARP
Phone No.:	(865) 671-6774 865-603-9863
Sampler (s):	N. BARNES, B. OWENS
Laboratory Name/Address:	Test America 4955 Yarrow St. Arvada, CO 80002
Contact:	Jon Batchelder
Phone:	303-736-0100
Fax:	

Sample ID	Station ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	ANALYSIS: 8321B	6020A									NOTES
						Preservative (HCl, HNO_3, Ice, etc.)											* 15007, 15008, 15009 needs 8330B prep. * No grinding for metals analysis for 15007, 15008 15009.
IB043	CP23	1450	10/18/11	REG	SOIL	12-18"	1	1									
IB042	CP23	1440	↓	REG	↓	2-12"	1	1									
IB044	CP23	1440	↓	REG	↓	2-12"	1	1									
IB045	CP23	1450	↓	MS, MSD	↓	12-18"	1	1									
IS009	CP03	1428	↓	REG	↓	0-2"	—										Incremental Sample
IS008	CP03	1345	↓	REG	↓	0-2"	—										INCREMENTAL SAMPLE
IS007	CP03	1245	↓	REG	↓	0-2"	—										INCREMENTAL SAMPLE
						Total # of Containers	4	4	+	3	15 bags						

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: Donna Sharp	Signature: [signature]	Signature:	
Printed Name: Donna Sharp	Printed Name: Aaron Bindel	Printed Name:	
Firm: AMEC	Firm: ~~10/21/11 093~~ TA	Firm:	
Date/Time: 10/20/11 1100	Date/Time: 10/21/11 0930	Date/Time:	

amec

ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record/Analysis Request

000408

Temperature of samples upon lab arrival: ______

Issuing AMEC Office: Knoxville
AMEC Office Address: 10239 Technology Drive
Knoxville, TN 37932

Project Name: Marthas Vineyard RI
Job No.: 5629100000
Project Manager: D. Sharp
Phone No.: (865) 671-6774
Sampler (s): B. Owens N. Barnes

Laboratory Name/Address: Test America Denver
4955 Yarrow ST
Arvada, CO 80002
Contact: Toni Blankfield
Phone: 303-736-0100
Fax:

Sample ~~Sample ID~~ ID	Station ~~Station ID~~ ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	ANALYSIS: 8321B	6020A								
			Preservative (HCl, HNO_3, Ice, etc.)													
IS004	CP02	1337	10/17/11	reg	soil	0"-2"	1	1	one bag							
IS005	CP02	1436				0"-2"	1	1	one bag							
IS006	CP02	1517				0"-2"	1	1	one bag							
SB019	CP13	1246				2"-12"	1	1								
SB021	CP13	1246				2"-12"	1	1								
SB020	CP13	1250				12"-18"	1	1								
SB022	CP13	1250		MS/MSD		12"-18	1	1								
SB023	CP14	1306		reg		2"-12"	1	1								
SB024	CP14	1310				12"-18"	1	1								
SB031	CP18	1330				2"-12"	1	1								
SB032	CP18	1336				12"-18"	1	1								
SB033	CP18	1336				12"-18"	1	1								
SB025	CP15	1355				2"-12"	1	1								
SB026	CP15	1357				12"-18"	1	1								
						Total # of Containers	11	11	plus 3 bags							

NOTES:
use 8330B prep for IS004, IS005 and IS006
Do not grind IS samples for 6020A

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: [signature]	Signature: [signature]	Signature:	
Printed Name: Norm Barnes	Printed Name: Aaron Biele	Printed Name:	
Firm: AMEC	Firm: TA	Firm:	
Date/Time: 10/20/11 1600	Date/Time: 10/21/11 0930	Date/Time:	

amec

ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record/Analysis Request

000405

Temperature of samples upon lab arrival: ______

Issuing AMEC Office: Knoxville

AMEC Office Address: 10239 Technology Drive, Knoxville, TN 37932

Project Name: Marthas Vineyard | Job No.: 5629100000

Project Manager: D. Sharp | Phone No.: (865) 671-6774/8656039863

Sampler (s): B. Owens, N. Barnes

Laboratory Name/Address: TestAmerica Denver, 4955 Yarrow St, Arvada, CO 80002

Contact: Joni Blankfield

Phone: 303-736 0100

Fax:

Sample ID	Station ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	ANALYSIS: 8321B	6020A									NOTES
						Preservative (HCl, HNO_3, Ice, etc.)	Ice	Ice									
SB027	CP16	1420	10/17/11	reg	soil	2"-12"	1	1									
SB028	CP16	1440	10/17/11	reg	soil	12"-18"	1	1									
SB034	CP19	1442				2"-12"	1	1									
SB035	CP19	1444				12"-18"	1	1									
SB029	CP17	1453				2"-12"	1	1									
SB030	CP17	1503				12"-18"	1	1									
						Total # of Containers	6	6									

NOTES: [illegible]

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: [signature]	Signature: [signature]	Signature:	
Printed Name: Norm Barnes	Printed Name: Aaron Birch	Printed Name:	
Firm: AMEC	Firm: TA	Firm:	
Date/Time: 10/20/11 / 1600	Date/Time: 10/21/11 0930	Date/Time:	

Login Sample Receipt Checklist

Client: UXB International, Inc. Job Number: 280-21902-1

Login Number: 21902 **List Source: TestAmerica Denver**
List Number: 1
Creator: Bindel, Aaron M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	DID NOT RCV MTLS SAMPLE GW12, DID RCV MTLS FOR GW14 NOT ON COC
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	LITER AMBERS RECEIVED 60-70% FULL
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-22000-1

Job Description: Martha's Vineyard

For:
UXB International, Inc.
169R Main Street, Second Floor
Flemington, NJ 08822

Attention: Mr. Michael Warminsky

Approved for release.
Joni S Blankfield
Project Manager II
11/14/2011 11:51 AM

Joni S Blankfield
Project Manager II
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11/14/2011

cc: Ms. Donna Sharp

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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CASE NARRATIVE
Client: UXB International, Inc.
Project: Martha's Vineyard
Report Number: 280-22000-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All references to reporting limits and method detection limits in this report are equivalent to the limit of quantitation (LOQ) and detection limit (DL).

RECEIPT

The samples were received on 10/25/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.0°C and 11.6°C.

Samples CP44 SD014 (280-22000-16), CP45 SD015 (280-22000-14), CP45 SD016 (280-22000-15), CP46 SD017 (280-22000-17), MG35 SB123A (280-22000-18), MG35 SB124A (280-22000-19), and MV001 (280-22000-20) were received at the laboratory at an elevated temperature of 11.6°C. It appears ice was placed in the cooler but melted prior to arrival at the laboratory. The samples were placed on hold pending instructions from the client. Per client instructions on October 27, 2011, sample MV001 was extracted for 8321B and placed on HOLD. Per client instructions on November 2, 2011, samples MG35 SB123A (280-22000-18) and MG35 SB124A (280-22000-19) were released from hold and analyzed for metals and explosives. Also, samples CP45 SD015, CP45 SD016, CP44 SD014, CP46 SD017 and MV001 were cancelled; the client indicated the samples would be recollected.

The chain of custody indicates that two jars were submitted for sample MG35 SB123A (280-22000-18), however, only one jar was received at the laboratory; there is sufficient sample volume to perform the requested analyses.

EXPLOSIVES

Samples CP32 SD001 (280-22000-1), CP33 SD002 (280-22000-2), CP34 SD003 (280-22000-3), CP35 SD004 (280-22000-4), CP36 SD005 (280-22000-5), CP37 SD006 (280-22000-6), CP38 SD007 (280-22000-7), CP39 SD008 (280-22000-8), CP40 SD009 (280-22000-9), CP41 SD010 (280-22000-10), CP41 SD011 (280-22000-11), CP42 SD012 (280-22000-12), CP43 SD013 (280-22000-13), MG35 SB123A (280-22000-18) and MG35 SB124A (280-22000-19) were analyzed for explosives in accordance with EPA SW-846 Method 8321B. The samples were dried on 10/25/2011 and 11/02/2011, prepared on 11/03/2011 and 11/04/2011 and analyzed on 11/08/2011 and 11/09/2011.

All samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve. This material was removed and not extracted. The material appeared to be vegetation and seashells.

The matrix spike duplicate (MSD) recovery for prep batch 280-94799, performed on sample CP43 SD013 (280-22000-13) was outside control limits for 2,4,6-trinitrotoluene (57%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly.

No other difficulties were encountered during the explosives analyses.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples CP32 SD001 (280-22000-1), CP33 SD002 (280-22000-2), CP34 SD003 (280-22000-3), CP35 SD004 (280-22000-4), CP36 SD005 (280-22000-5), CP37 SD006 (280-22000-6), CP38 SD007 (280-22000-7), CP39 SD008 (280-22000-8), CP40 SD009 (280-22000-9), CP41 SD010 (280-22000-10), CP41 SD011 (280-22000-11), CP42 SD012 (280-22000-12), CP43 SD013 (280-22000-13), MG35 SB123A (280-22000-18) and MG35 SB124A (280-22000-19) were analyzed for metals (ICPMS) in accordance with SW846 6020A. The samples were prepared on 11/07/2011 and 11/08/2011 and analyzed on 11/08/2011 and 11/09/2011.

The interference check standard solution (ICSA) associated with analytical batch 280-95436 was above the DoD acceptance criteria for antimony (> limit of detection (LOD)). It is believed that the solution contains trace impurities of this element and the result is not due to matrix interference. The result is consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged “Q” for this analyte.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 280-93880, performed on sample CP32 SD001 (280-22000-1) were outside control limits for antimony (22%/19%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly. The parent sample for the serial dilution (SD) had antimony, copper and zinc concentrations less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recoveries for this batch were within the established control limits for these metals.

Copper was detected in method blank MB 280-94817/1-A at a level that was above the detection limit but below the LOQ. The value should be considered an estimate, and has been flagged "J". However, because the result concentration was less than ½ the LOQ, no corrective action was necessary.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Instrument ID: LC_LCMS4 Analysis Batch Number: 95320

Lab Sample ID: 280-22000-5 Client Sample ID: CP36 SD005

Date Analyzed: 11/08/11 23:30 Lab File ID: ex41K07141.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.51	Baseline	meyera	11/09/11 06:41

Lab Sample ID: 280-22000-6 Client Sample ID: CP37 SD006

Date Analyzed: 11/08/11 23:44 Lab File ID: ex41K07142.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.54	Baseline	meyera	11/09/11 06:41

Lab Sample ID: CCV 280-95320/141 Client Sample ID:

Date Analyzed: 11/09/11 00:25 Lab File ID: ex41K07145.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.51	Baseline	meyera	11/09/11 06:42

Lab Sample ID: 280-22000-10 Client Sample ID: CP41 SD010

Date Analyzed: 11/09/11 00:52 Lab File ID: ex41K07147.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.51	Baseline	meyera	11/09/11 06:42

8321B

LCMS MANUAL INTEGRATION SUMMARY

11/11/11

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Instrument ID: LC_LCMS4   Analysis Batch Number: 95320

Lab Sample ID: 280-22000-5   Client Sample ID: CP36 SD005

Date Analyzed: 11/08/11 23:30   Lab File ID: ex41K07141.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.51	Baseline	meyera	11/09/11 06:41

Lab Sample ID: 280-22000-6   Client Sample ID: CP37 SD006

Date Analyzed: 11/08/11 23:44   Lab File ID: ex41K07142.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.54	Baseline	meyera	11/09/11 06:41

Lab Sample ID: CCV 280-95320/141   Client Sample ID:

Date Analyzed: 11/09/11 00:25   Lab File ID: ex41K07145.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.51	Baseline	meyera	11/09/11 06:42

Lab Sample ID: 280-22000-10   Client Sample ID: CP41 SD010

Date Analyzed: 11/09/11 00:52   Lab File ID: ex41K07147.d   GC Column: IonPac   ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrobenzene-d5	5.51	Baseline	meyera	11/09/11 06:42

8321B

11/14/2011

SAMPLE SUMMARY

Client: UXB International, Inc. Job Number: 280-22000-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-22000-1	CP32 SD001	Solid	10/22/2011 0745	10/25/2011 0830
280-22000-2	CP33 SD002	Solid	10/22/2011 0810	10/25/2011 0830
280-22000-3	CP34 SD003	Solid	10/22/2011 0755	10/25/2011 0830
280-22000-4	CP35 SD004	Solid	10/22/2011 0830	10/25/2011 0830
280-22000-5	CP36 SD005	Solid	10/22/2011 0900	10/25/2011 0830
280-22000-6	CP37 SD006	Solid	10/22/2011 0930	10/25/2011 0830
280-22000-7	CP38 SD007	Solid	10/22/2011 0940	10/25/2011 0830
280-22000-8	CP39 SD008	Solid	10/22/2011 0950	10/25/2011 0830
280-22000-9	CP40 SD009	Solid	10/22/2011 1020	10/25/2011 0830
280-22000-10	CP41 SD010	Solid	10/22/2011 1010	10/25/2011 0830
280-22000-11	CP41 SD011	Solid	10/22/2011 1010	10/25/2011 0830
280-22000-12	CP42 SD012	Solid	10/22/2011 1030	10/25/2011 0830
280-22000-13	CP43 SD013	Solid	10/22/2011 1040	10/25/2011 0830
280-22000-18	MG35 SB123A	Solid	10/20/2011 1115	10/25/2011 0830
280-22000-19	MG35 SB124A	Solid	10/20/2011 1125	10/25/2011 0830

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-22000-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-22000-1	**CP32 SD001**					
Antimony		0.020	Q J	0.28	mg/Kg	6020A
Copper		4.4		3.5	mg/Kg	6020A
Lead		6.3		0.14	mg/Kg	6020A
Nickel		4.8		0.49	mg/Kg	6020A
Zinc		17		3.5	mg/Kg	6020A
Percent Moisture		32		0.10	%	Moisture
Percent Solids		68		0.10	%	Moisture
280-22000-2	**CP33 SD002**					
Antimony		0.017	J Q	0.23	mg/Kg	6020A
Copper		0.49	J	2.9	mg/Kg	6020A
Lead		1.2		0.12	mg/Kg	6020A
Nickel		0.98		0.40	mg/Kg	6020A
Zinc		2.8	J	2.9	mg/Kg	6020A
Percent Moisture		18		0.10	%	Moisture
Percent Solids		82		0.10	%	Moisture
280-22000-3	**CP34 SD003**					
Copper		0.66	J	3.2	mg/Kg	6020A
Lead		1.2		0.13	mg/Kg	6020A
Nickel		0.63		0.45	mg/Kg	6020A
Zinc		2.5	J	3.2	mg/Kg	6020A
Percent Moisture		26		0.10	%	Moisture
Percent Solids		74		0.10	%	Moisture
280-22000-4	**CP35 SD004**					
Copper		0.47	J	2.6	mg/Kg	6020A
Lead		0.88		0.10	mg/Kg	6020A
Nickel		0.67		0.36	mg/Kg	6020A
Zinc		2.4	J	2.6	mg/Kg	6020A
Percent Moisture		19		0.10	%	Moisture
Percent Solids		81		0.10	%	Moisture
280-22000-5	**CP36 SD005**					
Copper		0.51	J	3.2	mg/Kg	6020A
Lead		1.8		0.13	mg/Kg	6020A
Nickel		0.83		0.45	mg/Kg	6020A
Zinc		2.6	J	3.2	mg/Kg	6020A
Percent Moisture		23		0.10	%	Moisture
Percent Solids		77		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-22000-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-22000-6	**CP37 SD006**					
Copper		0.40	J	2.7	mg/Kg	6020A
Lead		0.92		0.11	mg/Kg	6020A
Nickel		0.41		0.38	mg/Kg	6020A
Zinc		4.3		2.7	mg/Kg	6020A
Percent Moisture		17		0.10	%	Moisture
Percent Solids		83		0.10	%	Moisture
280-22000-7	**CP38 SD007**					
Copper		0.53	J	3.2	mg/Kg	6020A
Lead		1.2		0.13	mg/Kg	6020A
Nickel		0.61		0.44	mg/Kg	6020A
Zinc		2.6	J	3.2	mg/Kg	6020A
Percent Moisture		21		0.10	%	Moisture
Percent Solids		79		0.10	%	Moisture
280-22000-8	**CP39 SD008**					
Copper		0.43	J	2.7	mg/Kg	6020A
Lead		1.1		0.11	mg/Kg	6020A
Nickel		0.80		0.37	mg/Kg	6020A
Zinc		2.4	J	2.7	mg/Kg	6020A
Percent Moisture		19		0.10	%	Moisture
Percent Solids		81		0.10	%	Moisture
280-22000-9	**CP40 SD009**					
Copper		0.39	J	2.9	mg/Kg	6020A
Lead		1.2		0.12	mg/Kg	6020A
Nickel		0.69		0.41	mg/Kg	6020A
Zinc		2.1	J	2.9	mg/Kg	6020A
Percent Moisture		17		0.10	%	Moisture
Percent Solids		83		0.10	%	Moisture
280-22000-10	**CP41 SD010**					
Copper		0.47	J	3.1	mg/Kg	6020A
Lead		0.94		0.12	mg/Kg	6020A
Nickel		0.78		0.43	mg/Kg	6020A
Zinc		2.6	J	3.1	mg/Kg	6020A
Percent Moisture		21		0.10	%	Moisture
Percent Solids		79		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-22000-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-22000-11	**CP41 SD011**					
Copper		0.47	J	2.8	mg/Kg	6020A
Lead		1.5		0.11	mg/Kg	6020A
Nickel		0.86		0.40	mg/Kg	6020A
Zinc		2.7	J	2.8	mg/Kg	6020A
Percent Moisture		16		0.10	%	Moisture
Percent Solids		84		0.10	%	Moisture
280-22000-12	**CP42 SD012**					
Copper		0.48	J	2.7	mg/Kg	6020A
Lead		1.2		0.11	mg/Kg	6020A
Nickel		1.1		0.38	mg/Kg	6020A
Zinc		2.6	J	2.7	mg/Kg	6020A
Percent Moisture		19		0.10	%	Moisture
Percent Solids		81		0.10	%	Moisture
280-22000-13	**CP43 SD013**					
Copper		0.34	J	2.8	mg/Kg	6020A
Lead		0.80		0.11	mg/Kg	6020A
Nickel		0.55		0.39	mg/Kg	6020A
Zinc		2.4	J	2.8	mg/Kg	6020A
Percent Moisture		19		0.10	%	Moisture
Percent Solids		81		0.10	%	Moisture
280-22000-18	**MG35 SB123A**					
Antimony		0.024	J Q	0.22	mg/Kg	6020A
Copper		5.0		2.7	mg/Kg	6020A
Lead		9.6		0.11	mg/Kg	6020A
Nickel		3.2		0.38	mg/Kg	6020A
Zinc		14		2.7	mg/Kg	6020A
Percent Moisture		15		0.10	%	Moisture
Percent Solids		85		0.10	%	Moisture
280-22000-19	**MG35 SB124A**					
Copper		3.1		2.4	mg/Kg	6020A
Lead		3.9		0.096	mg/Kg	6020A
Nickel		3.8		0.34	mg/Kg	6020A
Zinc		9.5		2.4	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture

METHOD SUMMARY

Client: UXB International, Inc.   Job Number: 280-22000-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Nitroaromatics and Nitramines (LC/MS)	TAL DEN	SW846 8321B	
Incremental Sample Preparation			EPA Increm, Prep
Sonication Extraction (Explosives)			SW846 8330B
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Metals			SW846 3050B
Percent Moisture	TAL DEN	EPA Moisture	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: UXB International, Inc.

Job Number: 280-22000-1

Method	Analyst	Analyst ID
SW846 6020A	Lill, Thomas E	TEL
SW846 8321B	Meyer, Andrew GC	AGCM
EPA Moisture	Berry III, Paul B	PBB

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP32 SD001**

Lab Sample ID: 280-22000-1 Date Sampled: 10/22/2011 0745
Client Matrix: Solid Date Received: 10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94799	Lab File ID:	ex41K07137.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.67 g
Analysis Date:	11/08/2011 2236			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.094
1,3-Dinitrobenzene		0.012	U	0.0067	0.094
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.094
2,4-Dinitrotoluene		0.012	U	0.0077	0.094
2,6-Dinitrotoluene		0.023	U	0.019	0.094
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.094
2-Nitrotoluene		0.012	U	0.0054	0.094
3-Nitrotoluene		0.023	U	0.012	0.094
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.094
4-Nitrotoluene		0.023	U	0.010	0.094
HMX		0.012	U	0.0055	0.094
Nitrobenzene		0.012	U	0.010	0.094
Nitroglycerin		0.012	U	0.0098	0.094
PETN		0.012	U	0.0048	0.094
RDX		0.012	U	0.0040	0.094
Tetryl		0.012	U	0.0071	0.094

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	75		68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP33 SD002**

Lab Sample ID: 280-22000-2 Date Sampled: 10/22/2011 0810
Client Matrix: Solid Date Received: 10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94799	Lab File ID:	ex41K07138.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.96 g
Analysis Date:	11/08/2011 2249			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.011	0.091
1,3-Dinitrobenzene		0.011	U	0.0065	0.091
2,4,6-Trinitrotoluene		0.011	U	0.0046	0.091
2,4-Dinitrotoluene		0.011	U	0.0075	0.091
2,6-Dinitrotoluene		0.023	U	0.018	0.091
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.091
2-Nitrotoluene		0.011	U	0.0052	0.091
3-Nitrotoluene		0.023	U	0.012	0.091
4-Amino-2,6-dinitrotoluene		0.011	U	0.0047	0.091
4-Nitrotoluene		0.023	U	0.010	0.091
HMX		0.011	U	0.0053	0.091
Nitrobenzene		0.011	U	0.0099	0.091
Nitroglycerin		0.011	U	0.0096	0.091
PETN		0.011	U	0.0047	0.091
RDX		0.011	U	0.0039	0.091
Tetryl		0.011	U	0.0069	0.091

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc.   Job Number: 280-22000-1

Client Sample ID: **CP34 SD003**

Lab Sample ID: 280-22000-3   Date Sampled: 10/22/2011 0755
Client Matrix: Solid   Date Received: 10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94799	Lab File ID:	ex41K07139.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.52 g
Analysis Date:	11/08/2011 2303			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0055	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0048	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	92		68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP35 SD004**

Lab Sample ID: 280-22000-4 Date Sampled: 10/22/2011 0830
Client Matrix: Solid Date Received: 10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94799	Lab File ID:	ex41K07140.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.81 g
Analysis Date:	11/08/2011 2317			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.023	U	0.012	0.093
1,3-Dinitrobenzene		0.012	U	0.0066	0.093
2,4,6-Trinitrotoluene		0.012	U	0.0047	0.093
2,4-Dinitrotoluene		0.012	U	0.0076	0.093
2,6-Dinitrotoluene		0.023	U	0.019	0.093
2-Amino-4,6-dinitrotoluene		0.023	U	0.011	0.093
2-Nitrotoluene		0.012	U	0.0053	0.093
3-Nitrotoluene		0.023	U	0.012	0.093
4-Amino-2,6-dinitrotoluene		0.012	U	0.0047	0.093
4-Nitrotoluene		0.023	U	0.010	0.093
HMX		0.012	U	0.0054	0.093
Nitrobenzene		0.012	U	0.010	0.093
Nitroglycerin		0.012	U	0.0097	0.093
PETN		0.012	U	0.0048	0.093
RDX		0.012	U	0.0040	0.093
Tetryl		0.012	U	0.0070	0.093

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP36 SD005**

Lab Sample ID: 280-22000-5 Date Sampled: 10/22/2011 0900
Client Matrix: Solid Date Received: 10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94799	Lab File ID:	ex41K07141.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.13 g
Analysis Date:	11/08/2011 2330			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	91	M	68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP37 SD006**

Lab Sample ID:	280-22000-6	Date Sampled:	10/22/2011 0930
Client Matrix:	Solid	Date Received:	10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94799	Lab File ID:	ex41K07142.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.19 g
Analysis Date:	11/08/2011 2344			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0074	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	73	M	68 - 140

Client: UXB International, Inc. | Job Number: 280-22000-1

Client Sample ID: **CP38 SD007**

Lab Sample ID: 280-22000-7
Client Matrix: Solid

Date Sampled: 10/22/2011 0940
Date Received: 10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94799	Lab File ID:	ex41K07143.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.46 g
Analysis Date:	11/08/2011 2358			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0078	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	92		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP39 SD008**

Lab Sample ID: 280-22000-8 Date Sampled: 10/22/2011 0950
Client Matrix: Solid Date Received: 10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94799	Lab File ID:	ex41K07144.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.18 g
Analysis Date:	11/09/2011 0011			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.098
2,4-Dinitrotoluene		0.012	U	0.0080	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0042	0.098
Tetryl		0.012	U	0.0075	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	88		68 - 140

Analytical Data

Client: UXB International, Inc.

Job Number: 280-22000-1

Client Sample ID: **CP40 SD009**

Lab Sample ID: 280-22000-9
Client Matrix: Solid

Date Sampled: 10/22/2011 1020
Date Received: 10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94799	Lab File ID:	ex41K07146.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.42 g
Analysis Date:	11/09/2011 0038			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0049	0.096
RDX		0.012	U	0.0041	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	85		68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP41 SD010**

Lab Sample ID:	280-22000-10	Date Sampled:	10/22/2011 1010
Client Matrix:	Solid	Date Received:	10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94799	Lab File ID:	ex41K07147.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.11 g
Analysis Date:	11/09/2011 0052			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81	M	68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP41 SD011**

Lab Sample ID: 280-22000-11 Date Sampled: 10/22/2011 1010
Client Matrix: Solid Date Received: 10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94799	Lab File ID:	ex41K07148.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.51 g
Analysis Date:	11/09/2011 0105			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.095
1,3-Dinitrobenzene		0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.095
2,4-Dinitrotoluene		0.012	U	0.0078	0.095
2,6-Dinitrotoluene		0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene		0.024	U	0.011	0.095
2-Nitrotoluene		0.012	U	0.0055	0.095
3-Nitrotoluene		0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.095
4-Nitrotoluene		0.024	U	0.010	0.095
HMX		0.012	U	0.0055	0.095
Nitrobenzene		0.012	U	0.010	0.095
Nitroglycerin		0.012	U	0.010	0.095
PETN		0.012	U	0.0049	0.095
RDX		0.012	U	0.0041	0.095
Tetryl		0.012	U	0.0072	0.095

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	82		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP42 SD012**

Lab Sample ID: 280-22000-12 Date Sampled: 10/22/2011 1030
Client Matrix: Solid Date Received: 10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94799	Lab File ID:	ex41K07149.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.40 g
Analysis Date:	11/09/2011 0119			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0050	0.096
RDX		0.012	U	0.0042	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP43 SD013**

Lab Sample ID:	280-22000-13	Date Sampled:	10/22/2011 1040
Client Matrix:	Solid	Date Received:	10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94799	Lab File ID:	ex41K07150.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.13 g
Analysis Date:	11/09/2011 0133			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.099
1,3-Dinitrobenzene		0.012	U	0.0070	0.099
2,4,6-Trinitrotoluene		0.012	U J	0.0050	0.099
2,4-Dinitrotoluene		0.012	U	0.0081	0.099
2,6-Dinitrotoluene		0.025	U	0.020	0.099
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.099
2-Nitrotoluene		0.012	U	0.0057	0.099
3-Nitrotoluene		0.025	U	0.013	0.099
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.099
4-Nitrotoluene		0.025	U	0.011	0.099
HMX		0.012	U	0.0058	0.099
Nitrobenzene		0.012	U	0.011	0.099
Nitroglycerin		0.012	U	0.010	0.099
PETN		0.012	U	0.0051	0.099
RDX		0.012	U	0.0043	0.099
Tetryl		0.012	U	0.0075	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **MG35 SB123A**

Lab Sample ID: 280-22000-18 Date Sampled: 10/20/2011 1115
Client Matrix: Solid Date Received: 10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95468	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94652	Lab File ID:	ex41K07198.d
Dilution:	1.0	Leach Batch:	280-94503	Initial Weight/Volume:	10.00 g
Analysis Date:	11/09/2011 1230			Final Weight/Volume:	40 mL
Prep Date:	11/03/2011 1520			Injection Volume:	40 uL
Leach Date:	11/02/2011 1704				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.013	0.10
1,3-Dinitrobenzene		0.013	U	0.0071	0.10
2,4,6-Trinitrotoluene		0.013	U	0.0050	0.10
2,4-Dinitrotoluene		0.013	U	0.0082	0.10
2,6-Dinitrotoluene		0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.10
2-Nitrotoluene		0.013	U	0.0057	0.10
3-Nitrotoluene		0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene		0.013	U	0.0051	0.10
4-Nitrotoluene		0.025	U	0.011	0.10
HMX		0.013	U	0.0058	0.10
Nitrobenzene		0.013	U	0.011	0.10
Nitroglycerin		0.013	U	0.011	0.10
PETN		0.013	U	0.0052	0.10
RDX		0.013	U	0.0043	0.10
Tetryl		0.013	U	0.0076	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	82		68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **MG35 SB124A**

Lab Sample ID:	280-22000-19	Date Sampled:	10/20/2011 1125
Client Matrix:	Solid	Date Received:	10/25/2011 0830

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95468	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-94652	Lab File ID:	ex41K07199.d
Dilution:	1.0	Leach Batch:	280-94503	Initial Weight/Volume:	10.16 g
Analysis Date:	11/09/2011 1244			Final Weight/Volume:	40 mL
Prep Date:	11/03/2011 1520			Injection Volume:	40 uL
Leach Date:	11/02/2011 1704				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.025	U	0.012	0.098
1,3-Dinitrobenzene		0.012	U	0.0070	0.098
2,4,6-Trinitrotoluene		0.012	U	0.0050	0.098
2,4-Dinitrotoluene		0.012	U	0.0081	0.098
2,6-Dinitrotoluene		0.025	U	0.020	0.098
2-Amino-4,6-dinitrotoluene		0.025	U	0.012	0.098
2-Nitrotoluene		0.012	U	0.0056	0.098
3-Nitrotoluene		0.025	U	0.013	0.098
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.098
4-Nitrotoluene		0.025	U	0.011	0.098
HMX		0.012	U	0.0057	0.098
Nitrobenzene		0.012	U	0.011	0.098
Nitroglycerin		0.012	U	0.010	0.098
PETN		0.012	U	0.0051	0.098
RDX		0.012	U	0.0043	0.098
Tetryl		0.012	U	0.0075	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	80		68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID:	**CP32 SD001**			
Lab Sample ID:	280-22000-1			Date Sampled: 10/22/2011 0745
Client Matrix:	Solid	% Moisture:	31.8	Date Received: 10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-93880	Lab File ID:	102AREF.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 2347			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.020	Q J	0.020	0.28
Copper		4.4		0.099	3.5
Lead		6.3		0.025	0.14
Nickel		4.8		0.035	0.49
Zinc		17		0.44	3.5

Analytical Data

Client: UXB International, Inc. | Job Number: 280-22000-1

Client Sample ID: **CP33 SD002**

Lab Sample ID:	280-22000-2			Date Sampled:	10/22/2011 0810
Client Matrix:	Solid	% Moisture:	18.2	Date Received:	10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-93880	Lab File ID:	107SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	11/09/2011 0002			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.017	J Q	0.016	0.23
Copper		0.49	J	0.082	2.9
Lead		1.2		0.021	0.12
Nickel		0.98		0.029	0.40
Zinc		2.8	J	0.36	2.9

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID:	**CP34 SD003**		
Lab Sample ID:	280-22000-3		Date Sampled: 10/22/2011 0755
Client Matrix:	Solid	% Moisture: 25.6	Date Received: 10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-93880	Lab File ID:	108SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/09/2011 0004			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.051	U Q	0.018	0.26
Copper		0.66	J	0.091	3.2
Lead		1.2		0.023	0.13
Nickel		0.63		0.032	0.45
Zinc		2.5	J	0.40	3.2

Client: UXB International, Inc.

Job Number: 280-22000-1

Client Sample ID:	**CP35 SD004**		
Lab Sample ID:	280-22000-4		Date Sampled: 10/22/2011 0830
Client Matrix:	Solid	% Moisture: 18.8	Date Received: 10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-93880	Lab File ID:	109SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.20 g
Analysis Date:	11/09/2011 0007			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.041	U Q	0.014	0.21
Copper		0.47	J	0.073	2.6
Lead		0.88		0.019	0.10
Nickel		0.67		0.026	0.36
Zinc		2.4	J	0.32	2.6

Client Sample ID: **CP36 SD005**

Lab Sample ID:	280-22000-5			Date Sampled:	10/22/2011 0900
Client Matrix:	Solid	% Moisture:	23.2	Date Received:	10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-93880	Lab File ID:	113SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	11/09/2011 0019			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.051	U Q	0.018	0.26
Copper		0.51	J	0.091	3.2
Lead		1.8		0.023	0.13
Nickel		0.83		0.032	0.45
Zinc		2.6	J	0.40	3.2

Client: UXB International, Inc. | Job Number: 280-22000-1

Client Sample ID: **CP37 SD006**

Lab Sample ID:	280-22000-6			Date Sampled:	10/22/2011 0930
Client Matrix:	Solid	% Moisture:	16.9	Date Received:	10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-93880	Lab File ID:	114SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	11/09/2011 0022			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.043	U Q	0.015	0.22
Copper		0.40	J	0.077	2.7
Lead		0.92		0.020	0.11
Nickel		0.41		0.027	0.38
Zinc		4.3		0.34	2.7

Analytical Data

Client: UXB International, Inc.　　　　Job Number: 280-22000-1

Client Sample ID: **CP38 SD007**

Lab Sample ID:	280-22000-7			Date Sampled:	10/22/2011 0940
Client Matrix:	Solid	% Moisture:	20.6	Date Received:	10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-93880	Lab File ID:	115SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	11/09/2011 0025			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.050	U Q	0.018	0.25
Copper		0.53	J	0.090	3.2
Lead		1.2		0.023	0.13
Nickel		0.61		0.032	0.44
Zinc		2.6	J	0.40	3.2

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP39 SD008**

Lab Sample ID:	280-22000-8			Date Sampled:	10/22/2011 0950
Client Matrix:	Solid	% Moisture:	19.4	Date Received:	10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-93880	Lab File ID:	116SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	11/09/2011 0028			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.043	U Q	0.015	0.21
Copper		0.43	J	0.076	2.7
Lead		1.1		0.019	0.11
Nickel		0.80		0.027	0.37
Zinc		2.4	J	0.34	2.7

Analytical Data

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP40 SD009**

Lab Sample ID: 280-22000-9 Date Sampled: 10/22/2011 1020
Client Matrix: Solid % Moisture: 17.0 Date Received: 10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-93880	Lab File ID:	117SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/09/2011 0031			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.047	U Q	0.016	0.23
Copper		0.39	J	0.083	2.9
Lead		1.2		0.021	0.12
Nickel		0.69		0.030	0.41
Zinc		2.1	J	0.37	2.9

Analytical Data

Client: UXB International, Inc.

Job Number: 280-22000-1

Client Sample ID: **CP41 SD010**

Lab Sample ID:	280-22000-10			Date Sampled:	10/22/2011 1010
Client Matrix:	Solid	% Moisture:	20.9	Date Received:	10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-93880	Lab File ID:	118SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	11/09/2011 0034			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.050	U Q	0.017	0.25
Copper		0.47	J	0.088	3.1
Lead		0.94		0.023	0.12
Nickel		0.78		0.031	0.43
Zinc		2.6	J	0.39	3.1

Client Sample ID: **CP41 SD011**

Lab Sample ID: 280-22000-11 Date Sampled: 10/22/2011 1010
Client Matrix: Solid % Moisture: 16.0 Date Received: 10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-93880	Lab File ID:	119SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	11/09/2011 0037			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.045	U Q	0.016	0.23
Copper		0.47	J	0.081	2.8
Lead		1.5		0.021	0.11
Nickel		0.86		0.029	0.40
Zinc		2.7	J	0.36	2.8

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP42 SD012**

Lab Sample ID:	280-22000-12			Date Sampled:	10/22/2011 1030
Client Matrix:	Solid	% Moisture:	19.3	Date Received:	10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-93880	Lab File ID:	120SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	11/09/2011 0040			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.044	U Q	0.015	0.22
Copper		0.48	J	0.078	2.7
Lead		1.2		0.020	0.11
Nickel		1.1		0.028	0.38
Zinc		2.6	J	0.35	2.7

Analytical Data

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **CP43 SD013**

Lab Sample ID:	280-22000-13			Date Sampled:	10/22/2011 1040
Client Matrix:	Solid	% Moisture:	19.3	Date Received:	10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-93880	Lab File ID:	121SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	11/09/2011 0042			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.045	U Q	0.016	0.23
Copper		0.34	J	0.080	2.8
Lead		0.80		0.021	0.11
Nickel		0.55		0.029	0.39
Zinc		2.4	J	0.36	2.8

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **MG35 SB123A**

Lab Sample ID:	280-22000-18			Date Sampled:	10/20/2011 1115
Client Matrix:	Solid	% Moisture:	15.2	Date Received:	10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94817	Lab File ID:	072SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	11/08/2011 2221			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 0515				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.024	J Q	0.015	0.22
Copper		5.0		0.078	2.7
Lead		9.6		0.020	0.11
Nickel		3.2		0.028	0.38
Zinc		14		0.35	2.7

Client: UXB International, Inc. Job Number: 280-22000-1

Client Sample ID: **MG35 SB124A**

Lab Sample ID:	280-22000-19			Date Sampled:	10/20/2011 1125
Client Matrix:	Solid	% Moisture:	12.4	Date Received:	10/25/2011 0830

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-94817	Lab File ID:	073SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	11/08/2011 2223			Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 0515				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.038	U Q	0.013	0.19
Copper		3.1		0.068	2.4
Lead		3.9		0.017	0.096
Nickel		3.8		0.024	0.34
Zinc		9.5		0.30	2.4

General Chemistry

Client Sample ID: **CP32 SD001**

Lab Sample ID: 280-22000-1 Date Sampled: 10/22/2011 0745

Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	32		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110		Analysis Date: 10/26/2011 0715					DryWt Corrected: N
Percent Solids	68		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110		Analysis Date: 10/26/2011 0715					DryWt Corrected: N

General Chemistry

Client Sample ID: CP33 SD002

Lab Sample ID: 280-22000-2 Date Sampled: 10/22/2011 0810
Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	18		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N
Percent Solids	82		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-22000-1

General Chemistry

Client Sample ID: **CP34 SD003**

Lab Sample ID: 280-22000-3 Date Sampled: 10/22/2011 0755
Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	26		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N
Percent Solids	74		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP35 SD004**

Lab Sample ID: 280-22000-4 Date Sampled: 10/22/2011 0830
Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	19		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110		Analysis Date: 10/26/2011 0715					DryWt Corrected: N
Percent Solids	81		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110		Analysis Date: 10/26/2011 0715					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP36 SD005**

Lab Sample ID: 280-22000-5 Date Sampled: 10/22/2011 0900
Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	23		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715					DryWt Corrected: N
Percent Solids	77		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP37 SD006**

Lab Sample ID: 280-22000-6 Date Sampled: 10/22/2011 0930
Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	17		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N
Percent Solids	83		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP38 SD007**

Lab Sample ID: 280-22000-7 Date Sampled: 10/22/2011 0940
Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	21		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N
Percent Solids	79		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP39 SD008**

Lab Sample ID: 280-22000-8 Date Sampled: 10/22/2011 0950

Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	19		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N
Percent Solids	81		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP40 SD009**

Lab Sample ID: 280-22000-9 Date Sampled: 10/22/2011 1020
Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	17		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110		Analysis Date: 10/26/2011 0715					DryWt Corrected: N
Percent Solids	83		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110		Analysis Date: 10/26/2011 0715					DryWt Corrected: N

General Chemistry

Client Sample ID: CP41 SD010

Lab Sample ID: 280-22000-10 Date Sampled: 10/22/2011 1010
Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	21		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N
Percent Solids	79		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP41 SD011**

Lab Sample ID: 280-22000-11 Date Sampled: 10/22/2011 1010

Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	16		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110		Analysis Date: 10/26/2011 0715					DryWt Corrected: N
Percent Solids	84		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110		Analysis Date: 10/26/2011 0715					DryWt Corrected: N

General Chemistry

Client Sample ID: **CP42 SD012**

Lab Sample ID: 280-22000-12 Date Sampled: 10/22/2011 1030

Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	19		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N
Percent Solids	81		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP43 SD013**

Lab Sample ID: 280-22000-13 Date Sampled: 10/22/2011 1040
Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	19		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N
Percent Solids	81		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-93110	Analysis Date: 10/26/2011 0715						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG35 SB123A**

Lab Sample ID: 280-22000-18 Date Sampled: 10/20/2011 1115
Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	15		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-94527	Analysis Date: 11/03/2011 0719						DryWt Corrected: N
Percent Solids	85		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-94527	Analysis Date: 11/03/2011 0719						DryWt Corrected: N

General Chemistry

Client Sample ID: **MG35 SB124A**

Lab Sample ID: 280-22000-19 Date Sampled: 10/20/2011 1125
Client Matrix: Solid Date Received: 10/25/2011 0830

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-94527	Analysis Date: 11/03/2011 0719						DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-94527	Analysis Date: 11/03/2011 0719						DryWt Corrected: N

Surrogate Recovery Report

8321B Nitroaromatics and Nitramines (LC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	NBZ %Rec
280-22000-1	CP32 SD001	75
280-22000-2	CP33 SD002	80
280-22000-3	CP34 SD003	92
280-22000-4	CP35 SD004	80
280-22000-5	CP36 SD005	91M
280-22000-6	CP37 SD006	73M
280-22000-7	CP38 SD007	92
280-22000-8	CP39 SD008	88
280-22000-9	CP40 SD009	85
280-22000-10	CP41 SD010	81M
280-22000-11	CP41 SD011	82
280-22000-12	CP42 SD012	80
280-22000-13	CP43 SD013	80
280-22000-18	MG35 SB123A	82
280-22000-19	MG35 SB124A	80
MB 280-94652/1-A		77
MB 280-94799/1-A		97
LCS 280-94652/2-A		78
LCS 280-94799/2-A		87
280-22000-13 MS	CP43 SD013 MS	85
280-22000-19 MS	MG35 SB124A MS	81
280-22000-13 MSD	CP43 SD013 MSD	79
280-22000-19 MSD	MG35 SB124A MSD	77

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	68-140

Client: UXB International, Inc. | Job Number: 280-22000-1

Method Blank - Batch: 280-94652

Method: 8321B
Preparation: 8330B

Lab Sample ID:	MB 280-94652/1-A	Analysis Batch:	280-95468	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-94652	Lab File ID:	ex41K07196.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.01 g
Analysis Date:	11/09/2011 1203	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	11/03/2011 1520			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.025	U	0.013	0.10
1,3-Dinitrobenzene	0.012	U	0.0071	0.10
2,4,6-Trinitrotoluene	0.012	U	0.0050	0.10
2,4-Dinitrotoluene	0.012	U	0.0082	0.10
2,6-Dinitrotoluene	0.025	U	0.020	0.10
2-Amino-4,6-dinitrotoluene	0.025	U	0.012	0.10
2-Nitrotoluene	0.012	U	0.0057	0.10
3-Nitrotoluene	0.025	U	0.013	0.10
4-Amino-2,6-dinitrotoluene	0.012	U	0.0051	0.10
4-Nitrotoluene	0.025	U	0.011	0.10
HMX	0.012	U	0.0058	0.10
Nitrobenzene	0.012	U	0.011	0.10
Nitroglycerin	0.012	U	0.010	0.10
PETN	0.012	U	0.0051	0.10
RDX	0.012	U	0.0043	0.10
Tetryl	0.012	U	0.0076	0.10

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	77	68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Lab Control Sample - Batch: 280-94652

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCS 280-94652/2-A	Analysis Batch:	280-95468	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-94652	Lab File ID:	ex41K07197.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.49 g
Analysis Date:	11/09/2011 1216	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	11/03/2011 1520			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.381	0.271	71	45 - 142	
1,3-Dinitrobenzene	0.381	0.351	92	74 - 130	
2,4,6-Trinitrotoluene	0.381	0.376	99	60 - 135	
2,4-Dinitrotoluene	0.381	0.333	87	63 - 130	
2,6-Dinitrotoluene	0.381	0.321	84	65 - 133	
2-Amino-4,6-dinitrotoluene	0.381	0.344	90	51 - 148	
2-Nitrotoluene	0.381	0.348	91	59 - 150	
3-Nitrotoluene	0.381	0.342	90	56 - 154	
4-Amino-2,6-dinitrotoluene	0.381	0.352	92	60 - 141	
4-Nitrotoluene	0.381	0.355	93	72 - 145	
HMX	0.381	0.338	89	48 - 131	
Nitrobenzene	0.381	0.345	91	70 - 140	
Nitroglycerin	0.381	0.282	74	27 - 146	
PETN	0.381	0.273	72	31 - 171	
RDX	0.381	0.364	95	69 - 130	
Tetryl	0.381	0.364	95	10 - 170	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	78	68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94652

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-22000-19	Analysis Batch:	280-95468	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-94652	Lab File ID:	ex41K07200.d
Dilution:	1.0	Leach Batch:	280-94503	Initial Weight/Volume:	10.13 g
Analysis Date:	11/09/2011 1257			Final Weight/Volume:	40 mL
Prep Date:	11/03/2011 1520			Injection Volume:	40 uL
Leach Date:	11/02/2011 1704				

MSD Lab Sample ID:	280-22000-19	Analysis Batch:	280-95468	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-94652	Lab File ID:	ex41K07201.d
Dilution:	1.0	Leach Batch:	280-94503	Initial Weight/Volume:	10.94 g
Analysis Date:	11/09/2011 1311			Final Weight/Volume:	40 mL
Prep Date:	11/03/2011 1520			Injection Volume:	40 uL
Leach Date:	11/02/2011 1704				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,3,5-Trinitrobenzene	78	73	45 - 142	14	70		
1,3-Dinitrobenzene	95	87	74 - 130	17	25		
2,4,6-Trinitrotoluene	86	83	60 - 135	11	25		
2,4-Dinitrotoluene	95	90	63 - 130	13	25		
2,6-Dinitrotoluene	88	88	65 - 133	8	25		
2-Amino-4,6-dinitrotoluene	100	90	51 - 148	18	25		
2-Nitrotoluene	88	90	59 - 150	5	45		
3-Nitrotoluene	86	85	56 - 154	9	25		
4-Amino-2,6-dinitrotoluene	85	90	60 - 141	2	48		
4-Nitrotoluene	89	88	72 - 145	8	25		
HMX	78	81	48 - 131	4	25		
Nitrobenzene	88	86	70 - 140	10	25		
Nitroglycerin	85	78	27 - 146	16	92		
PETN	78	79	31 - 171	7	40		
RDX	90	93	69 - 130	4	25		
Tetryl	101	87	10 - 170	23	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	81	77	68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94652

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-22000-19	Units:	mg/Kg	MSD Lab Sample ID:	280-22000-19
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/09/2011 1257			Analysis Date:	11/09/2011 1311
Prep Date:	11/03/2011 1520			Prep Date:	11/03/2011 1520
Leach Date:	11/02/2011 1704			Leach Date:	11/02/2011 1704

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,3,5-Trinitrobenzene	0.025	U	0.395	0.366	0.308	0.267
1,3-Dinitrobenzene	0.012	U	0.395	0.366	0.377	0.317
2,4,6-Trinitrotoluene	0.012	U	0.395	0.366	0.338	0.302
2,4-Dinitrotoluene	0.012	U	0.395	0.366	0.374	0.329
2,6-Dinitrotoluene	0.025	U	0.395	0.366	0.347	0.322
2-Amino-4,6-dinitrotoluene	0.025	U	0.395	0.366	0.394	0.328
2-Nitrotoluene	0.012	U	0.395	0.366	0.346	0.328
3-Nitrotoluene	0.025	U	0.395	0.366	0.339	0.310
4-Amino-2,6-dinitrotoluene	0.012	U	0.395	0.366	0.337	0.329
4-Nitrotoluene	0.025	U	0.395	0.366	0.350	0.322
HMX	0.012	U	0.395	0.366	0.309	0.298
Nitrobenzene	0.012	U	0.395	0.366	0.348	0.314
Nitroglycerin	0.012	U	0.395	0.366	0.334	0.283
PETN	0.012	U	0.395	0.366	0.308	0.288
RDX	0.012	U	0.395	0.366	0.354	0.341
Tetryl	0.012	U	0.395	0.366	0.399	0.317

Client: UXB International, Inc. Job Number: 280-22000-1

Method Blank - Batch: 280-94799

Method: 8321B
Preparation: 8330B

Lab Sample ID:	MB 280-94799/1-A	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-94799	Lab File ID:	ex41K07135.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.54 g
Analysis Date:	11/08/2011 2208	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.024	U	0.012	0.095
1,3-Dinitrobenzene	0.012	U	0.0068	0.095
2,4,6-Trinitrotoluene	0.012	U	0.0048	0.095
2,4-Dinitrotoluene	0.012	U	0.0078	0.095
2,6-Dinitrotoluene	0.024	U	0.019	0.095
2-Amino-4,6-dinitrotoluene	0.024	U	0.011	0.095
2-Nitrotoluene	0.012	U	0.0054	0.095
3-Nitrotoluene	0.024	U	0.012	0.095
4-Amino-2,6-dinitrotoluene	0.012	U	0.0048	0.095
4-Nitrotoluene	0.024	U	0.010	0.095
HMX	0.012	U	0.0055	0.095
Nitrobenzene	0.012	U	0.010	0.095
Nitroglycerin	0.012	U	0.010	0.095
PETN	0.012	U	0.0049	0.095
RDX	0.012	U	0.0041	0.095
Tetryl	0.012	U	0.0072	0.095

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	97	68 - 140

Client: UXB International, Inc. | Job Number: 280-22000-1

Lab Control Sample - Batch: 280-94799

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCS 280-94799/2-A	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-94799	Lab File ID:	ex41K07136.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.96 g
Analysis Date:	11/08/2011 2222	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.365	0.301	82	45 - 142	
1,3-Dinitrobenzene	0.365	0.368	101	74 - 130	
2,4,6-Trinitrotoluene	0.365	0.225	62	60 - 135	
2,4-Dinitrotoluene	0.365	0.353	97	63 - 130	
2,6-Dinitrotoluene	0.365	0.307	84	65 - 133	
2-Amino-4,6-dinitrotoluene	0.365	0.397	109	51 - 148	
2-Nitrotoluene	0.365	0.297	82	59 - 150	
3-Nitrotoluene	0.365	0.295	81	56 - 154	
4-Amino-2,6-dinitrotoluene	0.365	0.323	89	60 - 141	
4-Nitrotoluene	0.365	0.292	80	72 - 145	
HMX	0.365	0.343	94	48 - 131	
Nitrobenzene	0.365	0.350	96	70 - 140	
Nitroglycerin	0.365	0.286	78	27 - 146	
PETN	0.365	0.291	80	31 - 171	
RDX	0.365	0.353	97	69 - 130	
Tetryl	0.365	0.197	54	10 - 170	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	87	68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94799

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-22000-13	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-94799	Lab File ID:	ex41K07151.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.02 g
Analysis Date:	11/09/2011 0146			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

MSD Lab Sample ID:	280-22000-13	Analysis Batch:	280-95320	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-94799	Lab File ID:	ex41K07152.d
Dilution:	1.0	Leach Batch:	280-93084	Initial Weight/Volume:	10.22 g
Analysis Date:	11/09/2011 0200			Final Weight/Volume:	40 mL
Prep Date:	11/04/2011 1435			Injection Volume:	40 uL
Leach Date:	10/25/2011 2231				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,3,5-Trinitrobenzene	76	73	45 - 142	6	70		
1,3-Dinitrobenzene	101	88	74 - 130	16	25		
2,4,6-Trinitrotoluene	60	57	60 - 135	8	25		J
2,4-Dinitrotoluene	89	82	63 - 130	11	25		
2,6-Dinitrotoluene	88	80	65 - 133	11	25		
2-Amino-4,6-dinitrotoluene	115	94	51 - 148	22	25		
2-Nitrotoluene	105	84	59 - 150	24	45		
3-Nitrotoluene	108	90	56 - 154	21	25		
4-Amino-2,6-dinitrotoluene	103	90	60 - 141	16	48		
4-Nitrotoluene	110	91	72 - 145	21	25		
HMX	83	81	48 - 131	4	25		
Nitrobenzene	94	88	70 - 140	9	25		
Nitroglycerin	82	81	27 - 146	3	92		
PETN	79	70	31 - 171	14	40		
RDX	93	94	69 - 130	2	25		
Tetryl	55	50	10 - 170	12	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	85	79	68 - 140

Client: UXB International, Inc. Job Number: 280-22000-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94799

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-22000-13	Units: mg/Kg		MSD Lab Sample ID:	280-22000-13
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/09/2011 0146			Analysis Date:	11/09/2011 0200
Prep Date:	11/04/2011 1435			Prep Date:	11/04/2011 1435
Leach Date:	10/25/2011 2231			Leach Date:	10/25/2011 2231

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,3,5-Trinitrobenzene	0.025	U	0.399	0.391	0.303		0.286	
1,3-Dinitrobenzene	0.012	U	0.399	0.391	0.403		0.343	
2,4,6-Trinitrotoluene	0.012	U	0.399	0.391	0.241		0.223	J
2,4-Dinitrotoluene	0.012	U	0.399	0.391	0.357		0.321	
2,6-Dinitrotoluene	0.025	U	0.399	0.391	0.351		0.314	
2-Amino-4,6-dinitrotoluene	0.025	U	0.399	0.391	0.460		0.369	
2-Nitrotoluene	0.012	U	0.399	0.391	0.418		0.328	
3-Nitrotoluene	0.025	U	0.399	0.391	0.432		0.351	
4-Amino-2,6-dinitrotoluene	0.012	U	0.399	0.391	0.412		0.352	
4-Nitrotoluene	0.025	U	0.399	0.391	0.441		0.357	
HMX	0.012	U	0.399	0.391	0.332		0.318	
Nitrobenzene	0.012	U	0.399	0.391	0.376		0.344	
Nitroglycerin	0.012	U	0.399	0.391	0.329		0.318	
PETN	0.012	U	0.399	0.391	0.317		0.276	
RDX	0.012	U	0.399	0.391	0.373		0.366	
Tetryl	0.012	U	0.399	0.391	0.219		0.194	

Quality Control Results

Client: UXB International, Inc. Job Number: 280-22000-1

Method Blank - Batch: 280-93880 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	MB 280-93880/1-A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-93880	Lab File ID:	100_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 2341	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.038	U Q	0.013	0.19
Copper	0.19	U	0.068	2.4
Lead	0.048	U	0.017	0.095
Nickel	0.071	U	0.024	0.33
Zinc	0.86	U	0.30	2.4

Lab Control Sample - Batch: 280-93880 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	LCS 280-93880/2-A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-93880	Lab File ID:	101_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.07 g
Analysis Date:	11/08/2011 2344	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	18.7	18.5	99	82 - 110	Q
Copper	18.7	18.7	100	87 - 125	
Lead	18.7	18.8	100	81 - 125	
Nickel	18.7	19.1	102	90 - 113	
Zinc	18.7	18.2	97	85 - 119	

Post Digestion Spike - Batch: 280-93880 **Method: 6020A**
Preparation: 3050B

Lab Sample ID:	280-22000-1	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-93880	Lab File ID:	104PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 2353	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.020	J	140	141	101	75 - 125	Q
Copper	4.4		140	135	94	75 - 125	
Lead	6.3		140	140	96	75 - 125	
Nickel	4.8		140	146	101	75 - 125	
Zinc	17		140	150	95	75 - 125	

Client: UXB International, Inc. Job Number: 280-22000-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-93880

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-22000-1	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-93880	Lab File ID:	105_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.03 g
Analysis Date:	11/08/2011 2356			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-22000-1	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-93880	Lab File ID:	106_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 2359			Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	22	19	82 - 110	17	20	Q J	Q J
Copper	99	93	87 - 125	7	20		
Lead	104	97	81 - 125	7	20		
Nickel	104	97	90 - 113	8	20		
Zinc	107	95	85 - 119	8	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-93880

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-22000-1	Units:	mg/Kg	MSD Lab Sample ID:	280-22000-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/08/2011 2356			Analysis Date:	11/08/2011 2359
Prep Date:	11/07/2011 1400			Prep Date:	11/07/2011 1400
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.020	J	28.5	27.9	6.30	Q J	5.32	Q J
Copper	4.4		28.5	27.9	32.6		30.5	
Lead	6.3		28.5	27.9	35.9		33.5	
Nickel	4.8		28.5	27.9	34.3		31.8	
Zinc	17		28.5	27.9	47.3		43.5	

Quality Control Results

Client: UXB International, Inc. | Job Number: 280-22000-1

Serial Dilution - Batch: 280-93880

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-22000-1	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-93880	Lab File ID:	103SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	11/08/2011 2350	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/07/2011 1400				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.020	J	0.28	NC	10	U Q
Copper	4.4		4.46	NC	10	J D
Lead	6.3		6.43	2.7	10	D
Nickel	4.8		4.77	1.1	10	D
Zinc	17		16.9	NC	10	J D

Client: UXB International, Inc. Job Number: 280-22000-1

Method Blank - Batch: 280-94817

Method: 6020A
Preparation: 3050B

Lab Sample ID:	MB 280-94817/1-A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94817	Lab File ID:	070_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	11/08/2011 2215	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 0515				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.039	U Q	0.014	0.20
Copper	0.110	J	0.070	2.5
Lead	0.049	U	0.018	0.098
Nickel	0.074	U	0.025	0.34
Zinc	0.88	U	0.31	2.5

Lab Control Sample - Batch: 280-94817

Method: 6020A
Preparation: 3050B

Lab Sample ID:	LCS 280-94817/2-A	Analysis Batch:	280-95436	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-94817	Lab File ID:	071_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.18 g
Analysis Date:	11/08/2011 2218	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/08/2011 0515				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	16.9	17.1	101	82 - 110	Q
Copper	16.9	17.5	103	87 - 125	
Lead	16.9	17.5	103	81 - 125	
Nickel	16.9	17.7	105	90 - 113	
Zinc	16.9	16.9	100	85 - 119	

DATA REPORTING QUALIFIERS

Client: UXB International, Inc. Job Number: 280-22000-1

Lab Section	Qualifier	Description
Metals		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	Q	One or more quality control criteria failed.
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.
LCMS		
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	M	Manual integrated compound.
	U	Undetected at the Limit of Detection.

Client: UXB International, Inc. Job Number: 280-22000-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-93880					
LCS 280-93880/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-93880/1-A	Method Blank	T	Solid	3050B	
280-22000-1	CP32 SD001	T	Solid	3050B	
280-22000-1MS	Matrix Spike	T	Solid	3050B	
280-22000-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-22000-2	CP33 SD002	T	Solid	3050B	
280-22000-3	CP34 SD003	T	Solid	3050B	
280-22000-4	CP35 SD004	T	Solid	3050B	
280-22000-5	CP36 SD005	T	Solid	3050B	
280-22000-6	CP37 SD006	T	Solid	3050B	
280-22000-7	CP38 SD007	T	Solid	3050B	
280-22000-8	CP39 SD008	T	Solid	3050B	
280-22000-9	CP40 SD009	T	Solid	3050B	
280-22000-10	CP41 SD010	T	Solid	3050B	
280-22000-11	CP41 SD011	T	Solid	3050B	
280-22000-12	CP42 SD012	T	Solid	3050B	
280-22000-13	CP43 SD013	T	Solid	3050B	
Prep Batch: 280-94817					
LCS 280-94817/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-94817/1-A	Method Blank	T	Solid	3050B	
280-22000-18	MG35 SB123A	T	Solid	3050B	
280-22000-19	MG35 SB124A	T	Solid	3050B	

Client: UXB International, Inc. Job Number: 280-22000-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-95436					
LCS 280-93880/2-A	Lab Control Sample	T	Solid	6020A	280-93880
MB 280-93880/1-A	Method Blank	T	Solid	6020A	280-93880
LCS 280-94817/2-A	Lab Control Sample	T	Solid	6020A	280-94817
MB 280-94817/1-A	Method Blank	T	Solid	6020A	280-94817
280-22000-1	CP32 SD001	T	Solid	6020A	280-93880
280-22000-1MS	Matrix Spike	T	Solid	6020A	280-93880
280-22000-1MSD	Matrix Spike Duplicate	T	Solid	6020A	280-93880
280-22000-2	CP33 SD002	T	Solid	6020A	280-93880
280-22000-3	CP34 SD003	T	Solid	6020A	280-93880
280-22000-4	CP35 SD004	T	Solid	6020A	280-93880
280-22000-5	CP36 SD005	T	Solid	6020A	280-93880
280-22000-6	CP37 SD006	T	Solid	6020A	280-93880
280-22000-7	CP38 SD007	T	Solid	6020A	280-93880
280-22000-8	CP39 SD008	T	Solid	6020A	280-93880
280-22000-9	CP40 SD009	T	Solid	6020A	280-93880
280-22000-10	CP41 SD010	T	Solid	6020A	280-93880
280-22000-11	CP41 SD011	T	Solid	6020A	280-93880
280-22000-12	CP42 SD012	T	Solid	6020A	280-93880
280-22000-13	CP43 SD013	T	Solid	6020A	280-93880
280-22000-18	MG35 SB123A	T	Solid	6020A	280-94817
280-22000-19	MG35 SB124A	T	Solid	6020A	280-94817

Report Basis

T = Total

Client: UXB International, Inc. Job Number: 280-22000-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-93084					
280-22000-1	CP32 SD001	T	Solid	Increm, Prep	
280-22000-2	CP33 SD002	T	Solid	Increm, Prep	
280-22000-3	CP34 SD003	T	Solid	Increm, Prep	
280-22000-4	CP35 SD004	T	Solid	Increm, Prep	
280-22000-5	CP36 SD005	T	Solid	Increm, Prep	
280-22000-6	CP37 SD006	T	Solid	Increm, Prep	
280-22000-7	CP38 SD007	T	Solid	Increm, Prep	
280-22000-8	CP39 SD008	T	Solid	Increm, Prep	
280-22000-9	CP40 SD009	T	Solid	Increm, Prep	
280-22000-10	CP41 SD010	T	Solid	Increm, Prep	
280-22000-11	CP41 SD011	T	Solid	Increm, Prep	
280-22000-12	CP42 SD012	T	Solid	Increm, Prep	
280-22000-13	CP43 SD013	T	Solid	Increm, Prep	
280-22000-13MS	Matrix Spike	T	Solid	Increm, Prep	
280-22000-13MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
Prep Batch: 280-94503					
280-22000-18	MG35 SB123A	T	Solid	Increm, Prep	
280-22000-19	MG35 SB124A	T	Solid	Increm, Prep	
280-22000-19MS	Matrix Spike	T	Solid	Increm, Prep	
280-22000-19MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
Prep Batch: 280-94652					
LCS 280-94652/2-A	Lab Control Sample	T	Solid	8330B	
MB 280-94652/1-A	Method Blank	T	Solid	8330B	
280-22000-18	MG35 SB123A	T	Solid	8330B	280-94503
280-22000-19	MG35 SB124A	T	Solid	8330B	280-94503
280-22000-19MS	Matrix Spike	T	Solid	8330B	280-94503
280-22000-19MSD	Matrix Spike Duplicate	T	Solid	8330B	280-94503

Client: UXB International, Inc. Job Number: 280-22000-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-94799					
LCS 280-94799/2-A	Lab Control Sample	T	Solid	8330B	
MB 280-94799/1-A	Method Blank	T	Solid	8330B	
280-22000-1	CP32 SD001	T	Solid	8330B	280-93084
280-22000-2	CP33 SD002	T	Solid	8330B	280-93084
280-22000-3	CP34 SD003	T	Solid	8330B	280-93084
280-22000-4	CP35 SD004	T	Solid	8330B	280-93084
280-22000-5	CP36 SD005	T	Solid	8330B	280-93084
280-22000-6	CP37 SD006	T	Solid	8330B	280-93084
280-22000-7	CP38 SD007	T	Solid	8330B	280-93084
280-22000-8	CP39 SD008	T	Solid	8330B	280-93084
280-22000-9	CP40 SD009	T	Solid	8330B	280-93084
280-22000-10	CP41 SD010	T	Solid	8330B	280-93084
280-22000-11	CP41 SD011	T	Solid	8330B	280-93084
280-22000-12	CP42 SD012	T	Solid	8330B	280-93084
280-22000-13	CP43 SD013	T	Solid	8330B	280-93084
280-22000-13MS	Matrix Spike	T	Solid	8330B	280-93084
280-22000-13MSD	Matrix Spike Duplicate	T	Solid	8330B	280-93084
Analysis Batch:280-95320					
LCS 280-94799/2-A	Lab Control Sample	T	Solid	8321B	280-94799
MB 280-94799/1-A	Method Blank	T	Solid	8321B	280-94799
280-22000-1	CP32 SD001	T	Solid	8321B	280-94799
280-22000-2	CP33 SD002	T	Solid	8321B	280-94799
280-22000-3	CP34 SD003	T	Solid	8321B	280-94799
280-22000-4	CP35 SD004	T	Solid	8321B	280-94799
280-22000-5	CP36 SD005	T	Solid	8321B	280-94799
280-22000-6	CP37 SD006	T	Solid	8321B	280-94799
280-22000-7	CP38 SD007	T	Solid	8321B	280-94799
280-22000-8	CP39 SD008	T	Solid	8321B	280-94799
280-22000-9	CP40 SD009	T	Solid	8321B	280-94799
280-22000-10	CP41 SD010	T	Solid	8321B	280-94799
280-22000-11	CP41 SD011	T	Solid	8321B	280-94799
280-22000-12	CP42 SD012	T	Solid	8321B	280-94799
280-22000-13	CP43 SD013	T	Solid	8321B	280-94799
280-22000-13MS	Matrix Spike	T	Solid	8321B	280-94799
280-22000-13MSD	Matrix Spike Duplicate	T	Solid	8321B	280-94799
Analysis Batch:280-95468					
LCS 280-94652/2-A	Lab Control Sample	T	Solid	8321B	280-94652
MB 280-94652/1-A	Method Blank	T	Solid	8321B	280-94652
280-22000-18	MG35 SB123A	T	Solid	8321B	280-94652
280-22000-19	MG35 SB124A	T	Solid	8321B	280-94652
280-22000-19MS	Matrix Spike	T	Solid	8321B	280-94652
280-22000-19MSD	Matrix Spike Duplicate	T	Solid	8321B	280-94652

Client: UXB International, Inc. Job Number: 280-22000-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

General Chemistry

Analysis Batch:280-93110

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
280-22000-1	CP32 SD001	T	Solid	Moisture	
280-22000-2	CP33 SD002	T	Solid	Moisture	
280-22000-3	CP34 SD003	T	Solid	Moisture	
280-22000-4	CP35 SD004	T	Solid	Moisture	
280-22000-5	CP36 SD005	T	Solid	Moisture	
280-22000-6	CP37 SD006	T	Solid	Moisture	
280-22000-7	CP38 SD007	T	Solid	Moisture	
280-22000-8	CP39 SD008	T	Solid	Moisture	
280-22000-9	CP40 SD009	T	Solid	Moisture	
280-22000-10	CP41 SD010	T	Solid	Moisture	
280-22000-11	CP41 SD011	T	Solid	Moisture	
280-22000-12	CP42 SD012	T	Solid	Moisture	
280-22000-13	CP43 SD013	T	Solid	Moisture	

Analysis Batch:280-94527

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
280-22000-18	MG35 SB123A	T	Solid	Moisture	
280-22000-19	MG35 SB124A	T	Solid	Moisture	

Report Basis
T = Total

Client: UXB International, Inc.　　　　Job Number: 280-22000-1

Laboratory Chronicle

Lab ID: 280-22000-1　　**Client ID: CP32 SD001**

Sample Date/Time: 10/22/2011 07:45　　Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-B-1-C		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-B-1-C		280-95320	280-94799	11/08/2011 22:36	1	TAL DEN	AGCM
P:3050B	280-22000-A-1-A		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-1-A		280-95436	280-93880	11/08/2011 23:47	1	TAL DEN	TEL
A:Moisture	280-22000-A-1		280-93110		10/26/2011 07:15	1	TAL DEN	PBB

Lab ID: 280-22000-1 MS　　**Client ID: CP32 SD001**

Sample Date/Time: 10/22/2011 07:45　　Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-22000-A-1-B MS		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-1-B MS		280-95436	280-93880	11/08/2011 23:56	1	TAL DEN	TEL

Lab ID: 280-22000-1 MSD　　**Client ID: CP32 SD001**

Sample Date/Time: 10/22/2011 07:45　　Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-22000-A-1-C MSD		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-1-C MSD		280-95436	280-93880	11/08/2011 23:59	1	TAL DEN	TEL

Lab ID: 280-22000-1 SD　　**Client ID: CP32 SD001**

Sample Date/Time: 10/22/2011 07:45　　Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-22000-A-1-A SD ^5		280-95436	280-93880	11/07/2011 14:00	5	TAL DEN	JM
A:6020A	280-22000-A-1-A SD ^5		280-95436	280-93880	11/08/2011 23:50	5	TAL DEN	TEL
P:3050B	280-22000-A-1-A PDS		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-1-A PDS		280-95436	280-93880	11/08/2011 23:53	1	TAL DEN	TEL

Client: UXB International, Inc. Job Number: 280-22000-1

Laboratory Chronicle

Lab ID: 280-22000-2 **Client ID: CP33 SD002**

Sample Date/Time: 10/22/2011 08:10 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-A-2-D		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-A-2-D		280-95320	280-94799	11/08/2011 22:49	1	TAL DEN	AGCM
P:3050B	280-22000-A-2-C		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-2-C		280-95436	280-93880	11/09/2011 00:02	1	TAL DEN	TEL
A:Moisture	280-22000-B-2		280-93110		10/26/2011 07:15	1	TAL DEN	PBB

Lab ID: 280-22000-3 **Client ID: CP34 SD003**

Sample Date/Time: 10/22/2011 07:55 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-A-3-D		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-A-3-D		280-95320	280-94799	11/08/2011 23:03	1	TAL DEN	AGCM
P:3050B	280-22000-A-3-C		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-3-C		280-95436	280-93880	11/09/2011 00:04	1	TAL DEN	TEL
A:Moisture	280-22000-B-3		280-93110		10/26/2011 07:15	1	TAL DEN	PBB

Lab ID: 280-22000-4 **Client ID: CP35 SD004**

Sample Date/Time: 10/22/2011 08:30 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-A-4-D		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-A-4-D		280-95320	280-94799	11/08/2011 23:17	1	TAL DEN	AGCM
P:3050B	280-22000-A-4-C		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-4-C		280-95436	280-93880	11/09/2011 00:07	1	TAL DEN	TEL
A:Moisture	280-22000-B-4		280-93110		10/26/2011 07:15	1	TAL DEN	PBB

Lab ID: 280-22000-5 **Client ID: CP36 SD005**

Sample Date/Time: 10/22/2011 09:00 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-B-5-C		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-B-5-C		280-95320	280-94799	11/08/2011 23:30	1	TAL DEN	AGCM
P:3050B	280-22000-A-5-A		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-5-A		280-95436	280-93880	11/09/2011 00:19	1	TAL DEN	TEL
A:Moisture	280-22000-A-5		280-93110		10/26/2011 07:15	1	TAL DEN	PBB

TestAmerica Denver A = Analytical Method P = Prep Method

Client: UXB International, Inc. Job Number: 280-22000-1

Laboratory Chronicle

Lab ID: 280-22000-6 **Client ID: CP37 SD006**

Sample Date/Time: 10/22/2011 09:30 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-A-6-D		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-A-6-D		280-95320	280-94799	11/08/2011 23:44	1	TAL DEN	AGCM
P:3050B	280-22000-A-6-C		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-6-C		280-95436	280-93880	11/09/2011 00:22	1	TAL DEN	TEL
A:Moisture	280-22000-B-6		280-93110		10/26/2011 07:15	1	TAL DEN	PBB

Lab ID: 280-22000-7 **Client ID: CP38 SD007**

Sample Date/Time: 10/22/2011 09:40 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-A-7-D		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-A-7-D		280-95320	280-94799	11/08/2011 23:58	1	TAL DEN	AGCM
P:3050B	280-22000-A-7-C		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-7-C		280-95436	280-93880	11/09/2011 00:25	1	TAL DEN	TEL
A:Moisture	280-22000-B-7		280-93110		10/26/2011 07:15	1	TAL DEN	PBB

Lab ID: 280-22000-8 **Client ID: CP39 SD008**

Sample Date/Time: 10/22/2011 09:50 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-B-8-C		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-B-8-C		280-95320	280-94799	11/09/2011 00:11	1	TAL DEN	AGCM
P:3050B	280-22000-A-8-A		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-8-A		280-95436	280-93880	11/09/2011 00:28	1	TAL DEN	TEL
A:Moisture	280-22000-A-8		280-93110		10/26/2011 07:15	1	TAL DEN	PBB

Lab ID: 280-22000-9 **Client ID: CP40 SD009**

Sample Date/Time: 10/22/2011 10:20 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-A-9-D		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-A-9-D		280-95320	280-94799	11/09/2011 00:38	1	TAL DEN	AGCM
P:3050B	280-22000-A-9-C		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-9-C		280-95436	280-93880	11/09/2011 00:31	1	TAL DEN	TEL
A:Moisture	280-22000-B-9		280-93110		10/26/2011 07:15	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-22000-1

Laboratory Chronicle

Lab ID: **280-22000-10** **Client ID:** **CP41 SD010**

Sample Date/Time: 10/22/2011 10:10 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-A-10-D		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-A-10-D		280-95320	280-94799	11/09/2011 00:52	1	TAL DEN	AGCM
P:3050B	280-22000-A-10-C		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-10-C		280-95436	280-93880	11/09/2011 00:34	1	TAL DEN	TEL
A:Moisture	280-22000-B-10		280-93110		10/26/2011 07:15	1	TAL DEN	PBB

Lab ID: **280-22000-11** **Client ID:** **CP41 SD011**

Sample Date/Time: 10/22/2011 10:10 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-A-11-D		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-A-11-D		280-95320	280-94799	11/09/2011 01:05	1	TAL DEN	AGCM
P:3050B	280-22000-A-11-C		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-11-C		280-95436	280-93880	11/09/2011 00:37	1	TAL DEN	TEL
A:Moisture	280-22000-B-11		280-93110		10/26/2011 07:15	1	TAL DEN	PBB

Lab ID: **280-22000-12** **Client ID:** **CP42 SD012**

Sample Date/Time: 10/22/2011 10:30 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-A-12-F		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-A-12-F		280-95320	280-94799	11/09/2011 01:19	1	TAL DEN	AGCM
P:3050B	280-22000-A-12-E		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-12-E		280-95436	280-93880	11/09/2011 00:40	1	TAL DEN	TEL
A:Moisture	280-22000-B-12		280-93110		10/26/2011 07:15	1	TAL DEN	PBB

Lab ID: **280-22000-13** **Client ID:** **CP43 SD013**

Sample Date/Time: 10/22/2011 10:40 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-B-13-C		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-B-13-C		280-95320	280-94799	11/09/2011 01:33	1	TAL DEN	AGCM
P:3050B	280-22000-A-13-A		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	280-22000-A-13-A		280-95436	280-93880	11/09/2011 00:42	1	TAL DEN	TEL
A:Moisture	280-22000-A-13		280-93110		10/26/2011 07:15	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-22000-1

Laboratory Chronicle

Lab ID: 280-22000-13 MS **Client ID: CP43 SD013**

Sample Date/Time: 10/22/2011 10:40 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-B-13-D MS		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-B-13-D MS		280-95320	280-94799	11/09/2011 01:46	1	TAL DEN	AGCM

Lab ID: 280-22000-13 MSD **Client ID: CP43 SD013**

Sample Date/Time: 10/22/2011 10:40 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-B-13-E MSD		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	280-22000-B-13-E MSD		280-95320	280-94799	11/09/2011 02:00	1	TAL DEN	AGCM

Lab ID: 280-22000-18 **Client ID: MG35 SB123A**

Sample Date/Time: 10/20/2011 11:15 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-A-18-B		280-95468	280-94652	11/03/2011 15:20	1	TAL DEN	ACF
A:8321B	280-22000-A-18-B		280-95468	280-94652	11/09/2011 12:30	1	TAL DEN	AGCM
P:3050B	280-22000-A-18-C		280-95436	280-94817	11/08/2011 05:15	1	TAL DEN	CLI
A:6020A	280-22000-A-18-C		280-95436	280-94817	11/08/2011 22:21	1	TAL DEN	TEL
A:Moisture	280-22000-A-18		280-94527		11/03/2011 07:19	1	TAL DEN	PBB

Lab ID: 280-22000-19 **Client ID: MG35 SB124A**

Sample Date/Time: 10/20/2011 11:25 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-A-19-B		280-95468	280-94652	11/03/2011 15:20	1	TAL DEN	ACF
A:8321B	280-22000-A-19-B		280-95468	280-94652	11/09/2011 12:44	1	TAL DEN	AGCM
P:3050B	280-22000-A-19-E		280-95436	280-94817	11/08/2011 05:15	1	TAL DEN	CLI
A:6020A	280-22000-A-19-E		280-95436	280-94817	11/08/2011 22:23	1	TAL DEN	TEL
A:Moisture	280-22000-B-19		280-94527		11/03/2011 07:19	1	TAL DEN	PBB

Lab ID: 280-22000-19 MS **Client ID: MG35 SB124A**

Sample Date/Time: 10/20/2011 11:25 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-A-19-C MS		280-95468	280-94652	11/03/2011 15:20	1	TAL DEN	ACF
A:8321B	280-22000-A-19-C MS		280-95468	280-94652	11/09/2011 12:57	1	TAL DEN	AGCM

Client: UXB International, Inc. Job Number: 280-22000-1

Laboratory Chronicle

Lab ID: **280-22000-19 MSD** **Client ID:** **MG35 SB124A**

Sample Date/Time: 10/20/2011 11:25 Received Date/Time: 10/25/2011 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22000-A-19-D MSD		280-95468	280-94652	11/03/2011 15:20	1	TAL DEN	ACF
A:8321B	280-22000-A-19-D MSD		280-95468	280-94652	11/09/2011 13:11	1	TAL DEN	AGCM

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	MB 280-94799/1-A		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	MB 280-94799/1-A		280-95320	280-94799	11/08/2011 22:08	1	TAL DEN	AGCM
P:8330B	MB 280-94652/1-A		280-95468	280-94652	11/03/2011 15:20	1	TAL DEN	ACF
A:8321B	MB 280-94652/1-A		280-95468	280-94652	11/09/2011 12:03	1	TAL DEN	AGCM
P:3050B	MB 280-94817/1-A		280-95436	280-94817	11/08/2011 05:15	1	TAL DEN	CLI
A:6020A	MB 280-94817/1-A		280-95436	280-94817	11/08/2011 22:15	1	TAL DEN	TEL
P:3050B	MB 280-93880/1-A		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	MB 280-93880/1-A		280-95436	280-93880	11/08/2011 23:41	1	TAL DEN	TEL

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	LCS 280-94799/2-A		280-95320	280-94799	11/04/2011 14:35	1	TAL DEN	ACF
A:8321B	LCS 280-94799/2-A		280-95320	280-94799	11/08/2011 22:22	1	TAL DEN	AGCM
P:8330B	LCS 280-94652/2-A		280-95468	280-94652	11/03/2011 15:20	1	TAL DEN	ACF
A:8321B	LCS 280-94652/2-A		280-95468	280-94652	11/09/2011 12:16	1	TAL DEN	AGCM
P:3050B	LCS 280-94817/2-A		280-95436	280-94817	11/08/2011 05:15	1	TAL DEN	CLI
A:6020A	LCS 280-94817/2-A		280-95436	280-94817	11/08/2011 22:18	1	TAL DEN	TEL
P:3050B	LCS 280-93880/2-A		280-95436	280-93880	11/07/2011 14:00	1	TAL DEN	JM
A:6020A	LCS 280-93880/2-A		280-95436	280-93880	11/08/2011 23:44	1	TAL DEN	TEL

Lab References:
TAL DEN = TestAmerica Denver

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
8321EXcalprim_00007	04/15/12	03/30/11	acn, Lot K06817	10 mL	8231NG_00004	1 mL	Nitroglycerin	10 ug/mL
					8321EX-Mix_00005	0.1 mL	1,3,5-Trinitrobenzene	10.01 ug/mL
							1,3-Dinitrobenzene	10.14 ug/mL
							2,4,6-Trinitrotoluene	10.01 ug/mL
							2,4-Dinitrotoluene	10.03 ug/mL
							2,6-Dinitrotoluene	10.01 ug/mL
							2-Amino-4,6-dinitrotoluene	10.01 ug/mL
							2-Nitrotoluene	9.91 ug/mL
							3-Nitrotoluene	9.88 ug/mL
							4-Amino-2,6-dinitrotoluene	9.87 ug/mL
							4-Nitrotoluene	9.95 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	9.99 ug/mL
							RDX	9.87 ug/mL
							Tetryl	9.94 ug/mL
					8321PETN_00004	1 mL	PETN	9.98 ug/mL
.8231NG_00004	09/13/12		Accustandard, Lot 210091093		(Purchased Reagent)		Nitroglycerin	100 ug/mL
.8321EX-Mix_00005	04/21/12		AccuStandard, Lot 209101177		(Purchased Reagent)		1,3,5-Trinitrobenzene	1001 ug/mL
							1,3-Dinitrobenzene	1014 ug/mL
							2,4,6-Trinitrotoluene	1001 ug/mL
							2,4-Dinitrotoluene	1003 ug/mL
							2,6-Dinitrotoluene	1001 ug/mL
							2-Amino-4,6-dinitrotoluene	1001 ug/mL
							2-Nitrotoluene	991 ug/mL
							3-Nitrotoluene	988 ug/mL
							4-Amino-2,6-dinitrotoluene	987 ug/mL
							4-Nitrotoluene	995 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	999 ug/mL
							RDX	987 ug/mL
							Tetryl	994 ug/mL
.8321PETN_00004	04/15/12		Accustandard, Lot 210041174		(Purchased Reagent)		PETN	99.8 ug/mL
8321expICV_00005	12/22/11	03/30/11	acn:0.1%HAC, Lot K06817	10 mL	EXP-SS-MIX_00003	100 uL	2,6-Dinitrotoluene	10 ug/mL
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							Tetryl	10 ug/mL
					EXP-SS-MIX1_00003	100 uL	1,3,5-Trinitrobenzene	9.99992 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 ug/mL
							2,4-Dinitrotoluene	9.99992 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
					EXP-SS-NG_00004	100 uL	Nitroglycerin	10 ug/mL
					EXP-SS-PETN_00003	100 uL	PETN	10 ug/mL
.EXP-SS-MIX_00003	12/22/11		Restek, Lot A060936		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent Reagent ID	Parent Reagent Volume Added	Analyte	Concentration
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.EXP-SS-MIX1_00003	12/22/11		Restek, Lot A057253		(Purchased Reagent)		1,3,5-Trinitrobenzene	999.992 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	999.992 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.EXP-SS-NG_00004	12/22/11		Restek, Lot A067062		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.EXP-SS-PETN_00003	12/22/11		Restek, Lot A067064		(Purchased Reagent)		PETN	1000 ug/mL
8321ExplosLCS_00011	03/26/12	11/03/11	Acetonitrile, Lot K27815	250 mL	8330 LCSMix2_00038	1 mL	2,6-Dinitrotoluene	4 ug/mL
							2-Amino-4,6-dinitrotoluene	4 ug/mL
							2-Nitrotoluene	4 ug/mL
							3-Nitrotoluene	4 ug/mL
							4-Amino-2,6-dinitrotoluene	4 ug/mL
							4-Nitrotoluene	4 ug/mL
							Tetryl	4 ug/mL
					8330LCSMix1_00038	1 mL	1,3,5-Trinitrobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							2,4,6-Trinitrotoluene	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							HMX	4 ug/mL
							Nitrobenzene	4 ug/mL
							RDX	4 ug/mL
					NG&PETNRestek_00024	0.1 mL	Nitroglycerin	4 ug/mL
							PETN	4 ug/mL
					PicricARestek_00022	0.1 mL	2,4,6-Trinitrophenol	0.4 ug/mL
.8330 LCSMix2_00038	09/30/14		Restek, Lot A069852		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.8330LCSMix1_00038	08/31/13		Restek, Lot A062123		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.NG&PETNRestek_00024	08/30/14		Restek, Lot A083634		(Purchased Reagent)		Nitroglycerin	10000 ug/mL
							PETN	10000 ug/mL
.PicricARestek_00022	02/28/16		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
8321ExplosSur_00017	01/18/12	10/25/11	Acetonitrile, Lot K18824	200 mL	8321NB-D5-1_00004	66 uL	Nitrobenzene-d5	3.95307 ug/mL
.8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
..8321NB-D5_00002	01/20/16	Cambridge Isotope, Lot PR-20474/06199NB1			(Purchased Reagent)		Nitrobenzene-d5	99 %
8321ExplosSur_00018	01/18/12	10/31/11	Acetonitrile, Lot K30811	200 mL	8321NB-D5-1_00004	66 uL	Nitrobenzene-d5	3.95307 ug/mL
.8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
..8321NB-D5_00002	01/20/16	Cambridge Isotope, Lot PR-20474/06199NB1			(Purchased Reagent)		Nitrobenzene-d5	99 %
8321NB-D5-cal_00003	01/18/12	01/19/11	ACN, Lot j48808	10 mL	8321NB-D5-2_00003	1 mL	Nitrobenzene-d5	10.0025 ug/mL
.8321NB-D5-2_00003	01/18/12	01/19/11	ACN, Lot j48808	10 mL	8321NB-D5-1_00004	0.0835 mL	Nitrobenzene-d5	100.025 ug/mL
..8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
...8321NB-D5_00002	01/20/16	Cambridge Isotope, Lot PR-20474/06199NB1			(Purchased Reagent)		Nitrobenzene-d5	99 %
DupontDNTCal_00004	03/01/12	03/16/11	ACN, Lot J48808	10 mL	3,5-dnt stock_00009	0.1 mL	3,5-Dinitrotoluene	10 ug/mL
					Dupont Stock_00002	1 mL	2,3-Dinitrotoluene	9.99791 ug/mL
							3,4-Dinitrotoluene	10.004 ug/mL
.3,5-dnt stock_00009	07/09/20	Accustandard, Lot 210071094			(Purchased Reagent)		3,5-Dinitrotoluene	1000 ug/mL
.Dupont Stock_00002	03/01/12	03/01/11	Acetonitrile, Lot H48808	10 mL	2,3-DNT Prim_00004	229 uL	2,3-Dinitrotoluene	99.9791 ug/mL
					3,4-DNT Prim_00002	235 uL	3,4-Dinitrotoluene	100.04 ug/mL
..2,3-DNT Prim_00004	03/01/12	03/01/11	Acetonitrile, Lot H48808	10 mL	2,3DNT Neat_00001	0.0441 g	2,3-Dinitrotoluene	4365.9 ug/mL
...2,3DNT Neat_00001	10/30/12	Sigma-Aldrich, Lot 2080x			(Purchased Reagent)		2,3-Dinitrotoluene	0.99 g/g
..3,4-DNT Prim_00002	03/01/12	03/01/12	Acetonitrile, Lot H48808	10 mL	3,4-DNT Neat_00001	0.043 g	3,4-Dinitrotoluene	4257 ug/mL
...3,4-DNT Neat_00001	10/30/12	Aldrich, Lot 05713ca			(Purchased Reagent)		3,4-Dinitrotoluene	0.99 g/g
EXPWORKINGIS_00028	12/28/11	10/27/11	Acetonitrile, Lot K18824	10 mL	83212,4DNTIS_00004	0.125 mL	2,4-dinitrotoluene-d3	12.5 ug/mL
					8321HMX13C4IS_00008	0.125 mL	HMX-13C4	12.5 ug/mL
					8321RDX13C3IS_00004	0.125 mL	Hexahydro-1,3,5-trinitro-1,3,5 -triazine 13C3	12.5 ug/mL
					EXPDNBD4IS_00004	0.02 mL	1,3-Dinitrobenzene-d4	12.936 ug/mL
.83212,4DNTIS_00004	05/19/12	Cambridge Isotope, Lot SCBD-008			(Purchased Reagent)		2,4-dinitrotoluene-d3	1000 mg/L
.8321HMX13C4IS_00008	09/11/16	Cambridge Isotope, Lot SCGF-021			(Purchased Reagent)		HMX-13C4	1000 mg/L
.8321RDX13C3IS_00004	03/31/18	Cambridge Isotope, Lot SCIC-005			(Purchased Reagent)		Hexahydro-1,3,5-trinitro-1,3,5 -triazine 13C3	1000 mg/L
.EXPDNBD4IS_00004	12/28/11	12/28/10	Acetonitrile, Lot h38619	10 mL	832113DNBD4IS_00002	0.066 g	1,3-Dinitrobenzene-d4	6468 ug/mL
..832113DNBD4IS_00002	01/16/14	Cambridge Isotope, Lot P-6201			(Purchased Reagent)		1,3-Dinitrobenzene-d4	98 %
MS CAL DAILY_00459	11/09/11	11/08/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
.MS CALSTD-1_00049	09/01/12	Inorganic Ventures, Lot D2-MEB358015			(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12	Inorganic Ventures, Lot E2-MEB378112			(Purchased Reagent)		Antimony	20 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver　　Job No.: 280-22000-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
MS CALSTD-1_00054	10/01/12		Inorganic Ventures, Lot E2-MEB394076		(Purchased Reagent)		Ag	20 mg/L
							As	20 mg/L
							Ba	20 mg/L
							Be	20 mg/L
							Cd	20 mg/L
							Co	20 mg/L
							Copper	20 mg/L
							Cr	20 mg/L
							Lead	20 mg/L
							Mn	20 mg/L
							Nickel	20 mg/L
							Se	20 mg/L
							Th	20 mg/L
							Tl	20 mg/L
							U	20 mg/L
							V	20 mg/L
							Zinc	20 mg/L
MS CALSTD-2_00053	10/01/12		Inorganic Ventures, Lot E2-MEB394077		(Purchased Reagent)		Antimony	20 mg/L
							Mo	20 mg/L
							Sn	20 mg/L
MS CCV_00454	11/09/11	11/08/11	1% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.25 mL	Copper	50 ug/L
							Lead	50 ug/L
							Nickel	50 ug/L
							Zinc	50 ug/L
					MS CALSTD-2_00049	0.25 mL	Antimony	50 ug/L
.MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
MS ICSA_00452	11/09/11	11/08/11	1% HNO3, Lot K23022	50 mL	MS ICSA STOCK_00010	5 mL	Mo	2000 ug/L
.MS ICSA STOCK_00010	10/01/12		Inorganic Ventures, Lot E2-MEB371022		(Purchased Reagent)		Mo	20 mg/L
MS ICSAB_00455	11/09/11	11/08/11	1% HNO3, Lot K23022	10 mL	MS CALSTD-1_00049	0.05 mL	Ag	100 ug/L
							As	100 ug/L
							Ba	100 ug/L
							Be	100 ug/L
							Cd	100 ug/L
							Co	100 ug/L
							Copper	100 ug/L
							Cr	100 ug/L
							Lead	100 ug/L
							Mn	100 ug/L
							Nickel	100 ug/L
							Se	100 ug/L
							Tl	100 ug/L
							U	100 ug/L
							V	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.05 mL	Antimony	100 ug/L

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent Reagent ID	Parent Reagent Volume Added	Analyte	Concentration
							Mo	2100 ug/L
							Sn	100 ug/L
					MS ICSA STOCK_00010	1 mL	Mo	2100 ug/L
.MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Ag	20 mg/L
							As	20 mg/L
							Ba	20 mg/L
							Be	20 mg/L
							Cd	20 mg/L
							Co	20 mg/L
							Copper	20 mg/L
							Cr	20 mg/L
							Lead	20 mg/L
							Mn	20 mg/L
							Nickel	20 mg/L
							Se	20 mg/L
							Tl	20 mg/L
							U	20 mg/L
							V	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
							Mo	20 mg/L
							Sn	20 mg/L
.MS ICSA STOCK_00010	10/01/12		Inorganic Ventures, Lot E2-MEB371022		(Purchased Reagent)		Mo	20 mg/L
MS ICV_00453	11/09/11	11/08/11	1% HNO3, Lot K23022	50 mL	MS ICV-A HP_00004	0.1 mL	Copper	40 ug/L
							Lead	40 ug/L
							Nickel	40 ug/L
							Zinc	40 ug/L
					MS ICV-B HP_00003	0.1 mL	Antimony	40 ug/L
.MS ICV-A HP_00004	03/16/12		HIGH PURITY, Lot 1107415		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS ICV-B HP_00003	03/16/12		HIGH PURITY, Lot 1107417		(Purchased Reagent)		Antimony	20 mg/L
MS LCCV dly_00453	11/09/11	11/08/11	5% HNO3, Lot K23022	100 mL	MS LLCCV1_00004	1 mL	Copper	2 ug/L
							Lead	1 ug/L
							Nickel	2 ug/L
							Zinc	10 ug/L
					MS LLCCV2 IV_00004	1 mL	Antimony	2 ug/L
.MS LLCCV1_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366138		(Purchased Reagent)		Copper	0.2 mg/L
							Lead	0.1 mg/L
							Nickel	0.2 mg/L
							Zinc	1 mg/L
.MS LLCCV2 IV_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366139		(Purchased Reagent)		Antimony	0.2 mg/L
MS PDS 1 IV_00004	12/28/11		Inorganic Ventures, Lot D2-MEB357105		(Purchased Reagent)		Antimony	20 mg/L
MS PDS 2 IV_00007	10/01/12		Inorganic Ventures, Lot E2-MEB391126		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
MS RL STD_00464	11/09/11	11/08/11	1% HNO3, Lot K23022	10 mL	MS CAL DAILY_00459	0.1 mL	Copper	1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent Reagent ID	Parent Reagent Volume Added	Analyte	Concentration
							Lead	1 ug/L
							Nickel	1 ug/L
							Zinc	10 ug/L
							Antimony	1 ug/L
					MS Sn/Zn Mix_00005	0.09 mL	Zinc	10 ug/L
.MS CAL DAILY_00459	11/09/11	11/08/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
..MS CALSTD-1_00049	09/01/12	Inorganic Ventures, Lot D2-MEB358015			(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
..MS CALSTD-2_00049	09/01/12	Inorganic Ventures, Lot E2-MEB378112			(Purchased Reagent)		Antimony	20 mg/L
.MS Sn/Zn Mix_00005	12/01/11	02/16/11	5% HNO3, Lot J11046	50 mL	1000 Zn_00003	0.05 mL	Zinc	1 mg/L
..1000 Zn_00003	12/01/11	Inorganic Ventures, Lot d2-zn02065			(Purchased Reagent)		Zinc	1000 mg/L

Certification Summary

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8321B Explosives

Nitroaromatics and Nitramines (LC/MS/MS) by Method 8321B

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Matrix: Solid   Level: Low

GC Column (1): IonPac   ID: 2 (mm)

Client Sample ID	Lab Sample ID	NBZ	#
CP32 SD001	280-22000-1	75	
CP33 SD002	280-22000-2	80	
CP34 SD003	280-22000-3	92	
CP35 SD004	280-22000-4	80	
CP36 SD005	280-22000-5	91	M
CP37 SD006	280-22000-6	73	M
CP38 SD007	280-22000-7	92	
CP39 SD008	280-22000-8	88	
CP40 SD009	280-22000-9	85	
CP41 SD010	280-22000-10	81	M
CP41 SD011	280-22000-11	82	
CP42 SD012	280-22000-12	80	
CP43 SD013	280-22000-13	80	
MG35 SB123A	280-22000-18	82	
MG35 SB124A	280-22000-19	80	
	MB 280-94652/1-A	77	
	MB 280-94799/1-A	97	
	LCS 280-94652/2-A	78	
	LCS 280-94799/2-A	87	
CP43 SD013 MS	280-22000-13 MS	85	
MG35 SB124A MS	280-22000-19 MS	81	
CP43 SD013 MSD	280-22000-13 MSD	79	
MG35 SB124A MSD	280-22000-19 MSD	77	

	QC LIMITS
NBZ = Nitrobenzene-d5	68-140

Column to be used to flag recovery values

FORM II 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41K07197.d

Lab ID: LCS 280-94652/2-A   Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.381	0.271	71	45-142	
1,3-Dinitrobenzene	0.381	0.351	92	74-130	
2,4,6-Trinitrotoluene	0.381	0.376	99	60-135	
2,4-Dinitrotoluene	0.381	0.333	87	63-130	
2,6-Dinitrotoluene	0.381	0.321	84	65-133	
2-Amino-4,6-dinitrotoluene	0.381	0.344	90	51-148	
2-Nitrotoluene	0.381	0.348	91	59-150	
3-Nitrotoluene	0.381	0.342	90	56-154	
4-Amino-2,6-dinitrotoluene	0.381	0.352	92	60-141	
4-Nitrotoluene	0.381	0.355	93	72-145	
HMX	0.381	0.338	89	48-131	
Nitrobenzene	0.381	0.345	91	70-140	
Nitroglycerin	0.381	0.282	74	27-146	
PETN	0.381	0.273	72	31-171	
RDX	0.381	0.364	95	69-130	
Tetryl	0.381	0.364	95	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41K07136.d

Lab ID: LCS 280-94799/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.365	0.301	82	45-142	
1,3-Dinitrobenzene	0.365	0.368	101	74-130	
2,4,6-Trinitrotoluene	0.365	0.225	62	60-135	
2,4-Dinitrotoluene	0.365	0.353	97	63-130	
2,6-Dinitrotoluene	0.365	0.307	84	65-133	
2-Amino-4,6-dinitrotoluene	0.365	0.397	109	51-148	
2-Nitrotoluene	0.365	0.297	82	59-150	
3-Nitrotoluene	0.365	0.295	81	56-154	
4-Amino-2,6-dinitrotoluene	0.365	0.323	89	60-141	
4-Nitrotoluene	0.365	0.292	80	72-145	
HMX	0.365	0.343	94	48-131	
Nitrobenzene	0.365	0.350	96	70-140	
Nitroglycerin	0.365	0.286	78	27-146	
PETN	0.365	0.291	80	31-171	
RDX	0.365	0.353	97	69-130	
Tetryl	0.365	0.197	54	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Matrix: Solid   Level: Low   Lab File ID: ex41K07151.d

Lab ID: 280-22000-13 MS   Client ID: CP43 SD013 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.399	0.025 U	0.303	76	45-142	
1,3-Dinitrobenzene	0.399	0.012 U	0.403	101	74-130	
2,4,6-Trinitrotoluene	0.399	0.012 U	0.241	60	60-135	
2,4-Dinitrotoluene	0.399	0.012 U	0.357	89	63-130	
2,6-Dinitrotoluene	0.399	0.025 U	0.351	88	65-133	
2-Amino-4,6-dinitrotoluene	0.399	0.025 U	0.460	115	51-148	
2-Nitrotoluene	0.399	0.012 U	0.418	105	59-150	
3-Nitrotoluene	0.399	0.025 U	0.432	108	56-154	
4-Amino-2,6-dinitrotoluene	0.399	0.012 U	0.412	103	60-141	
4-Nitrotoluene	0.399	0.025 U	0.441	110	72-145	
HMX	0.399	0.012 U	0.332	83	48-131	
Nitrobenzene	0.399	0.012 U	0.376	94	70-140	
Nitroglycerin	0.399	0.012 U	0.329	82	27-146	
PETN	0.399	0.012 U	0.317	79	31-171	
RDX	0.399	0.012 U	0.373	93	69-130	
Tetryl	0.399	0.012 U	0.219	55	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41K07200.d

Lab ID: 280-22000-19 MS Client ID: MG35 SB124A MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.395	0.025 U	0.308	78	45-142	
1,3-Dinitrobenzene	0.395	0.012 U	0.377	95	74-130	
2,4,6-Trinitrotoluene	0.395	0.012 U	0.338	86	60-135	
2,4-Dinitrotoluene	0.395	0.012 U	0.374	95	63-130	
2,6-Dinitrotoluene	0.395	0.025 U	0.347	88	65-133	
2-Amino-4,6-dinitrotoluene	0.395	0.025 U	0.394	100	51-148	
2-Nitrotoluene	0.395	0.012 U	0.346	88	59-150	
3-Nitrotoluene	0.395	0.025 U	0.339	86	56-154	
4-Amino-2,6-dinitrotoluene	0.395	0.012 U	0.337	85	60-141	
4-Nitrotoluene	0.395	0.025 U	0.350	89	72-145	
HMX	0.395	0.012 U	0.309	78	48-131	
Nitrobenzene	0.395	0.012 U	0.348	88	70-140	
Nitroglycerin	0.395	0.012 U	0.334	85	27-146	
PETN	0.395	0.012 U	0.308	78	31-171	
RDX	0.395	0.012 U	0.354	90	69-130	
Tetryl	0.395	0.012 U	0.399	101	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41K07152.d

Lab ID: 280-22000-13 MSD Client ID: CP43 SD013 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.391	0.286	73	6	70	45-142	
1,3-Dinitrobenzene	0.391	0.343	88	16	25	74-130	
2,4,6-Trinitrotoluene	0.391	0.223	57	8	25	60-135	J
2,4-Dinitrotoluene	0.391	0.321	82	11	25	63-130	
2,6-Dinitrotoluene	0.391	0.314	80	11	25	65-133	
2-Amino-4,6-dinitrotoluene	0.391	0.369	94	22	25	51-148	
2-Nitrotoluene	0.391	0.328	84	24	45	59-150	
3-Nitrotoluene	0.391	0.351	90	21	25	56-154	
4-Amino-2,6-dinitrotoluene	0.391	0.352	90	16	48	60-141	
4-Nitrotoluene	0.391	0.357	91	21	25	72-145	
HMX	0.391	0.318	81	4	25	48-131	
Nitrobenzene	0.391	0.344	88	9	25	70-140	
Nitroglycerin	0.391	0.318	81	3	92	27-146	
PETN	0.391	0.276	70	14	40	31-171	
RDX	0.391	0.366	94	2	25	69-130	
Tetryl	0.391	0.194	50	12	50	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41K07201.d

Lab ID: 280-22000-19 MSD Client ID: MG35 SB124A MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,3,5-Trinitrobenzene	0.366	0.267	73	14	70	45-142	
1,3-Dinitrobenzene	0.366	0.317	87	17	25	74-130	
2,4,6-Trinitrotoluene	0.366	0.302	83	11	25	60-135	
2,4-Dinitrotoluene	0.366	0.329	90	13	25	63-130	
2,6-Dinitrotoluene	0.366	0.322	88	8	25	65-133	
2-Amino-4,6-dinitrotoluene	0.366	0.328	90	18	25	51-148	
2-Nitrotoluene	0.366	0.328	90	5	45	59-150	
3-Nitrotoluene	0.366	0.310	85	9	25	56-154	
4-Amino-2,6-dinitrotoluene	0.366	0.329	90	2	48	60-141	
4-Nitrotoluene	0.366	0.322	88	8	25	72-145	
HMX	0.366	0.298	81	4	25	48-131	
Nitrobenzene	0.366	0.314	86	10	25	70-140	
Nitroglycerin	0.366	0.283	78	16	92	27-146	
PETN	0.366	0.288	79	7	40	31-171	
RDX	0.366	0.341	93	4	25	69-130	
Tetryl	0.366	0.317	87	23	50	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Lab File ID: ex41K07196.d   Lab Sample ID: MB 280-94652/1-A

Matrix: Solid   Date Extracted: 11/03/2011 15:20

Instrument ID: LC_LCMS4   Date Analyzed: 11/09/2011 12:03

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-94652/2-A	ex41K07197.d	11/09/2011 12:16
MG35 SB123A	280-22000-18	ex41K07198.d	11/09/2011 12:30
MG35 SB124A	280-22000-19	ex41K07199.d	11/09/2011 12:44
MG35 SB124A MS	280-22000-19 MS	ex41K07200.d	11/09/2011 12:57
MG35 SB124A MSD	280-22000-19 MSD	ex41K07201.d	11/09/2011 13:11

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Lab File ID: ex41K07135.d   Lab Sample ID: MB 280-94799/1-A

Matrix: Solid   Date Extracted: 11/04/2011 14:35

Instrument ID: LC_LCMS4   Date Analyzed: 11/08/2011 22:08

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-94799/2-A	ex41K07136.d	11/08/2011 22:22
CP32 SD001	280-22000-1	ex41K07137.d	11/08/2011 22:36
CP33 SD002	280-22000-2	ex41K07138.d	11/08/2011 22:49
CP34 SD003	280-22000-3	ex41K07139.d	11/08/2011 23:03
CP35 SD004	280-22000-4	ex41K07140.d	11/08/2011 23:17
CP36 SD005	280-22000-5	ex41K07141.d	11/08/2011 23:30
CP37 SD006	280-22000-6	ex41K07142.d	11/08/2011 23:44
CP38 SD007	280-22000-7	ex41K07143.d	11/08/2011 23:58
CP39 SD008	280-22000-8	ex41K07144.d	11/09/2011 00:11
CP40 SD009	280-22000-9	ex41K07146.d	11/09/2011 00:38
CP41 SD010	280-22000-10	ex41K07147.d	11/09/2011 00:52
CP41 SD011	280-22000-11	ex41K07148.d	11/09/2011 01:05
CP42 SD012	280-22000-12	ex41K07149.d	11/09/2011 01:19
CP43 SD013	280-22000-13	ex41K07150.d	11/09/2011 01:33
CP43 SD013 MS	280-22000-13 MS	ex41K07151.d	11/09/2011 01:46
CP43 SD013 MSD	280-22000-13 MSD	ex41K07152.d	11/09/2011 02:00

FORM IV 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 11/07/2011 15:53

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 11/07/2011 17:14

Calibration ID: 7733

		HXC4		HHTT		DNB4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		748193	2.06	2505028	3.01	1408734	4.92
UPPER LIMIT		1496386	2.56	5010056	3.51	2817468	5.42
LOWER LIMIT		374097	1.56	1252514	2.51	704367	4.42
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 280-95155/8		965609	2.06	3071737	3.03	1771860	4.91
ICV 280-95155/10		792969	2.06	2749211	2.99	1635598	4.91
CCV 280-95320/130		851512	2.06	2903580	3.03	1874050	4.95
MB 280-94799/1-A		926087	2.06	2964930	3.03	1742132	4.95
LCS 280-94799/2-A		628622	2.06	2447204	3.03	1796843	4.95
280-22000-1	CP32 SD001	972028	2.06	3439275	3.03	1930607	4.95
280-22000-2	CP33 SD002	1039346	2.06	3081555	3.03	1911725	4.99
280-22000-3	CP34 SD003	1068577	2.06	3297983	3.03	1632230	4.99
280-22000-4	CP35 SD004	866382	2.06	3036203	3.03	1931241	4.95
280-22000-5	CP36 SD005	1088743	2.06	3412010	3.03	1771951	4.99
280-22000-6	CP37 SD006	982088	2.06	3247146	3.03	2042415	4.99
280-22000-7	CP38 SD007	837656	2.06	2677703	3.03	1697586	4.95
280-22000-8	CP39 SD008	961545	2.06	3444194	3.03	1632254	4.95
CCV 280-95320/141		852387	2.06	2955589	3.03	1846378	4.95
280-22000-9	CP40 SD009	984646	2.06	3409122	3.03	2010286	4.95
280-22000-10	CP41 SD010	921225	2.06	3165587	3.03	1802952	4.95
280-22000-11	CP41 SD011	837728	2.06	2874503	3.03	1610154	4.95
280-22000-12	CP42 SD012	656737	2.06	2850563	3.03	1660448	4.95
280-22000-13	CP43 SD013	980908	2.06	3358104	3.03	1835972	4.95
280-22000-13 MS	CP43 SD013 MS	789386	2.06	2717443	3.03	1831228	4.95
280-22000-13 MSD	CP43 SD013 MSD	736803	2.06	2764015	3.03	1923552	4.95
CCV 280-95320/150		1012284	2.06	3205903	3.03	1841148	4.91
CCV 280-95468/190		935274	2.06	3139935	3.03	1746445	4.91
MB 280-94652/1-A		998537	2.06	3384873	3.03	1706010	4.91
LCS 280-94652/2-A		736729	2.06	2652493	3.03	1827045	4.91
280-22000-18	MG35 SB123A	934068	2.06	3088412	3.03	1744461	4.95
280-22000-19	MG35 SB124A	926425	2.06	3103569	3.03	1929664	4.91
280-22000-19 MS	MG35 SB124A MS	887879	2.06	2955816	3.03	1880288	4.91
280-22000-19 MSD	MG35 SB124A MSD	830303	2.06	2942088	3.03	2016336	4.91
CCV 280-95468/197		765709	2.06	2635471	2.99	1562064	4.91

HXC4 = HMX-13C4
HHTT = Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3
DNB4 = 1,3-Dinitrobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Instrument ID: LC_LCMS4 Calibration Start Date: 11/07/2011 15:53

GC Column: IonPac ID: 2(mm) Calibration End Date: 11/07/2011 17:14

Calibration ID: 7733

		DNT3					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		4344942	7.12				
UPPER LIMIT		8689884	7.62				
LOWER LIMIT		2172471	6.62				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 280-95155/8		5968905	7.14				
ICV 280-95155/10		4604530	7.14				
CCV 280-95320/130		4990178	7.17				
MB 280-94799/1-A		5066072	7.17				
LCS 280-94799/2-A		5692750	7.20				
280-22000-1	CP32 SD001	5110179	7.17				
280-22000-2	CP33 SD002	4831774	7.23				
280-22000-3	CP34 SD003	5296127	7.23				
280-22000-4	CP35 SD004	5261229	7.23				
280-22000-5	CP36 SD005	5200921	7.23				
280-22000-6	CP37 SD006	5598763	7.23				
280-22000-7	CP38 SD007	4425772	7.20				
280-22000-8	CP39 SD008	4472505	7.20				
CCV 280-95320/141		4920877	7.20				
280-22000-9	CP40 SD009	5123033	7.20				
280-22000-10	CP41 SD010	5096959	7.20				
280-22000-11	CP41 SD011	4310849	7.20				
280-22000-12	CP42 SD012	4600553	7.20				
280-22000-13	CP43 SD013	5446938	7.20				
280-22000-13 MS	CP43 SD013 MS	4995855	7.20				
280-22000-13 MSD	CP43 SD013 MSD	5621568	7.20				
CCV 280-95320/150		4301575	7.17				
CCV 280-95468/190		4892716	7.14				
MB 280-94652/1-A		4834412	7.14				
LCS 280-94652/2-A		5348154	7.14				
280-22000-18	MG35 SB123A	4900444	7.14				
280-22000-19	MG35 SB124A	5834690	7.14				
280-22000-19 MS	MG35 SB124A MS	5416669	7.14				
280-22000-19 MSD	MG35 SB124A MSD	5377786	7.11				
CCV 280-95468/197		4655153	7.11				

DNT3 = 2,4-dinitrotoluene-d3

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver — Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP32 SD001 — Lab Sample ID: 280-22000-1

Matrix: Solid — Lab File ID: ex41K07137.d

Analysis Method: 8321B — Date Collected: 10/22/2011 07:45

Extraction Method: 8330B — Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.67(g) — Date Analyzed: 11/08/2011 22:36

Con. Extract Vol.: 40(mL) — Dilution Factor: 1

Injection Volume: 40(uL) — GC Column: IonPac ID: 2(mm)

% Moisture: — GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320 — Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.094	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.094	0.012	0.0067
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.094	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.094	0.012	0.0077
606-20-2	2,6-Dinitrotoluene	0.023	U	0.094	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.094	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.094	0.012	0.0054
99-08-1	3-Nitrotoluene	0.023	U	0.094	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.094	0.012	0.0048
99-99-0	4-Nitrotoluene	0.023	U	0.094	0.023	0.010
2691-41-0	HMX	0.012	U	0.094	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.094	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.094	0.012	0.0098
78-11-5	PETN	0.012	U	0.094	0.012	0.0048
121-82-4	RDX	0.012	U	0.094	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.094	0.012	0.0071

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	75		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07137.d		
Lims ID:	280-22000-B-1-C	Client ID:	CP32 SD001
Inject. Date:	08-Nov-2011 22:36:25	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-B-1-C 280-0002728-133		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	120
Lims Batch ID:	95320	Lims Sample ID:	133
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:48	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	09-Nov-2011 06:40:25

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		972028	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3439275	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1930607	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.506	-0.034	1.105	703918	73.9			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.201	-0.031		5110179	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										
4	137.0		8.223							
23 p-Nitrotoluene										
4	137.0		8.770							
24 m-Nitrotoluene										
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

QC Flag Legend

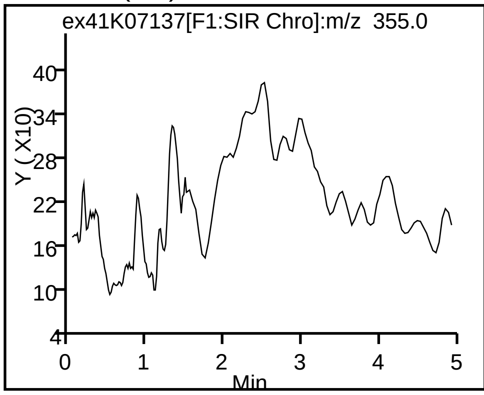
Processing Flags
1 - Missing Peaks

Report Date: 09-Nov-2011 06:55:51 Chrom Revision: 1.2 13-Jul-2011 10:43:06

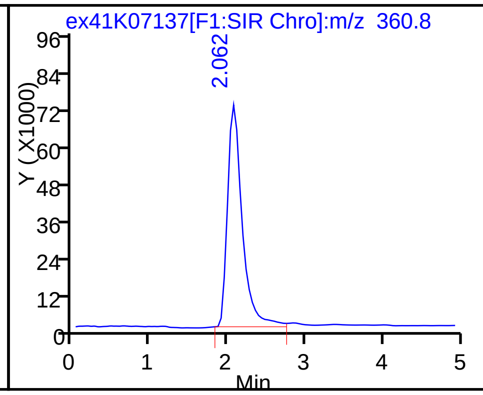
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07137.d

Injection Date:	08-Nov-2011 22:36:25	Limit Group:	LC - 8321A Expl
Client ID:	CP32 SD001	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	133
Operator ID:		Injection Vol:	40.00 ul

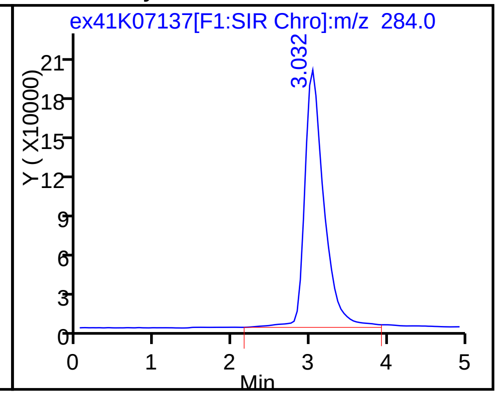
2 HMX (ND)



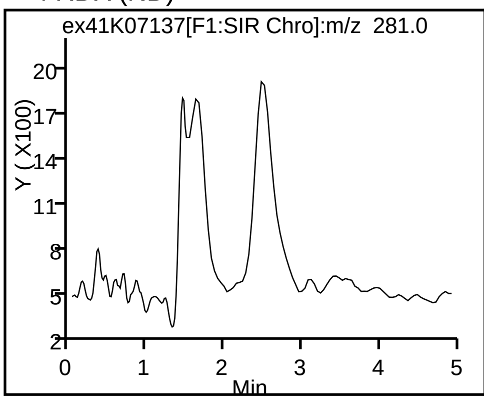
* 1 HMX-13C4



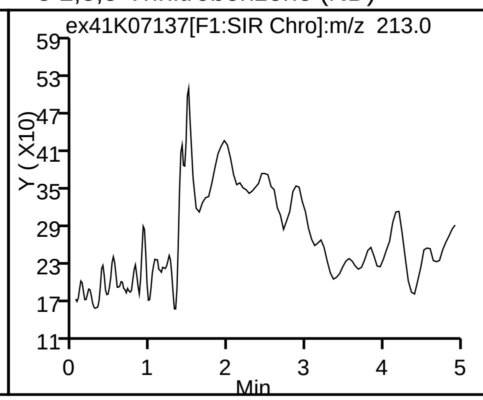
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



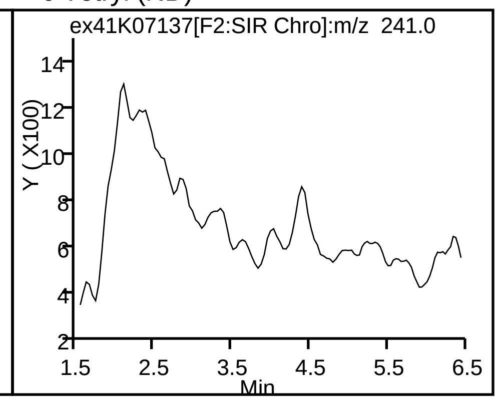
4 RDX (ND)



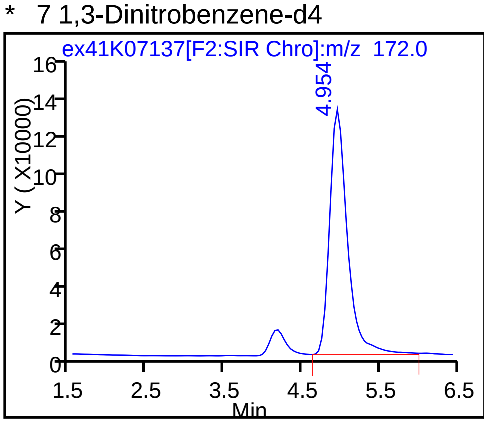
5 1,3,5-Trinitrobenzene (ND)



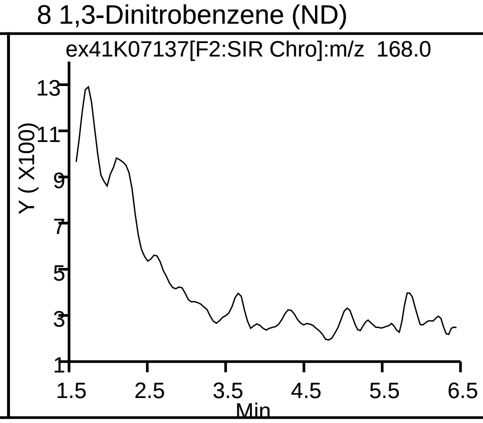
6 Tetryl (ND)



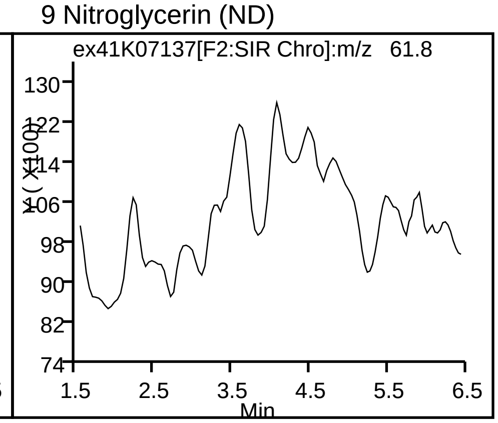
* 7 1,3-Dinitrobenzene-d4



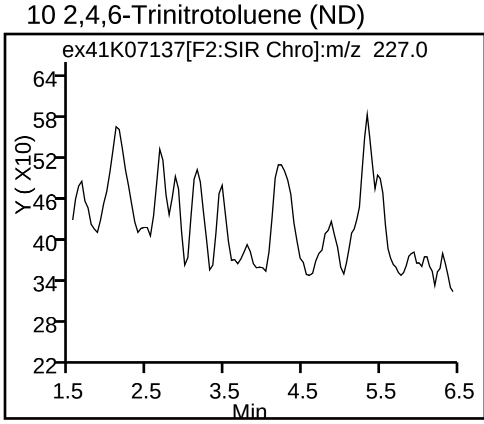
8 1,3-Dinitrobenzene (ND)



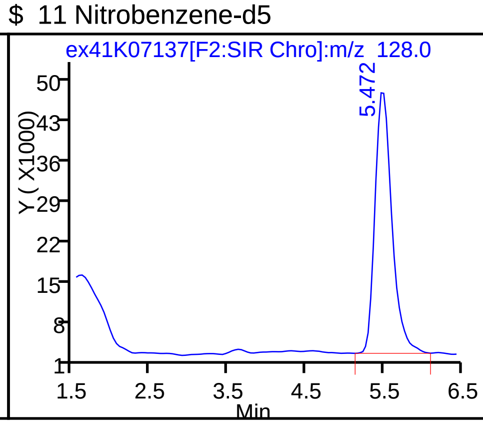
9 Nitroglycerin (ND)



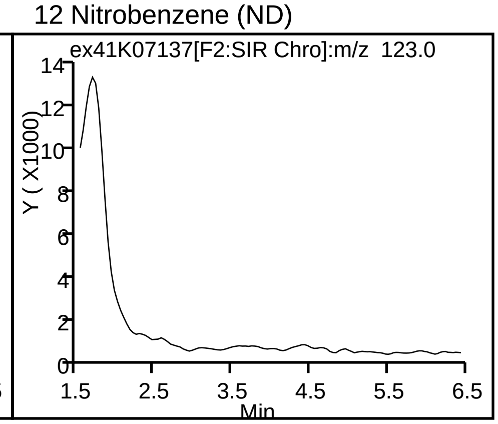
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

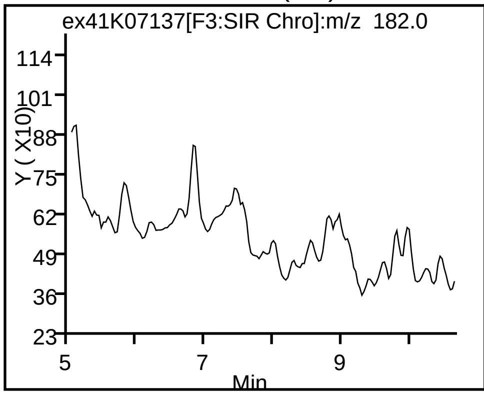


12 Nitrobenzene (ND)

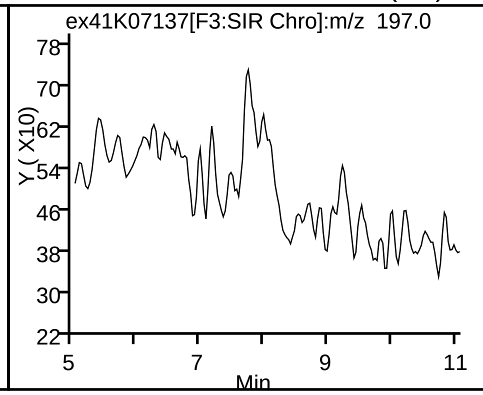


Report Date: 09-Nov-2011 06:55:51 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07137.d

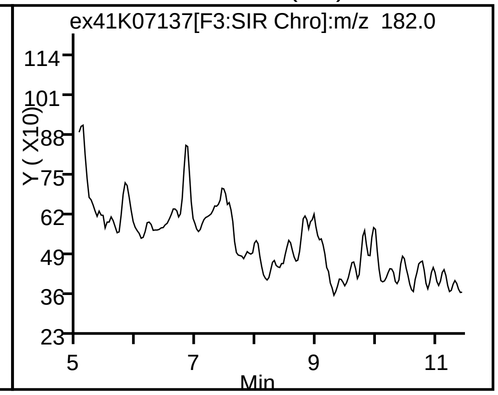
13 3,4-Dinitrotoluene (ND)



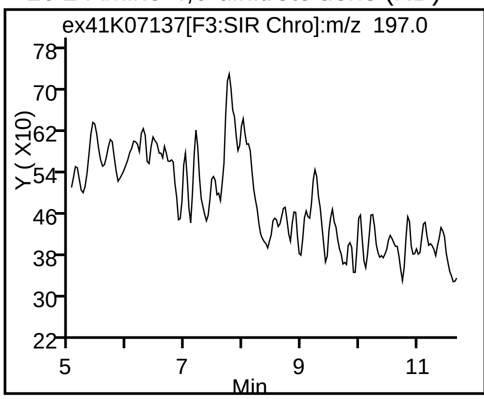
14 4-Amino-2,6-dinitrotoluene (ND)



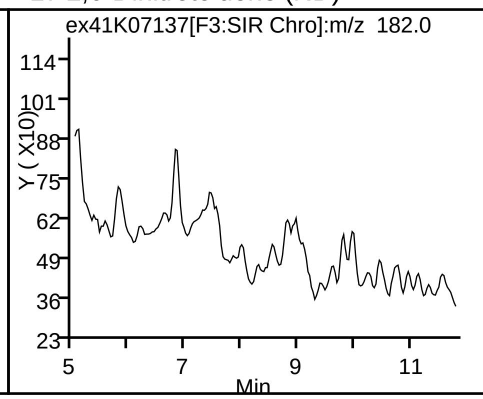
15 2,3-Dinitrotoluene (ND)



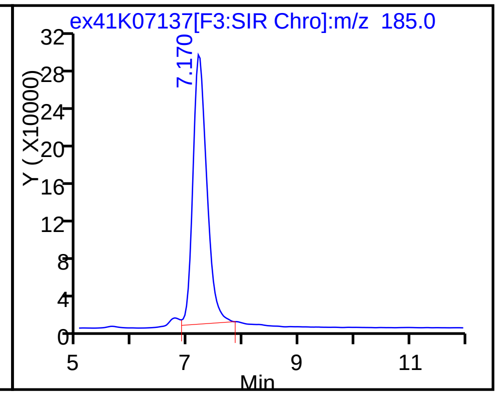
16 2-Amino-4,6-dinitrotoluene (ND)



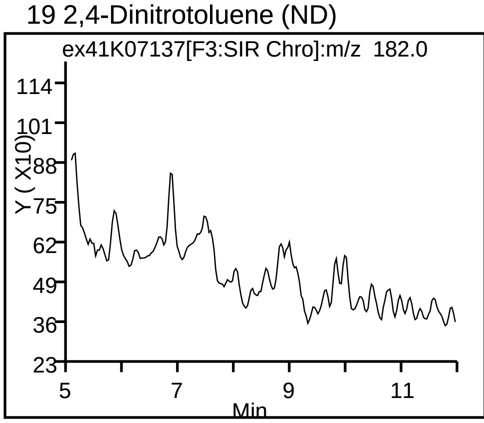
17 2,6-Dinitrotoluene (ND)



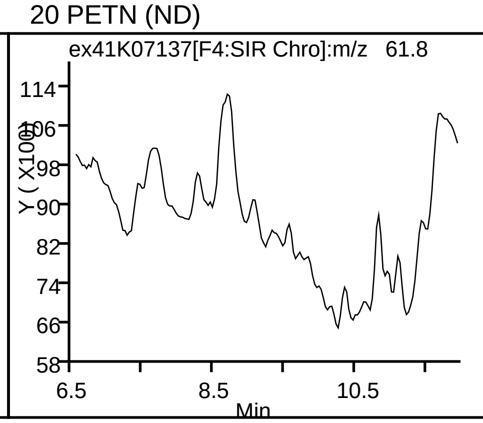
* 18 2,4-dinitrotoluene-d3



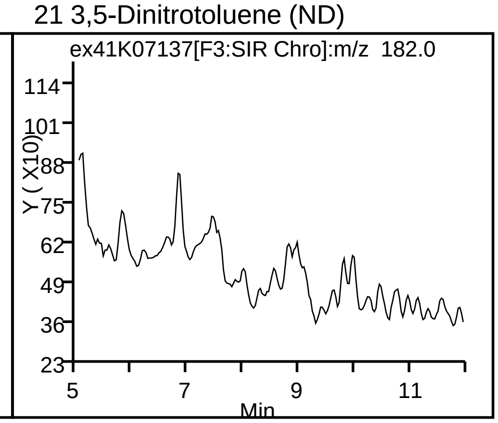
19 2,4-Dinitrotoluene (ND)



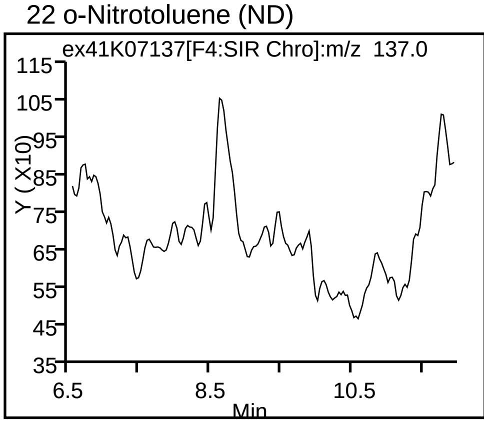
20 PETN (ND)



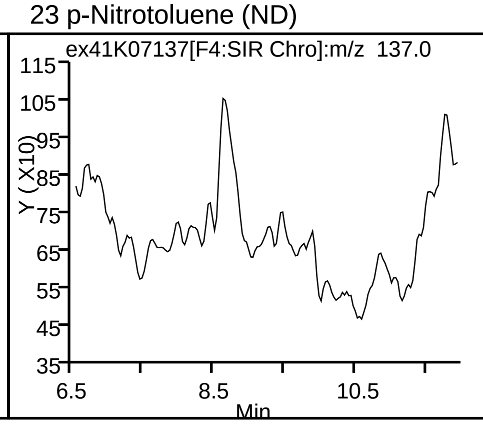
21 3,5-Dinitrotoluene (ND)



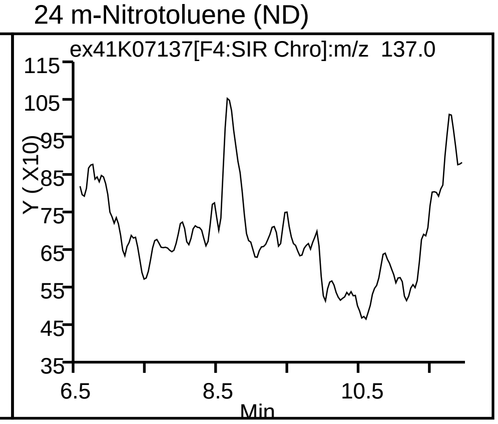
22 o-Nitrotoluene (ND)



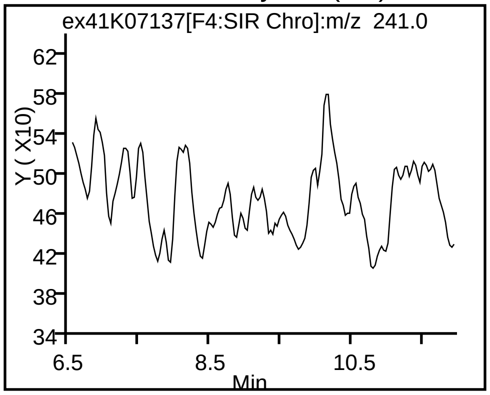
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP33 SD002 | Lab Sample ID: 280-22000-2

Matrix: Solid | Lab File ID: ex41K07138.d

Analysis Method: 8321B | Date Collected: 10/22/2011 08:10

Extraction Method: 8330B | Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.96(g) | Date Analyzed: 11/08/2011 22:49

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.091	0.023	0.011
99-65-0	1,3-Dinitrobenzene	0.011	U	0.091	0.011	0.0065
118-96-7	2,4,6-Trinitrotoluene	0.011	U	0.091	0.011	0.0046
121-14-2	2,4-Dinitrotoluene	0.011	U	0.091	0.011	0.0075
606-20-2	2,6-Dinitrotoluene	0.023	U	0.091	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.091	0.023	0.011
88-72-2	2-Nitrotoluene	0.011	U	0.091	0.011	0.0052
99-08-1	3-Nitrotoluene	0.023	U	0.091	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.011	U	0.091	0.011	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.091	0.023	0.010
2691-41-0	HMX	0.011	U	0.091	0.011	0.0053
98-95-3	Nitrobenzene	0.011	U	0.091	0.011	0.0099
55-63-0	Nitroglycerin	0.011	U	0.091	0.011	0.0096
78-11-5	PETN	0.011	U	0.091	0.011	0.0047
121-82-4	RDX	0.011	U	0.091	0.011	0.0039
479-45-8	Tetryl	0.011	U	0.091	0.011	0.0069

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07138.d		
Lims ID:	280-22000-A-2-D	Client ID:	CP33 SD002
Inject. Date:	08-Nov-2011 22:49:58	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-A-2-D 280-0002728-134		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	10
Lims Batch ID:	95320	Lims Sample ID:	134
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:48	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		1039346	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3081555	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1911725	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	745085	79.2			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.459							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.806							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.201	0.030		4831774	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									
4	61.8		7.707							
21	3,5-Dinitrotoluene									1
3	182.0		7.839							
22	o-Nitrotoluene									1
4	137.0		8.223							
23	p-Nitrotoluene									1
4	137.0		8.770							
24	m-Nitrotoluene									
4	137.0		9.408							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.319							

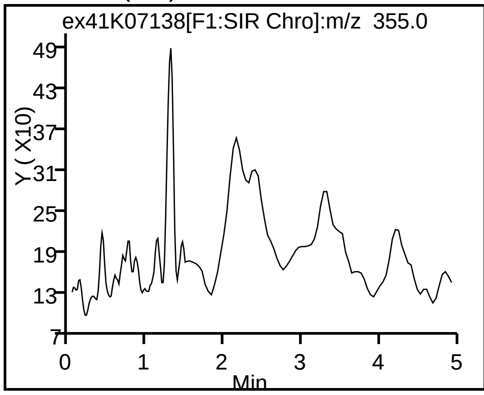
QC Flag Legend

Processing Flags
1 - Missing Peaks

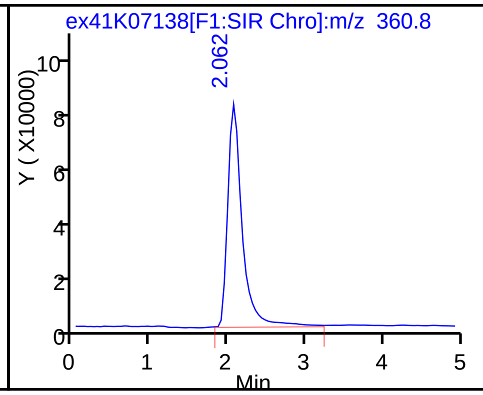
Report Date: 09-Nov-2011 06:55:52 | Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07138.d		
Injection Date:	08-Nov-2011 22:49:58	Limit Group:	LC - 8321A Expl
Client ID:	CP33 SD002	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	134
Operator ID:		Injection Vol:	40.00 ul

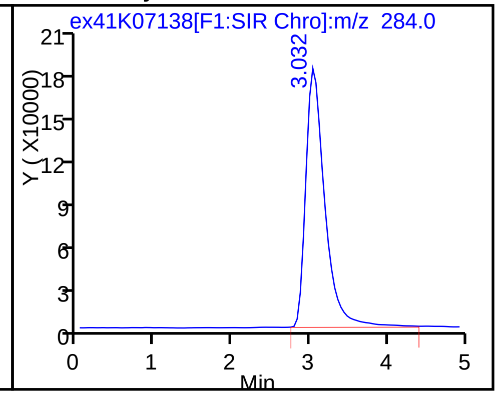
2 HMX (ND)



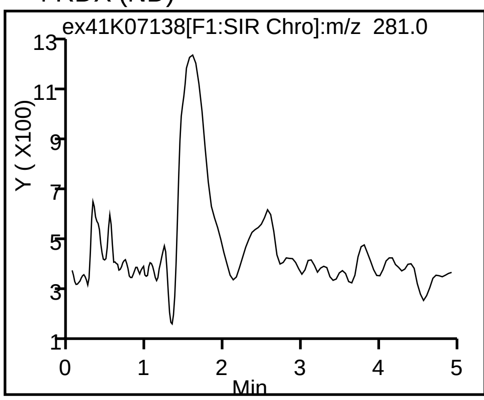
* 1 HMX-13C4



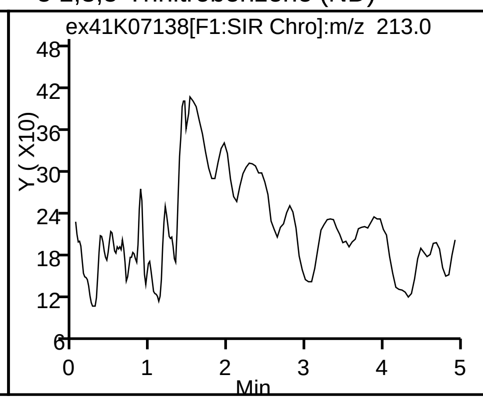
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



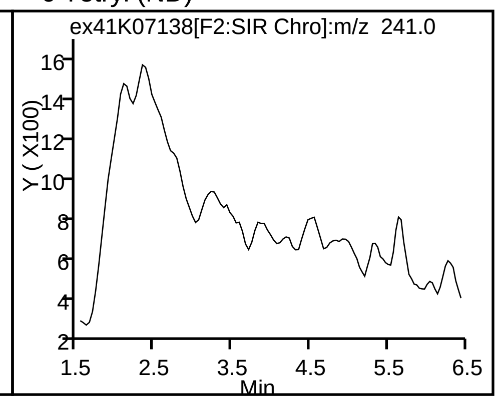
4 RDX (ND)



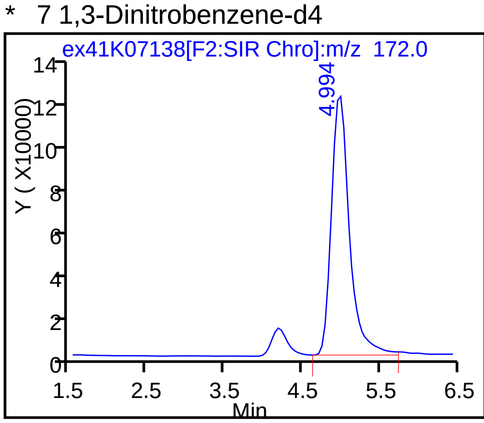
5 1,3,5-Trinitrobenzene (ND)



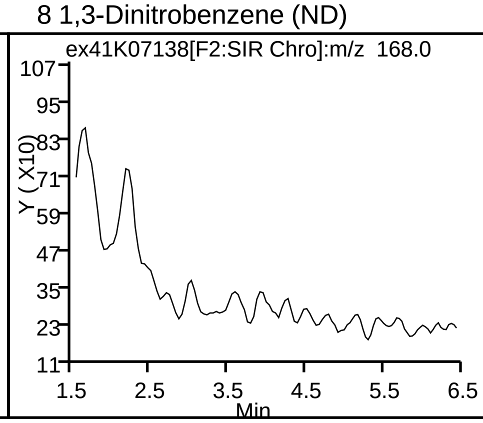
6 Tetryl (ND)



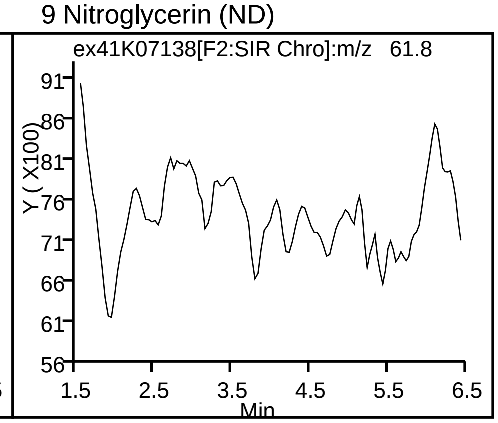
* 7 1,3-Dinitrobenzene-d4



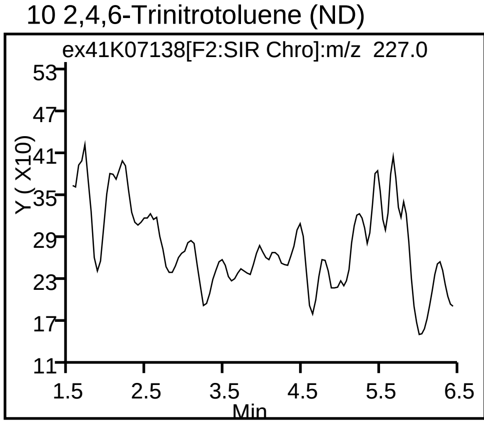
8 1,3-Dinitrobenzene (ND)



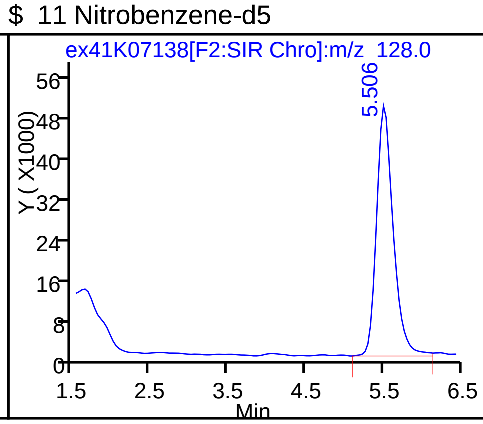
9 Nitroglycerin (ND)



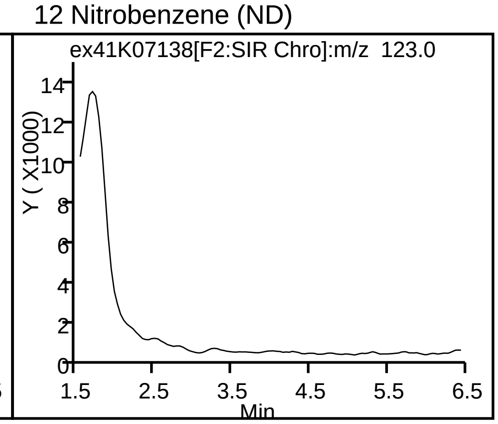
10 2,4,6-Trinitrotoluene (ND)



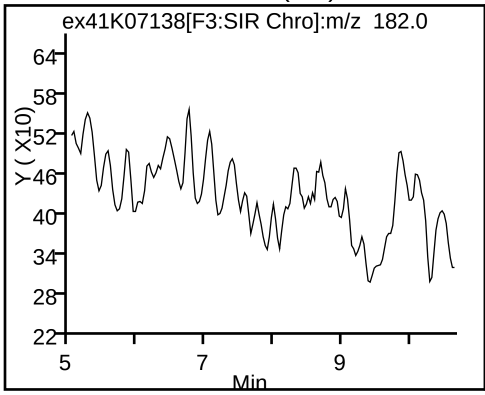
$ 11 Nitrobenzene-d5



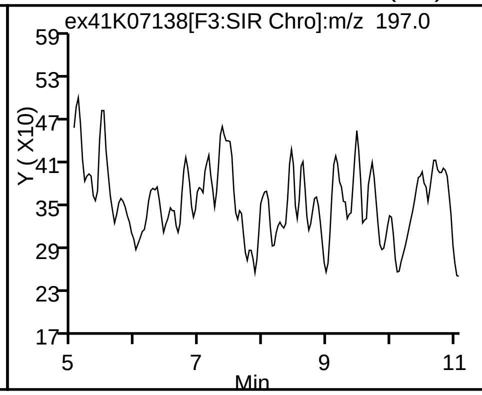
12 Nitrobenzene (ND)



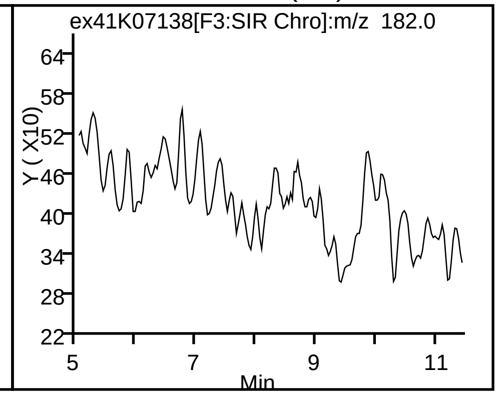
13 3,4-Dinitrotoluene (ND)



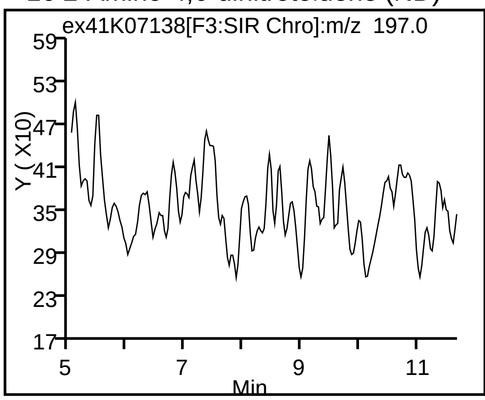
14 4-Amino-2,6-dinitrotoluene (ND)



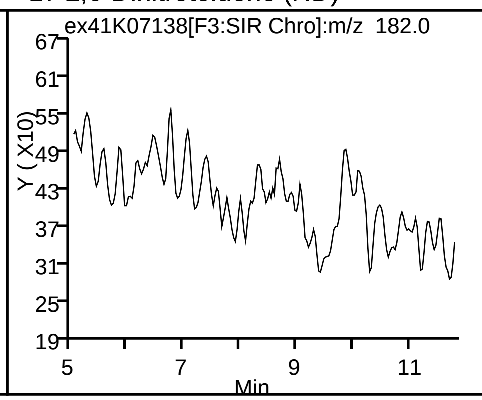
15 2,3-Dinitrotoluene (ND)



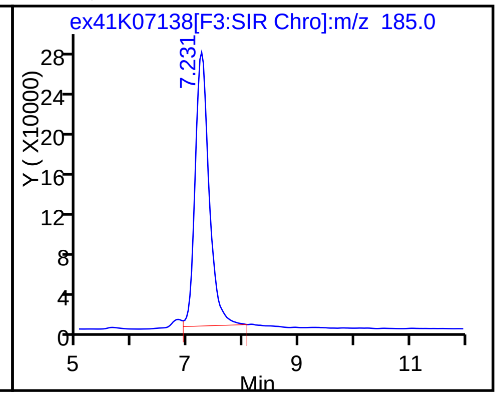
16 2-Amino-4,6-dinitrotoluene (ND)



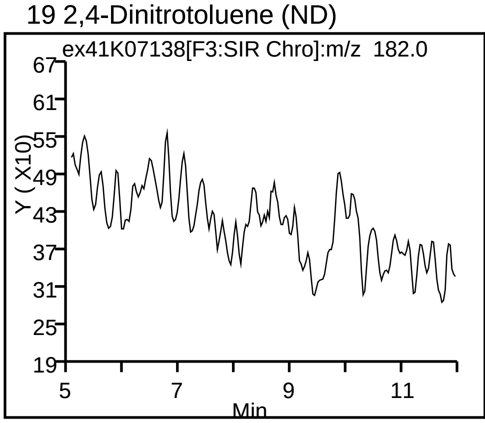
17 2,6-Dinitrotoluene (ND)



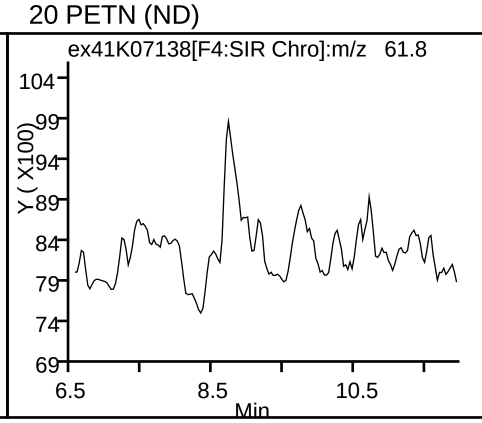
* 18 2,4-dinitrotoluene-d3



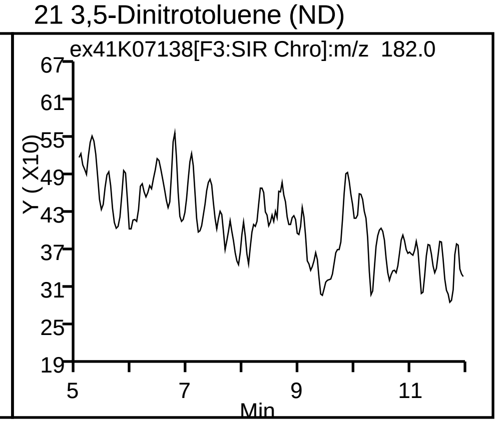
19 2,4-Dinitrotoluene (ND)



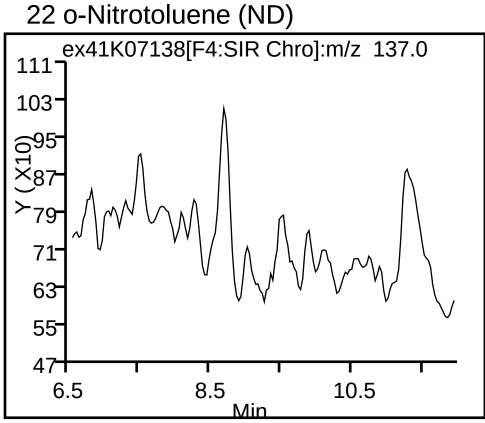
20 PETN (ND)



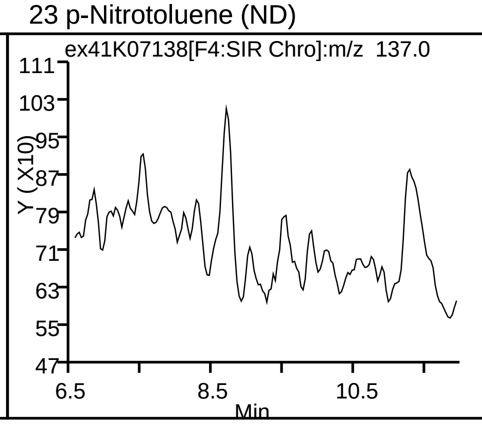
21 3,5-Dinitrotoluene (ND)



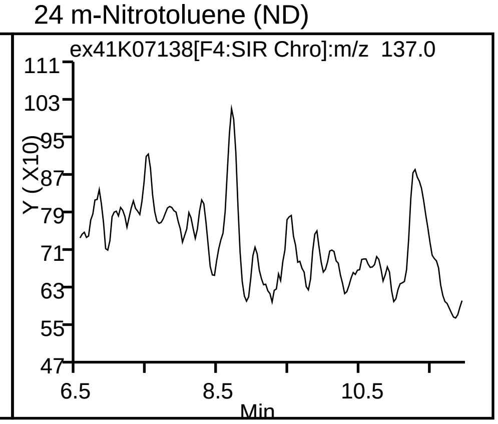
22 o-Nitrotoluene (ND)



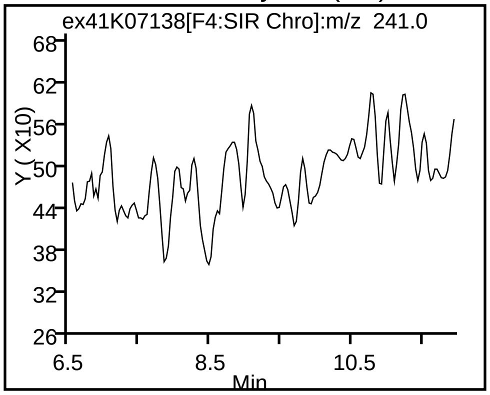
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP34 SD003 | Lab Sample ID: 280-22000-3

Matrix: Solid | Lab File ID: ex41K07139.d

Analysis Method: 8321B | Date Collected: 10/22/2011 07:55

Extraction Method: 8330B | Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.52(g) | Date Analyzed: 11/08/2011 23:03

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	92		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07139.d		
Lims ID:	280-22000-A-3-D	Client ID:	CP34 SD003
Inject. Date:	08-Nov-2011 23:03:49	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-A-3-D 280-0002728-135		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	11
Lims Batch ID:	95320	Lims Sample ID:	135
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:48	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	09-Nov-2011 06:40:53

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		1068577	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3297983	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1632230	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	726236	90.9			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		5296127	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

QC Flag Legend

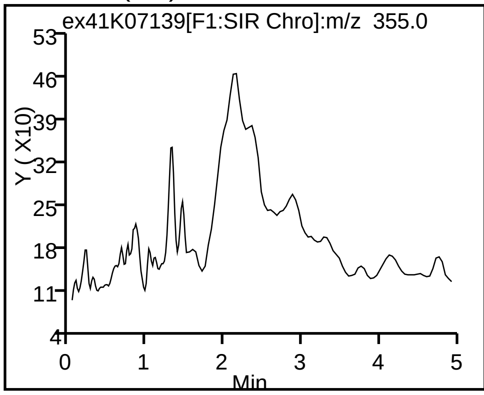
Processing Flags
1 - Missing Peaks

Report Date: 09-Nov-2011 06:55:52 Chrom Revision: 1.2 13-Jul-2011 10:43:06

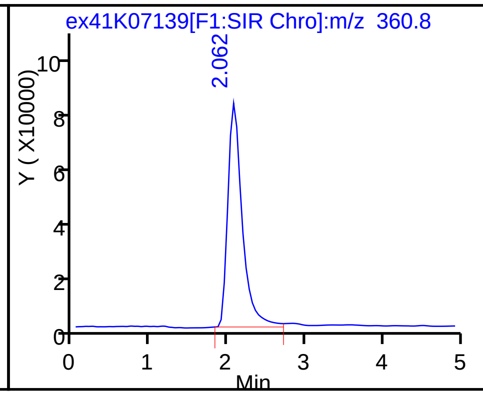
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07139.d

Injection Date:	08-Nov-2011 23:03:49	Limit Group:	LC - 8321A Expl
Client ID:	CP34 SD003	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	135
Operator ID:		Injection Vol:	40.00 ul

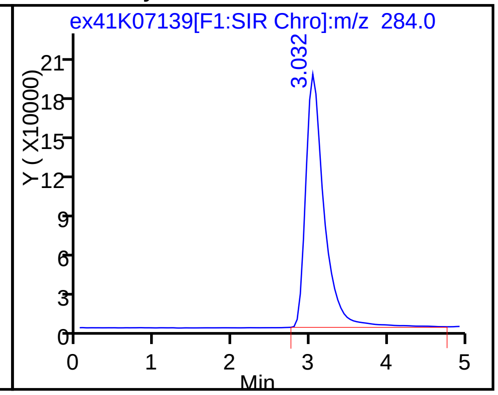
2 HMX (ND)



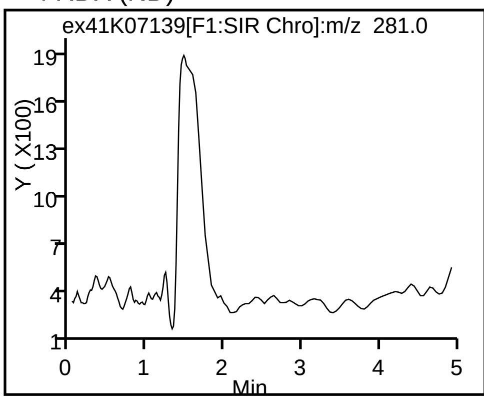
* 1 HMX-13C4



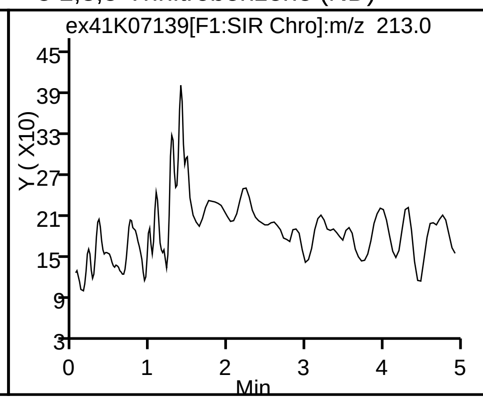
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



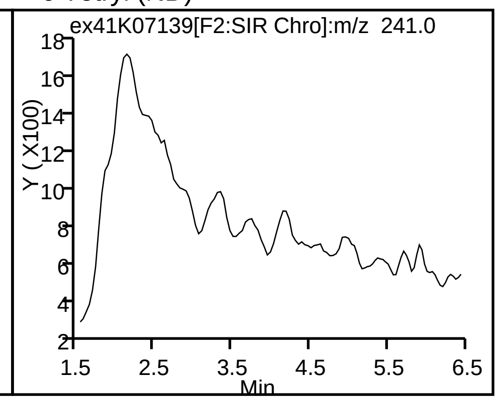
4 RDX (ND)



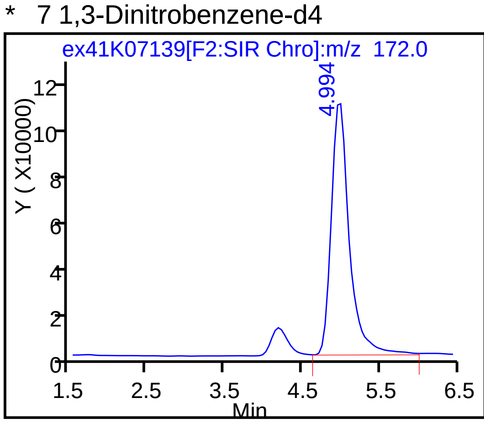
5 1,3,5-Trinitrobenzene (ND)



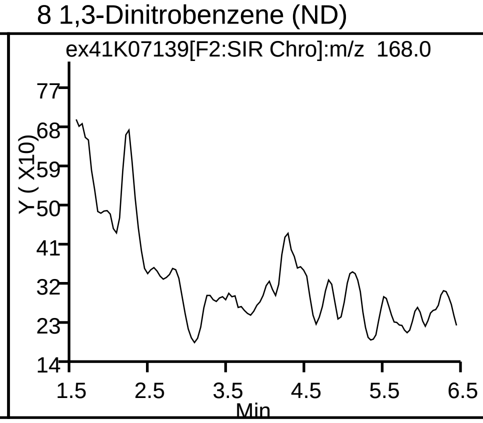
6 Tetryl (ND)



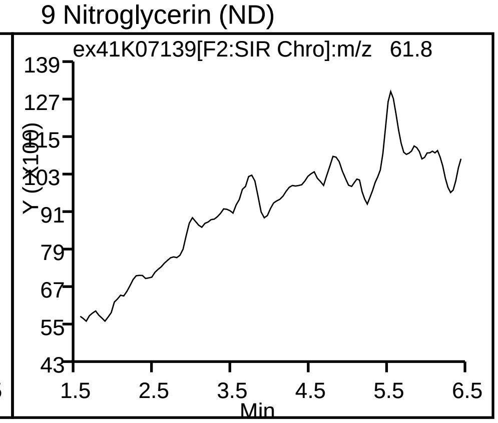
* 7 1,3-Dinitrobenzene-d4



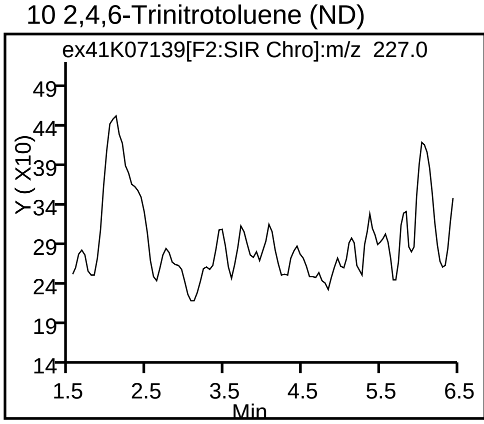
8 1,3-Dinitrobenzene (ND)



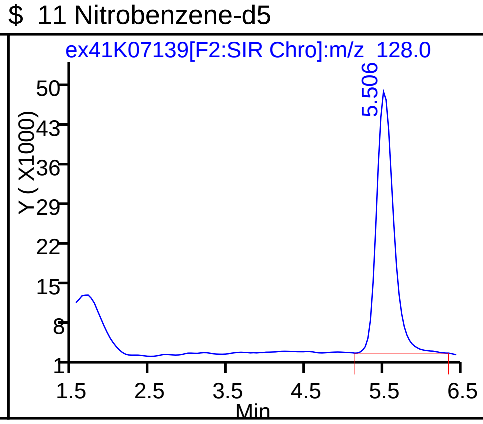
9 Nitroglycerin (ND)



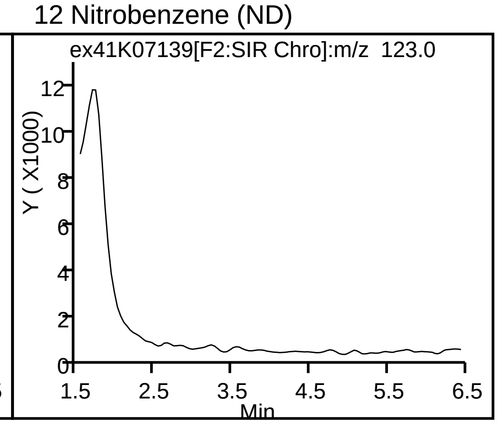
10 2,4,6-Trinitrotoluene (ND)



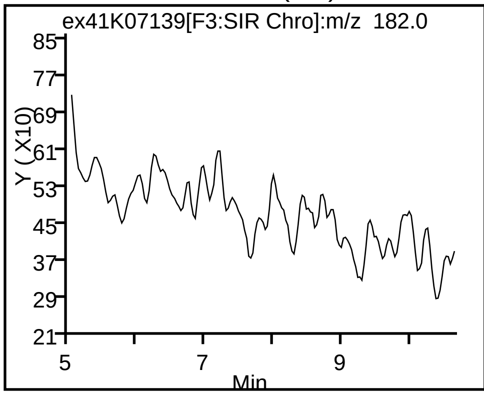
$ 11 Nitrobenzene-d5



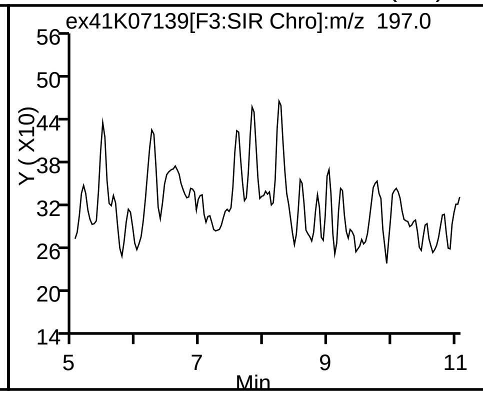
12 Nitrobenzene (ND)



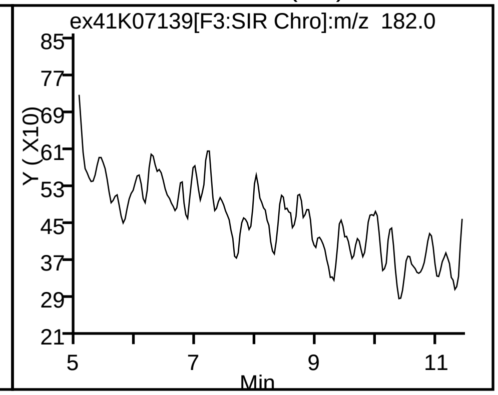
13 3,4-Dinitrotoluene (ND)



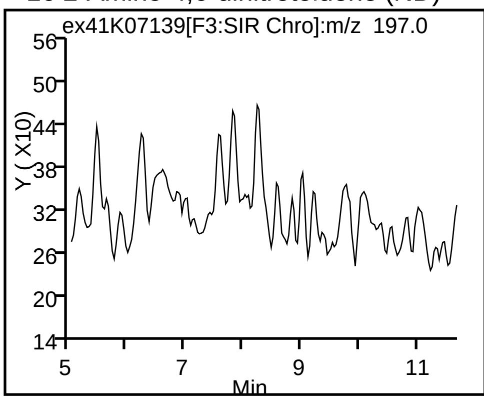
14 4-Amino-2,6-dinitrotoluene (ND)



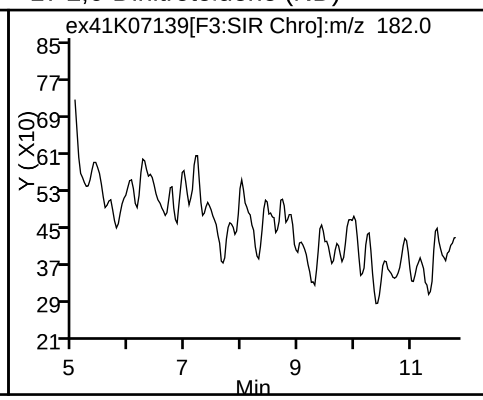
15 2,3-Dinitrotoluene (ND)



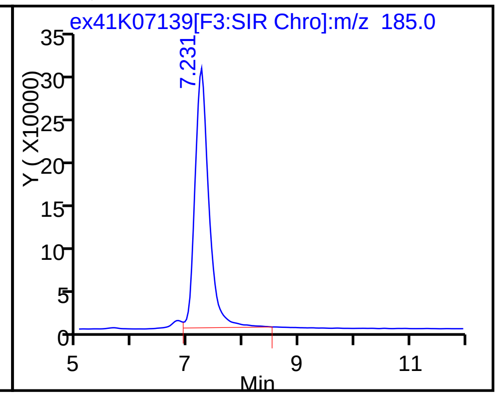
16 2-Amino-4,6-dinitrotoluene (ND)



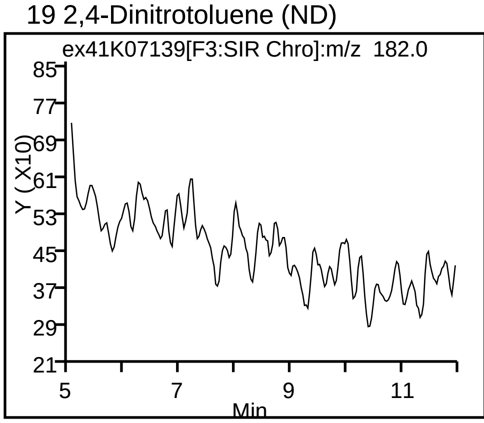
17 2,6-Dinitrotoluene (ND)



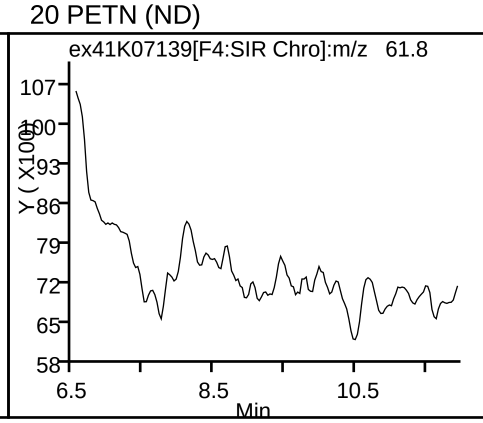
* 18 2,4-dinitrotoluene-d3



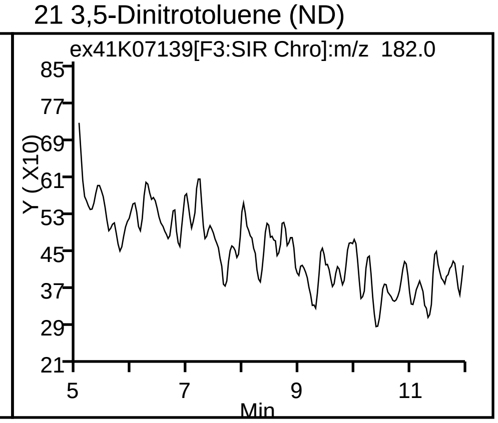
19 2,4-Dinitrotoluene (ND)



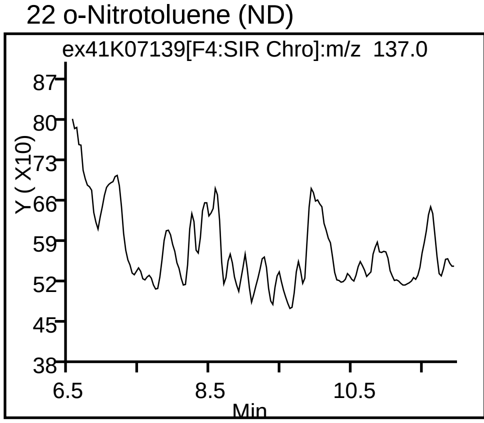
20 PETN (ND)



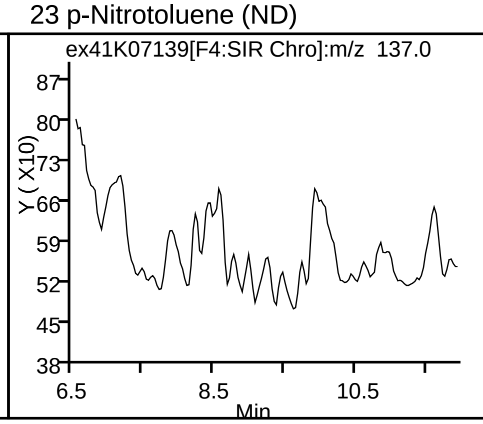
21 3,5-Dinitrotoluene (ND)



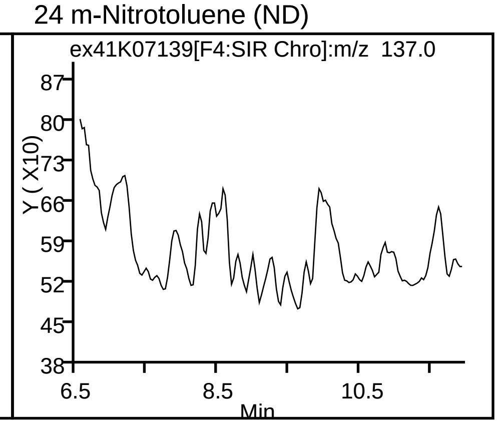
22 o-Nitrotoluene (ND)



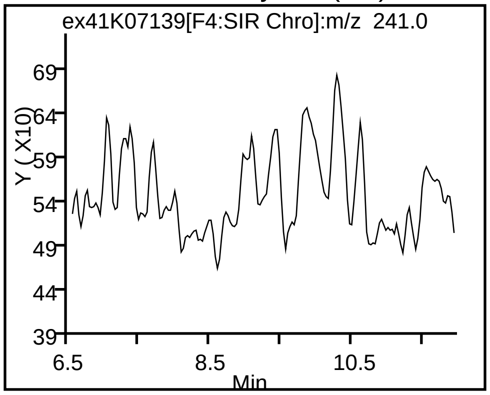
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP35 SD004 Lab Sample ID: 280-22000-4

Matrix: Solid Lab File ID: ex41K07140.d

Analysis Method: 8321B Date Collected: 10/22/2011 08:30

Extraction Method: 8330B Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.81(g) Date Analyzed: 11/08/2011 23:17

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.023	U	0.093	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.093	0.012	0.0066
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.093	0.012	0.0047
121-14-2	2,4-Dinitrotoluene	0.012	U	0.093	0.012	0.0076
606-20-2	2,6-Dinitrotoluene	0.023	U	0.093	0.023	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.023	U	0.093	0.023	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.093	0.012	0.0053
99-08-1	3-Nitrotoluene	0.023	U	0.093	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.093	0.012	0.0047
99-99-0	4-Nitrotoluene	0.023	U	0.093	0.023	0.010
2691-41-0	HMX	0.012	U	0.093	0.012	0.0054
98-95-3	Nitrobenzene	0.012	U	0.093	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.093	0.012	0.0097
78-11-5	PETN	0.012	U	0.093	0.012	0.0048
121-82-4	RDX	0.012	U	0.093	0.012	0.0040
479-45-8	Tetryl	0.012	U	0.093	0.012	0.0070

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07140.d		
Lims ID:	280-22000-A-4-D	Client ID:	CP35 SD004
Inject. Date:	08-Nov-2011 23:17:23	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-A-4-D 280-0002728-136		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	12
Lims Batch ID:	95320	Lims Sample ID:	136
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:48	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	09-Nov-2011 06:41:06

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		866382	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3036203	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1931241	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.118	751777	79.1			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		5261229	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

QC Flag Legend

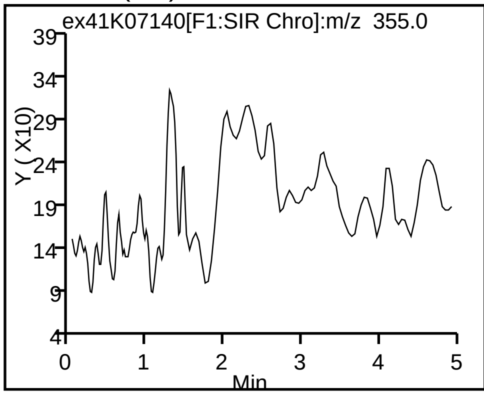
Processing Flags
1 - Missing Peaks

Report Date: 09-Nov-2011 06:55:54　　Chrom Revision: 1.2 13-Jul-2011 10:43:06

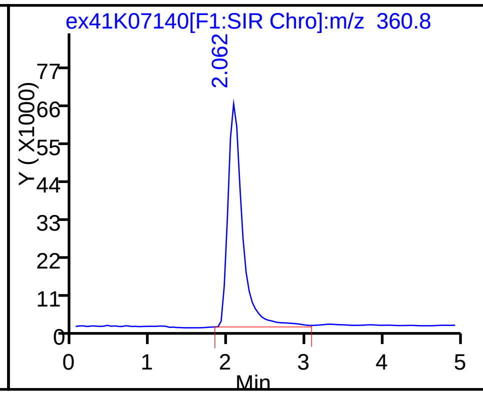
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07140.d

Injection Date:	08-Nov-2011 23:17:23	Limit Group:	LC - 8321A Expl
Client ID:	CP35 SD004	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	136
Operator ID:		Injection Vol:	40.00 ul

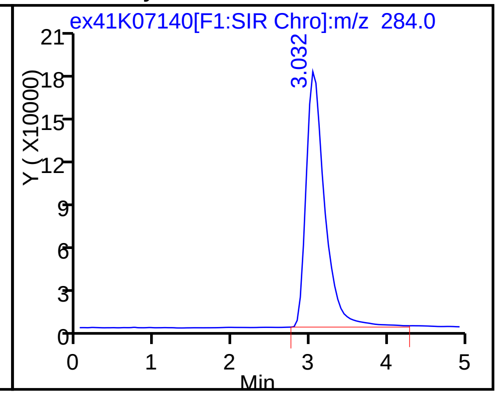
2 HMX (ND)



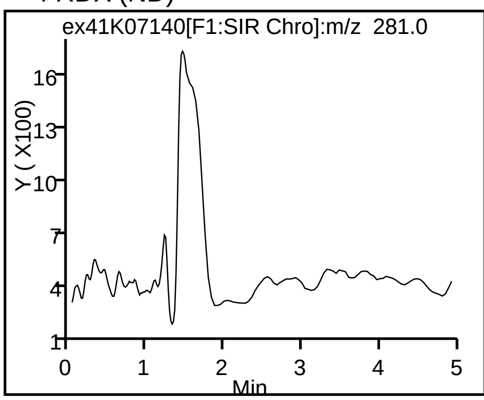
* 1 HMX-13C4



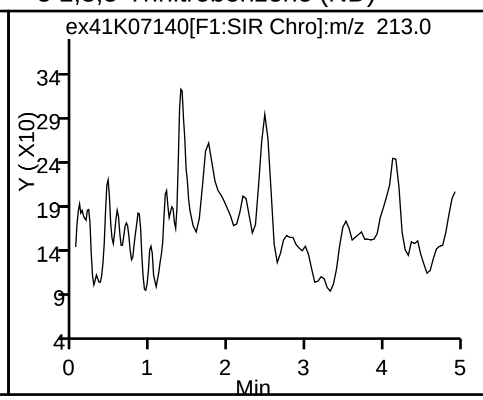
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



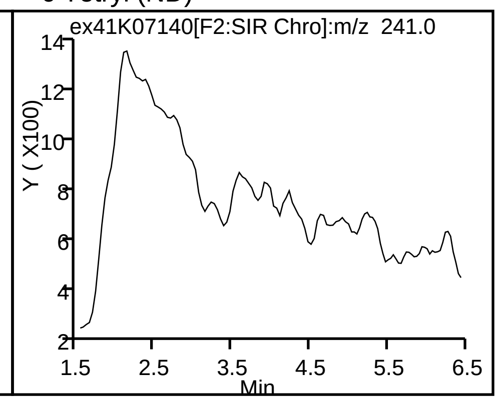
4 RDX (ND)



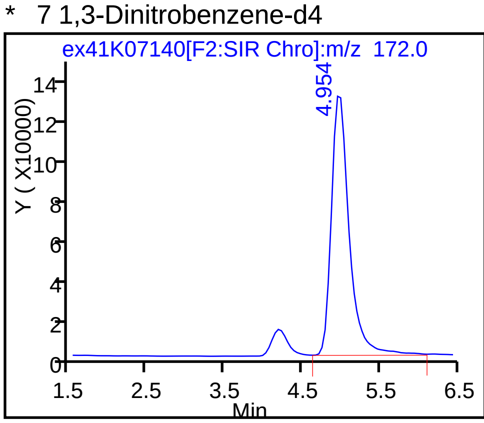
5 1,3,5-Trinitrobenzene (ND)



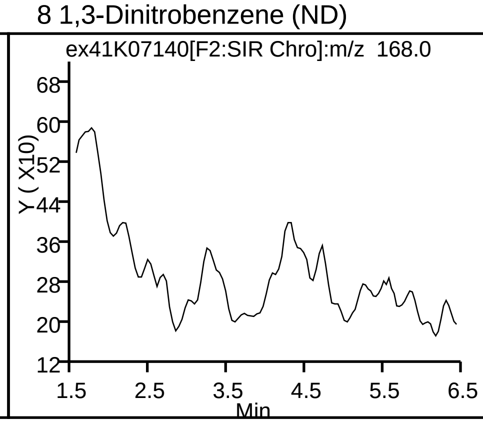
6 Tetryl (ND)



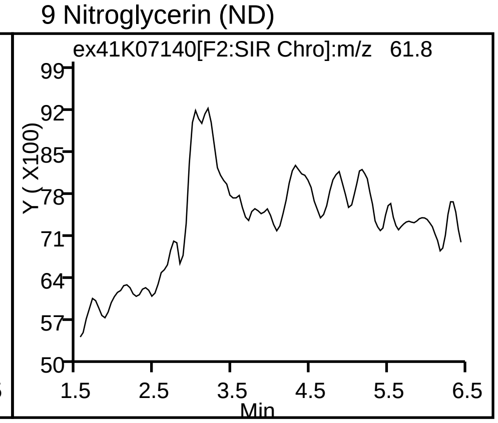
* 7 1,3-Dinitrobenzene-d4



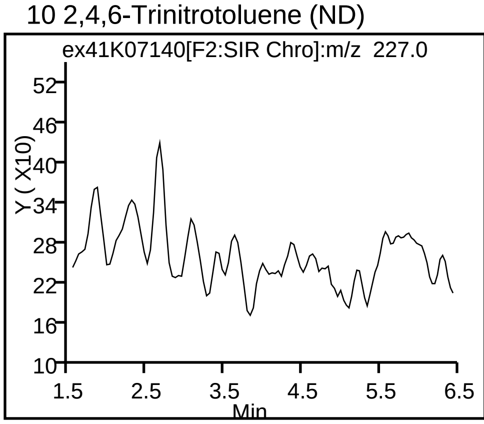
8 1,3-Dinitrobenzene (ND)



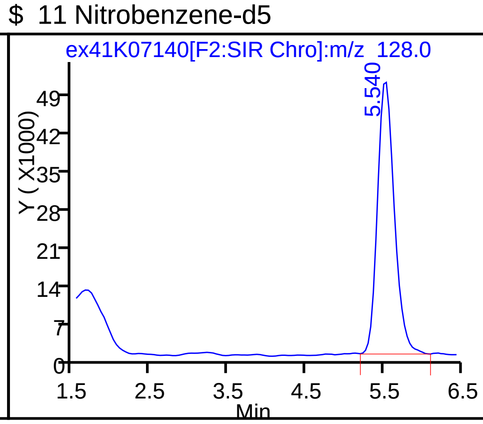
9 Nitroglycerin (ND)



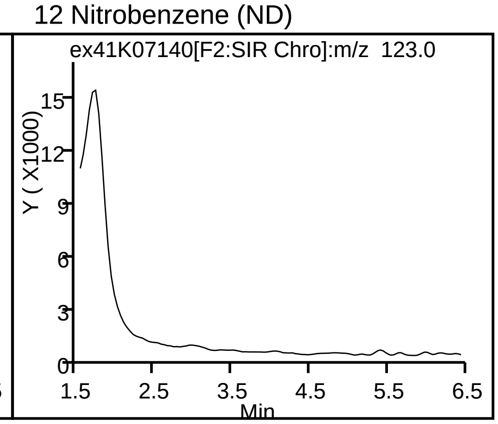
10 2,4,6-Trinitrotoluene (ND)



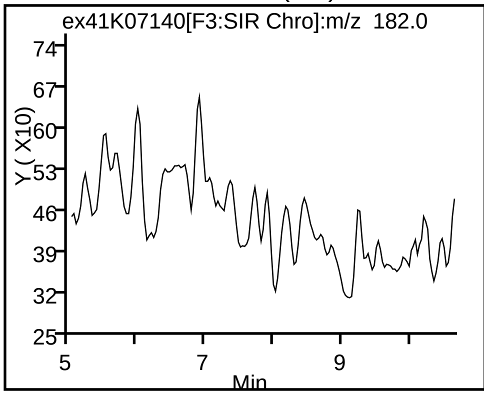
$ 11 Nitrobenzene-d5



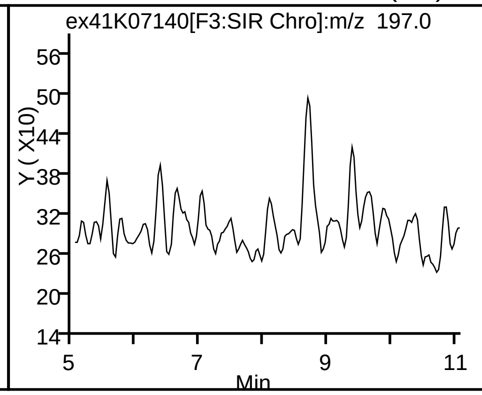
12 Nitrobenzene (ND)



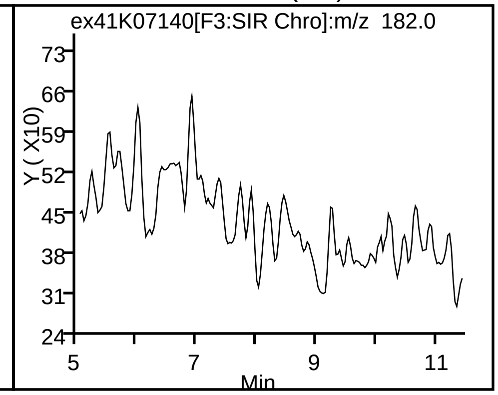
13 3,4-Dinitrotoluene (ND)



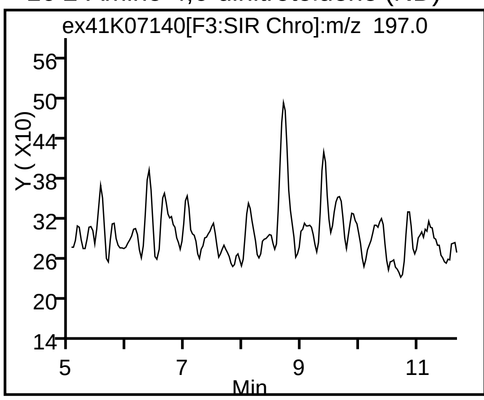
14 4-Amino-2,6-dinitrotoluene (ND)



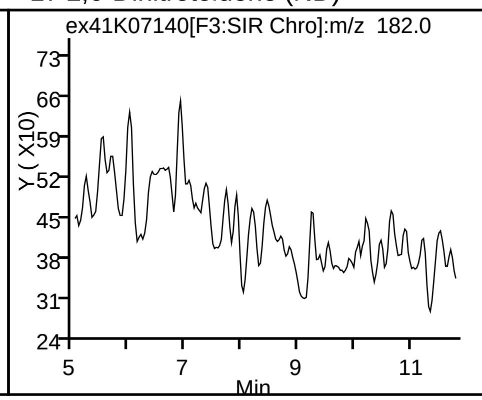
15 2,3-Dinitrotoluene (ND)



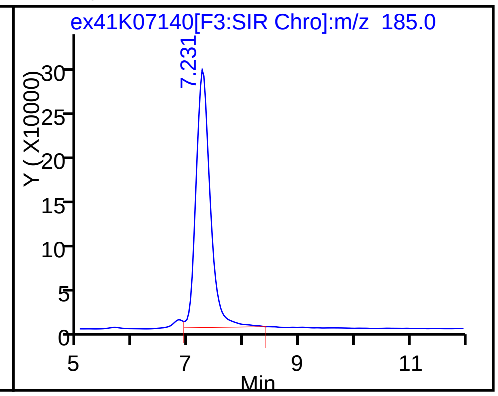
16 2-Amino-4,6-dinitrotoluene (ND)



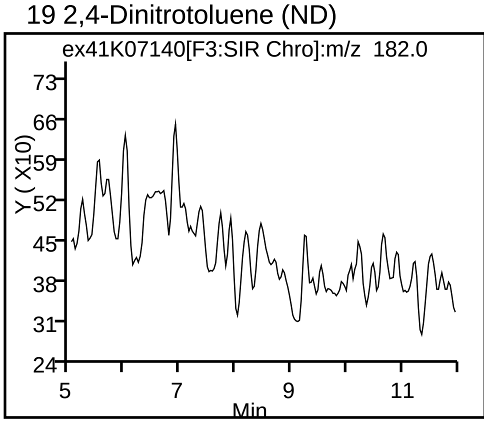
17 2,6-Dinitrotoluene (ND)



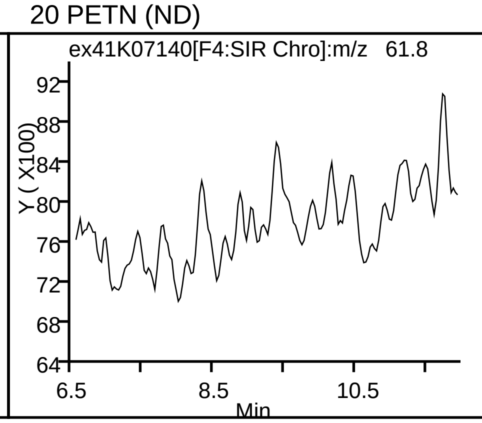
* 18 2,4-dinitrotoluene-d3



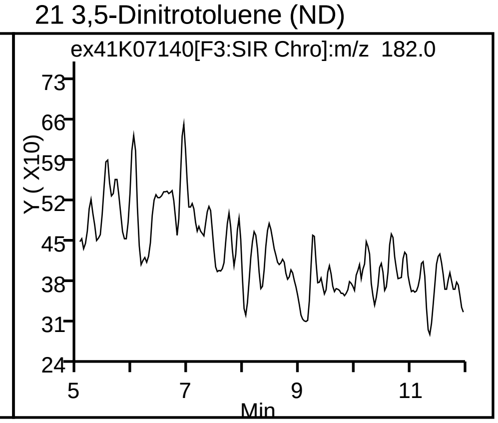
19 2,4-Dinitrotoluene (ND)



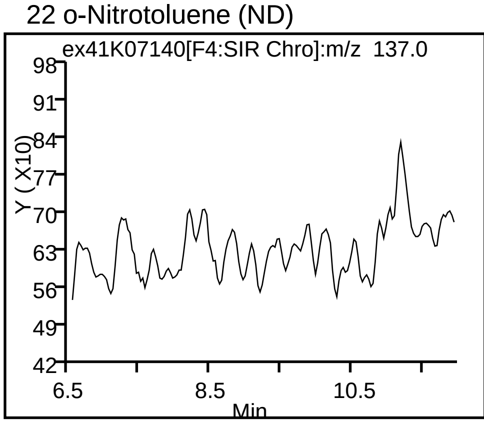
20 PETN (ND)



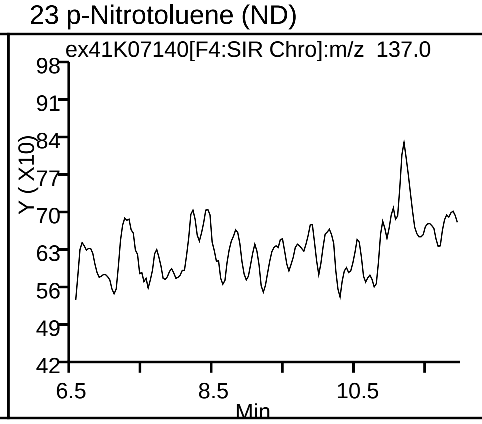
21 3,5-Dinitrotoluene (ND)



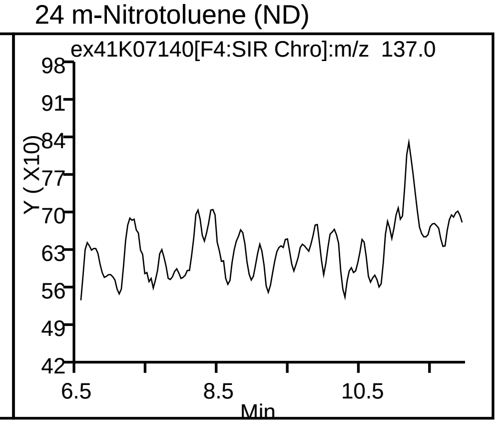
22 o-Nitrotoluene (ND)



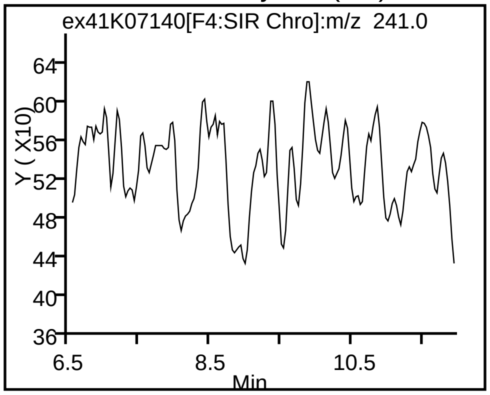
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP36 SD005   Lab Sample ID: 280-22000-5

Matrix: Solid   Lab File ID: ex41K07141.d

Analysis Method: 8321B   Date Collected: 10/22/2011 09:00

Extraction Method: 8330B   Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.13(g)   Date Analyzed: 11/08/2011 23:30

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	91	M	68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07141.d		
Lims ID:	280-22000-B-5-C	Client ID:	CP36 SD005
Inject. Date:	08-Nov-2011 23:30:56	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-B-5-C 280-0002728-137		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	13
Lims Batch ID:	95320	Lims Sample ID:	137
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:48	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	09-Nov-2011 06:41:27

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		1088743	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3412010	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1771951	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										M
2	128.0	5.506	5.506	0.000	1.102	782795	90.2			M
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15	2,3-Dinitrotoluene									1
3	182.0		6.459							
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.806							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.231	7.201	0.030		5200921	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									1
4	61.8		7.707							
21	3,5-Dinitrotoluene									1
3	182.0		7.839							
22	o-Nitrotoluene									1
4	137.0		8.223							
23	p-Nitrotoluene									1
4	137.0		8.770							
24	m-Nitrotoluene									1
4	137.0		9.408							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.319							

QC Flag Legend

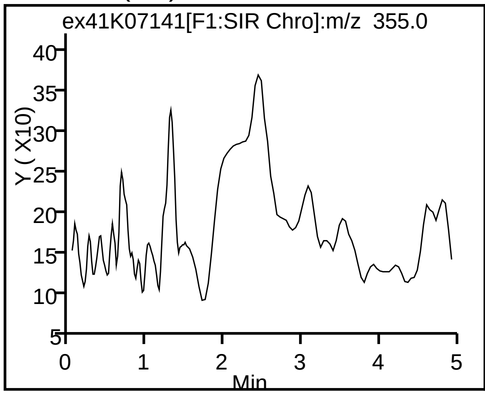
Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

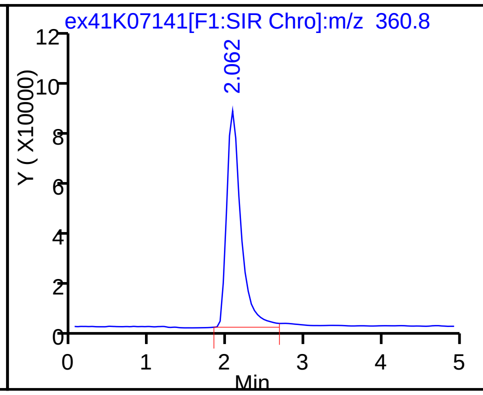
Report Date: 09-Nov-2011 06:55:55 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07141.d		
Injection Date:	08-Nov-2011 23:30:56	Limit Group:	LC - 8321A Expl
Client ID:	CP36 SD005	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	137
Operator ID:		Injection Vol:	40.00 ul

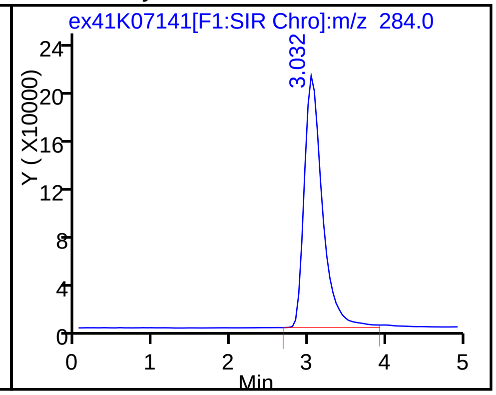
2 HMX (ND)



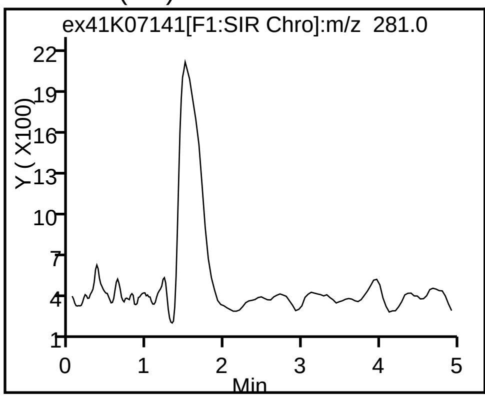
* 1 HMX-13C4



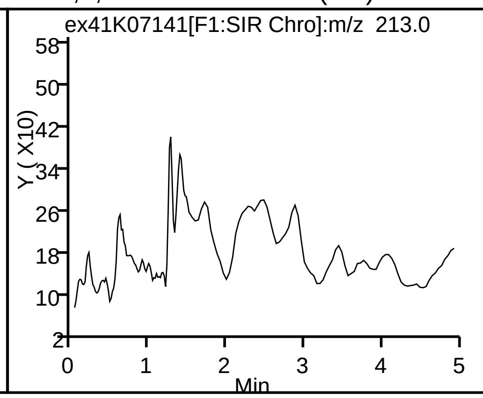
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



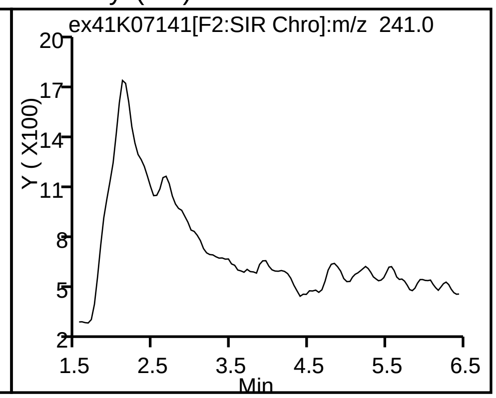
4 RDX (ND)



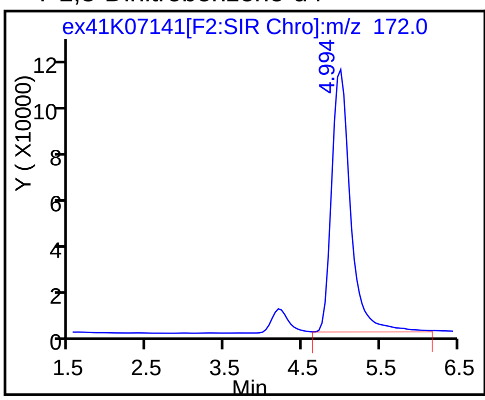
5 1,3,5-Trinitrobenzene (ND)



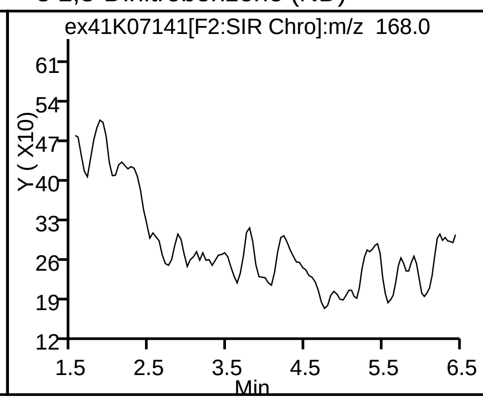
6 Tetryl (ND)



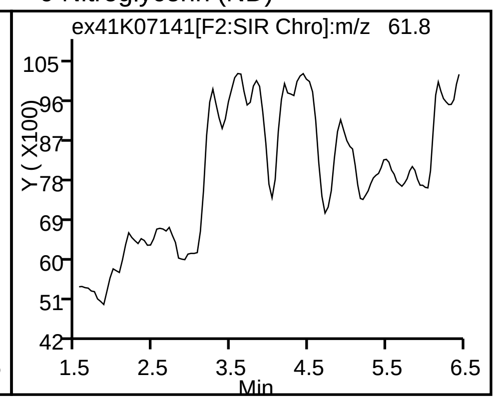
* 7 1,3-Dinitrobenzene-d4



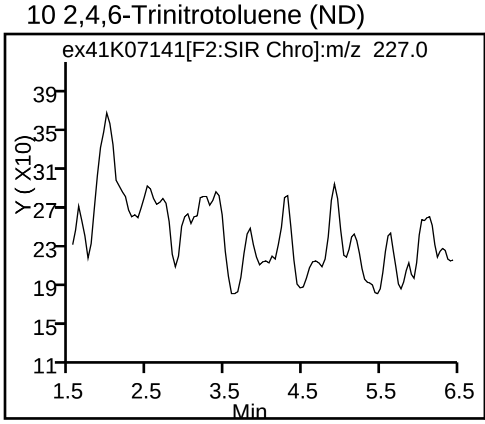
8 1,3-Dinitrobenzene (ND)



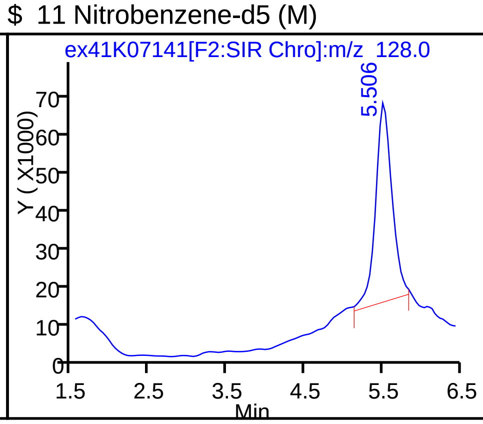
9 Nitroglycerin (ND)



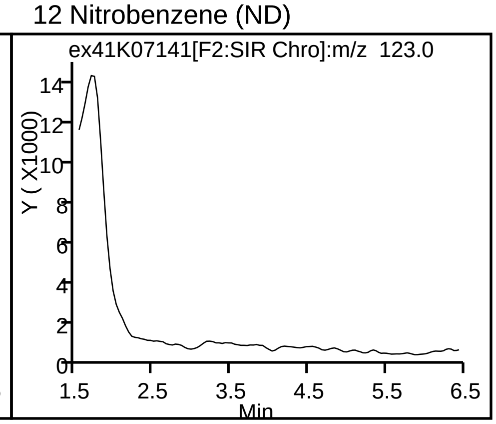
10 2,4,6-Trinitrotoluene (ND)



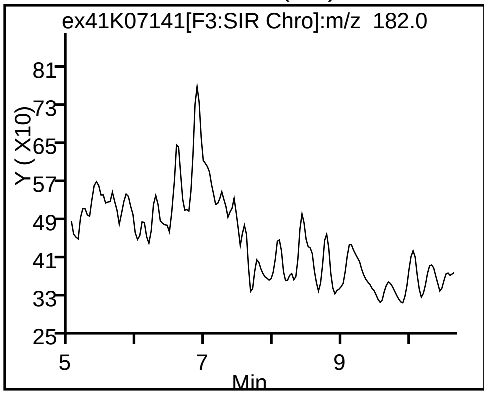
$ 11 Nitrobenzene-d5 (M)



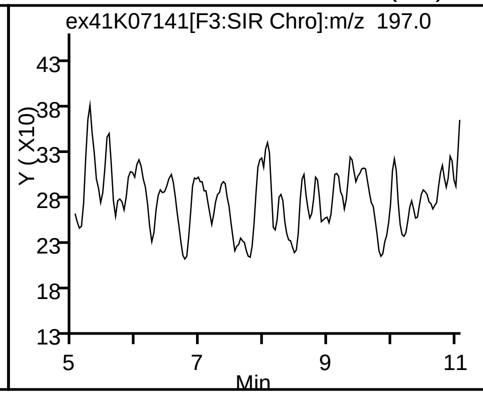
12 Nitrobenzene (ND)



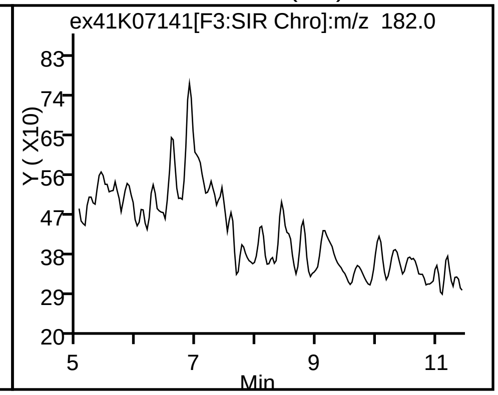
13 3,4-Dinitrotoluene (ND)



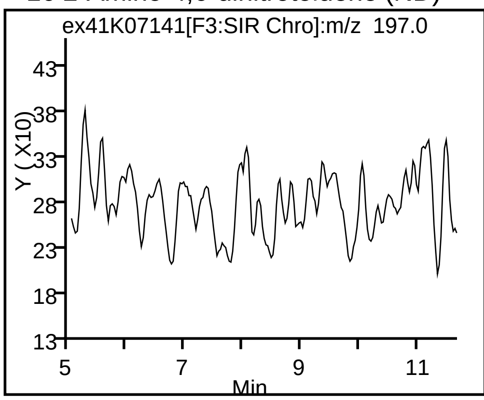
14 4-Amino-2,6-dinitrotoluene (ND)



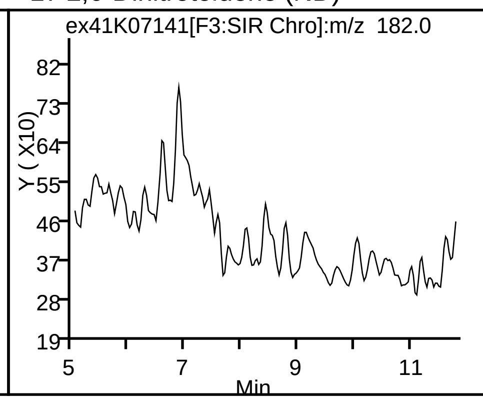
15 2,3-Dinitrotoluene (ND)



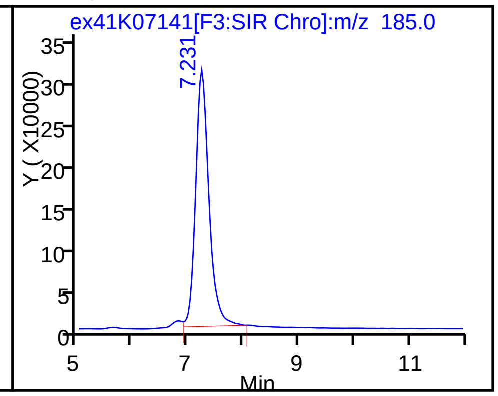
16 2-Amino-4,6-dinitrotoluene (ND)



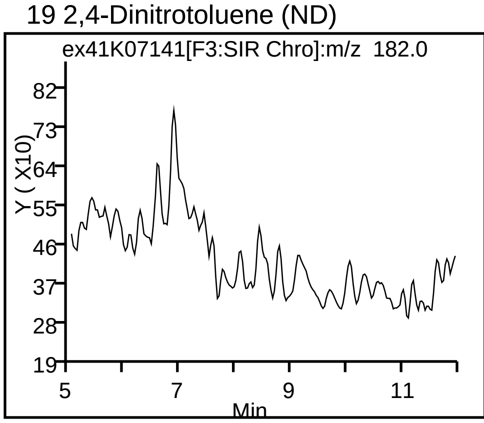
17 2,6-Dinitrotoluene (ND)



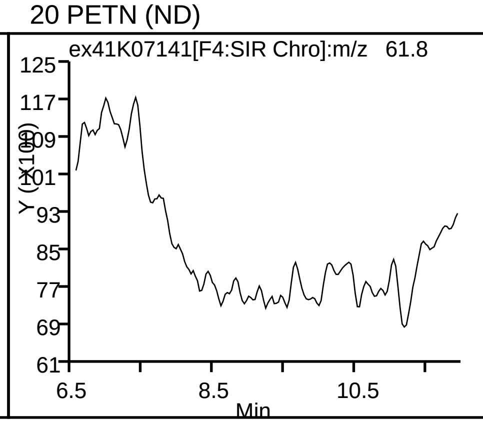
* 18 2,4-dinitrotoluene-d3



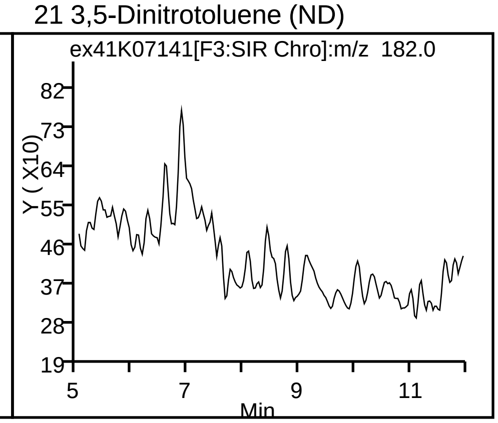
19 2,4-Dinitrotoluene (ND)



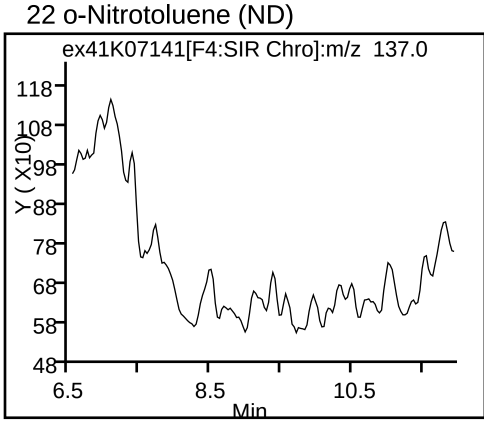
20 PETN (ND)



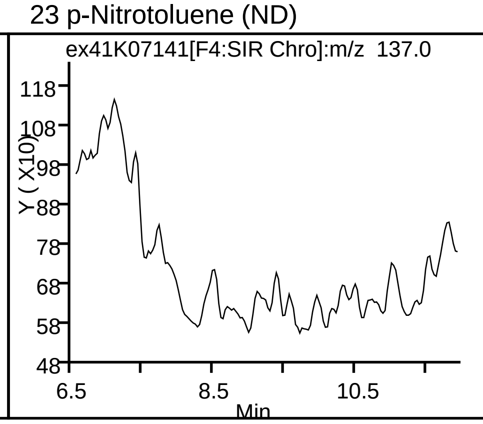
21 3,5-Dinitrotoluene (ND)



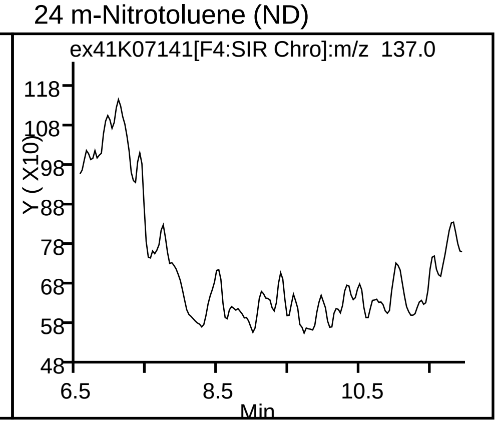
22 o-Nitrotoluene (ND)



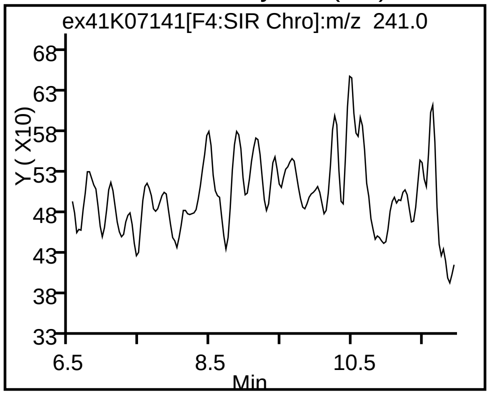
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



Report Date: 09-Nov-2011 06:55:55

Chrom Revision: 1.2 13-Jul-2011 10:43:06

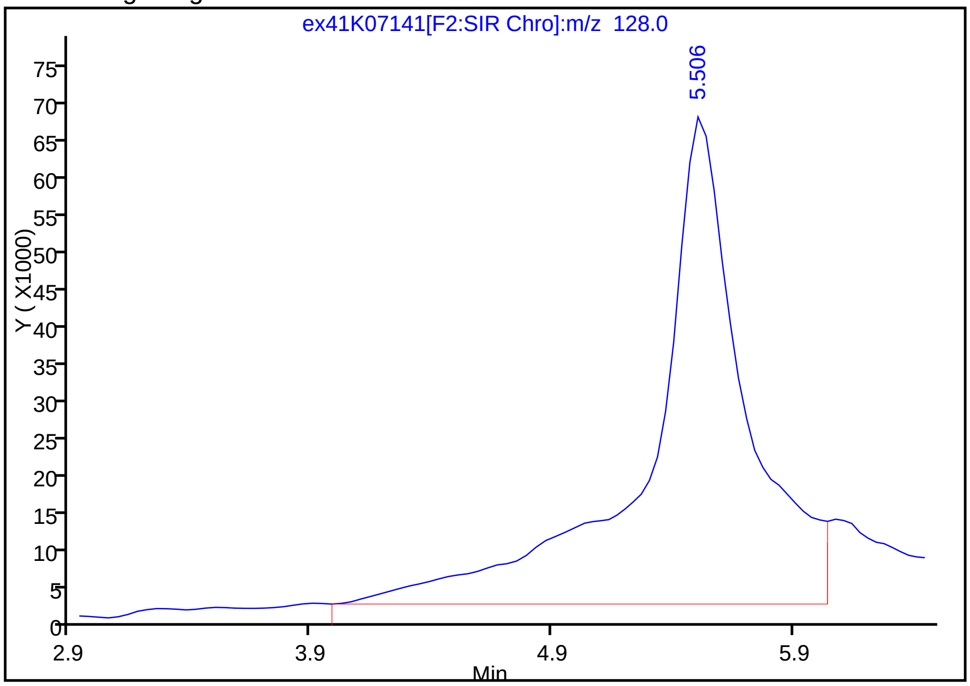
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07141.d		
Injection Date:	08-Nov-2011 23:30:56	Limit Group:	LC - 8321A Expl
Client ID:	CP36 SD005	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	137
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.51, Det: F2:SIR

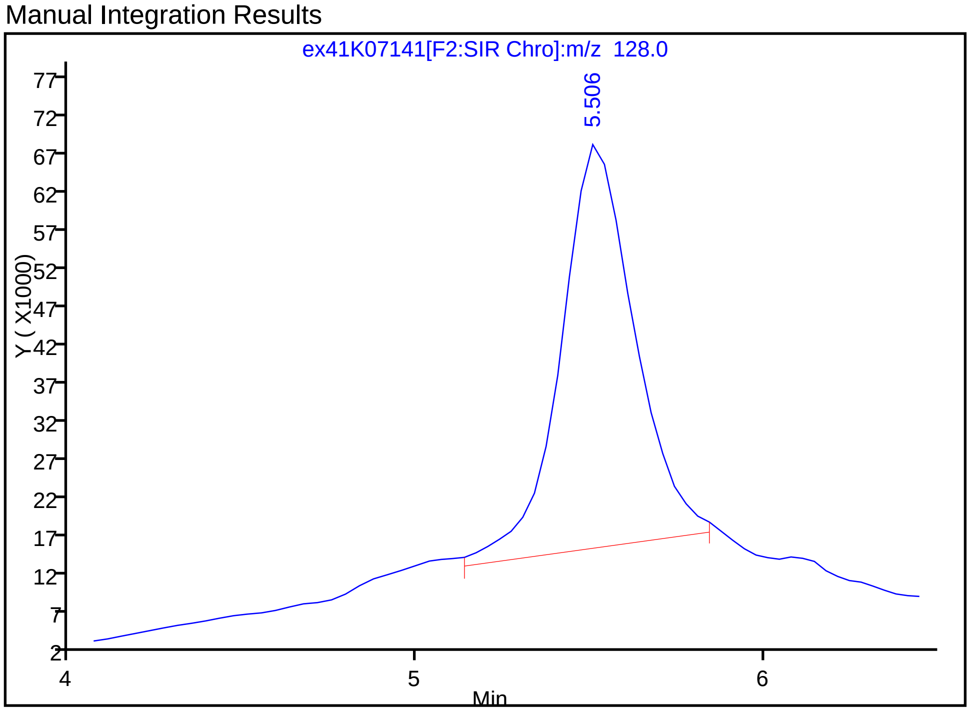
Processing Integration Results

RT: 5.51
Response: 1927537
Amount: 226.8112



Manual Integration Results

RT: 5.51
Response: 782795
Amount: 90.219650



Reviewer: meyera, 09-Nov-2011 06:41:27

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP37 SD006   Lab Sample ID: 280-22000-6

Matrix: Solid   Lab File ID: ex41K07142.d

Analysis Method: 8321B   Date Collected: 10/22/2011 09:30

Extraction Method: 8330B   Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.19(g)   Date Analyzed: 11/08/2011 23:44

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	73	M	68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07142.d		
Lims ID:	280-22000-A-6-D	Client ID:	CP37 SD006
Inject. Date:	08-Nov-2011 23:44:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-A-6-D 280-0002728-138		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	14
Lims Batch ID:	95320	Lims Sample ID:	138
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:48	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	09-Nov-2011 06:41:46

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		982088	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3247146	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		2042415	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										M
2	128.0	5.540	5.506	0.034	1.109	727291	72.1			M
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		5598763	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

QC Flag Legend

Processing Flags
1 - Missing Peaks

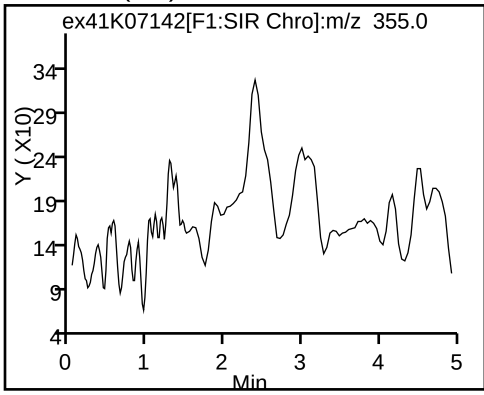
Review Flags
M - Manually Integrated

Report Date: 09-Nov-2011 06:55:55 Chrom Revision: 1.2 13-Jul-2011 10:43:06

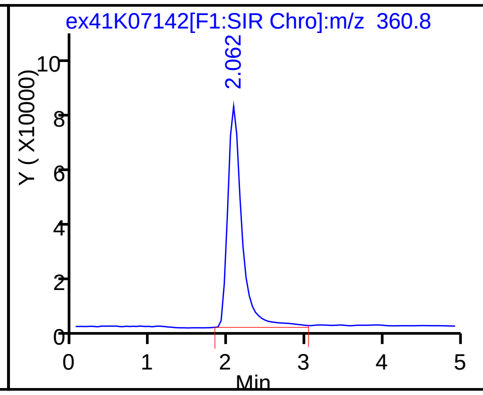
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07142.d

Injection Date:	08-Nov-2011 23:44:30	Limit Group:	LC - 8321A Expl
Client ID:	CP37 SD006	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	138
Operator ID:		Injection Vol:	40.00 ul

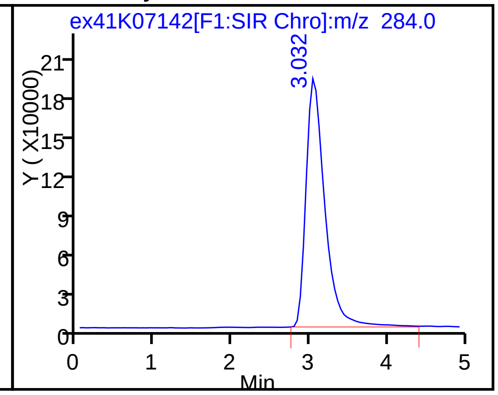
2 HMX (ND)



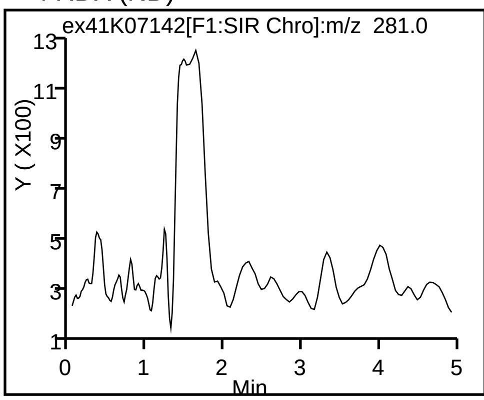
* 1 HMX-13C4



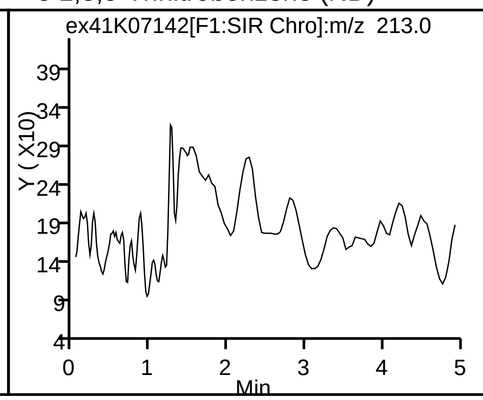
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



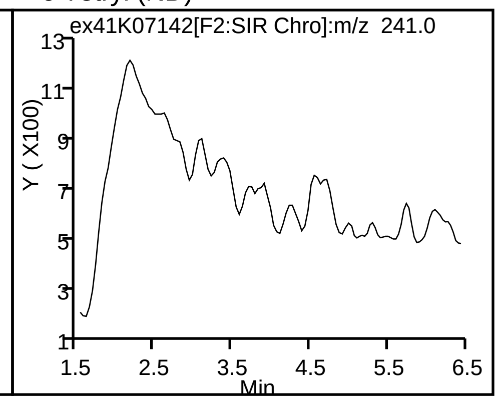
4 RDX (ND)



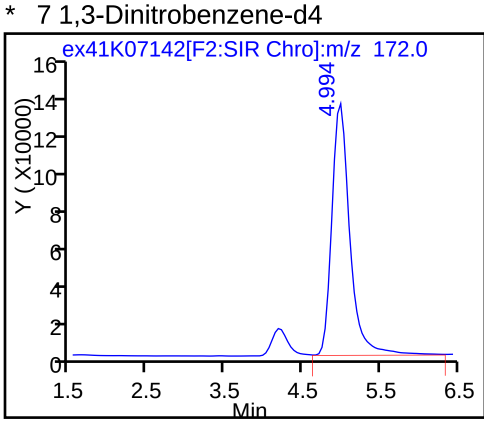
5 1,3,5-Trinitrobenzene (ND)



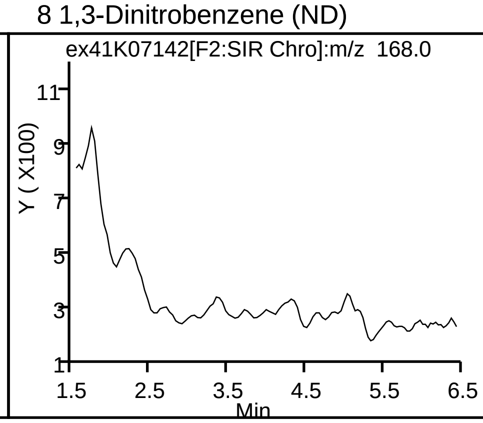
6 Tetryl (ND)



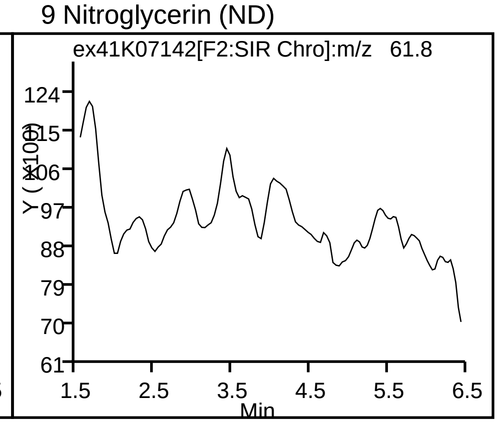
* 7 1,3-Dinitrobenzene-d4



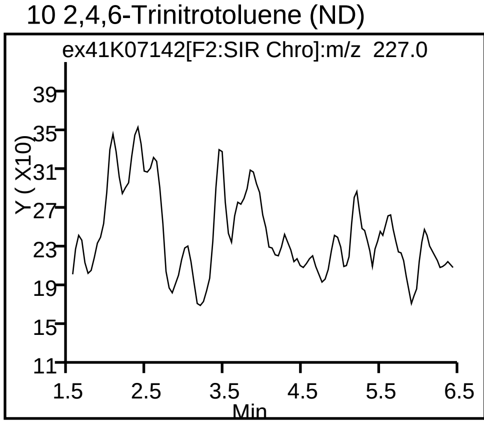
8 1,3-Dinitrobenzene (ND)



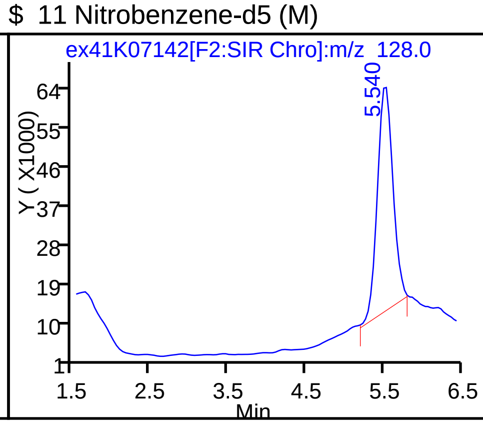
9 Nitroglycerin (ND)



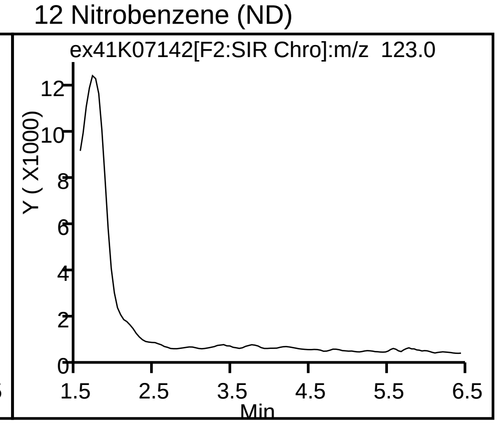
10 2,4,6-Trinitrotoluene (ND)



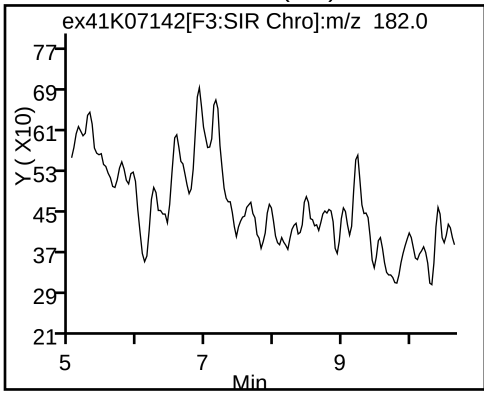
$ 11 Nitrobenzene-d5 (M)



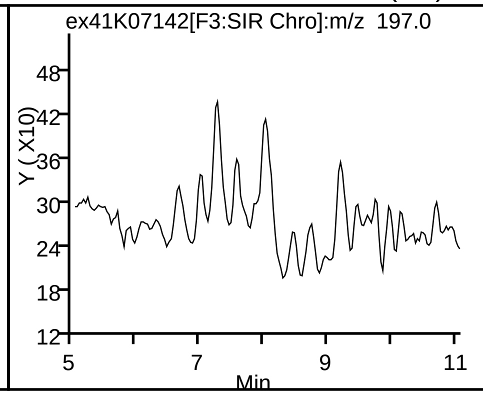
12 Nitrobenzene (ND)



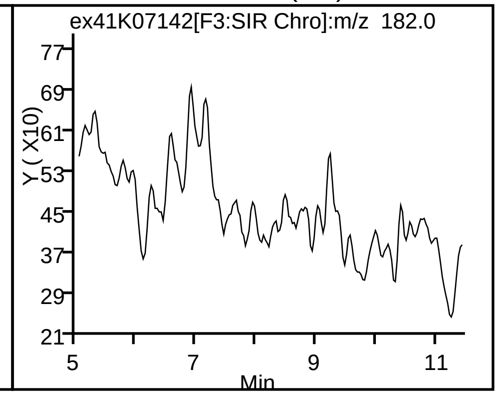
13 3,4-Dinitrotoluene (ND)



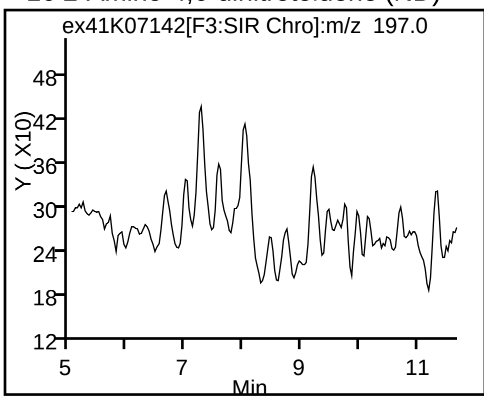
14 4-Amino-2,6-dinitrotoluene (ND)



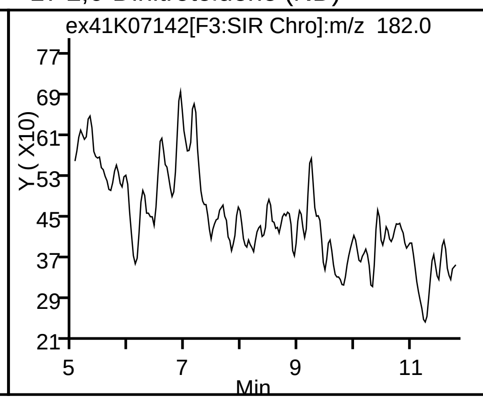
15 2,3-Dinitrotoluene (ND)



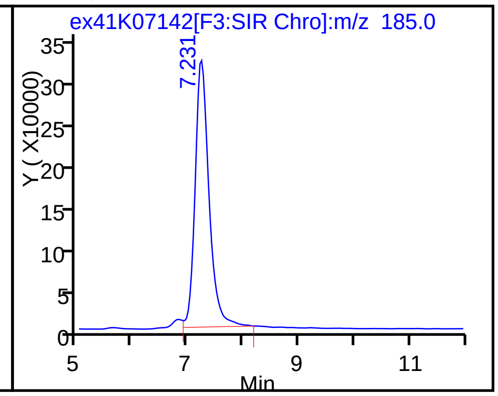
16 2-Amino-4,6-dinitrotoluene (ND)



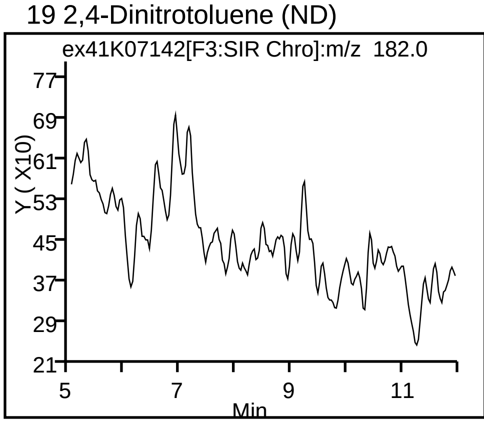
17 2,6-Dinitrotoluene (ND)



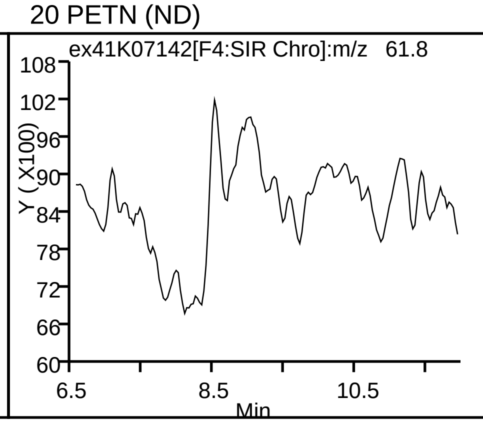
* 18 2,4-dinitrotoluene-d3



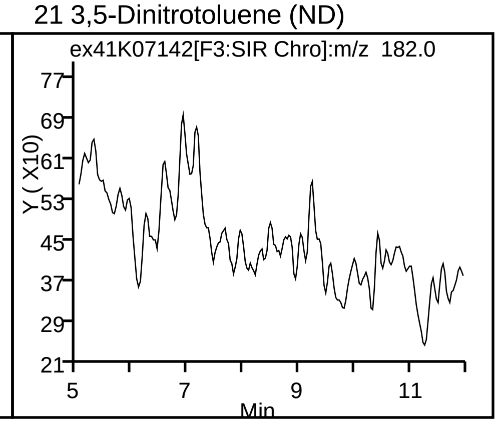
19 2,4-Dinitrotoluene (ND)



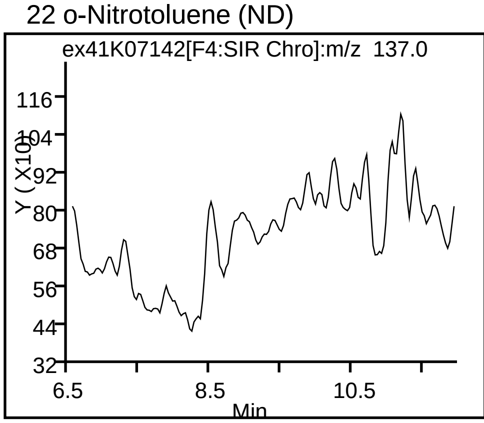
20 PETN (ND)



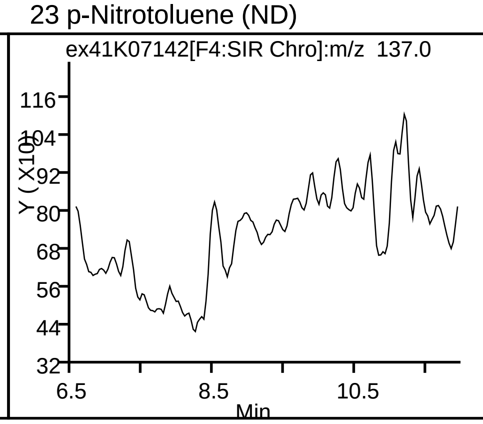
21 3,5-Dinitrotoluene (ND)



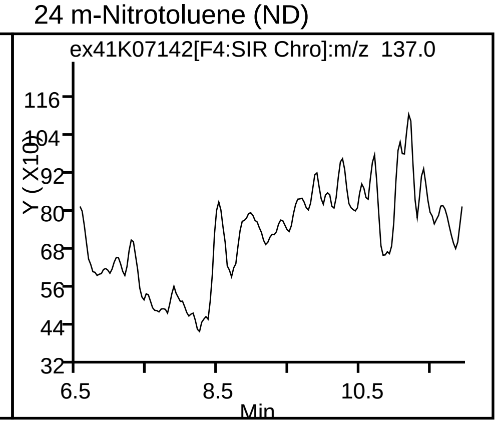
22 o-Nitrotoluene (ND)



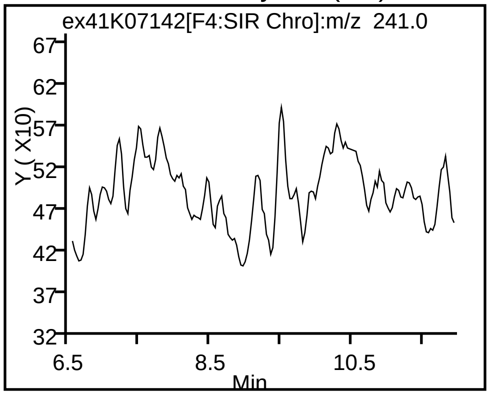
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



Report Date: 09-Nov-2011 06:55:55

Chrom Revision: 1.2 13-Jul-2011 10:43:06

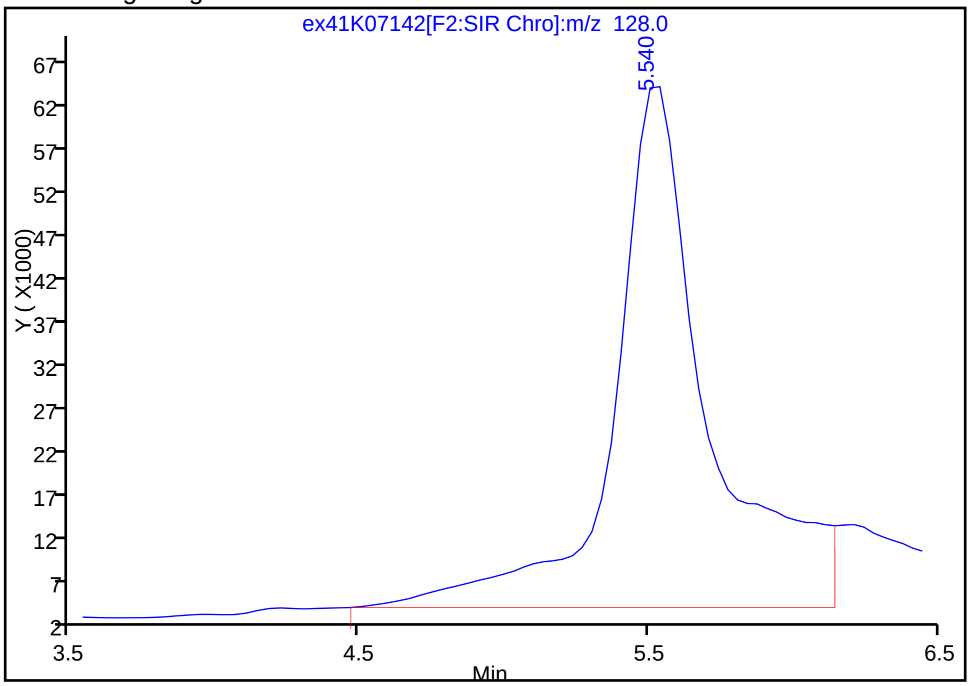
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07142.d		
Injection Date:	08-Nov-2011 23:44:30	Limit Group:	LC - 8321A Expl
Client ID:	CP37 SD006	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	138
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.51, Det: F2:SIR

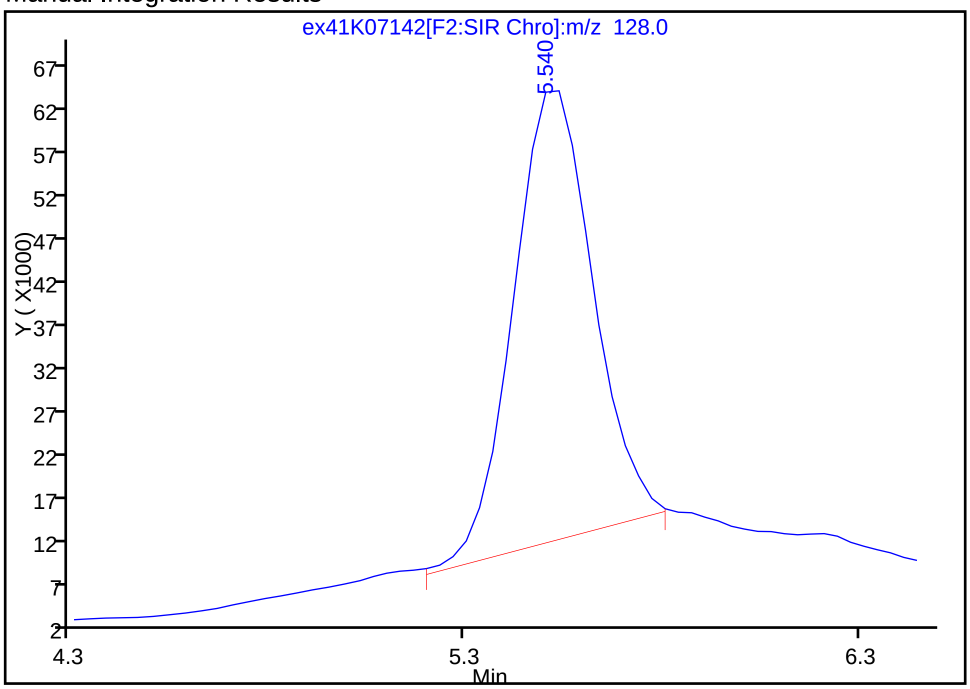
Processing Integration Results

RT: 5.54
Response: 1445558
Amount: 146.4599



Manual Integration Results

RT: 5.54
Response: 727291
Amount: 72.105023



Reviewer: meyera, 09-Nov-2011 06:41:46

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP38 SD007 Lab Sample ID: 280-22000-7

Matrix: Solid Lab File ID: ex41K07143.d

Analysis Method: 8321B Date Collected: 10/22/2011 09:40

Extraction Method: 8330B Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.46(g) Date Analyzed: 11/08/2011 23:58

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	92		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07143.d		
Lims ID:	280-22000-A-7-D	Client ID:	CP38 SD007
Inject. Date:	08-Nov-2011 23:58:04	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-A-7-D 280-0002728-139		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	15
Lims Batch ID:	95320	Lims Sample ID:	139
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:48	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 09-Nov-2011 06:41:56

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		837656	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2677703	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1697586	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	752088	90.5			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07143.d

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4425772	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

QC Flag Legend

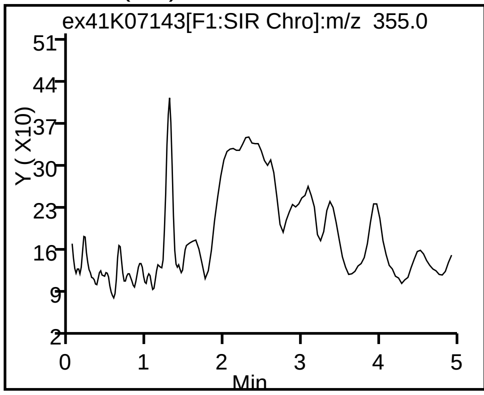
Processing Flags
1 - Missing Peaks

Report Date: 09-Nov-2011 06:55:56   Chrom Revision: 1.2 13-Jul-2011 10:43:06

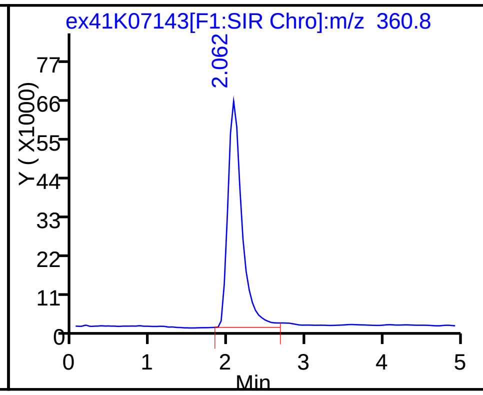
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07143.d

Injection Date:	08-Nov-2011 23:58:04	Limit Group:	LC - 8321A Expl
Client ID:	CP38 SD007	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	139
Operator ID:		Injection Vol:	40.00 ul

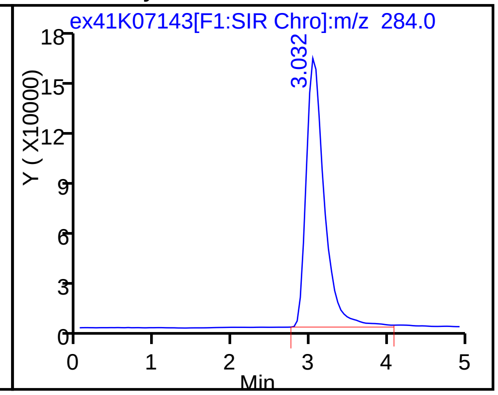
2 HMX (ND)



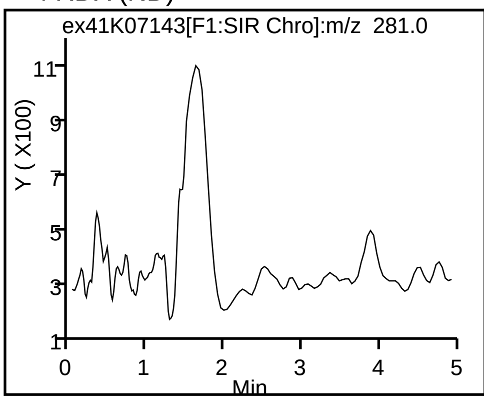
* 1 HMX-13C4



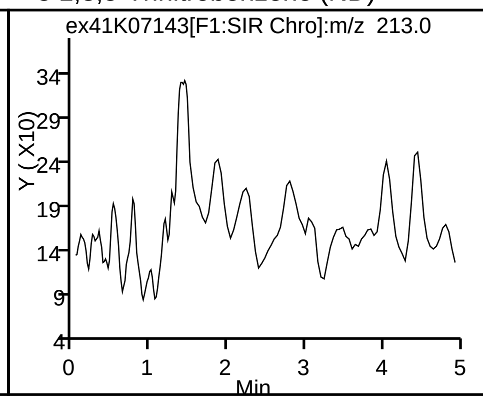
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



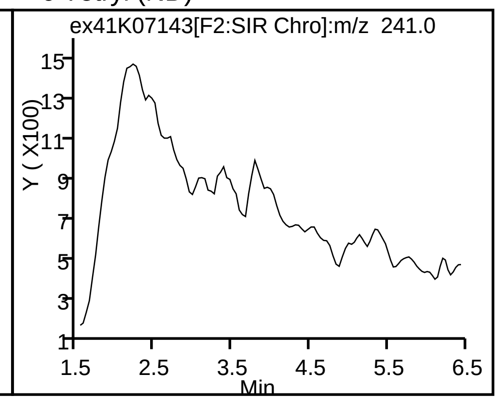
4 RDX (ND)



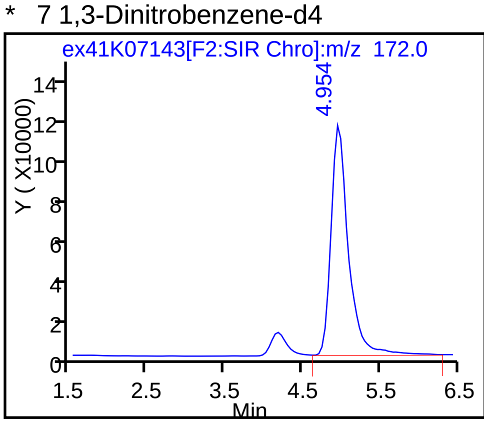
5 1,3,5-Trinitrobenzene (ND)



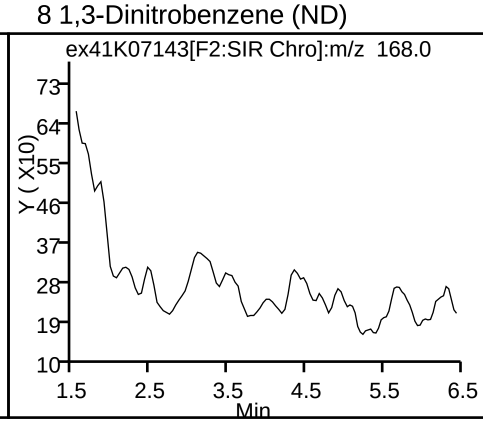
6 Tetryl (ND)



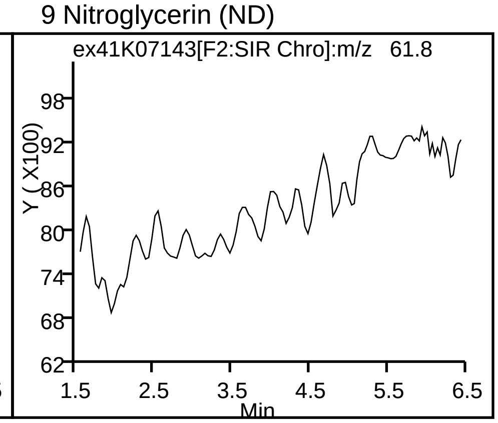
* 7 1,3-Dinitrobenzene-d4



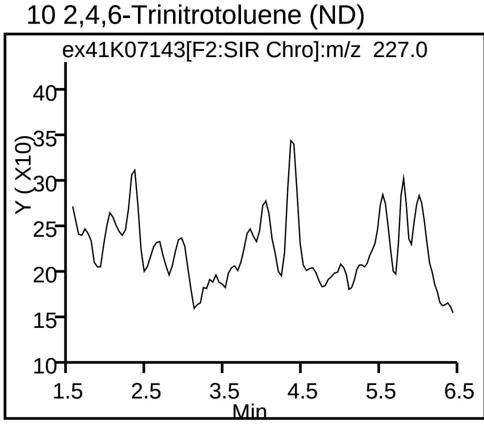
8 1,3-Dinitrobenzene (ND)



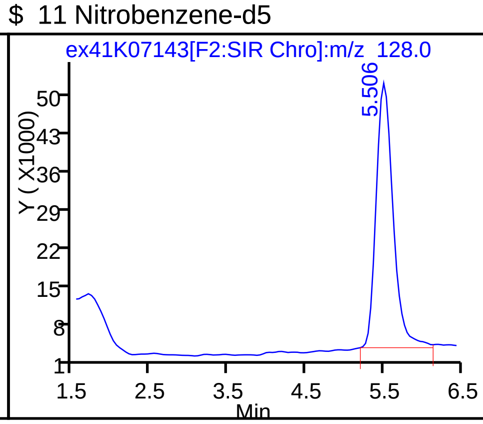
9 Nitroglycerin (ND)



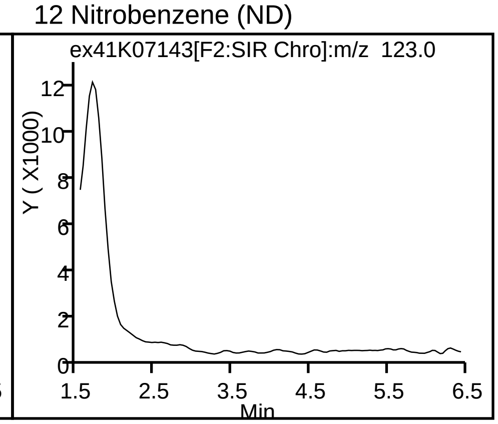
10 2,4,6-Trinitrotoluene (ND)



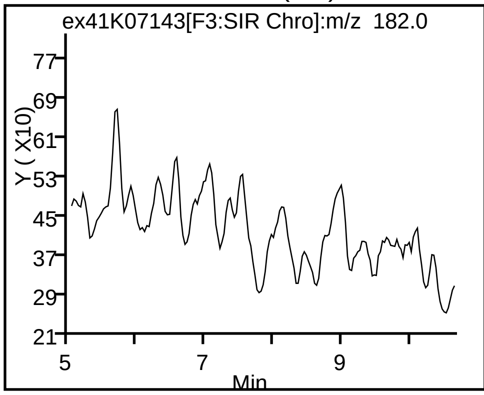
$ 11 Nitrobenzene-d5



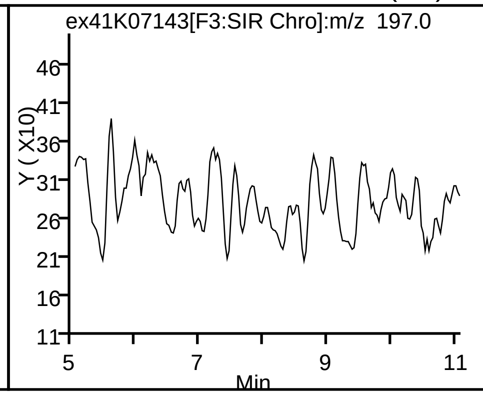
12 Nitrobenzene (ND)



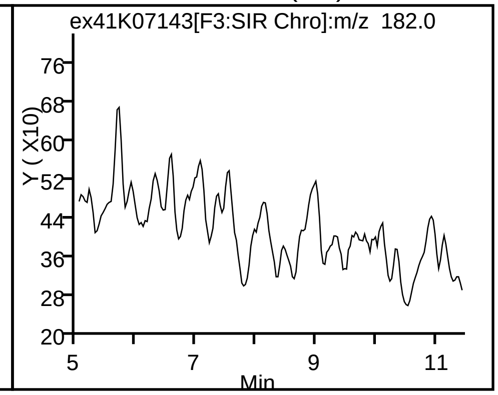
13 3,4-Dinitrotoluene (ND)



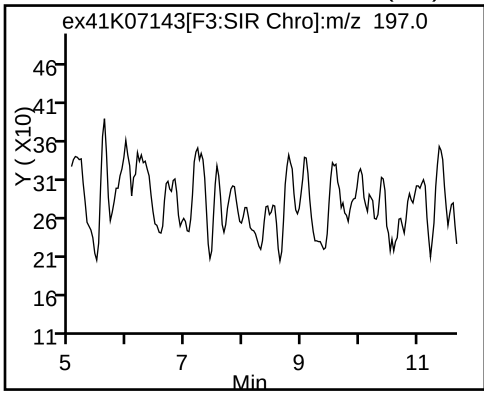
14 4-Amino-2,6-dinitrotoluene (ND)



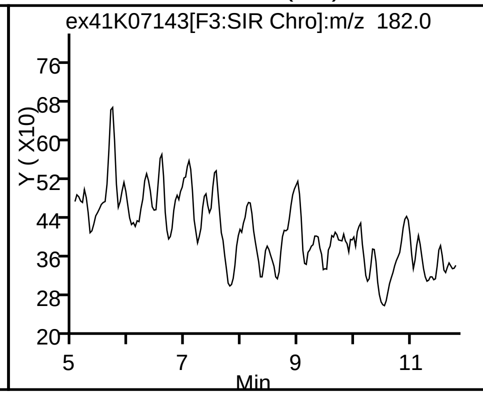
15 2,3-Dinitrotoluene (ND)



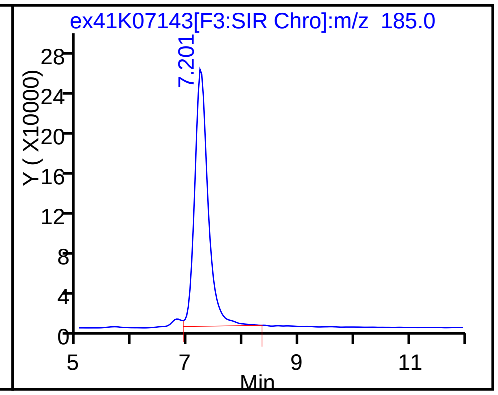
16 2-Amino-4,6-dinitrotoluene (ND)



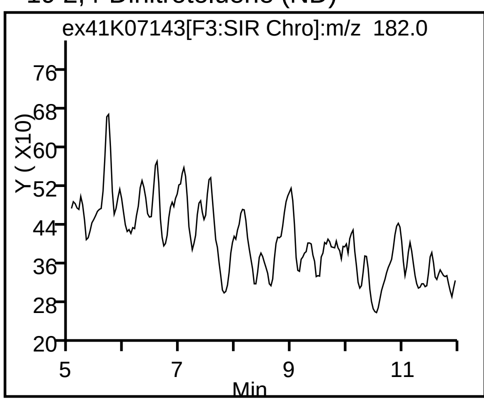
17 2,6-Dinitrotoluene (ND)



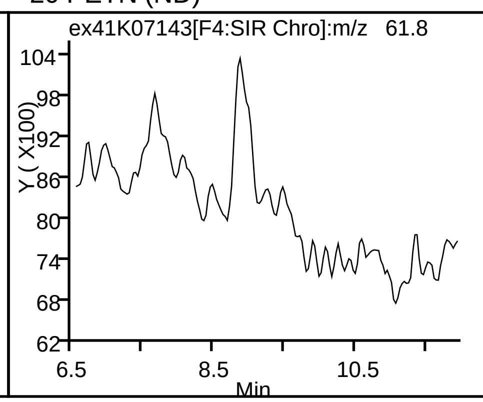
* 18 2,4-dinitrotoluene-d3



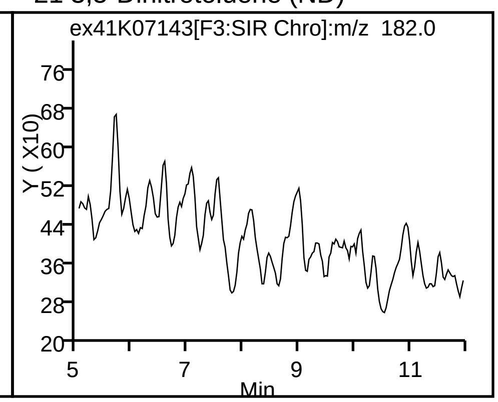
19 2,4-Dinitrotoluene (ND)



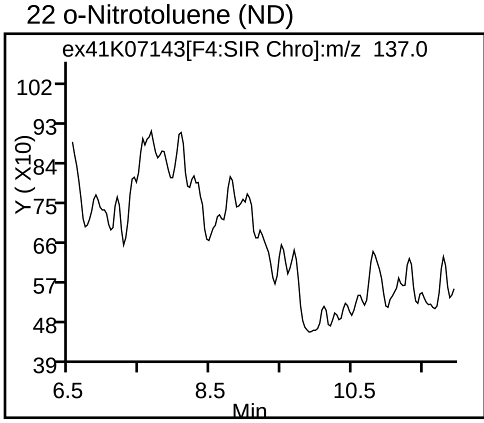
20 PETN (ND)



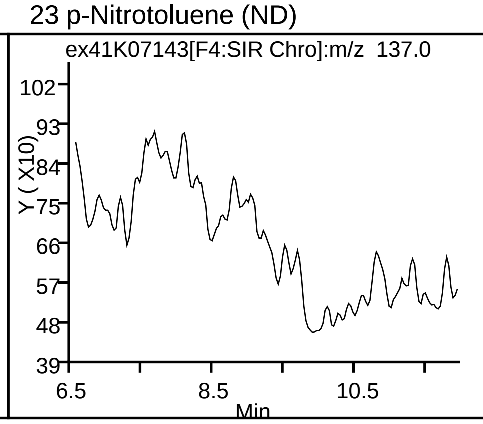
21 3,5-Dinitrotoluene (ND)



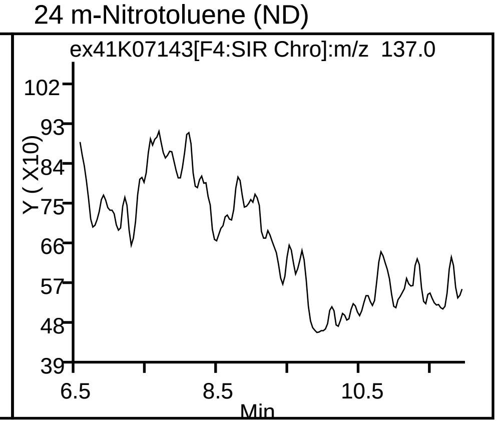
22 o-Nitrotoluene (ND)



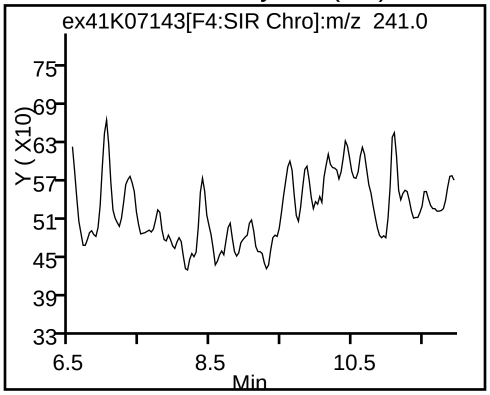
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP39 SD008   Lab Sample ID: 280-22000-8

Matrix: Solid   Lab File ID: ex41K07144.d

Analysis Method: 8321B   Date Collected: 10/22/2011 09:50

Extraction Method: 8330B   Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.18(g)   Date Analyzed: 11/09/2011 00:11

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	88		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07144.d		
Lims ID:	280-22000-B-8-C	Client ID:	CP39 SD008
Inject. Date:	09-Nov-2011 00:11:38	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-B-8-C 280-0002728-140		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	16
Lims Batch ID:	95320	Lims Sample ID:	140
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:48	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	09-Nov-2011 06:42:08

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		961545	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3444194	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1632254	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	694880	86.8			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4472505	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

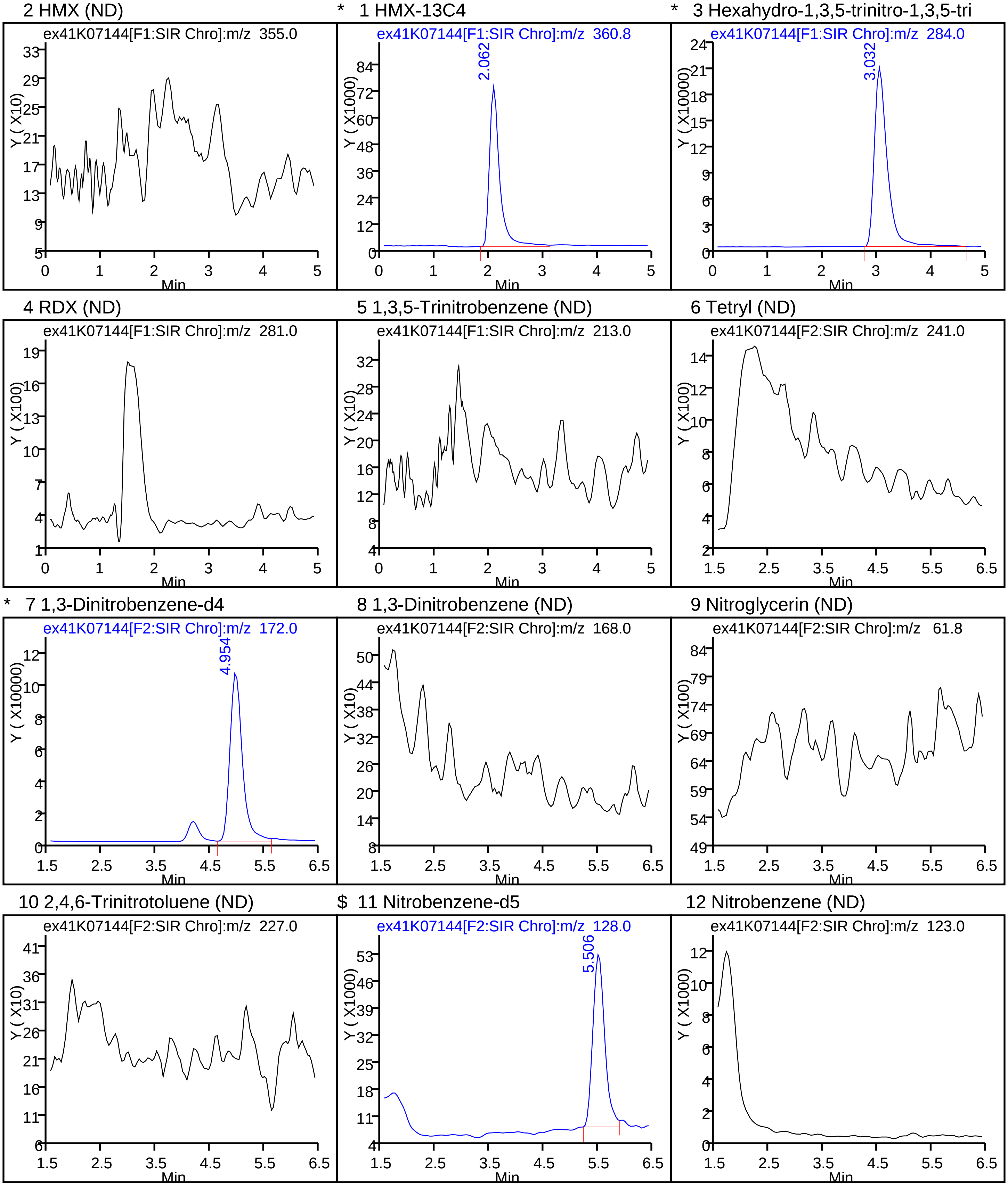
QC Flag Legend

Processing Flags
1 - Missing Peaks

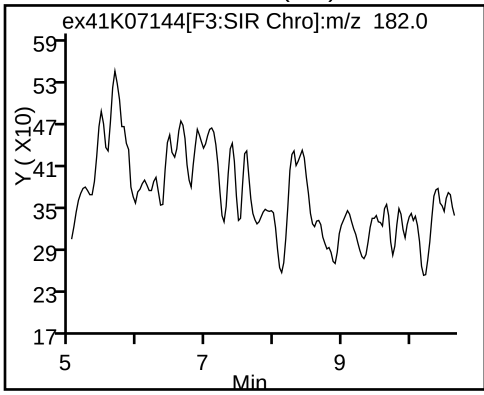
Report Date: 09-Nov-2011 06:55:57 | Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07144.d

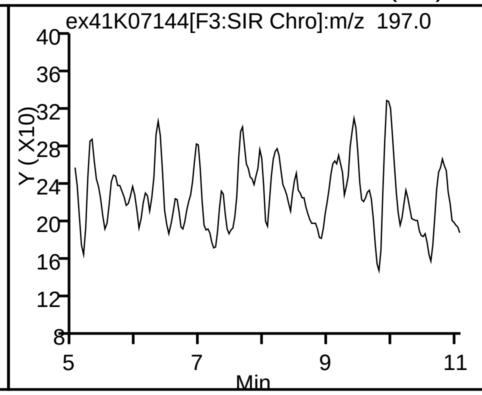
Injection Date:	09-Nov-2011 00:11:38	Limit Group:	LC - 8321A Expl
Client ID:	CP39 SD008	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	140
Operator ID:		Injection Vol:	40.00 ul



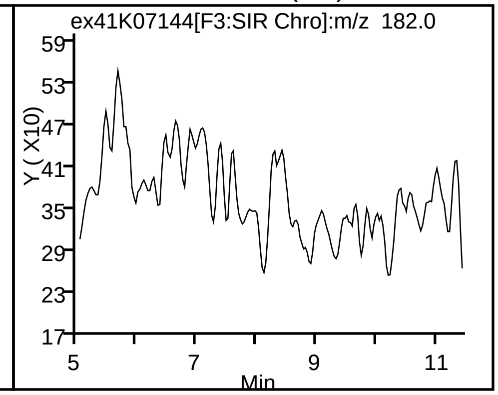
13 3,4-Dinitrotoluene (ND)



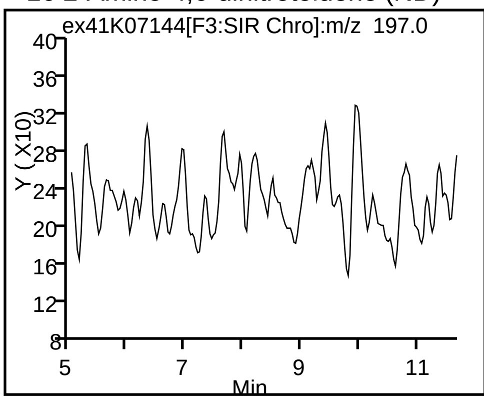
14 4-Amino-2,6-dinitrotoluene (ND)



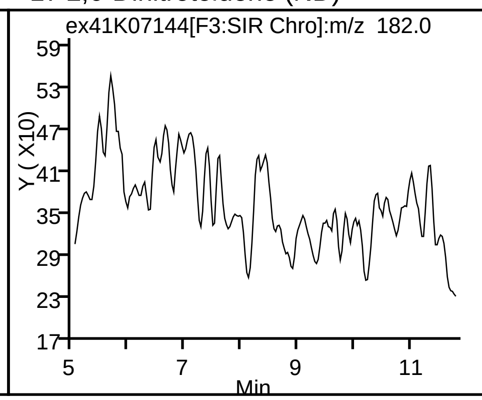
15 2,3-Dinitrotoluene (ND)



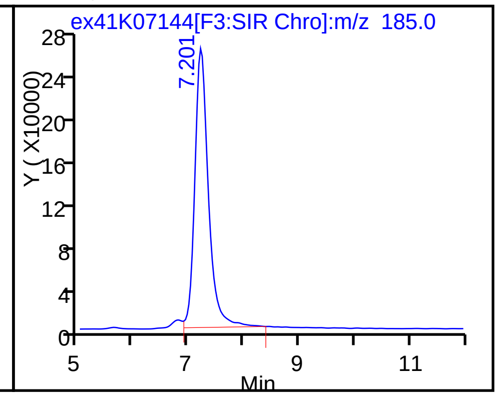
16 2-Amino-4,6-dinitrotoluene (ND)



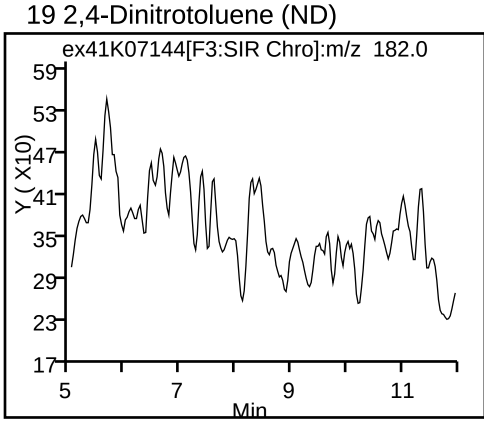
17 2,6-Dinitrotoluene (ND)



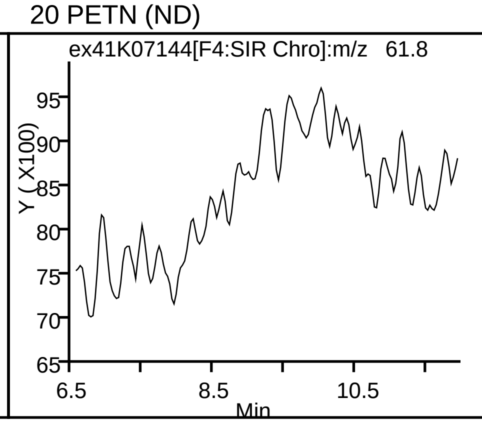
* 18 2,4-dinitrotoluene-d3



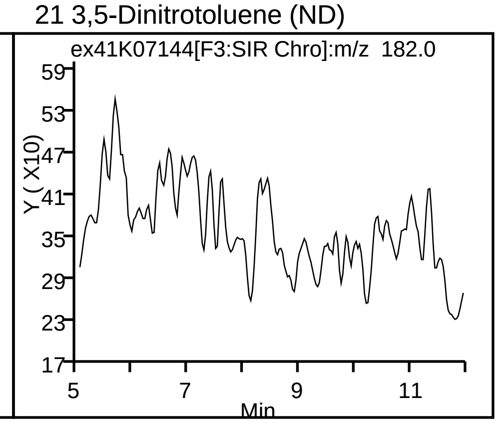
19 2,4-Dinitrotoluene (ND)



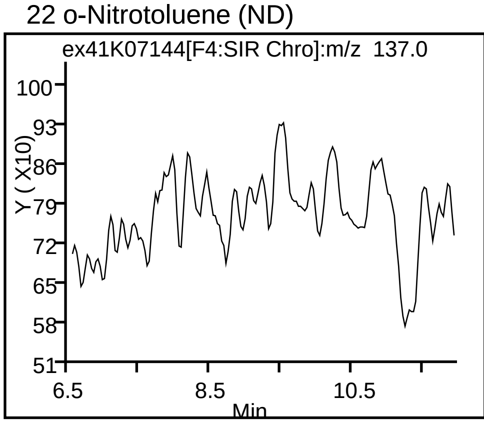
20 PETN (ND)



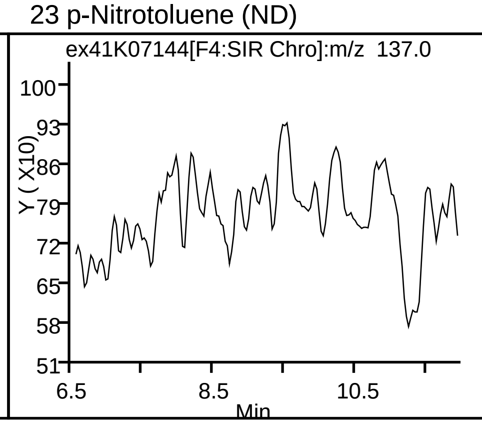
21 3,5-Dinitrotoluene (ND)



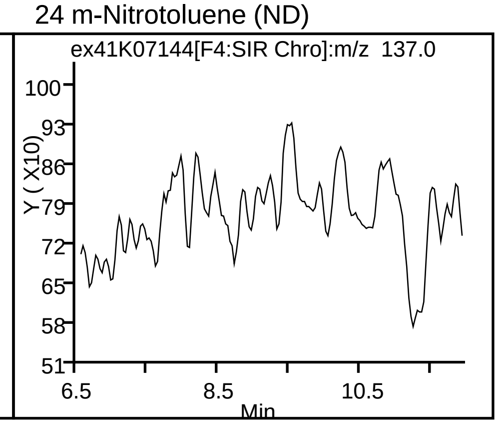
22 o-Nitrotoluene (ND)



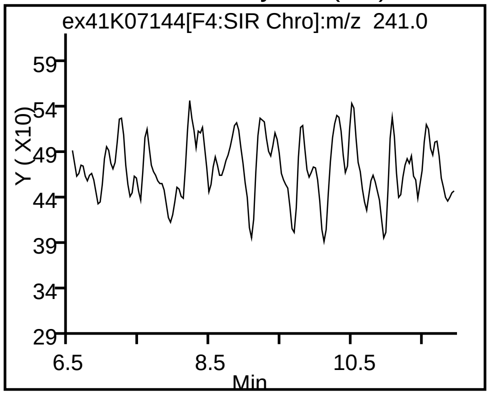
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver	Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP40 SD009	Lab Sample ID: 280-22000-9

Matrix: Solid	Lab File ID: ex41K07146.d

Analysis Method: 8321B	Date Collected: 10/22/2011 10:20

Extraction Method: 8330B	Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.42(g)	Date Analyzed: 11/09/2011 00:38

Con. Extract Vol.: 40(mL)	Dilution Factor: 1

Injection Volume: 40(uL)	GC Column: IonPac	ID: 2(mm)

% Moisture:	GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320	Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07146.d		
Lims ID:	280-22000-A-9-D	Client ID:	CP40 SD009
Inject. Date:	09-Nov-2011 00:38:46	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-A-9-D 280-0002728-142		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	17
Lims Batch ID:	95320	Lims Sample ID:	142
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:57	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	09-Nov-2011 06:42:39

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		984646	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3409122	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		2010286	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	826869	83.8			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.170	0.031		5123033	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.288							

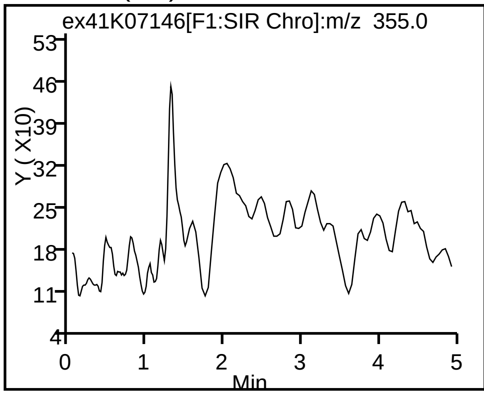
QC Flag Legend

Processing Flags
1 - Missing Peaks

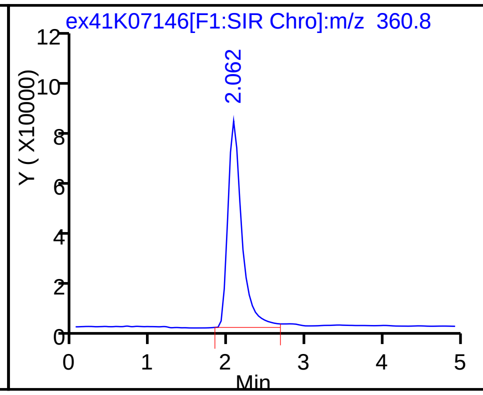
Report Date: 09-Nov-2011 06:55:58 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07146.d

Injection Date:	09-Nov-2011 00:38:46	Limit Group:	LC - 8321A Expl
Client ID:	CP40 SD009	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	142
Operator ID:		Injection Vol:	40.00 ul

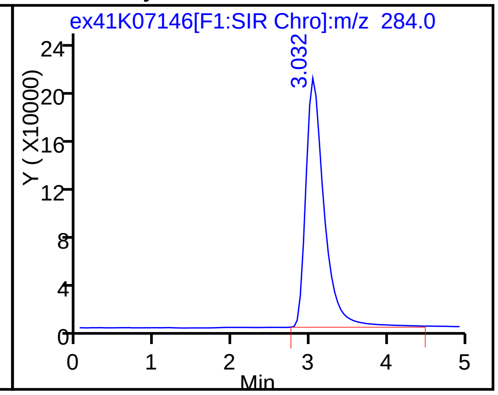
2 HMX (ND)



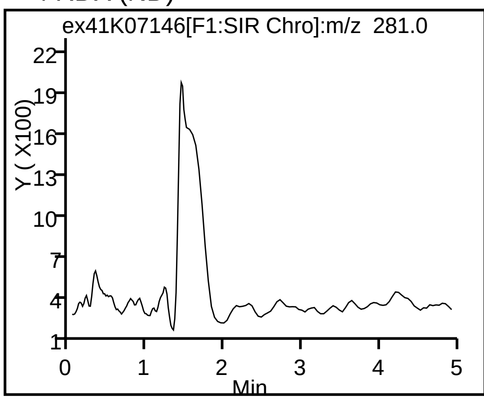
* 1 HMX-13C4



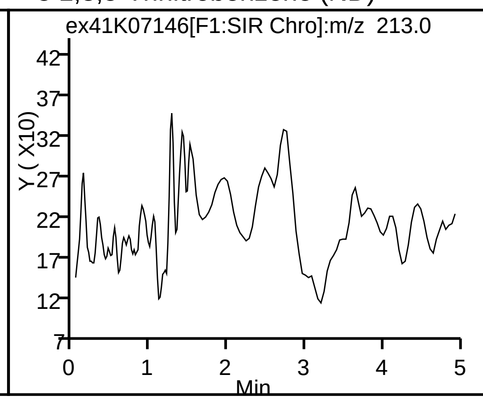
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



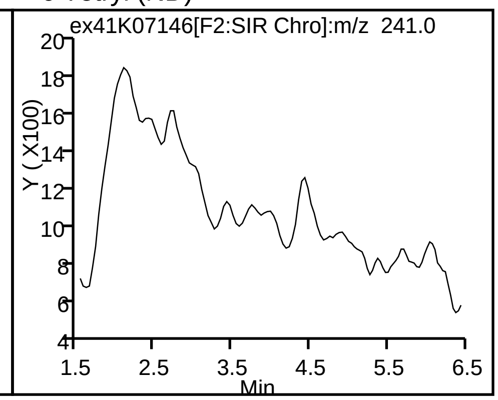
4 RDX (ND)



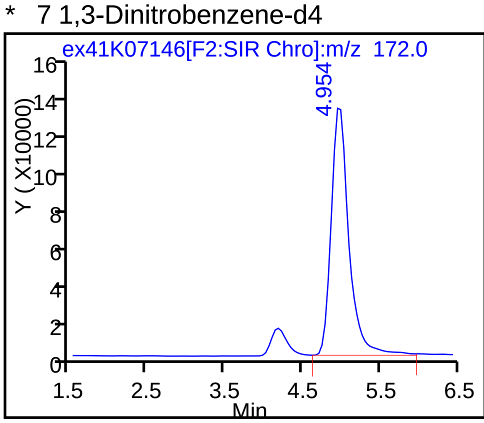
5 1,3,5-Trinitrobenzene (ND)



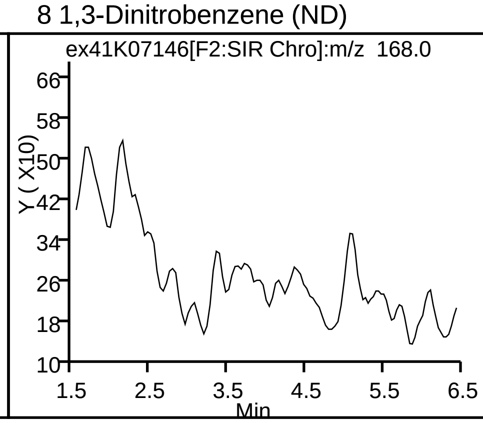
6 Tetryl (ND)



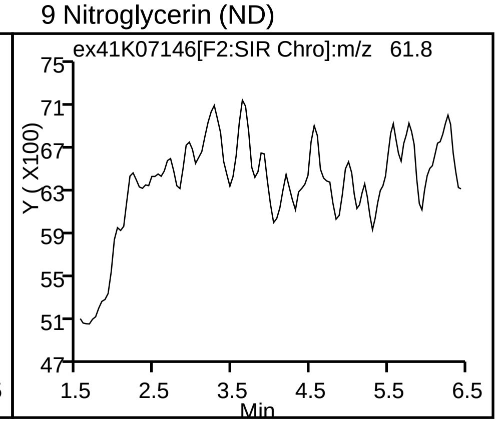
* 7 1,3-Dinitrobenzene-d4



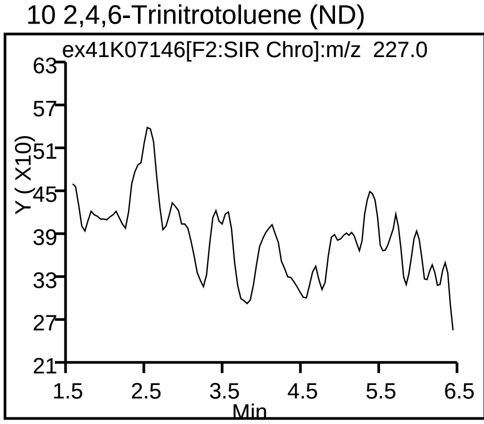
8 1,3-Dinitrobenzene (ND)



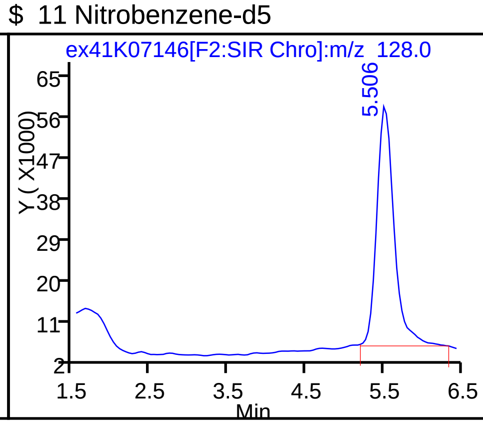
9 Nitroglycerin (ND)



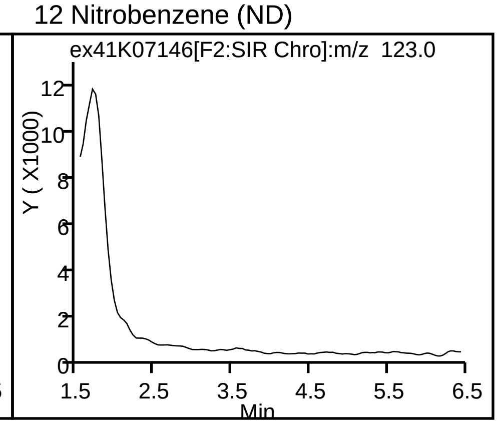
10 2,4,6-Trinitrotoluene (ND)



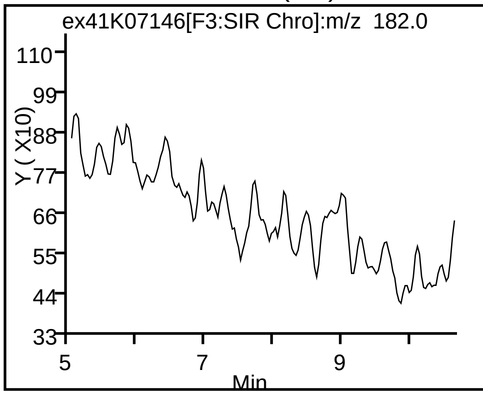
$ 11 Nitrobenzene-d5



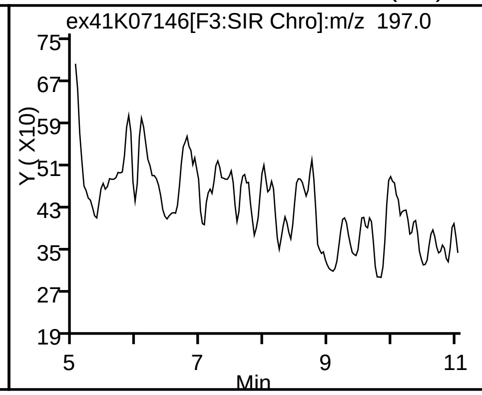
12 Nitrobenzene (ND)



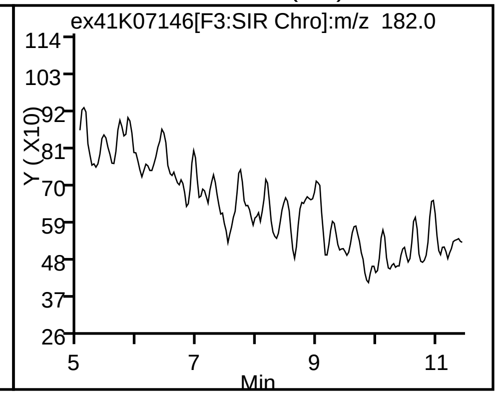
13 3,4-Dinitrotoluene (ND)



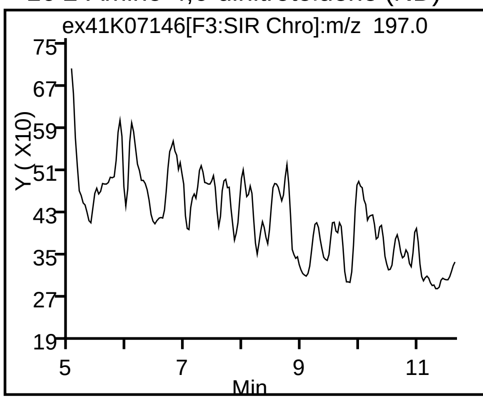
14 4-Amino-2,6-dinitrotoluene (ND)



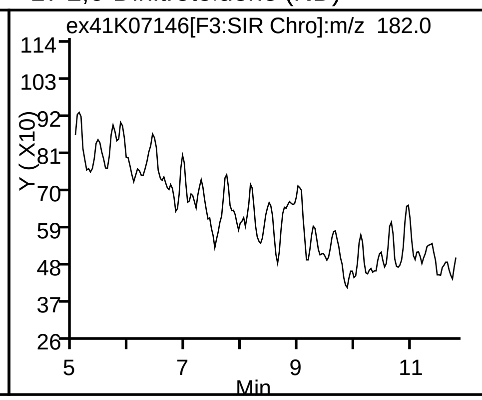
15 2,3-Dinitrotoluene (ND)



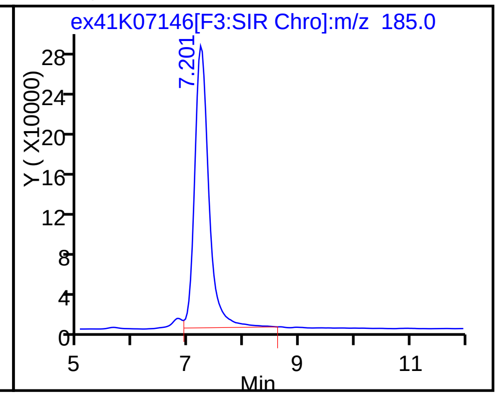
16 2-Amino-4,6-dinitrotoluene (ND)



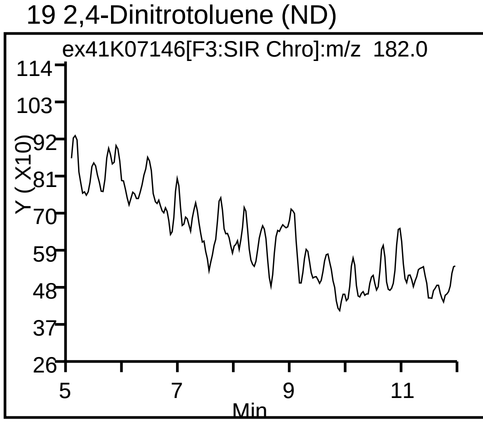
17 2,6-Dinitrotoluene (ND)



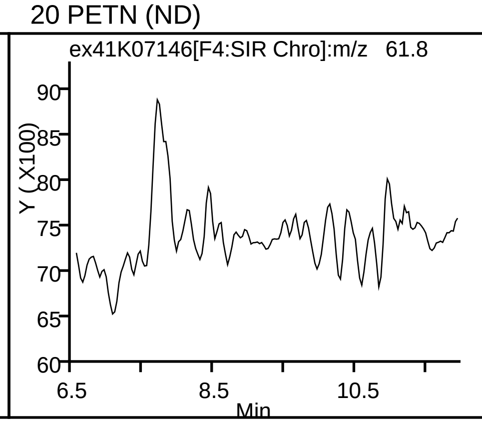
* 18 2,4-dinitrotoluene-d3



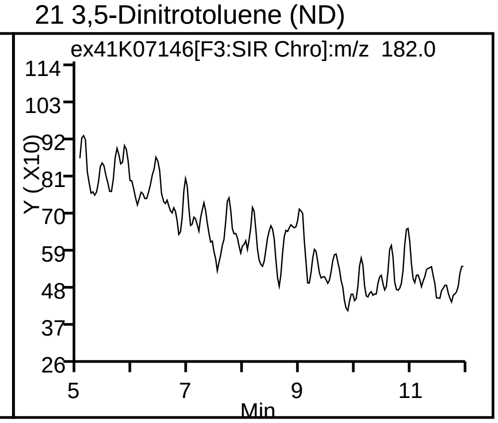
19 2,4-Dinitrotoluene (ND)



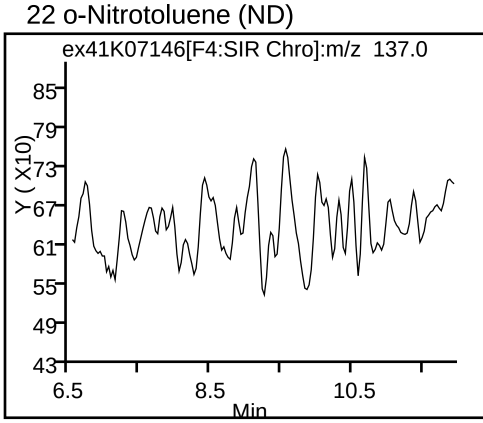
20 PETN (ND)



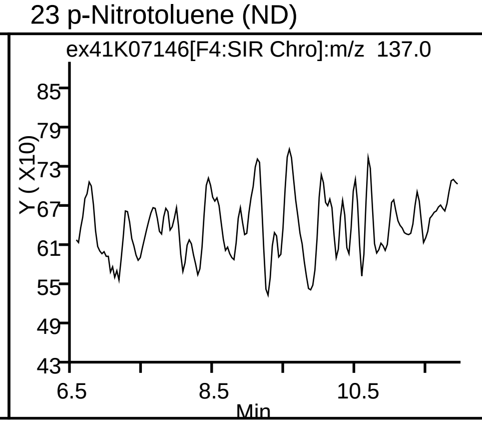
21 3,5-Dinitrotoluene (ND)



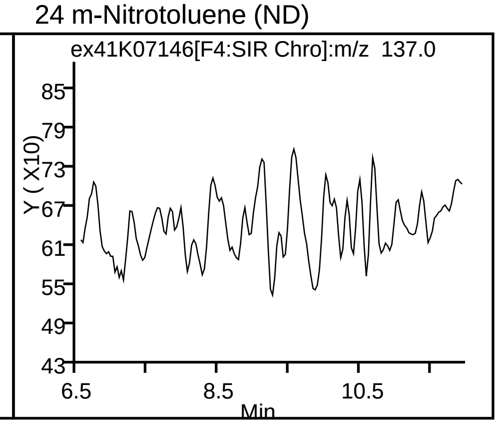
22 o-Nitrotoluene (ND)



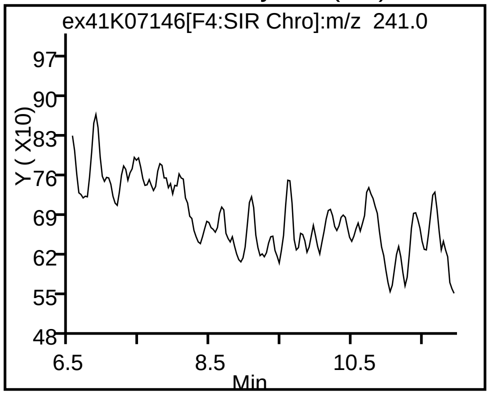
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP41 SD010 | Lab Sample ID: 280-22000-10

Matrix: Solid | Lab File ID: ex41K07147.d

Analysis Method: 8321B | Date Collected: 10/22/2011 10:10

Extraction Method: 8330B | Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.11(g) | Date Analyzed: 11/09/2011 00:52

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81	M	68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07147.d		
Lims ID:	280-22000-A-10-D	Client ID:	CP41 SD010
Inject. Date:	09-Nov-2011 00:52:20	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-A-10-D 280-0002728-143		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	18
Lims Batch ID:	95320	Lims Sample ID:	143
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:57	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	09-Nov-2011 06:42:54

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		921225	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3165587	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1802952	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										M
2	128.0	5.506	5.472	0.034	1.111	706227	79.6			M
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.170	0.031		5096959	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.288							

QC Flag Legend

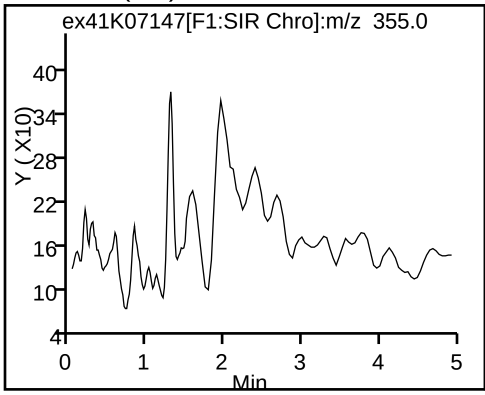
Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

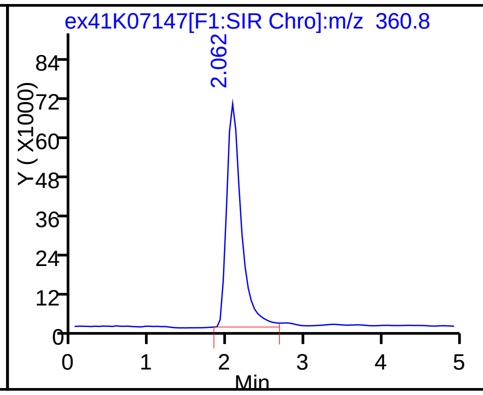
Report Date: 09-Nov-2011 06:55:59 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07147.d

Injection Date:	09-Nov-2011 00:52:20	Limit Group:	LC - 8321A Expl
Client ID:	CP41 SD010	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	143
Operator ID:		Injection Vol:	40.00 ul

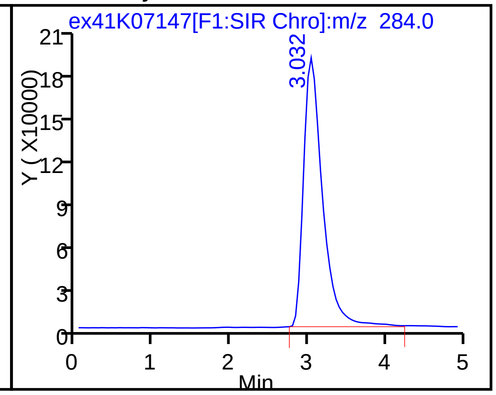
2 HMX (ND)



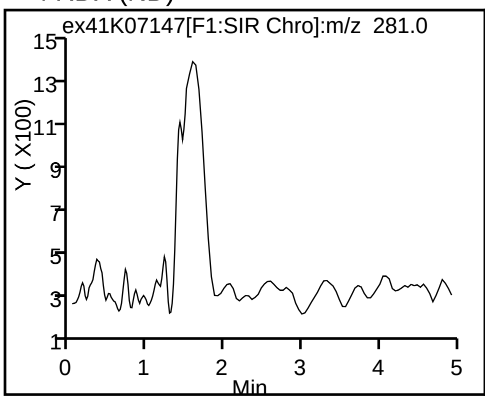
* 1 HMX-13C4



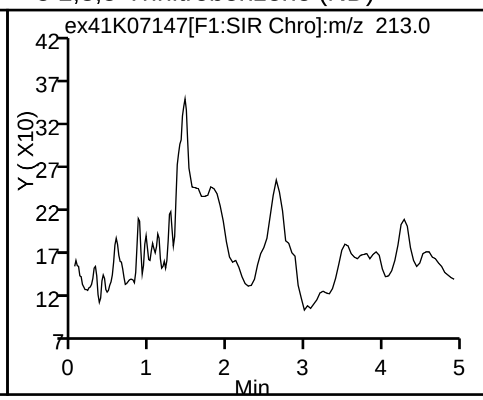
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



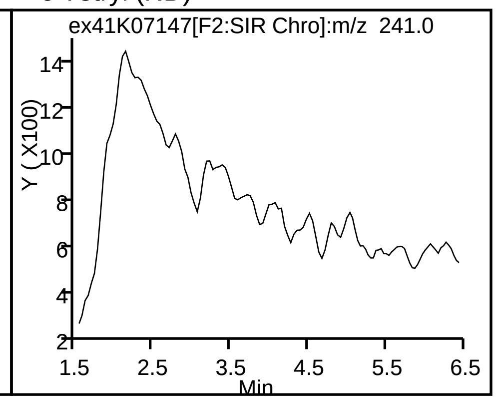
4 RDX (ND)



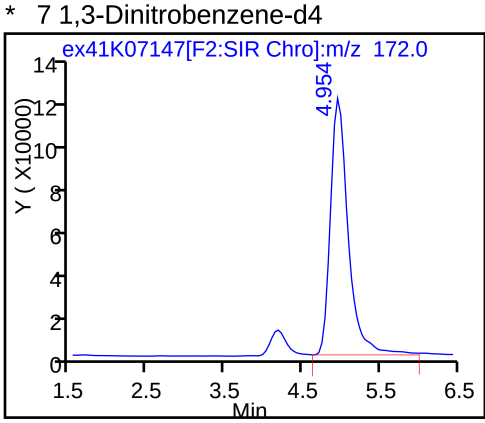
5 1,3,5-Trinitrobenzene (ND)



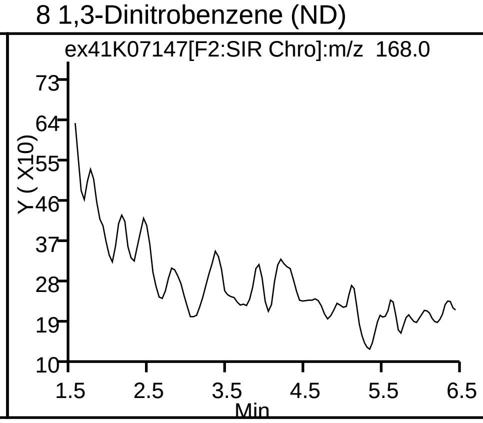
6 Tetryl (ND)



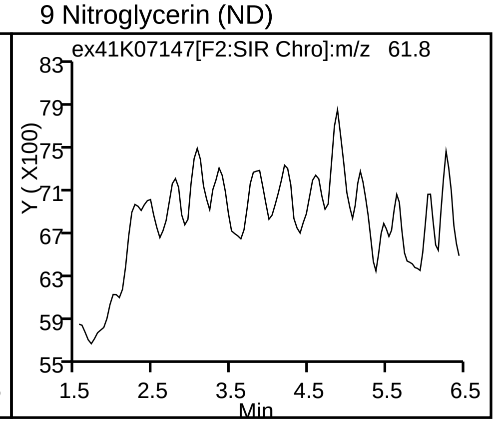
* 7 1,3-Dinitrobenzene-d4



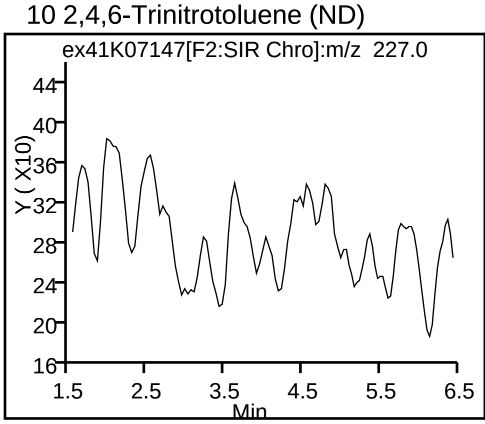
8 1,3-Dinitrobenzene (ND)



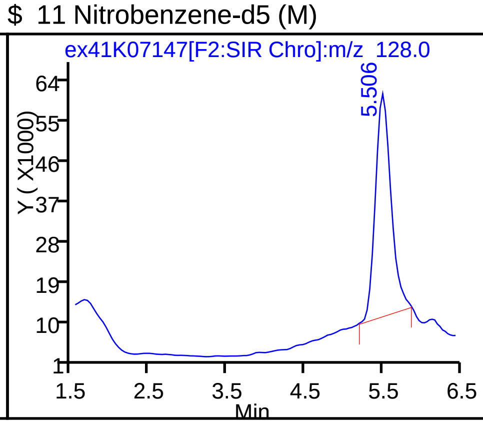
9 Nitroglycerin (ND)



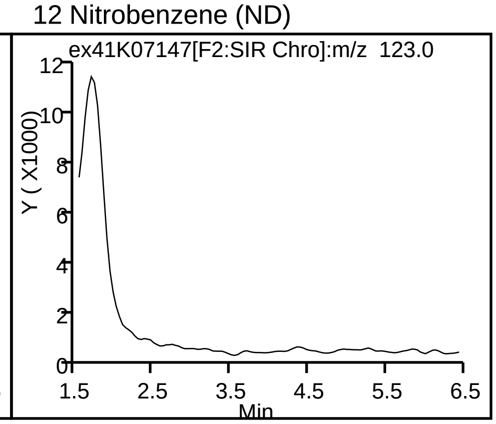
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5 (M)

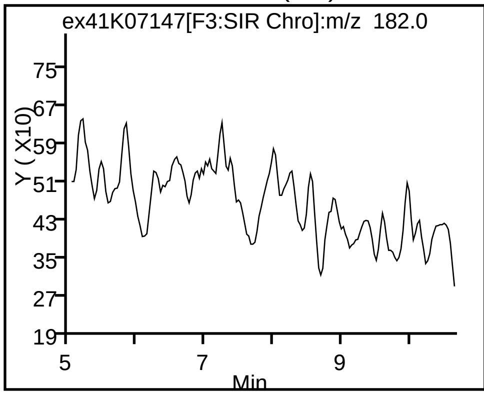


12 Nitrobenzene (ND)

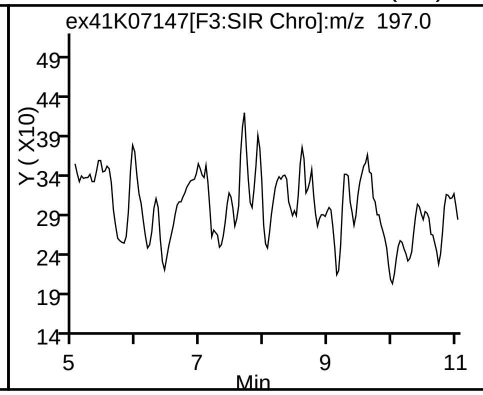


Report Date: 09-Nov-2011 06:55:59 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07147.d

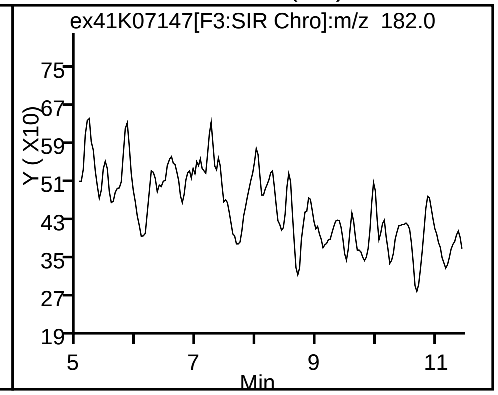
13 3,4-Dinitrotoluene (ND)



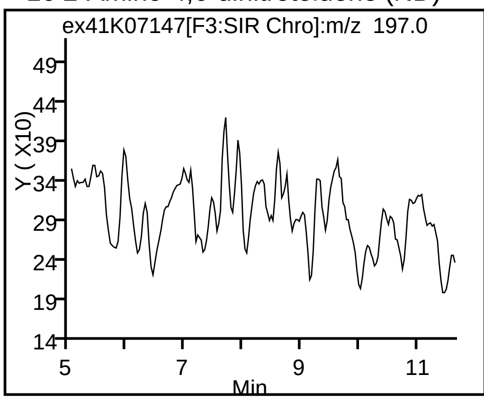
14 4-Amino-2,6-dinitrotoluene (ND)



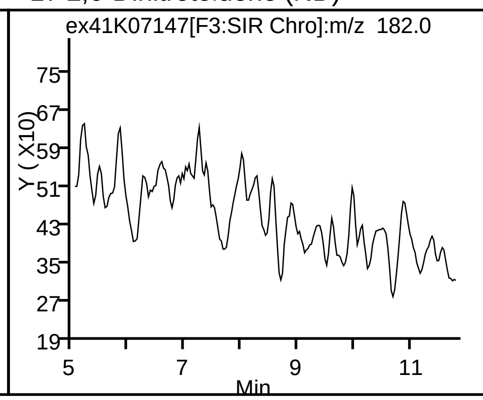
15 2,3-Dinitrotoluene (ND)



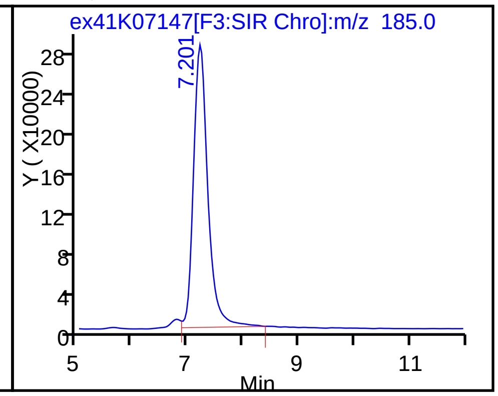
16 2-Amino-4,6-dinitrotoluene (ND)



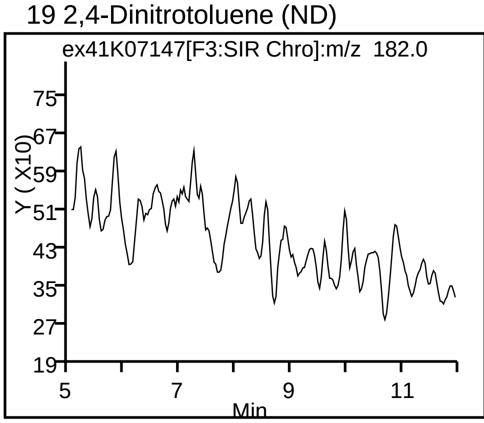
17 2,6-Dinitrotoluene (ND)



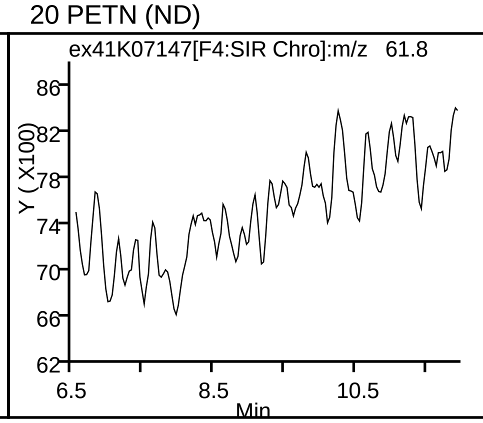
* 18 2,4-dinitrotoluene-d3



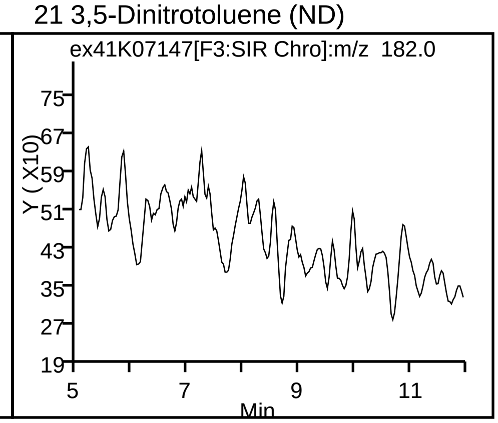
19 2,4-Dinitrotoluene (ND)



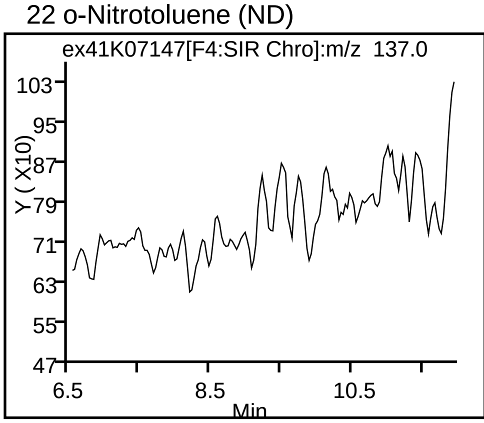
20 PETN (ND)



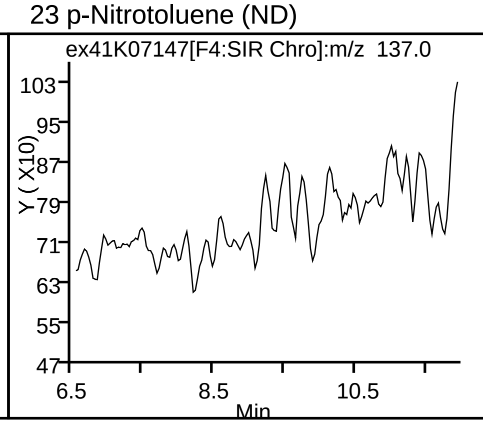
21 3,5-Dinitrotoluene (ND)



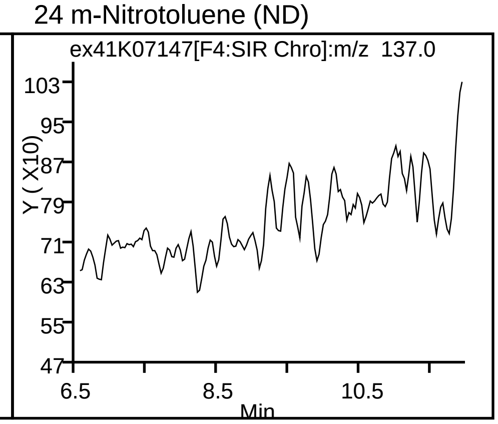
22 o-Nitrotoluene (ND)



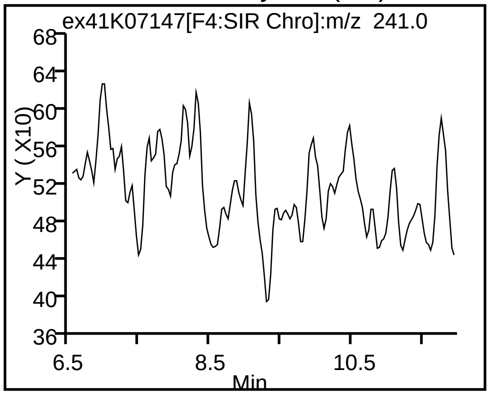
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



Report Date: 09-Nov-2011 06:55:59 Chrom Revision: 1.2 13-Jul-2011 10:43:06

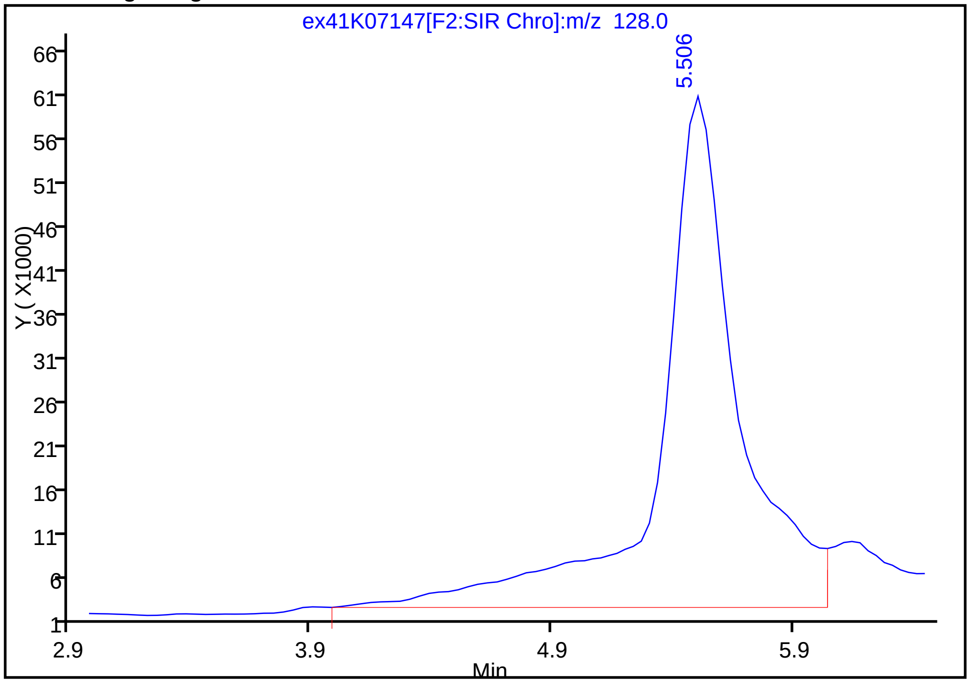
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07147.d		
Injection Date:	09-Nov-2011 00:52:20	Limit Group:	LC - 8321A Expl
Client ID:	CP41 SD010	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	143
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.47, Det: F2:SIR

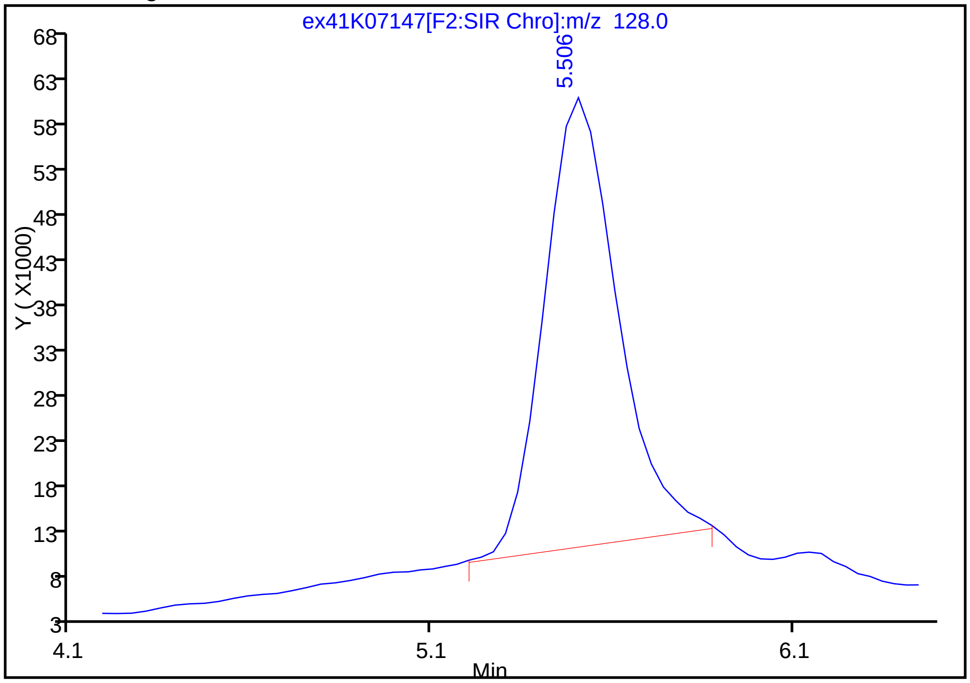
Processing Integration Results

RT: 5.51
Response: 1425547
Amount: 163.9886



Manual Integration Results

RT: 5.51
Response: 706227
Amount: 79.634551



Reviewer: meyera, 09-Nov-2011 06:42:54
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM I

LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP41 SD011 | Lab Sample ID: 280-22000-11

Matrix: Solid | Lab File ID: ex41K07148.d

Analysis Method: 8321B | Date Collected: 10/22/2011 10:10

Extraction Method: 8330B | Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.51(g) | Date Analyzed: 11/09/2011 01:05

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07148.d		
Lims ID:	280-22000-A-11-D	Client ID:	CP41 SD011
Inject. Date:	09-Nov-2011 01:05:54	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-A-11-D 280-0002728-144		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	19
Lims Batch ID:	95320	Lims Sample ID:	144
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:57	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	09-Nov-2011 06:43:05

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		837728	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2874503	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1610154	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	644934	81.5			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.170	0.031		4310849	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.288							

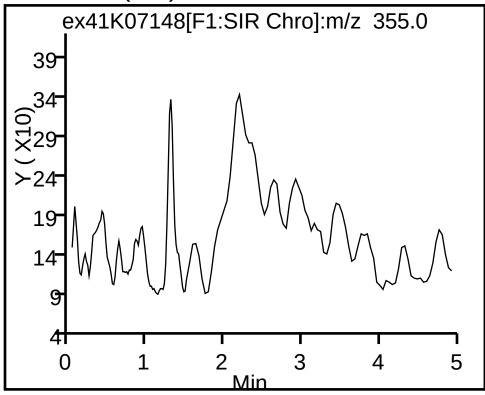
QC Flag Legend

Processing Flags
1 - Missing Peaks

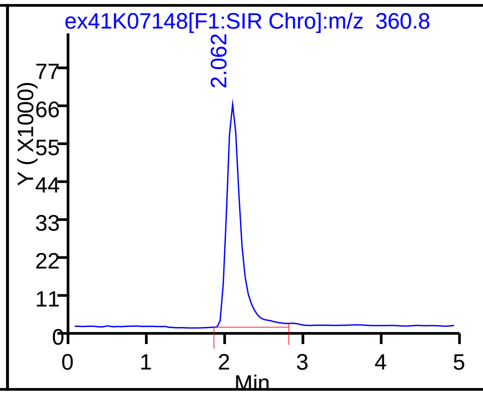
Report Date: 09-Nov-2011 06:55:59 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07148.d

Injection Date:	09-Nov-2011 01:05:54	Limit Group:	LC - 8321A Expl
Client ID:	CP41 SD011	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	144
Operator ID:		Injection Vol:	40.00 ul

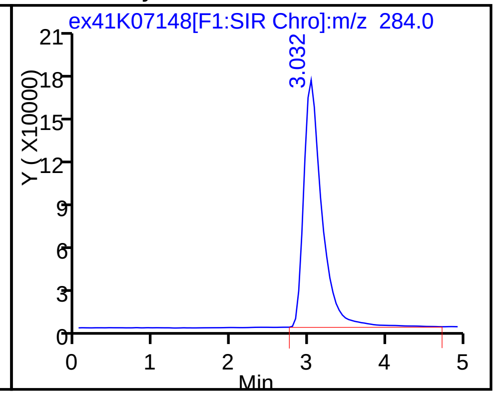
2 HMX (ND)



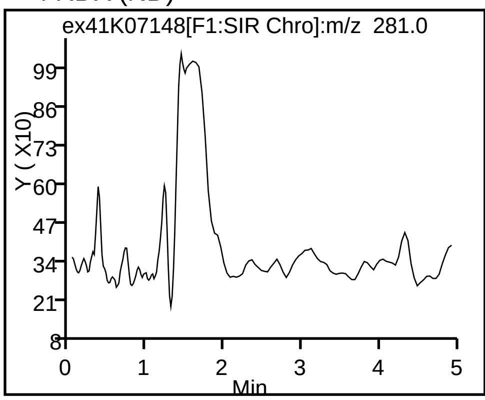
* 1 HMX-13C4



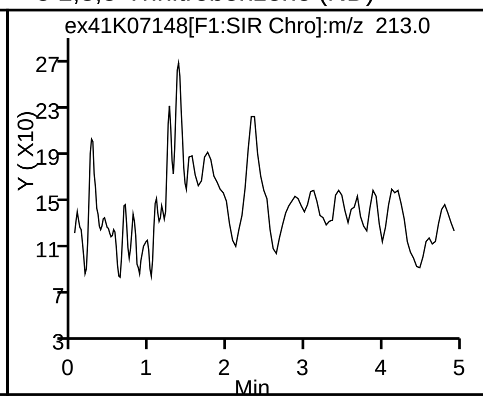
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



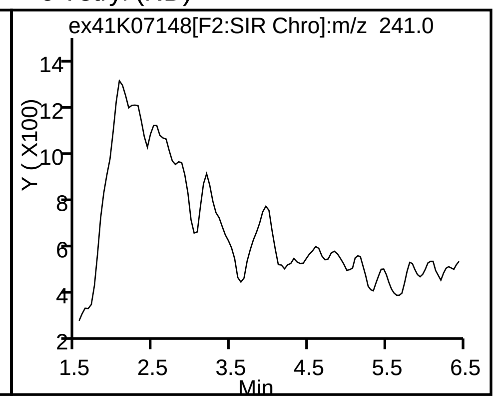
4 RDX (ND)



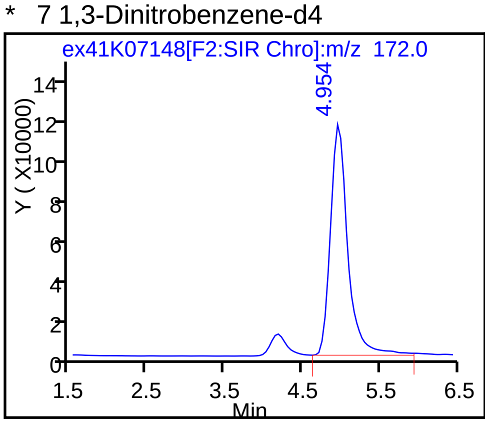
5 1,3,5-Trinitrobenzene (ND)



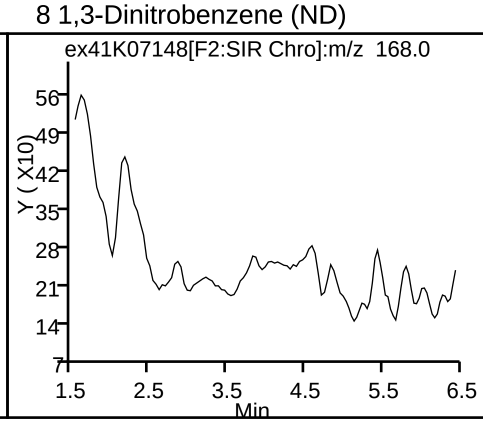
6 Tetryl (ND)



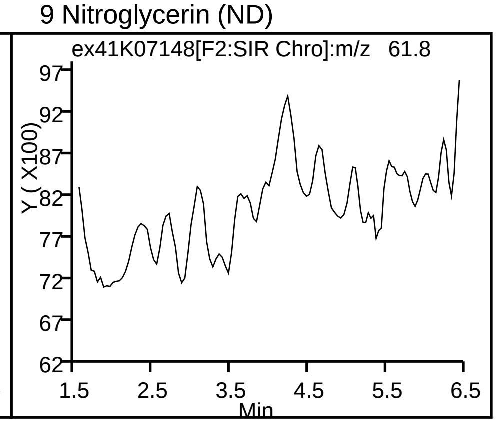
* 7 1,3-Dinitrobenzene-d4



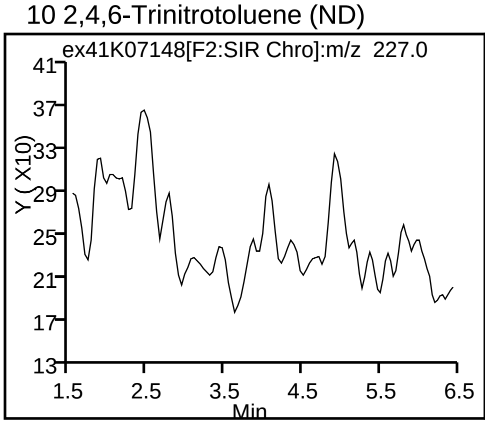
8 1,3-Dinitrobenzene (ND)



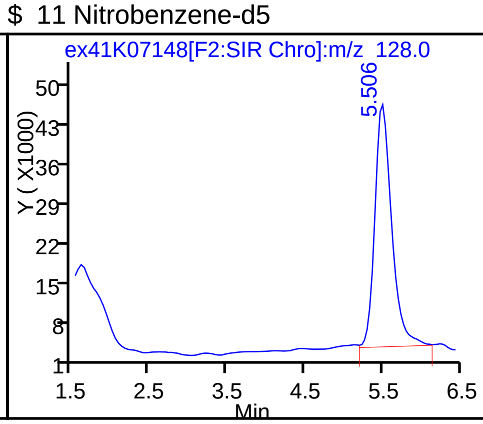
9 Nitroglycerin (ND)



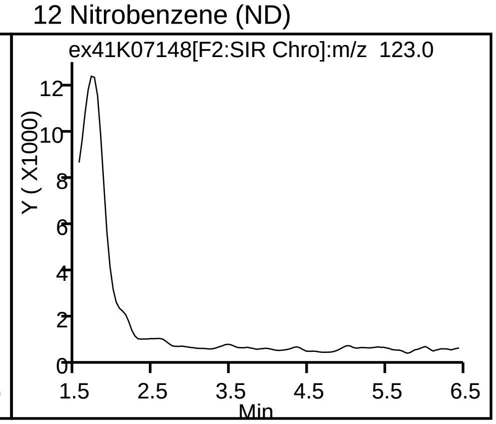
10 2,4,6-Trinitrotoluene (ND)



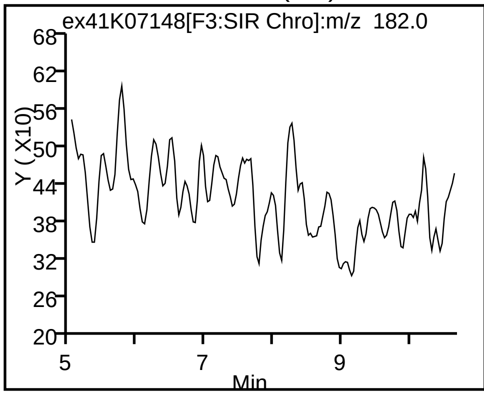
$ 11 Nitrobenzene-d5



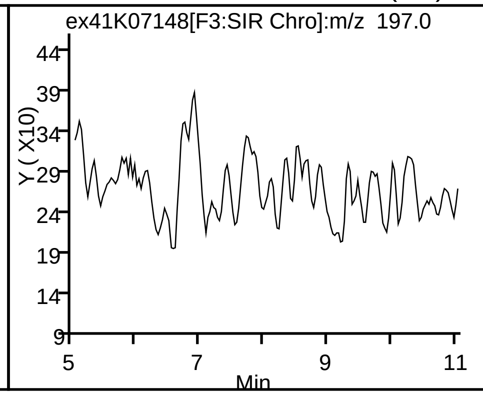
12 Nitrobenzene (ND)



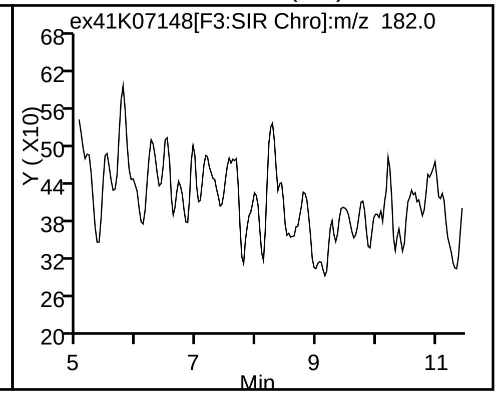
13 3,4-Dinitrotoluene (ND)



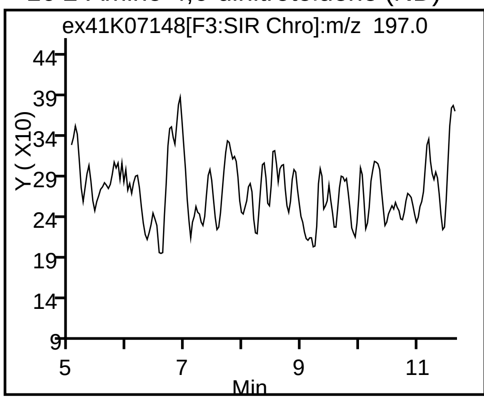
14 4-Amino-2,6-dinitrotoluene (ND)



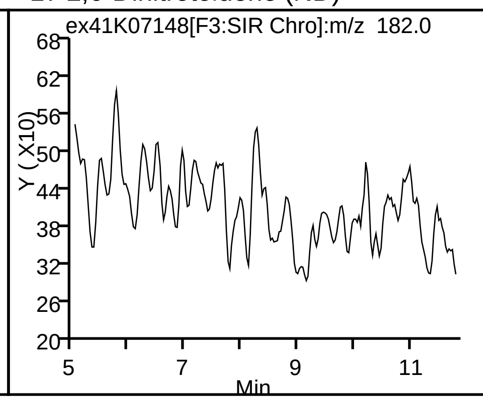
15 2,3-Dinitrotoluene (ND)



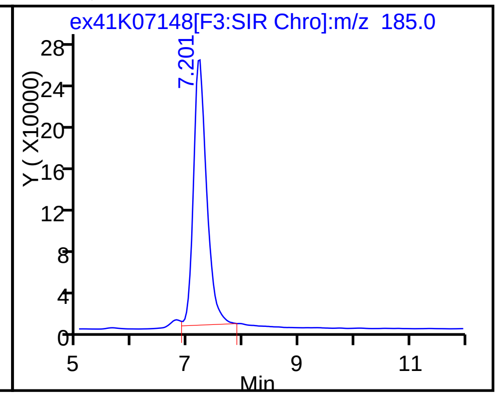
16 2-Amino-4,6-dinitrotoluene (ND)



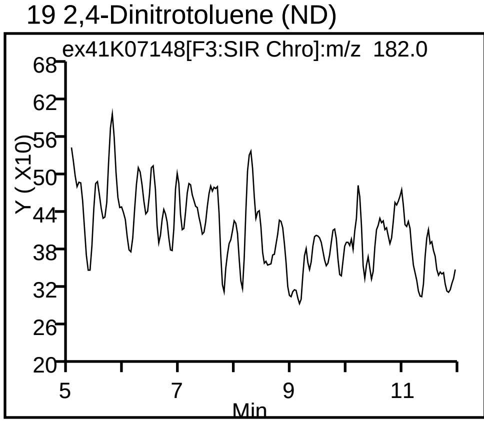
17 2,6-Dinitrotoluene (ND)



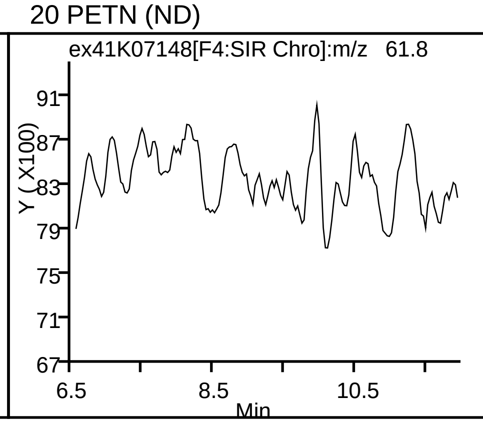
* 18 2,4-dinitrotoluene-d3



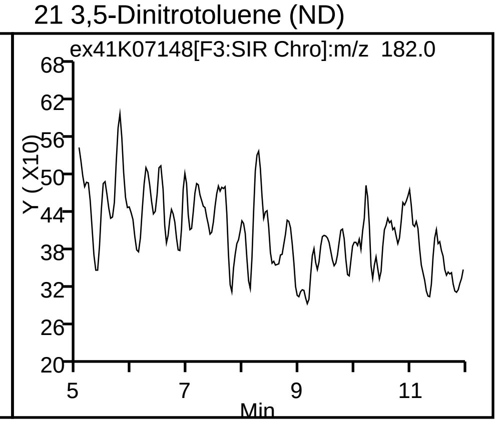
19 2,4-Dinitrotoluene (ND)



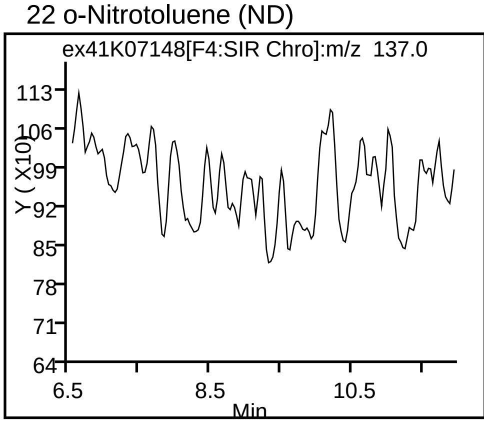
20 PETN (ND)



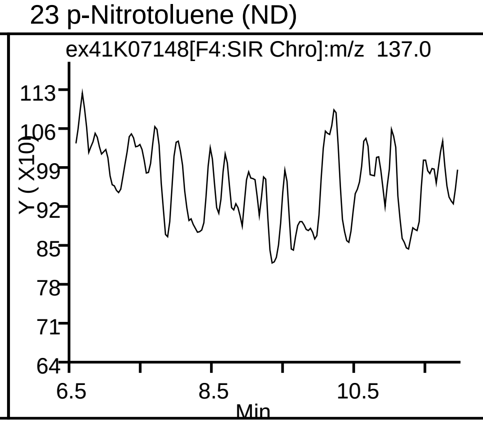
21 3,5-Dinitrotoluene (ND)



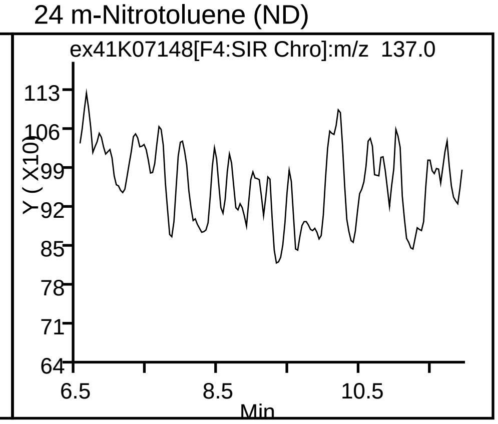
22 o-Nitrotoluene (ND)



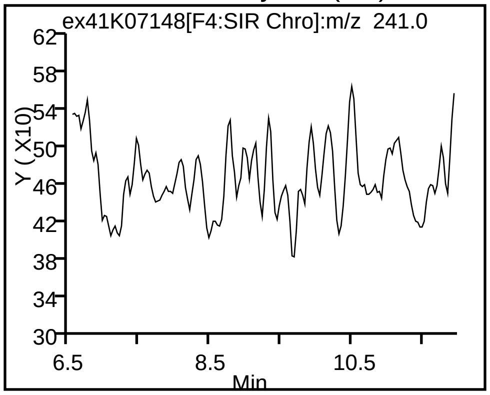
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP42 SD012   Lab Sample ID: 280-22000-12

Matrix: Solid   Lab File ID: ex41K07149.d

Analysis Method: 8321B   Date Collected: 10/22/2011 10:30

Extraction Method: 8330B   Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.40(g)   Date Analyzed: 11/09/2011 01:19

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0050
121-82-4	RDX	0.012	U	0.096	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

Report Date: 09-Nov-2011 06:56:00 Chrom Revision: 1.2 13-Jul-2011 10:43:06

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07149.d
Lims ID: 280-22000-A-12-F Client ID: CP42 SD012
Inject. Date: 09-Nov-2011 01:19:29 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-22000-A-12-F 280-0002728-145
Misc. Info.: ex41K07 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 20
Lims Batch ID: 95320 Lims Sample ID: 145
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m
Last Update: 09-Nov-2011 06:55:57 Calib Date: 07-Nov-2011 17:14:37
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

First Level Reviewer: meyera Date: 09-Nov-2011 06:43:15

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		656737	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2850563	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1660448	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	645917	79.1			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.170	0.031		4600553	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.288							

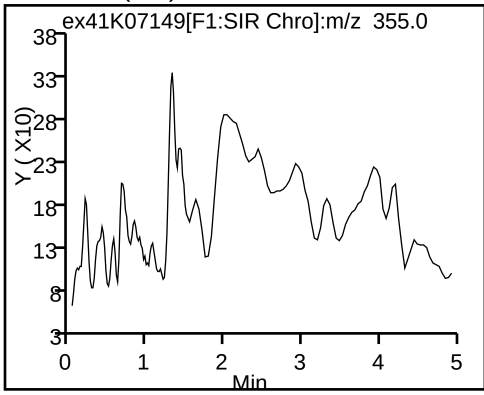
QC Flag Legend

Processing Flags
1 - Missing Peaks

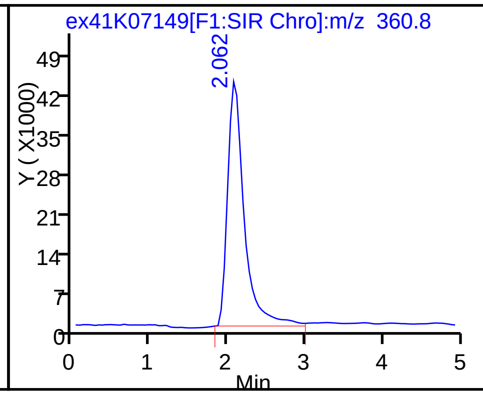
Report Date: 09-Nov-2011 06:56:00 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07149.d		
Injection Date:	09-Nov-2011 01:19:29	Limit Group:	LC - 8321A Expl
Client ID:	CP42 SD012	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	145
Operator ID:		Injection Vol:	40.00 ul

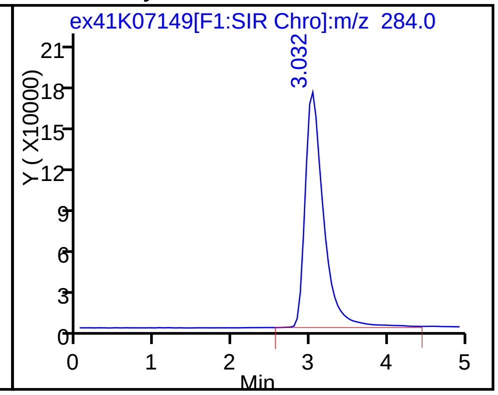
2 HMX (ND)



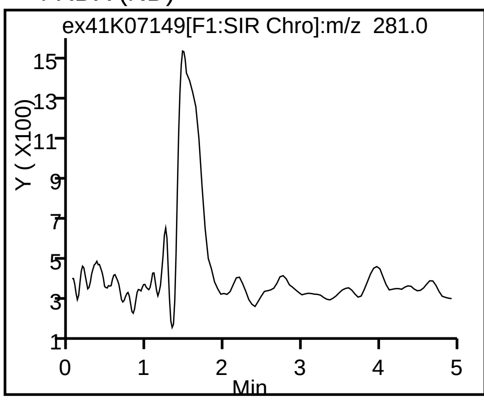
* 1 HMX-13C4



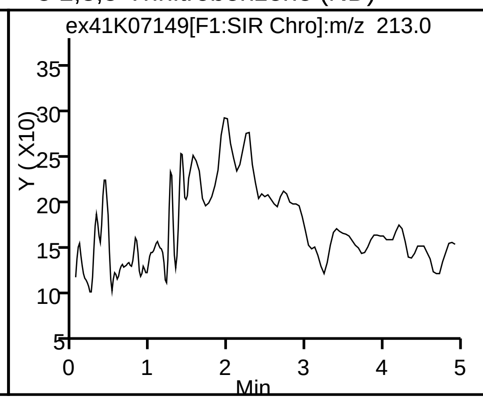
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



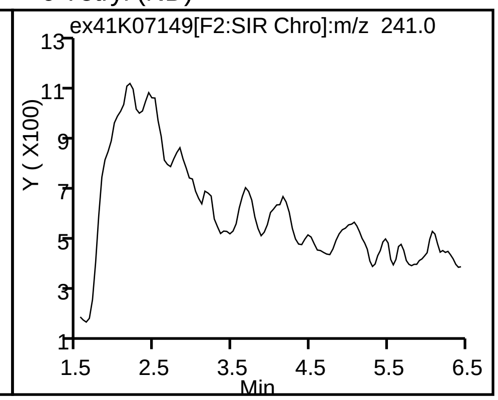
4 RDX (ND)



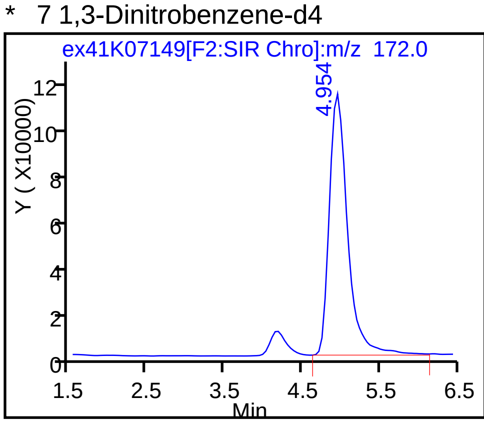
5 1,3,5-Trinitrobenzene (ND)



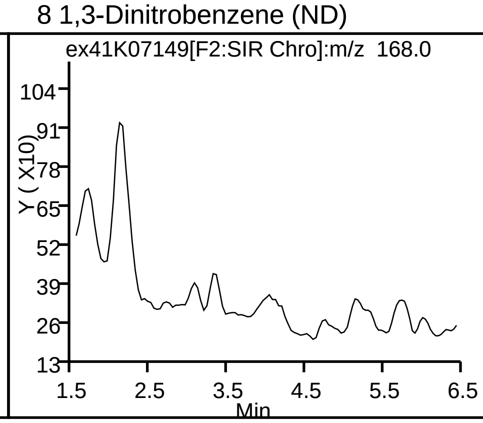
6 Tetryl (ND)



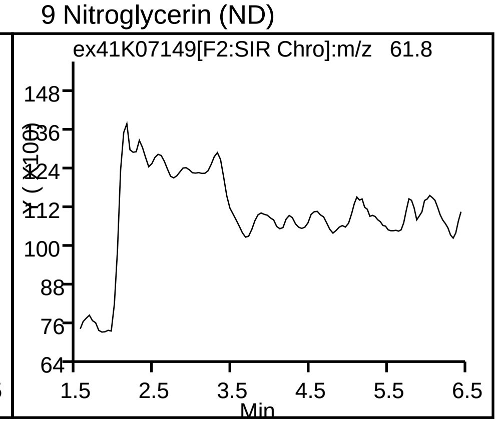
* 7 1,3-Dinitrobenzene-d4



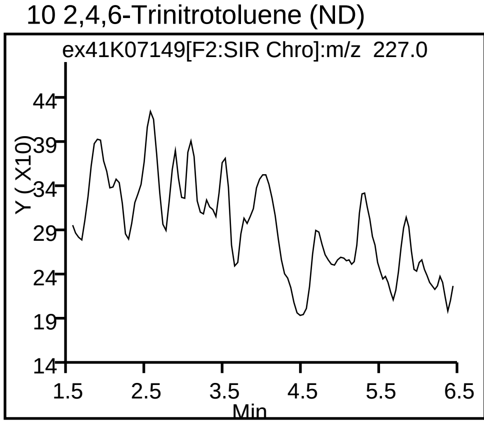
8 1,3-Dinitrobenzene (ND)



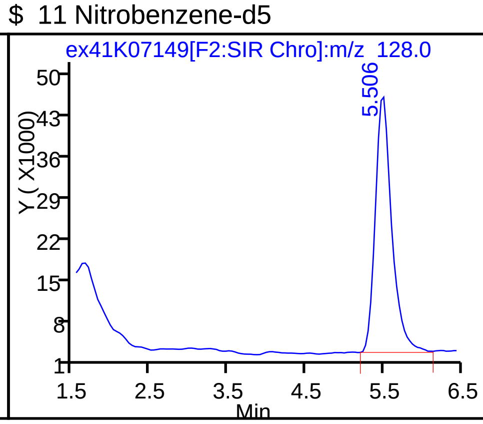
9 Nitroglycerin (ND)



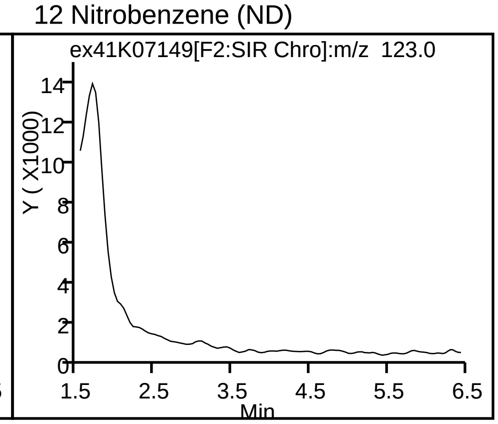
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

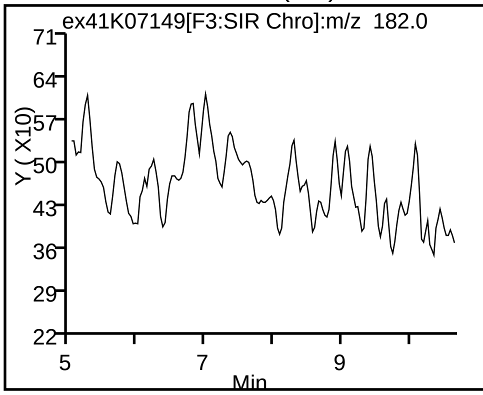


12 Nitrobenzene (ND)

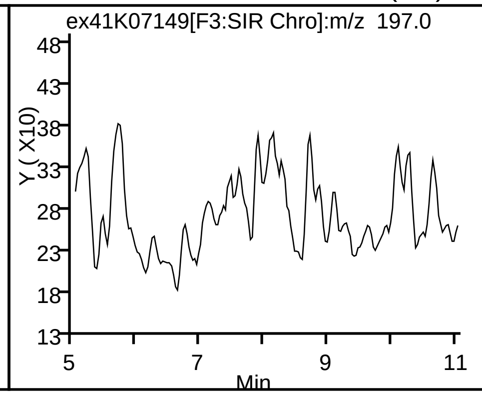


Report Date: 09-Nov-2011 06:56:00 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07149.d

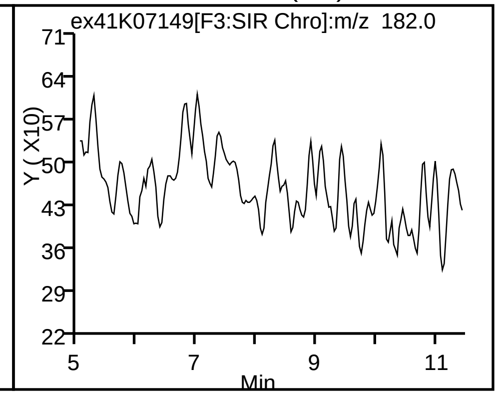
13 3,4-Dinitrotoluene (ND)



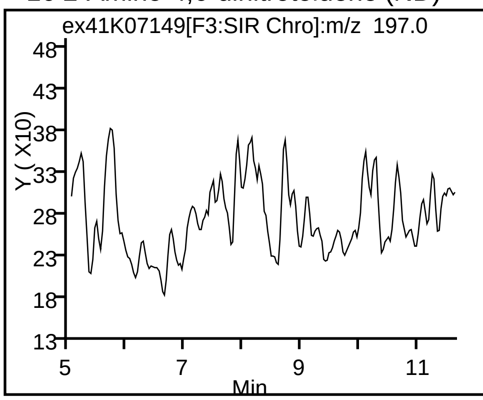
14 4-Amino-2,6-dinitrotoluene (ND)



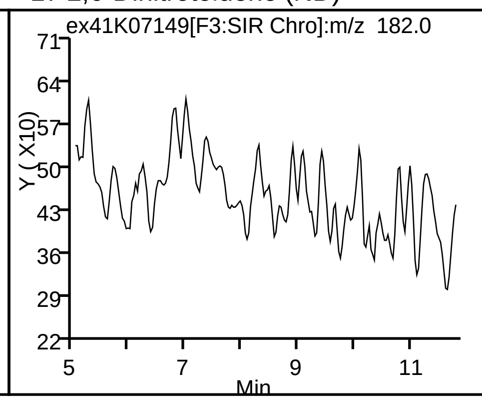
15 2,3-Dinitrotoluene (ND)



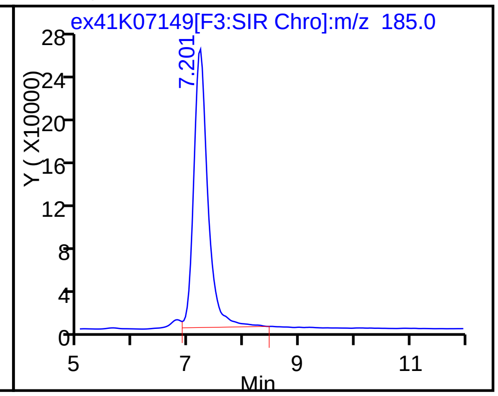
16 2-Amino-4,6-dinitrotoluene (ND)



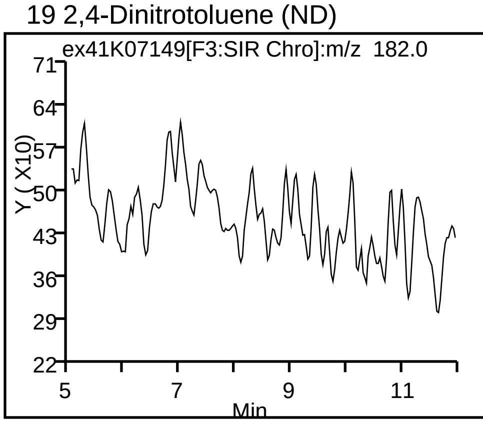
17 2,6-Dinitrotoluene (ND)



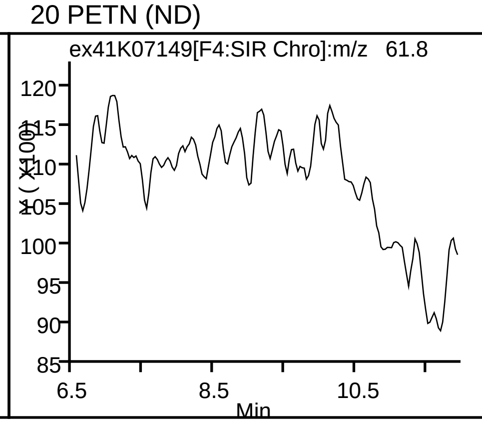
* 18 2,4-dinitrotoluene-d3



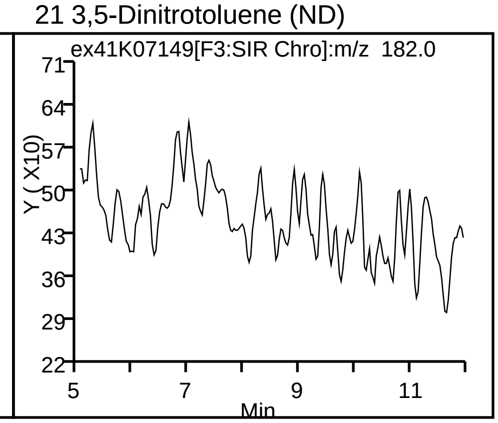
19 2,4-Dinitrotoluene (ND)



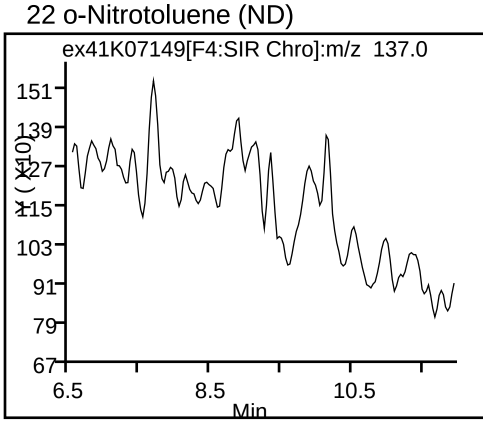
20 PETN (ND)



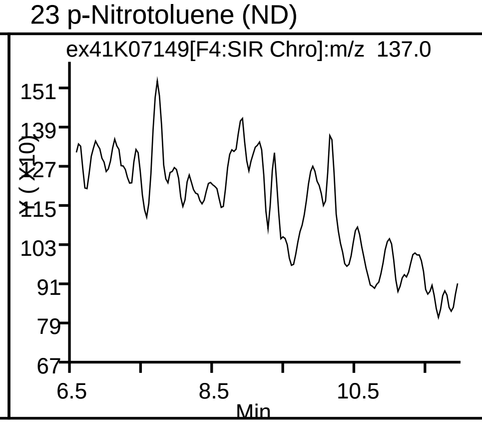
21 3,5-Dinitrotoluene (ND)



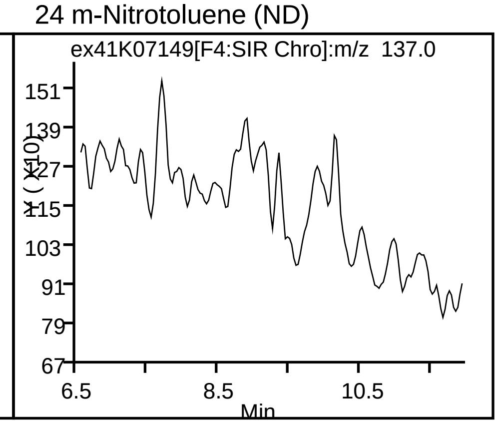
22 o-Nitrotoluene (ND)



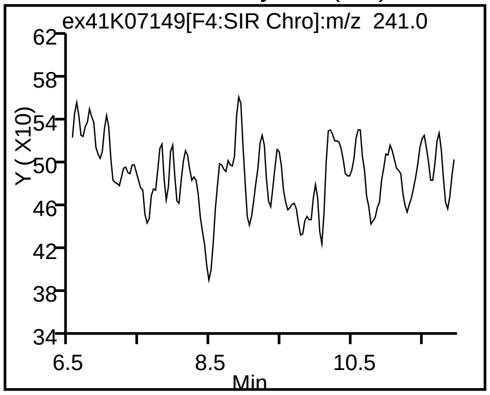
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP43 SD013   Lab Sample ID: 280-22000-13

Matrix: Solid   Lab File ID: ex41K07150.d

Analysis Method: 8321B   Date Collected: 10/22/2011 10:40

Extraction Method: 8330B   Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.13(g)   Date Analyzed: 11/09/2011 01:33

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U J	0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.099	0.025	0.011
2691-41-0	HMX	0.012	U	0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.099	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.099	0.012	0.010
78-11-5	PETN	0.012	U	0.099	0.012	0.0051
121-82-4	RDX	0.012	U	0.099	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07150.d		
Lims ID:	280-22000-B-13-C	Client ID:	CP43 SD013
Inject. Date:	09-Nov-2011 01:33:03	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-B-13-C 280-0002728-146		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	21
Lims Batch ID:	95320	Lims Sample ID:	146
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:57	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	09-Nov-2011 06:43:31

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		980908	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3358104	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1835972	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	712667	78.9			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.459							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.170	0.031		5446938	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.288							

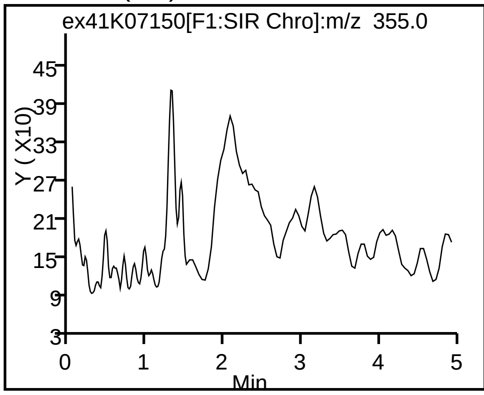
QC Flag Legend

Processing Flags
1 - Missing Peaks

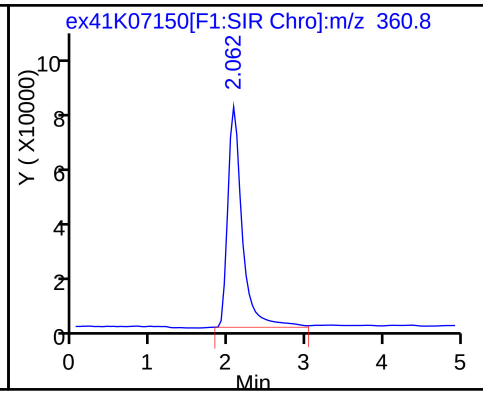
Report Date: 09-Nov-2011 06:56:01 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07150.d

Injection Date:	09-Nov-2011 01:33:03	Limit Group:	LC - 8321A Expl
Client ID:	CP43 SD013	Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	146
Operator ID:		Injection Vol:	40.00 ul

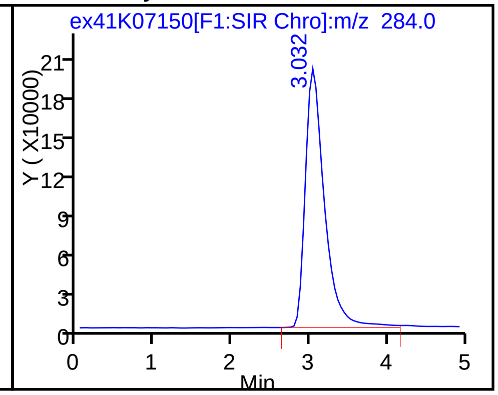
2 HMX (ND)



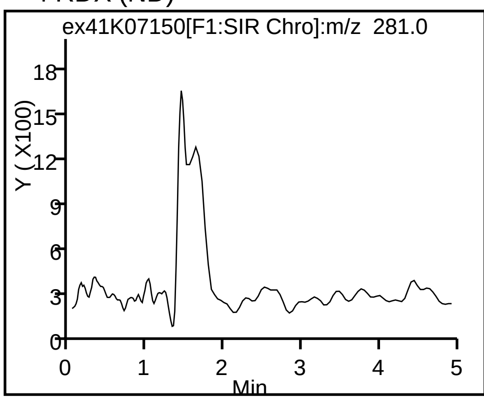
* 1 HMX-13C4



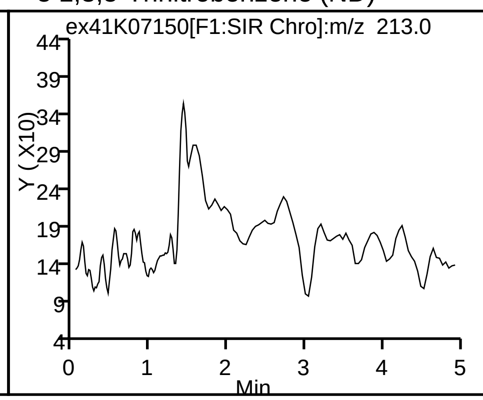
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



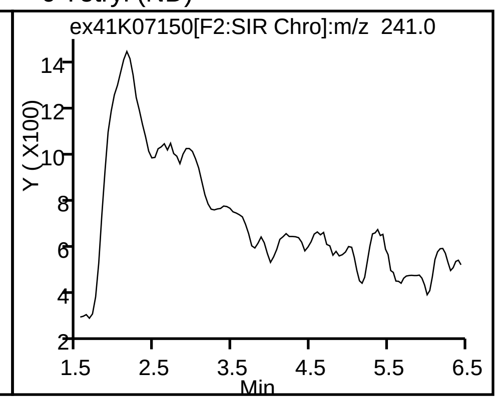
4 RDX (ND)



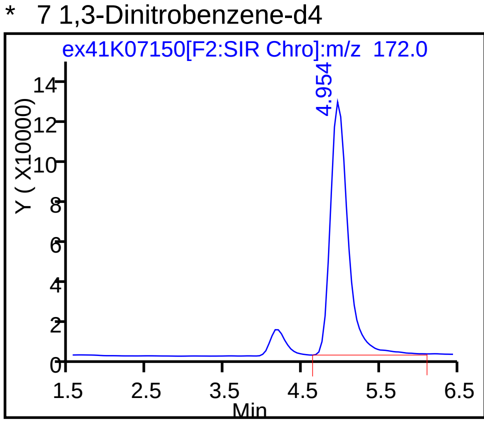
5 1,3,5-Trinitrobenzene (ND)



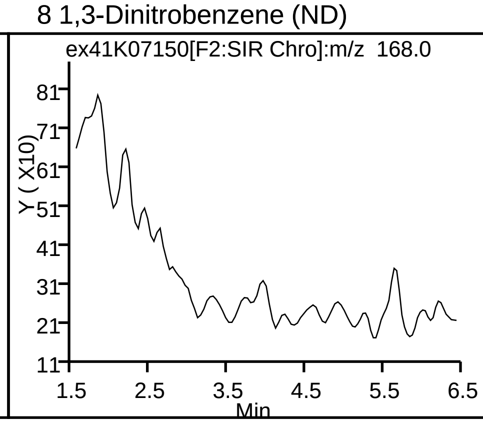
6 Tetryl (ND)



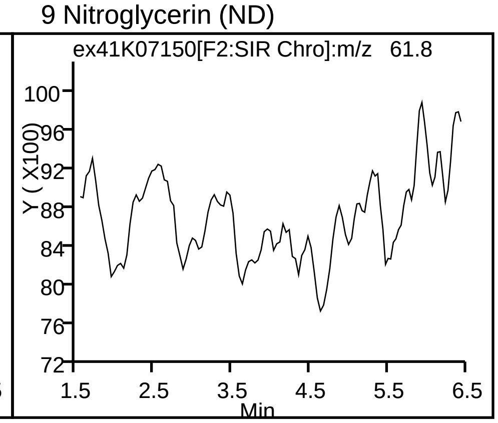
* 7 1,3-Dinitrobenzene-d4



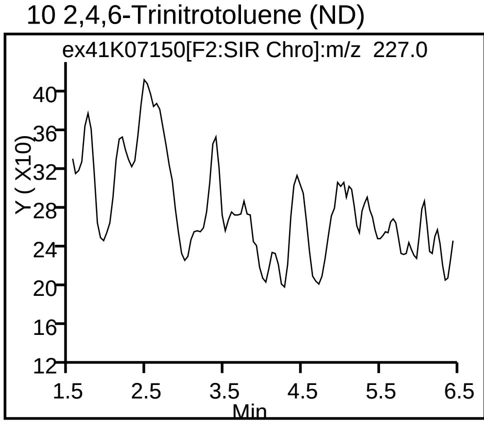
8 1,3-Dinitrobenzene (ND)



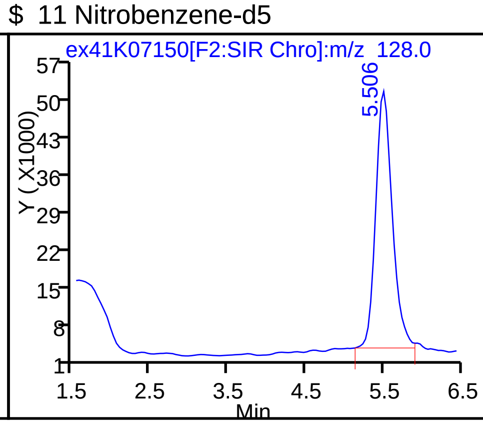
9 Nitroglycerin (ND)



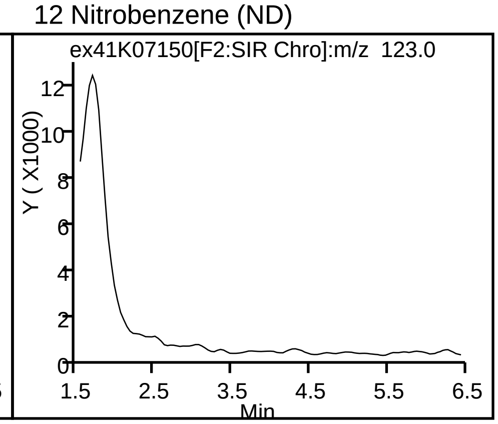
10 2,4,6-Trinitrotoluene (ND)



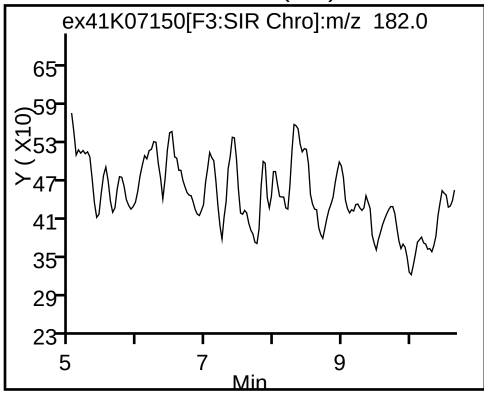
$ 11 Nitrobenzene-d5



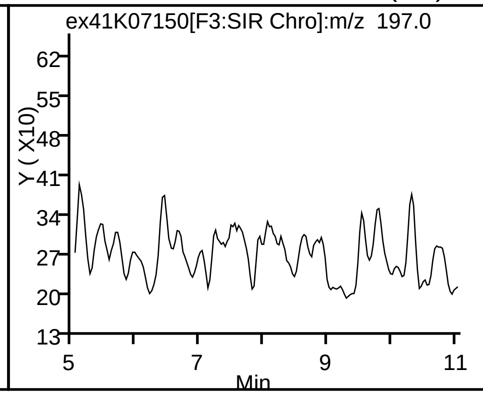
12 Nitrobenzene (ND)



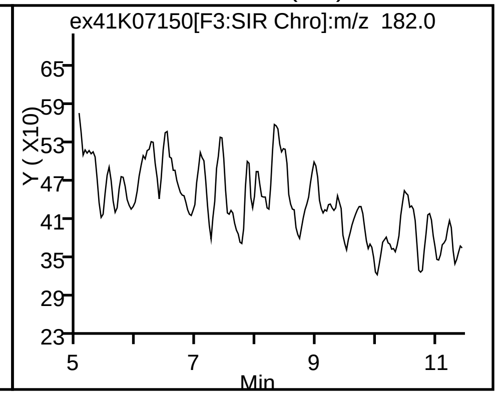
13 3,4-Dinitrotoluene (ND)



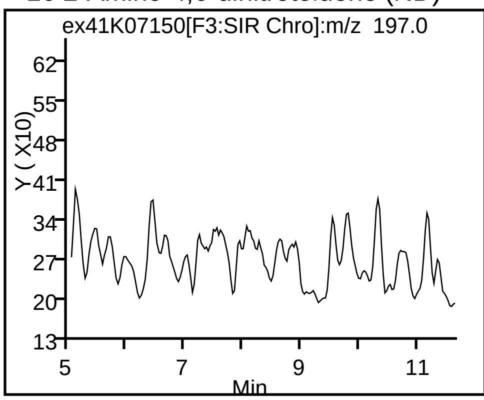
14 4-Amino-2,6-dinitrotoluene (ND)



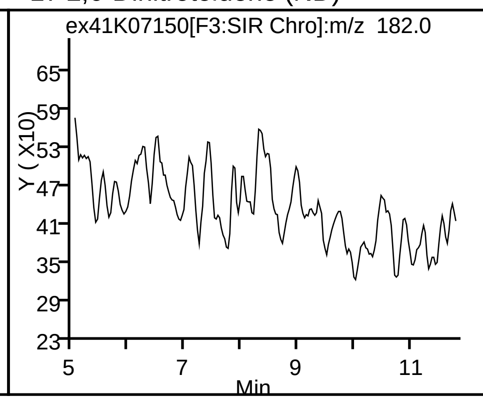
15 2,3-Dinitrotoluene (ND)



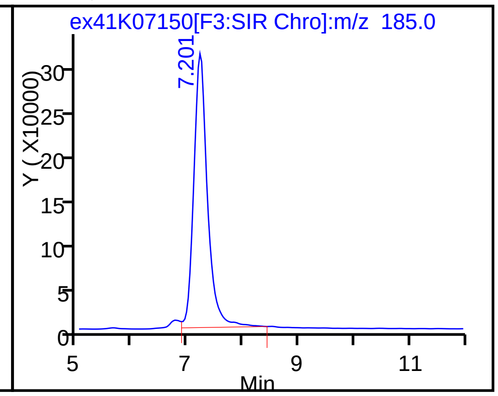
16 2-Amino-4,6-dinitrotoluene (ND)



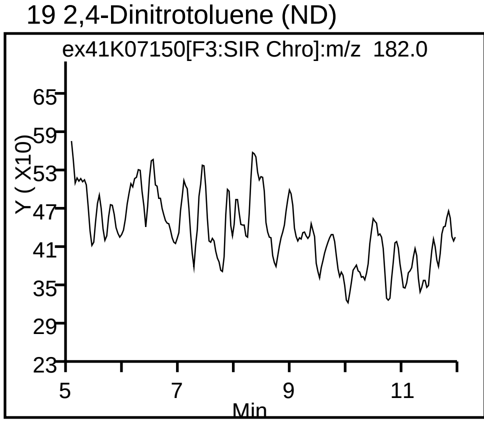
17 2,6-Dinitrotoluene (ND)



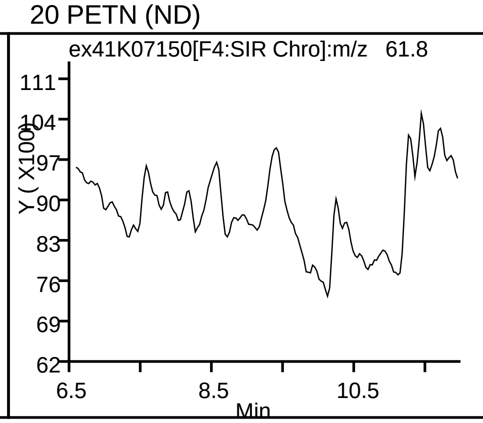
* 18 2,4-dinitrotoluene-d3



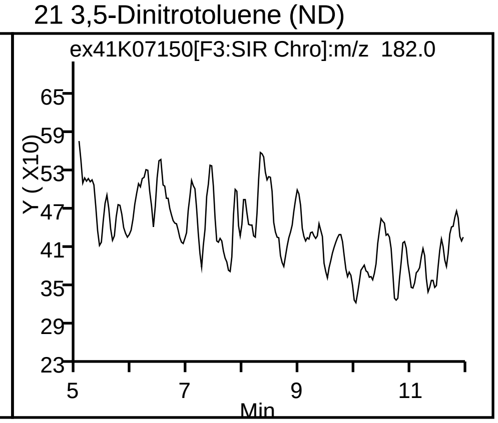
19 2,4-Dinitrotoluene (ND)



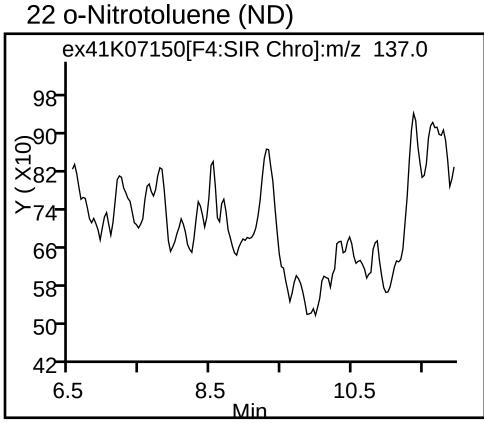
20 PETN (ND)



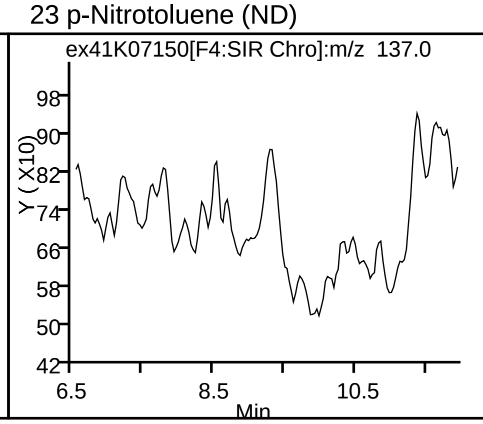
21 3,5-Dinitrotoluene (ND)



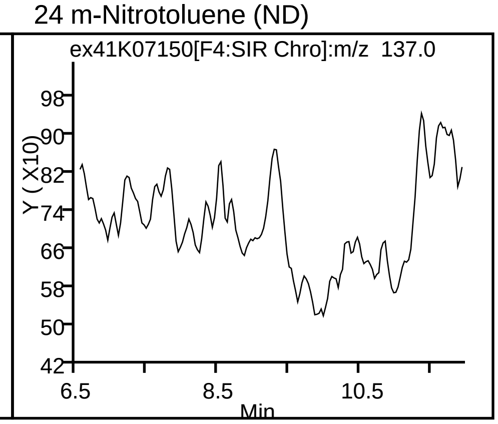
22 o-Nitrotoluene (ND)



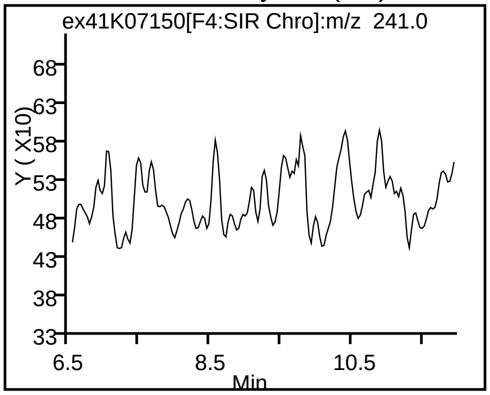
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Client Sample ID: MG35 SB123A   Lab Sample ID: 280-22000-18

Matrix: Solid   Lab File ID: ex41K07198.d

Analysis Method: 8321B   Date Collected: 10/20/2011 11:15

Extraction Method: 8330B   Date Extracted: 11/03/2011 15:20

Sample wt/vol: 10.00(g)   Date Analyzed: 11/09/2011 12:30

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95468   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.013	U	0.10	0.013	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.013	U	0.10	0.013	0.0050
121-14-2	2,4-Dinitrotoluene	0.013	U	0.10	0.013	0.0082
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.013	U	0.10	0.013	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.013	U	0.10	0.013	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.013	U	0.10	0.013	0.0058
98-95-3	Nitrobenzene	0.013	U	0.10	0.013	0.011
55-63-0	Nitroglycerin	0.013	U	0.10	0.013	0.011
78-11-5	PETN	0.013	U	0.10	0.013	0.0052
121-82-4	RDX	0.013	U	0.10	0.013	0.0043
479-45-8	Tetryl	0.013	U	0.10	0.013	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07198.d		
Lims ID:	280-22000-A-18-B	Client ID:	MG35 SB123A
Inject. Date:	09-Nov-2011 12:30:10	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-A-18-B 280-0002728-193		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	39
Lims Batch ID:	95468	Lims Sample ID:	193
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 14:08:19	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	09-Nov-2011 14:07:26

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		934068	250.0			
4 RDX										
1	281.0		2.991							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		3088412	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.718							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.913	0.041		1744461	258.7			
8 1,3-Dinitrobenzene										
2	168.0		4.954							
9 Nitroglycerin										
2	61.8		4.954							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.105	697186	81.3			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.583							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.391							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.594							
17 2,6-Dinitrotoluene										1
3	182.0		6.745							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.110	0.030		4900444	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.170							
20 PETN										
4	61.8		7.616							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										1
4	137.0		8.132							
23 p-Nitrotoluene										1
4	137.0		8.679							
24 m-Nitrotoluene										1
4	137.0		9.316							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.197							

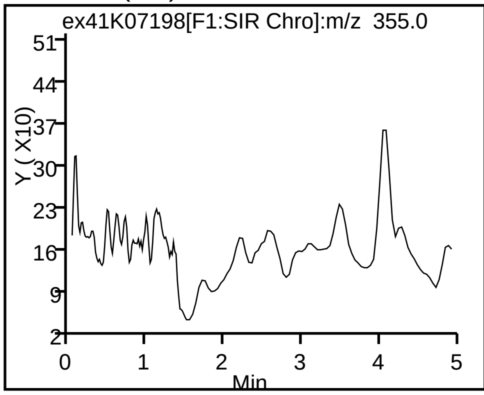
QC Flag Legend

Processing Flags
1 - Missing Peaks

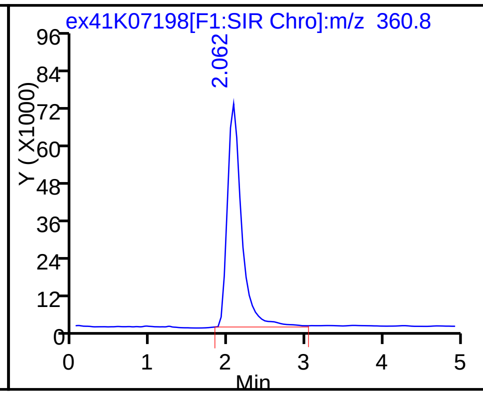
Report Date: 09-Nov-2011 14:08:22 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07198.d

Injection Date:	09-Nov-2011 12:30:10	Limit Group:	LC - 8321A Expl
Client ID:	MG35 SB123A	Instrument ID:	LC_LCMS4
Lims Batch ID:	95468	Lims Sample ID:	193
Operator ID:		Injection Vol:	40.00 ul

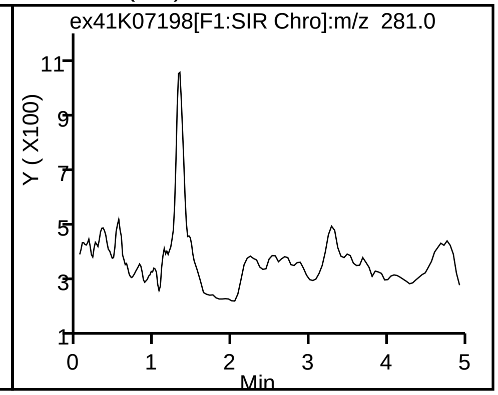
2 HMX (ND)



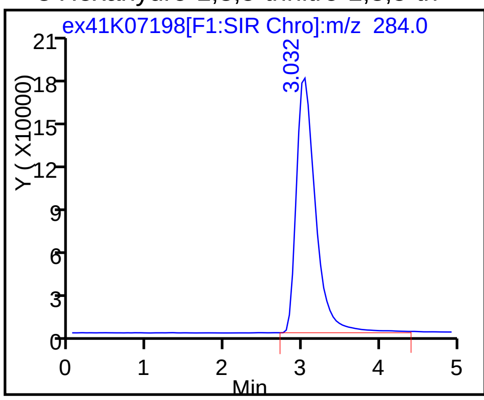
* 1 HMX-13C4



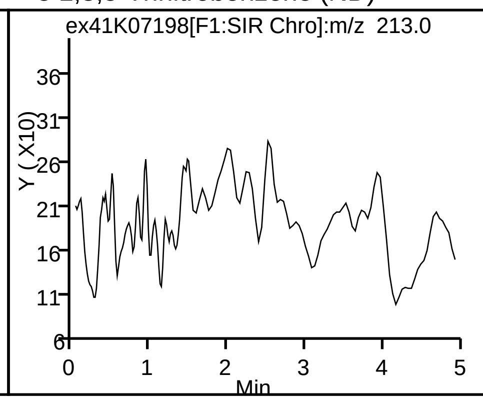
4 RDX (ND)



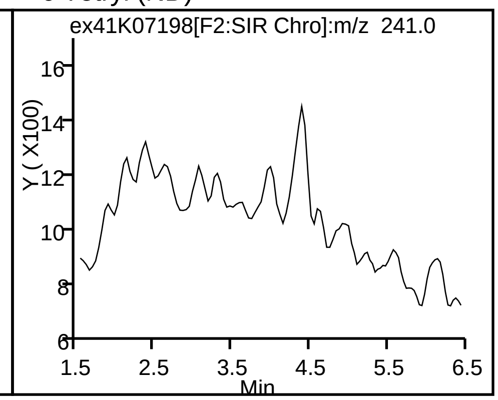
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



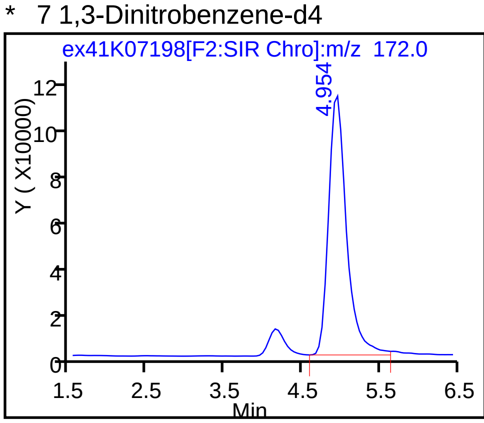
5 1,3,5-Trinitrobenzene (ND)



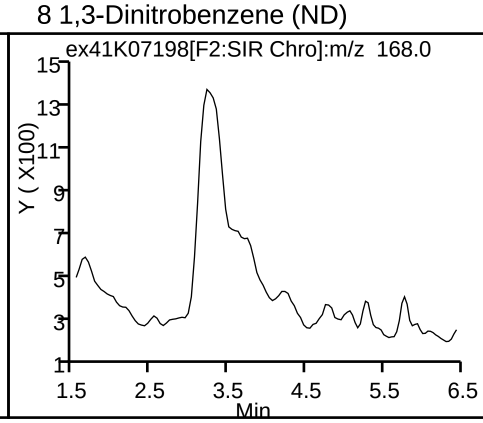
6 Tetryl (ND)



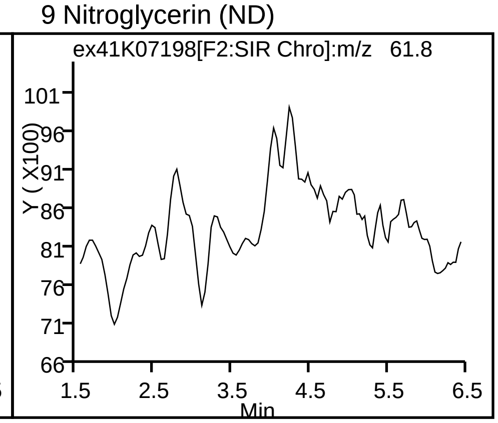
* 7 1,3-Dinitrobenzene-d4



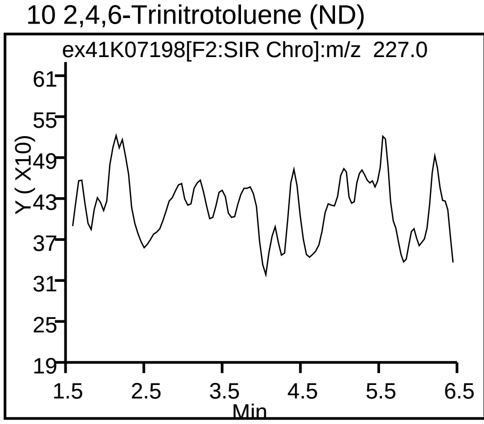
8 1,3-Dinitrobenzene (ND)



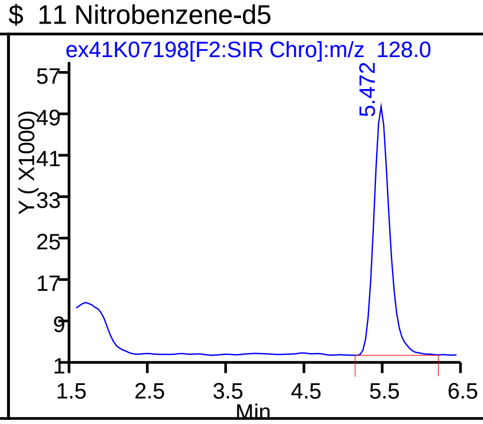
9 Nitroglycerin (ND)



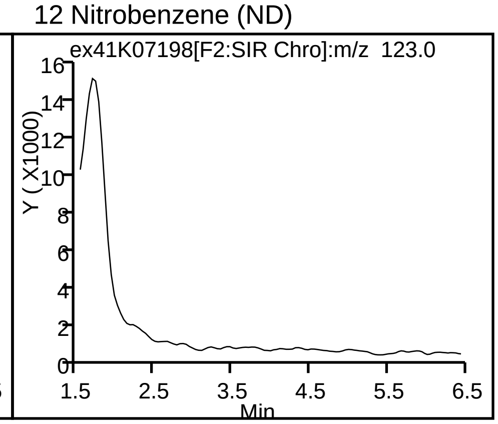
10 2,4,6-Trinitrotoluene (ND)



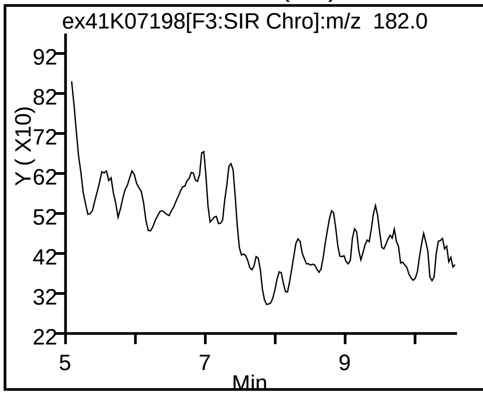
$ 11 Nitrobenzene-d5



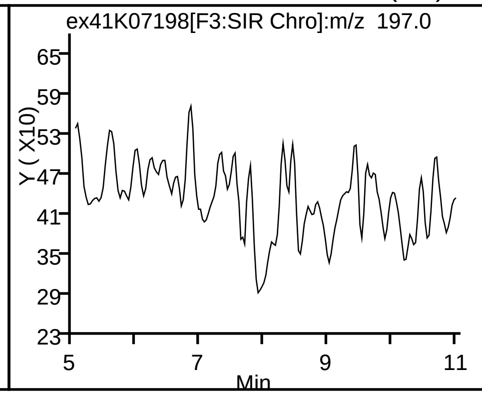
12 Nitrobenzene (ND)



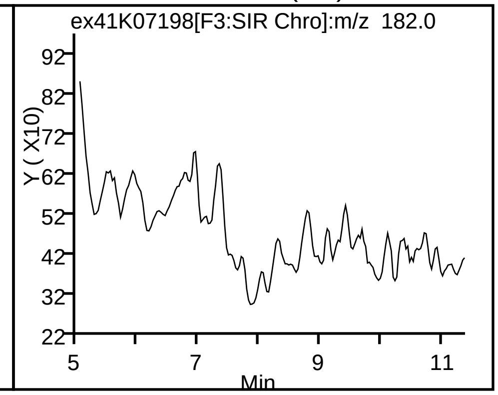
13 3,4-Dinitrotoluene (ND)



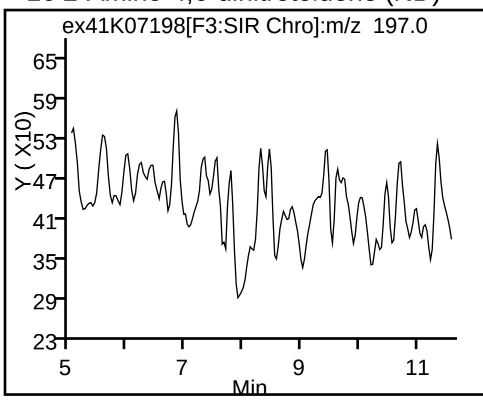
14 4-Amino-2,6-dinitrotoluene (ND)



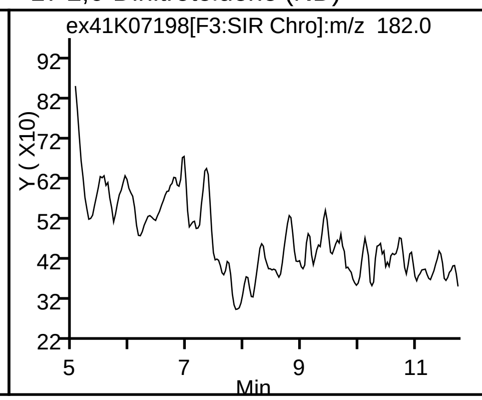
15 2,3-Dinitrotoluene (ND)



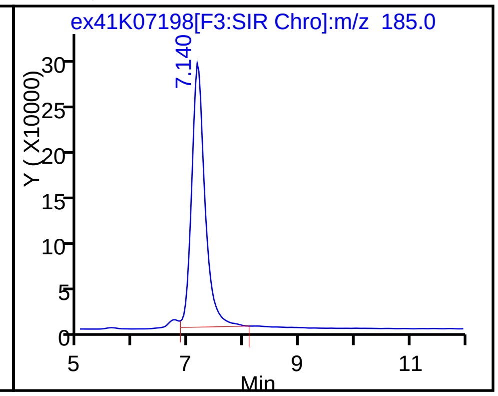
16 2-Amino-4,6-dinitrotoluene (ND)



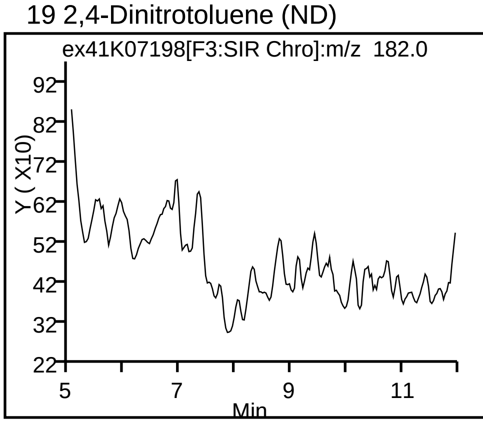
17 2,6-Dinitrotoluene (ND)



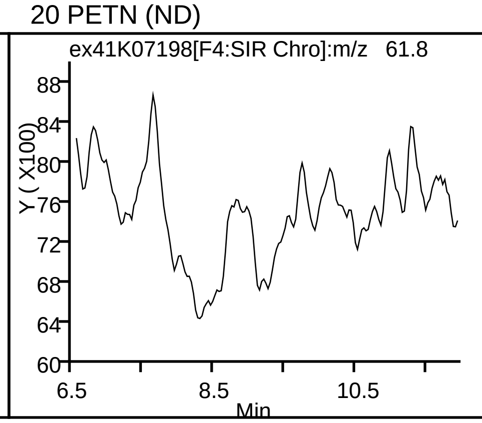
* 18 2,4-dinitrotoluene-d3



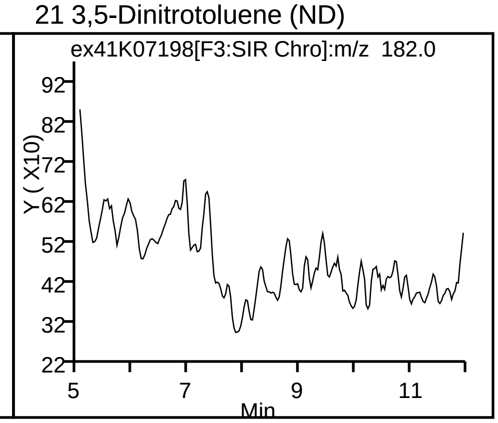
19 2,4-Dinitrotoluene (ND)



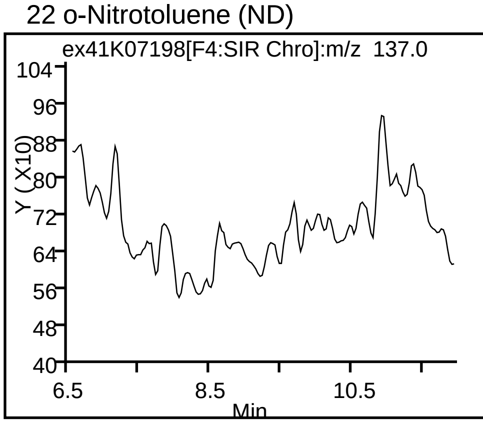
20 PETN (ND)



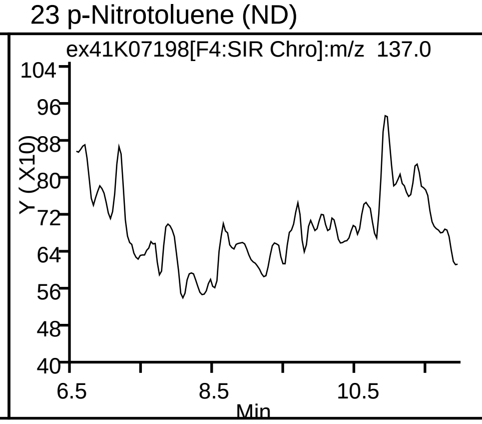
21 3,5-Dinitrotoluene (ND)



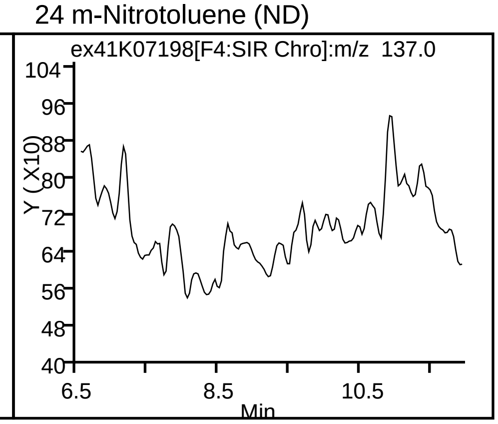
22 o-Nitrotoluene (ND)



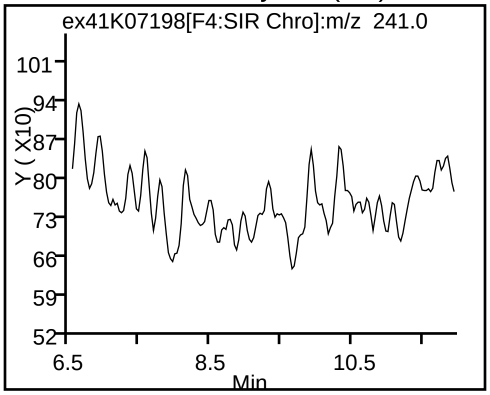
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver　　Job No.: 280-22000-1

SDG No.:

Client Sample ID: MG35 SB124A　　Lab Sample ID: 280-22000-19

Matrix: Solid　　Lab File ID: ex41K07199.d

Analysis Method: 8321B　　Date Collected: 10/20/2011 11:25

Extraction Method: 8330B　　Date Extracted: 11/03/2011 15:20

Sample wt/vol: 10.16(g)　　Date Analyzed: 11/09/2011 12:44

Con. Extract Vol.: 40(mL)　　Dilution Factor: 1

Injection Volume: 40(uL)　　GC Column: IonPac　　ID: 2(mm)

% Moisture:　　GPC Cleanup:(Y/N) N

Analysis Batch No.: 95468　　Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.098	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.098	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.025	U	0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.025	U	0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.025	U	0.098	0.025	0.011
2691-41-0	HMX	0.012	U	0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.098	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.098	0.012	0.010
78-11-5	PETN	0.012	U	0.098	0.012	0.0051
121-82-4	RDX	0.012	U	0.098	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07199.d		
Lims ID:	280-22000-A-19-B	Client ID:	MG35 SB124A
Inject. Date:	09-Nov-2011 12:44:00	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22000-A-19-B 280-0002728-194		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	40
Lims Batch ID:	95468	Lims Sample ID:	194
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 14:08:19	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		926425	250.0			
4 RDX										
1	281.0		2.991							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		3103569	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.718							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1929664	258.7			
8 1,3-Dinitrobenzene										
2	168.0		4.954							
9 Nitroglycerin										
2	61.8		4.954							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.439	5.438	0.001	1.107	752613	79.3			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.583							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							
15 2,3-Dinitrotoluene										1
3	182.0		6.391							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.594							
17 2,6-Dinitrotoluene										1
3	182.0		6.745							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.110	0.030		5834690	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.170							
20 PETN										1
4	61.8		7.616							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										1
4	137.0		8.132							
23 p-Nitrotoluene										1
4	137.0		8.679							
24 m-Nitrotoluene										1
4	137.0		9.316							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.197							

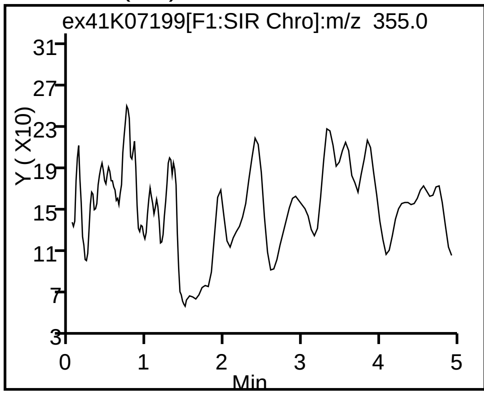
QC Flag Legend

Processing Flags
1 - Missing Peaks

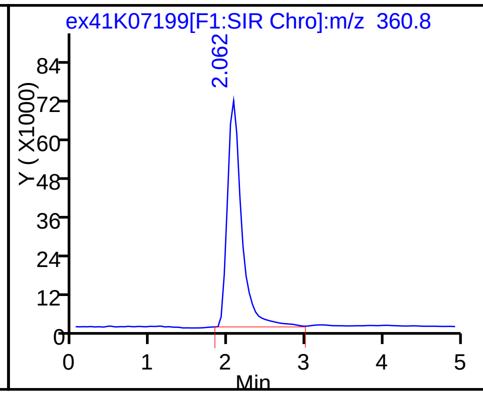
Report Date: 09-Nov-2011 14:08:23 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07199.d

Injection Date:	09-Nov-2011 12:44:00	Limit Group:	LC - 8321A Expl
Client ID:	MG35 SB124A	Instrument ID:	LC_LCMS4
Lims Batch ID:	95468	Lims Sample ID:	194
Operator ID:		Injection Vol:	40.00 ul

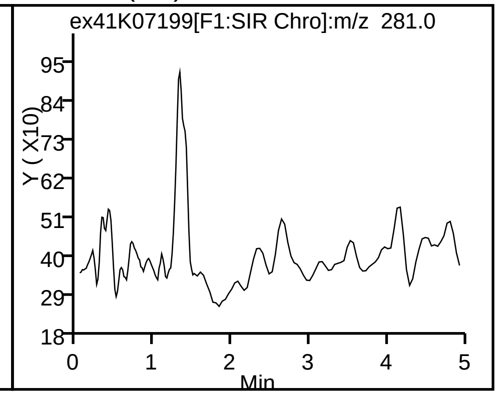
2 HMX (ND)



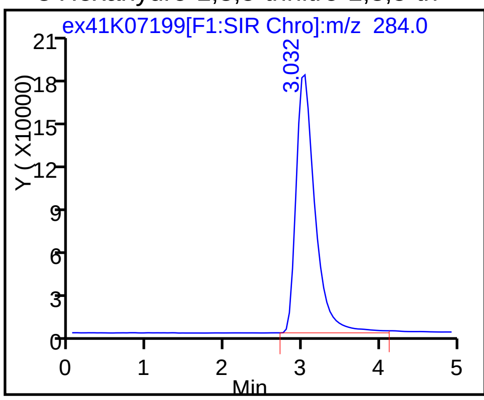
* 1 HMX-13C4



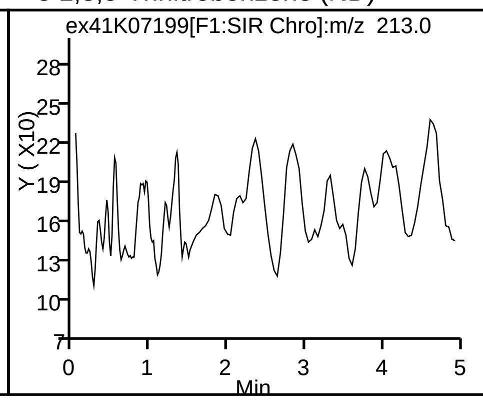
4 RDX (ND)



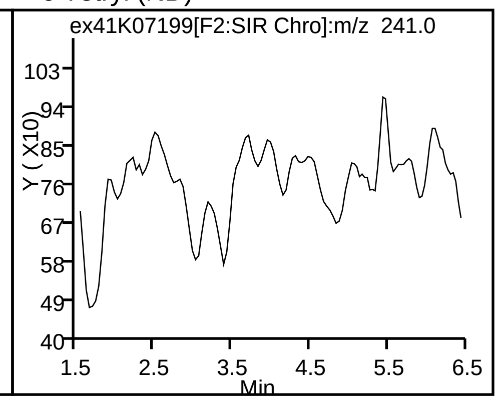
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



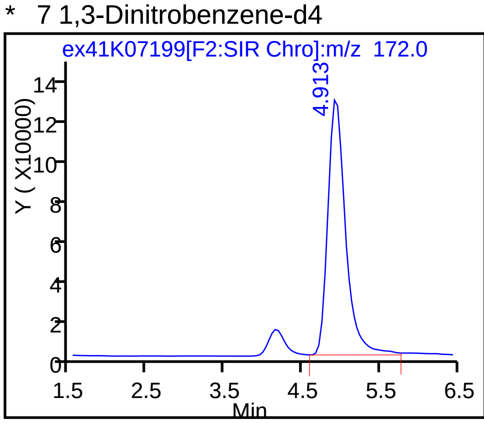
5 1,3,5-Trinitrobenzene (ND)



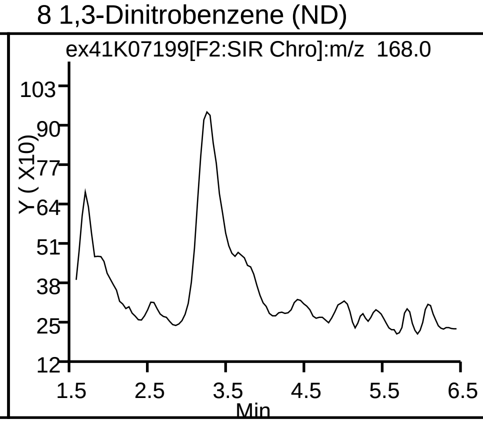
6 Tetryl (ND)



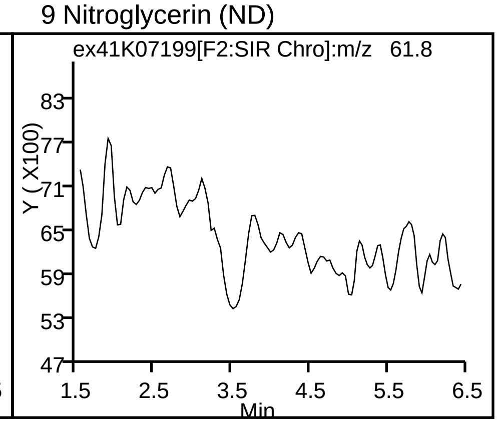
* 7 1,3-Dinitrobenzene-d4



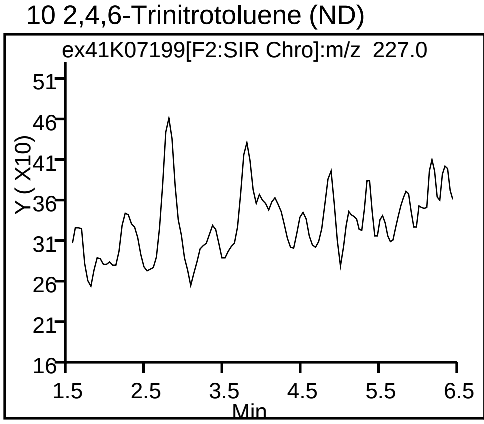
8 1,3-Dinitrobenzene (ND)



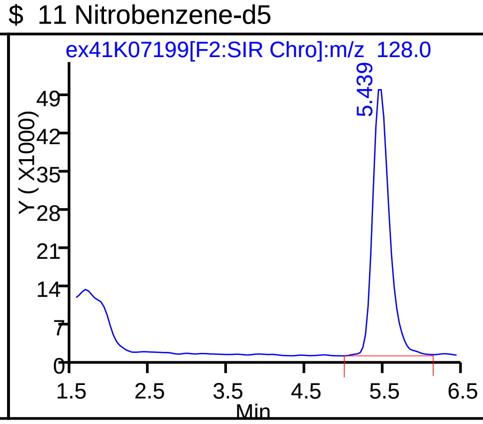
9 Nitroglycerin (ND)



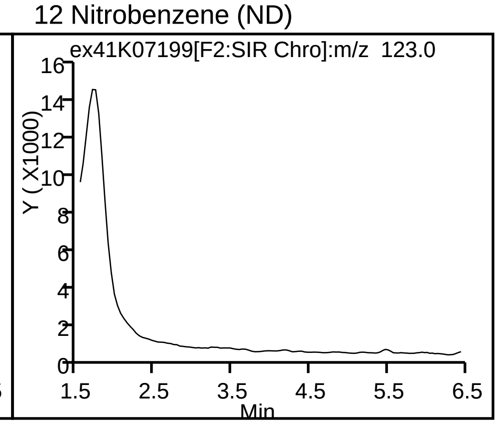
10 2,4,6-Trinitrotoluene (ND)



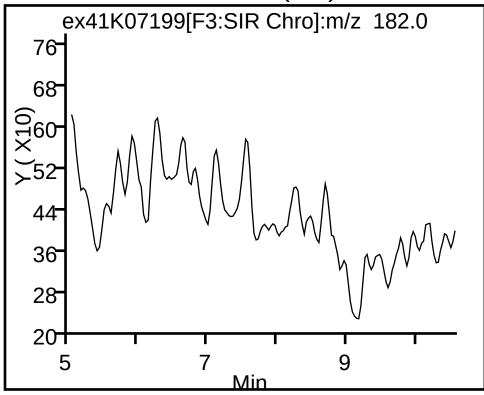
$ 11 Nitrobenzene-d5



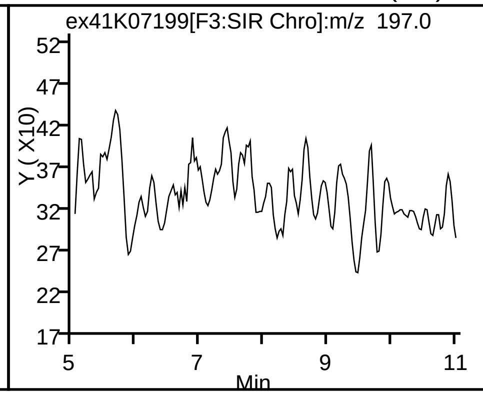
12 Nitrobenzene (ND)



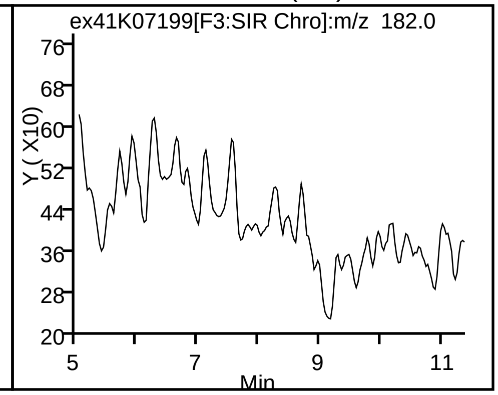
13 3,4-Dinitrotoluene (ND)



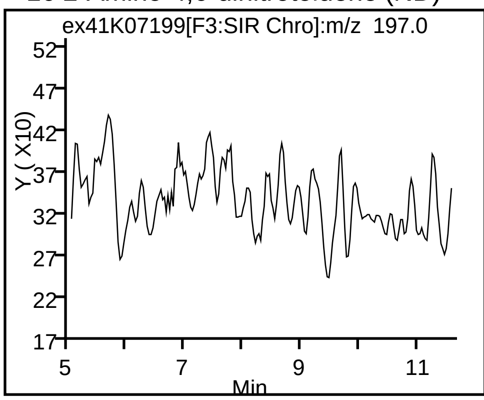
14 4-Amino-2,6-dinitrotoluene (ND)



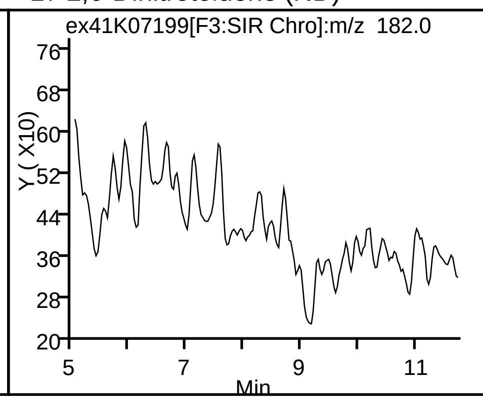
15 2,3-Dinitrotoluene (ND)



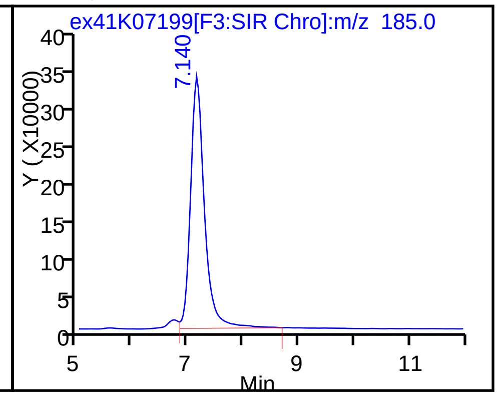
16 2-Amino-4,6-dinitrotoluene (ND)



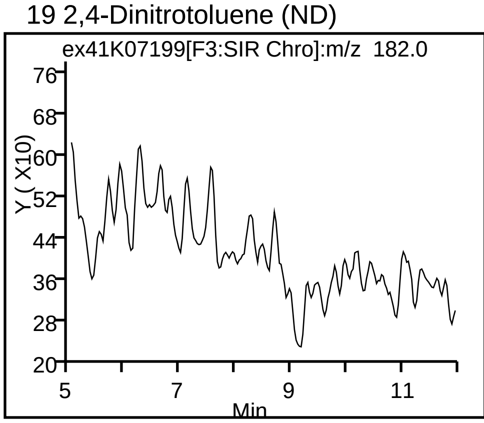
17 2,6-Dinitrotoluene (ND)



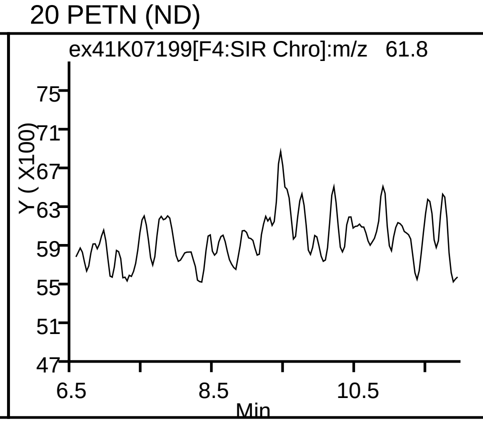
* 18 2,4-dinitrotoluene-d3



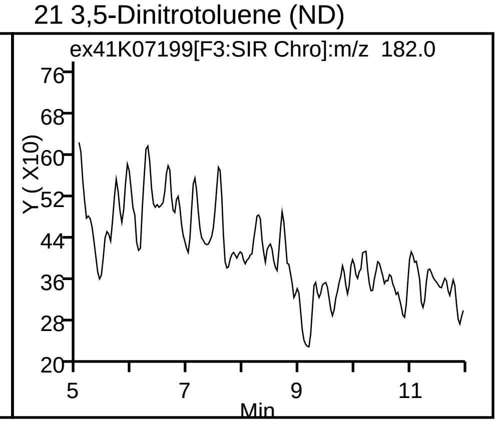
19 2,4-Dinitrotoluene (ND)



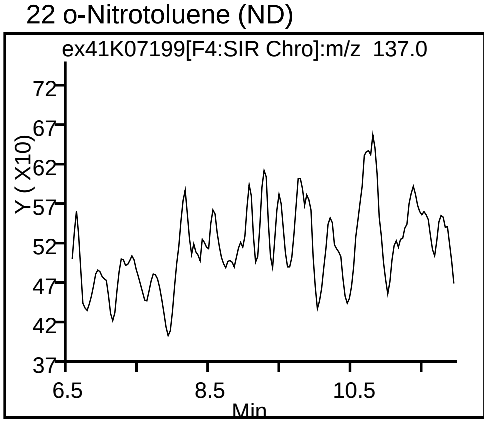
20 PETN (ND)



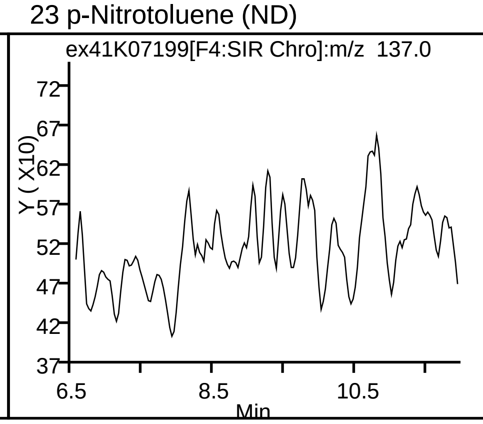
21 3,5-Dinitrotoluene (ND)



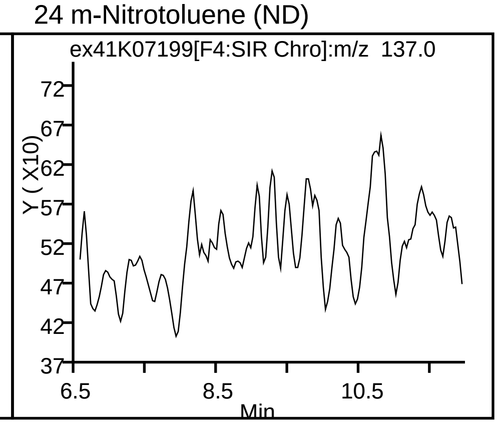
22 o-Nitrotoluene (ND)



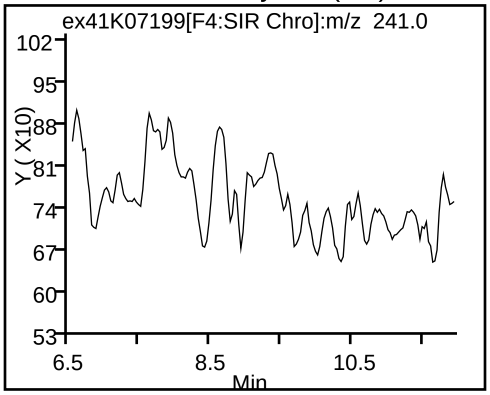
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-22000-1 Analy Batch No.: 95155

SDG No.:

Instrument ID: LC_LCMS4 GC Column: IonPac ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2011 15:53 Calibration End Date: 11/07/2011 17:14 Calibration ID: 7733

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 280-95155/1	ex41K07003.d
Level 2	STD010 280-95155/2	ex41K07004.d
Level 3	STD025 280-95155/3	ex41K07005.d
Level 4	STD050 280-95155/4	ex41K07006.d
Level 5	STD100 280-95155/5	ex41K07007.d
Level 6	STD200 280-95155/6	ex41K07008.d
Level 7	STD300 280-95155/7	ex41K07009.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
HMX	2.1858 2.1191	2.0956 2.1051	2.1486	2.2190	2.2027	Lin1	0.4587	2.1289							1.0000		0.9900
RDX	1.1733 0.9807	1.0045 0.9752	1.0309	0.9912	0.9892	Lin1	0.8289	0.9753							1.0000		0.9900
1,3,5-Trinitrobenzene	1.4254 1.2712	1.0698 1.2405	1.0631	1.0297	1.2295	Lin1	-0.800	1.2332							0.9960		0.9900
Tetryl	1.5830 1.6600	1.4498 1.8232	1.2639	1.4395	1.7163	Lin1	-3.237	1.7383							0.9940		0.9900
1,3-Dinitrobenzene	1.0540 1.0957	1.0174 1.0973	0.9990	1.1045	1.1149	Lin1	-0.598	1.1009							1.0000		0.9900
Nitroglycerin	7.9927 6.9254	5.5508 7.1851	6.8443	7.3080	6.8764	Lin1	-2.030	7.0649							0.9990		0.9900
2,4,6-Trinitrotoluene	5.6576 5.2360	4.6676 5.1186	4.6997	5.9368	5.4142	Lin1	0.2338	5.2350							0.9970		0.9900
Nitrobenzene	1.1449 0.9808	0.9734 0.9600	0.9850	1.1122	0.9926	Lin1	0.8429	0.9758							0.9980		0.9900
3,4-Dinitrotoluene	2.3868 2.6735	2.3829 2.2105	2.2336	2.5242	2.4134	Lin1	0.0480	2.4010							0.9920		0.9900
4-Amino-2,6-dinitrotoluene	1.2706 1.3716	1.2902 1.1929	1.3303	1.3118	1.3293	Lin1	0.4385	1.2755							0.9950		0.9900
2,3-Dinitrotoluene	3.0941 3.5788	2.9373 2.8982	2.8730	3.4376	3.6036	Ave		3.2032				10.0		15.0			
2-Amino-4,6-dinitrotoluene	1.5264 1.9197	1.3679 1.6044	1.5691	1.7830	1.8137	Lin1	-1.799	1.7520							0.9920		0.9900
2,6-Dinitrotoluene	2.8463 3.0026	2.5739 2.6855	2.8046	2.5832	2.7911	Lin1	-0.772	2.7970							0.9970		0.9900
2,4-Dinitrotoluene	1.0578 1.3992	1.1162 1.3294	1.1229	1.3297	1.3036	Lin1	-2.203	1.3557							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver   Job No.: 280-22000-1   Analy Batch No.: 95155

SDG No.:

Instrument ID: LC_LCMS4   GC Column: IonPac   ID: 2(mm)   Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2011 15:53   Calibration End Date: 11/07/2011 17:14   Calibration ID: 7733

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PETN	3.2663 2.5503	3.0559 2.2428	3.0620	3.0046	2.6032	Qua1	1.7185	2.9708	-0.002						0.9990		0.9900
3,5-Dinitrotoluene	0.6605 0.6815	0.5705 0.7346	0.6373	0.6222	0.6625	Lin1	-0.944	0.7038							0.9970		0.9900
2-Nitrotoluene	0.4550 0.5644	0.5160 0.5621	0.5071	0.5194	0.5013	Lin1	-0.667	0.5543							0.9980		0.9900
4-Nitrotoluene	0.4721 0.4826	0.4094 0.4948	0.4399	0.4514	0.4318	Lin1	-0.476	0.4805							0.9970		0.9900
3-Nitrotoluene	0.2743 0.2967	0.2674 0.3299	0.2859	0.2882	0.2818	Lin1	-0.410	0.3116							0.9960		0.9900
Nitrobenzene-d5	1.9880 1.2079	1.4430 1.2151	1.3472	1.5275	1.3101	Lin1	3.8962	1.2237							0.9960		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-22000-1 Analy Batch No.: 95155

SDG No.:

Instrument ID: LC_LCMS4 GC Column: IonPac ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2011 15:53 Calibration End Date: 11/07/2011 17:14 Calibration ID: 7733

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 280-95155/1	ex41K07003.d
Level 2	STD010 280-95155/2	ex41K07004.d
Level 3	STD025 280-95155/3	ex41K07005.d
Level 4	STD050 280-95155/4	ex41K07006.d
Level 5	STD100 280-95155/5	ex41K07007.d
Level 6	STD200 280-95155/6	ex41K07008.d
Level 7	STD300 280-95155/7	ex41K07009.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
HMX	HXC4	Lin1	32770 1233796	64636 1546259	147042	381710	733331	5.00 200	10.0 300	25.0	50.0	100
RDX	HHTT	Lin1	54418 2034041	91748 2609143	232058	525095	1180321	4.94 197	9.87 296	24.7	49.4	98.7
1,3,5-Trinitrobenzene	DNB4	Lin1	30723 1720550	51806 2215207	124844	273799	770582	5.01 200	10.0 300	25.0	50.1	100
Tetryl	DNB4	Lin1	33880 2231145	69715 3233031	147385	380111	1068115	4.97 199	9.94 298	24.9	49.7	99.4
1,3-Dinitrobenzene	DNB4	Lin1	23012 1502288	49907 1984915	118841	297521	707781	5.07 203	10.1 304	25.4	50.7	101
Nitroglycerin	DNB4	Lin1	172097 9364187	268529 12818148	802959	1941319	4305324	5.00 200	10.0 300	25.0	50.0	100
2,4,6-Trinitrotoluene	DNB4	Lin1	121939 7086956	226029 9140693	551914	1578638	3393218	5.01 200	10.0 300	25.0	50.1	100
Nitrobenzene	DNB4	Lin1	24628 1324862	47043 1711002	115441	295152	620838	5.00 200	9.99 300	25.0	50.0	99.9
3,4-Dinitrotoluene	DNT3	Lin1	168514 10153598	357445 12964113	816285	2508183	4719421	5.00 200	10.0 300	25.0	50.0	100
4-Amino-2,6-dinitrotoluene	DNT3	Lin1	88508 5139458	190951 6902306	479645	1286012	2564597	4.94 197	9.87 296	24.7	49.4	98.7
2,3-Dinitrotoluene	DNT3	Ave	218320 13583925	440345 16986850	1049346	3413673	7042608	5.00 200	10.00 300	25.0	50.0	100.0
2-Amino-4,6-dinitrotoluene	DNT3	Lin1	107832 7295151	205313 9415194	573779	1772735	3548842	5.01 200	10.0 300	25.0	50.1	100
2,6-Dinitrotoluene	DNT3	Lin1	201078 11410541	386324 15759671	1025579	2568387	5461192	5.01 200	10.0 300	25.0	50.1	100
2,4-Dinitrotoluene	DNT3	Lin1	74878 5327879	167878 7817215	411440	1324736	2555806	5.02 201	10.0 301	25.1	50.2	100
PETN	DNT3	Qua1	230060 9662559	457305 13122218	1116371	2978430	5078314	4.99 200	9.98 299	25.0	49.9	99.8

LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver   Job No.: 280-22000-1   Analy Batch No.: 95155

SDG No.:

Instrument ID: LC_LCMS4   GC Column: IonPac   ID: 2(mm)   Heated Purge: (Y/N) N

Calibration Start Date: 11/07/2011 15:53   Calibration End Date: 11/07/2011 17:14   Calibration ID: 7733

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
3,5-Dinitrotoluene	DNT3	Lin1	46617 2587318	85545 4306598	232829	618023	1295014	5.00 200	10.0 300	25.0	50.0	100
2-Nitrotoluene	DNT3	Lin1	31821 2123609	76673 3265845	183594	511304	971007	4.96 198	9.91 297	24.8	49.6	99.1
4-Nitrotoluene	DNT3	Lin1	33155 1823076	61088 2886292	159916	446165	839752	4.98 199	9.95 299	24.9	49.8	99.5
3-Nitrotoluene	DNT3	Lin1	19126 1112839	39607 1910770	103174	282805	544263	4.94 198	9.88 296	24.7	49.4	98.8
Nitrobenzene-d5	DNB4	Lin1	42815 1633639	69823 2168223	158086	405858	820445	5.00 200	10.0 300	25.0	50.0	100

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua1 = Quadratic 1/conc ISTD

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07003.d		
Lims ID:	STD005	Client ID:	
Inject. Date:	07-Nov-2011 15:53:09	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	11/07/11EX1 STD005 ug/L 280-0002728-001		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	2
Lims Batch ID:	95155	Lims Sample ID:	1
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	08-Nov-2011 12:20:46	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	32770	4.92			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		749606	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2349542	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	54418	5.09			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	30723	6.43			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	33880	6.39			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1114052	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.954	0.040	1.016	23012	5.40			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	172097	5.94			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	121939	5.36			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.114	42815	4.94			
12 Nitrobenzene										
2	123.0	5.573	5.540	0.033	1.134	24628	5.00			
13 3,4-Dinitrotoluene										
3	182.0	5.617	5.617	0.000	0.790	168514	4.95			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.021	6.021	0.000	0.847	88508	4.57			

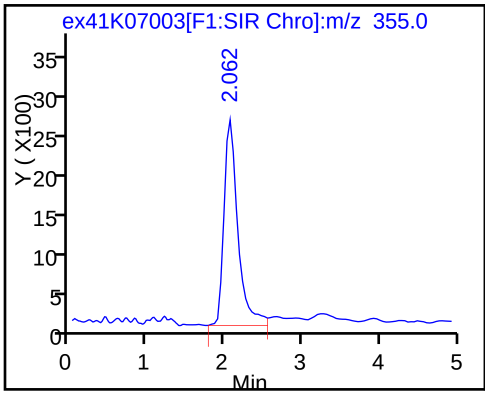
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.391	6.391	0.000	0.899	218320	4.83			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.594	0.030	0.932	107832	5.39			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.776	0.000	0.953	201078	5.37			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.110	7.140	-0.030		3528762	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.170	0.031	1.013	74878	5.54			
20 PETN										
4	61.8	7.646	7.616	0.030	1.000	230060	4.93			
21 3,5-Dinitrotoluene										
3	182.0	7.748	7.778	-0.030	1.090	46617	6.03			
22 o-Nitrotoluene										
4	137.0	8.162	8.132	0.030	1.000	31821	5.27			
23 p-Nitrotoluene										
4	137.0	8.709	8.709	0.000	1.000	33155	5.88			
24 m-Nitrotoluene										
4	137.0	9.377	9.316	0.061	1.000	19126	5.66			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.197	10.197	0.000	1.000	259208	4.91			

Report Date: 08-Nov-2011 12:20:47 Chrom Revision: 1.2 13-Jul-2011 10:43:06

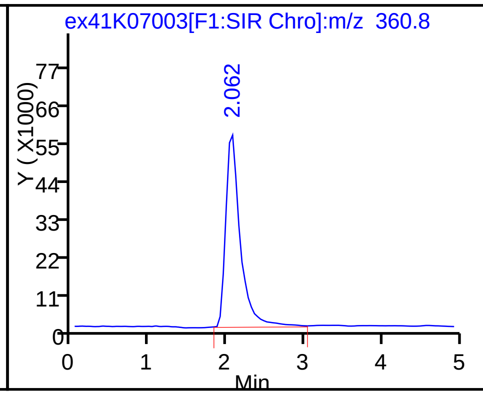
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07003.d

Injection Date:	07-Nov-2011 15:53:09	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95155	Lims Sample ID:	1
Operator ID:		Injection Vol:	40.00 ul

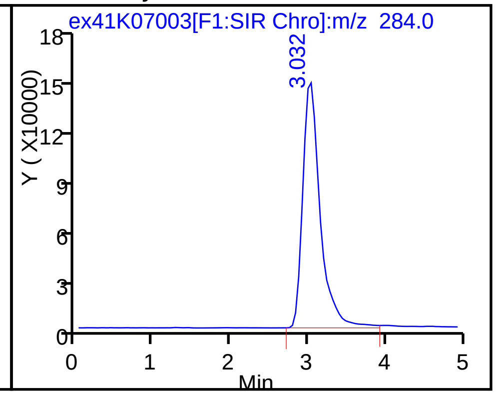
2 HMX



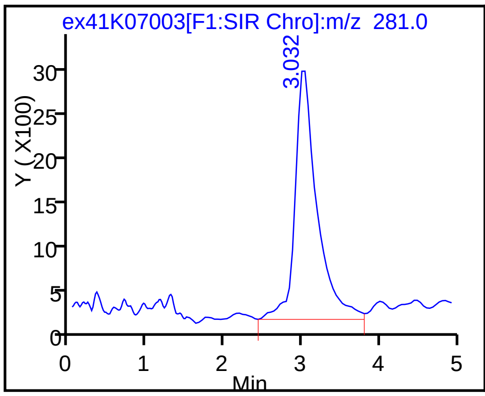
* 1 HMX-13C4



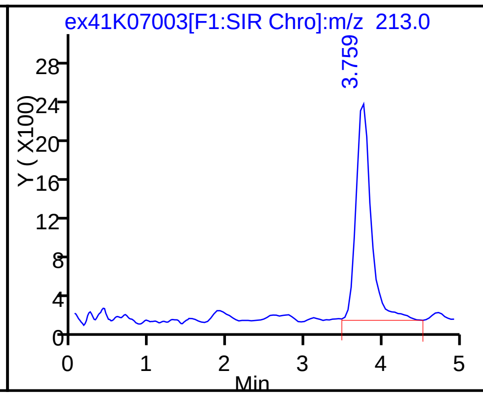
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



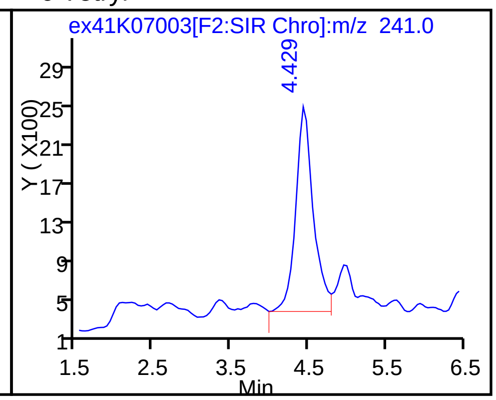
4 RDX



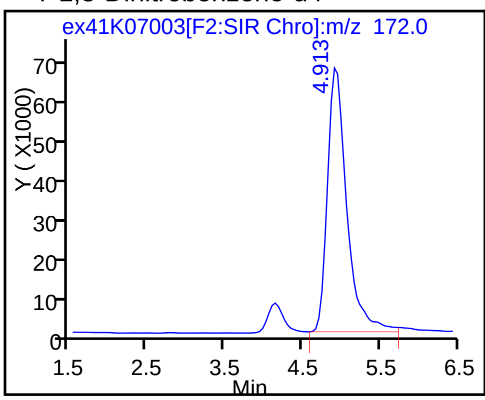
5 1,3,5-Trinitrobenzene



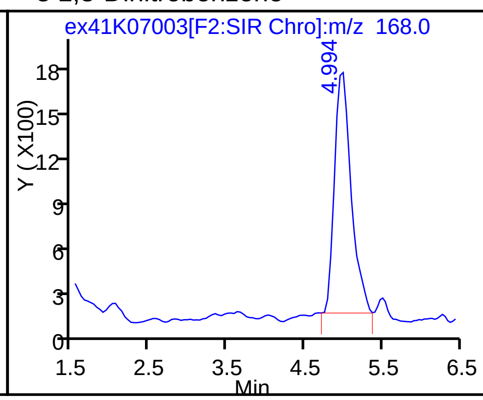
6 Tetryl



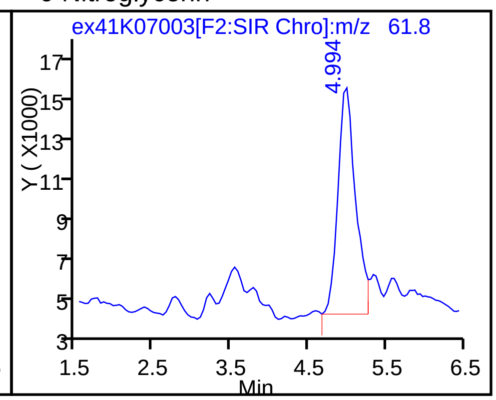
* 7 1,3-Dinitrobenzene-d4



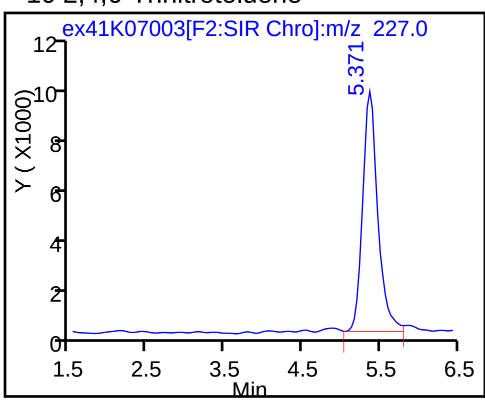
8 1,3-Dinitrobenzene



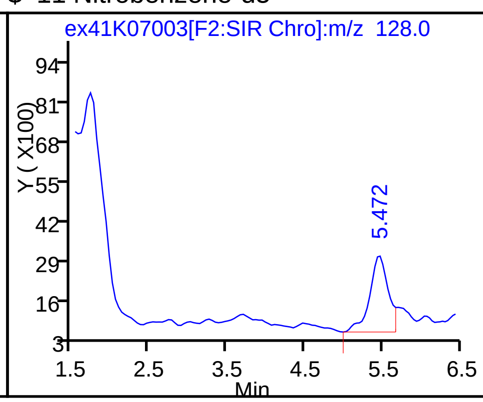
9 Nitroglycerin



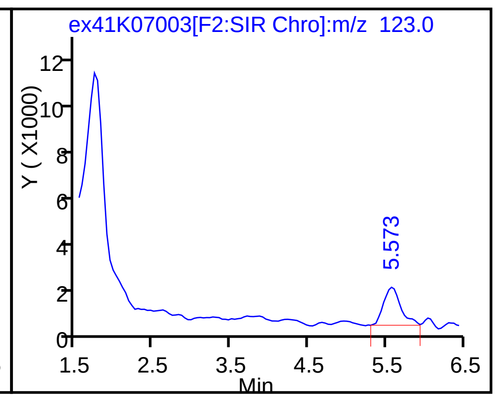
10 2,4,6-Trinitrotoluene



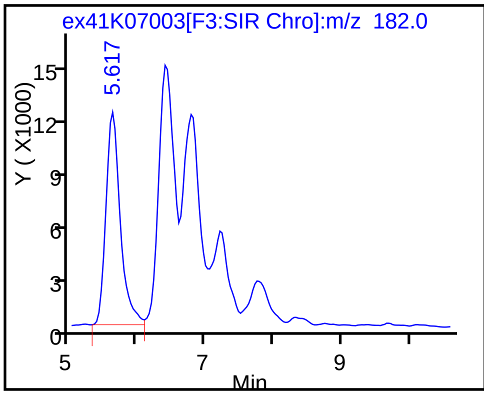
$ 11 Nitrobenzene-d5



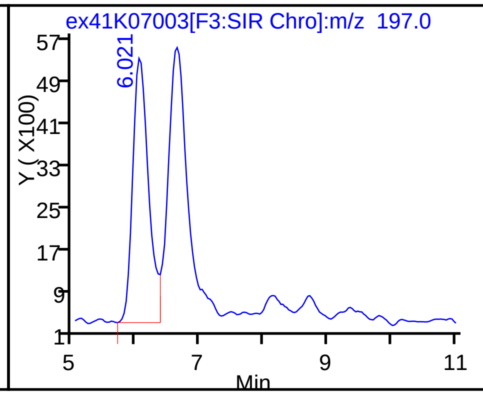
12 Nitrobenzene



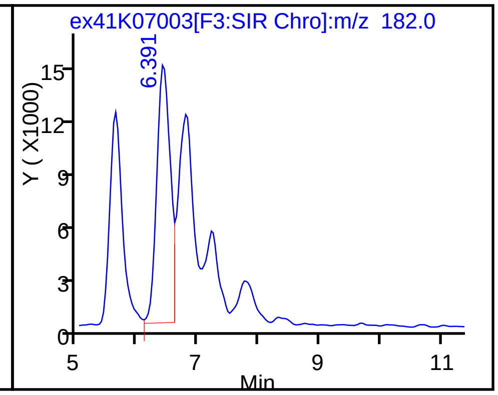
13 3,4-Dinitrotoluene



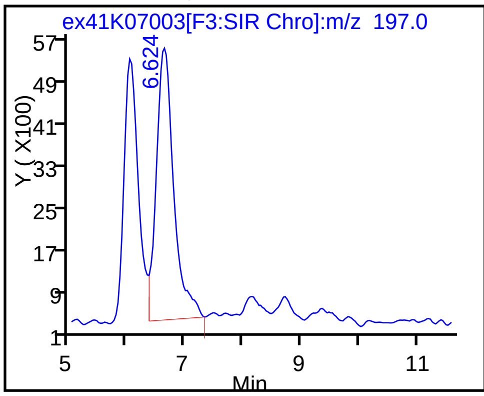
14 4-Amino-2,6-dinitrotoluene



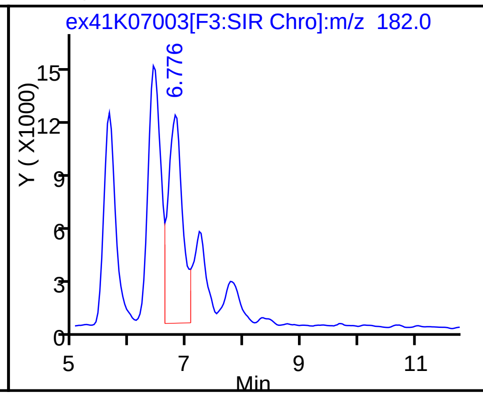
15 2,3-Dinitrotoluene



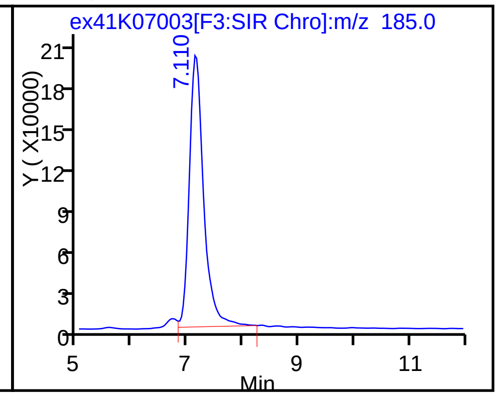
16 2-Amino-4,6-dinitrotoluene



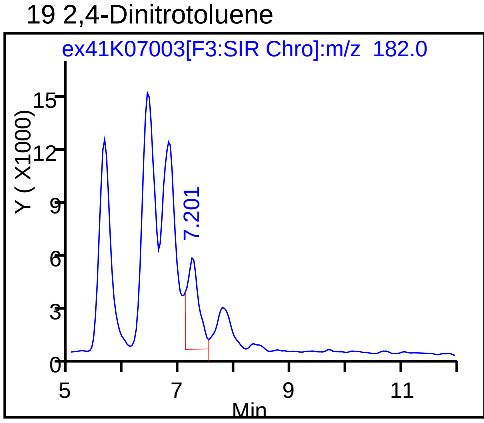
17 2,6-Dinitrotoluene



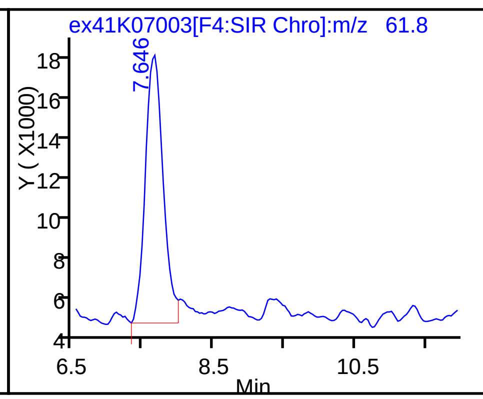
* 18 2,4-dinitrotoluene-d3



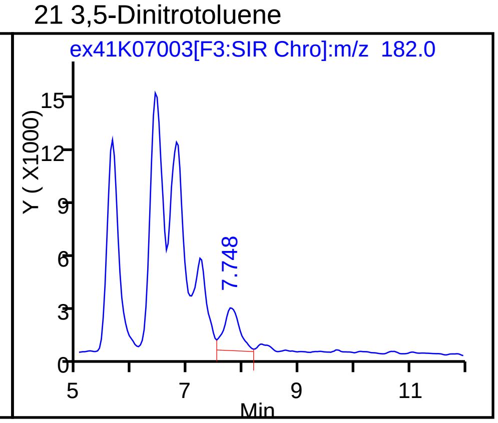
19 2,4-Dinitrotoluene



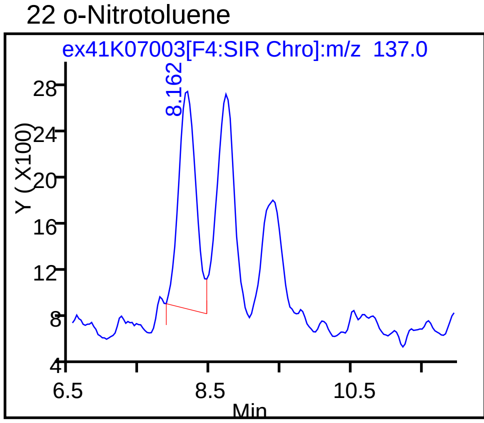
20 PETN



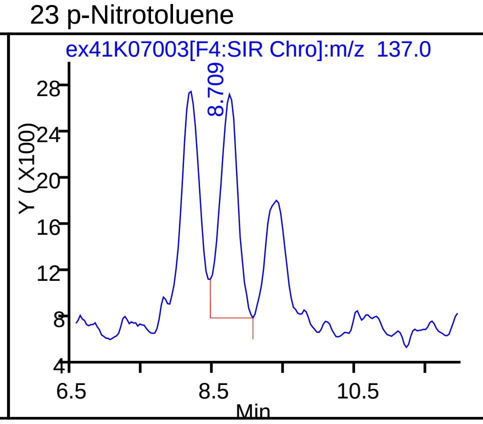
21 3,5-Dinitrotoluene



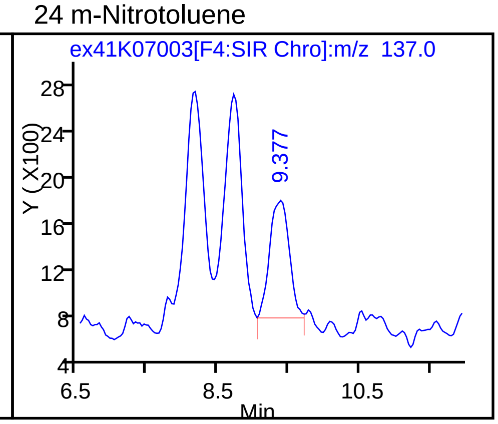
22 o-Nitrotoluene



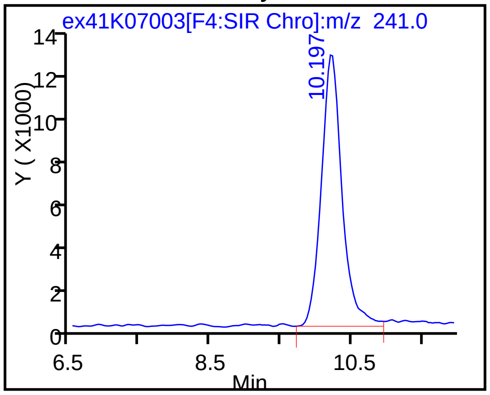
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07004.d		
Lims ID:	STD010	Client ID:	
Inject. Date:	07-Nov-2011 16:06:43	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	11/07/11EX2 STD010 ug/L 280-0002728-002		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	3
Lims Batch ID:	95155	Lims Sample ID:	2
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	08-Nov-2011 12:20:48	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

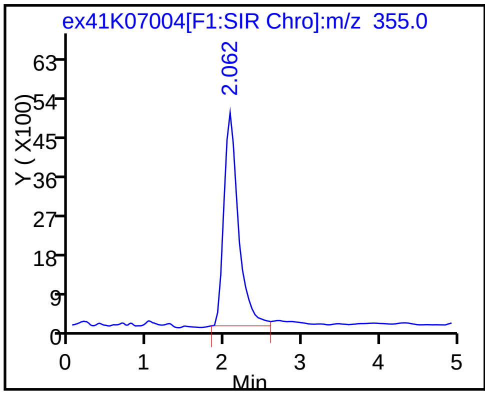
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	64636	9.63			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		771082	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	2.991	0.000		2313407	250.0			
4 RDX										
1	281.0	2.991	3.032	-0.041	1.000	91748	9.32			
5 1,3,5-Trinitrobenzene										
1	213.0	3.718	3.759	-0.041	1.000	51806	9.33			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	69715	10.2			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1251512	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.954	0.040	1.016	49907	9.91			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	268529	8.14			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	226029	8.88			
$ 11 Nitrobenzene-d5										
2	128.0	5.438	5.438	0.000	1.107	69823	8.61			
12 Nitrobenzene										
2	123.0	5.573	5.540	0.033	1.134	47043	9.10			
13 3,4-Dinitrotoluene										
3	182.0	5.583	5.617	-0.034	0.789	357445	9.91			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.021	6.021	0.000	0.851	190951	9.64			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.391	6.391	0.000	0.903	440345	9.17			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.594	6.594	0.000	0.931	205313	8.84			
17 2,6-Dinitrotoluene										
3	182.0	6.745	6.776	-0.031	0.953	386324	9.49			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.079	7.140	-0.061		3748641	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.140	7.170	-0.030	1.009	167878	9.88			
20 PETN										
4	61.8	7.616	7.616	0.000	1.000	457305	9.76			
21 3,5-Dinitrotoluene										
3	182.0	7.778	7.778	0.000	1.099	85545	9.45			
22 o-Nitrotoluene										
4	137.0	8.132	8.132	0.000	1.000	76673	10.4			
23 p-Nitrotoluene										
4	137.0	8.709	8.709	0.000	1.000	61088	9.47			
24 m-Nitrotoluene										
4	137.0	9.316	9.316	0.000	1.000	39607	9.79			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.167	10.197	-0.030	1.000	531729	8.97			

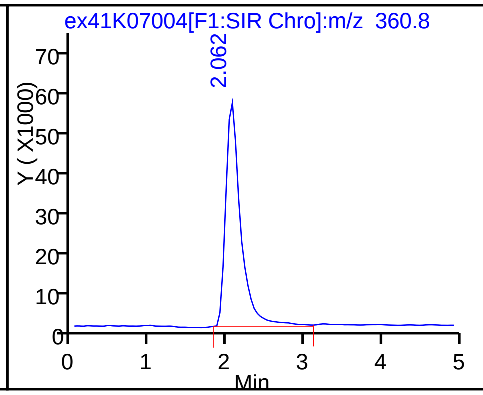
Report Date: 08-Nov-2011 12:20:48 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07004.d

Injection Date:	07-Nov-2011 16:06:43	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95155	Lims Sample ID:	2
Operator ID:		Injection Vol:	40.00 ul

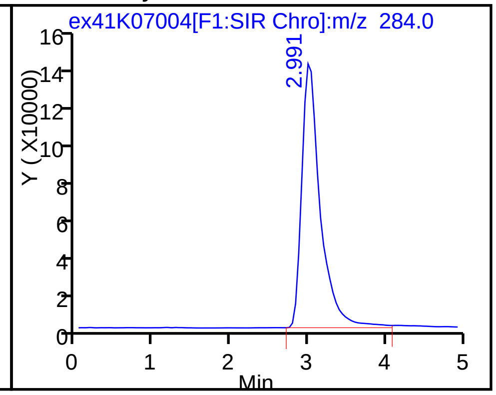
2 HMX



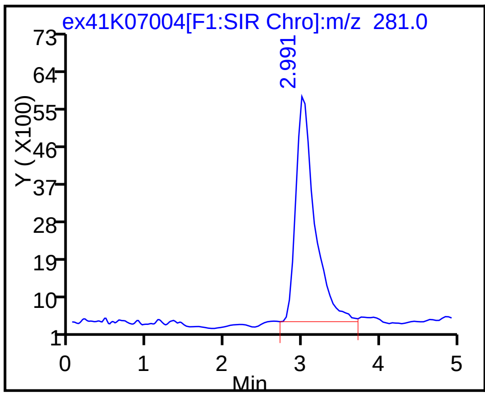
* 1 HMX-13C4



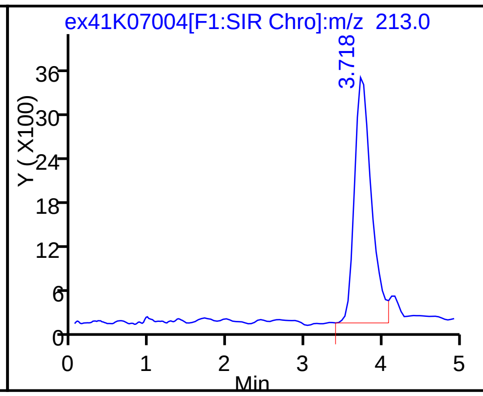
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



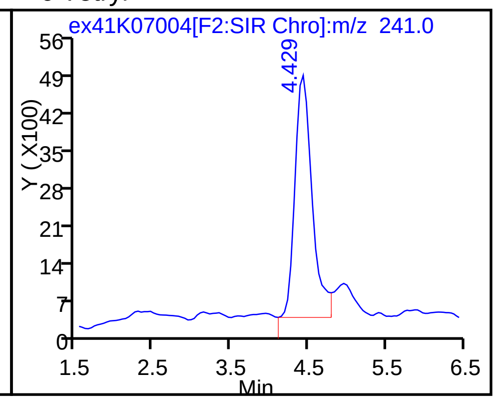
4 RDX



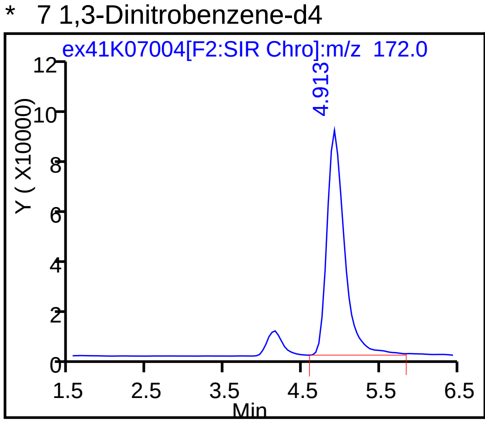
5 1,3,5-Trinitrobenzene



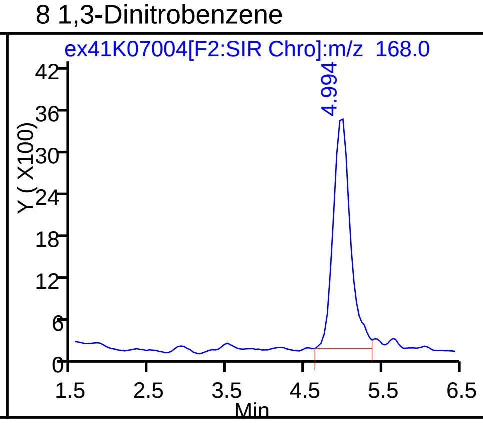
6 Tetryl



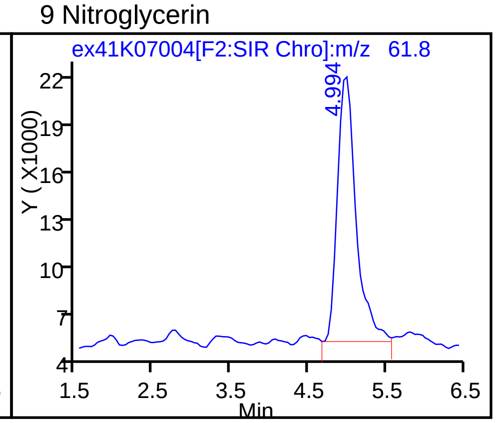
* 7 1,3-Dinitrobenzene-d4



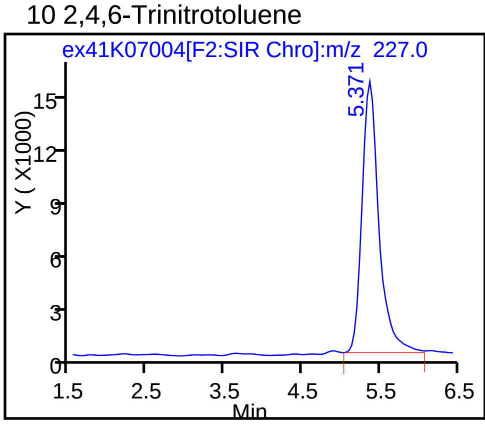
8 1,3-Dinitrobenzene



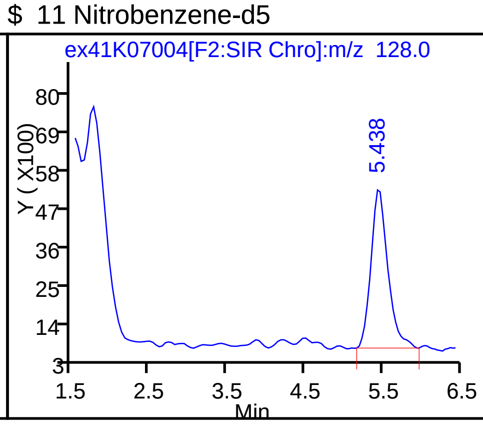
9 Nitroglycerin



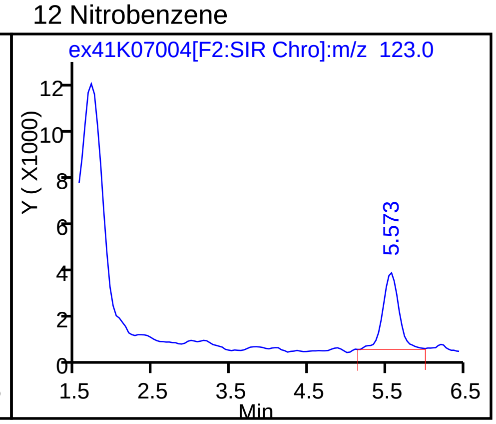
10 2,4,6-Trinitrotoluene



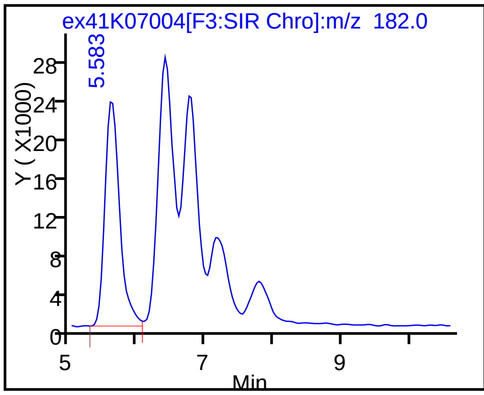
$ 11 Nitrobenzene-d5



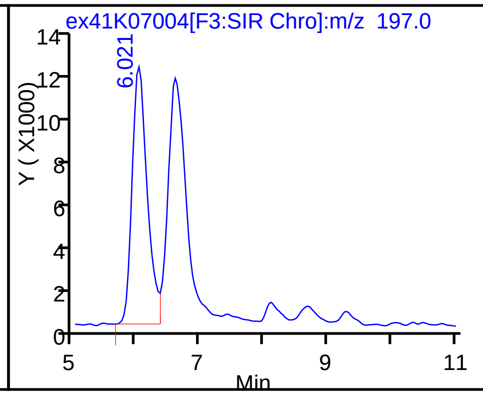
12 Nitrobenzene



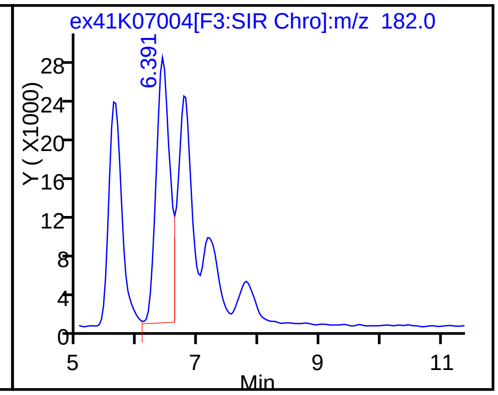
13 3,4-Dinitrotoluene



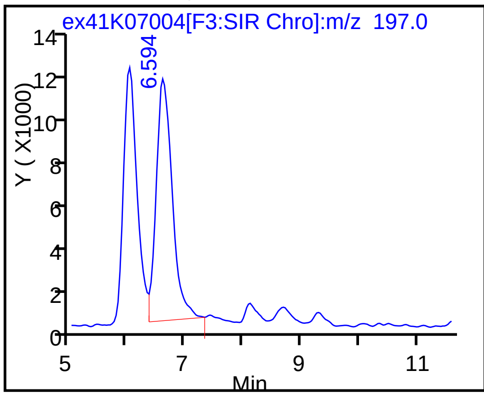
14 4-Amino-2,6-dinitrotoluene



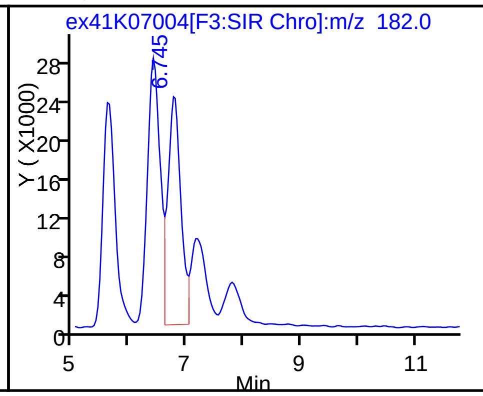
15 2,3-Dinitrotoluene



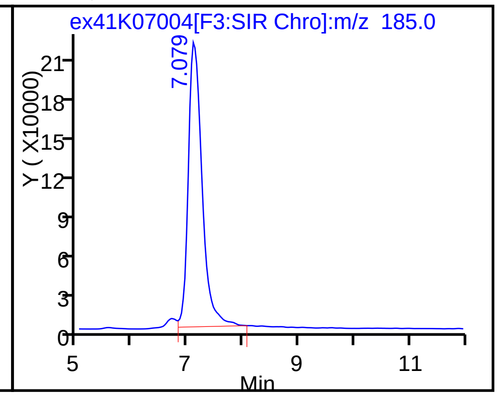
16 2-Amino-4,6-dinitrotoluene



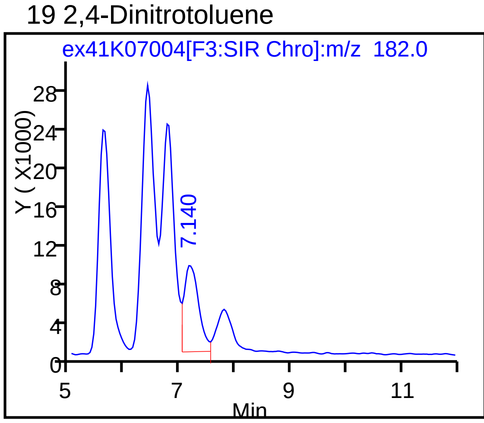
17 2,6-Dinitrotoluene



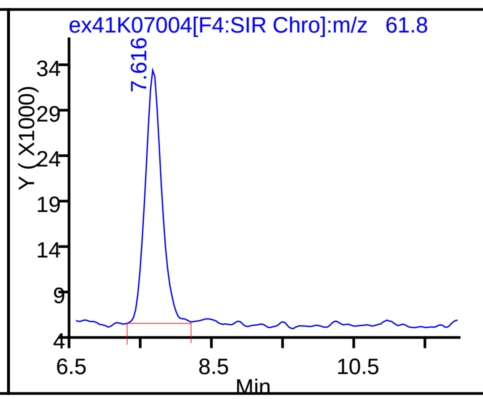
* 18 2,4-dinitrotoluene-d3



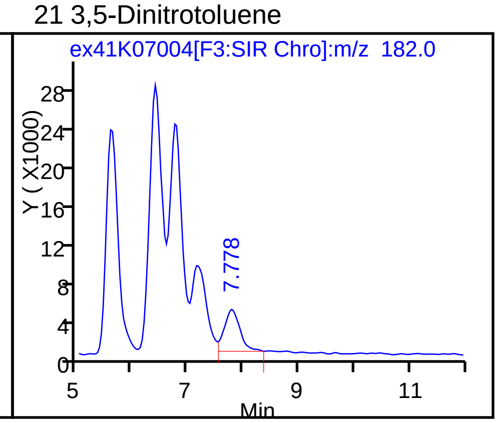
19 2,4-Dinitrotoluene



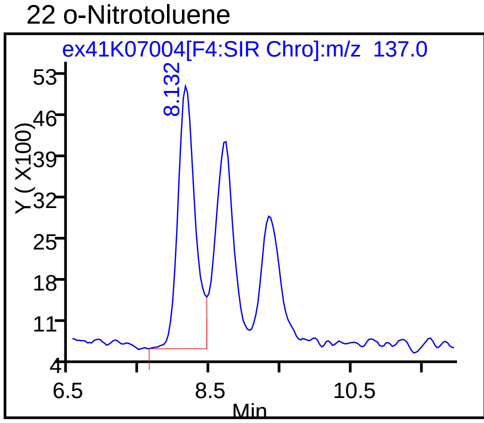
20 PETN



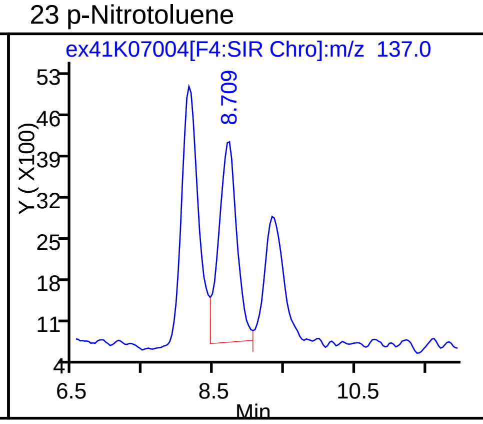
21 3,5-Dinitrotoluene



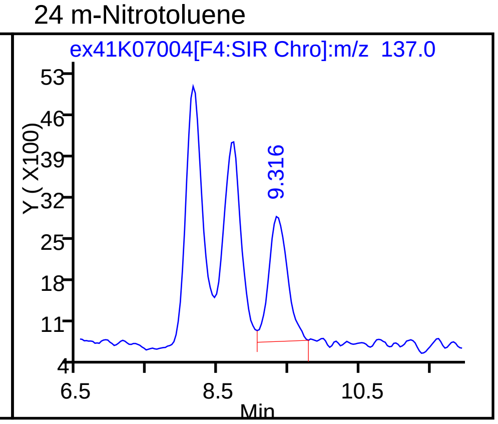
22 o-Nitrotoluene



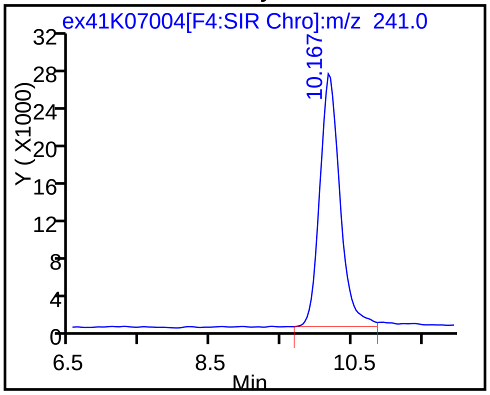
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07005.d		
Lims ID:	STD025	Client ID:	
Inject. Date:	07-Nov-2011 16:20:18	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	11/07/11EX3 STD025 ug/L 280-0002728-003		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	4
Lims Batch ID:	95155	Lims Sample ID:	3
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	08-Nov-2011 12:20:49	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

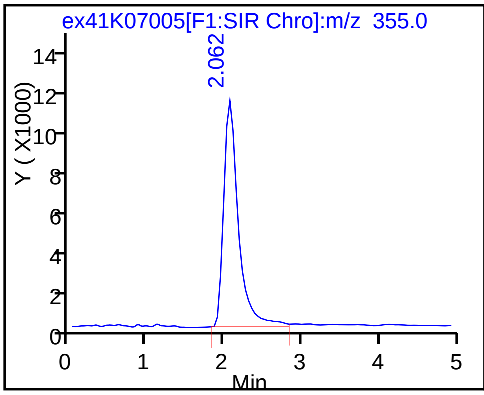
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	147042	25.0			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		684366	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2280569	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	232058	25.2			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	124844	22.2			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	147385	19.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1214012	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.954	4.954	0.000	1.008	118841	23.5			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	802959	24.5			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	551914	22.4			
$ 11 Nitrobenzene-d5										
2	128.0	5.439	5.438	0.001	1.107	158086	24.3			
12 Nitrobenzene										
2	123.0	5.573	5.540	0.033	1.134	115441	24.3			
13 3,4-Dinitrotoluene										
3	182.0	5.617	5.617	0.000	0.790	816285	23.2			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.021	6.021	0.000	0.847	479645	25.4			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.391	6.391	0.000	0.899	1049346	22.4			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.594	0.030	0.932	573779	23.4			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.776	0.000	0.953	1025579	25.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.110	7.140	-0.030		3653149	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.170	0.031	1.013	411440	22.4			
20 PETN										
4	61.8	7.646	7.616	0.030	1.000	1116371	25.7			
21 3,5-Dinitrotoluene										
3	182.0	7.778	7.778	0.000	1.094	232829	24.0			
22 o-Nitrotoluene										
4	137.0	8.132	8.132	0.000	1.000	183594	23.9			
23 p-Nitrotoluene										
4	137.0	8.679	8.709	-0.030	1.000	159916	23.8			
24 m-Nitrotoluene										
4	137.0	9.347	9.316	0.031	1.000	103174	24.0			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.197	10.197	0.000	1.000	1322184	23.0			

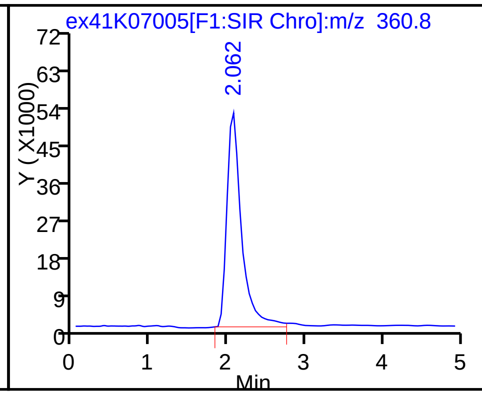
Report Date: 08-Nov-2011 12:20:49 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07005.d

Injection Date:	07-Nov-2011 16:20:18	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95155	Lims Sample ID:	3
Operator ID:		Injection Vol:	40.00 ul

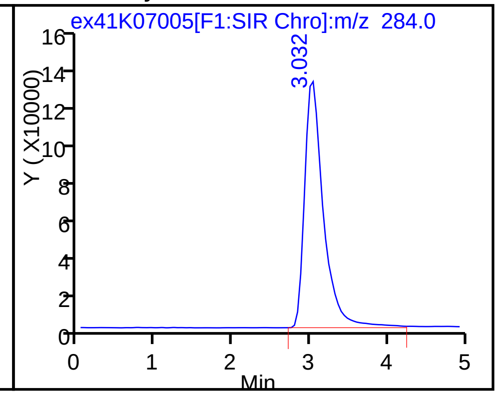
2 HMX



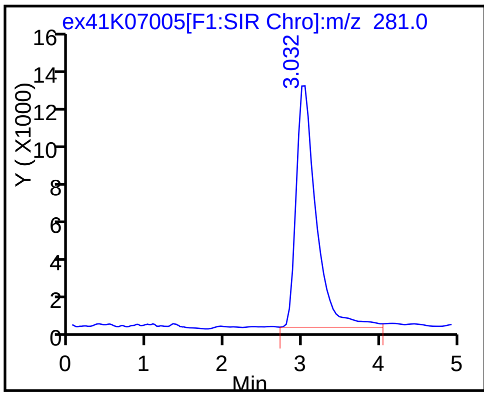
* 1 HMX-13C4



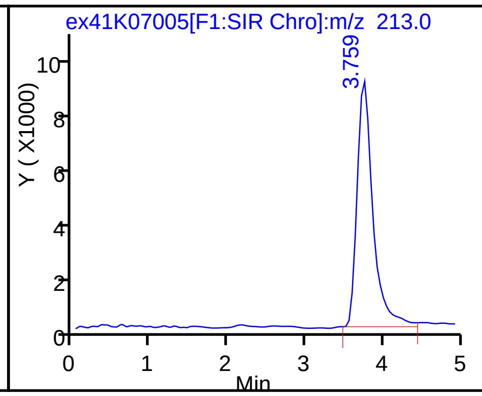
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



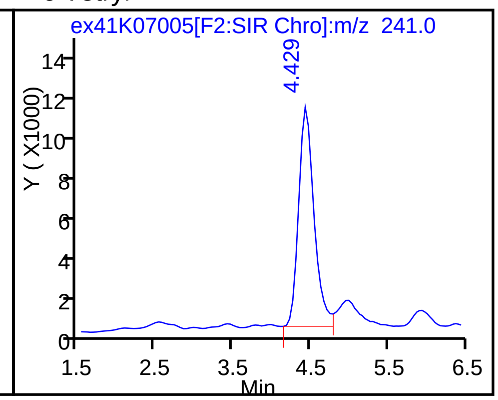
4 RDX



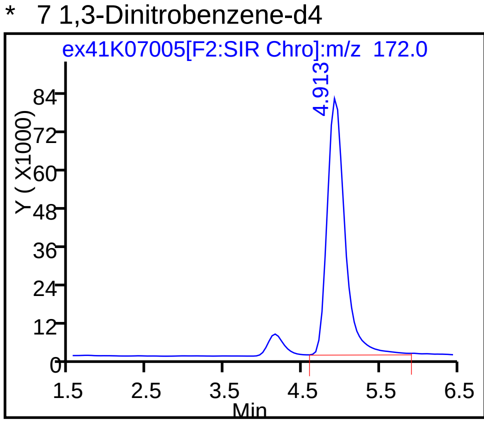
5 1,3,5-Trinitrobenzene



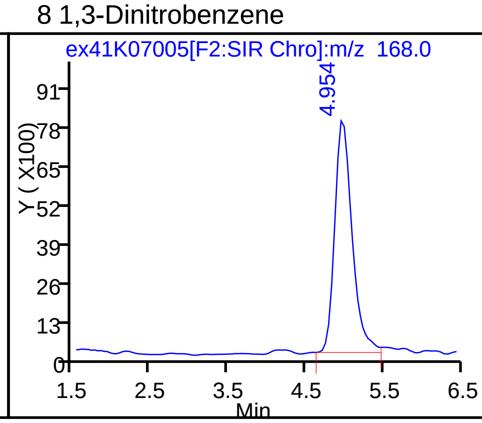
6 Tetryl



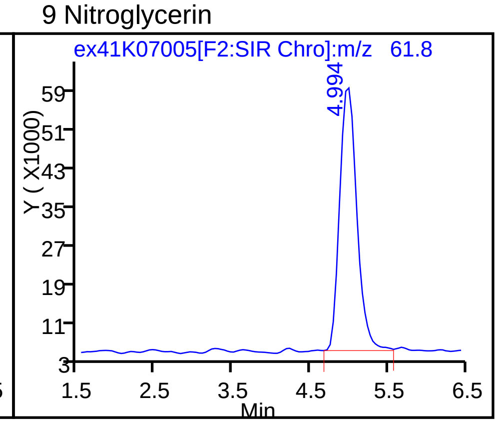
* 7 1,3-Dinitrobenzene-d4



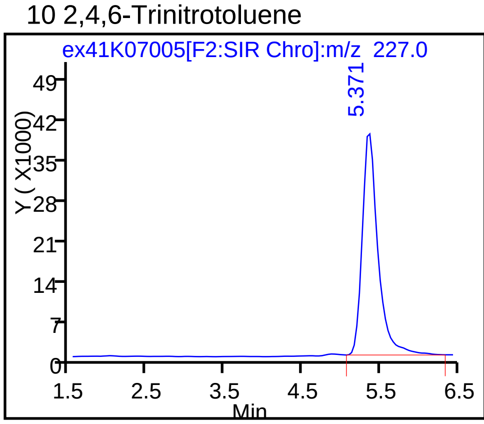
8 1,3-Dinitrobenzene



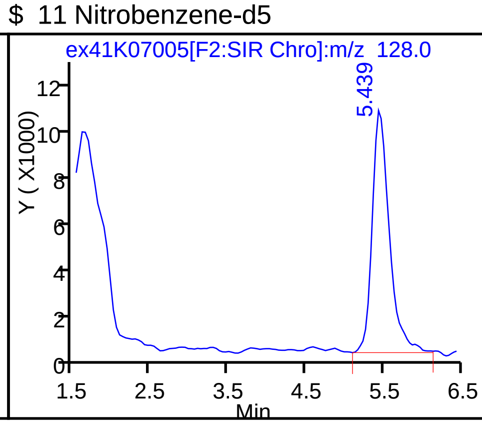
9 Nitroglycerin



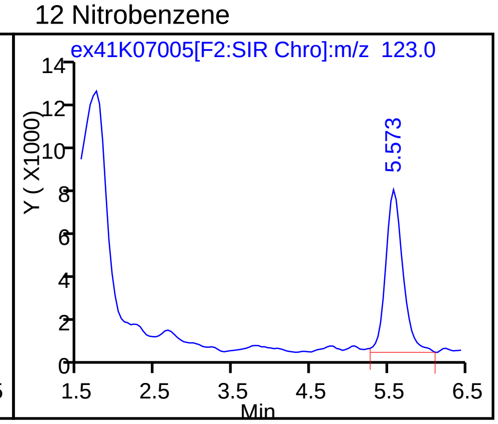
10 2,4,6-Trinitrotoluene



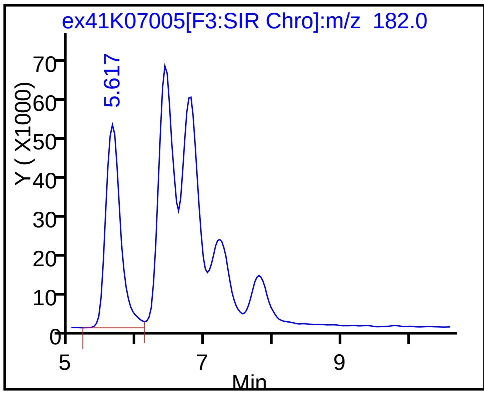
$ 11 Nitrobenzene-d5



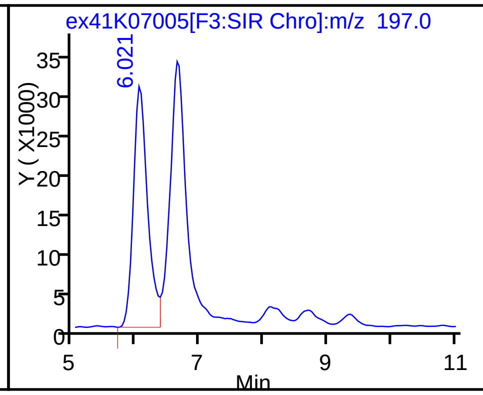
12 Nitrobenzene



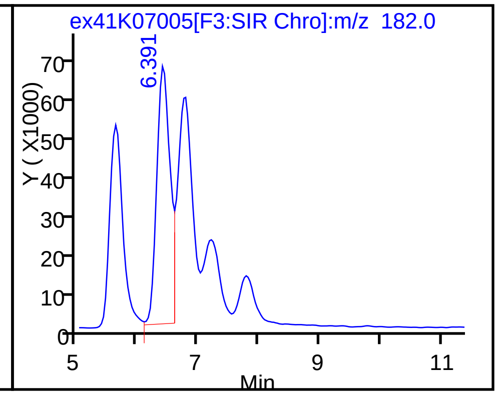
13 3,4-Dinitrotoluene



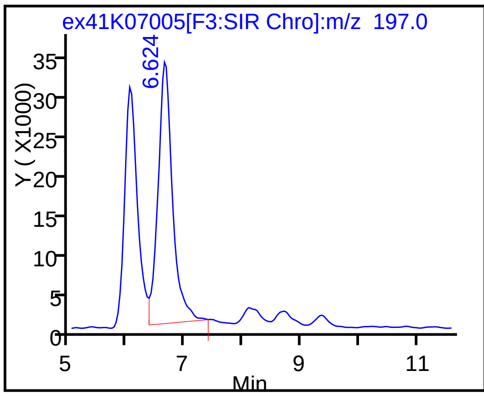
14 4-Amino-2,6-dinitrotoluene



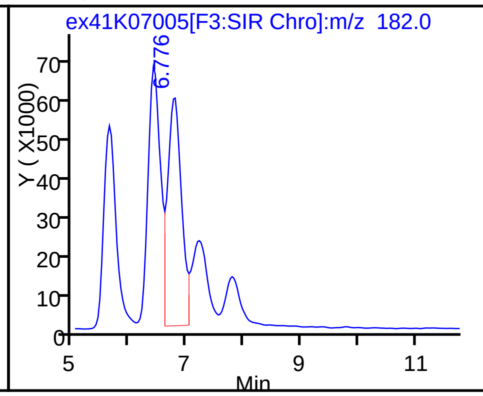
15 2,3-Dinitrotoluene



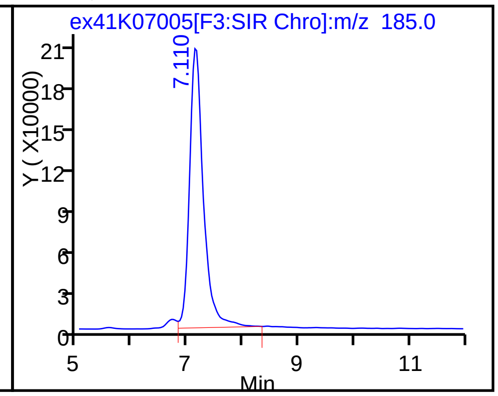
16 2-Amino-4,6-dinitrotoluene



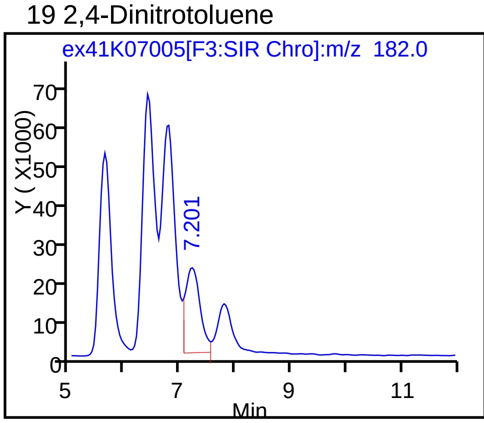
17 2,6-Dinitrotoluene



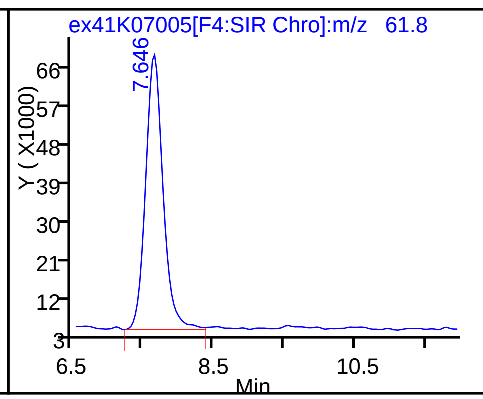
* 18 2,4-dinitrotoluene-d3



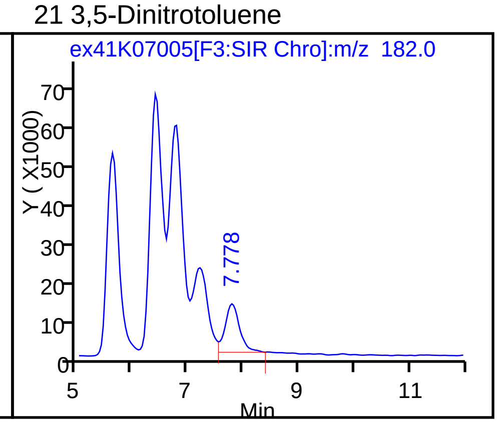
19 2,4-Dinitrotoluene



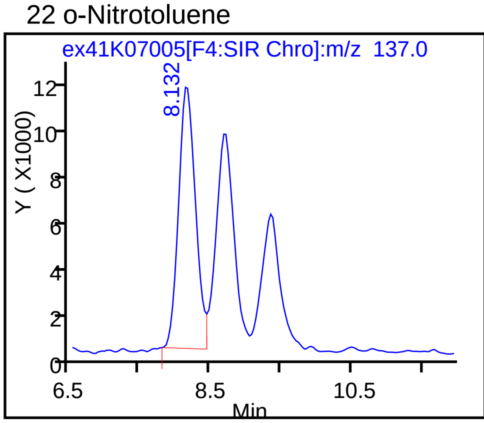
20 PETN



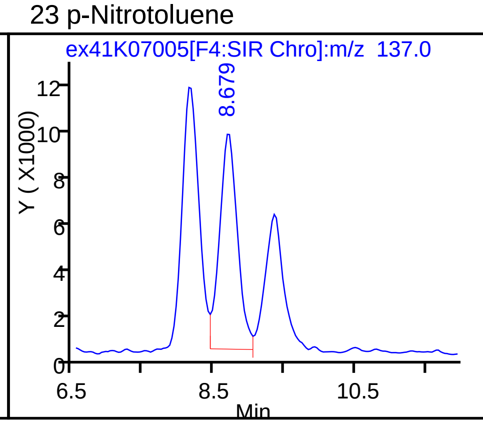
21 3,5-Dinitrotoluene



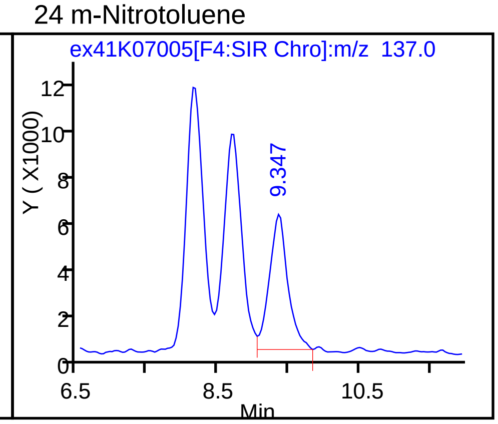
22 o-Nitrotoluene



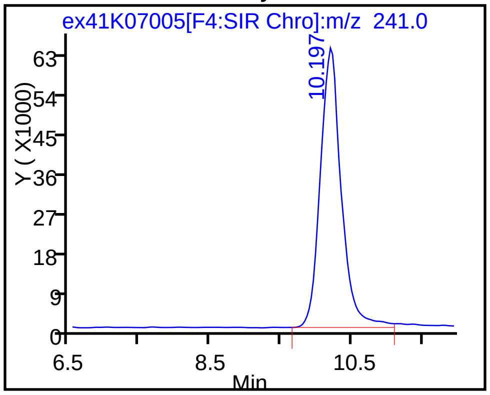
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07006.d		
Lims ID:	STD050	Client ID:	
Inject. Date:	07-Nov-2011 16:33:53	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	11/07/11EX4 STD050 ug/L 280-0002728-004		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	95155	Lims Sample ID:	4
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	08-Nov-2011 12:20:51	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

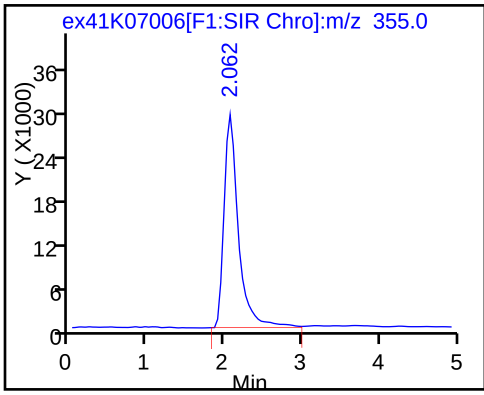
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	381710	51.9			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		860085	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	2.991	2.991	0.000		2683583	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.013	525095	49.3			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	273799	42.4			
	6 Tetryl									
2	241.0	4.429	4.429	0.000	0.901	380111	43.0			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.913	4.913	0.000		1374439	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	4.954	4.954	0.000	1.008	297521	51.4			
	9 Nitroglycerin									
2	61.8	4.994	4.994	0.000	1.016	1941319	52.0			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.371	5.371	0.000	1.093	1578638	56.7			
$	11 Nitrobenzene-d5									
2	128.0	5.472	5.438	0.034	1.114	405858	59.2			
	12 Nitrobenzene									
2	123.0	5.573	5.540	0.033	1.134	295152	56.1			
	13 3,4-Dinitrotoluene									
3	182.0	5.617	5.617	0.000	0.790	2508183	52.6			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.021	6.021	0.000	0.847	1286012	50.4			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.391	6.391	0.000	0.899	3413673	53.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.594	6.594	0.000	0.927	1772735	52.0			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.776	0.000	0.953	2568387	46.5			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.110	7.140	-0.030		4966307	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.170	0.031	1.013	1324736	50.8			
20 PETN										
4	61.8	7.646	7.616	0.030	1.000	2978430	52.1			
21 3,5-Dinitrotoluene										
3	182.0	7.778	7.778	0.000	1.094	618023	45.5			
22 o-Nitrotoluene										
4	137.0	8.132	8.132	0.000	1.000	511304	47.6			
23 p-Nitrotoluene										
4	137.0	8.709	8.709	0.000	1.000	446165	47.7			
24 m-Nitrotoluene										
4	137.0	9.347	9.316	0.031	1.000	282805	47.0			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.197	10.197	0.000	1.000	4143545	63.7			

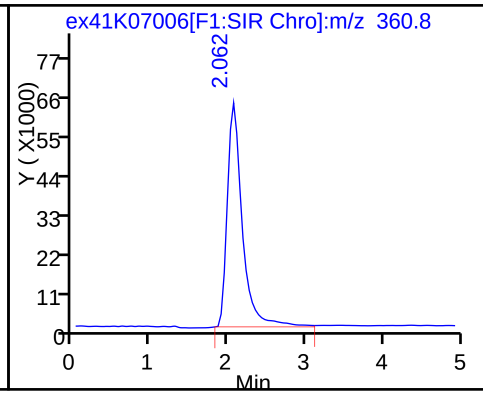
Report Date: 08-Nov-2011 12:20:51 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07006.d

Injection Date:	07-Nov-2011 16:33:53	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95155	Lims Sample ID:	4
Operator ID:		Injection Vol:	40.00 ul

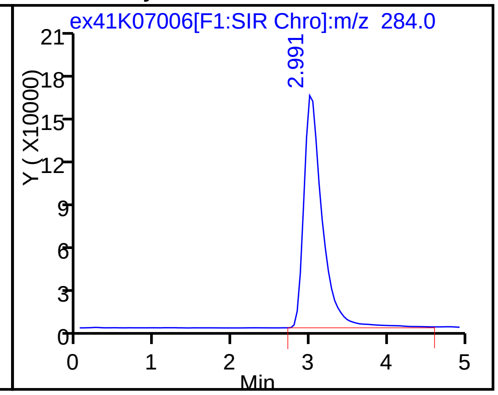
2 HMX



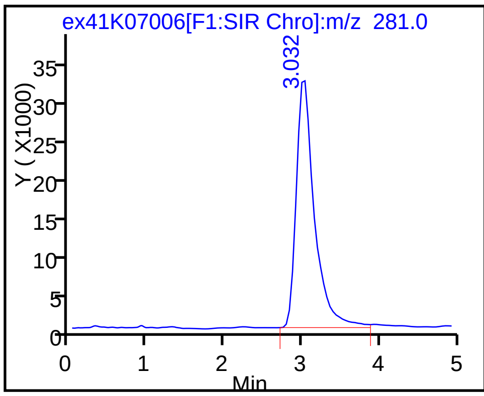
* 1 HMX-13C4



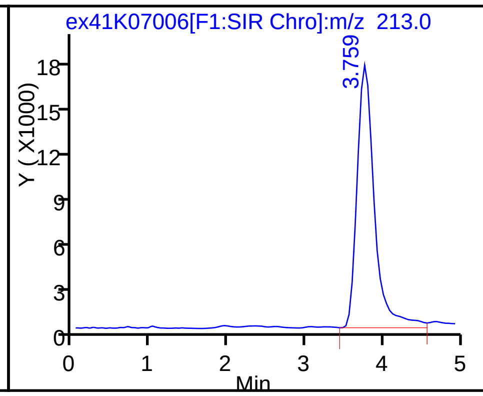
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



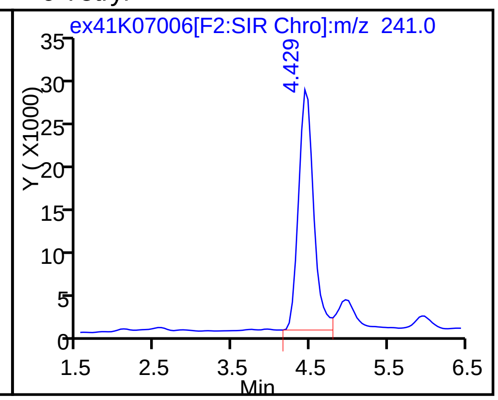
4 RDX



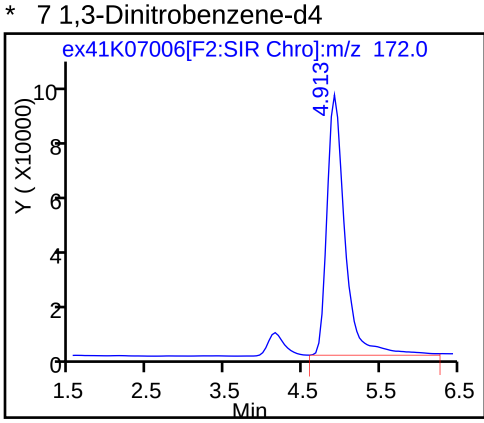
5 1,3,5-Trinitrobenzene



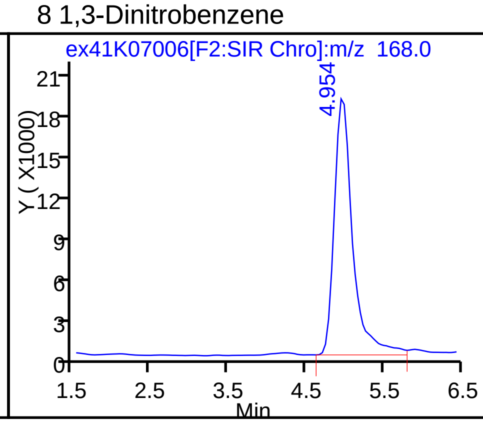
6 Tetryl



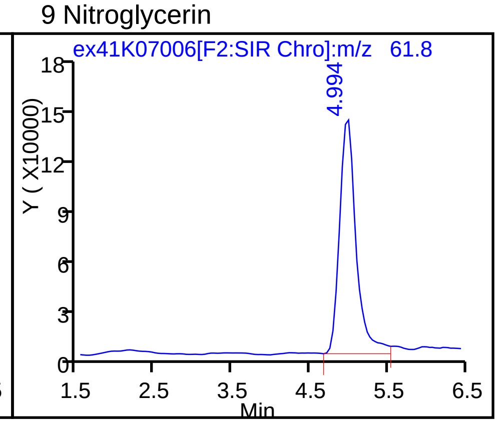
* 7 1,3-Dinitrobenzene-d4



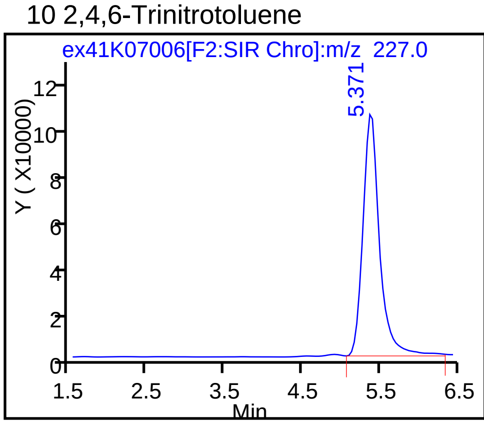
8 1,3-Dinitrobenzene



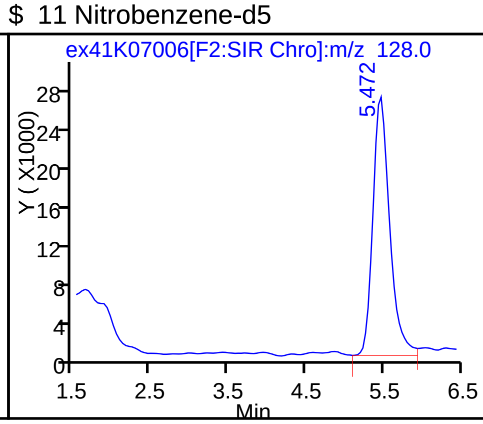
9 Nitroglycerin



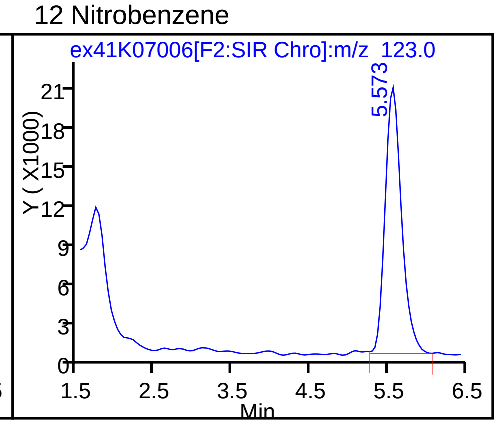
10 2,4,6-Trinitrotoluene



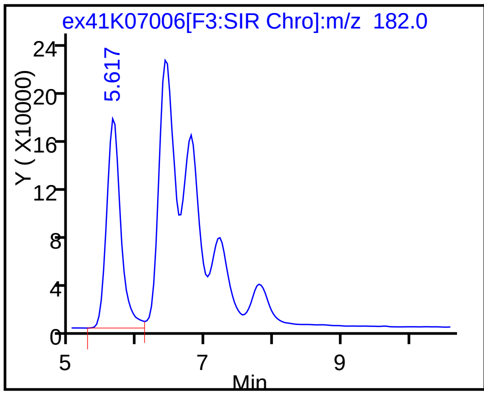
$ 11 Nitrobenzene-d5



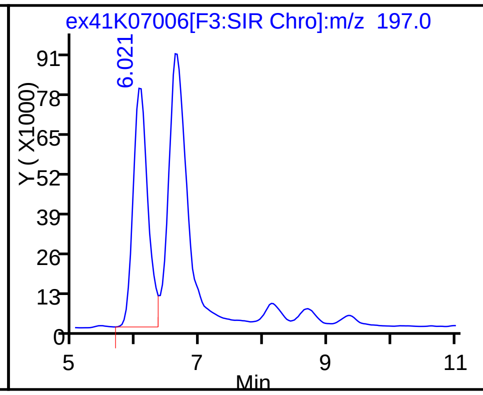
12 Nitrobenzene



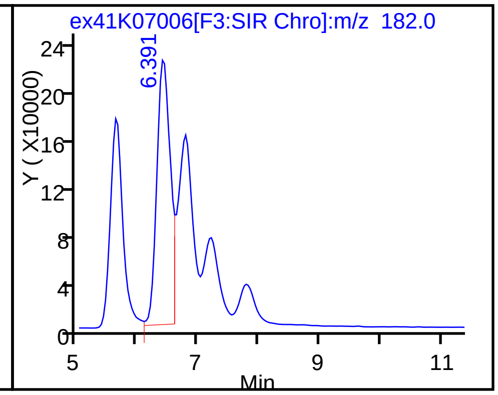
13 3,4-Dinitrotoluene



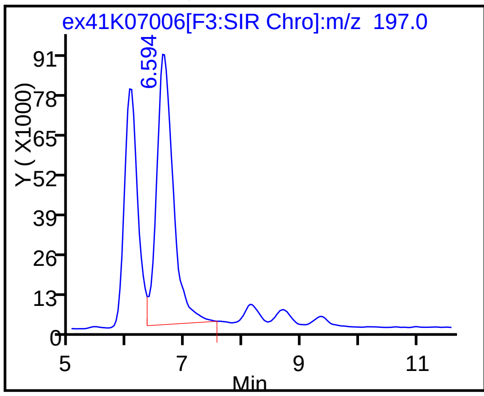
14 4-Amino-2,6-dinitrotoluene



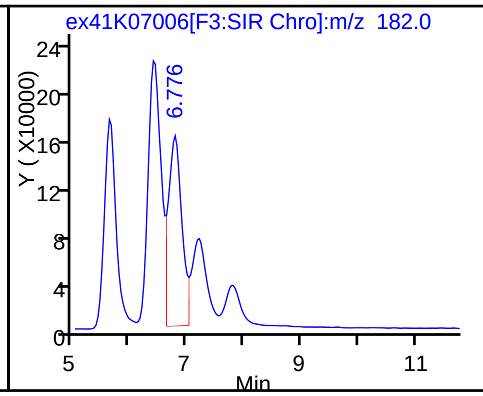
15 2,3-Dinitrotoluene



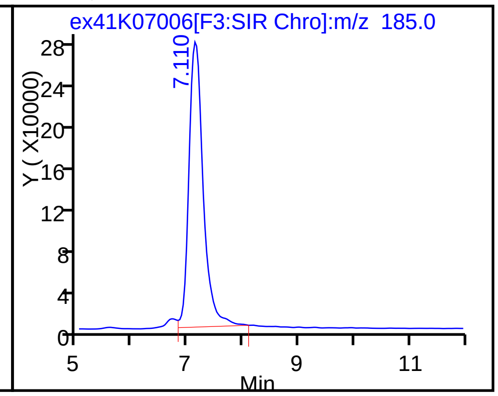
16 2-Amino-4,6-dinitrotoluene



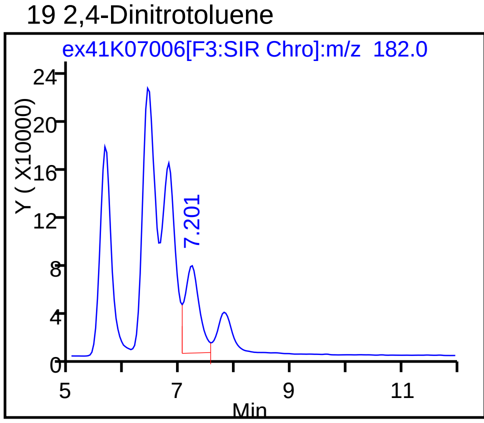
17 2,6-Dinitrotoluene



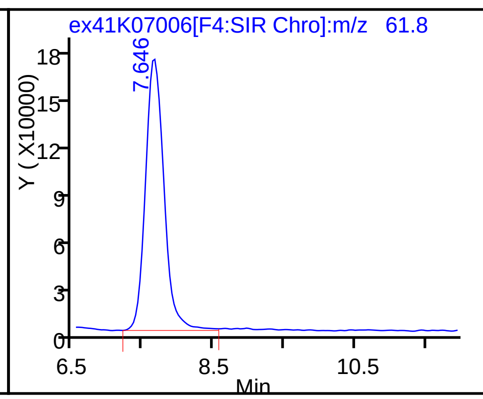
* 18 2,4-dinitrotoluene-d3



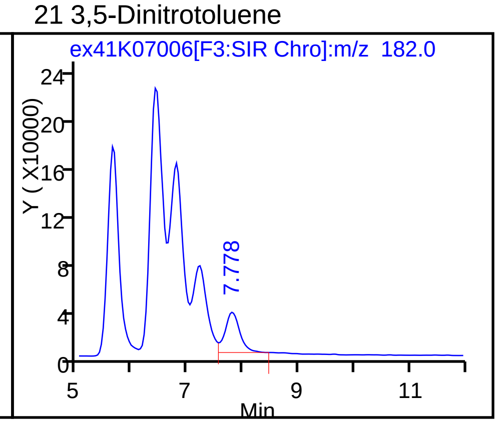
19 2,4-Dinitrotoluene



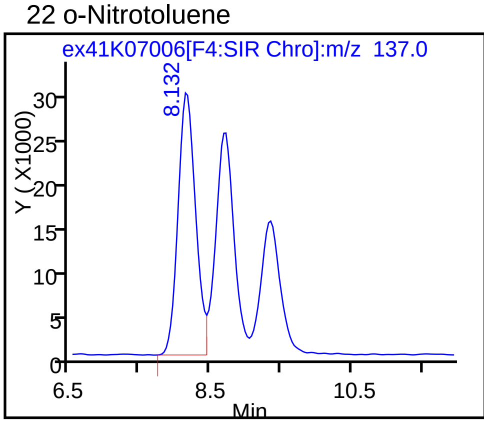
20 PETN



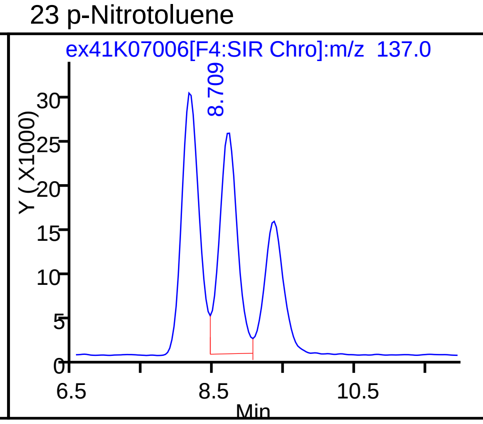
21 3,5-Dinitrotoluene



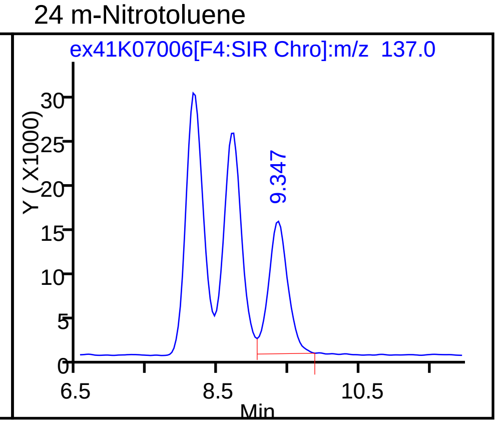
22 o-Nitrotoluene



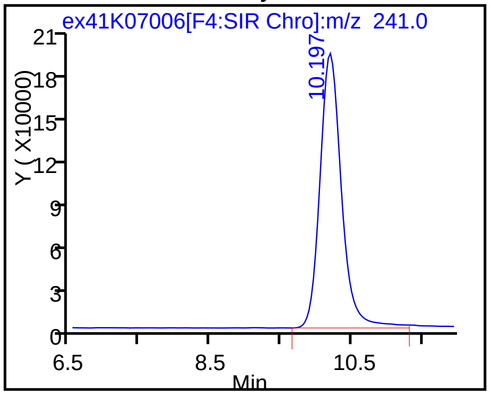
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

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Inject. Date:	07-Nov-2011 16:47:27	Dil. Factor:	1.0000
Sample Type:	ICISAV	Calib Level:	5
Sample ID:	11/07/11EX5 STD100 ug/L 280-0002728-005		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	95155	Lims Sample ID:	5
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	08-Nov-2011 12:20:52	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

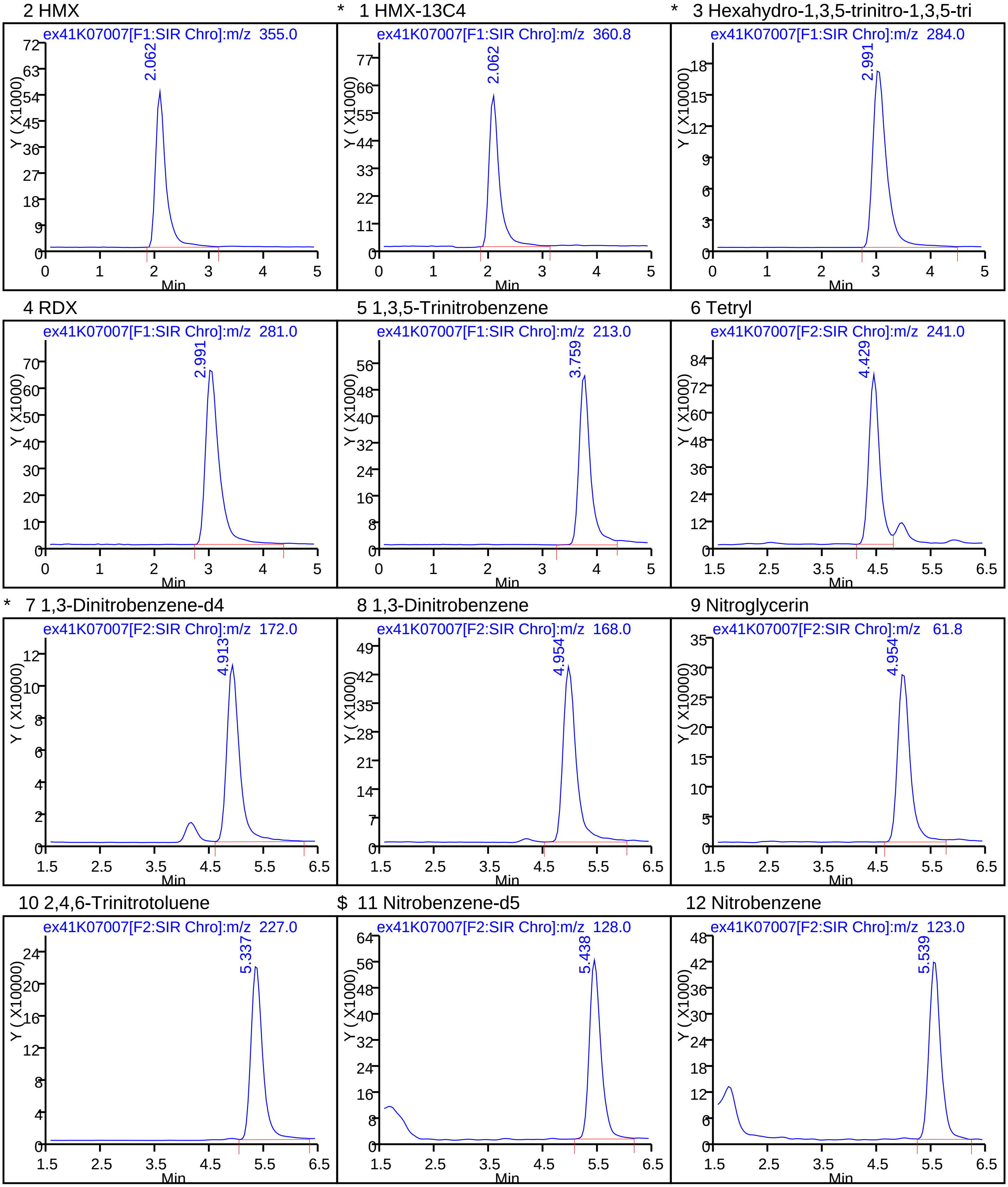
First Level Reviewer: meyera Date: 08-Nov-2011 06:54:11

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	733331	103.3			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		832296	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	2.991	0.000		3022377	250.0			
4 RDX										
1	281.0	2.991	2.991	0.000	1.000	1180321	99.3			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	770582	100.5			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	1068115	100.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1619714	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.954	4.954	0.000	1.008	707781	103.2			
9 Nitroglycerin										
2	61.8	4.954	4.954	0.000	1.008	4305324	97.6			
10 2,4,6-Trinitrotoluene										
2	227.0	5.337	5.337	0.000	1.086	3393218	103.5			
$ 11 Nitrobenzene-d5										
2	128.0	5.438	5.438	0.000	1.107	820445	103.9			
12 Nitrobenzene										
2	123.0	5.539	5.539	0.000	1.127	620838	100.8			
13 3,4-Dinitrotoluene										
3	182.0	5.583	5.583	0.000	0.785	4719421	100.5			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.021	6.021	0.000	0.847	2564597	102.5			

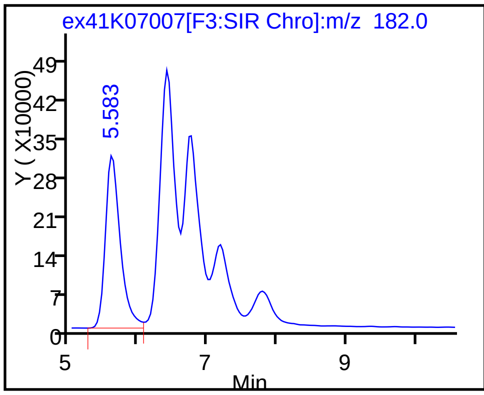
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.391	6.391	0.000	0.899	7042608	112.5			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.594	6.594	0.000	0.927	3548842	104.7			
17 2,6-Dinitrotoluene										
3	182.0	6.745	6.745	0.000	0.949	5461192	100.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.110	7.110	0.000		4886802	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.170	7.170	0.000	1.009	2555806	98.1			
20 PETN										
4	61.8	7.616	7.616	0.000	1.000	5078314	94.1			
21 3,5-Dinitrotoluene										
3	182.0	7.778	7.778	0.000	1.094	1295014	95.5			
22 o-Nitrotoluene										
4	137.0	8.132	8.132	0.000	1.000	971007	90.8			
23 p-Nitrotoluene										
4	137.0	8.679	8.679	0.000	1.000	839752	90.4			
24 m-Nitrotoluene										
4	137.0	9.316	9.316	0.000	1.000	544263	90.7			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.167	10.167	0.000	1.000	7282336	95.0			

Report Date: 08-Nov-2011 12:20:52 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07007.d

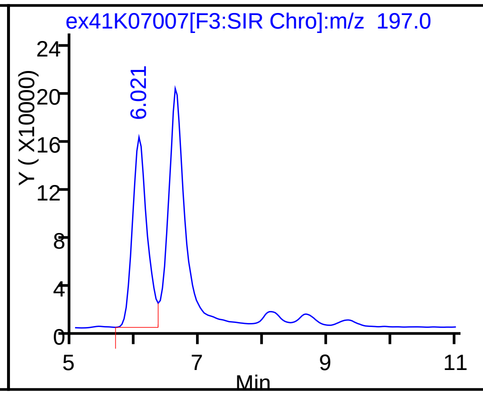
Injection Date:	07-Nov-2011 16:47:27	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95155	Lims Sample ID:	5
Operator ID:		Injection Vol:	40.00 ul



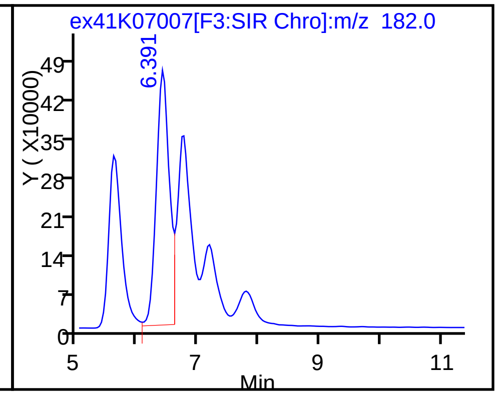
13 3,4-Dinitrotoluene



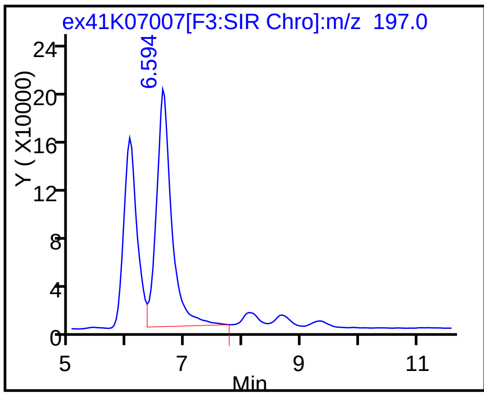
14 4-Amino-2,6-dinitrotoluene



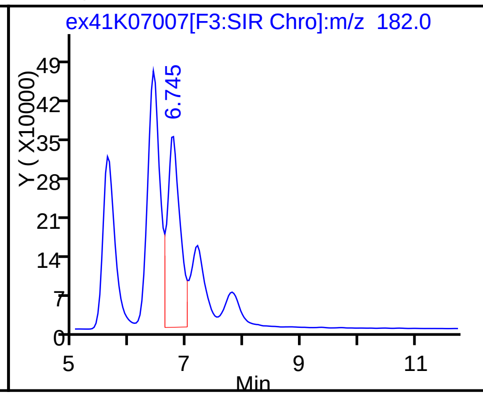
15 2,3-Dinitrotoluene



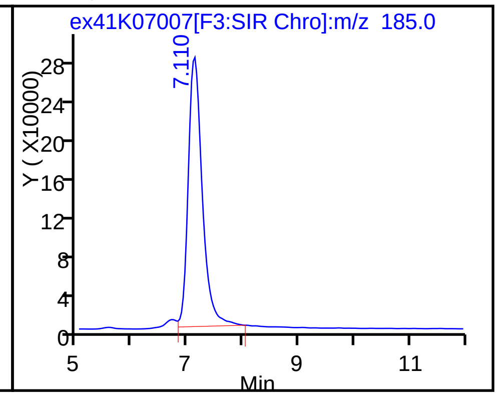
16 2-Amino-4,6-dinitrotoluene



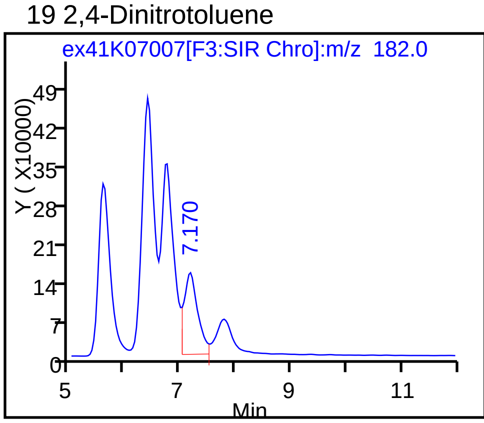
17 2,6-Dinitrotoluene



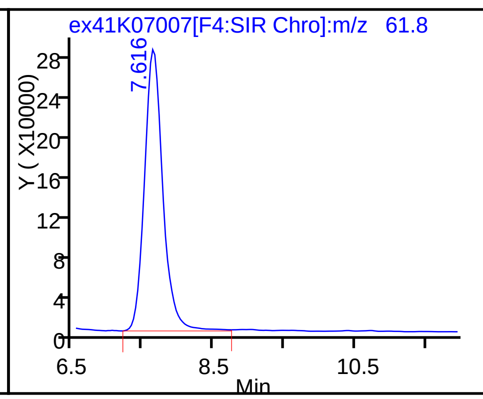
* 18 2,4-dinitrotoluene-d3



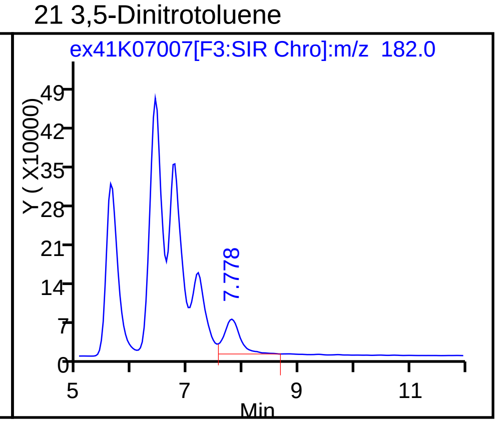
19 2,4-Dinitrotoluene



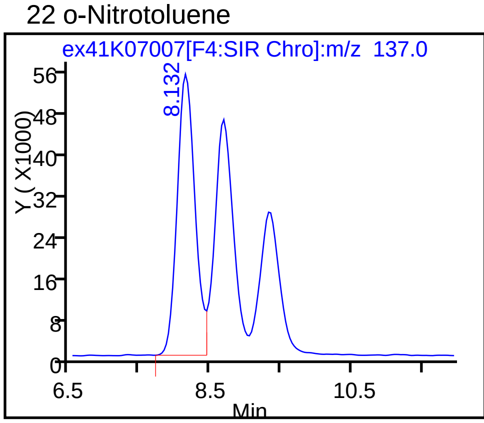
20 PETN



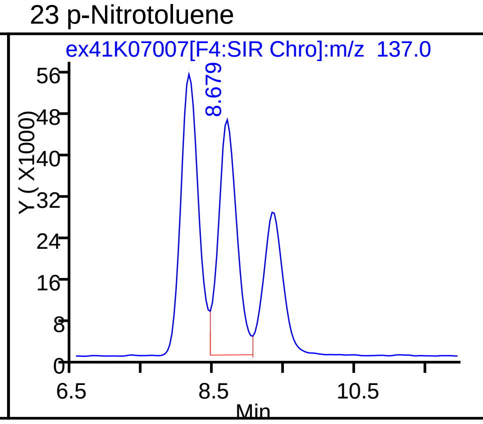
21 3,5-Dinitrotoluene



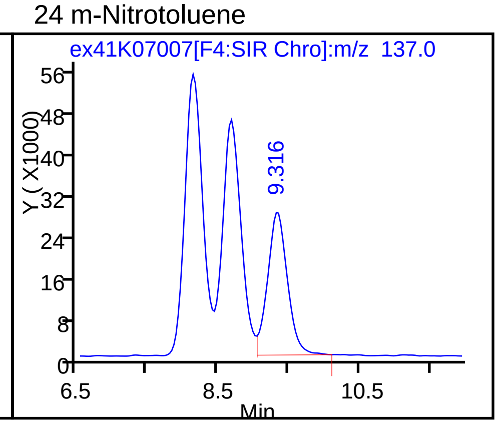
22 o-Nitrotoluene



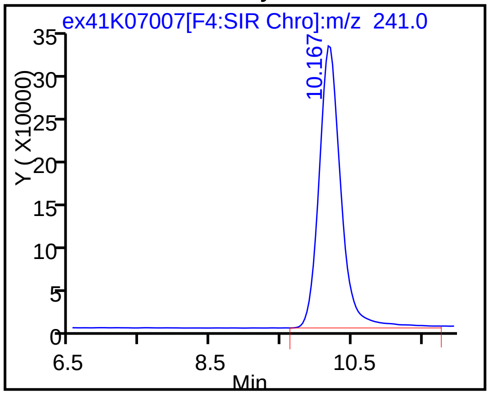
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07008.d		
Lims ID:	STD200	Client ID:	
Inject. Date:	07-Nov-2011 17:01:02	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	11/07/11EX6 STD200 ug/L 280-0002728-006		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	7
Lims Batch ID:	95155	Lims Sample ID:	6
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	08-Nov-2011 12:20:53	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

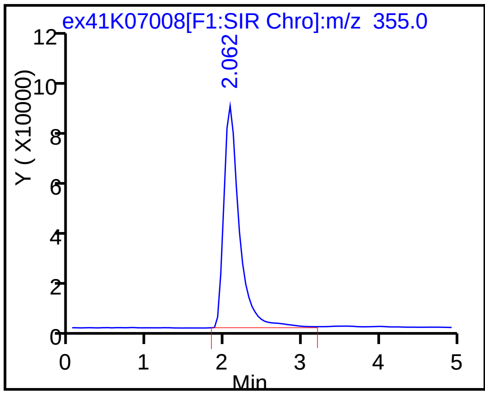
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	1233796	198.9			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		727798	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	2.991	0.041		2626765	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	2034041	197.6			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	1720550	207.0			
	6 Tetryl									
2	241.0	4.429	4.429	0.000	0.894	2231145	191.7			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.913	0.041		1749010	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	4.994	4.954	0.040	1.008	1502288	202.4			
	9 Nitroglycerin									
2	61.8	4.994	4.994	0.000	1.008	9364187	196.4			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.371	5.337	0.034	1.084	7086956	200.2			
$	11 Nitrobenzene-d5									
2	128.0	5.472	5.438	0.034	1.105	1633639	194.3			
	12 Nitrobenzene									
2	123.0	5.573	5.539	0.034	1.125	1324862	200.0			
	13 3,4-Dinitrotoluene									
3	182.0	5.651	5.617	0.034	0.791	10153598	222.8			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.055	6.021	0.034	0.848	5139458	211.9			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.391	0.034	0.900	13583925	223.4			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.624	0.030	0.932	7295151	220.4			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.745	0.031	0.949	11410541	215.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.110	0.030		4745546	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.170	0.031	1.009	5327879	208.7			
20 PETN										
4	61.8	7.677	7.616	0.061	1.000	9662559	204.9			
21 3,5-Dinitrotoluene										
3	182.0	7.808	7.778	0.030	1.094	2587318	195.0			
22 o-Nitrotoluene										
4	137.0	8.163	8.162	0.001	1.000	2123609	203.0			
23 p-Nitrotoluene										
4	137.0	8.709	8.679	0.030	1.000	1823076	200.9			
24 m-Nitrotoluene										
4	137.0	9.377	9.347	0.030	1.000	1112839	189.5			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.227	10.197	0.030	1.000	14349104	173.3			

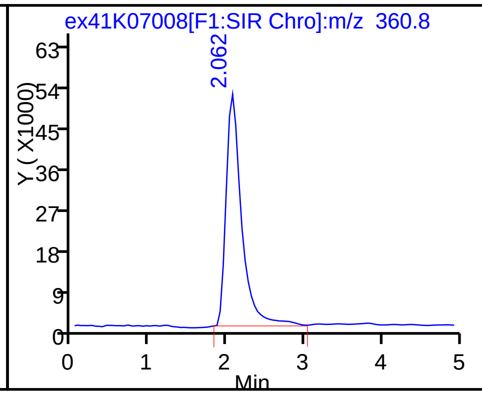
Report Date: 08-Nov-2011 12:20:53 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07008.d

Injection Date:	07-Nov-2011 17:01:02	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95155	Lims Sample ID:	6
Operator ID:		Injection Vol:	40.00 ul

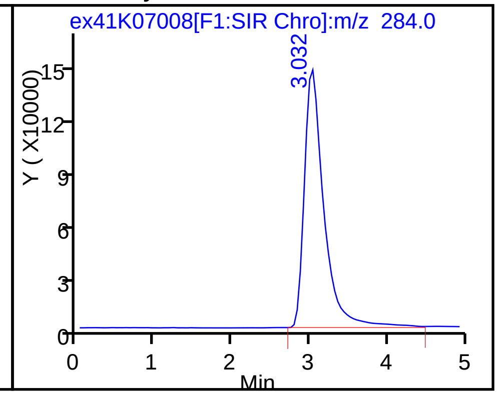
2 HMX



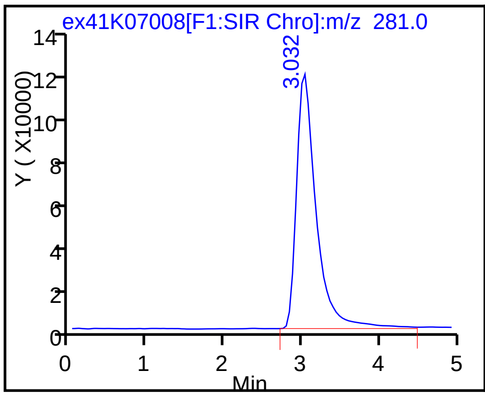
* 1 HMX-13C4



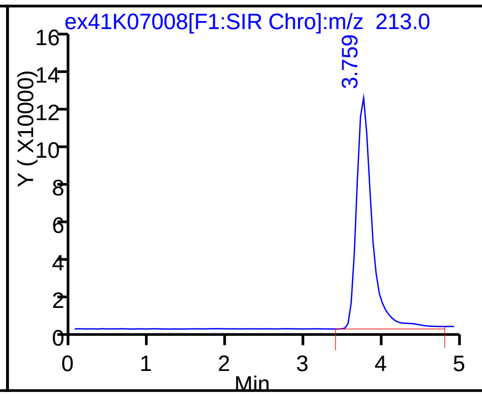
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



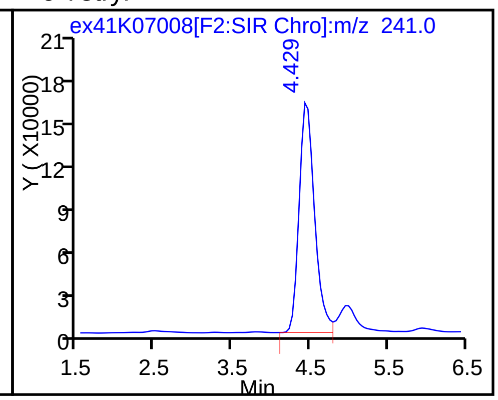
4 RDX



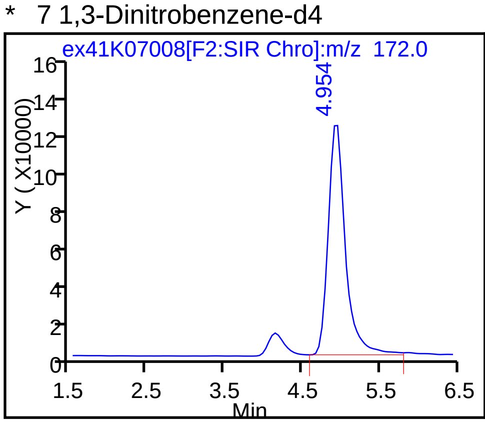
5 1,3,5-Trinitrobenzene



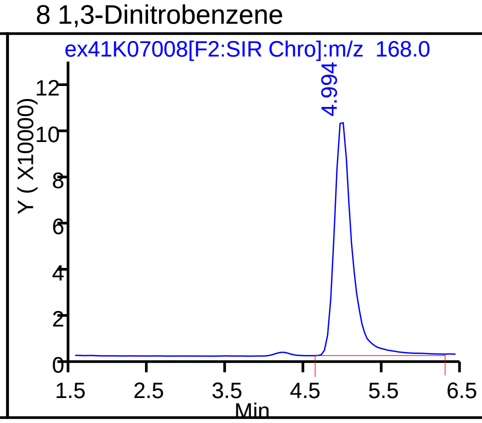
6 Tetryl



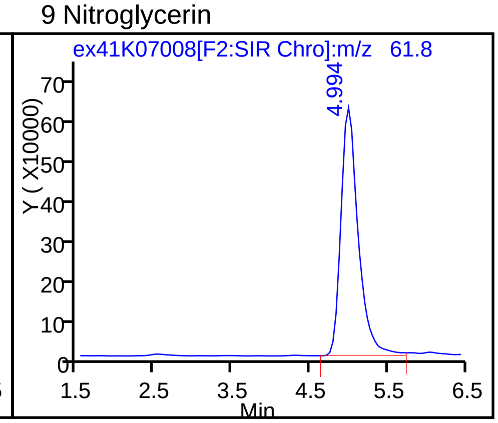
* 7 1,3-Dinitrobenzene-d4



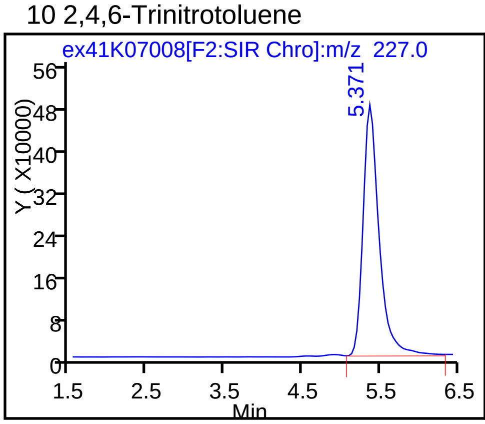
8 1,3-Dinitrobenzene



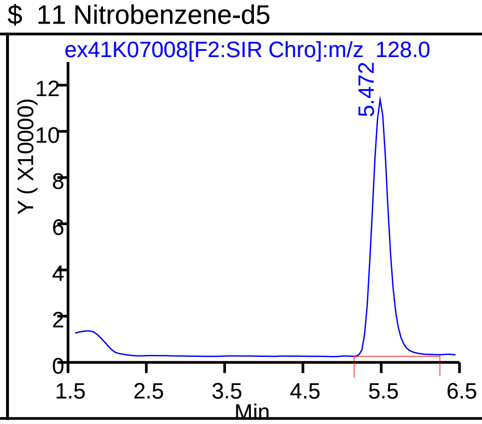
9 Nitroglycerin



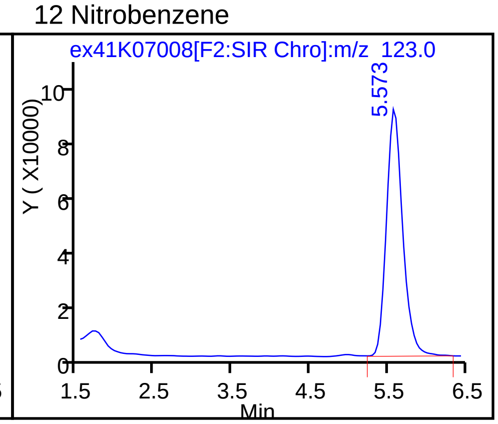
10 2,4,6-Trinitrotoluene



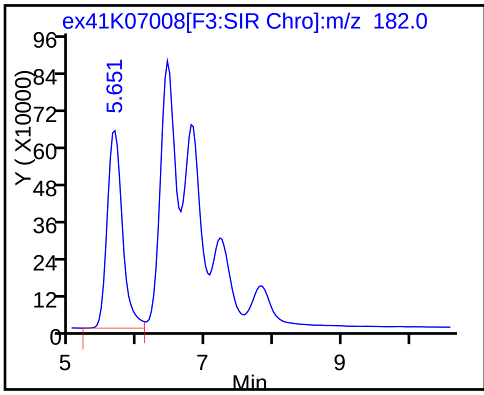
$ 11 Nitrobenzene-d5



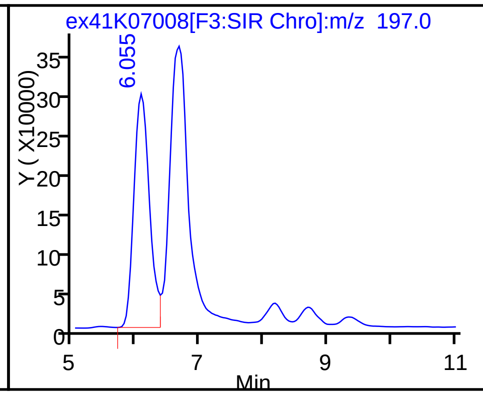
12 Nitrobenzene



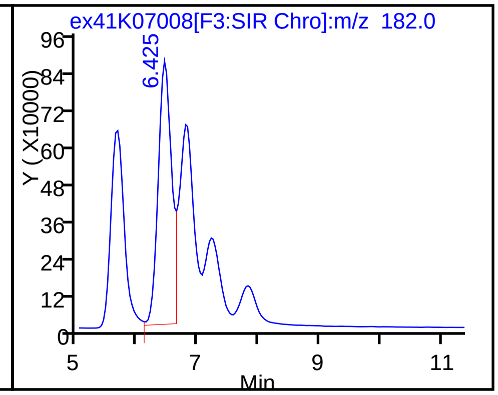
13 3,4-Dinitrotoluene



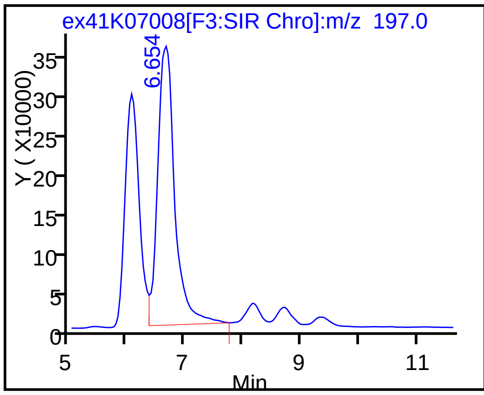
14 4-Amino-2,6-dinitrotoluene



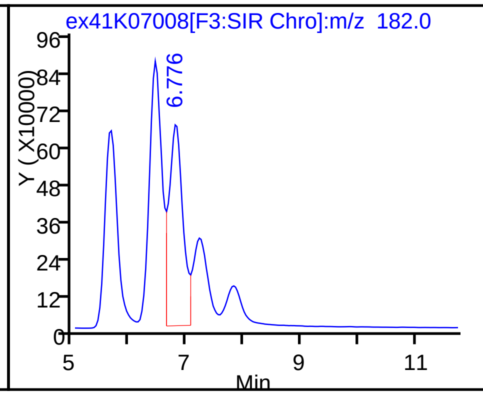
15 2,3-Dinitrotoluene



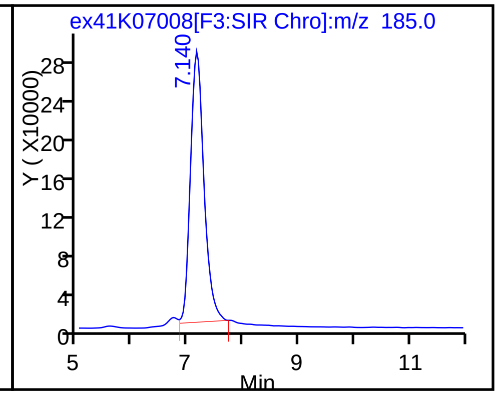
16 2-Amino-4,6-dinitrotoluene



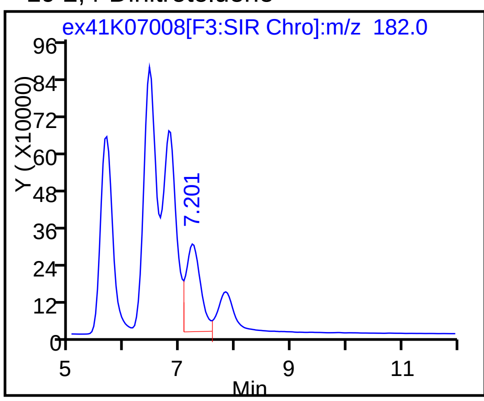
17 2,6-Dinitrotoluene



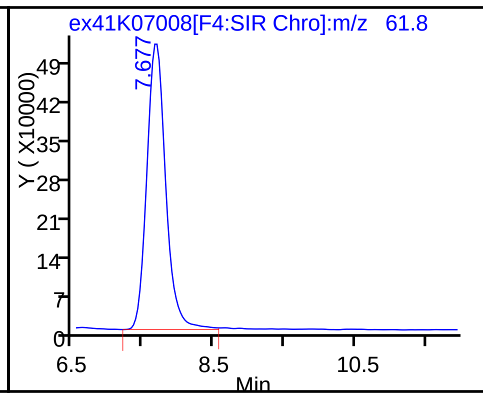
* 18 2,4-dinitrotoluene-d3



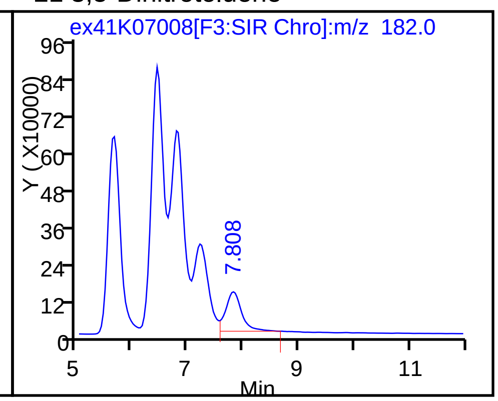
19 2,4-Dinitrotoluene



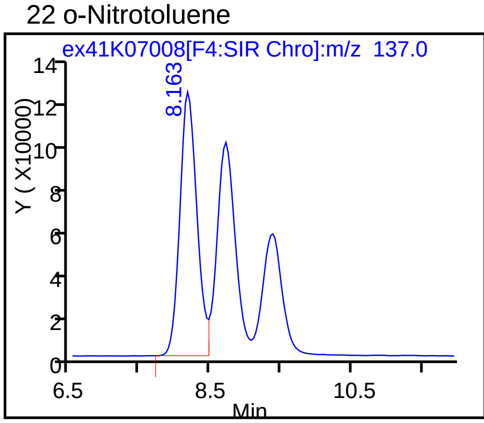
20 PETN



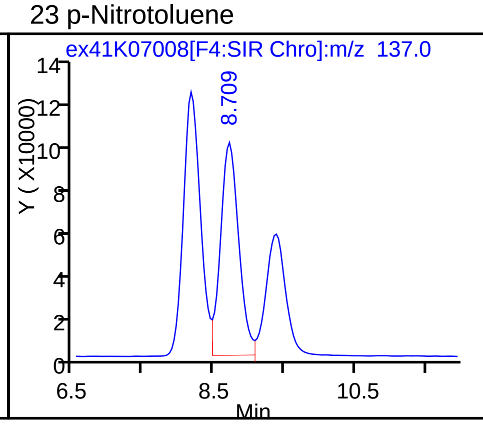
21 3,5-Dinitrotoluene



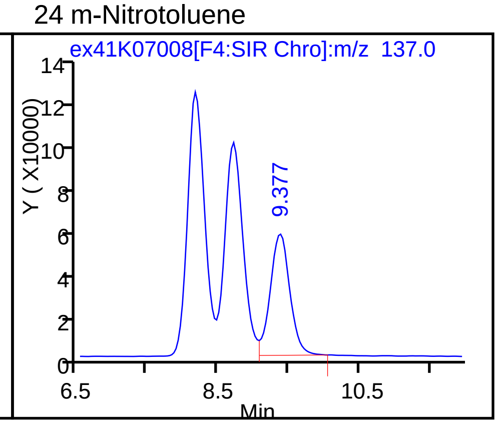
22 o-Nitrotoluene



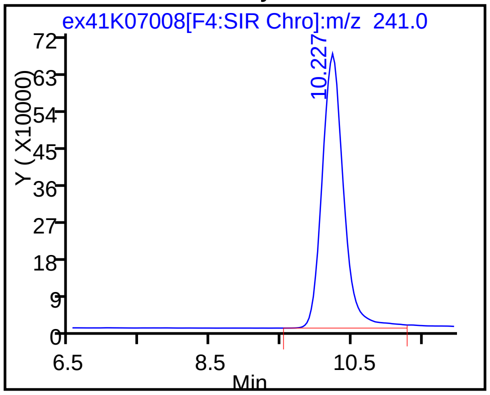
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Lims ID:	STD300	Client ID:	
Inject. Date:	07-Nov-2011 17:14:37	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	11/07/11EX7 STD300 ug/L 280-0002728-007		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	8
Lims Batch ID:	95155	Lims Sample ID:	7
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	08-Nov-2011 12:39:29	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 08-Nov-2011 07:02:15

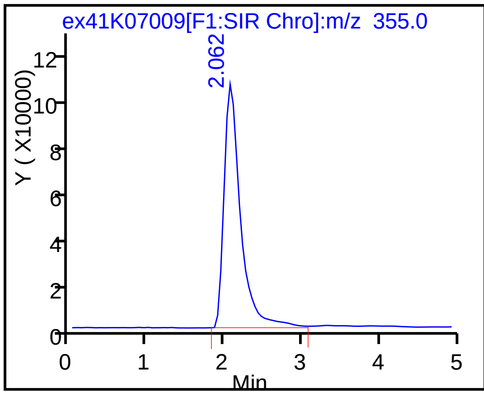
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	1546259	296.4			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		612116	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2258954	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	2609143	295.2			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	2215207	302.8			
6 Tetryl										
2	241.0	4.469	4.429	0.040	0.910	3233031	314.6			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1538401	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.954	0.040	1.016	1984915	303.8			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	12818148	305.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	9140693	293.6			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.114	2168223	294.8			
12 Nitrobenzene										
2	123.0	5.573	5.540	0.033	1.134	1711002	294.0			
13 3,4-Dinitrotoluene										
3	182.0	5.617	5.617	0.000	0.783	12964113	276.3			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.021	0.034	0.844	6902306	276.6			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.391	0.034	0.896	16986850	271.4			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.594	0.060	0.928	9415194	276.0			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.776	0.030	0.949	15759671	288.6			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4885388	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.170	0.031	1.004	7817215	296.7			
20 PETN										
4	61.8	7.677	7.616	0.061	1.000	13122218	297.2			
21 3,5-Dinitrotoluene										
3	182.0	7.808	7.778	0.030	1.089	4306598	314.5			
22 o-Nitrotoluene										
4	137.0	8.193	8.132	0.061	1.000	3265845	302.7			
23 p-Nitrotoluene										
4	137.0	8.739	8.709	0.030	1.000	2886292	308.4			
24 m-Nitrotoluene										
4	137.0	9.377	9.316	0.061	1.000	1910770	315.1			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.258	10.197	0.061	1.000	24272567	333.2			

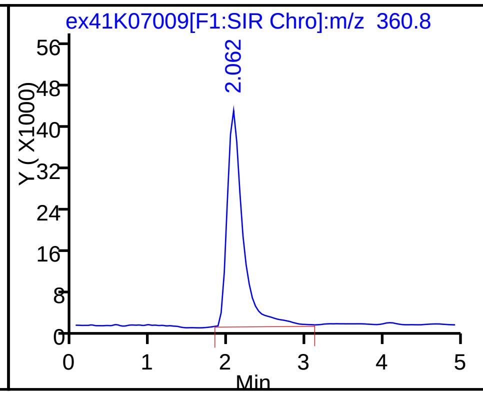
Report Date: 08-Nov-2011 12:39:30 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d

Injection Date:	07-Nov-2011 17:14:37	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95155	Lims Sample ID:	7
Operator ID:		Injection Vol:	40.00 ul

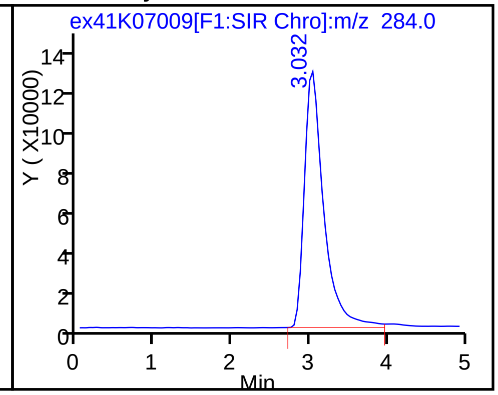
2 HMX



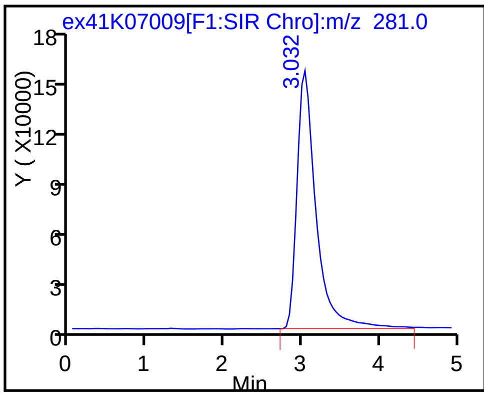
* 1 HMX-13C4



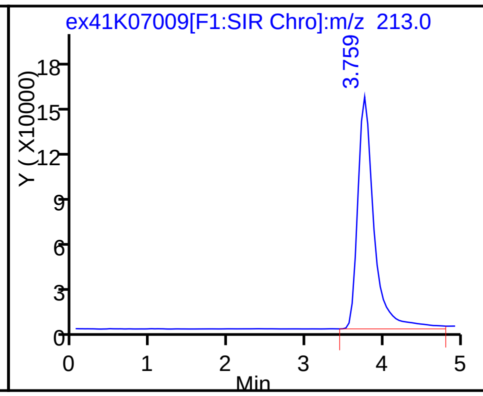
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



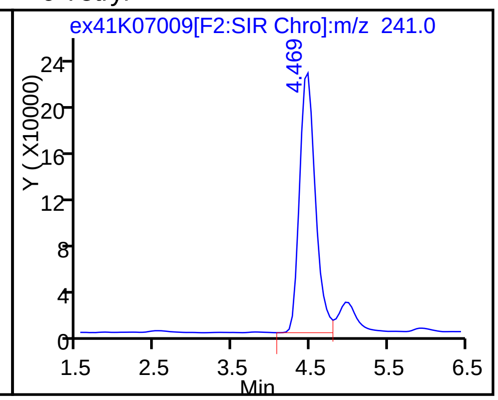
4 RDX



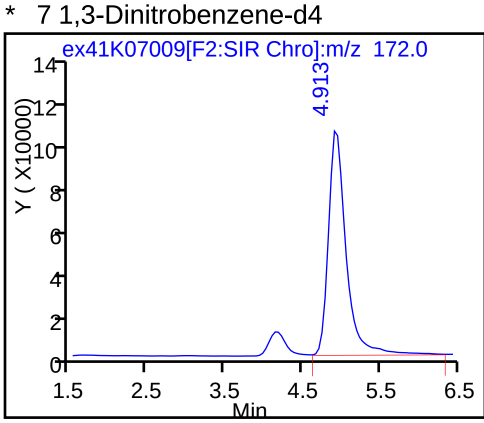
5 1,3,5-Trinitrobenzene



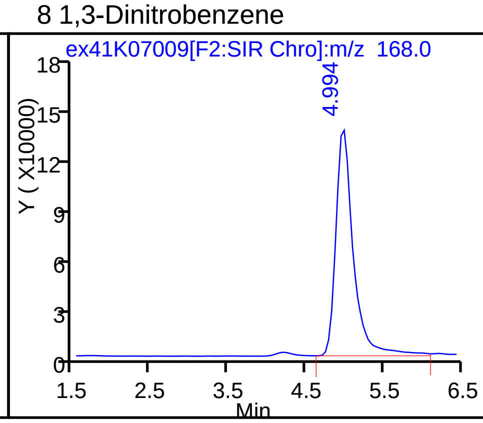
6 Tetryl



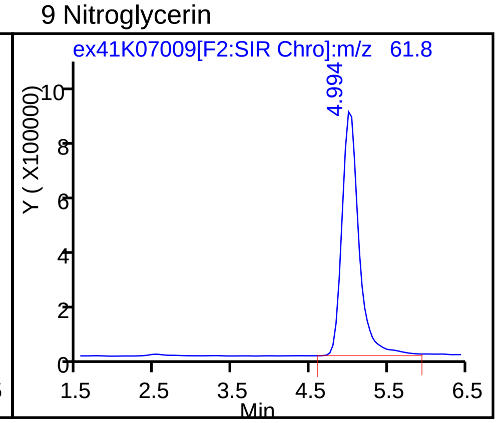
* 7 1,3-Dinitrobenzene-d4



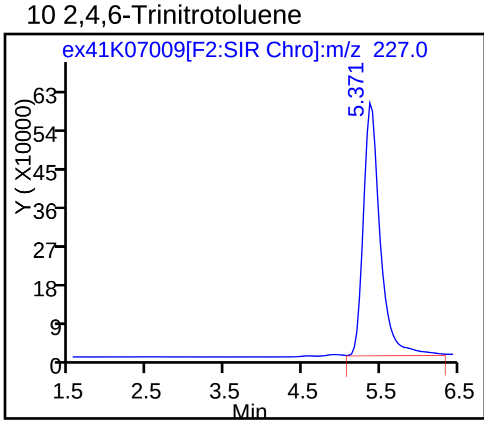
8 1,3-Dinitrobenzene



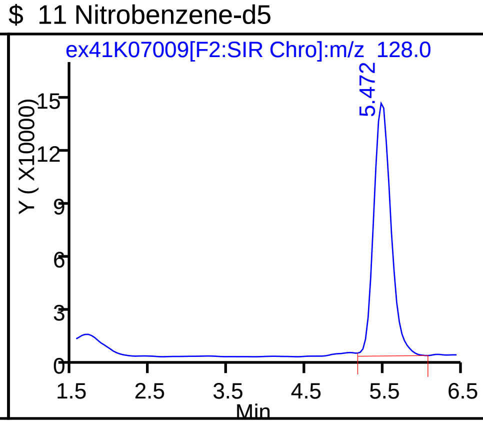
9 Nitroglycerin



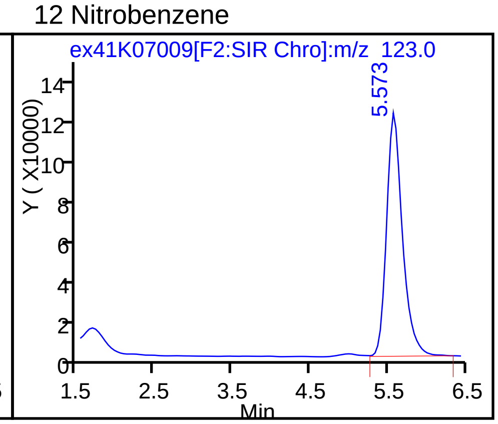
10 2,4,6-Trinitrotoluene



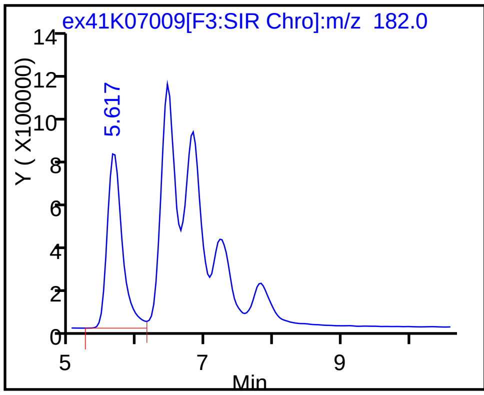
$ 11 Nitrobenzene-d5



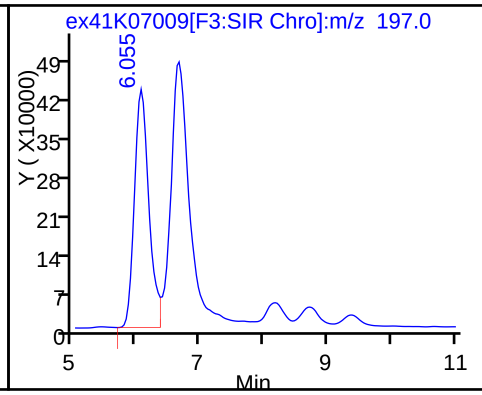
12 Nitrobenzene



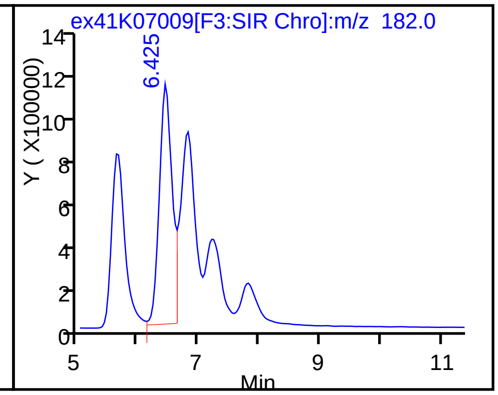
13 3,4-Dinitrotoluene



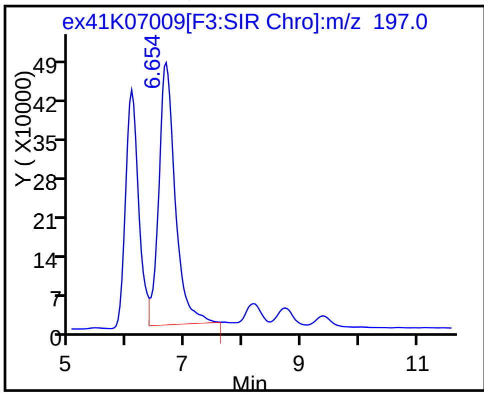
14 4-Amino-2,6-dinitrotoluene



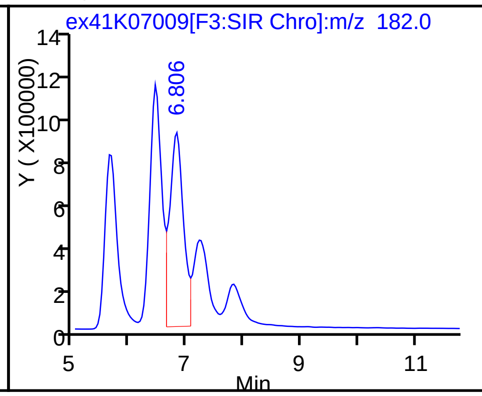
15 2,3-Dinitrotoluene



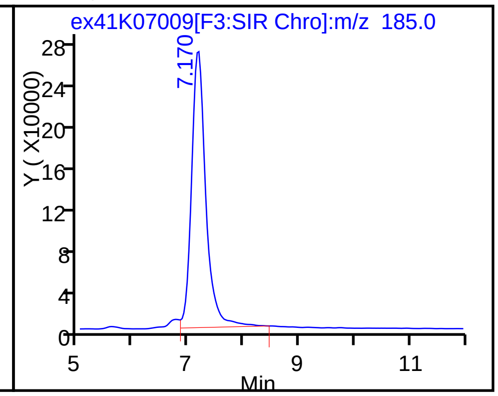
16 2-Amino-4,6-dinitrotoluene



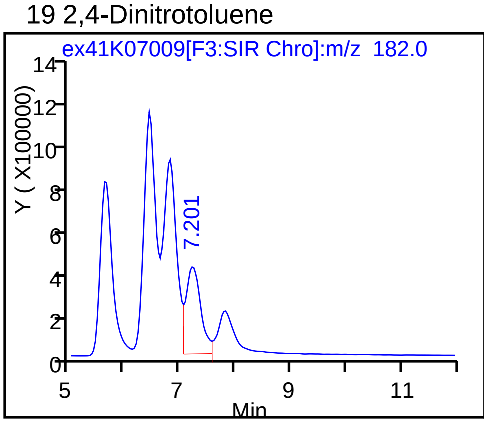
17 2,6-Dinitrotoluene



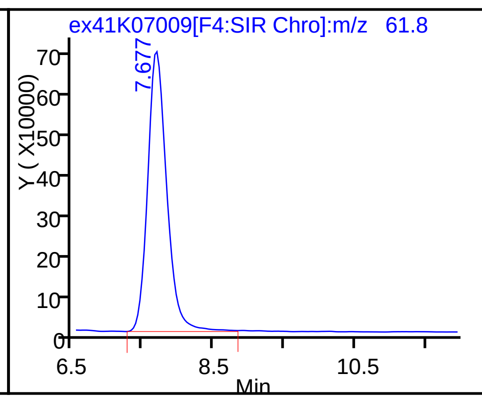
* 18 2,4-dinitrotoluene-d3



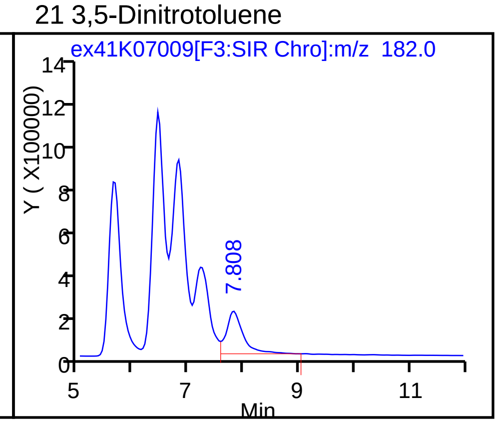
19 2,4-Dinitrotoluene



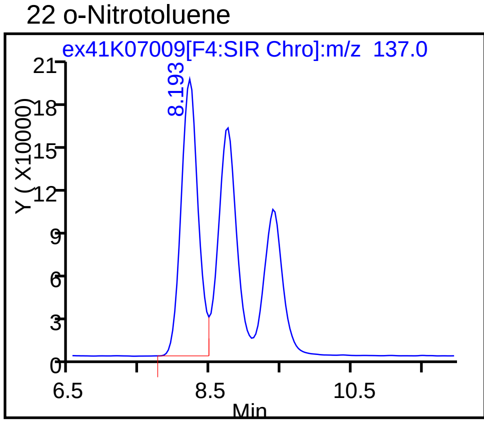
20 PETN



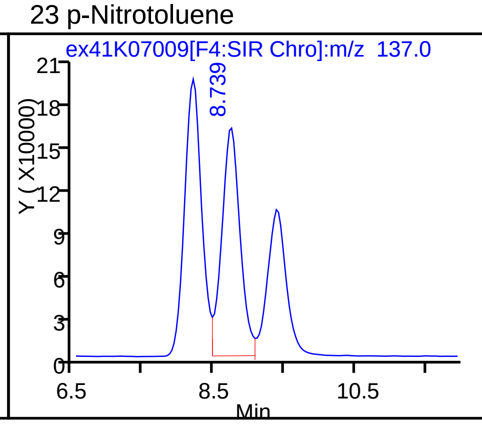
21 3,5-Dinitrotoluene



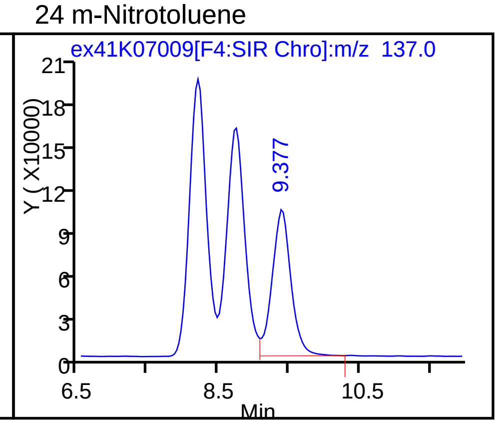
22 o-Nitrotoluene



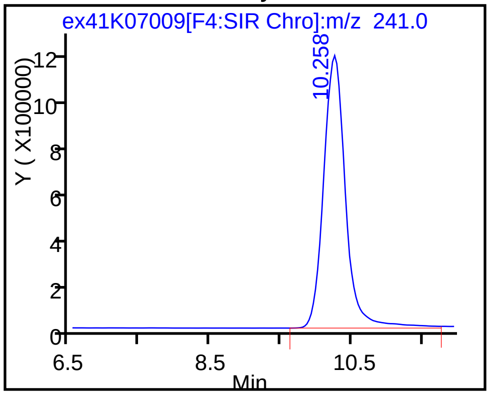
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Lab Sample ID: ICV 280-95155/10 Calibration Date: 11/07/2011 17:55

Instrument ID: LC_LCMS4 Calib Start Date: 11/07/2011 15:53

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/07/2011 17:14

Lab File ID: ex41K07012.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		1.940		90.9	100	-9.1	20.0
RDX	Lin1		0.9471		96.3	100	-3.7	20.0
1,3,5-Trinitrobenzene	Lin1		1.112		90.9	100	-9.1	20.0
Tetryl	Lin1		1.903		111	100	11.3	20.0
1,3-Dinitrobenzene	Lin1		1.182		108	100	7.9	20.0
Nitroglycerin	Lin1		6.336		90.0	100	-10.0	30.0
2,4,6-Trinitrotoluene	Lin1		4.874		93.1	100	-6.9	20.0
Nitrobenzene	Lin1		0.9680		98.3	100	-1.7	20.0
3,4-Dinitrotoluene	Lin1		2.269		94.6	100	-5.5	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.283		100	100	0.3	20.0
2,3-Dinitrotoluene	Ave	3.203	3.114		97.2	100	-2.8	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.775		102	100	2.3	20.0
2,6-Dinitrotoluene	Lin1		2.725		97.7	100	-2.3	20.0
2,4-Dinitrotoluene	Lin1		1.355		102	100	1.5	20.0
PETN	Qua1		2.454		88.4	100	-11.6	30.0
3,5-Dinitrotoluene	Lin1		0.6566		94.6	100	-5.4	30.0
2-Nitrotoluene	Lin1		0.5649		103	100	3.1	20.0
4-Nitrotoluene	Lin1		0.4885		103	100	2.7	20.0
3-Nitrotoluene	Lin1		0.3002		97.7	100	-2.3	20.0
2,4,6-Trinitro-3-xylene	Ave	12.25	10.09		82.3	100	-17.7	30.0
Nitrobenzene-d5	Lin1		1.189		94.0	100	-6.0	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07012.d		
Lims ID:	ICV	Client ID:	
Inject. Date:	07-Nov-2011 17:55:20	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	11/07/11ICV ICV 280-0002728-010		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	9
Lims Batch ID:	95155	Lims Sample ID:	10
Sublist:			
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	08-Nov-2011 12:20:54	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

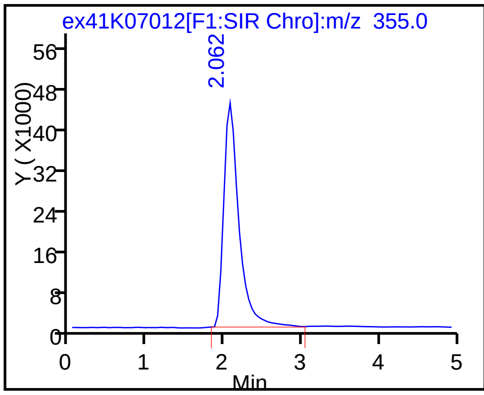
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	615252	90.9			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		792969	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	2.991	0.000		2749211	250.0			
4 RDX										
1	281.0	2.991	3.032	-0.041	1.000	1041553	96.3			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	703270	90.9			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	1203181	111.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1635598	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.954	4.954	0.000	1.008	747047	107.9			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	4005546	90.0			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.337	0.034	1.093	3081332	93.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.114	751929	94.0			
12 Nitrobenzene										
2	123.0	5.573	5.539	0.034	1.134	611956	98.3			
13 3,4-Dinitrotoluene										
3	182.0	5.617	5.617	0.000	0.787	4182859	94.6			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.021	6.021	0.000	0.843	2363830	100.3			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.391	0.034	0.900	5734690	97.2			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.624	0.000	0.928	3268955	102.3			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.745	0.031	0.949	5018226	97.7			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.110	0.030		4604530	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.170	0.031	1.009	2494887	101.5			
20 PETN										
4	61.8	7.646	7.616	0.030	1.000	4519227	88.4			
21 3,5-Dinitrotoluene										
3	182.0	7.808	7.778	0.030	1.094	1209280	94.6			
22 o-Nitrotoluene										
4	137.0	8.163	8.162	0.001	1.000	1040448	103.1			
23 p-Nitrotoluene										
4	137.0	8.709	8.679	0.030	1.000	899637	102.7			
24 m-Nitrotoluene										
4	137.0	9.347	9.347	0.000	1.000	552919	97.7			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.197	10.197	0.000	1.000	6377205	82.3			

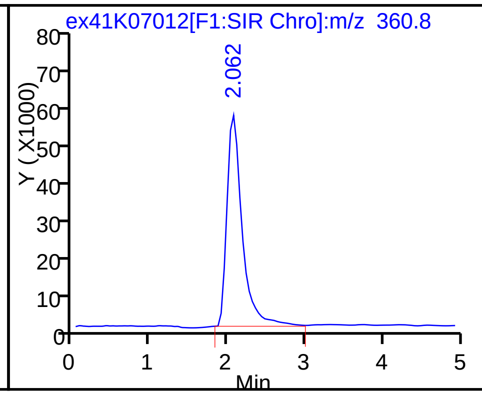
Report Date: 08-Nov-2011 12:20:57 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07012.d

Injection Date:	07-Nov-2011 17:55:20	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95155	Lims Sample ID:	10
Operator ID:		Injection Vol:	40.00 ul

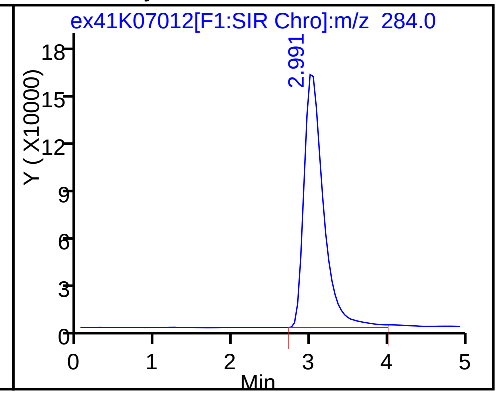
2 HMX



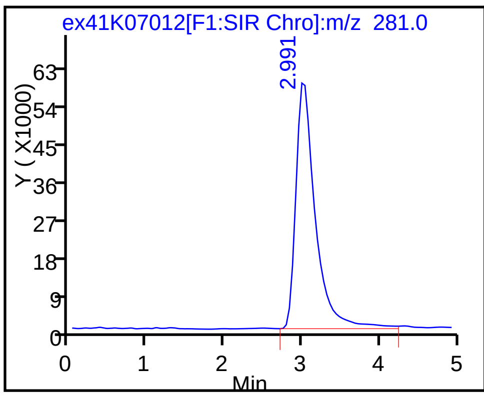
* 1 HMX-13C4



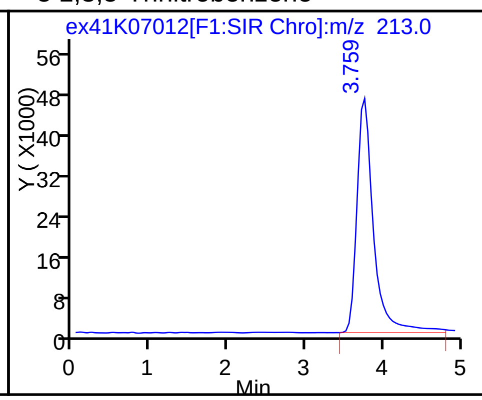
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



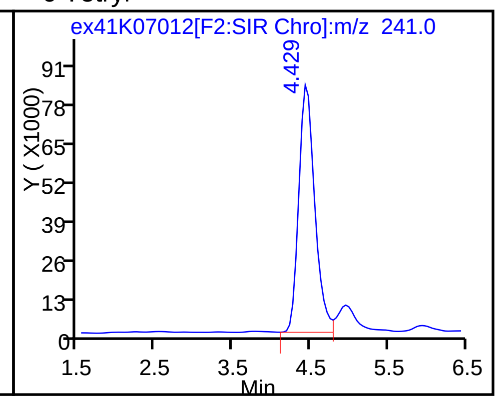
4 RDX



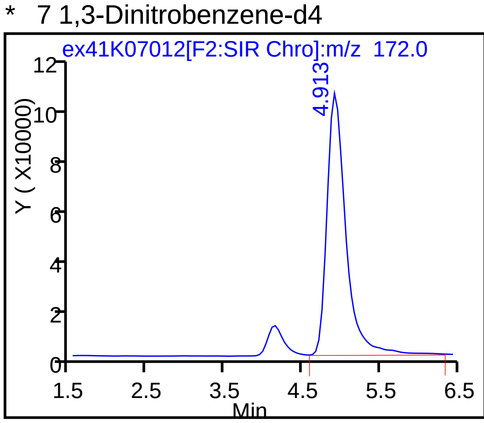
5 1,3,5-Trinitrobenzene



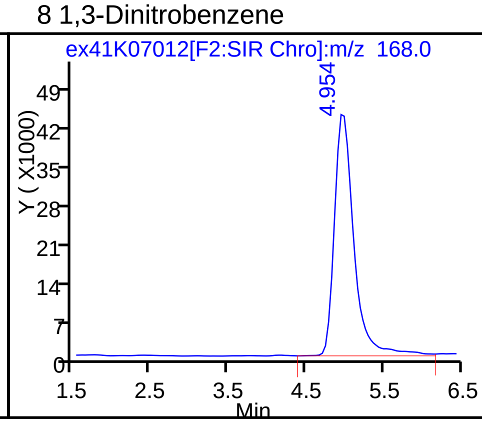
6 Tetryl



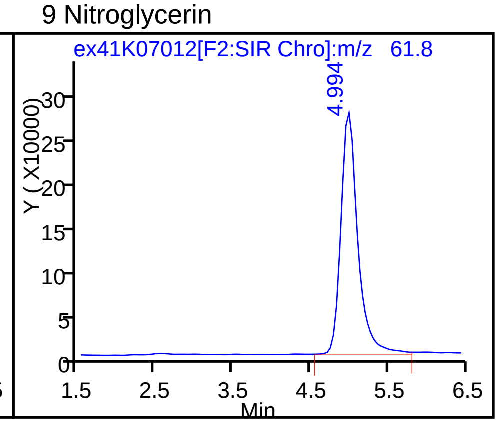
* 7 1,3-Dinitrobenzene-d4



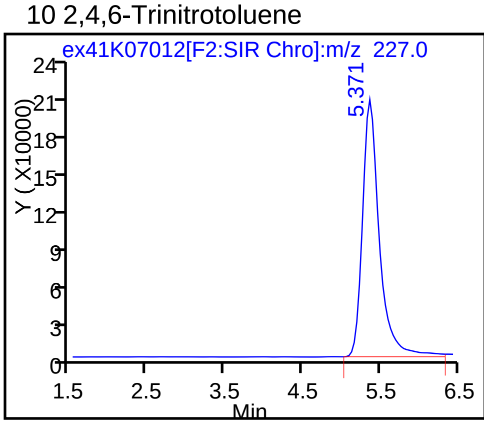
8 1,3-Dinitrobenzene



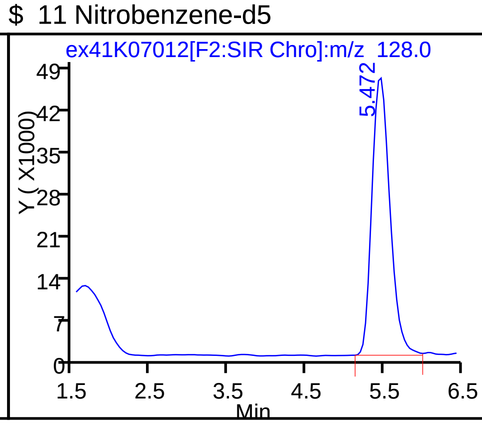
9 Nitroglycerin



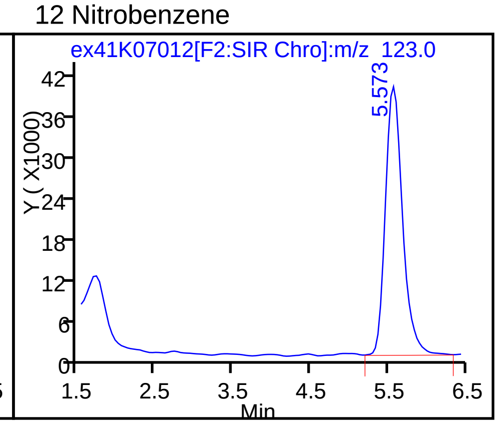
10 2,4,6-Trinitrotoluene



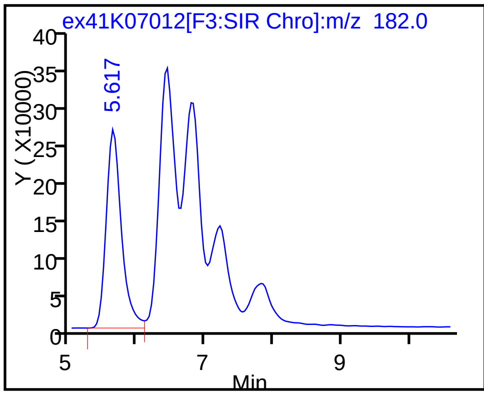
$ 11 Nitrobenzene-d5



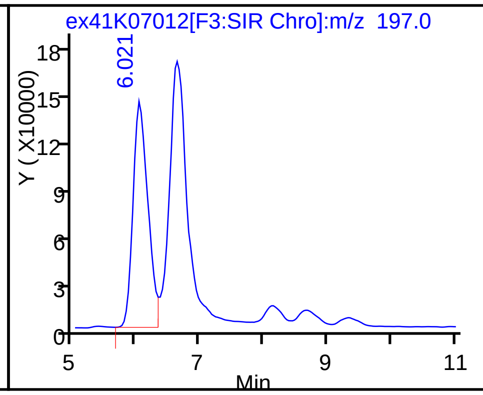
12 Nitrobenzene



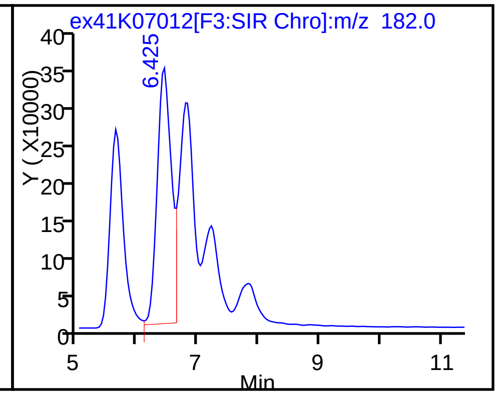
13 3,4-Dinitrotoluene



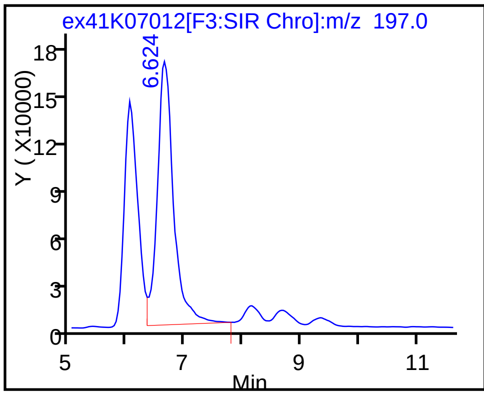
14 4-Amino-2,6-dinitrotoluene



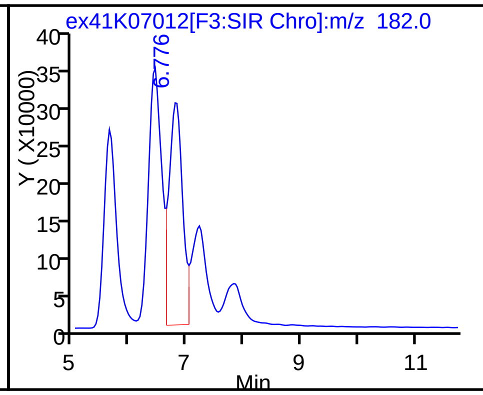
15 2,3-Dinitrotoluene



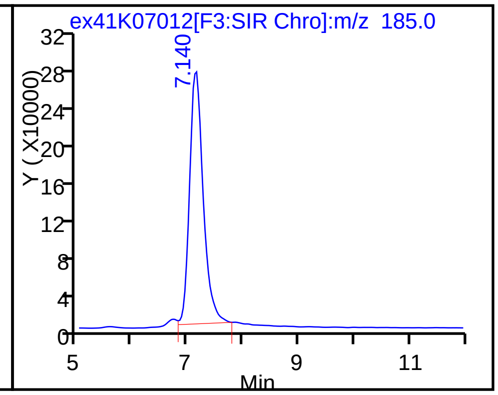
16 2-Amino-4,6-dinitrotoluene



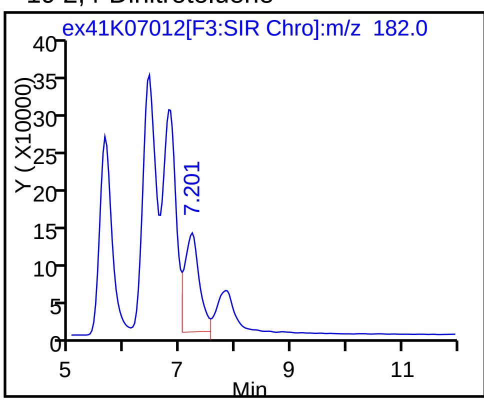
17 2,6-Dinitrotoluene



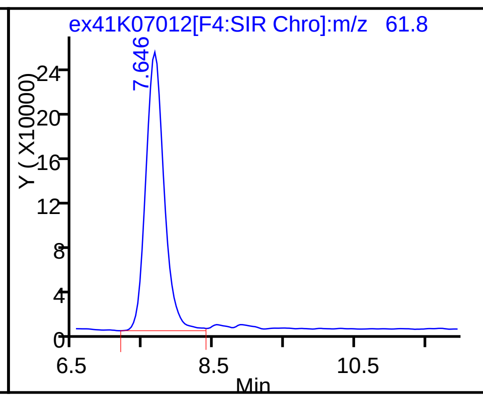
* 18 2,4-dinitrotoluene-d3



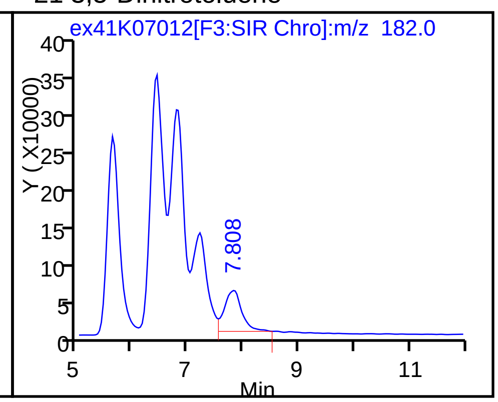
19 2,4-Dinitrotoluene



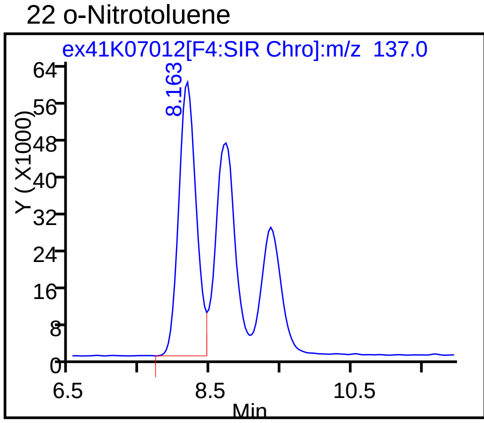
20 PETN



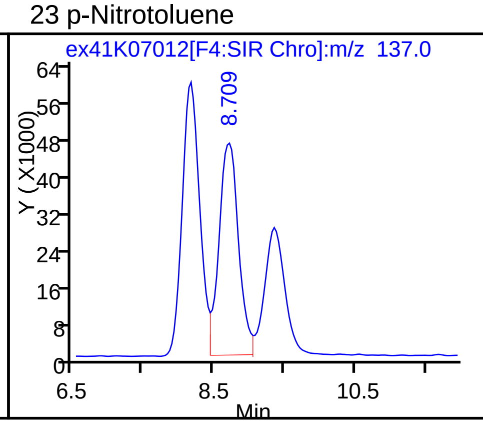
21 3,5-Dinitrotoluene



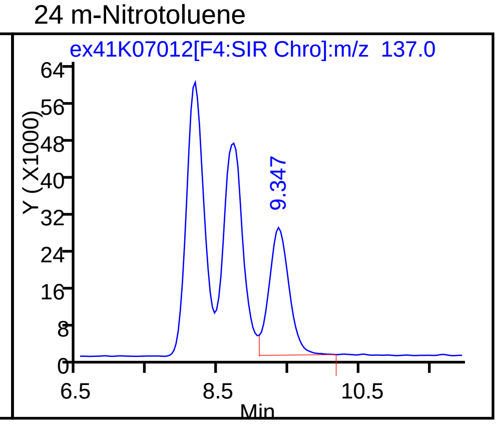
22 o-Nitrotoluene



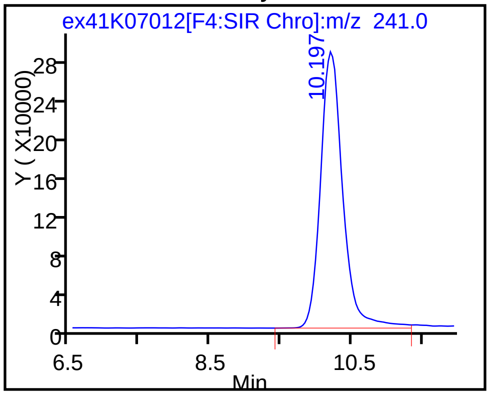
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Lab Sample ID: CCV 280-95320/130   Calibration Date: 11/08/2011 21:55

Instrument ID: LC_LCMS4   Calib Start Date: 11/07/2011 15:53

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 11/07/2011 17:14

Lab File ID: ex41K07134.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.307		54.0	50.0	8.0	20.0
RDX	Lin1		1.061		52.8	49.4	7.0	20.0
1,3,5-Trinitrobenzene	Lin1		1.014		41.8	50.1	-16.5	20.0
Tetryl	Lin1		1.368		41.0	49.7	-17.5	20.0
1,3-Dinitrobenzene	Lin1		1.165		54.2	50.7	6.9	20.0
Nitroglycerin	Lin1		7.201		51.3	50.0	2.6	30.0
2,4,6-Trinitrotoluene	Lin1		5.173		49.4	50.1	-1.3	20.0
Nitrobenzene	Lin1		0.9505		47.8	50.0	-4.3	20.0
3,4-Dinitrotoluene	Lin1		2.776		57.8	50.0	15.6	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.380		53.1	49.4	7.6	20.0
2,3-Dinitrotoluene	Ave	3.203	3.787		59.1	50.0	18.2	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.905		55.4	50.1	10.7	20.0
2,6-Dinitrotoluene	Lin1		3.022		54.4	50.1	8.7	20.0
2,4-Dinitrotoluene	Lin1		1.375		52.5	50.2	4.7	20.0
PETN	Qua1		2.866		49.6	49.9	-0.6	30.0
3,5-Dinitrotoluene	Lin1		0.7462		54.4	50.0	8.8	30.0
2-Nitrotoluene	Lin1		0.5964		54.5	49.6	10.0	20.0
4-Nitrotoluene	Lin1		0.5035		53.1	49.8	6.7	20.0
3-Nitrotoluene	Lin1		0.3224		52.4	49.4	6.1	20.0
2,4,6-Trinitro-3-xylene	Ave	12.25	10.60		43.2	50.0	-13.5	30.0
Nitrobenzene-d5	Lin1		1.250		47.9	50.0	-4.2	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07134.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	08-Nov-2011 21:55:03	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/08/11EX4 CCV 50 ug/L 280-0002728-130		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	95320	Lims Sample ID:	130
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:48	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

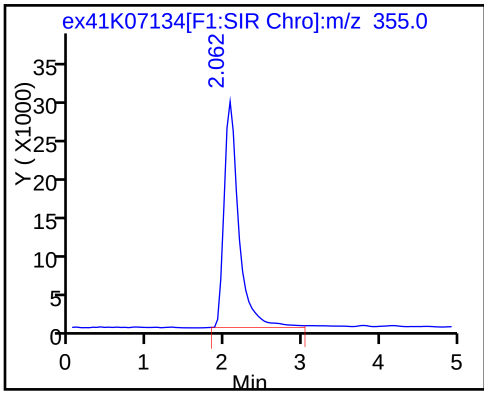
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	392834	54.0			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		851512	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2903580	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	607855	52.8			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	367632	41.8			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	492378	41.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1874050	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	427733	54.2			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	2608165	51.3			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	1875552	49.4			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	452987	47.9			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.125	343887	47.8			
13 3,4-Dinitrotoluene										
3	182.0	5.651	5.651	0.000	0.788	2771390	57.8			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.844	1359675	53.1			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.459	6.459	0.000	0.901	3779182	59.1			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.928	1902997	55.4			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.949	3019473	54.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.170	0.000		4990178	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.231	0.000	1.008	1376774	52.5			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	2854701	49.6			
21 3,5-Dinitrotoluene										
3	182.0	7.839	7.839	0.000	1.093	744744	54.4			
22 o-Nitrotoluene										
4	137.0	8.223	8.223	0.000	1.000	589817	54.5			
23 p-Nitrotoluene										
4	137.0	8.739	8.739	0.000	1.000	499967	53.1			
24 m-Nitrotoluene										
4	137.0	9.408	9.408	0.000	1.000	317916	52.4			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.288	10.288	0.000	1.000	3837429	43.2			

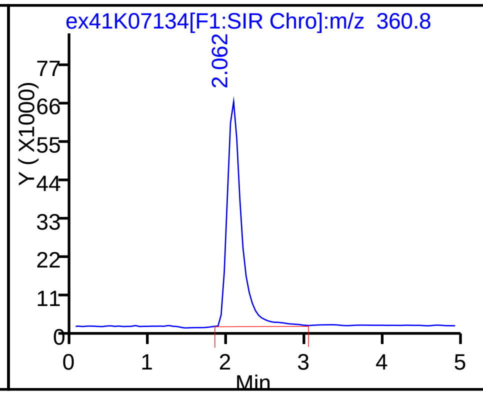
Report Date: 09-Nov-2011 06:55:48 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07134.d

Injection Date:	08-Nov-2011 21:55:03	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	130
Operator ID:		Injection Vol:	40.00 ul

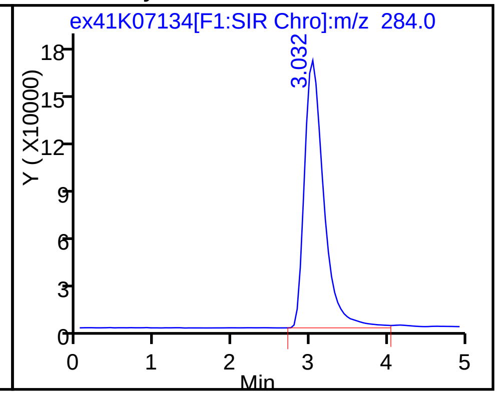
2 HMX



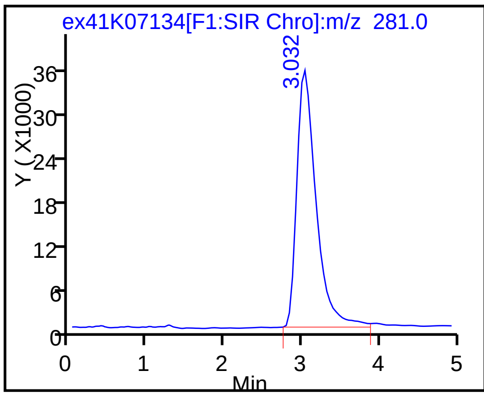
* 1 HMX-13C4



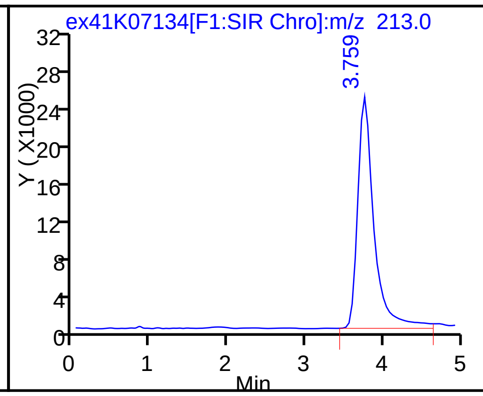
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



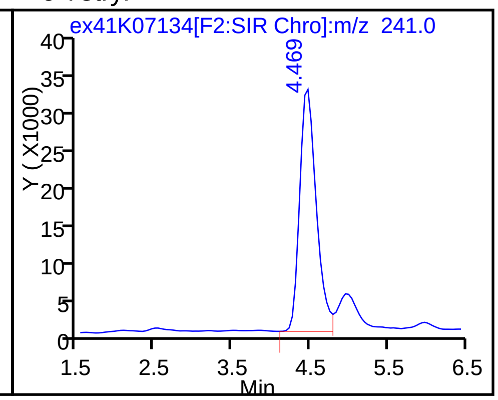
4 RDX



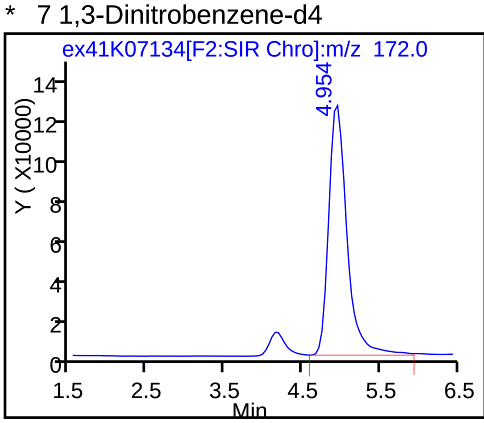
5 1,3,5-Trinitrobenzene



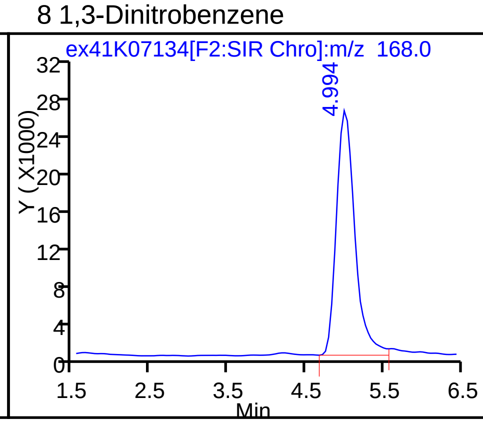
6 Tetryl



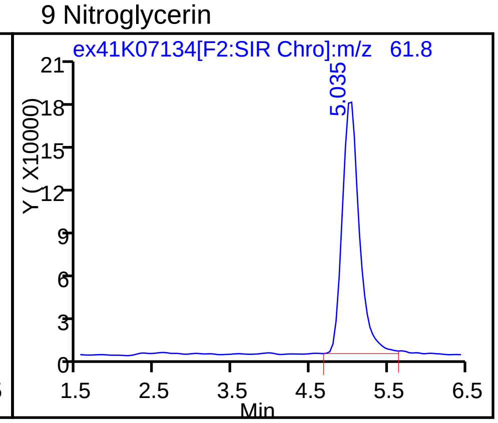
* 7 1,3-Dinitrobenzene-d4



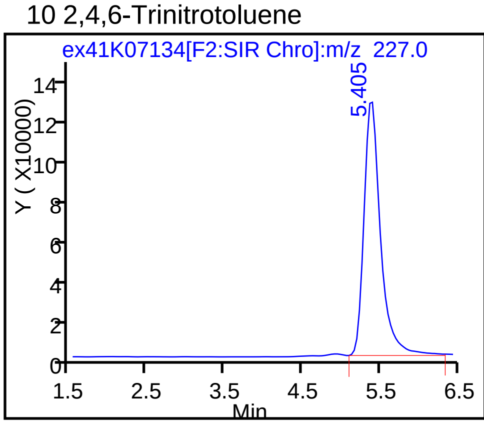
8 1,3-Dinitrobenzene



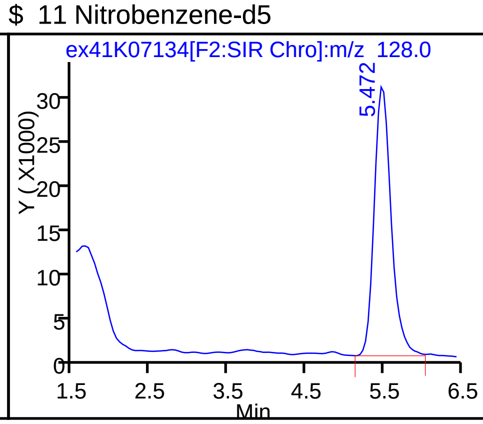
9 Nitroglycerin



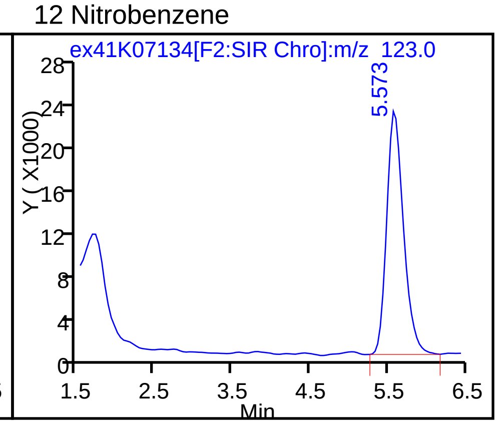
10 2,4,6-Trinitrotoluene



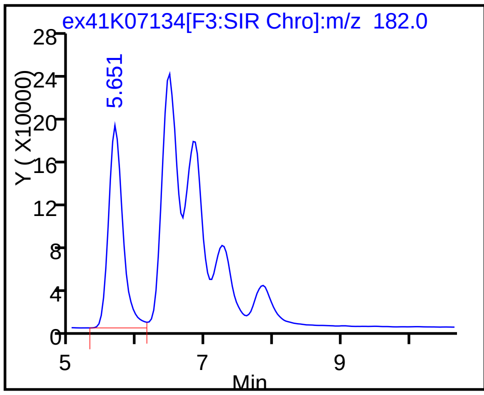
$ 11 Nitrobenzene-d5



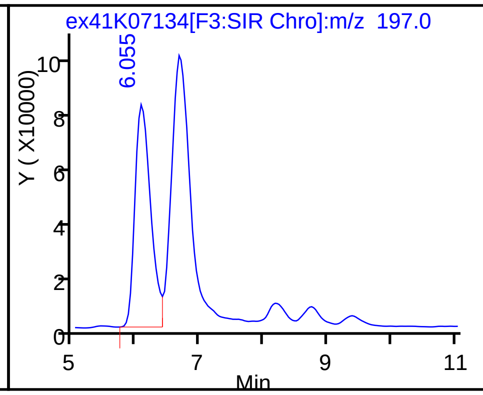
12 Nitrobenzene



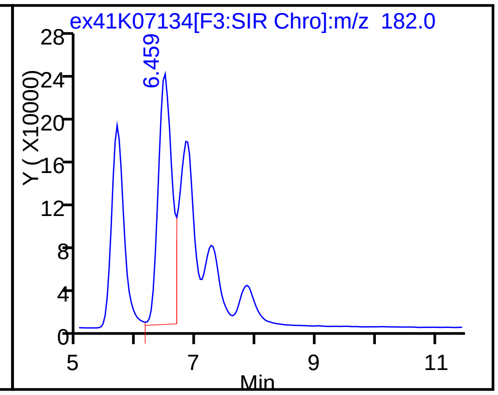
13 3,4-Dinitrotoluene



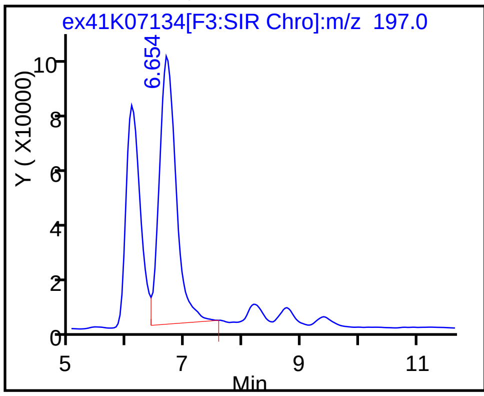
14 4-Amino-2,6-dinitrotoluene



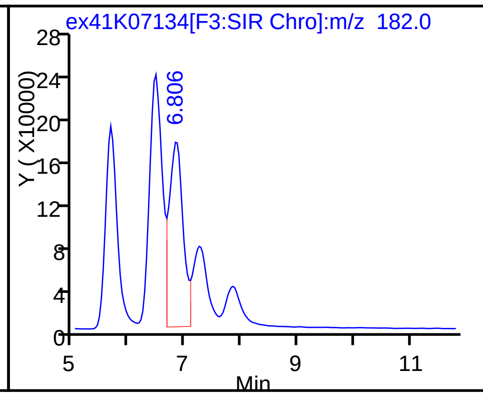
15 2,3-Dinitrotoluene



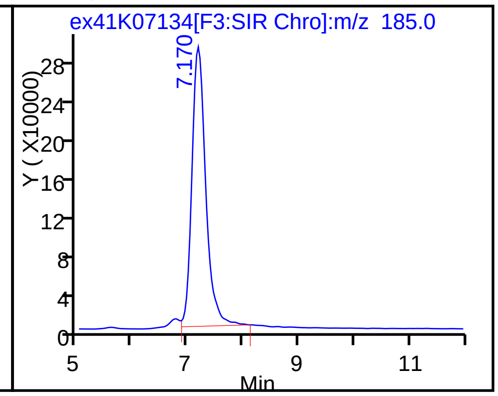
16 2-Amino-4,6-dinitrotoluene



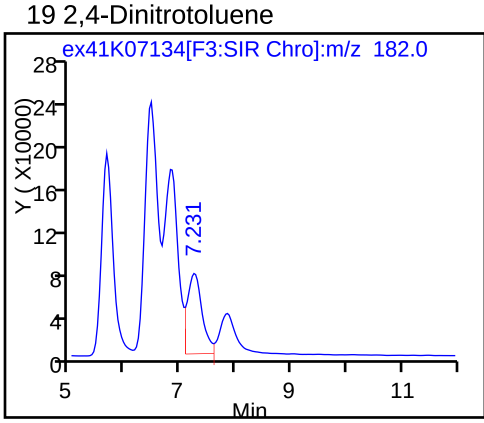
17 2,6-Dinitrotoluene



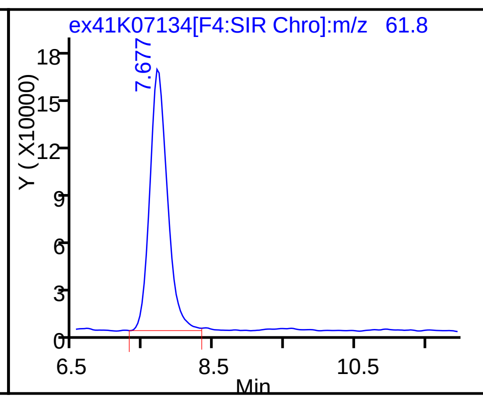
* 18 2,4-dinitrotoluene-d3



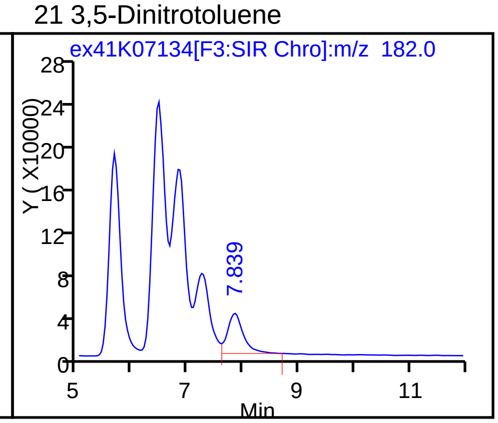
19 2,4-Dinitrotoluene



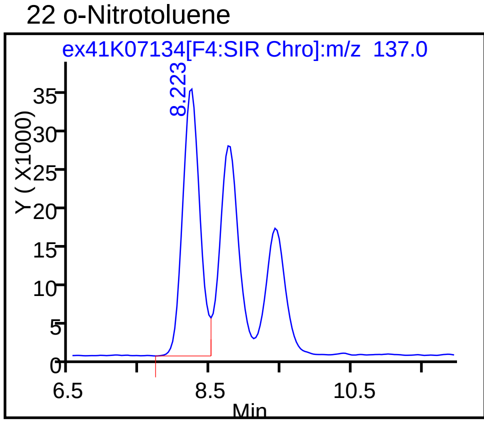
20 PETN



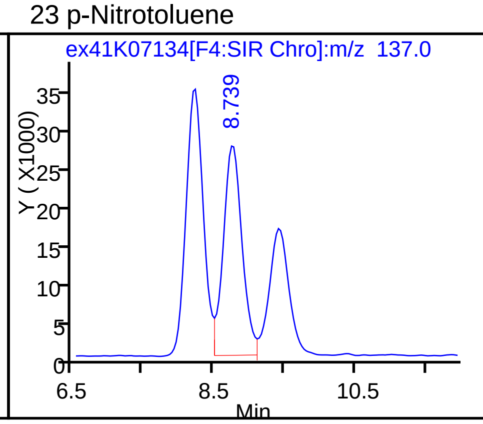
21 3,5-Dinitrotoluene



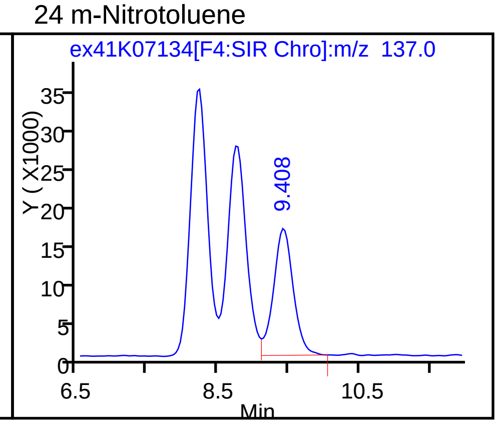
22 o-Nitrotoluene



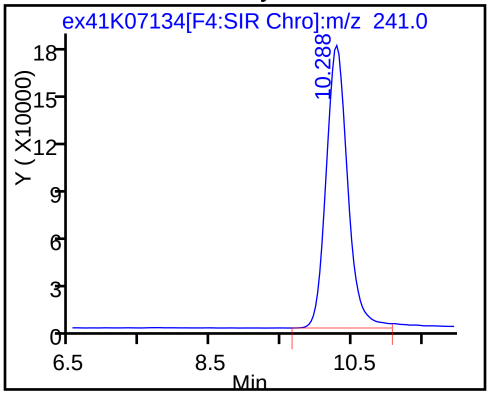
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Lab Sample ID: CCV 280-95320/141 Calibration Date: 11/09/2011 00:25

Instrument ID: LC_LCMS4 Calib Start Date: 11/07/2011 15:53

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/07/2011 17:14

Lab File ID: ex41K07145.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.119		99.3	100	-0.7	20.0
RDX	Lin1		1.058		106	98.7	7.6	20.0
1,3,5-Trinitrobenzene	Lin1		1.118		91.4	100	-8.7	20.0
Tetryl	Lin1		1.502		87.7	99.4	-11.8	20.0
1,3-Dinitrobenzene	Lin1		1.136		105	101	3.7	20.0
Nitroglycerin	Lin1		7.069		100	100	0.3	30.0
2,4,6-Trinitrotoluene	Lin1		4.842		92.5	100	-7.6	20.0
Nitrobenzene	Lin1		0.9199		93.3	99.9	-6.6	20.0
3,4-Dinitrotoluene	Lin1		2.669		111	100	11.2	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.289		99.4	98.7	0.7	20.0
2,3-Dinitrotoluene	Ave	3.203	3.465		108	100	8.2	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.807		104	100	4.2	20.0
2,6-Dinitrotoluene	Lin1		2.925		105	100	4.9	20.0
2,4-Dinitrotoluene	Lin1		1.397		105	100	4.7	20.0
PETN	Qua1		2.684		97.3	99.8	-2.5	30.0
3,5-Dinitrotoluene	Lin1		0.6355		91.6	100	-8.4	30.0
2-Nitrotoluene	Lin1		0.5582		101	99.1	1.9	20.0
4-Nitrotoluene	Lin1		0.4678		97.9	99.5	-1.6	20.0
3-Nitrotoluene	Lin1		0.3073		98.7	98.8	-0.1	20.0
2,4,6-Trinitro-3-xylene	Ave	12.25	10.57		86.3	100	-13.7	30.0
Nitrobenzene-d5	Lin1		1.183		93.5	100	-6.5	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07145.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	09-Nov-2011 00:25:13	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/08/11EX5 CCV 100 ug/L 280-0002728-141		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	95320	Lims Sample ID:	141
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:57	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 09-Nov-2011 06:42:27

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	722448	99.3			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		852387	250.0			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2955589	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	1234696	106.2			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	798667	91.4			
	6 Tetryl									
2	241.0	4.469	4.469	0.000	0.902	1065351	87.7			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		1846378	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	4.994	4.994	0.000	1.008	821965	105.2			
	9 Nitroglycerin									
2	61.8	5.035	5.035	0.000	1.016	5044884	100.3			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.405	5.405	0.000	1.091	3458798	92.5			
$	11 Nitrobenzene-d5									M
2	128.0	5.506	5.506	0.000	1.111	844249	93.5			M
	12 Nitrobenzene									
2	123.0	5.607	5.607	0.000	1.132	655866	93.3			
	13 3,4-Dinitrotoluene									
3	182.0	5.684	5.684	0.000	0.789	5256155	111.2			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.122	6.122	0.000	0.850	2504498	99.4			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.492	6.492	0.000	0.902	6818600	108.1			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.932	3560918	104.3			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.949	5762998	105.0			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4920877	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.008	2758187	105.0			
20 PETN										
4	61.8	7.737	7.737	0.000	1.000	5271936	97.3			
21 3,5-Dinitrotoluene										
3	182.0	7.869	7.869	0.000	1.093	1250828	91.6			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	1088805	101.0			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	916211	97.9			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	597532	98.7			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.349	10.349	0.000	1.000	7540978	86.3			

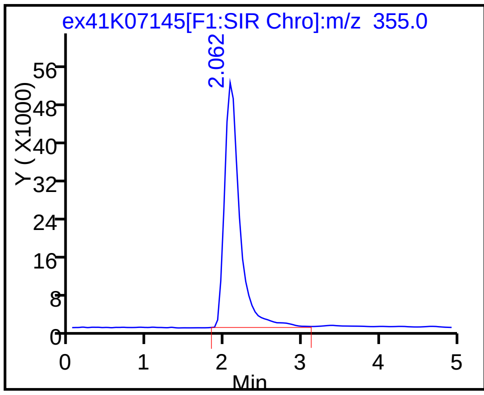
QC Flag Legend

Review Flags
M - Manually Integrated

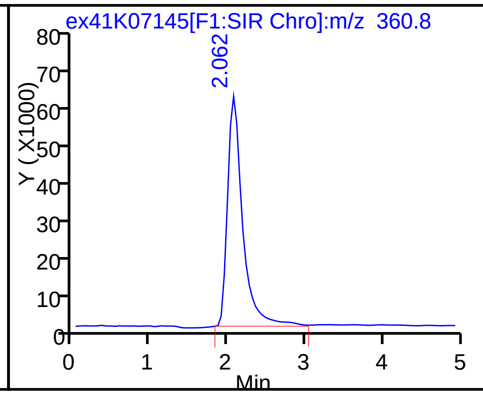
Report Date: 09-Nov-2011 06:55:57 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07145.d

Injection Date:	09-Nov-2011 00:25:13	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	141
Operator ID:		Injection Vol:	40.00 ul

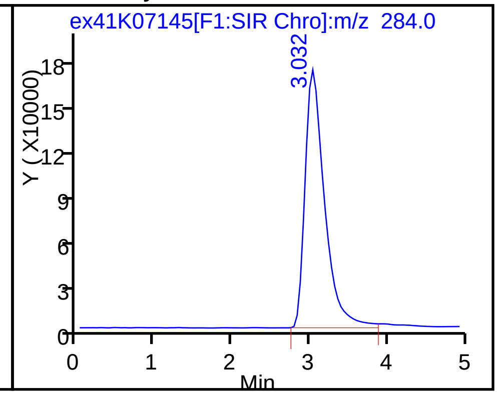
2 HMX



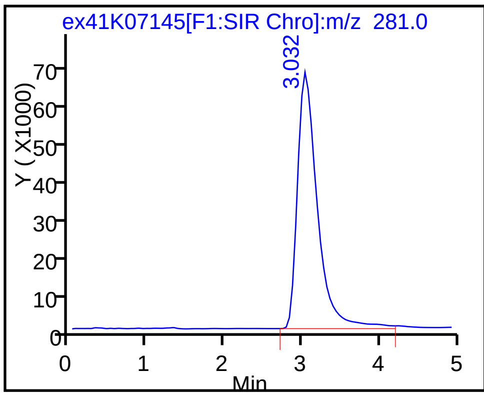
* 1 HMX-13C4



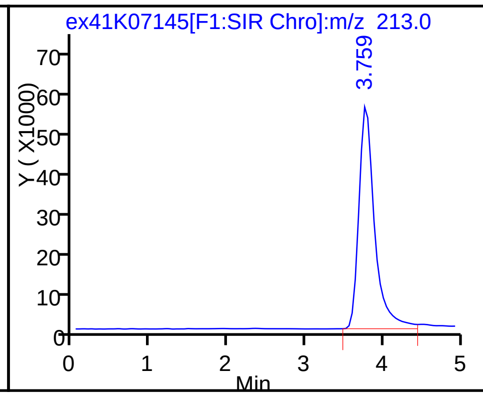
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



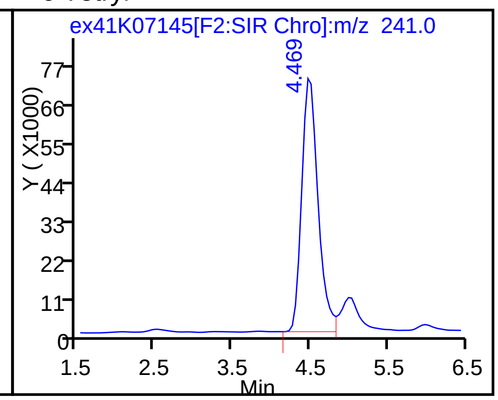
4 RDX



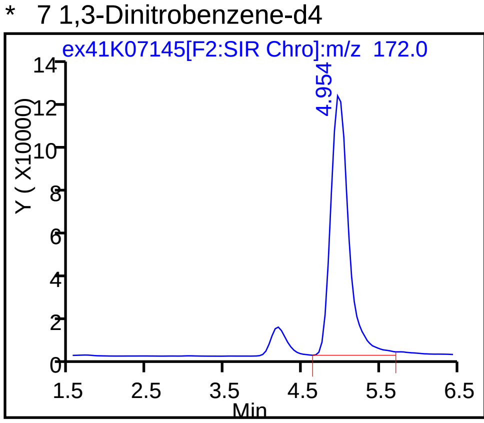
5 1,3,5-Trinitrobenzene



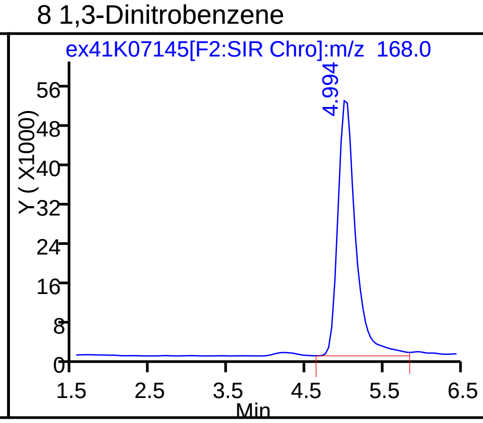
6 Tetryl



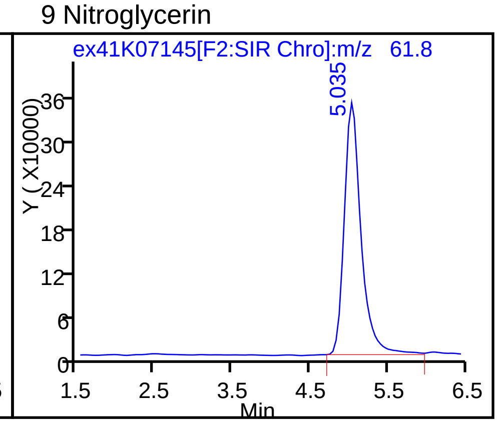
* 7 1,3-Dinitrobenzene-d4



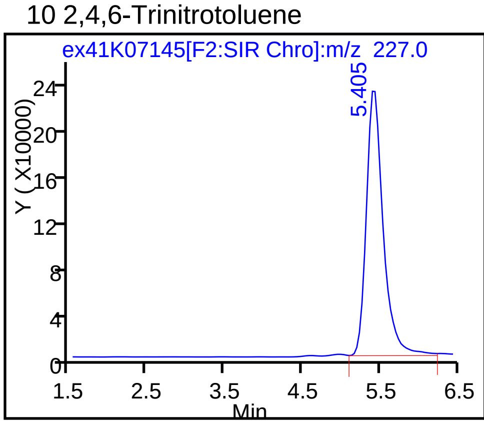
8 1,3-Dinitrobenzene



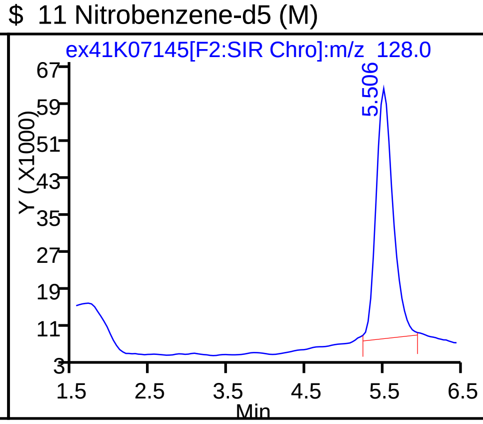
9 Nitroglycerin



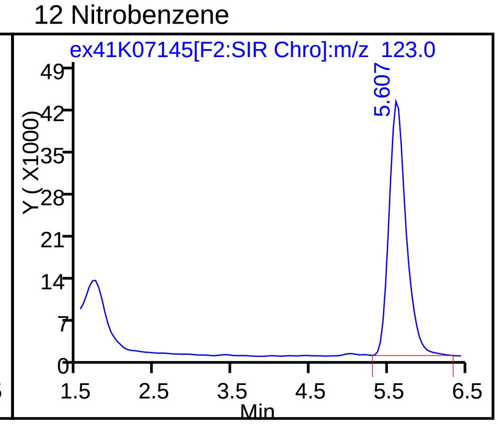
10 2,4,6-Trinitrotoluene



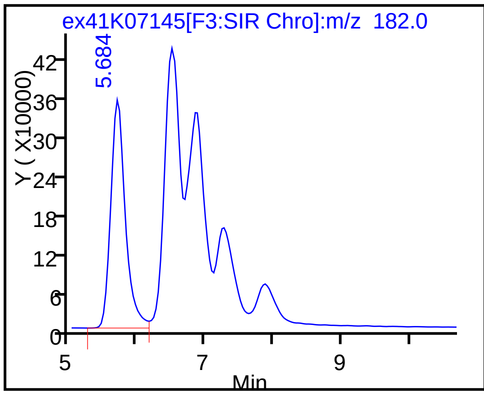
$ 11 Nitrobenzene-d5 (M)



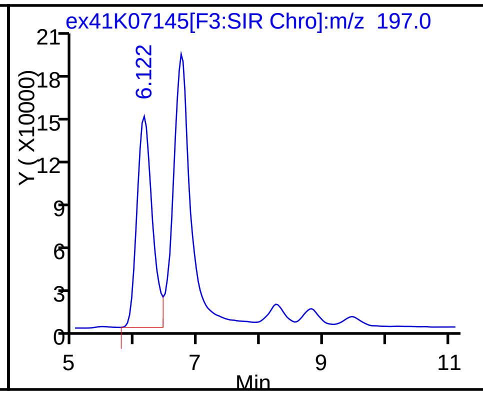
12 Nitrobenzene



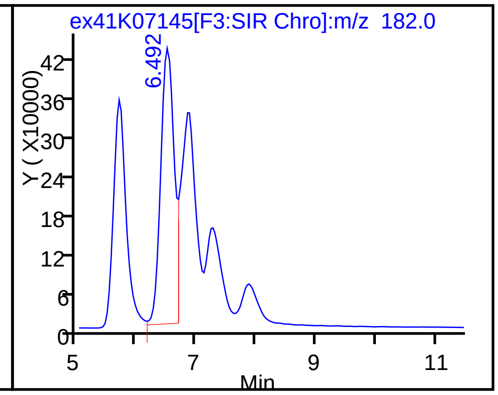
13 3,4-Dinitrotoluene



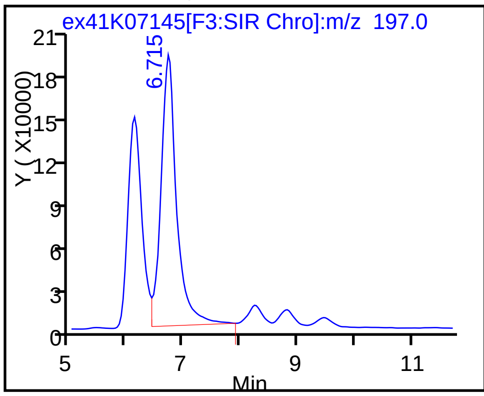
14 4-Amino-2,6-dinitrotoluene



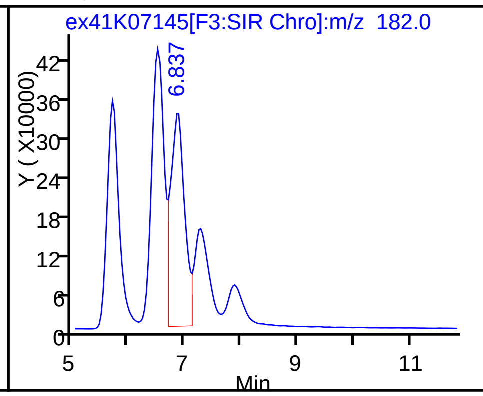
15 2,3-Dinitrotoluene



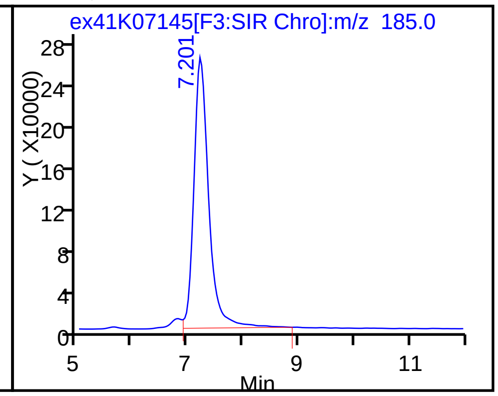
16 2-Amino-4,6-dinitrotoluene



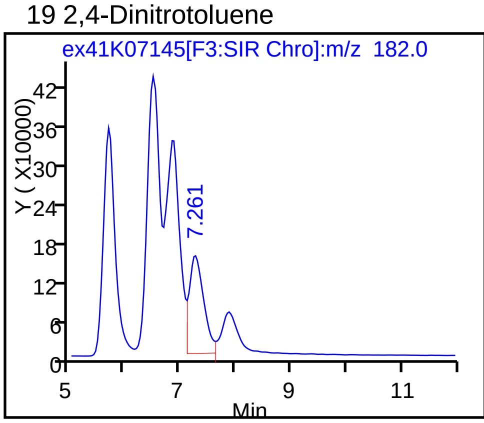
17 2,6-Dinitrotoluene



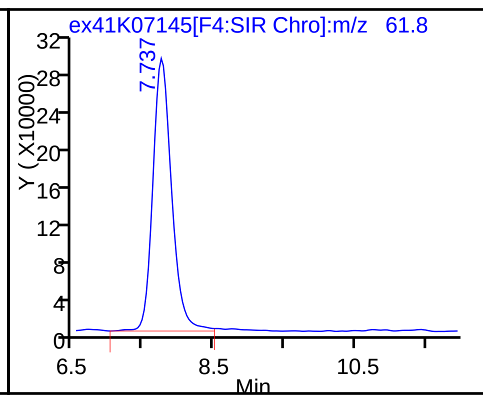
* 18 2,4-dinitrotoluene-d3



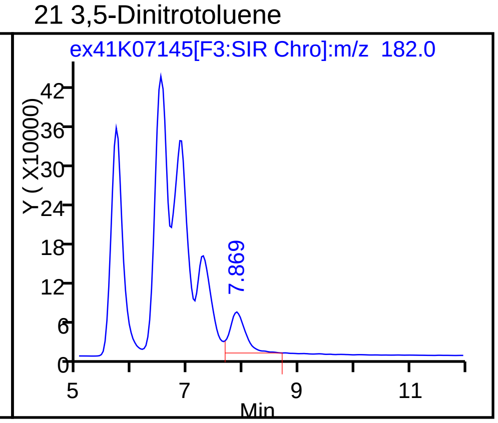
19 2,4-Dinitrotoluene



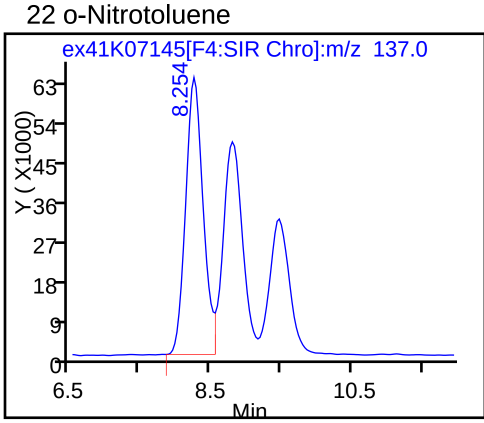
20 PETN



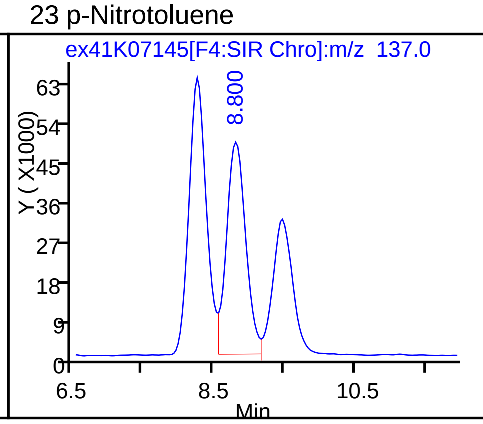
21 3,5-Dinitrotoluene



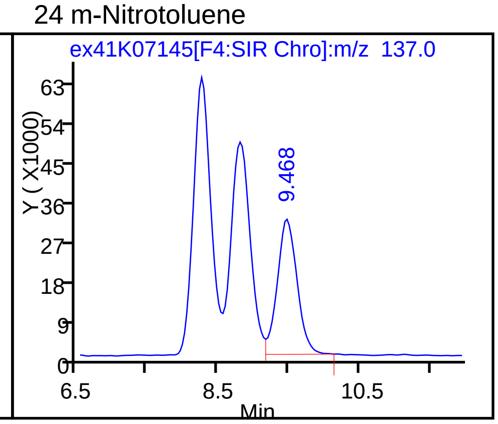
22 o-Nitrotoluene



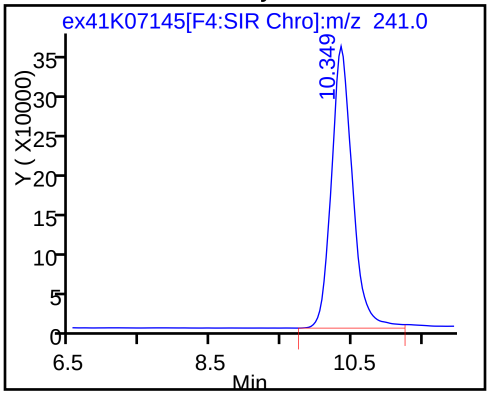
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



Report Date: 09-Nov-2011 06:55:57 Chrom Revision: 1.2 13-Jul-2011 10:43:06

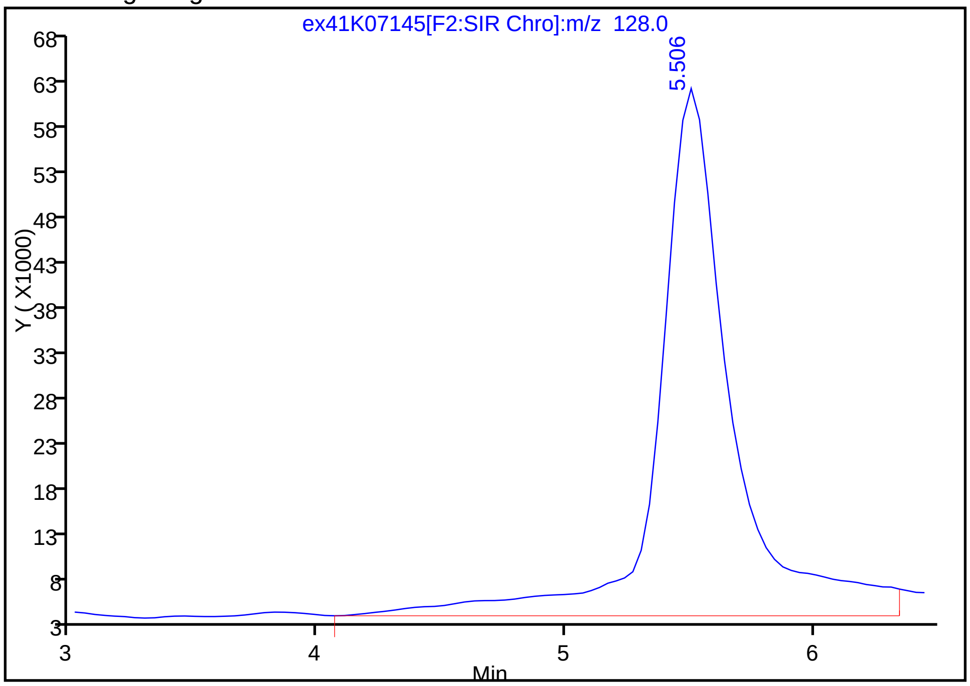
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07145.d		
Injection Date:	09-Nov-2011 00:25:13	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	141
Operator ID:		Injection Vol:	40.00 ul

$ 11 Nitrobenzene-d5, Signal: 1, m/z: 128.0 Type: quant, RT: 5.51, Det: F2:SIR

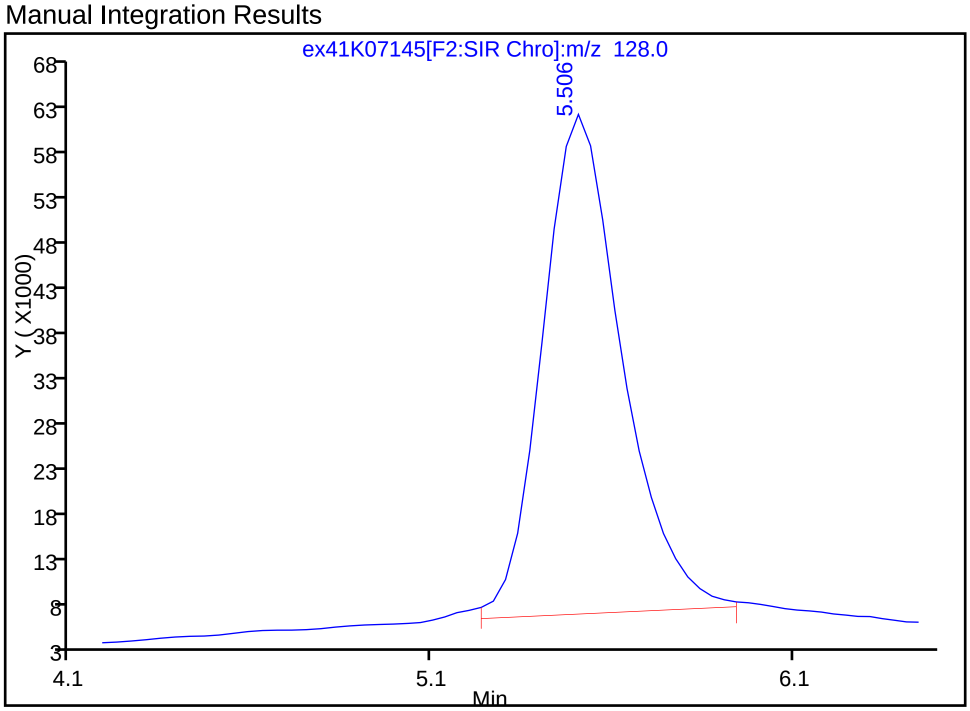
Processing Integration Results

RT: 5.51
Response: 1282258
Amount: 143.6486



Manual Integration Results

RT: 5.51
Response: 844249
Amount: 93.491730



Reviewer: meyera, 09-Nov-2011 06:42:27
Audit Action: Manually Integrated
Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Lab Sample ID: CCV 280-95320/150 Calibration Date: 11/09/2011 02:27

Instrument ID: LC_LCMS4 Calib Start Date: 11/07/2011 15:53

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/07/2011 17:14

Lab File ID: ex41K07154.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.079		48.6	50.0	-2.8	20.0
RDX	Lin1		1.079		53.8	49.4	9.0	20.0
1,3,5-Trinitrobenzene	Lin1		1.072		44.2	50.1	-11.7	20.0
Tetryl	Lin1		1.513		45.1	49.7	-9.3	20.0
1,3-Dinitrobenzene	Lin1		1.106		51.5	50.7	1.6	20.0
Nitroglycerin	Lin1		6.878		49.0	50.0	-2.0	30.0
2,4,6-Trinitrotoluene	Lin1		4.797		45.8	50.1	-8.5	20.0
Nitrobenzene	Lin1		0.8923		44.8	50.0	-10.3	20.0
3,4-Dinitrotoluene	Lin1		2.723		56.7	50.0	13.4	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.353		52.0	49.4	5.4	20.0
2,3-Dinitrotoluene	Ave	3.203	3.469		54.1	50.0	8.3	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.913		55.7	50.1	11.3	20.0
2,6-Dinitrotoluene	Lin1		2.961		53.3	50.1	6.5	20.0
2,4-Dinitrotoluene	Lin1		1.366		52.2	50.2	4.1	20.0
PETN	Qua1		3.020		52.4	49.9	5.0	30.0
3,5-Dinitrotoluene	Lin1		0.7149		52.1	50.0	4.2	30.0
2-Nitrotoluene	Lin1		0.6312		57.6	49.6	16.2	20.0
4-Nitrotoluene	Lin1		0.5050		53.3	49.8	7.1	20.0
3-Nitrotoluene	Lin1		0.3350		54.4	49.4	10.1	20.0
2,4,6-Trinitro-3-xylene	Ave	12.25	10.72		43.8	50.0	-12.5	30.0
Nitrobenzene-d5	Lin1		1.383		53.3	50.0	6.6	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07154.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	09-Nov-2011 02:27:18	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/08/11EX4 CCV 50 ug/L 280-0002728-150		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	95320	Lims Sample ID:	150
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:56:03	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	420907	48.6			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		1012284	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3205903	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	682902	53.8			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	381836	44.2			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.910	535159	45.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1841148	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.016	399052	51.5			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	2447482	49.0			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.100	1708674	45.8			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	492151	53.3			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	317162	44.8			
13 3,4-Dinitrotoluene										
3	182.0	5.651	5.651	0.000	0.788	2343899	56.7			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.844	1149059	52.0			

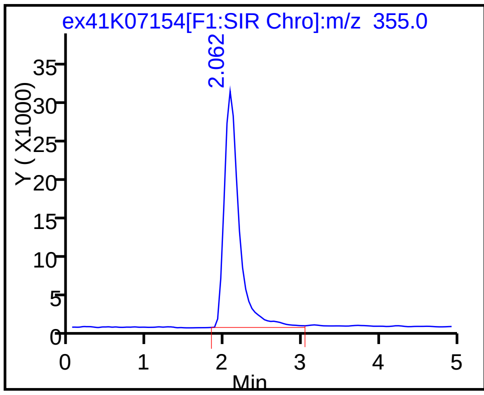
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.459	6.459	0.000	0.901	2983556	54.1			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.928	1647249	55.7			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.949	2549852	53.3			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.170	0.000		4301575	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.231	0.000	1.008	1178569	52.2			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	2593092	52.4			
21 3,5-Dinitrotoluene										
3	182.0	7.839	7.839	0.000	1.093	615021	52.1			
22 o-Nitrotoluene										
4	137.0	8.193	8.193	0.000	1.000	538137	57.6			
23 p-Nitrotoluene										
4	137.0	8.739	8.739	0.000	1.000	432261	53.3			
24 m-Nitrotoluene										
4	137.0	9.408	9.408	0.000	1.000	284712	54.4			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.288	10.288	0.000	1.000	3814115	43.8			

Report Date: 09-Nov-2011 06:56:03 Chrom Revision: 1.2 13-Jul-2011 10:43:06

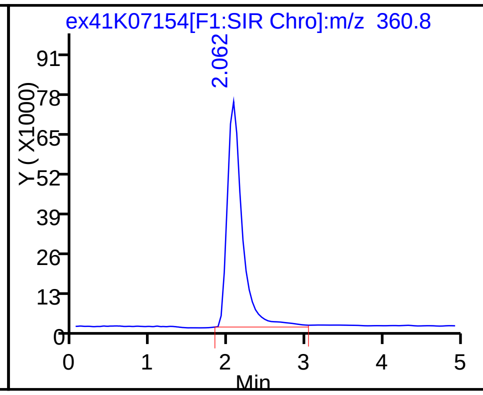
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07154.d

Injection Date:	09-Nov-2011 02:27:18	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	150
Operator ID:		Injection Vol:	40.00 ul

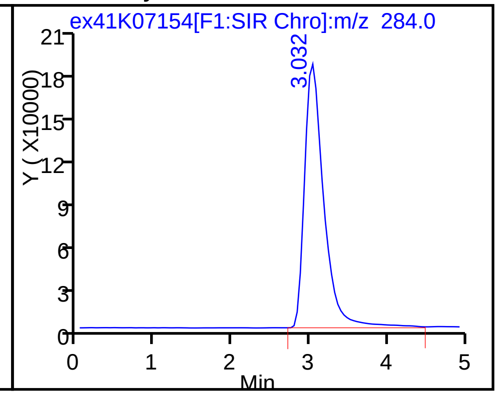
2 HMX



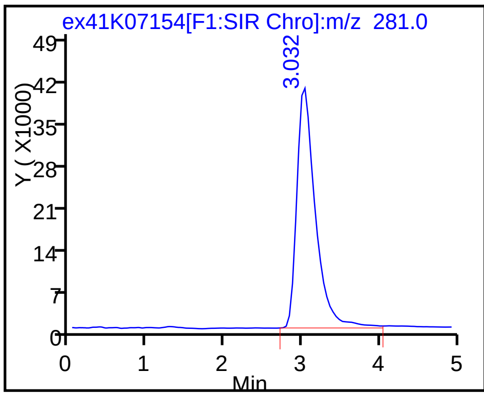
* 1 HMX-13C4



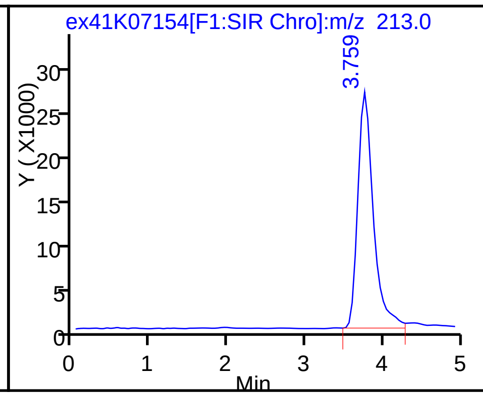
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



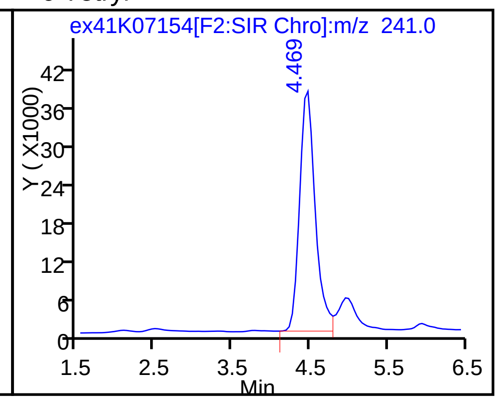
4 RDX



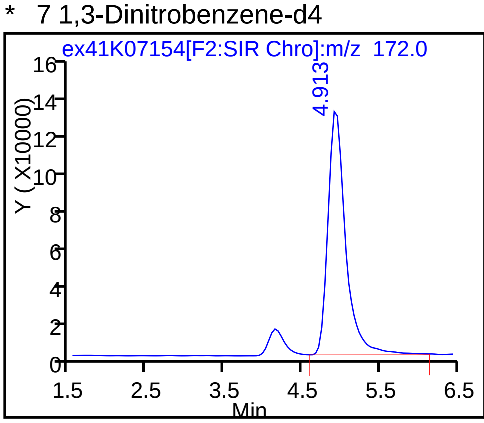
5 1,3,5-Trinitrobenzene



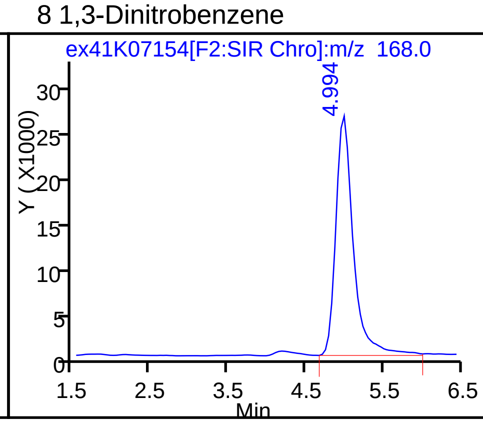
6 Tetryl



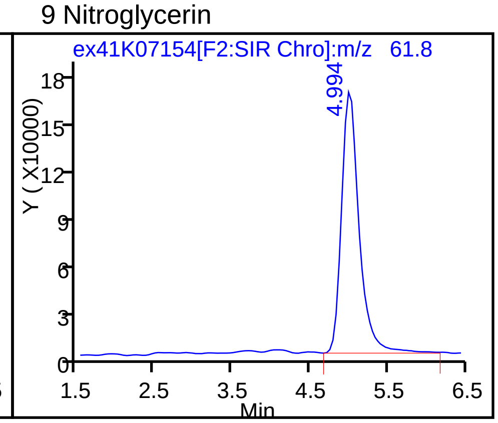
* 7 1,3-Dinitrobenzene-d4



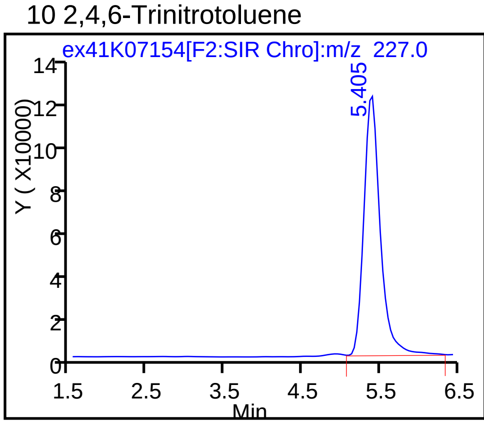
8 1,3-Dinitrobenzene



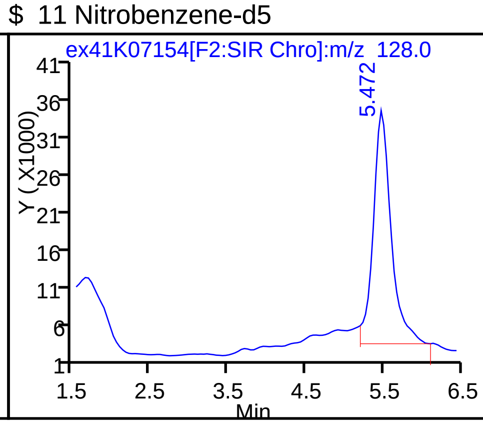
9 Nitroglycerin



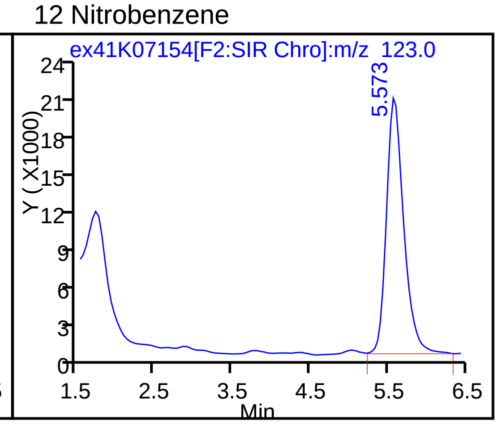
10 2,4,6-Trinitrotoluene



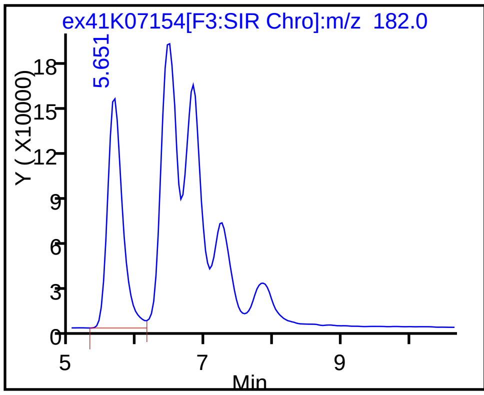
$ 11 Nitrobenzene-d5



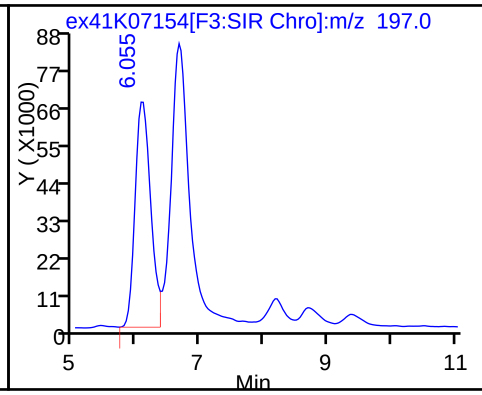
12 Nitrobenzene



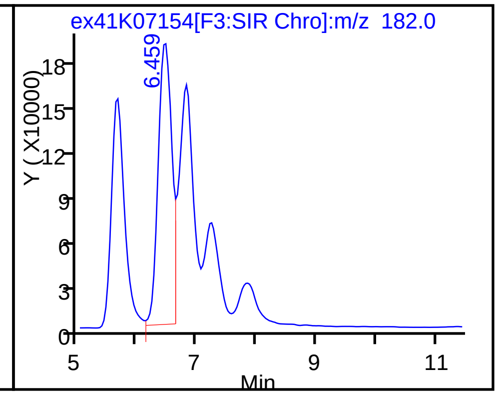
13 3,4-Dinitrotoluene



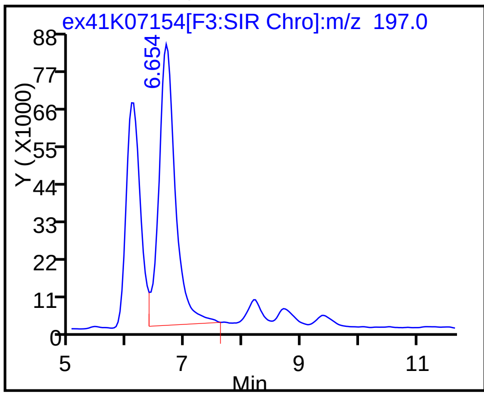
14 4-Amino-2,6-dinitrotoluene



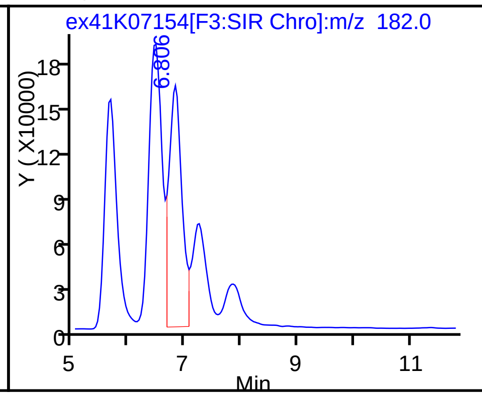
15 2,3-Dinitrotoluene



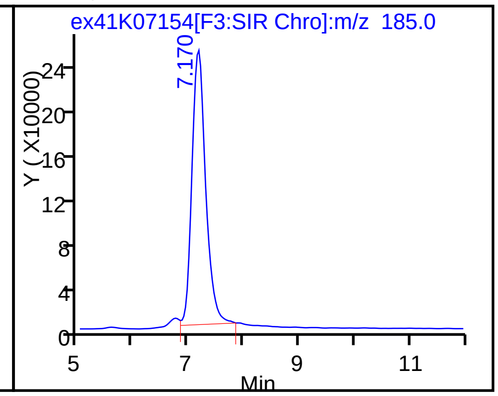
16 2-Amino-4,6-dinitrotoluene



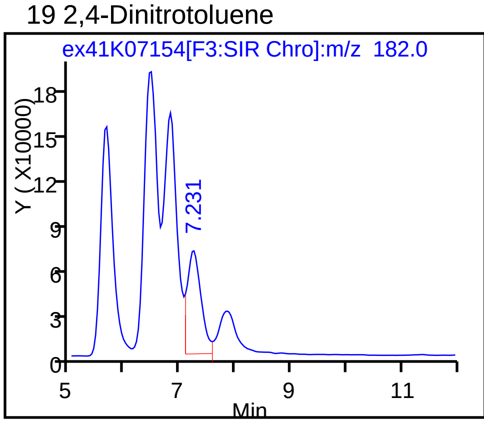
17 2,6-Dinitrotoluene



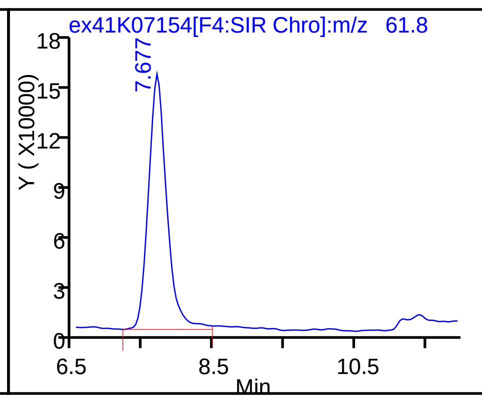
* 18 2,4-dinitrotoluene-d3



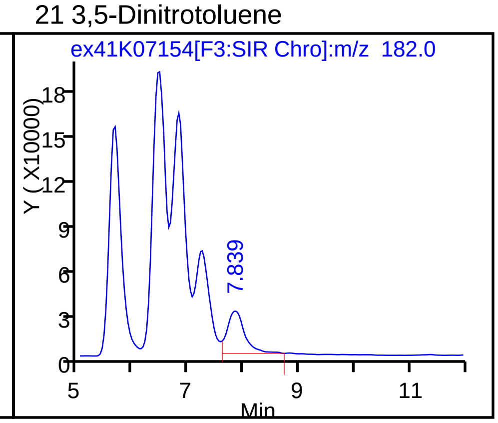
19 2,4-Dinitrotoluene



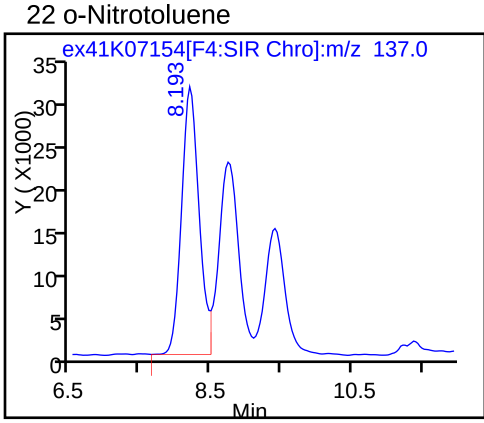
20 PETN



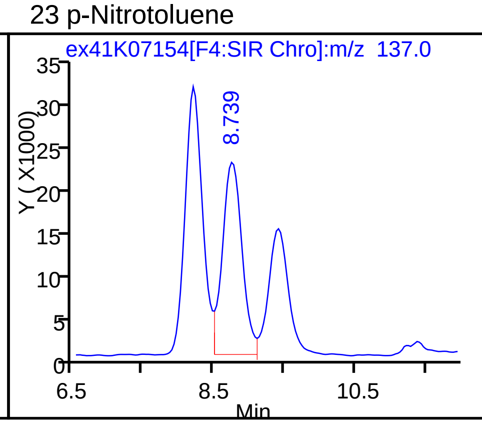
21 3,5-Dinitrotoluene



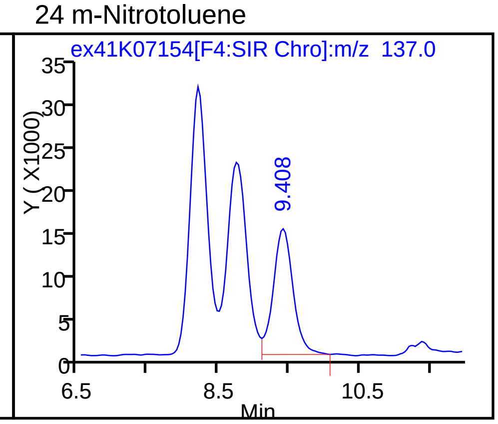
22 o-Nitrotoluene



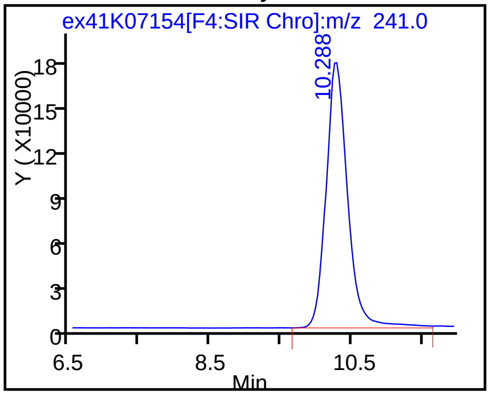
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Lab Sample ID: CCV 280-95468/190 Calibration Date: 11/09/2011 11:35

Instrument ID: LC_LCMS4 Calib Start Date: 11/07/2011 15:53

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/07/2011 17:14

Lab File ID: ex41K07194.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.241		52.4	50.0	4.8	20.0
RDX	Lin1		1.034		51.4	49.4	4.2	20.0
1,3,5-Trinitrobenzene	Lin1		1.210		49.7	50.1	-0.7	20.0
Tetryl	Lin1		1.459		43.6	49.7	-12.3	20.0
1,3-Dinitrobenzene	Lin1		1.125		52.3	50.7	3.2	20.0
Nitroglycerin	Lin1		6.985		49.7	50.0	-0.6	30.0
2,4,6-Trinitrotoluene	Lin1		5.206		49.7	50.1	-0.7	20.0
Nitrobenzene	Lin1		0.9063		45.5	50.0	-8.9	20.0
3,4-Dinitrotoluene	Lin1		2.603		54.2	50.0	8.4	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.286		49.4	49.4	0.1	20.0
2,3-Dinitrotoluene	Ave	3.203	3.426		53.5	50.0	7.0	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.777		51.8	50.1	3.5	20.0
2,6-Dinitrotoluene	Lin1		2.695		48.5	50.1	-3.1	20.0
2,4-Dinitrotoluene	Lin1		1.333		50.9	50.2	1.5	20.0
PETN	Qua1		2.788		48.1	49.9	-3.6	30.0
3,5-Dinitrotoluene	Lin1		0.6477		47.4	50.0	-5.2	30.0
2-Nitrotoluene	Lin1		0.5392		49.4	49.6	-0.3	20.0
4-Nitrotoluene	Lin1		0.4425		46.8	49.8	-5.9	20.0
3-Nitrotoluene	Lin1		0.2867		46.8	49.4	-5.3	20.0
2,4,6-Trinitro-3-xylene	Ave	12.25	12.83		52.4	50.0	4.7	30.0
Nitrobenzene-d5	Lin1		1.175		44.8	50.0	-10.4	20.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07194.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	09-Nov-2011 11:35:22	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/08/11EX4 CCV 50 ug/L 280-0002728-190		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	95468	Lims Sample ID:	190
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 12:27:23	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

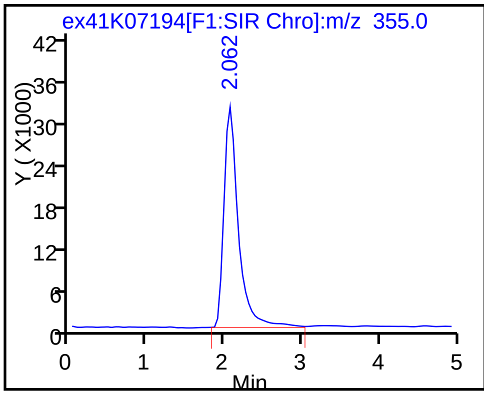
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	419164	52.4			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		935274	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	640586	51.4			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		3139935	250.0			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	408649	49.7			
	6 Tetryl									
2	241.0	4.429	4.429	0.000	0.901	489473	43.6			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.913	4.913	0.000		1746445	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	4.954	4.954	0.000	1.008	384884	52.3			
	9 Nitroglycerin									
2	61.8	4.994	4.994	0.000	1.016	2357407	49.7			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.371	5.371	0.000	1.093	1758935	49.7			
$	11 Nitrobenzene-d5									
2	128.0	5.472	5.472	0.000	1.114	396593	44.8			
	12 Nitrobenzene									
2	123.0	5.573	5.573	0.000	1.134	305569	45.5			
	13 3,4-Dinitrotoluene									
3	182.0	5.617	5.617	0.000	0.787	2547885	54.2			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.055	6.055	0.000	0.848	1241757	49.4			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.425	6.425	0.000	0.900	3351816	53.5			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.624	0.000	0.928	1740302	51.8			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.776	0.000	0.949	2640087	48.5			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		4892716	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.201	0.000	1.009	1308022	50.9			
20 PETN										
4	61.8	7.646	7.646	0.000	1.000	2722706	48.1			
21 3,5-Dinitrotoluene										
3	182.0	7.778	7.778	0.000	1.089	633832	47.4			
22 o-Nitrotoluene										
4	137.0	8.162	8.162	0.000	1.000	522851	49.4			
23 p-Nitrotoluene										
4	137.0	8.709	8.709	0.000	1.000	430803	46.8			
24 m-Nitrotoluene										
4	137.0	9.347	9.347	0.000	1.000	277139	46.8			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.227	10.227	0.000	1.000	4329488	52.4			

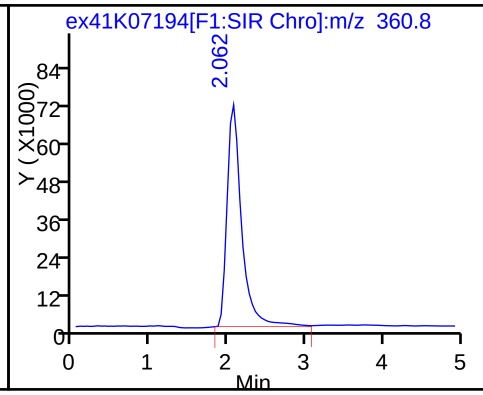
Report Date: 09-Nov-2011 12:27:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07194.d

Injection Date:	09-Nov-2011 11:35:22	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95468	Lims Sample ID:	190
Operator ID:		Injection Vol:	40.00 ul

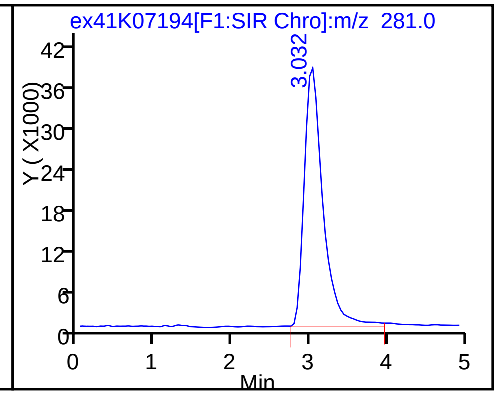
2 HMX



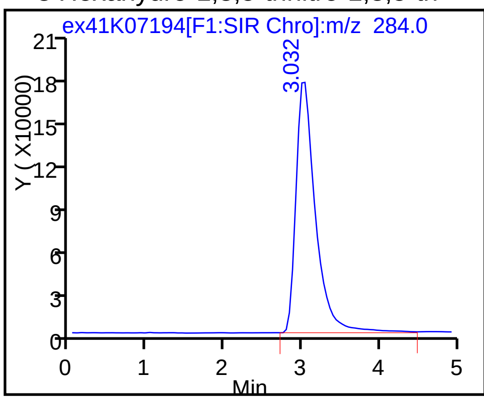
* 1 HMX-13C4



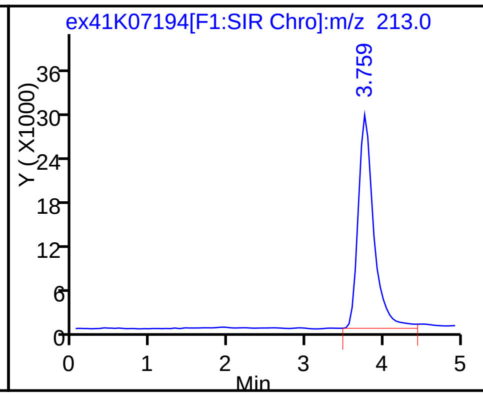
4 RDX



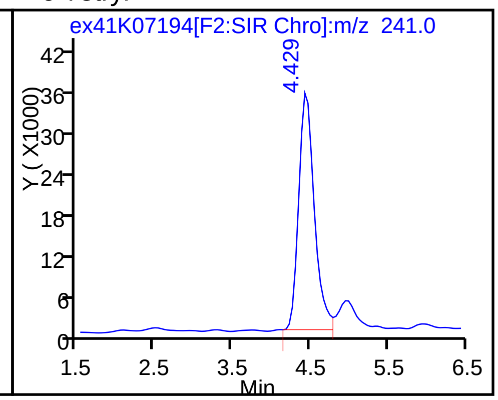
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



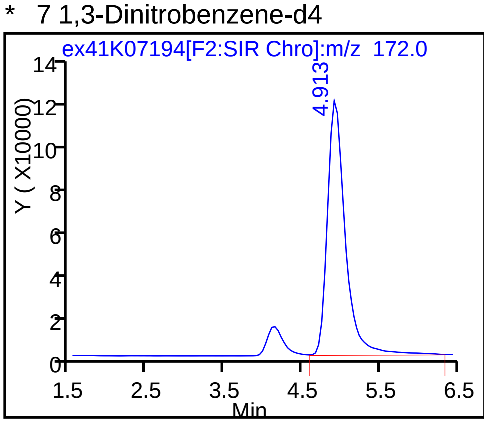
5 1,3,5-Trinitrobenzene



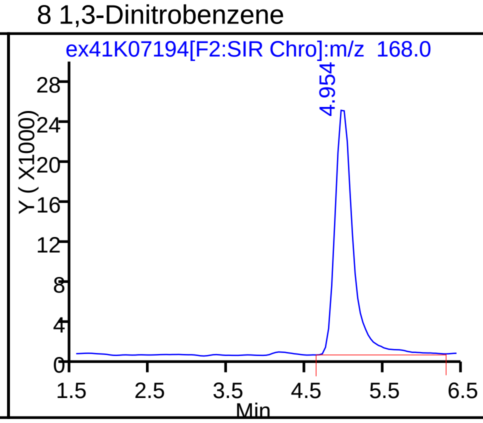
6 Tetryl



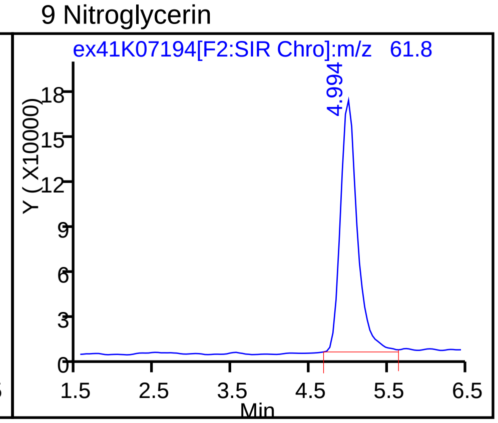
* 7 1,3-Dinitrobenzene-d4



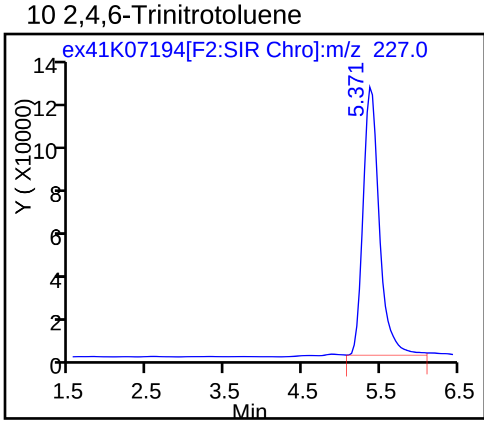
8 1,3-Dinitrobenzene



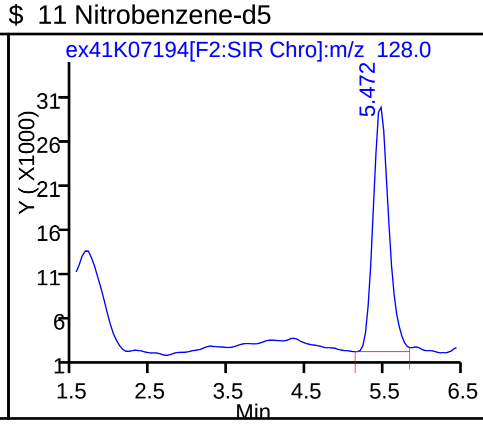
9 Nitroglycerin



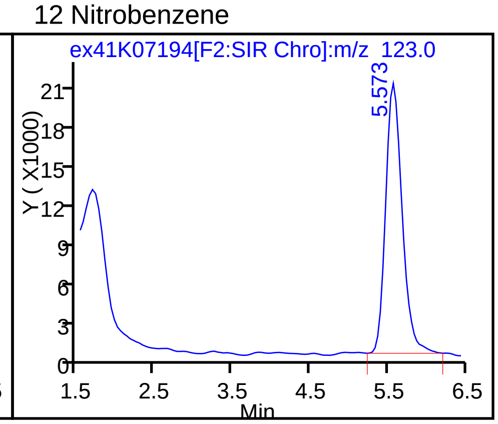
10 2,4,6-Trinitrotoluene



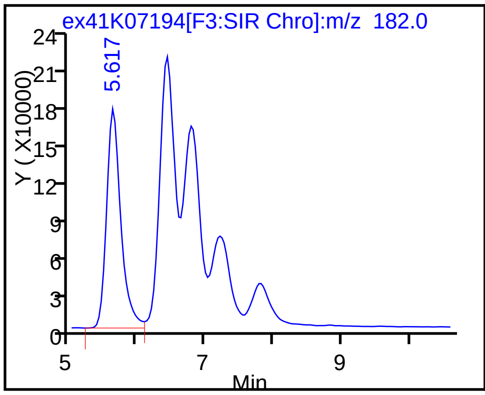
$ 11 Nitrobenzene-d5



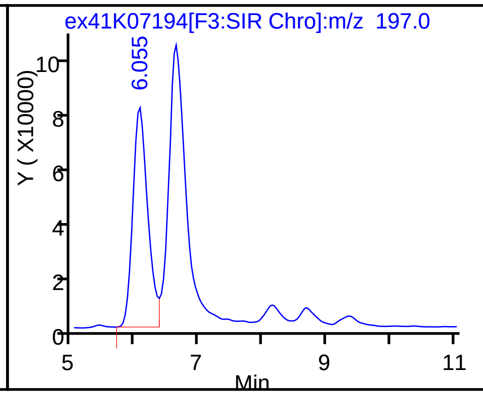
12 Nitrobenzene



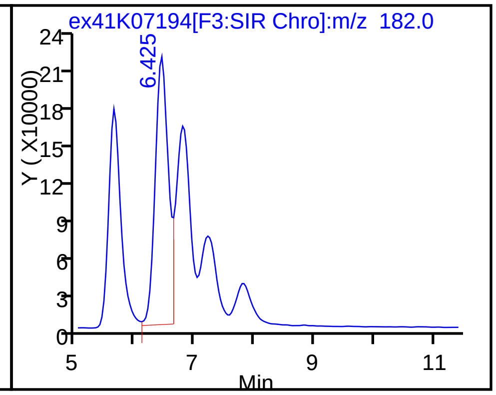
13 3,4-Dinitrotoluene



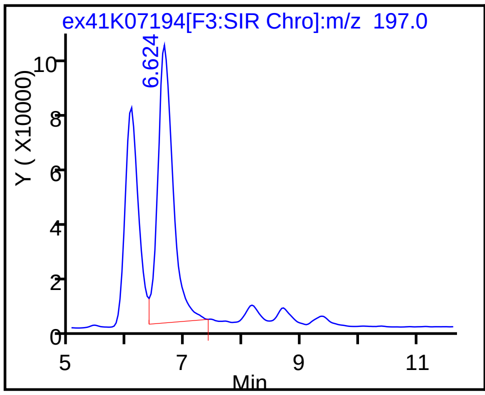
14 4-Amino-2,6-dinitrotoluene



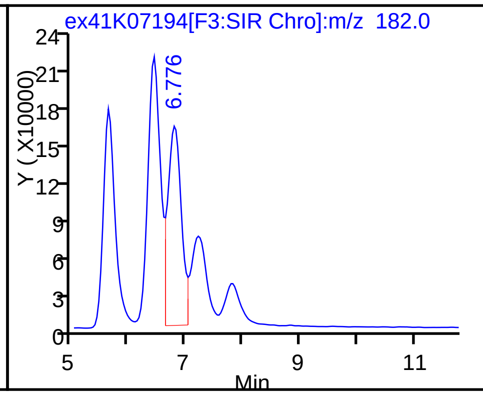
15 2,3-Dinitrotoluene



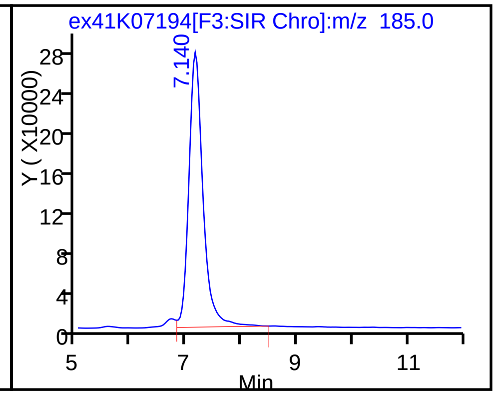
16 2-Amino-4,6-dinitrotoluene



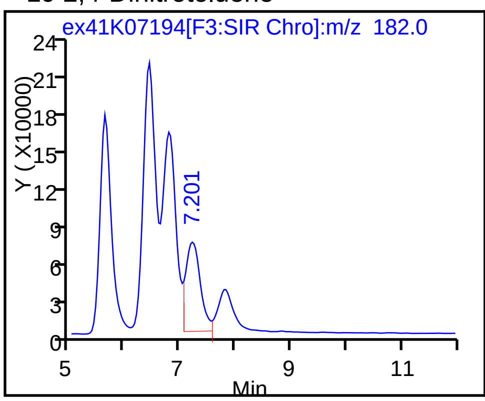
17 2,6-Dinitrotoluene



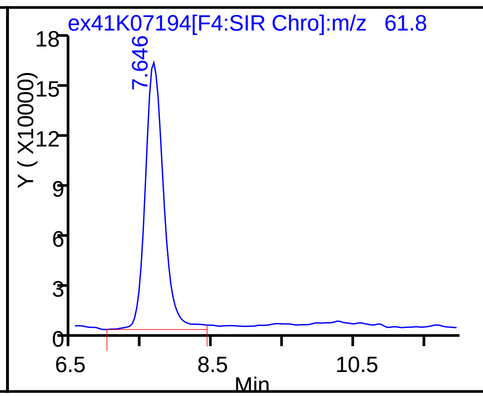
* 18 2,4-dinitrotoluene-d3



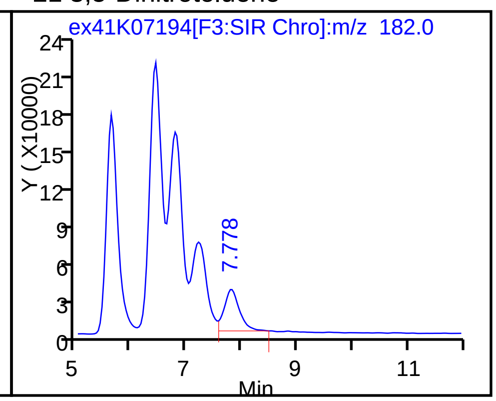
19 2,4-Dinitrotoluene



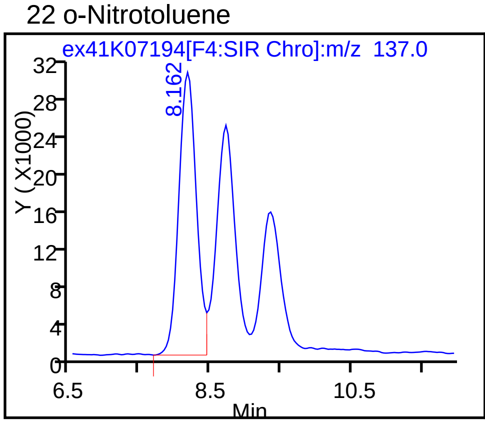
20 PETN



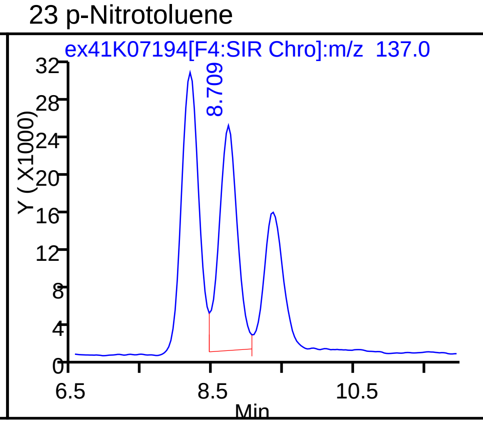
21 3,5-Dinitrotoluene



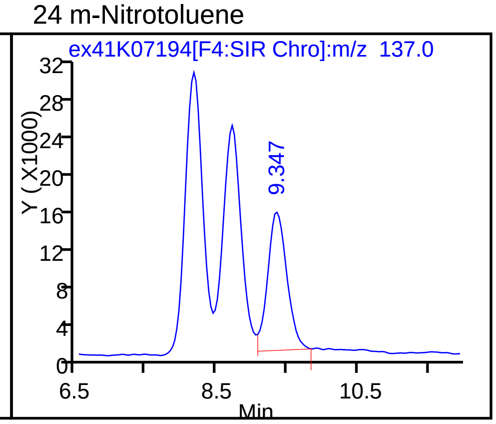
22 o-Nitrotoluene



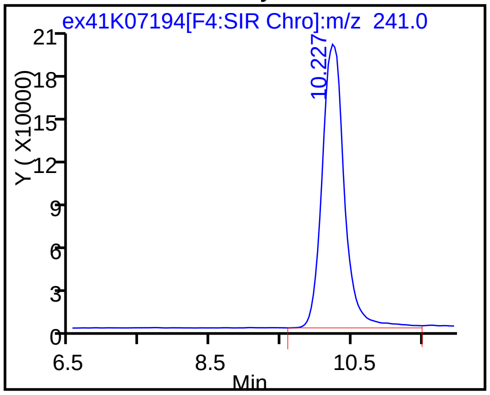
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Lab Sample ID: CCV 280-95468/197   Calibration Date: 11/09/2011 13:24

Instrument ID: LC_LCMS4   Calib Start Date: 11/07/2011 15:53

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 11/07/2011 17:14

Lab File ID: ex41K07202.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.067		96.9	100	-3.1	20.0
RDX	Lin1		1.033		104	98.7	5.0	20.0
1,3,5-Trinitrobenzene	Lin1		1.280		105	100	4.4	20.0
Tetryl	Lin1		1.560		91.1	99.4	-8.4	20.0
1,3-Dinitrobenzene	Lin1		1.164		108	101	6.3	20.0
Nitroglycerin	Lin1		6.864		97.4	100	-2.6	30.0
2,4,6-Trinitrotoluene	Lin1		4.846		92.6	100	-7.5	20.0
Nitrobenzene	Lin1		1.003		102	99.9	1.9	20.0
3,4-Dinitrotoluene	Lin1		2.457		102	100	2.4	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.192		91.9	98.7	-6.9	20.0
2,3-Dinitrotoluene	Ave	3.203	3.345		104	100	4.4	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.690		97.6	100	-2.5	20.0
2,6-Dinitrotoluene	Lin1		2.601		93.4	100	-6.7	20.0
2,4-Dinitrotoluene	Lin1		1.298		97.7	100	-2.6	20.0
PETN	Qua1		2.660		96.3	99.8	-3.5	30.0
3,5-Dinitrotoluene	Lin1		0.7074		102	100	1.9	30.0
2-Nitrotoluene	Lin1		0.5422		98.1	99.1	-1.0	20.0
4-Nitrotoluene	Lin1		0.4628		96.8	99.5	-2.7	20.0
3-Nitrotoluene	Lin1		0.3002		96.5	98.8	-2.3	20.0
2,4,6-Trinitro-3-xylene	Ave	12.25	11.34		92.5	100	-7.5	30.0
Nitrobenzene-d5	Lin1		1.244		98.5	100	-1.5	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07202.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	09-Nov-2011 13:24:42	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/08/11EX5 CCV 100 ug/L 280-0002728-197		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	95468	Lims Sample ID:	197
Sublist:	chrom-8321exp4-25*sub3		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 14:08:25	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

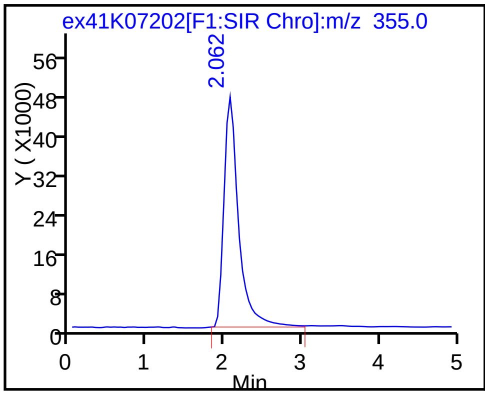
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	633231	96.9			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		765709	250.0			
4 RDX										
1	281.0	2.991	2.991	0.000	1.000	1074343	103.6			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	2.991	2.991	0.000		2635471	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.718	3.718	0.000	1.000	773293	104.5			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	936493	91.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1562064	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.954	4.954	0.000	1.008	712805	107.8			
9 Nitroglycerin										
2	61.8	4.954	4.954	0.000	1.008	4144249	97.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	2928801	92.6			
$ 11 Nitrobenzene-d5										
2	128.0	5.438	5.438	0.000	1.107	751369	98.5			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	604709	101.8			
13 3,4-Dinitrotoluene										
3	182.0	5.583	5.583	0.000	0.785	4577072	102.4			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.021	6.021	0.000	0.847	2190483	91.9			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0	6.391	6.391	0.000	0.899	6226596	104.4			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.594	6.594	0.000	0.927	3150778	97.6			
17 2,6-Dinitrotoluene										
3	182.0	6.745	6.745	0.000	0.949	4847510	93.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.110	7.110	0.000		4655153	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.170	7.170	0.000	1.009	2424706	97.7			
20 PETN										
4	61.8	7.616	7.616	0.000	1.000	4943106	96.3			
21 3,5-Dinitrotoluene										
3	182.0	7.778	7.778	0.000	1.094	1317201	101.9			
22 o-Nitrotoluene										
4	137.0	8.132	8.132	0.000	1.000	1000508	98.1			
23 p-Nitrotoluene										
4	137.0	8.679	8.679	0.000	1.000	857459	96.8			
24 m-Nitrotoluene										
4	137.0	9.316	9.316	0.000	1.000	552360	96.5			
25 2,4,6-Trinitro-3-xylene										
4	241.0	10.197	10.197	0.000	1.000	6844733	92.5			

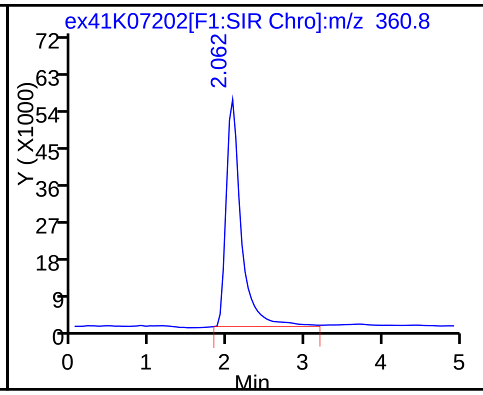
Report Date: 09-Nov-2011 14:08:25 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07202.d

Injection Date:	09-Nov-2011 13:24:42	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95468	Lims Sample ID:	197
Operator ID:		Injection Vol:	40.00 ul

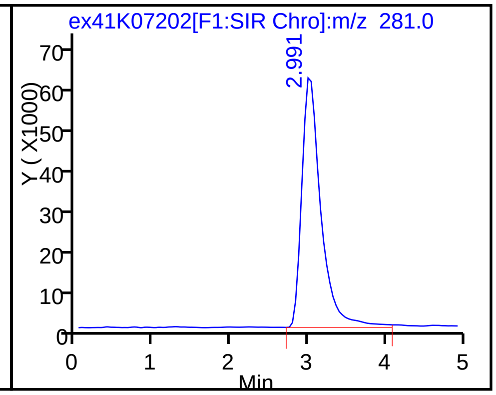
2 HMX



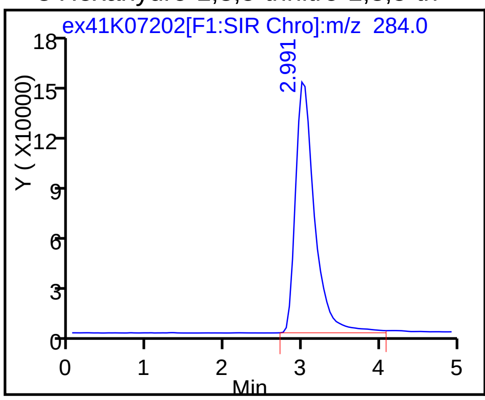
* 1 HMX-13C4



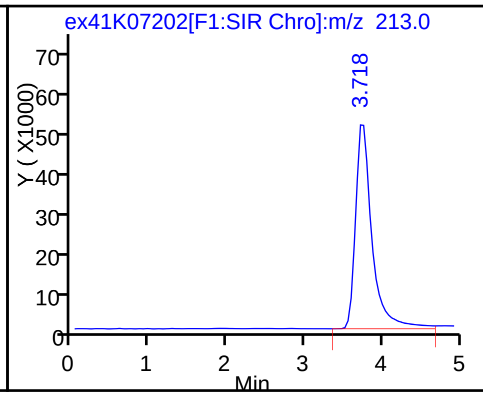
4 RDX



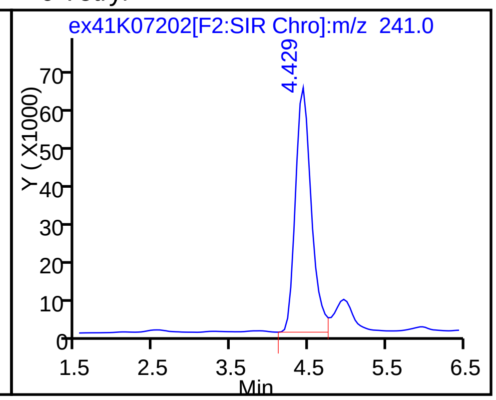
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



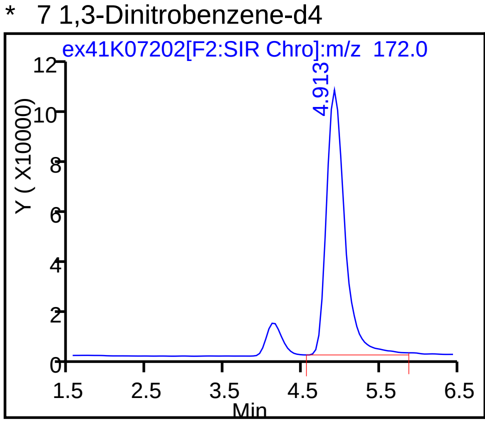
5 1,3,5-Trinitrobenzene



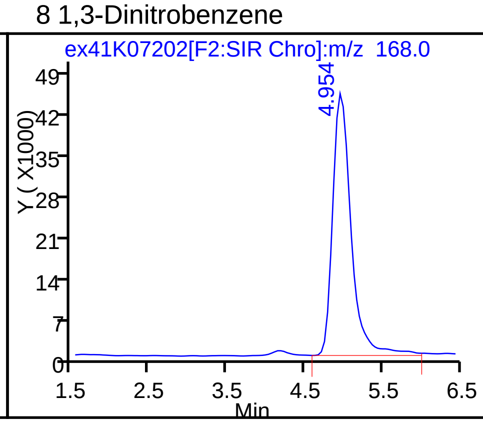
6 Tetryl



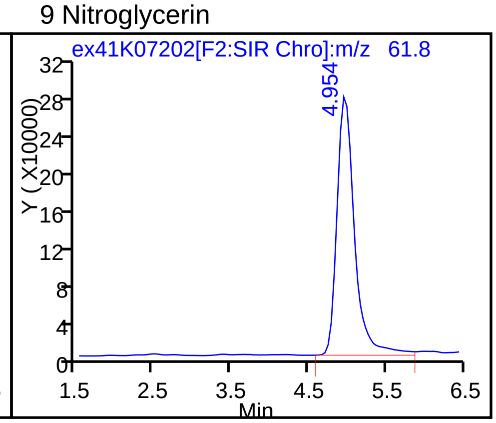
* 7 1,3-Dinitrobenzene-d4



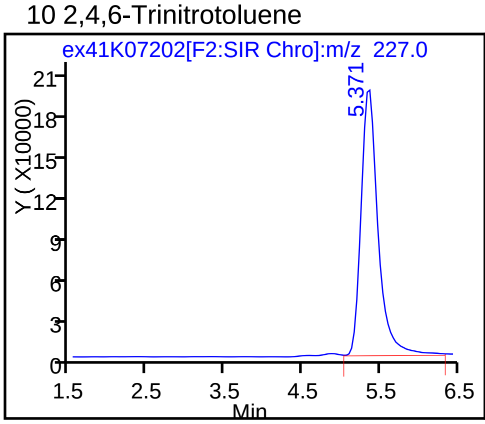
8 1,3-Dinitrobenzene



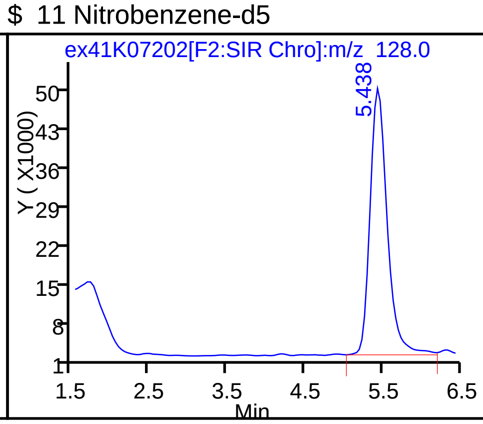
9 Nitroglycerin



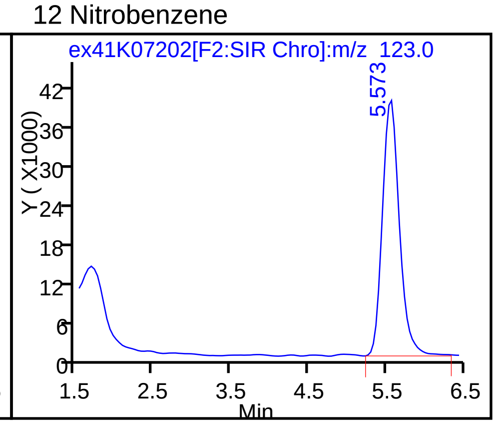
10 2,4,6-Trinitrotoluene



$ 11 Nitrobenzene-d5

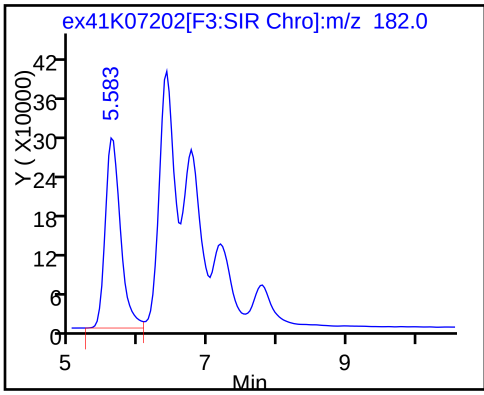


12 Nitrobenzene

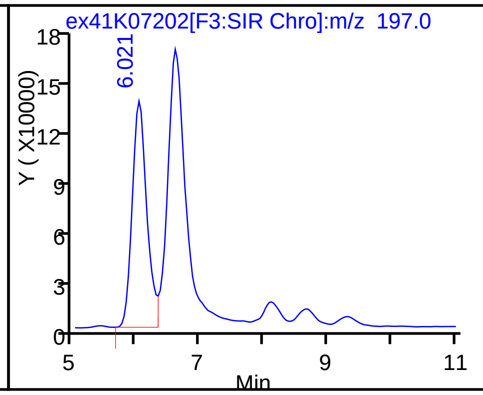


Report Date: 09-Nov-2011 14:08:25 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07202.d

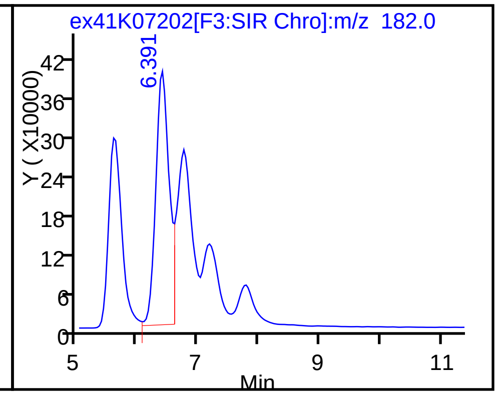
13 3,4-Dinitrotoluene



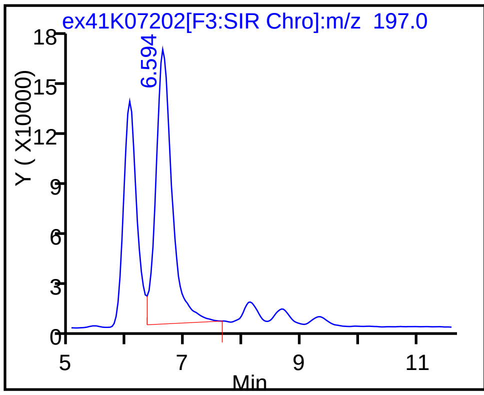
14 4-Amino-2,6-dinitrotoluene



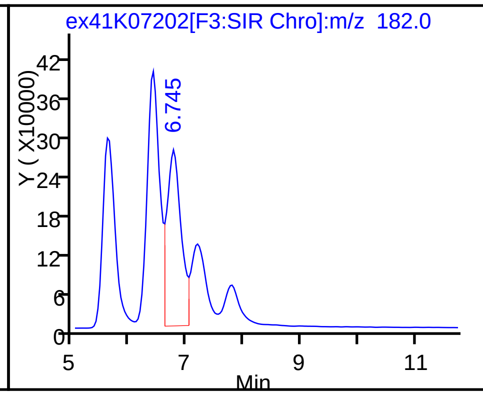
15 2,3-Dinitrotoluene



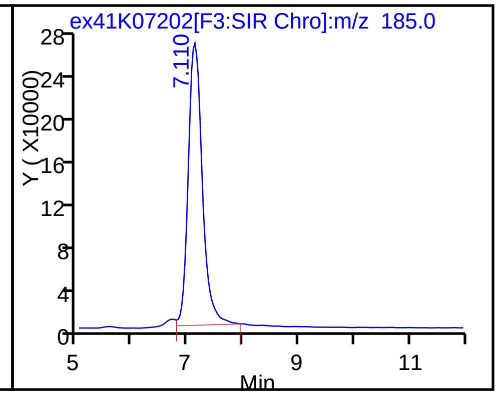
16 2-Amino-4,6-dinitrotoluene



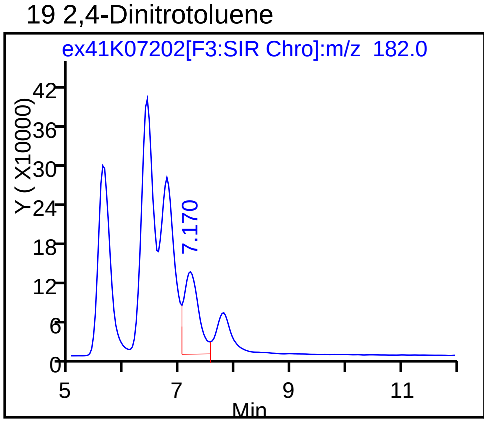
17 2,6-Dinitrotoluene



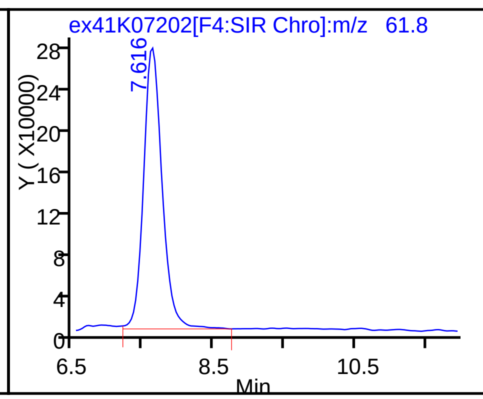
* 18 2,4-dinitrotoluene-d3



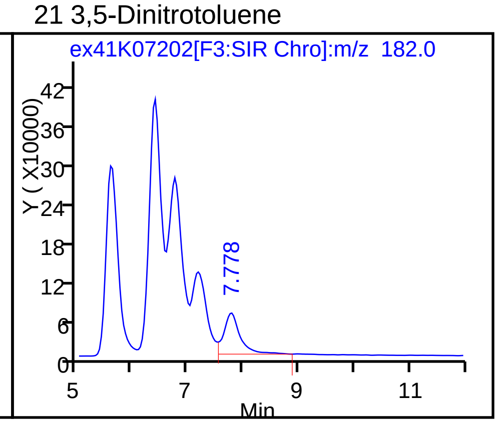
19 2,4-Dinitrotoluene



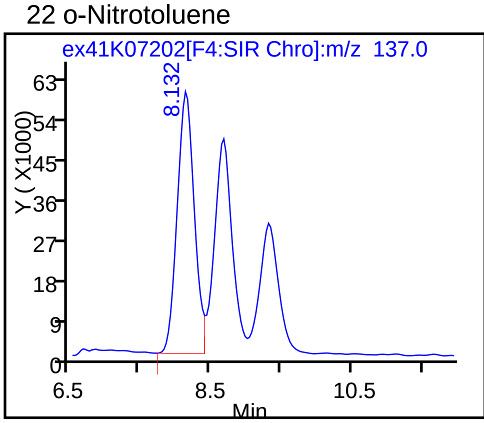
20 PETN



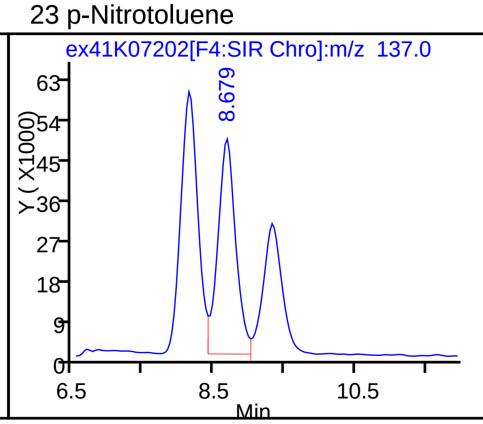
21 3,5-Dinitrotoluene



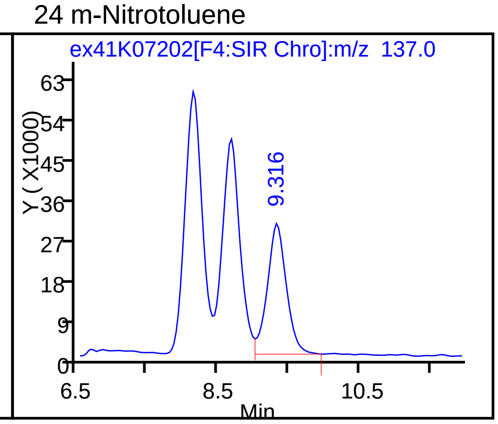
22 o-Nitrotoluene



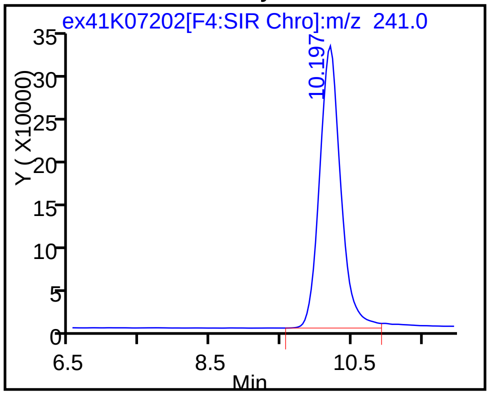
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-94652/1-A

Matrix: Solid   Lab File ID: ex41K07196.d

Analysis Method: 8321B   Date Collected:

Extraction Method: 8330B   Date Extracted: 11/03/2011 15:20

Sample wt/vol: 10.01(g)   Date Analyzed: 11/09/2011 12:03

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95468   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.025	U	0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.012	U	0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.012	U	0.10	0.012	0.0082
606-20-2	2,6-Dinitrotoluene	0.025	U	0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.025	U	0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.025	U	0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.025	U	0.10	0.025	0.011
2691-41-0	HMX	0.012	U	0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.012	U	0.10	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.10	0.012	0.010
78-11-5	PETN	0.012	U	0.10	0.012	0.0051
121-82-4	RDX	0.012	U	0.10	0.012	0.0043
479-45-8	Tetryl	0.012	U	0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07196.d		
Lims ID:	MB 280-94652/1-A	Client ID:	
Inject. Date:	09-Nov-2011 12:03:02	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 280-94652/1-A 280-0002728-191		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	37
Lims Batch ID:	95468	Lims Sample ID:	191
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 14:08:19	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		998537	250.0			
4 RDX										
1	281.0		2.991							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		3384873	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.718							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1706010	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.954							
9 Nitroglycerin										
2	61.8		4.954							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.114	641154	76.3			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.583							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							
15 2,3-Dinitrotoluene										1
3	182.0		6.391							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.594							
17 2,6-Dinitrotoluene										1
3	182.0		6.745							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.110	0.030		4834412	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.170							
20 PETN										
4	61.8		7.616							
21 3,5-Dinitrotoluene										1
3	182.0		7.778							
22 o-Nitrotoluene										1
4	137.0		8.132							
23 p-Nitrotoluene										1
4	137.0		8.679							
24 m-Nitrotoluene										
4	137.0		9.316							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.197							

QC Flag Legend

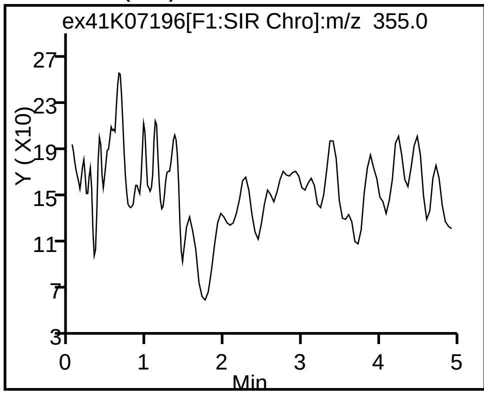
Processing Flags
1 - Missing Peaks

Report Date: 09-Nov-2011 14:08:20 Chrom Revision: 1.2 13-Jul-2011 10:43:06

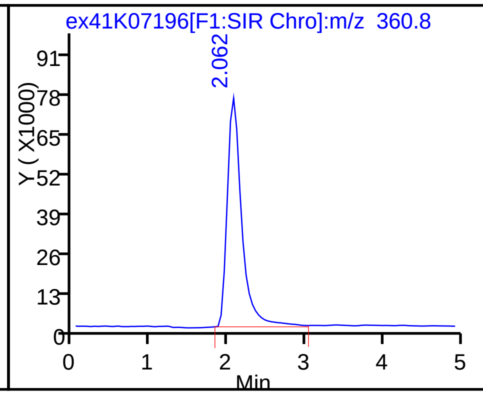
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07196.d

Injection Date:	09-Nov-2011 12:03:02	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95468	Lims Sample ID:	191
Operator ID:		Injection Vol:	40.00 ul

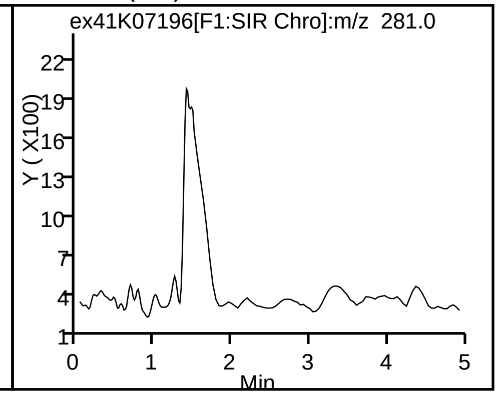
2 HMX (ND)



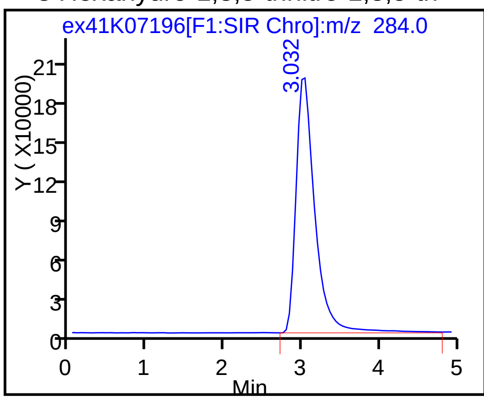
* 1 HMX-13C4



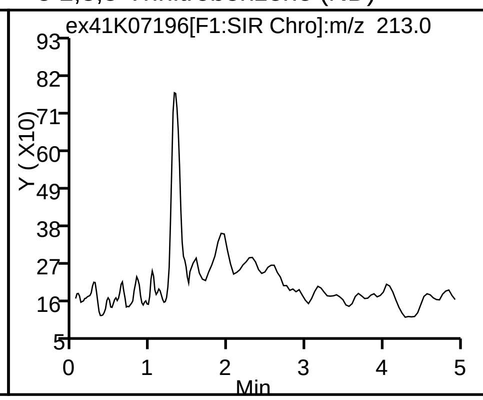
4 RDX (ND)



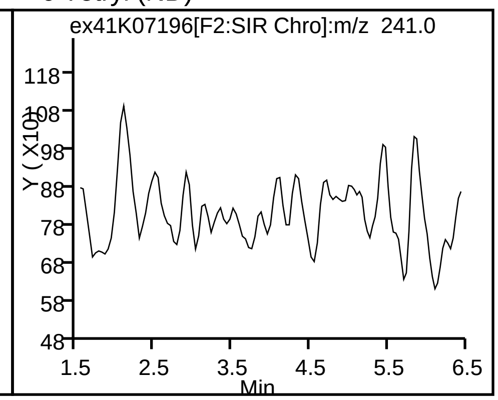
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



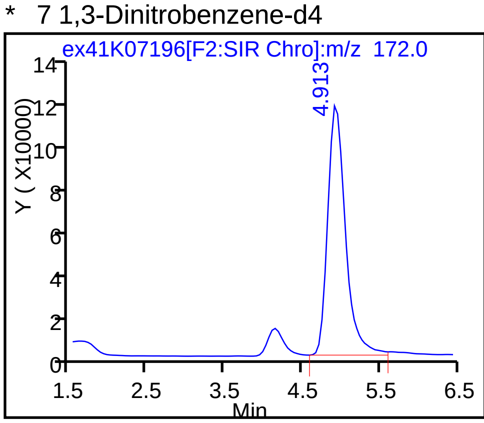
5 1,3,5-Trinitrobenzene (ND)



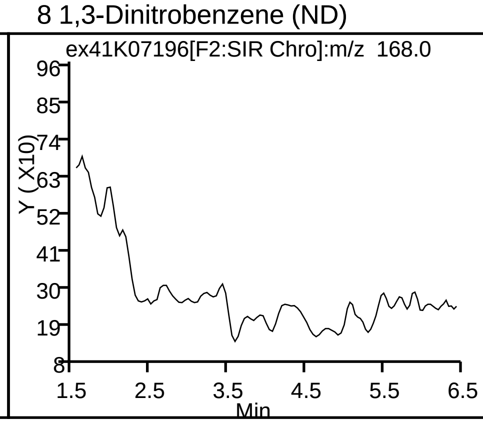
6 Tetryl (ND)



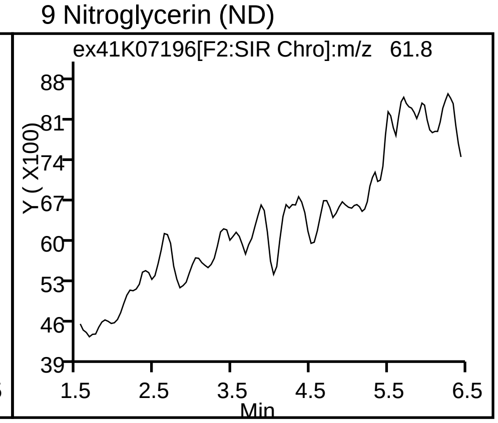
* 7 1,3-Dinitrobenzene-d4



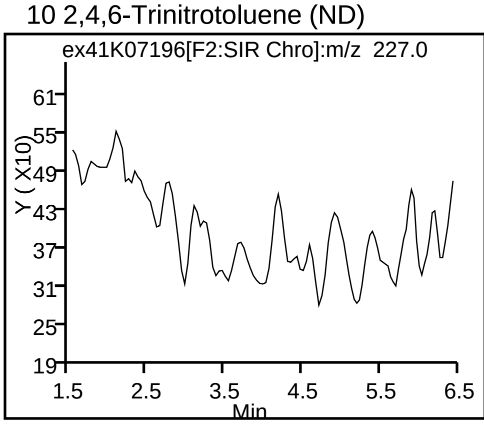
8 1,3-Dinitrobenzene (ND)



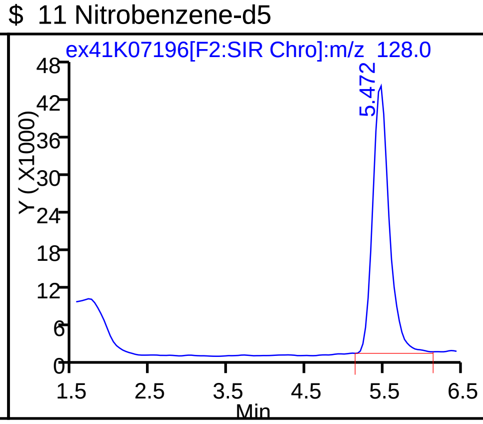
9 Nitroglycerin (ND)



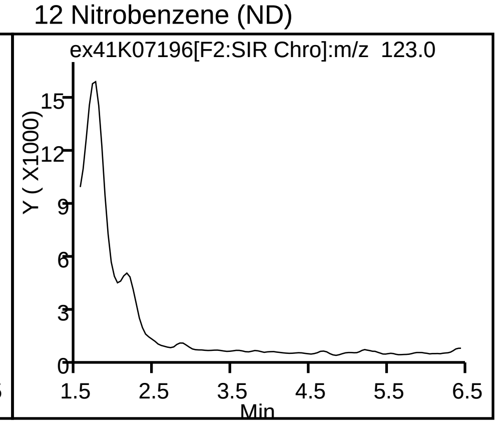
10 2,4,6-Trinitrotoluene (ND)



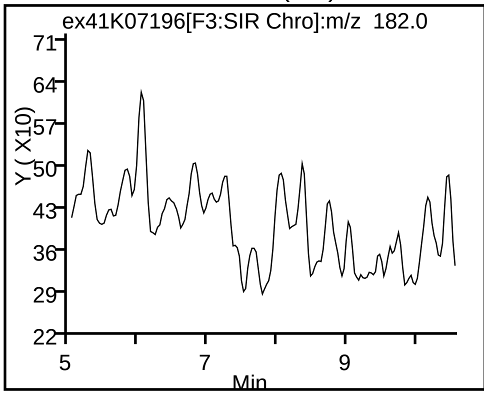
$ 11 Nitrobenzene-d5



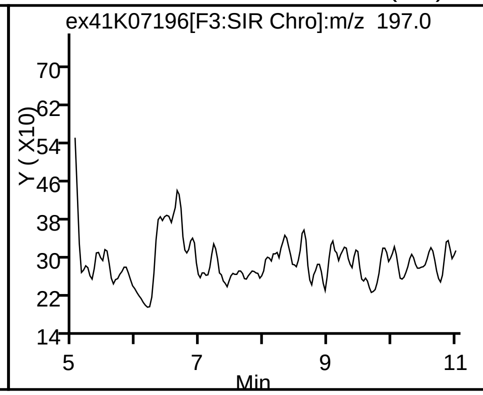
12 Nitrobenzene (ND)



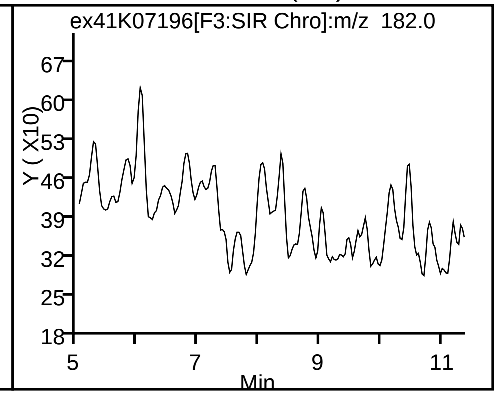
13 3,4-Dinitrotoluene (ND)



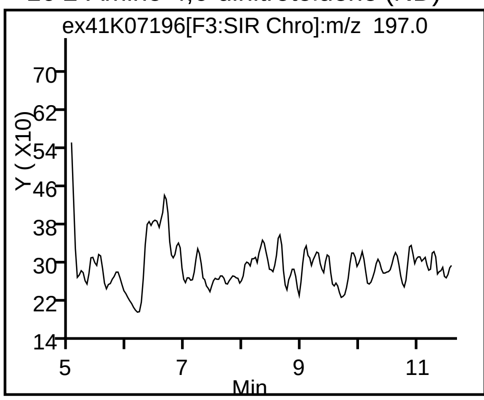
14 4-Amino-2,6-dinitrotoluene (ND)



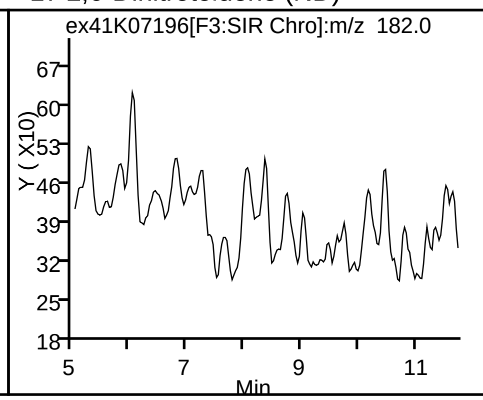
15 2,3-Dinitrotoluene (ND)



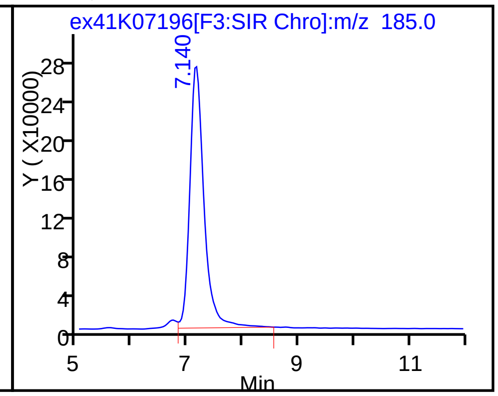
16 2-Amino-4,6-dinitrotoluene (ND)



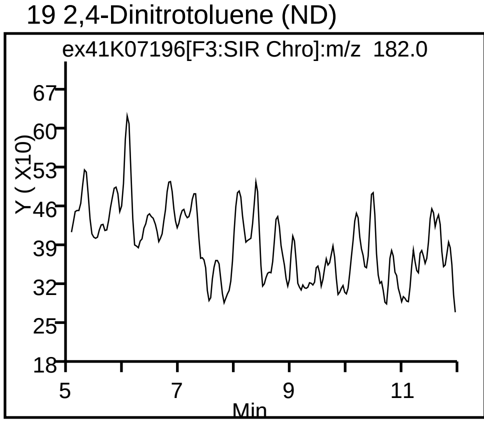
17 2,6-Dinitrotoluene (ND)



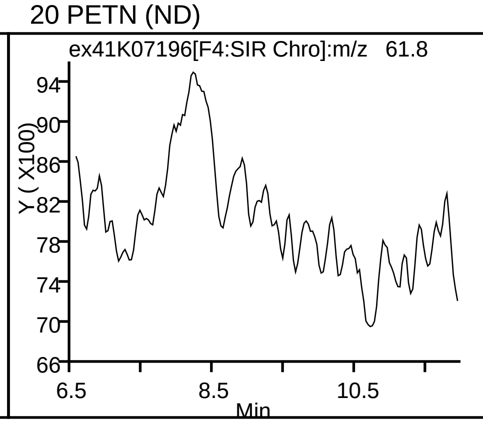
* 18 2,4-dinitrotoluene-d3



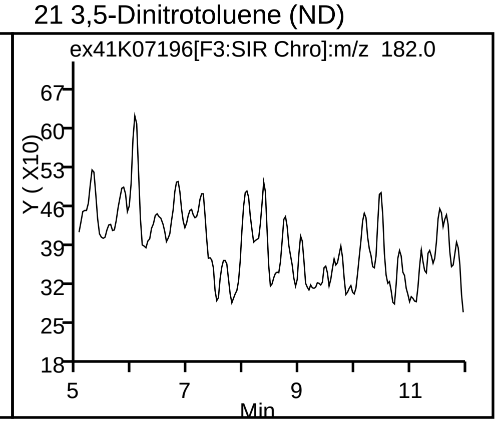
19 2,4-Dinitrotoluene (ND)



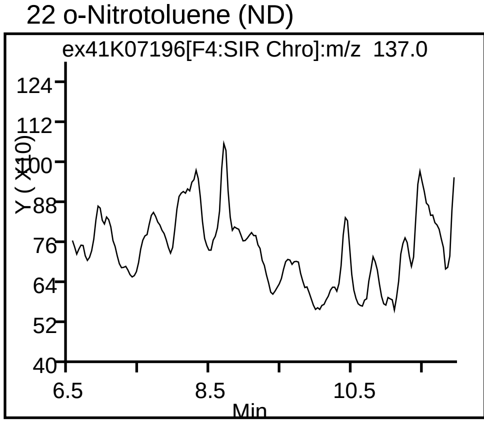
20 PETN (ND)



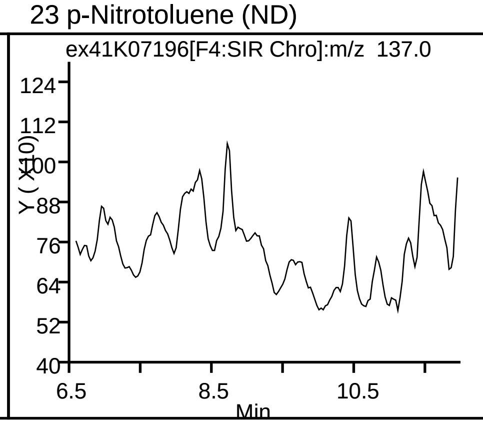
21 3,5-Dinitrotoluene (ND)



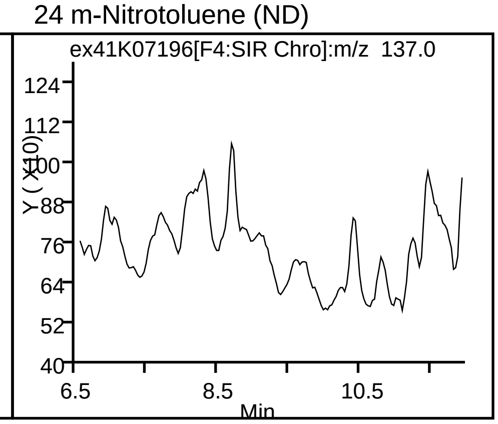
22 o-Nitrotoluene (ND)



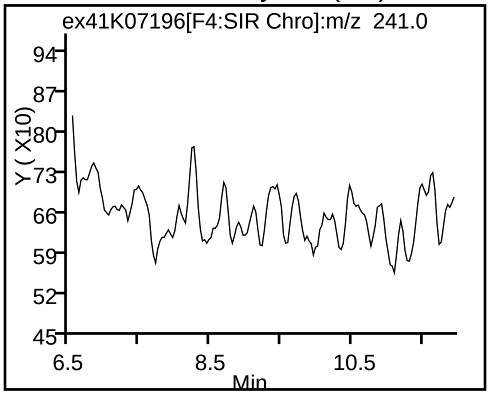
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22000-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 280-94799/1-A

Matrix: Solid | Lab File ID: ex41K07135.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 8330B | Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.54(g) | Date Analyzed: 11/08/2011 22:08

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.095	0.012	0.0054
99-08-1	3-Nitrotoluene	0.024	U	0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.095	0.012	0.0048
99-99-0	4-Nitrotoluene	0.024	U	0.095	0.024	0.010
2691-41-0	HMX	0.012	U	0.095	0.012	0.0055
98-95-3	Nitrobenzene	0.012	U	0.095	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.095	0.012	0.010
78-11-5	PETN	0.012	U	0.095	0.012	0.0049
121-82-4	RDX	0.012	U	0.095	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	97		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07135.d		
Lims ID:	MB 280-94799/1-A	Client ID:	
Inject. Date:	08-Nov-2011 22:08:53	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 280-94799/1-A 280-0002728-131		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	118
Lims Batch ID:	95320	Lims Sample ID:	131
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:48	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		926087	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2964930	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1742132	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.506	-0.034	1.105	819167	96.2			
12 Nitrobenzene										
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.459							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.201	-0.031		5066072	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.839							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										
4	137.0		9.408							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.319							

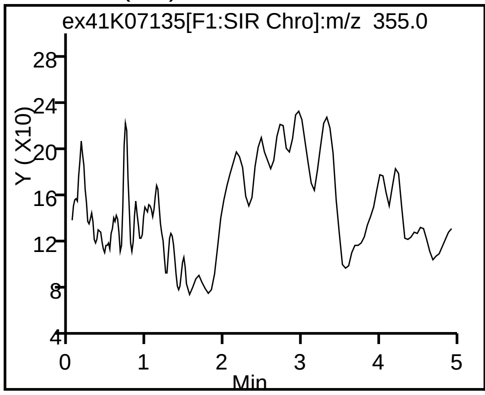
QC Flag Legend

Processing Flags
1 - Missing Peaks

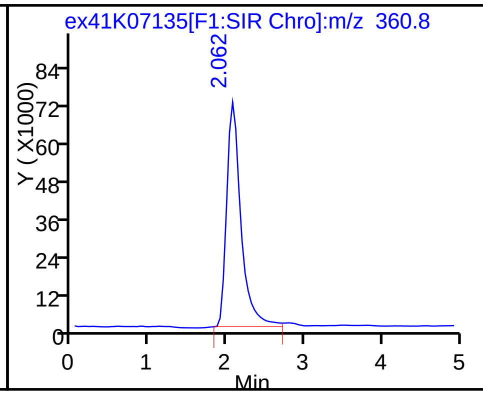
Report Date: 09-Nov-2011 06:55:50 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07135.d

Injection Date:	08-Nov-2011 22:08:53	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	131
Operator ID:		Injection Vol:	40.00 ul

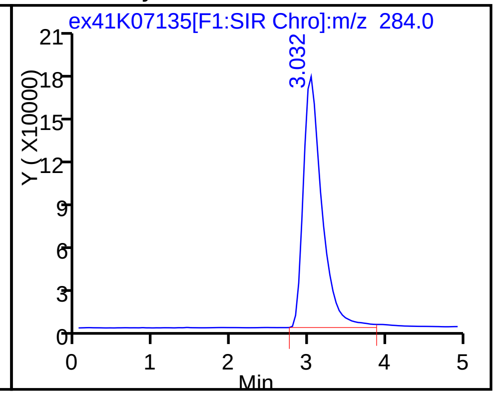
2 HMX (ND)



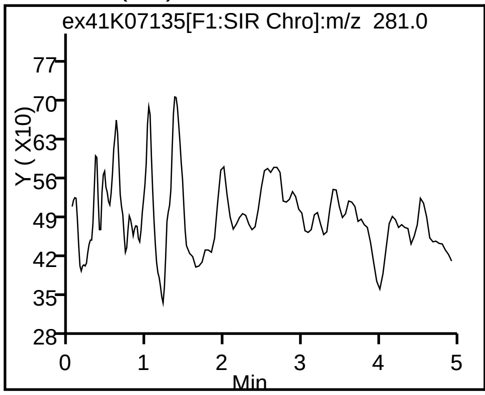
* 1 HMX-13C4



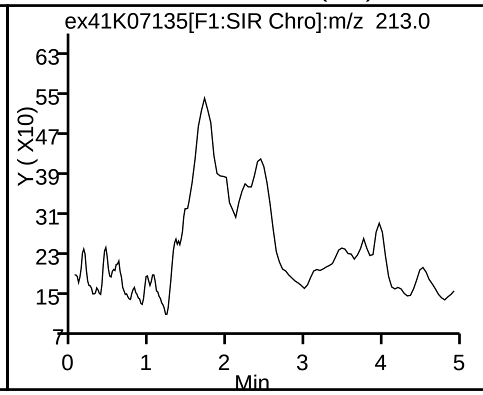
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



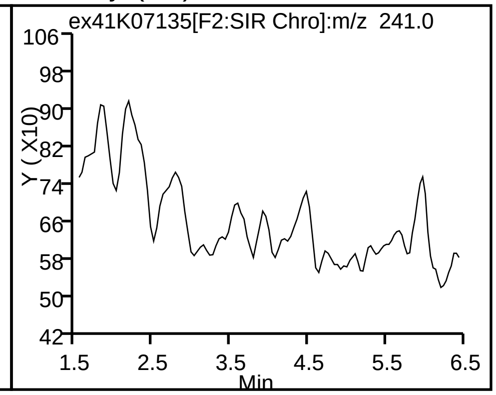
4 RDX (ND)



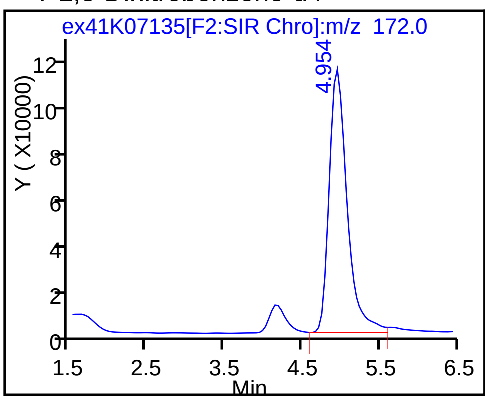
5 1,3,5-Trinitrobenzene (ND)



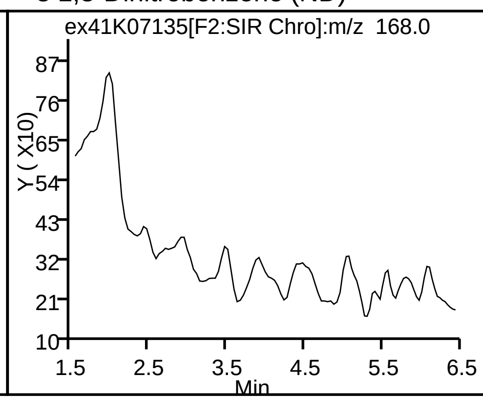
6 Tetryl (ND)



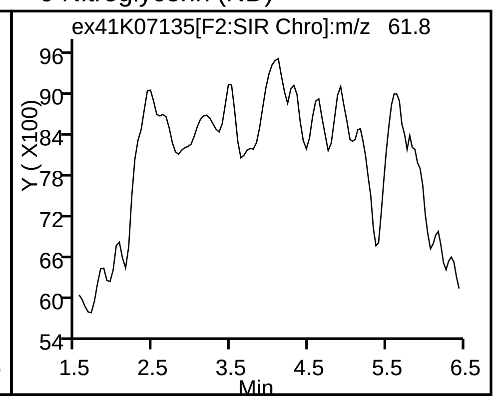
* 7 1,3-Dinitrobenzene-d4



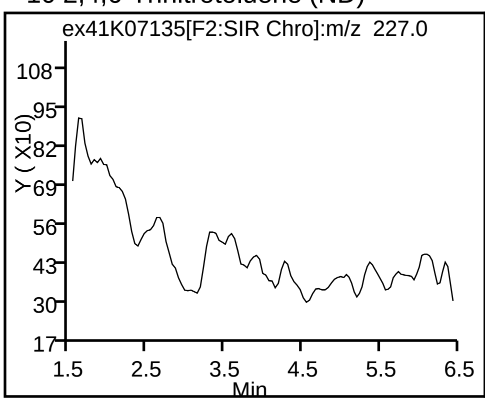
8 1,3-Dinitrobenzene (ND)



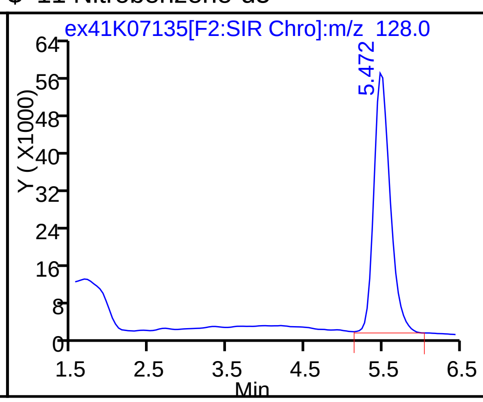
9 Nitroglycerin (ND)



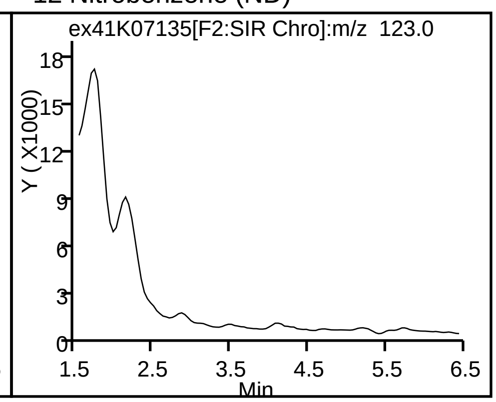
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

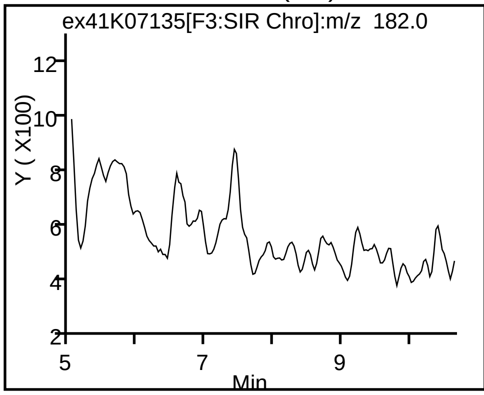


12 Nitrobenzene (ND)

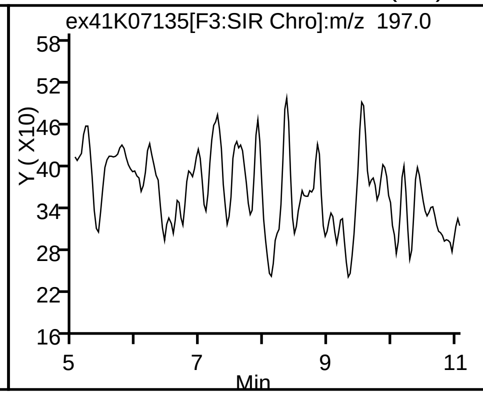


Report Date: 09-Nov-2011 06:55:50 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07135.d

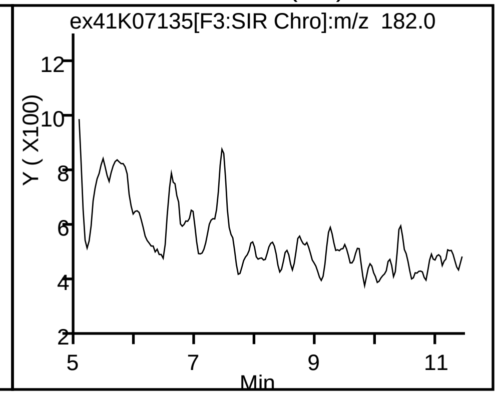
13 3,4-Dinitrotoluene (ND)



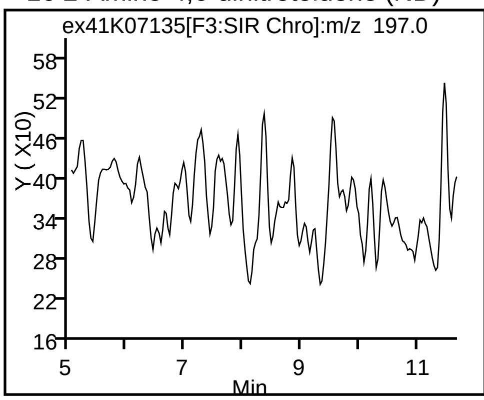
14 4-Amino-2,6-dinitrotoluene (ND)



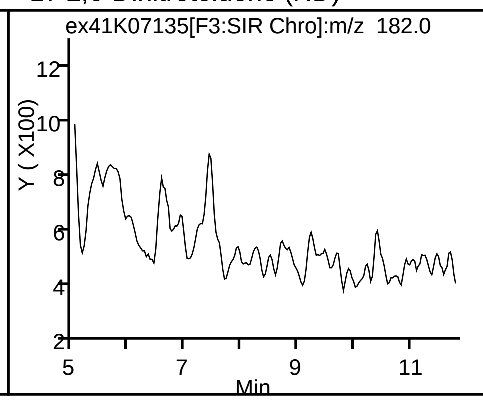
15 2,3-Dinitrotoluene (ND)



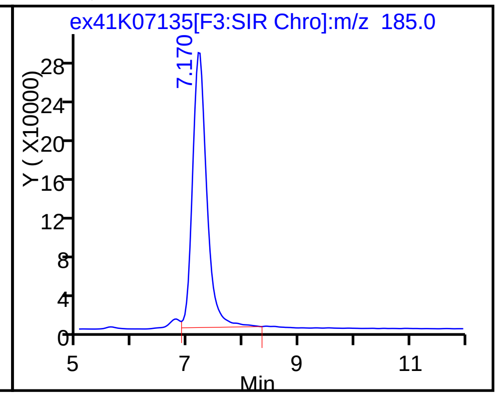
16 2-Amino-4,6-dinitrotoluene (ND)



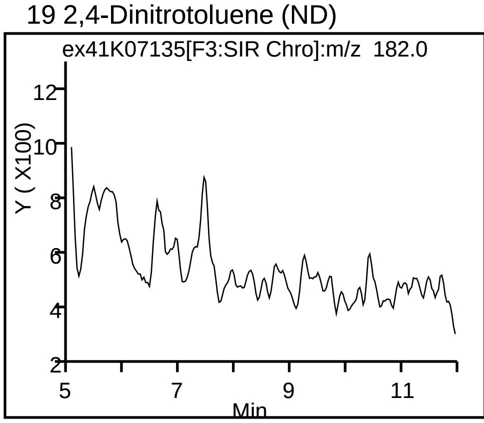
17 2,6-Dinitrotoluene (ND)



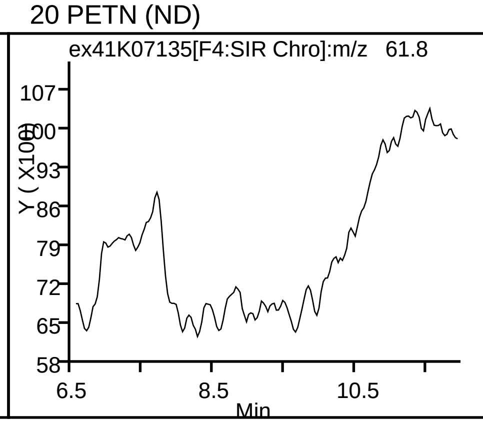
* 18 2,4-dinitrotoluene-d3



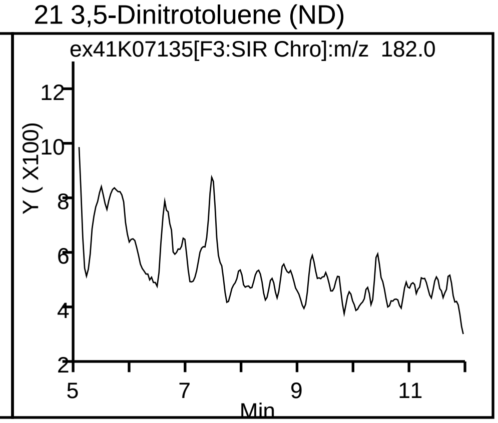
19 2,4-Dinitrotoluene (ND)



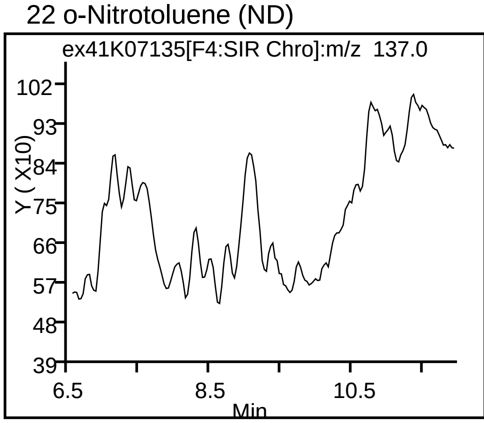
20 PETN (ND)



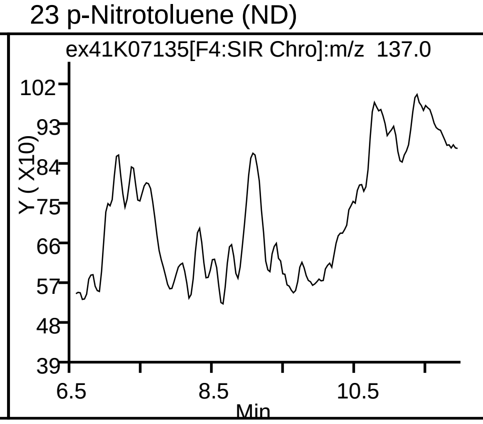
21 3,5-Dinitrotoluene (ND)



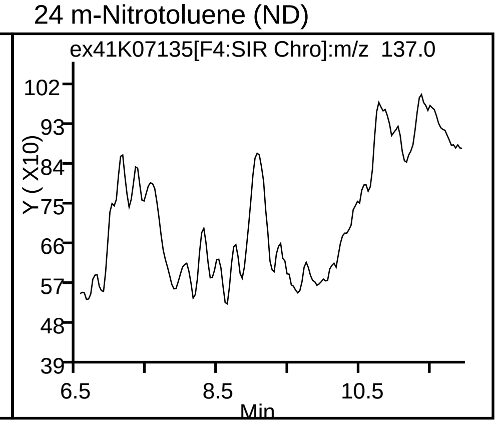
22 o-Nitrotoluene (ND)



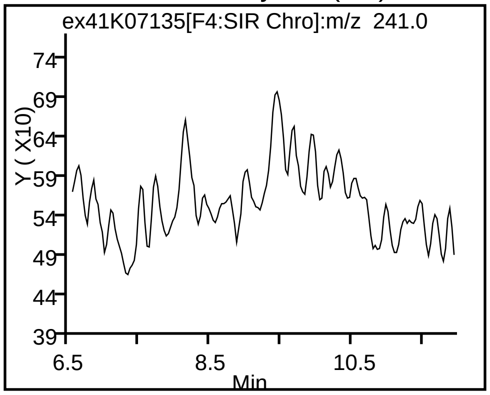
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22000-1

SDG No.:

Client Sample ID: | Lab Sample ID: ICB 280-95155/8

Matrix: Solid | Lab File ID: ex41K07010.d

Analysis Method: 8321B | Date Collected:

Extraction Method: | Date Extracted:

Sample wt/vol: 1(mL) | Date Analyzed: 11/07/2011 17:28

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac | ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95155 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.050	U	10	0.050	1.7
99-65-0	1,3-Dinitrobenzene	0.050	U	10	0.050	1.4
118-96-7	2,4,6-Trinitrotoluene	0.050	U	10	0.050	2.2
121-14-2	2,4-Dinitrotoluene	0.050	U	10	0.050	1.9
606-20-2	2,6-Dinitrotoluene	0.050	U	10	0.050	2.2
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	10	0.050	2.1
88-72-2	2-Nitrotoluene	0.050	U	10	0.050	2.2
99-08-1	3-Nitrotoluene	0.050	U	10	0.050	2.5
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	10	0.050	1.9
99-99-0	4-Nitrotoluene	0.050	U	10	0.050	2.6
2691-41-0	HMX	0.050	U	10	0.050	1.9
98-95-3	Nitrobenzene	0.050	U	10	0.050	3.3
55-63-0	Nitroglycerin	0.050	U	14	0.050	4.5
78-11-5	PETN	0.050	U	10	0.050	1.8
121-82-4	RDX	0.050	U	10	0.050	2.1
479-45-8	Tetryl	0.050	U	10	0.050	2.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5			

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07010.d		
Lims ID:	ICB	Client ID:	
Inject. Date:	07-Nov-2011 17:28:12	Dil. Factor:	1.0000
Sample Type:	ICB		
Sample ID:	11/07/11BLK ICB 280-0002728-008		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	1
Lims Batch ID:	95155	Lims Sample ID:	8
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	08-Nov-2011 12:20:54	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	08-Nov-2011 06:33:39

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		965609	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		3071737	250.0			
4 RDX										
1	281.0		3.032							
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.429							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1771860	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.954							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.337							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.114	398461	44.4			
12 Nitrobenzene										1
2	123.0		5.539							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.021							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.391							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.624							
17 2,6-Dinitrotoluene										1
3	182.0		6.745							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.110	0.030		5968905	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.170							
20 PETN										1
4	61.8		7.616							
21 3,5-Dinitrotoluene										
3	182.0		7.778							
22 o-Nitrotoluene										1
4	137.0		8.162							
23 p-Nitrotoluene										1
4	137.0		8.679							
24 m-Nitrotoluene										1
4	137.0		9.347							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.197							

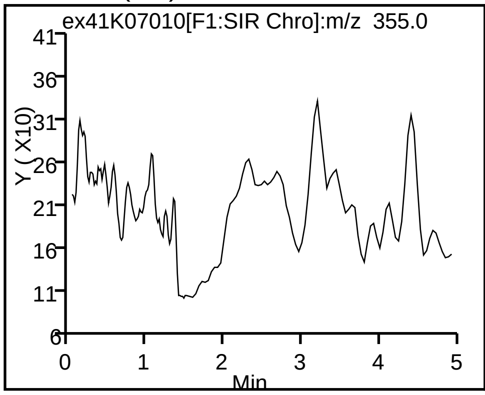
QC Flag Legend

Processing Flags
1 - Missing Peaks

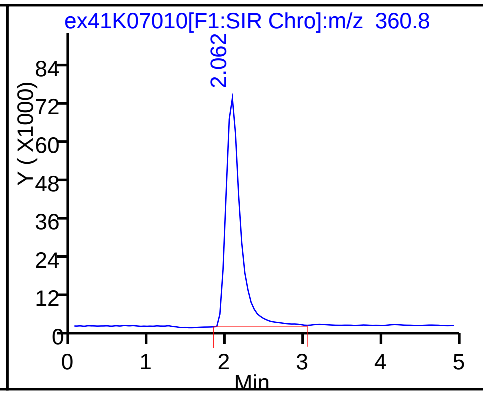
Report Date: 08-Nov-2011 12:20:55 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07010.d

Injection Date:	07-Nov-2011 17:28:12	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95155	Lims Sample ID:	8
Operator ID:		Injection Vol:	40.00 ul

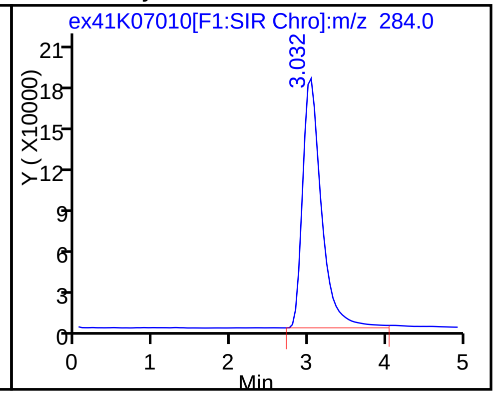
2 HMX (ND)



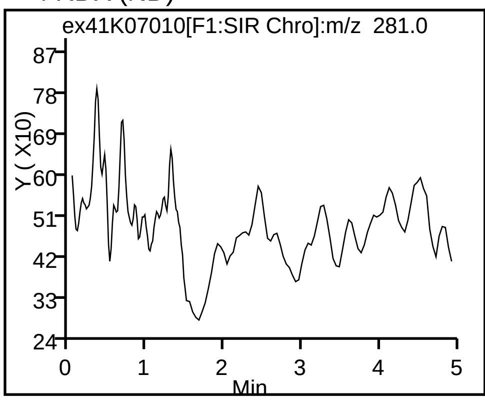
* 1 HMX-13C4



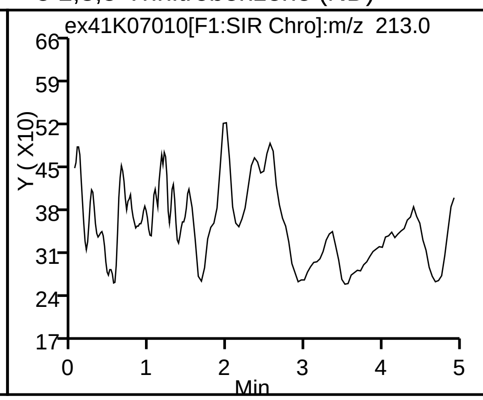
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



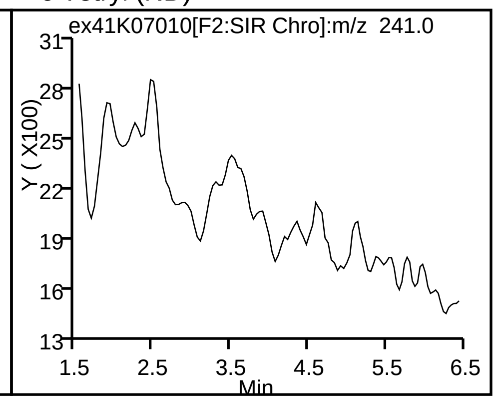
4 RDX (ND)



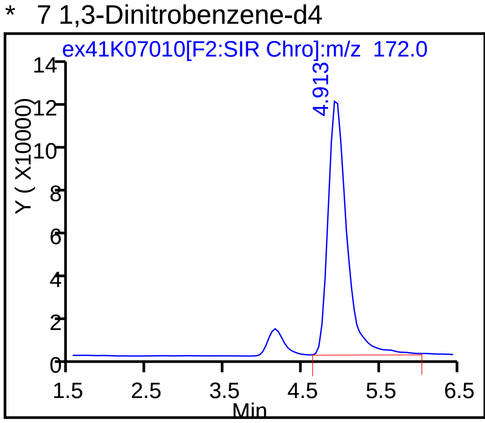
5 1,3,5-Trinitrobenzene (ND)



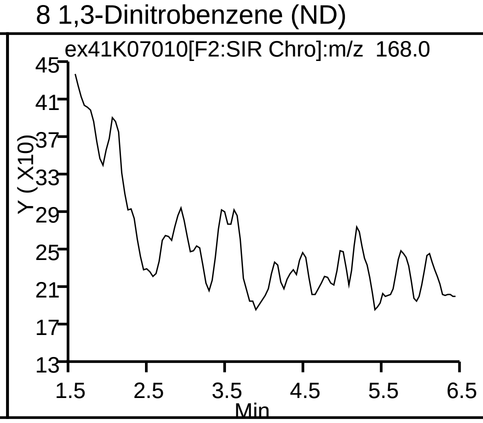
6 Tetryl (ND)



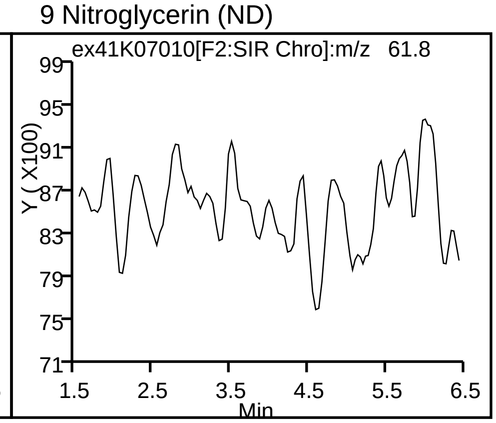
* 7 1,3-Dinitrobenzene-d4



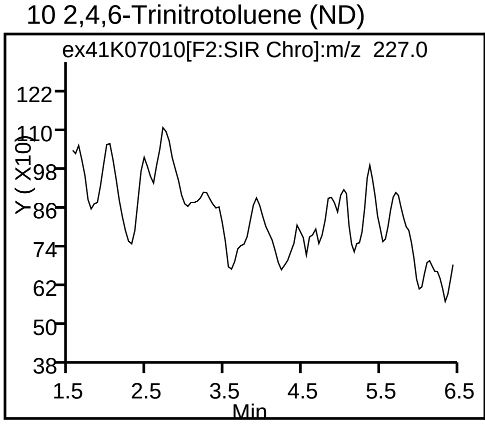
8 1,3-Dinitrobenzene (ND)



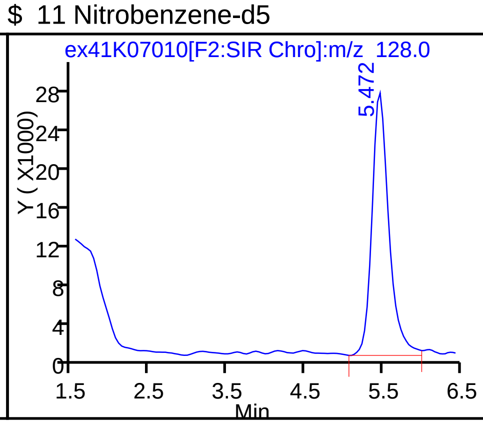
9 Nitroglycerin (ND)



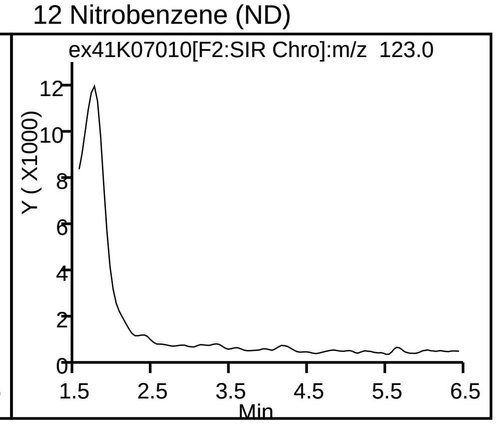
10 2,4,6-Trinitrotoluene (ND)



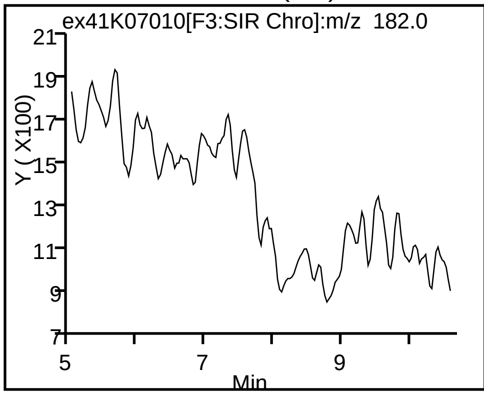
$ 11 Nitrobenzene-d5



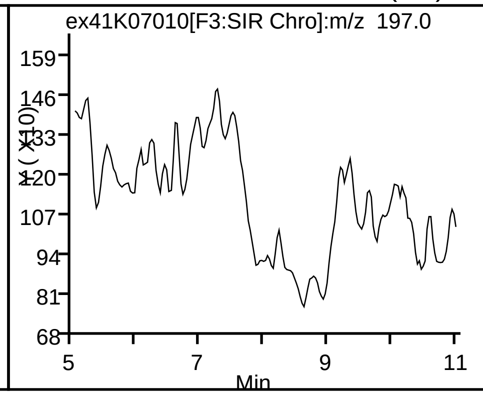
12 Nitrobenzene (ND)



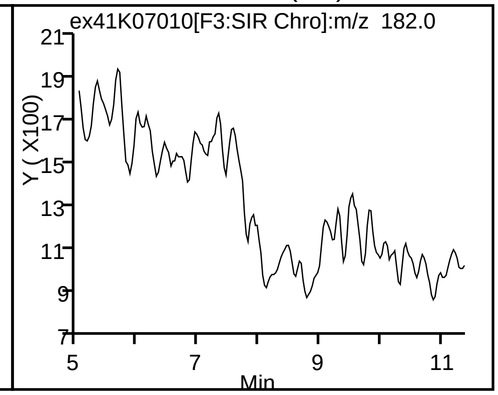
13 3,4-Dinitrotoluene (ND)



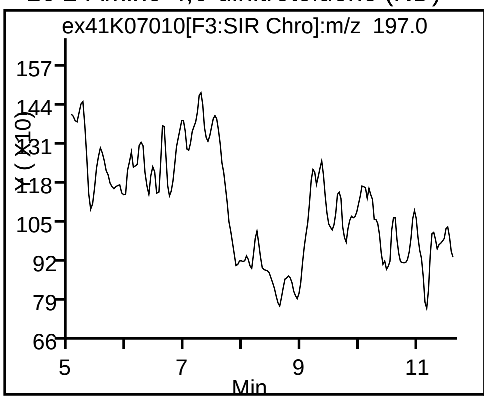
14 4-Amino-2,6-dinitrotoluene (ND)



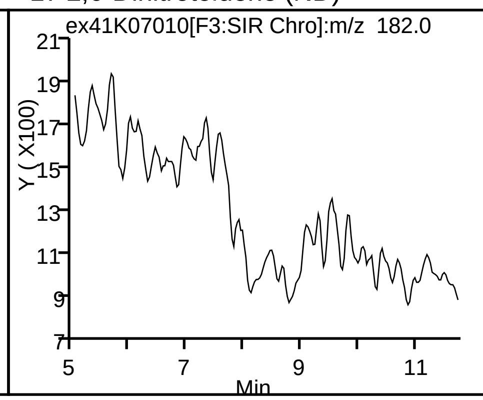
15 2,3-Dinitrotoluene (ND)



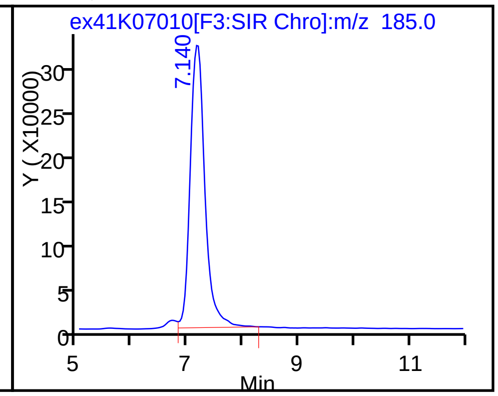
16 2-Amino-4,6-dinitrotoluene (ND)



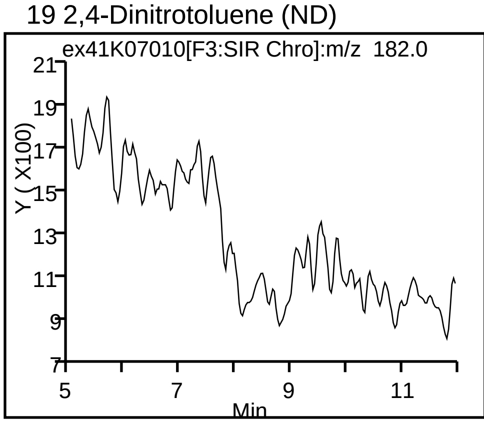
17 2,6-Dinitrotoluene (ND)



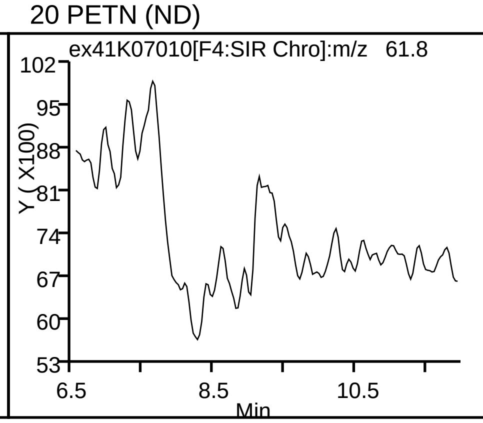
* 18 2,4-dinitrotoluene-d3



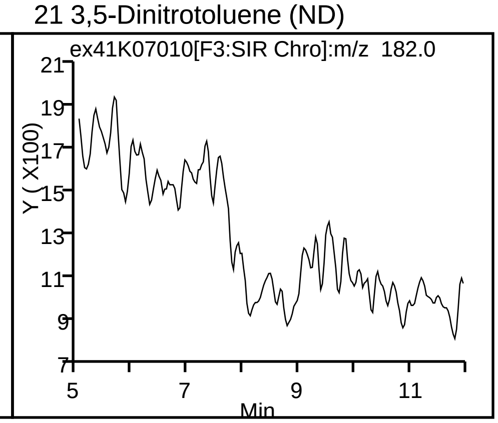
19 2,4-Dinitrotoluene (ND)



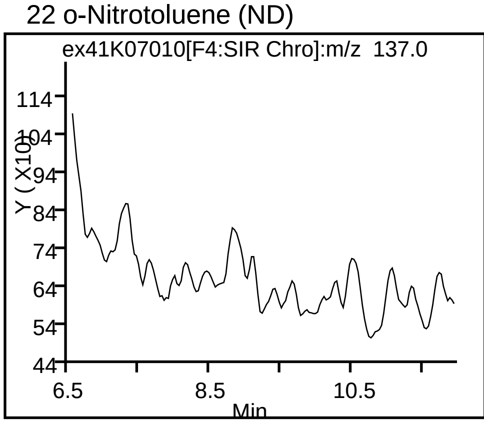
20 PETN (ND)



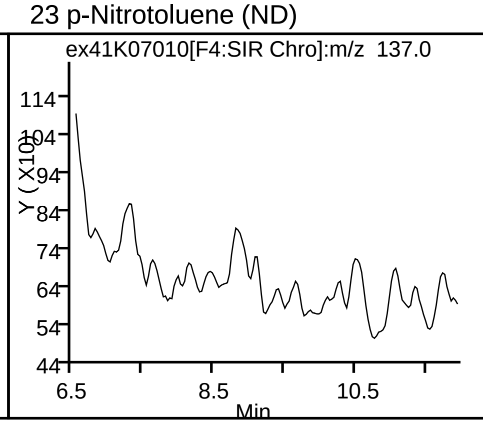
21 3,5-Dinitrotoluene (ND)



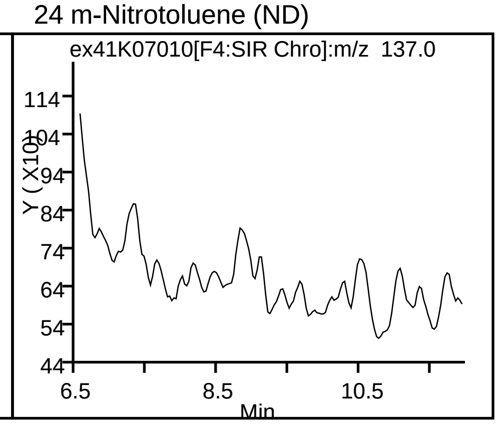
22 o-Nitrotoluene (ND)



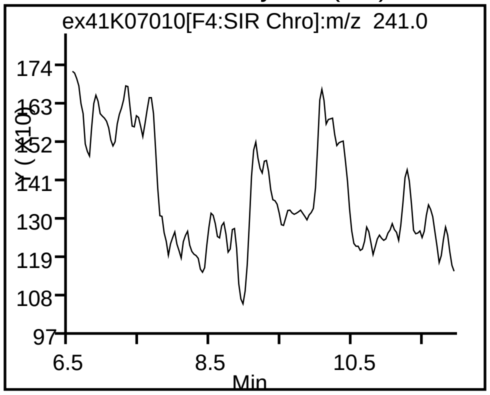
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22000-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-94652/2-A

Matrix: Solid | Lab File ID: ex41K07197.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 8330B | Date Extracted: 11/03/2011 15:20

Sample wt/vol: 10.49(g) | Date Analyzed: 11/09/2011 12:16

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac | ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95468 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.271		0.095	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.351		0.095	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.376		0.095	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.333		0.095	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.321		0.095	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.344		0.095	0.024	0.011
88-72-2	2-Nitrotoluene	0.348		0.095	0.012	0.0055
99-08-1	3-Nitrotoluene	0.342		0.095	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.352		0.095	0.012	0.0049
99-99-0	4-Nitrotoluene	0.355		0.095	0.024	0.010
2691-41-0	HMX	0.338		0.095	0.012	0.0056
98-95-3	Nitrobenzene	0.345		0.095	0.012	0.010
55-63-0	Nitroglycerin	0.282		0.095	0.012	0.010
78-11-5	PETN	0.273		0.095	0.012	0.0049
121-82-4	RDX	0.364		0.095	0.012	0.0041
479-45-8	Tetryl	0.364		0.095	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07197.d
Lims ID: LCS 280-94652/2-A Client ID:
Inject. Date: 09-Nov-2011 12:16:36 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: LCS 280-94652/2-A 280-0002728-192
Misc. Info.: ex41K07 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 38
Lims Batch ID: 95468 Lims Sample ID: 192
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m
Last Update: 09-Nov-2011 14:08:19 Calib Date: 07-Nov-2011 17:14:37
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	557783	88.7			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		736729	250.0			
4 RDX										
1	281.0	3.032	2.991	0.041	1.000	997072	95.5			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2652493	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.718	0.041	1.000	613994	71.2			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	1149513	95.5			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1827045	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.954	0.040	1.016	711671	92.1			
9 Nitroglycerin										
2	61.8	4.994	4.954	0.040	1.016	3670193	73.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	3647020	98.6			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.114	690668	76.7			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	629919	90.6			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.021	0.034	0.848	2524878	92.2			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.624	6.594	0.030	0.928	3339304	90.1			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.745	0.031	0.949	5028170	84.3			

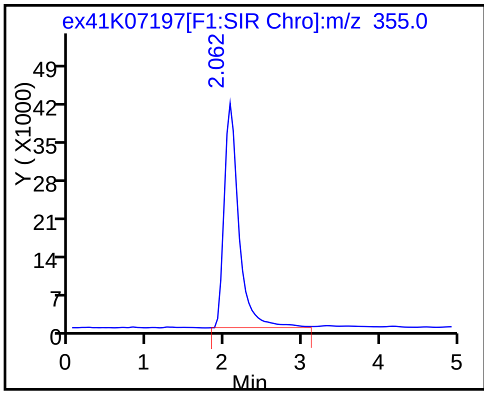
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.110	0.030		5348154	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.170	0.031	1.009	2483122	87.2			
20 PETN										
4	61.8	7.677	7.616	0.061	1.000	4329956	71.7			
22 o-Nitrotoluene										
4	137.0	8.162	8.132	0.030	1.000	1066610	91.2			
23 p-Nitrotoluene										
4	137.0	8.709	8.679	0.030	1.000	946567	93.1			
24 m-Nitrotoluene										
4	137.0	9.377	9.316	0.061	1.000	588202	89.6			

Report Date: 09-Nov-2011 14:08:21 Chrom Revision: 1.2 13-Jul-2011 10:43:06

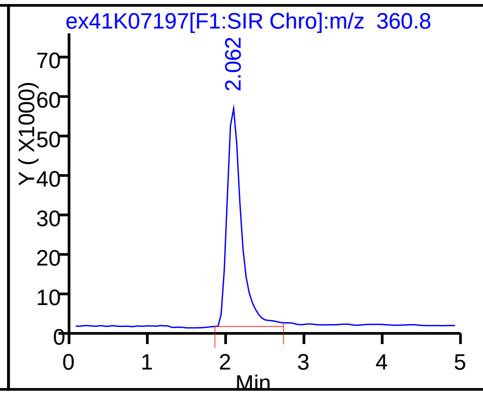
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07197.d

Injection Date:	09-Nov-2011 12:16:36	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95468	Lims Sample ID:	192
Operator ID:		Injection Vol:	40.00 ul

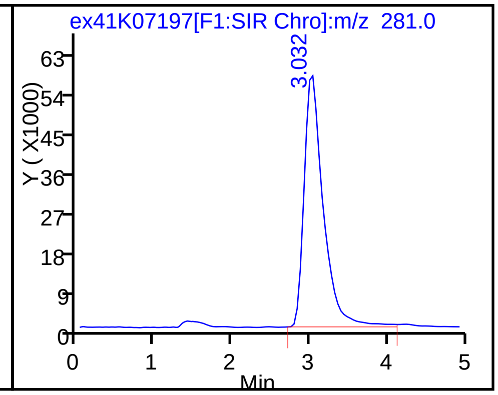
2 HMX



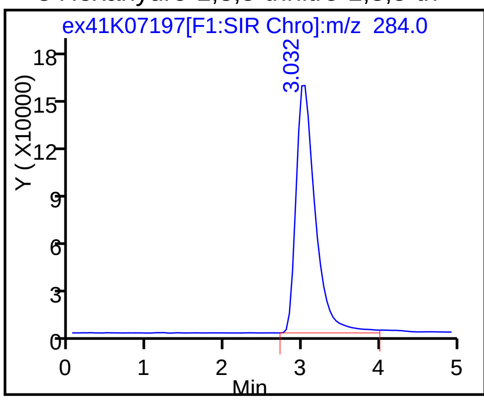
* 1 HMX-13C4



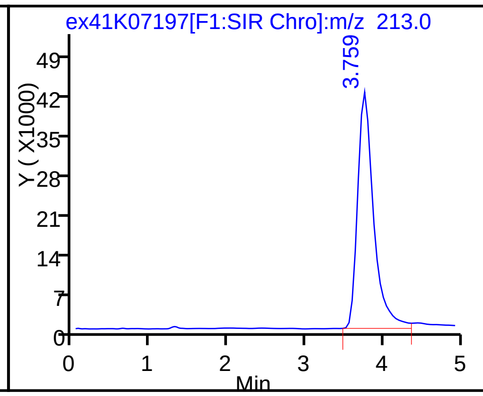
4 RDX



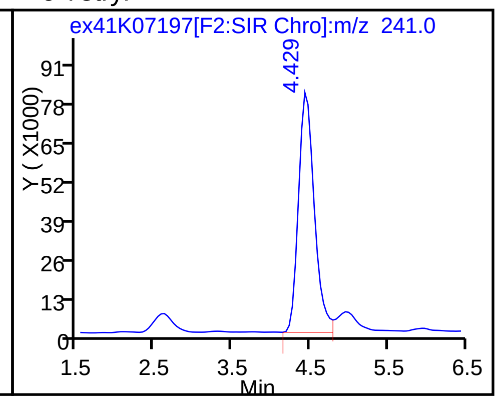
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



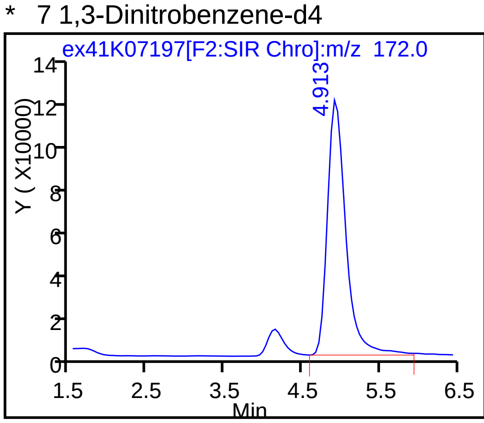
5 1,3,5-Trinitrobenzene



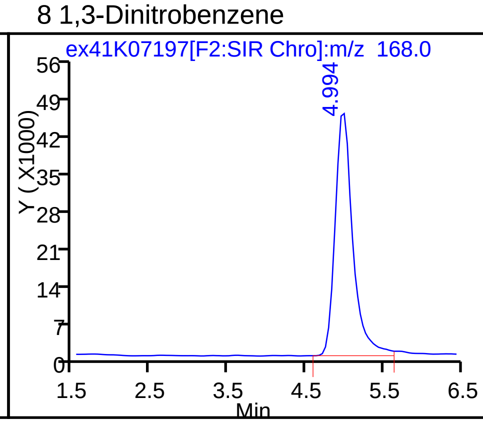
6 Tetryl



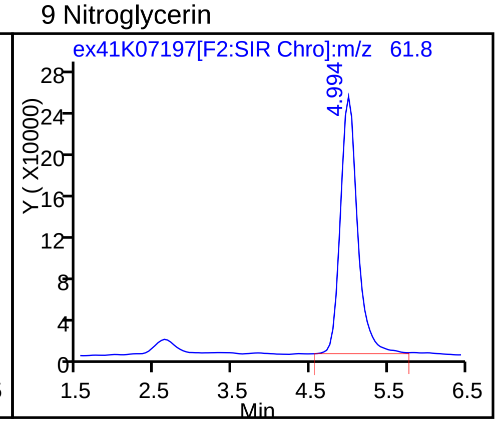
* 7 1,3-Dinitrobenzene-d4



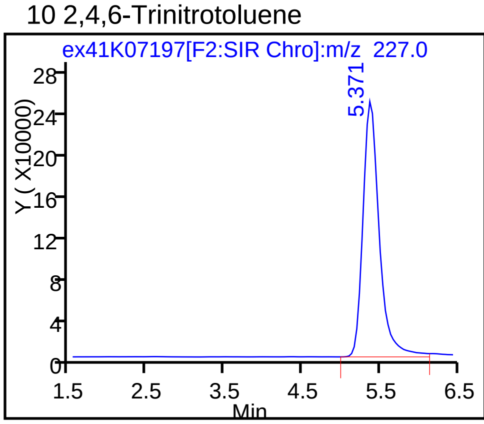
8 1,3-Dinitrobenzene



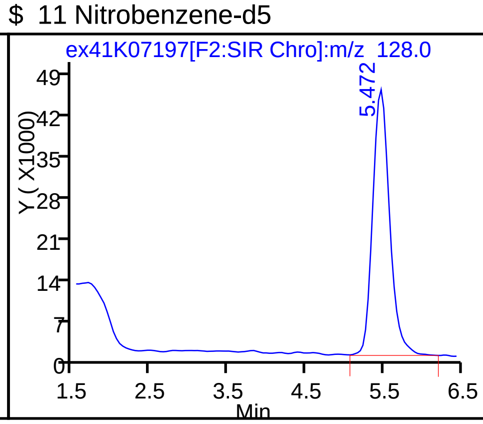
9 Nitroglycerin



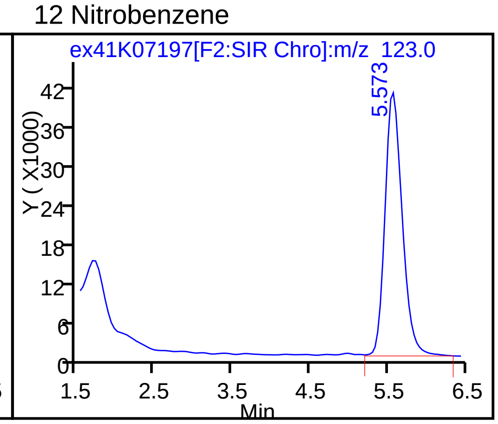
10 2,4,6-Trinitrotoluene



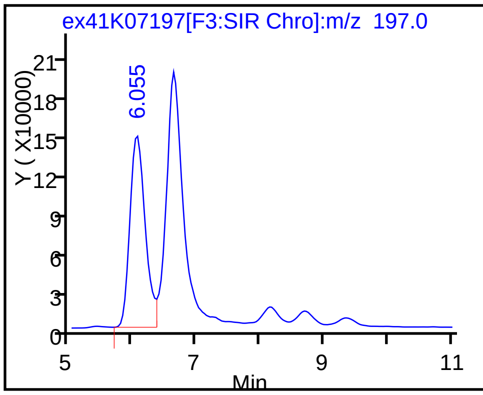
$ 11 Nitrobenzene-d5



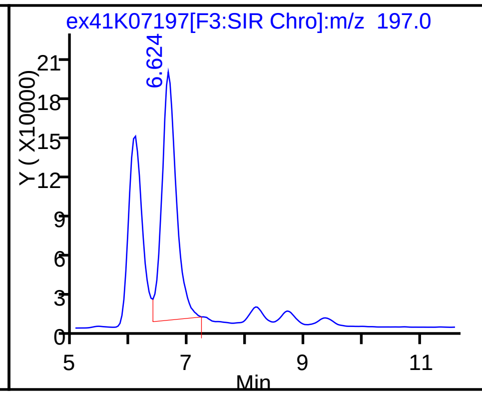
12 Nitrobenzene



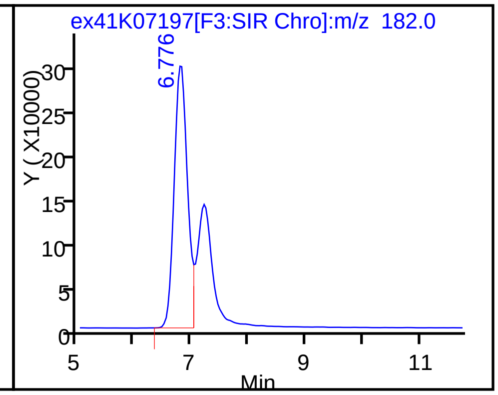
14 4-Amino-2,6-dinitrotoluene



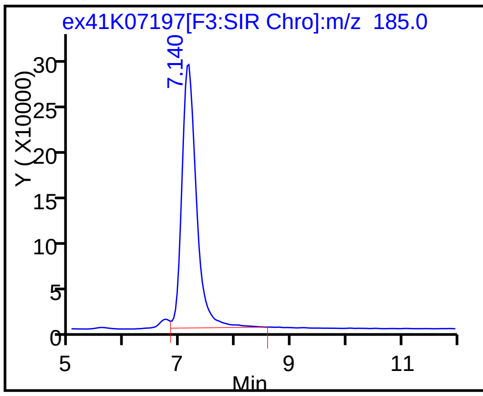
16 2-Amino-4,6-dinitrotoluene



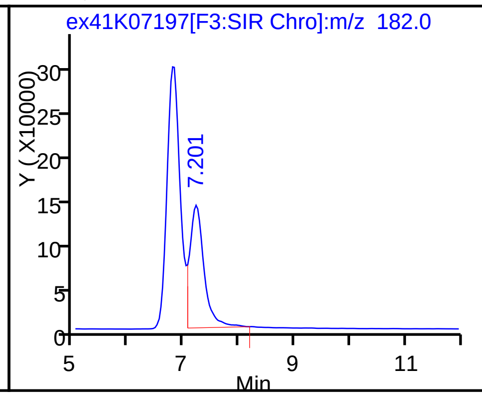
17 2,6-Dinitrotoluene



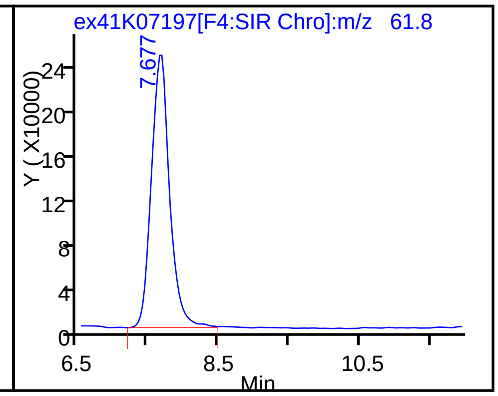
* 18 2,4-dinitrotoluene-d3



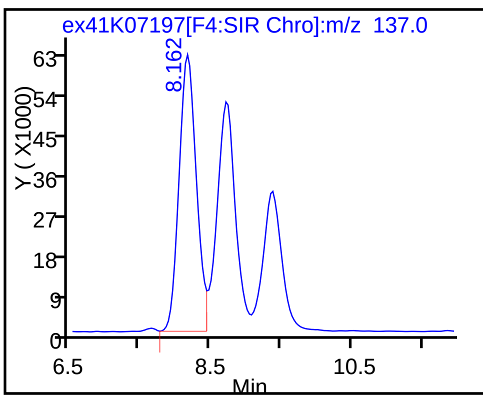
19 2,4-Dinitrotoluene



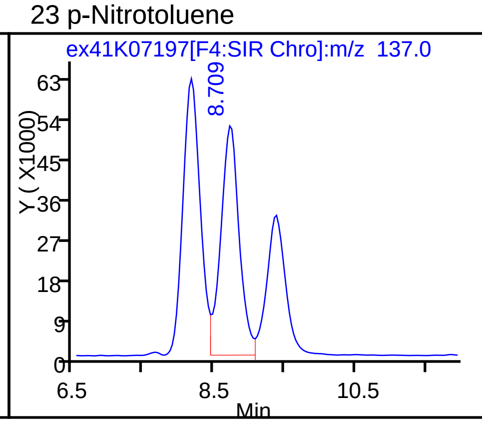
20 PETN



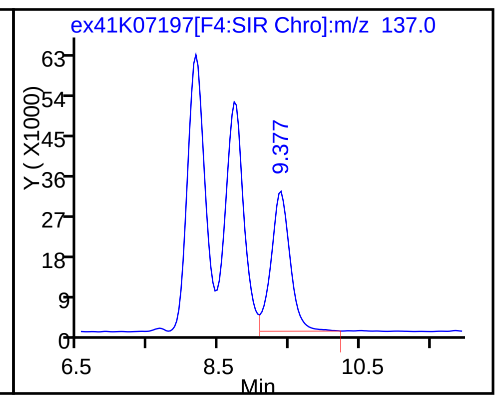
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22000-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-94799/2-A

Matrix: Solid | Lab File ID: ex41K07136.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 8330B | Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.96(g) | Date Analyzed: 11/08/2011 22:22

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac | ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.301		0.091	0.023	0.011
99-65-0	1,3-Dinitrobenzene	0.368		0.091	0.011	0.0065
118-96-7	2,4,6-Trinitrotoluene	0.225		0.091	0.011	0.0046
121-14-2	2,4-Dinitrotoluene	0.353		0.091	0.011	0.0075
606-20-2	2,6-Dinitrotoluene	0.307		0.091	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.397		0.091	0.023	0.011
88-72-2	2-Nitrotoluene	0.297		0.091	0.011	0.0052
99-08-1	3-Nitrotoluene	0.295		0.091	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.323		0.091	0.011	0.0047
99-99-0	4-Nitrotoluene	0.292		0.091	0.023	0.010
2691-41-0	HMX	0.343		0.091	0.011	0.0053
98-95-3	Nitrobenzene	0.350		0.091	0.011	0.0099
55-63-0	Nitroglycerin	0.286		0.091	0.011	0.0096
78-11-5	PETN	0.291		0.091	0.011	0.0047
121-82-4	RDX	0.353		0.091	0.011	0.0039
479-45-8	Tetryl	0.197		0.091	0.011	0.0069

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07136.d		
Lims ID:	LCS 280-94799/2-A	Client ID:	
Inject. Date:	08-Nov-2011 22:22:51	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS 280-94799/2-A 280-0002728-132		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	119
Lims Batch ID:	95320	Lims Sample ID:	132
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:48	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

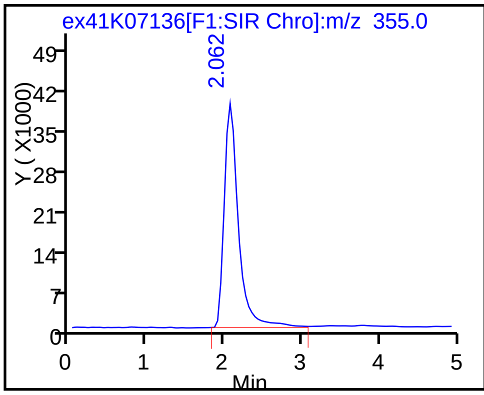
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	504567	94.0			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		628622	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2447204	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	932755	96.8			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	699730	82.4			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	627828	53.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1796843	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	765692	100.7			
9 Nitroglycerin										
2	61.8	5.035	5.034	0.001	1.016	3834833	78.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	2240041	61.6			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	754299	85.6			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	654917	95.8			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.845	2582505	88.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.685	-0.031	0.924	4298679	108.8			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.806	0.031	0.949	5336883	84.1			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5692750	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.261	0.001	1.008	2931992	96.6			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	5082983	79.7			
22 o-Nitrotoluene										
4	137.0	8.223	8.223	0.000	1.000	1013998	81.5			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	863857	79.9			
24 m-Nitrotoluene										
4	137.0	9.438	9.408	0.030	1.000	564842	80.9			

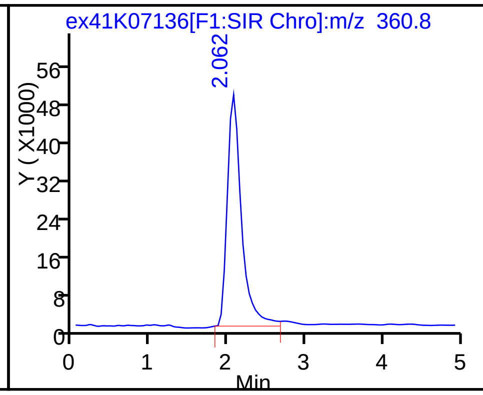
Report Date: 09-Nov-2011 06:55:50 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07136.d

Injection Date:	08-Nov-2011 22:22:51	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	132
Operator ID:		Injection Vol:	40.00 ul

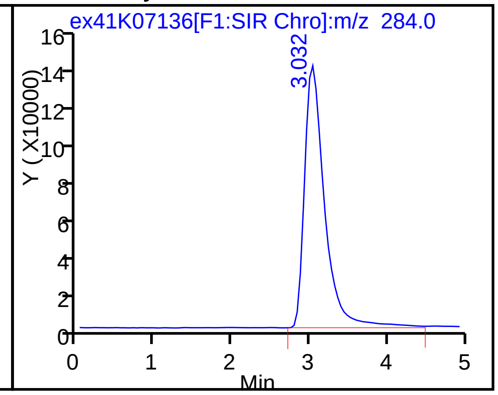
2 HMX



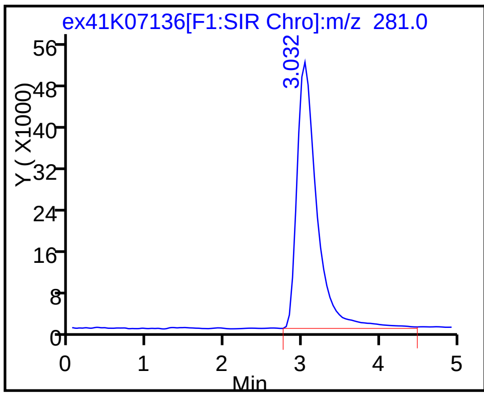
* 1 HMX-13C4



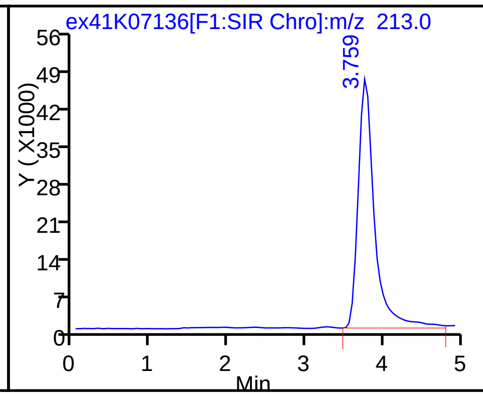
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



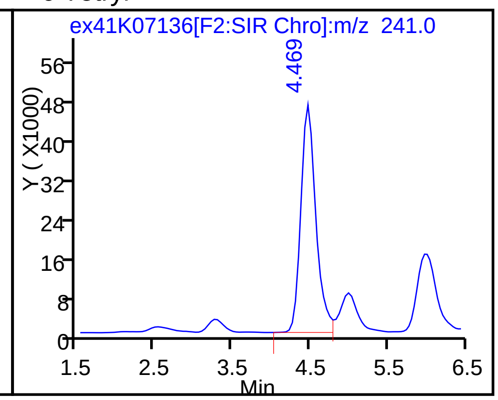
4 RDX



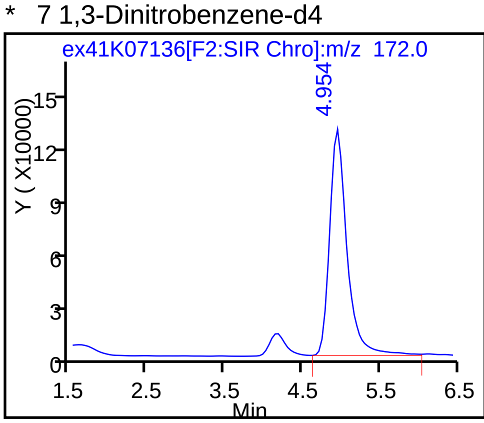
5 1,3,5-Trinitrobenzene



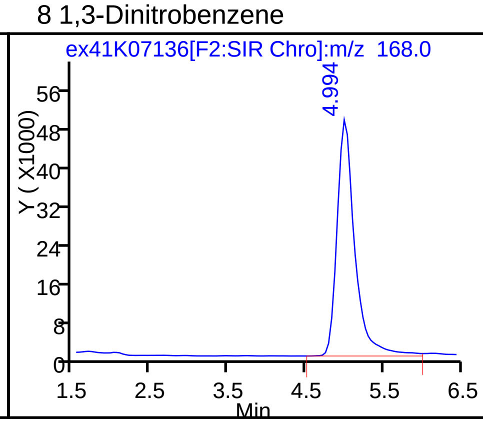
6 Tetryl



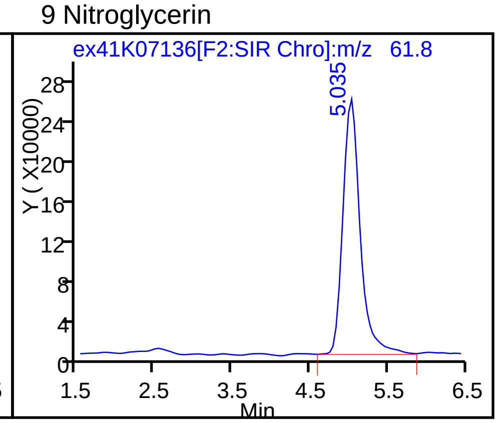
* 7 1,3-Dinitrobenzene-d4



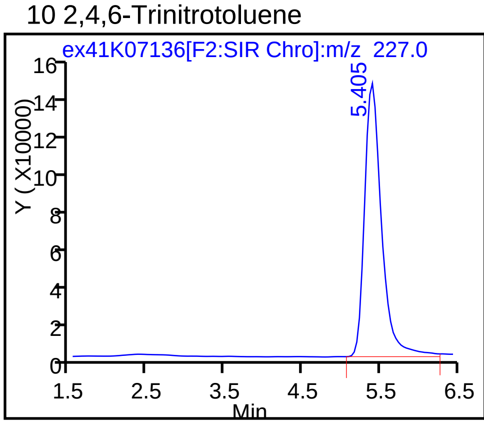
8 1,3-Dinitrobenzene



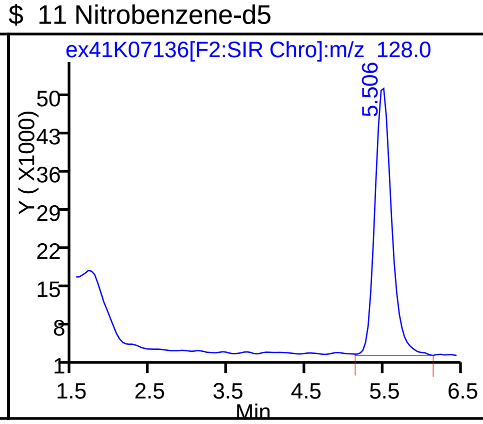
9 Nitroglycerin



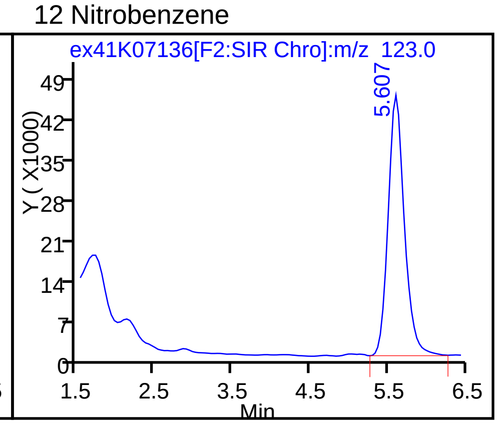
10 2,4,6-Trinitrotoluene



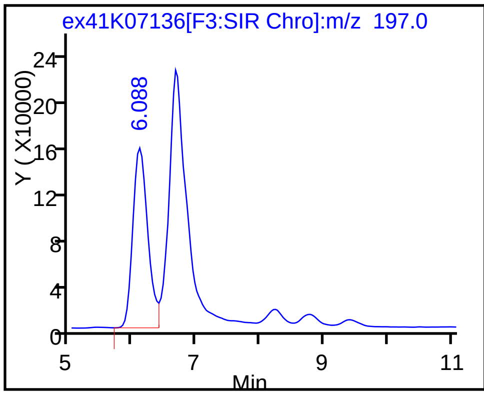
$ 11 Nitrobenzene-d5



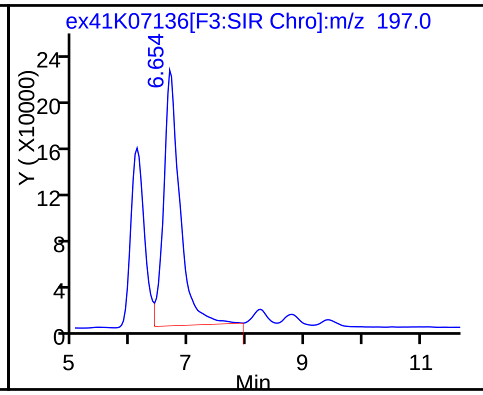
12 Nitrobenzene



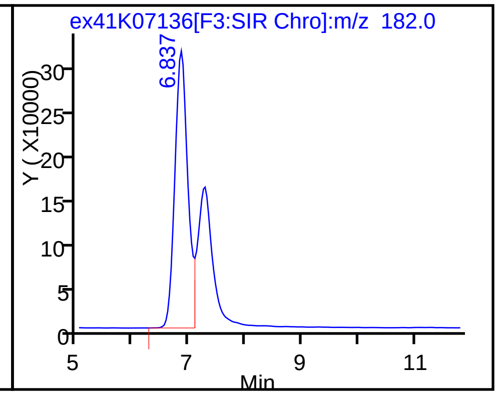
14 4-Amino-2,6-dinitrotoluene



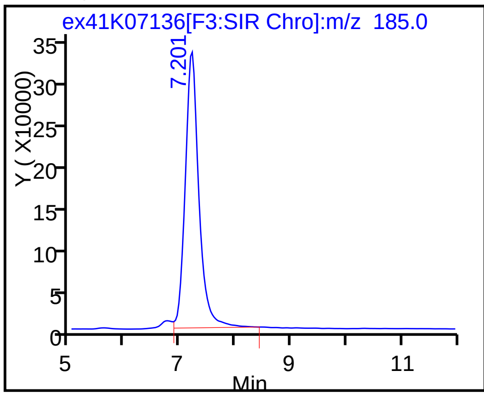
16 2-Amino-4,6-dinitrotoluene



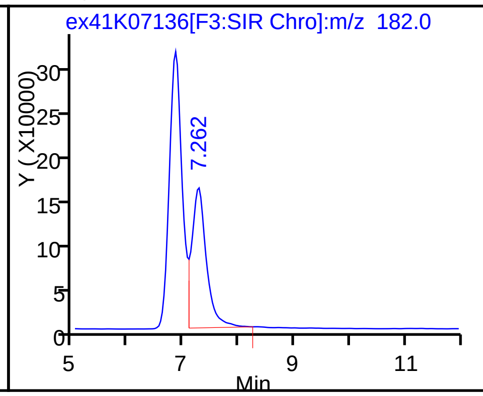
17 2,6-Dinitrotoluene



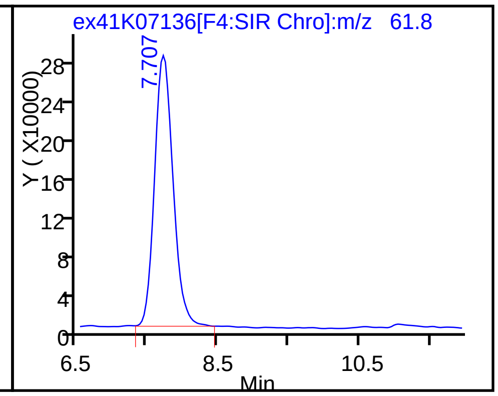
* 18 2,4-dinitrotoluene-d3



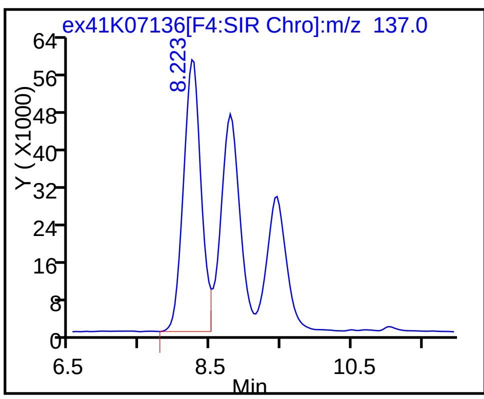
19 2,4-Dinitrotoluene



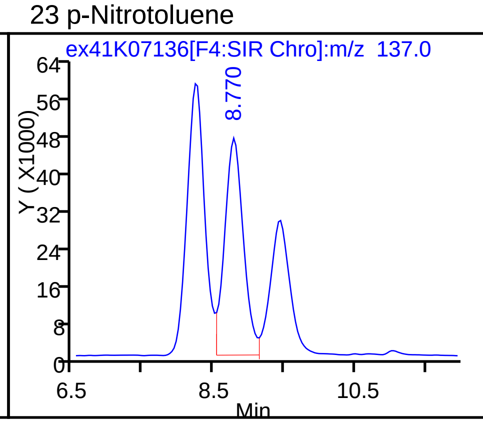
20 PETN



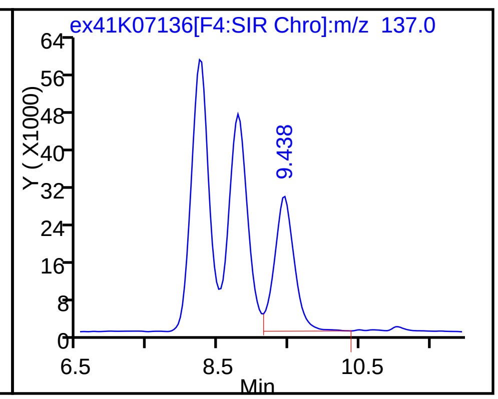
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP43 SD013 MS | Lab Sample ID: 280-22000-13 MS

Matrix: Solid | Lab File ID: ex41K07151.d

Analysis Method: 8321B | Date Collected: 10/22/2011 10:40

Extraction Method: 8330B | Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.02(g) | Date Analyzed: 11/09/2011 01:46

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.303		0.10	0.025	0.013
99-65-0	1,3-Dinitrobenzene	0.403		0.10	0.012	0.0071
118-96-7	2,4,6-Trinitrotoluene	0.241		0.10	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.357		0.10	0.012	0.0082
606-20-2	2,6-Dinitrotoluene	0.351		0.10	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.460		0.10	0.025	0.012
88-72-2	2-Nitrotoluene	0.418		0.10	0.012	0.0057
99-08-1	3-Nitrotoluene	0.432		0.10	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.412		0.10	0.012	0.0051
99-99-0	4-Nitrotoluene	0.441		0.10	0.025	0.011
2691-41-0	HMX	0.332		0.10	0.012	0.0058
98-95-3	Nitrobenzene	0.376		0.10	0.012	0.011
55-63-0	Nitroglycerin	0.329		0.10	0.012	0.010
78-11-5	PETN	0.317		0.10	0.012	0.0051
121-82-4	RDX	0.373		0.10	0.012	0.0043
479-45-8	Tetryl	0.219		0.10	0.012	0.0076

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07151.d		
Lims ID:	280-22000-B-13-D MS	Client ID:	
Inject. Date:	09-Nov-2011 01:46:36	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	280-22000-B-13-D MS 280-0002728-147		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	22
Lims Batch ID:	95320	Lims Sample ID:	147
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:57	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	559916	83.1			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		789386	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2717443	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	999923	93.5			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	658092	76.0			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	652443	54.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1831228	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	781853	100.9			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	4103446	82.3			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	2237725	60.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	754460	83.9			
12 Nitrobenzene										
2	123.0	5.607	5.573	0.034	1.132	656972	94.3			
13 3,4-Dinitrotoluene										
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.055	0.033	0.845	2640464	103.2			
15 2,3-Dinitrotoluene										
3	182.0		6.459							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.654	0.031	0.928	4000176	115.3			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.806	0.031	0.949	4902900	88.0			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.170	0.031		4995855	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.231	0.030	1.008	2380430	89.5			
20 PETN										
4	61.8	7.737	7.677	0.060	1.000	4446509	79.4			
21 3,5-Dinitrotoluene										
3	182.0		7.839							
22 o-Nitrotoluene										
4	137.0	8.223	8.223	0.000	1.000	1147553	104.8			
23 p-Nitrotoluene										
4	137.0	8.800	8.739	0.061	1.000	1050497	110.4			
24 m-Nitrotoluene										
4	137.0	9.438	9.408	0.030	1.000	665252	108.2			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.288							

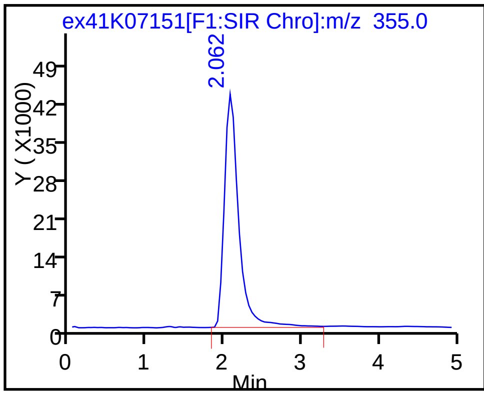
QC Flag Legend

Processing Flags
1 - Missing Peaks

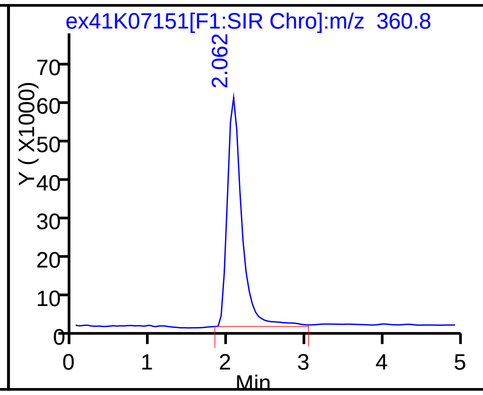
Report Date: 09-Nov-2011 06:56:01 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07151.d

Injection Date:	09-Nov-2011 01:46:36	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	147
Operator ID:		Injection Vol:	40.00 ul

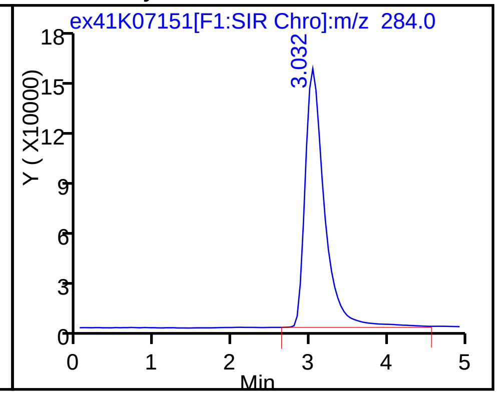
2 HMX



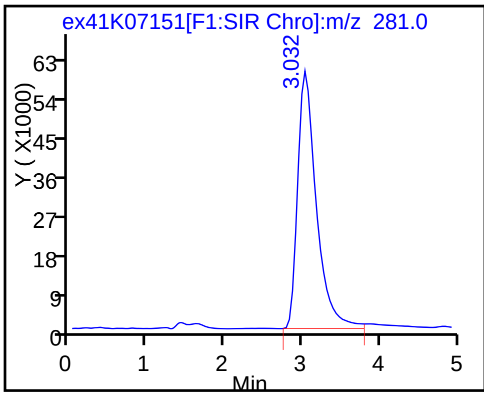
* 1 HMX-13C4



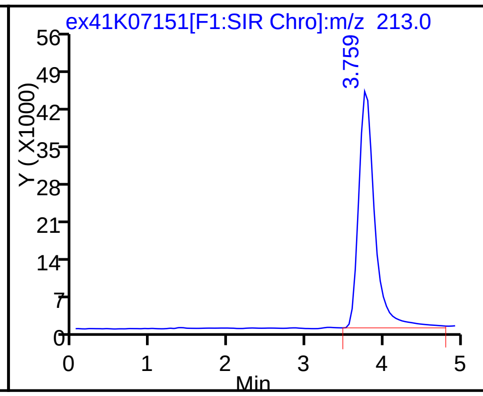
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



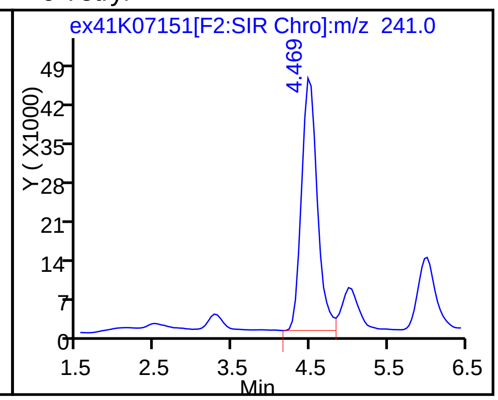
4 RDX



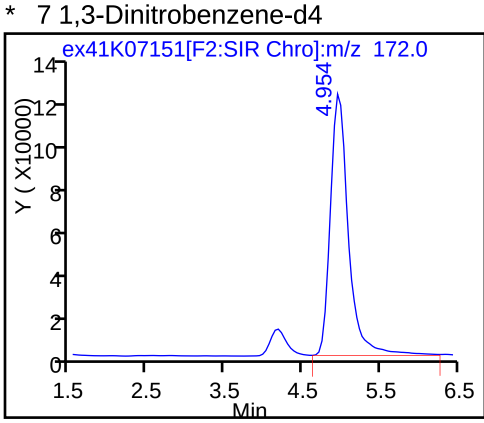
5 1,3,5-Trinitrobenzene



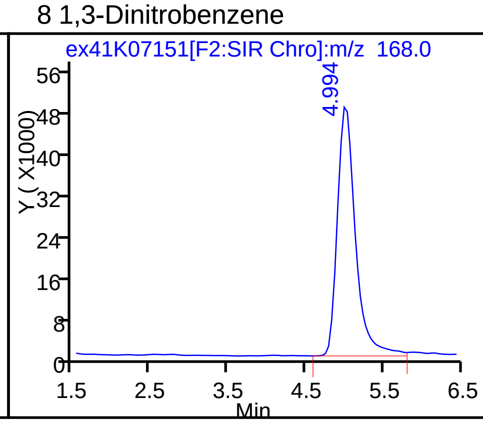
6 Tetryl



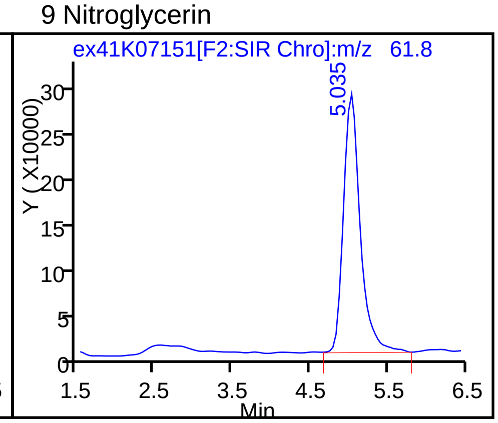
* 7 1,3-Dinitrobenzene-d4



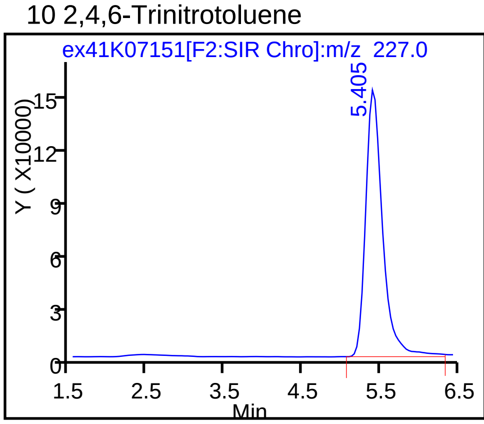
8 1,3-Dinitrobenzene



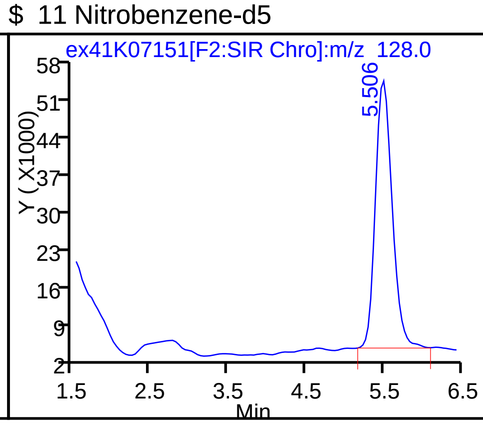
9 Nitroglycerin



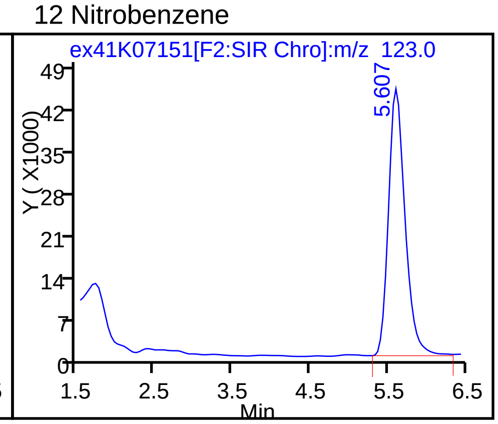
10 2,4,6-Trinitrotoluene



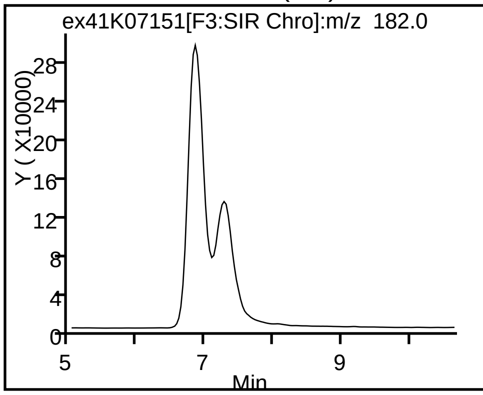
$ 11 Nitrobenzene-d5



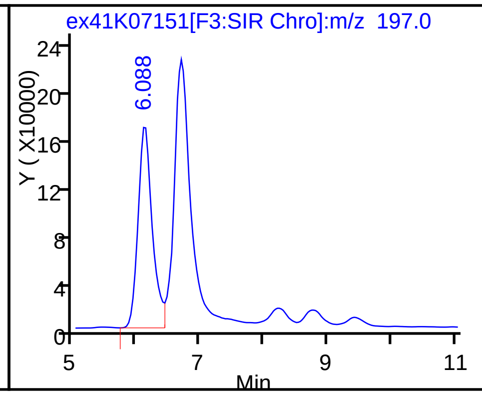
12 Nitrobenzene



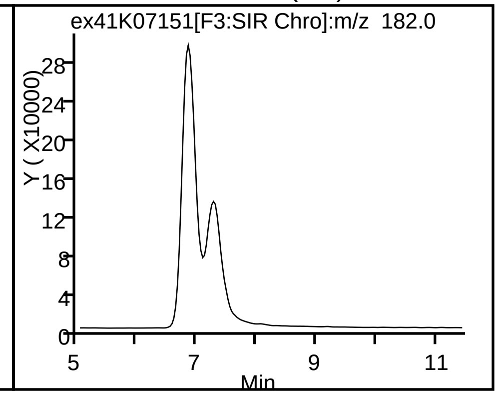
13 3,4-Dinitrotoluene (ND)



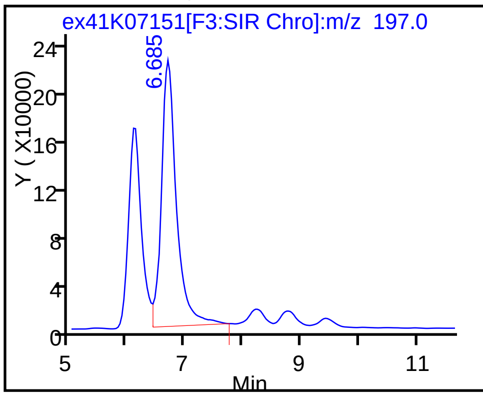
14 4-Amino-2,6-dinitrotoluene



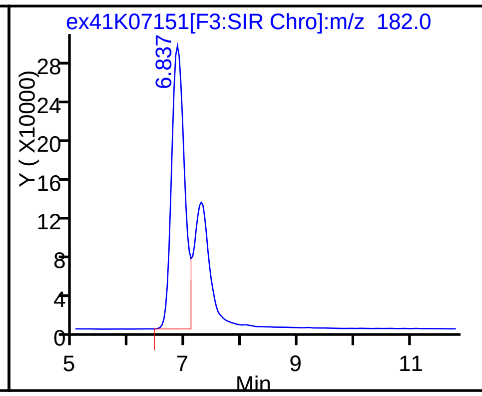
15 2,3-Dinitrotoluene (ND)



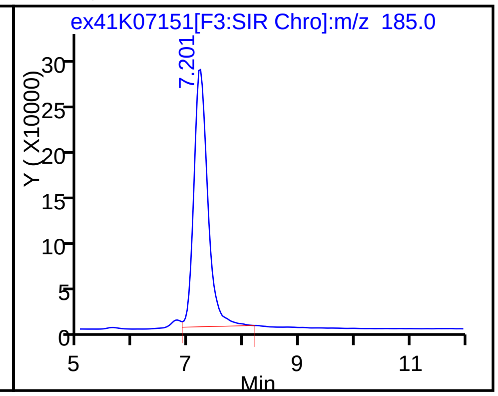
16 2-Amino-4,6-dinitrotoluene



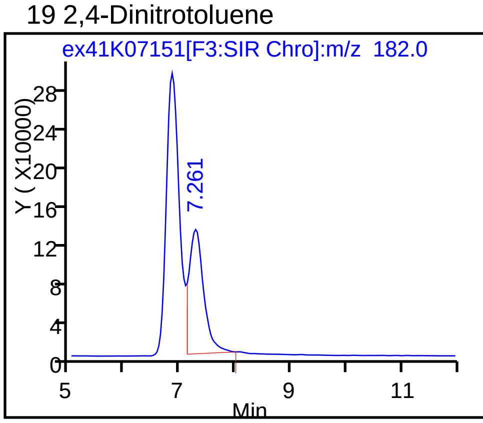
17 2,6-Dinitrotoluene



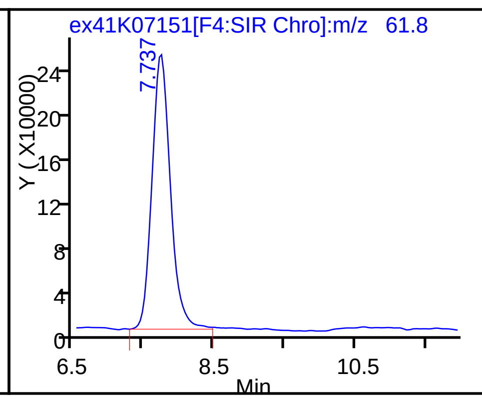
* 18 2,4-dinitrotoluene-d3



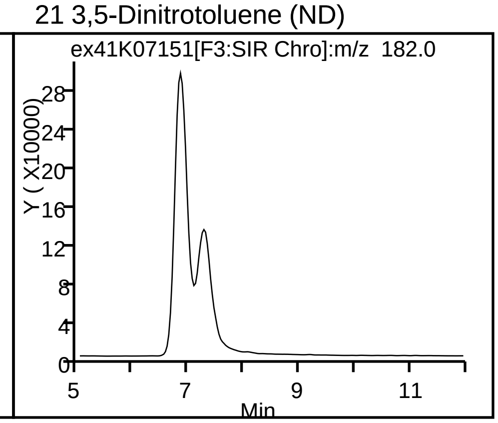
19 2,4-Dinitrotoluene



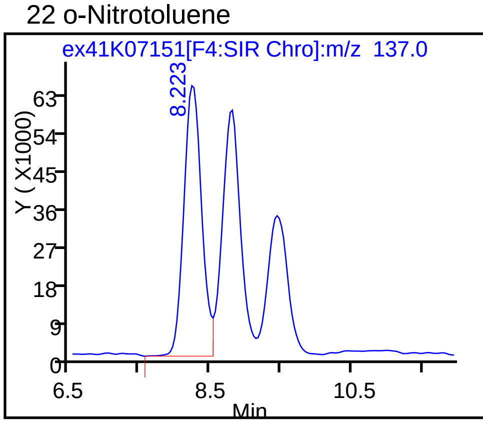
20 PETN



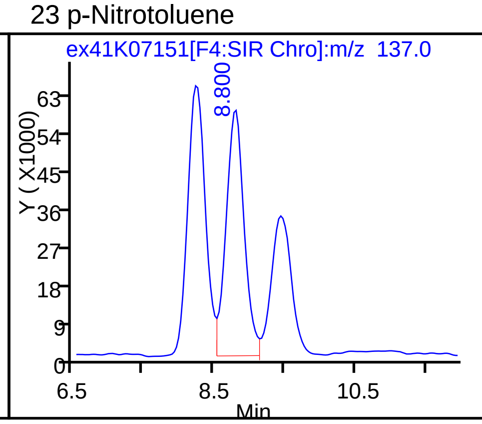
21 3,5-Dinitrotoluene (ND)



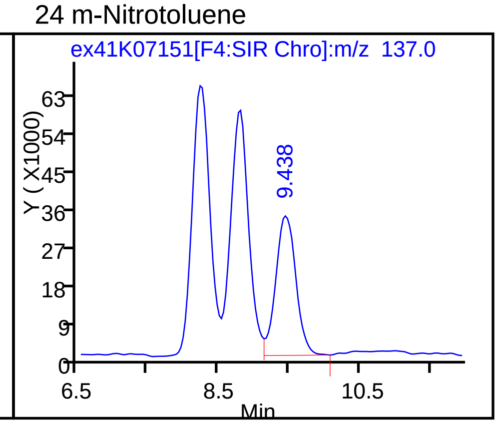
22 o-Nitrotoluene



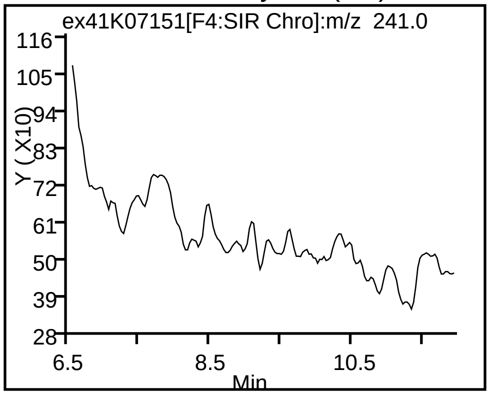
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Client Sample ID: MG35 SB124A MS   Lab Sample ID: 280-22000-19 MS

Matrix: Solid   Lab File ID: ex41K07200.d

Analysis Method: 8321B   Date Collected: 10/20/2011 11:25

Extraction Method: 8330B   Date Extracted: 11/03/2011 15:20

Sample wt/vol: 10.13(g)   Date Analyzed: 11/09/2011 12:57

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95468   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.308		0.099	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.377		0.099	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.338		0.099	0.012	0.0050
121-14-2	2,4-Dinitrotoluene	0.374		0.099	0.012	0.0081
606-20-2	2,6-Dinitrotoluene	0.347		0.099	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.394		0.099	0.025	0.012
88-72-2	2-Nitrotoluene	0.346		0.099	0.012	0.0057
99-08-1	3-Nitrotoluene	0.339		0.099	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.337		0.099	0.012	0.0050
99-99-0	4-Nitrotoluene	0.350		0.099	0.025	0.011
2691-41-0	HMX	0.309		0.099	0.012	0.0058
98-95-3	Nitrobenzene	0.348		0.099	0.012	0.011
55-63-0	Nitroglycerin	0.334		0.099	0.012	0.010
78-11-5	PETN	0.308		0.099	0.012	0.0051
121-82-4	RDX	0.354		0.099	0.012	0.0043
479-45-8	Tetryl	0.399		0.099	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07200.d		
Lims ID:	280-22000-A-19-C MS	Client ID:	
Inject. Date:	09-Nov-2011 12:57:33	Dil. Factor:	1.0000
Sample Type:	MS		
Sample ID:	280-22000-A-19-C MS 280-0002728-195		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	41
Lims Batch ID:	95468	Lims Sample ID:	195
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 14:08:19	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	593687	78.3			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		887879	250.0			
4 RDX										
1	281.0	3.032	2.991	0.041	1.000	1043510	89.6			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2955816	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.718	0.041	1.000	694007	78.1			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	1251960	101.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1880288	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.954	4.954	0.000	1.008	758902	95.4			
9 Nitroglycerin										
2	61.8	4.994	4.954	0.040	1.016	4327414	84.6			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	3263092	85.7			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.438	0.034	1.114	735815	79.6			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	631017	88.1			
13 3,4-Dinitrotoluene										
3	182.0		5.583							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.021	6.021	0.000	0.843	2369496	85.4			
15 2,3-Dinitrotoluene										
3	182.0		6.391							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.594	6.594	0.000	0.923	3748526	99.8			
17 2,6-Dinitrotoluene										
3	182.0	6.776	6.745	0.031	0.949	5308936	87.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.110	0.030		5416669	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.170	0.031	1.009	2734307	94.7			
20 PETN										
4	61.8	7.616	7.616	0.000	1.000	4737030	78.0			
21 3,5-Dinitrotoluene										
3	182.0		7.778							
22 o-Nitrotoluene										
4	137.0	8.162	8.132	0.030	1.000	1037255	87.6			
23 p-Nitrotoluene										
4	137.0	8.679	8.679	0.000	1.000	913149	88.7			
24 m-Nitrotoluene										
4	137.0	9.347	9.316	0.031	1.000	571184	85.9			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.197							

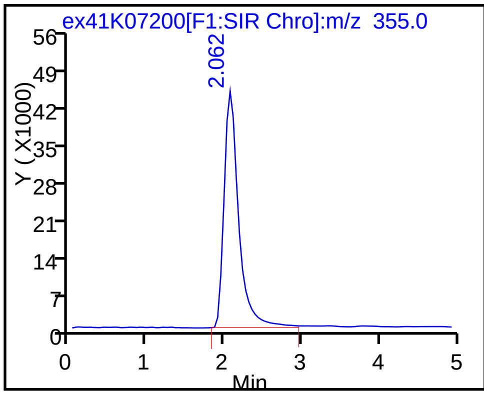
QC Flag Legend

Processing Flags
1 - Missing Peaks

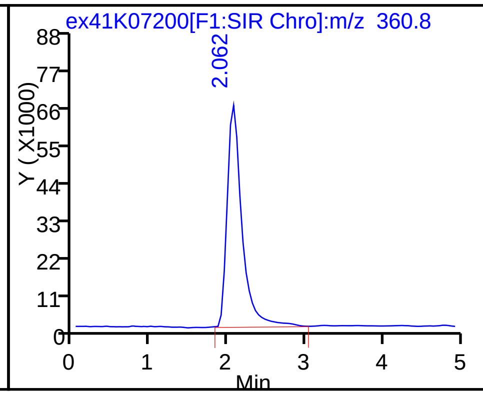
Report Date: 09-Nov-2011 14:08:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07200.d

Injection Date:	09-Nov-2011 12:57:33	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95468	Lims Sample ID:	195
Operator ID:		Injection Vol:	40.00 ul

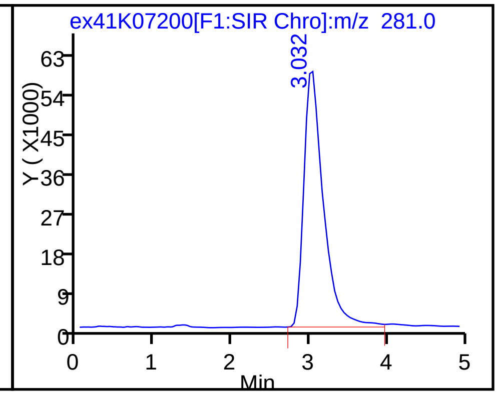
2 HMX



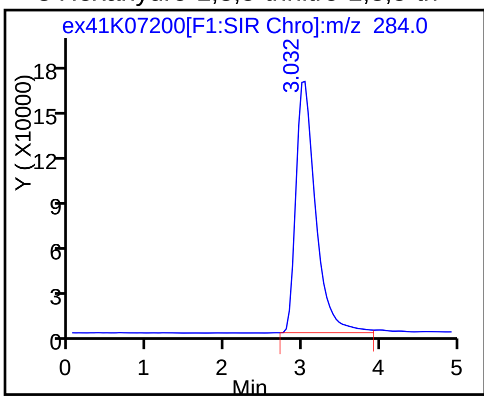
* 1 HMX-13C4



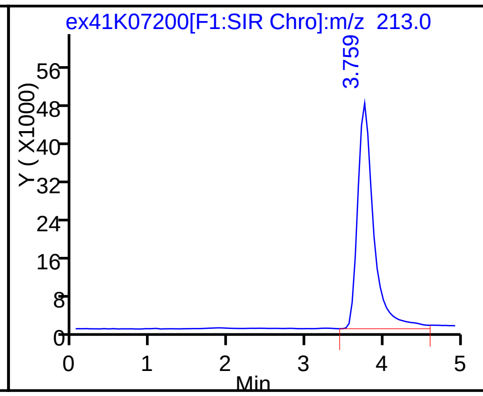
4 RDX



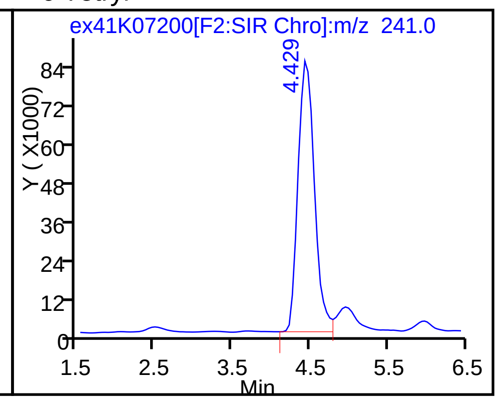
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



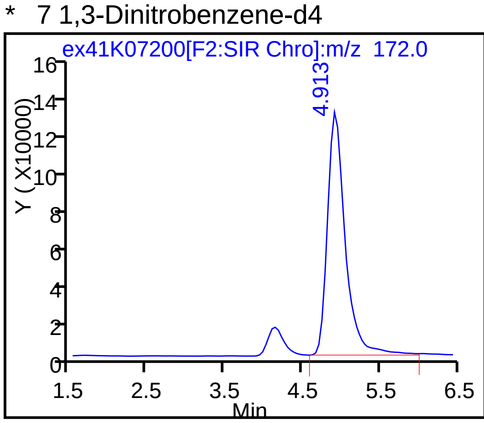
5 1,3,5-Trinitrobenzene



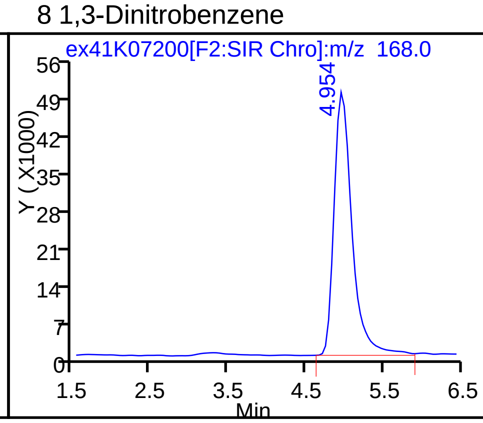
6 Tetryl



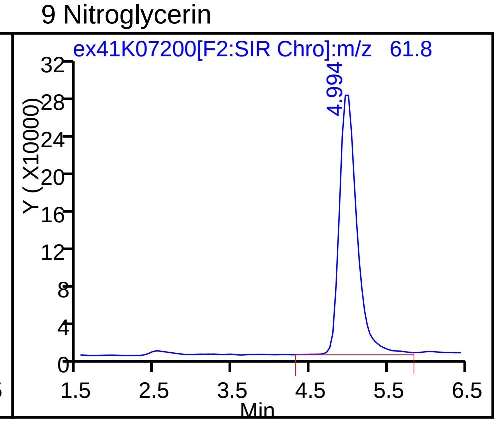
* 7 1,3-Dinitrobenzene-d4



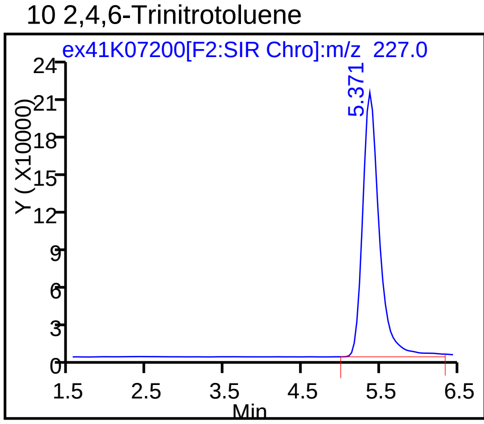
8 1,3-Dinitrobenzene



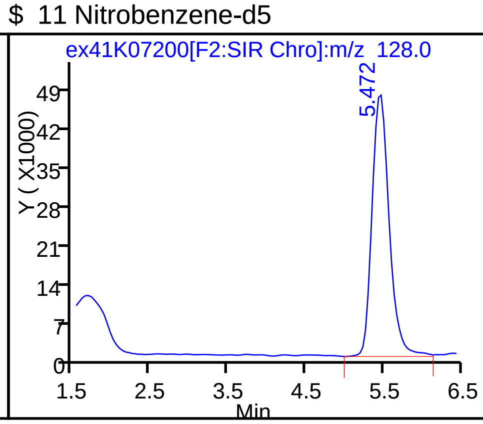
9 Nitroglycerin



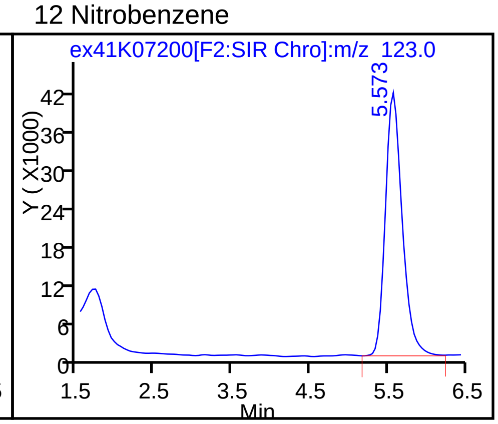
10 2,4,6-Trinitrotoluene



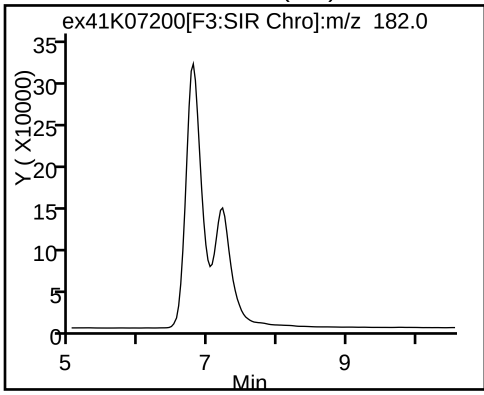
$ 11 Nitrobenzene-d5



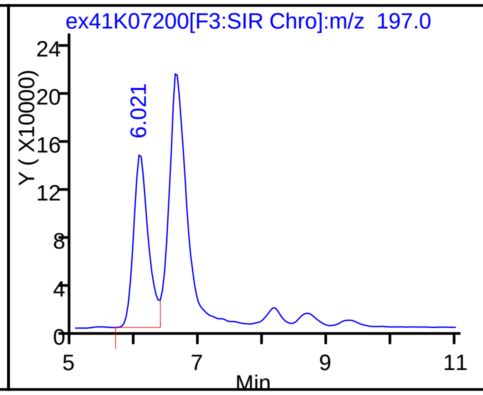
12 Nitrobenzene



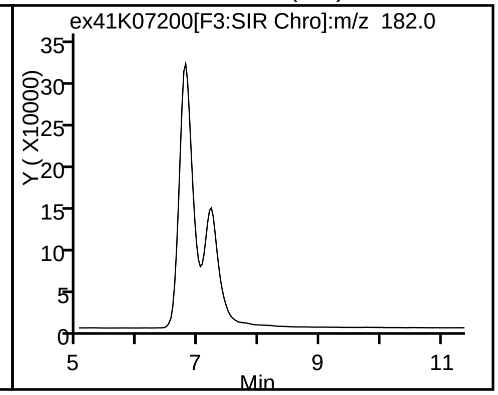
13 3,4-Dinitrotoluene (ND)



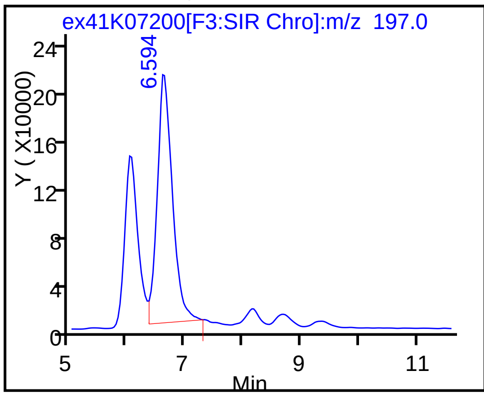
14 4-Amino-2,6-dinitrotoluene



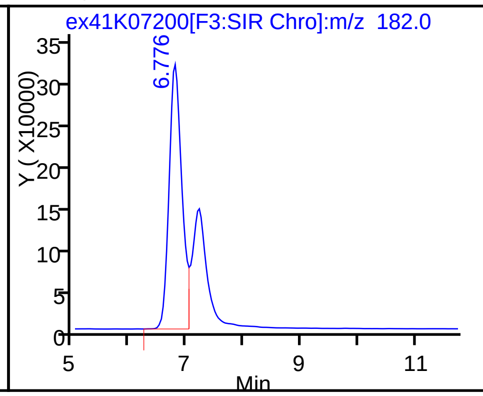
15 2,3-Dinitrotoluene (ND)



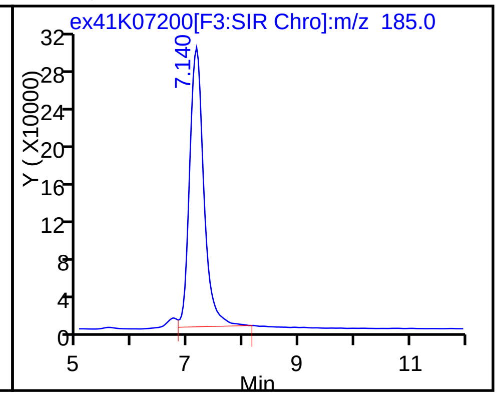
16 2-Amino-4,6-dinitrotoluene



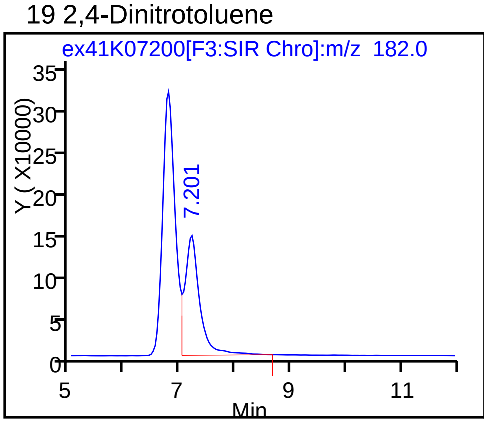
17 2,6-Dinitrotoluene



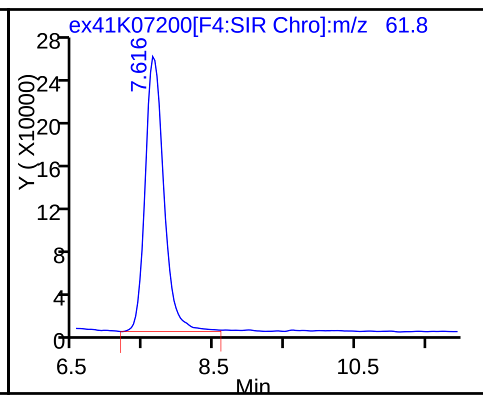
* 18 2,4-dinitrotoluene-d3



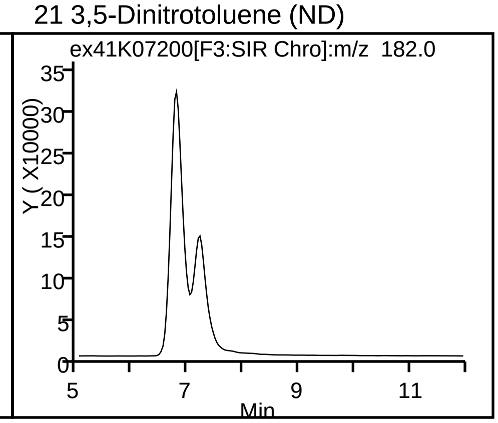
19 2,4-Dinitrotoluene



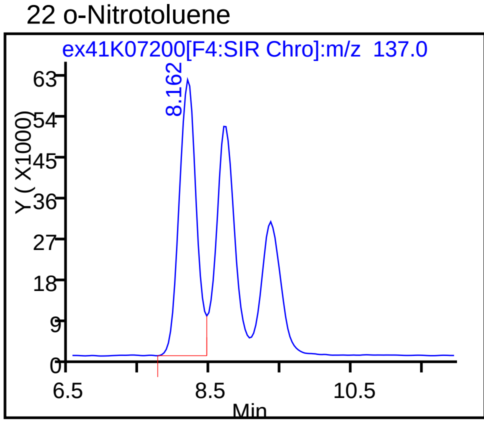
20 PETN



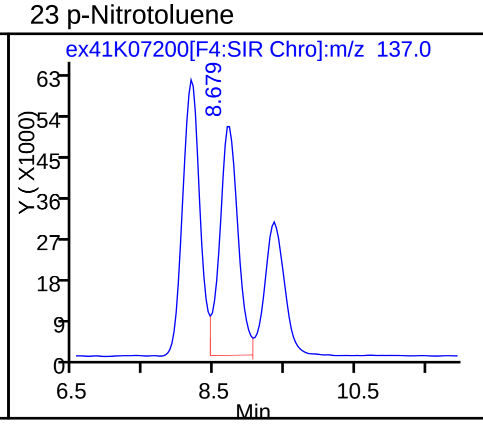
21 3,5-Dinitrotoluene (ND)



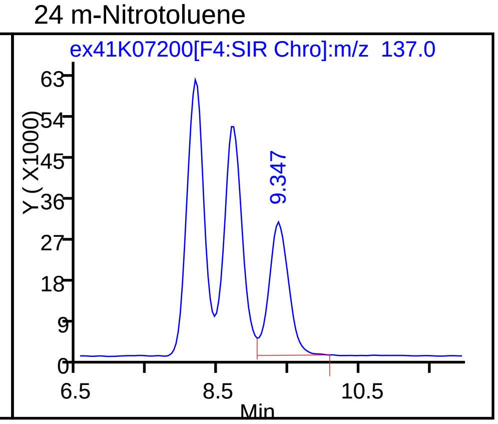
22 o-Nitrotoluene



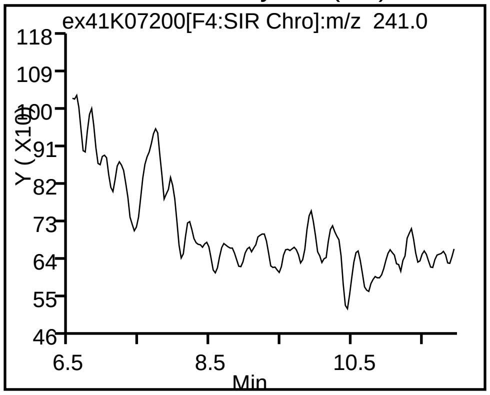
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Client Sample ID: CP43 SD013 MSD   Lab Sample ID: 280-22000-13 MSD

Matrix: Solid   Lab File ID: ex41K07152.d

Analysis Method: 8321B   Date Collected: 10/22/2011 10:40

Extraction Method: 8330B   Date Extracted: 11/04/2011 14:35

Sample wt/vol: 10.22(g)   Date Analyzed: 11/09/2011 02:00

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95320   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.286		0.098	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.343		0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.223	J	0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.321		0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.314		0.098	0.024	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.369		0.098	0.024	0.012
88-72-2	2-Nitrotoluene	0.328		0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.351		0.098	0.024	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.352		0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.357		0.098	0.024	0.011
2691-41-0	HMX	0.318		0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.344		0.098	0.012	0.011
55-63-0	Nitroglycerin	0.318		0.098	0.012	0.010
78-11-5	PETN	0.276		0.098	0.012	0.0050
121-82-4	RDX	0.366		0.098	0.012	0.0042
479-45-8	Tetryl	0.194		0.098	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	79		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07152.d		
Lims ID:	280-22000-B-13-E MSD	Client ID:	
Inject. Date:	09-Nov-2011 02:00:10	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	280-22000-B-13-E MSD 280-0002728-148		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	23
Lims Batch ID:	95320	Lims Sample ID:	148
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 06:55:57	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	511654	81.3			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		736803	250.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2764015	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1017601	93.5			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	663946	73.1			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	617411	49.6			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1923552	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	713652	87.7			
9 Nitroglycerin										
2	61.8	4.994	5.035	-0.041	1.008	4247909	81.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	2215812	56.9			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	741946	78.4			
12 Nitrobenzene										
2	123.0	5.607	5.573	0.034	1.132	644342	88.0			
13 3,4-Dinitrotoluene										
3	182.0		5.651							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.055	0.033	0.845	2592059	90.0			
15 2,3-Dinitrotoluene										
3	182.0		6.459							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.654	0.031	0.928	3671608	94.2			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.806	0.031	0.949	5032858	80.3			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.170	0.031		5621568	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.231	0.000	1.004	2445766	81.9			
20 PETN										
4	61.8	7.707	7.677	0.030	1.000	4471610	70.4			
21 3,5-Dinitrotoluene										
3	182.0		7.839							
22 o-Nitrotoluene										
4	137.0	8.223	8.223	0.000	1.000	1027833	83.7			
23 p-Nitrotoluene										
4	137.0	8.739	8.739	0.000	1.000	972999	91.1			
24 m-Nitrotoluene										
4	137.0	9.438	9.408	0.030	1.000	619243	89.7			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.288							

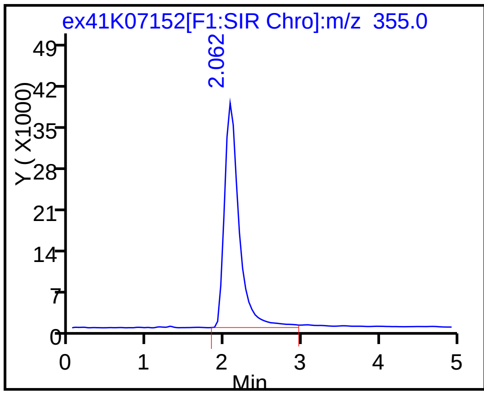
QC Flag Legend

Processing Flags
1 - Missing Peaks

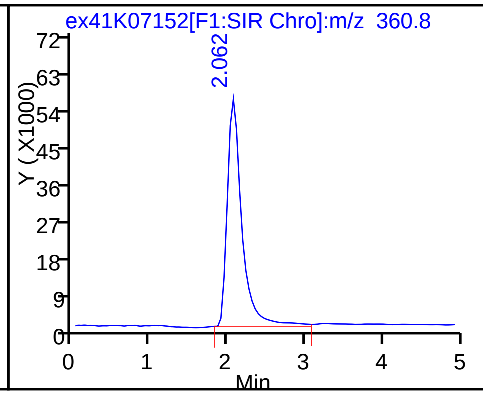
Report Date: 09-Nov-2011 06:56:02 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07152.d

Injection Date:	09-Nov-2011 02:00:10	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95320	Lims Sample ID:	148
Operator ID:		Injection Vol:	40.00 ul

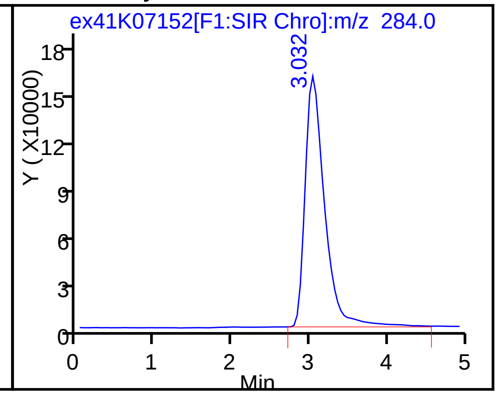
2 HMX



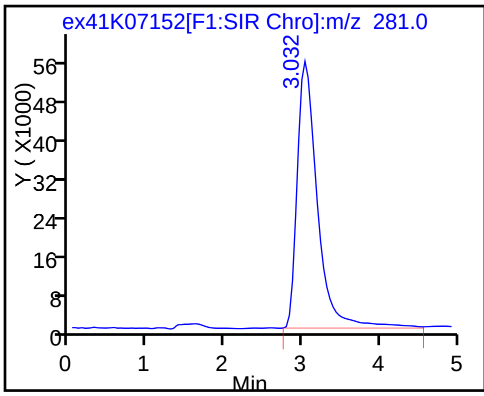
* 1 HMX-13C4



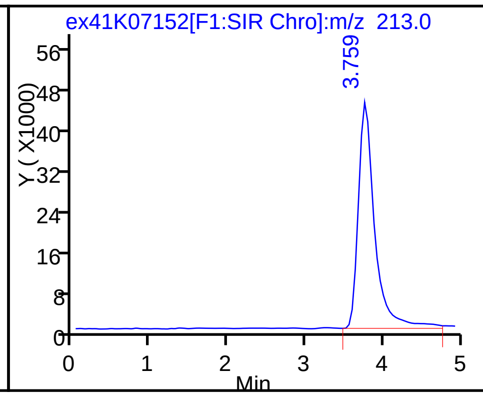
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



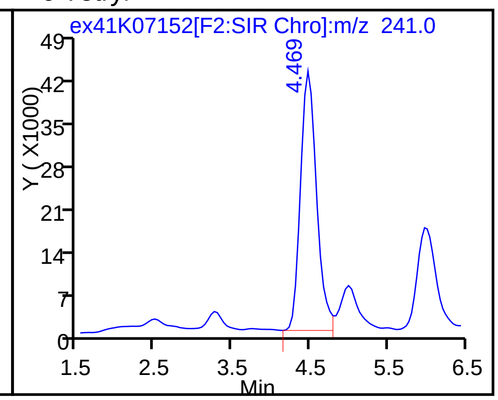
4 RDX



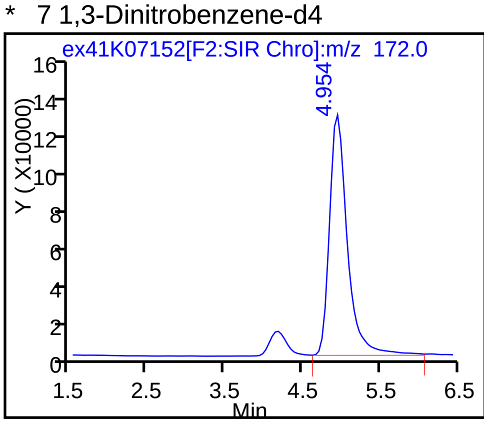
5 1,3,5-Trinitrobenzene



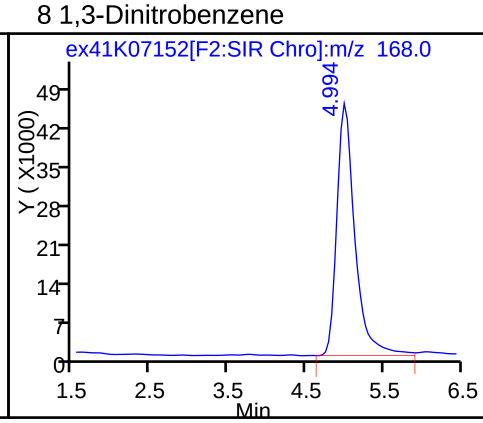
6 Tetryl



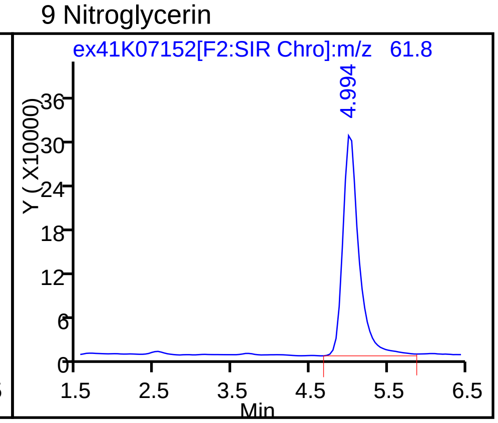
* 7 1,3-Dinitrobenzene-d4



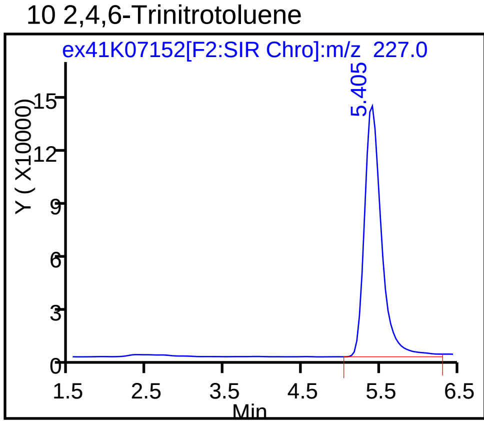
8 1,3-Dinitrobenzene



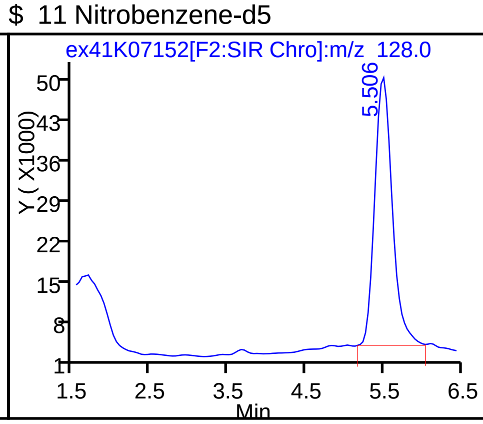
9 Nitroglycerin



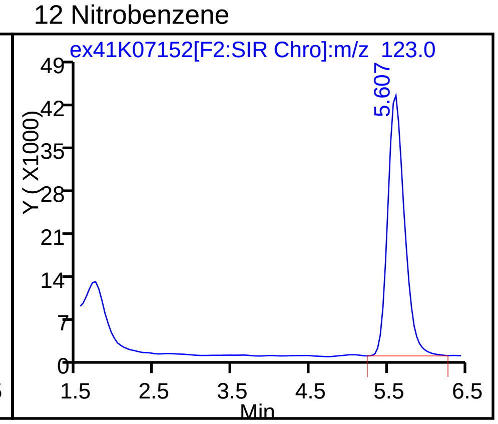
10 2,4,6-Trinitrotoluene



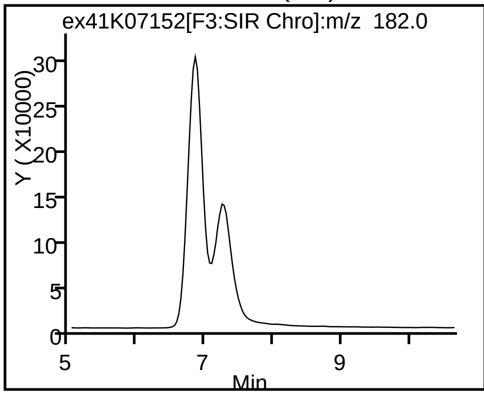
$ 11 Nitrobenzene-d5



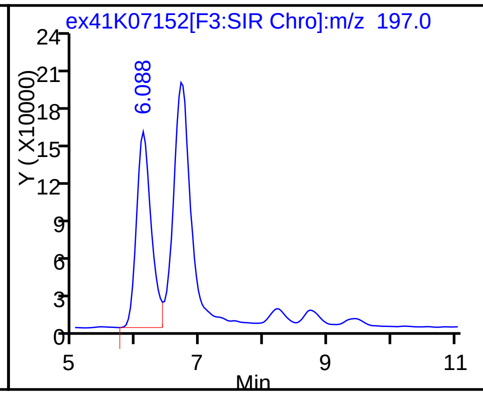
12 Nitrobenzene



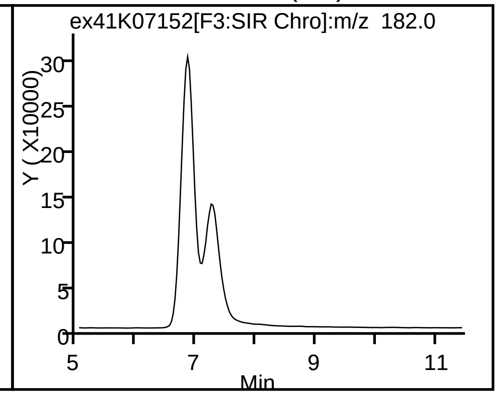
13 3,4-Dinitrotoluene (ND)



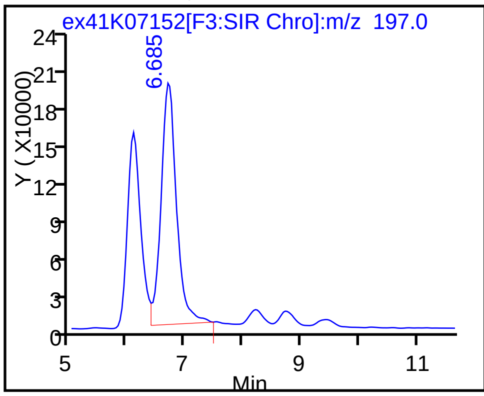
14 4-Amino-2,6-dinitrotoluene



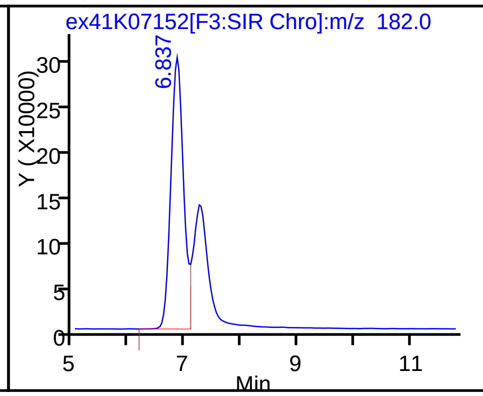
15 2,3-Dinitrotoluene (ND)



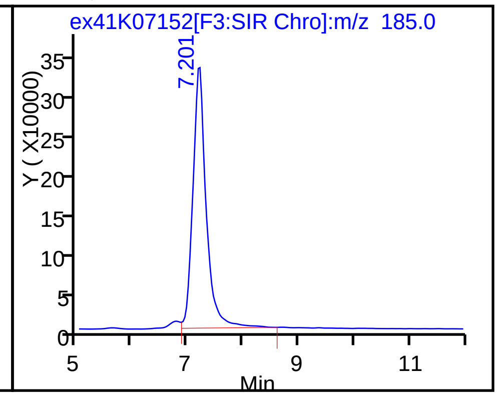
16 2-Amino-4,6-dinitrotoluene



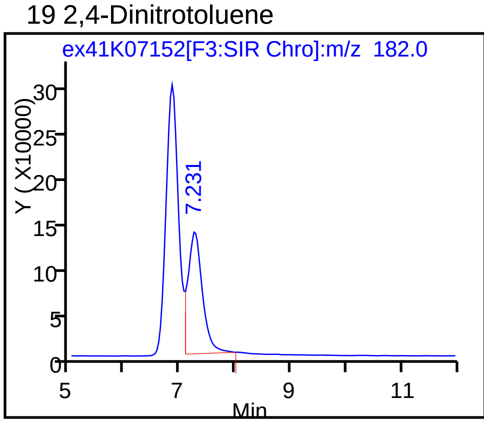
17 2,6-Dinitrotoluene



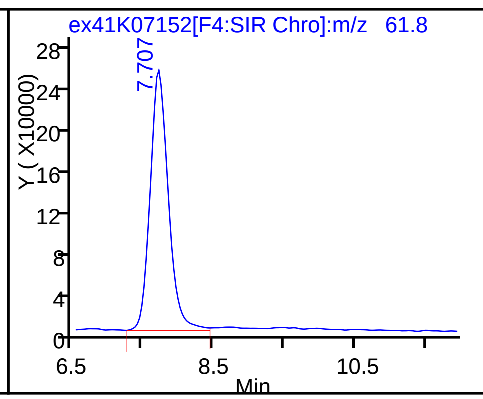
* 18 2,4-dinitrotoluene-d3



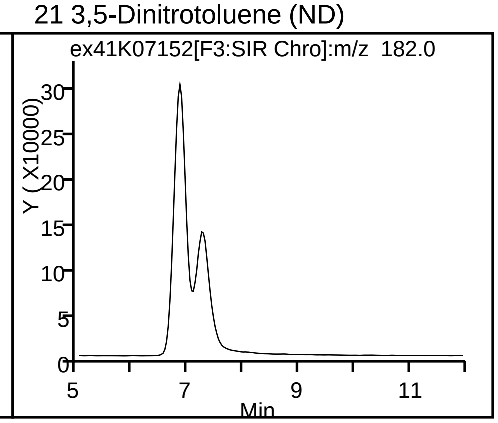
19 2,4-Dinitrotoluene



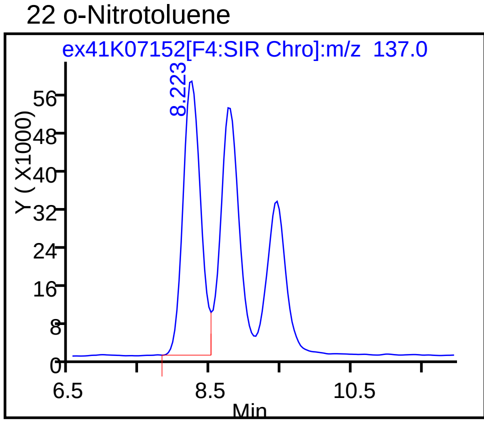
20 PETN



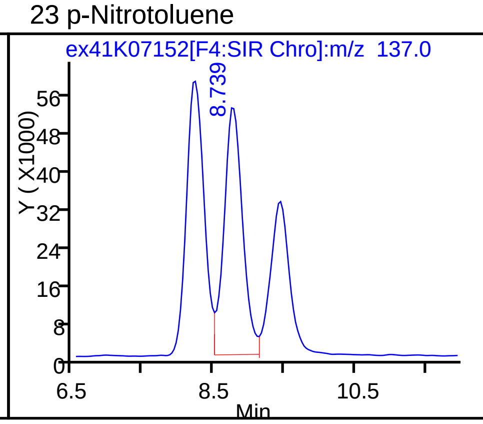
21 3,5-Dinitrotoluene (ND)



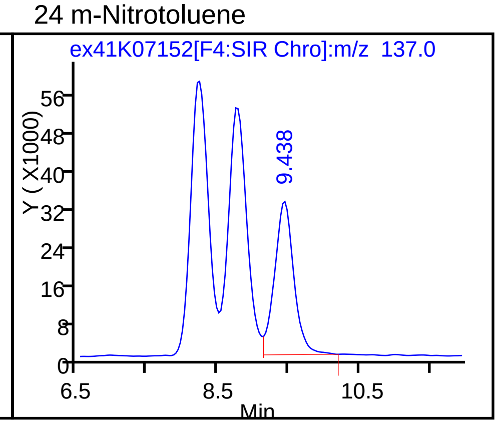
22 o-Nitrotoluene



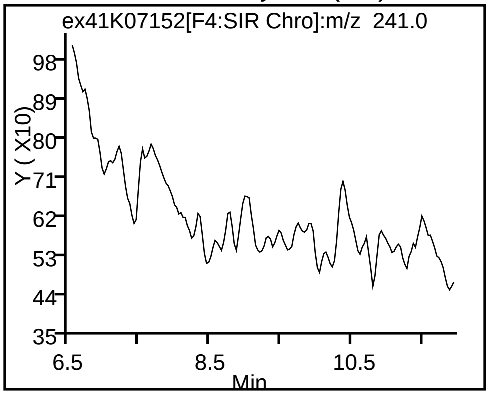
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22000-1

SDG No.:

Client Sample ID: MG35 SB124A MSD | Lab Sample ID: 280-22000-19 MSD

Matrix: Solid | Lab File ID: ex41K07201.d

Analysis Method: 8321B | Date Collected: 10/20/2011 11:25

Extraction Method: 8330B | Date Extracted: 11/03/2011 15:20

Sample wt/vol: 10.94(g) | Date Analyzed: 11/09/2011 13:11

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95468 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.267		0.091	0.023	0.012
99-65-0	1,3-Dinitrobenzene	0.317		0.091	0.011	0.0065
118-96-7	2,4,6-Trinitrotoluene	0.302		0.091	0.011	0.0046
121-14-2	2,4-Dinitrotoluene	0.329		0.091	0.011	0.0075
606-20-2	2,6-Dinitrotoluene	0.322		0.091	0.023	0.018
35572-78-2	2-Amino-4,6-dinitrotoluene	0.328		0.091	0.023	0.011
88-72-2	2-Nitrotoluene	0.328		0.091	0.011	0.0052
99-08-1	3-Nitrotoluene	0.310		0.091	0.023	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.329		0.091	0.011	0.0047
99-99-0	4-Nitrotoluene	0.322		0.091	0.023	0.010
2691-41-0	HMX	0.298		0.091	0.011	0.0053
98-95-3	Nitrobenzene	0.314		0.091	0.011	0.0099
55-63-0	Nitroglycerin	0.283		0.091	0.011	0.0096
78-11-5	PETN	0.288		0.091	0.011	0.0047
121-82-4	RDX	0.341		0.091	0.011	0.0039
479-45-8	Tetryl	0.317		0.091	0.011	0.0069

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	77		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07201.d		
Lims ID:	280-22000-A-19-D MSD	Client ID:	
Inject. Date:	09-Nov-2011 13:11:08	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	280-22000-A-19-D MSD 280-0002728-196		
Misc. Info.:	ex41K07 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	42
Lims Batch ID:	95468	Lims Sample ID:	196
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\8321exp4-25.m		
Last Update:	09-Nov-2011 14:08:19	Calib Date:	07-Nov-2011 17:14:37
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	576788	81.4			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		830303	250.0			
4 RDX										
1	281.0	3.032	2.991	0.041	1.000	1082382	93.4			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	2.991	0.041		2942088	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.718	0.041	1.000	696149	73.1			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	1149594	86.7			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		2016336	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.954	4.954	0.000	1.008	740282	86.8			
9 Nitroglycerin										
2	61.8	4.954	4.954	0.000	1.008	4253074	77.5			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	3374954	82.7			
$ 11 Nitrobenzene-d5										
2	128.0	5.439	5.438	0.001	1.107	759914	76.5			
12 Nitrobenzene										
2	123.0	5.540	5.573	-0.033	1.127	659522	85.9			
13 3,4-Dinitrotoluene										
3	182.0		5.583							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.021	6.021	0.000	0.847	2482181	90.1			
15 2,3-Dinitrotoluene										
3	182.0		6.391							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	16 2-Amino-4,6-dinitrotoluene									
3	197.0	6.594	6.594	0.000	0.927	3346260	89.8			
	17 2,6-Dinitrotoluene									
3	182.0	6.745	6.745	0.000	0.949	5275201	88.0			
*	18 2,4-dinitrotoluene-d3									
3	185.0	7.110	7.110	0.000		5377786	250.0			
	19 2,4-Dinitrotoluene									
3	182.0	7.170	7.170	0.000	1.009	2581518	90.1			
	20 PETN									
4	61.8	7.586	7.616	-0.030	1.000	4749628	78.8			
	21 3,5-Dinitrotoluene									
3	182.0		7.778							
	22 o-Nitrotoluene									
4	137.0	8.102	8.132	-0.030	1.000	1054307	89.6			
	23 p-Nitrotoluene									
4	137.0	8.618	8.679	-0.061	1.000	900076	88.1			
	24 m-Nitrotoluene									
4	137.0	9.256	9.316	-0.060	1.000	560384	84.9			
	25 2,4,6-Trinitro-3-xylene									1
4	241.0		10.197							

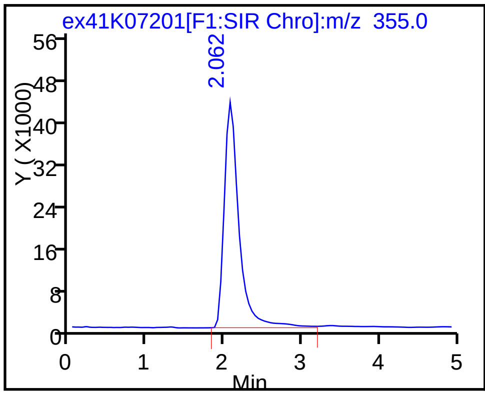
QC Flag Legend

Processing Flags
1 - Missing Peaks

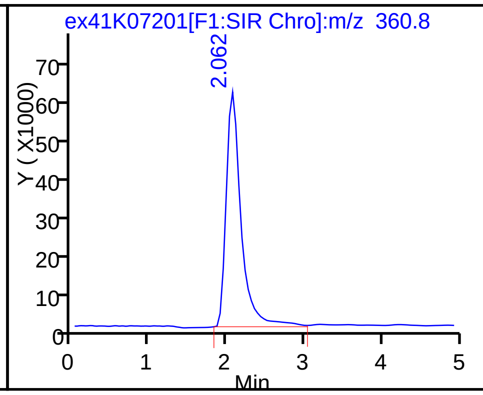
Report Date: 09-Nov-2011 14:08:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111107-2728.b\ex41K07201.d

Injection Date:	09-Nov-2011 13:11:08	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95468	Lims Sample ID:	196
Operator ID:		Injection Vol:	40.00 ul

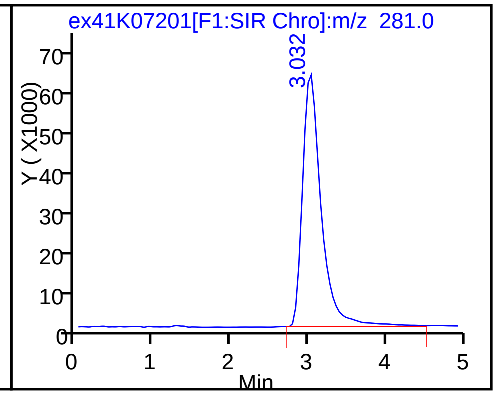
2 HMX



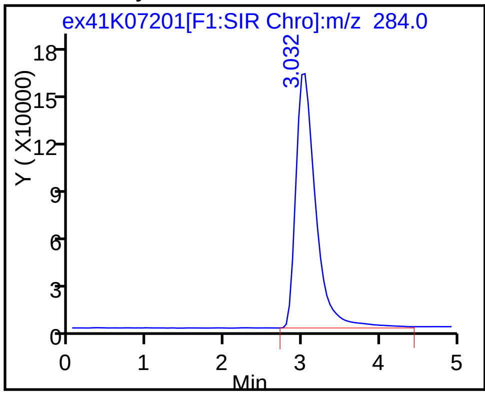
* 1 HMX-13C4



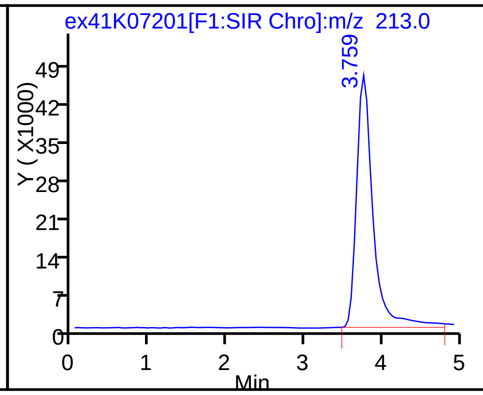
4 RDX



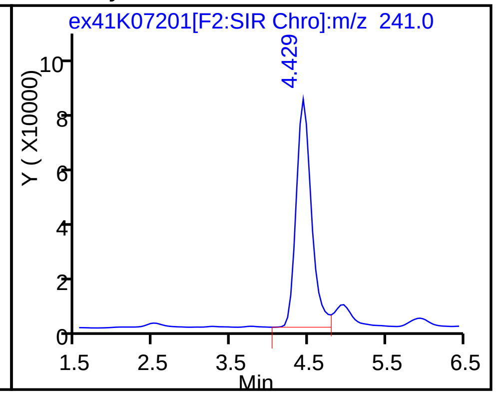
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



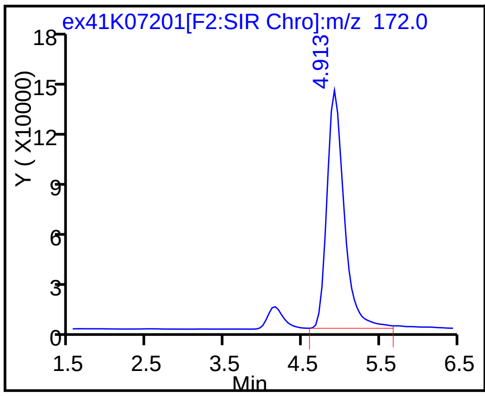
5 1,3,5-Trinitrobenzene



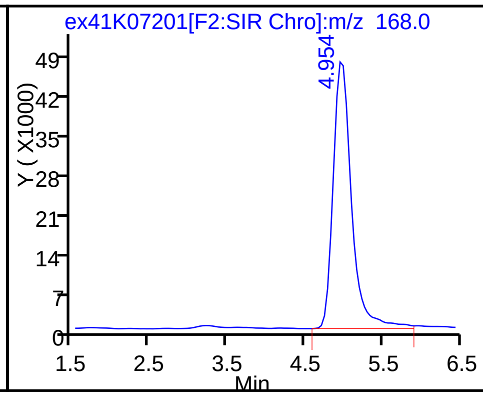
6 Tetryl



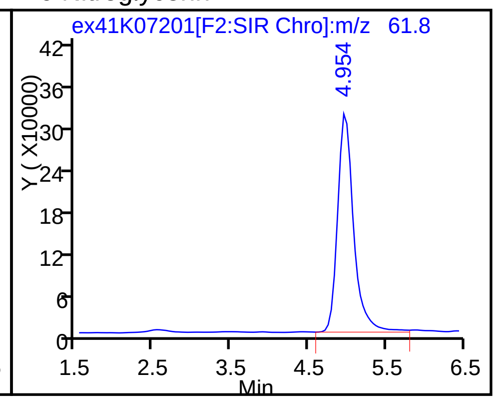
* 7 1,3-Dinitrobenzene-d4



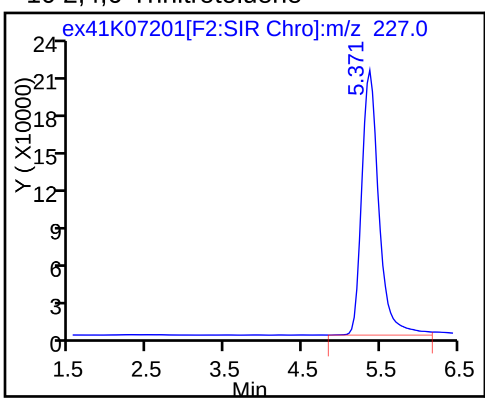
8 1,3-Dinitrobenzene



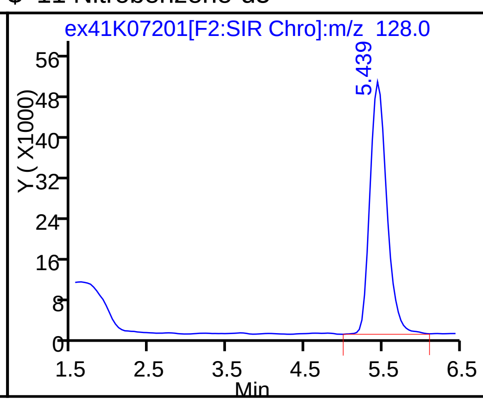
9 Nitroglycerin



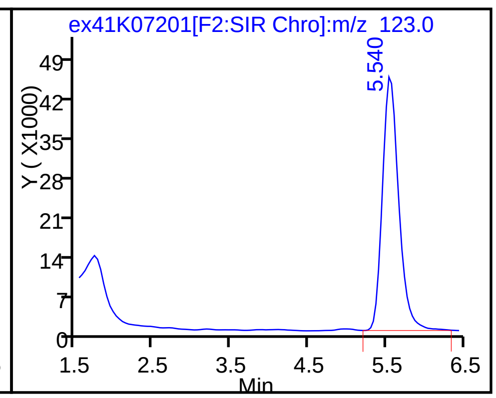
10 2,4,6-Trinitrotoluene



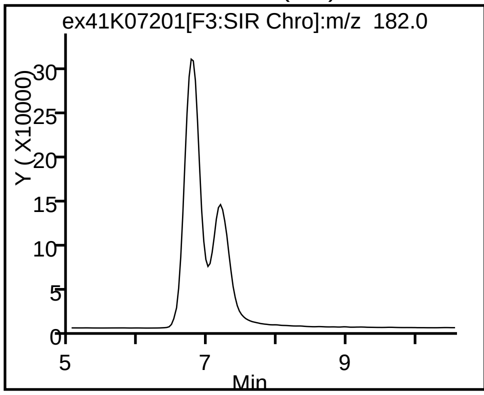
$ 11 Nitrobenzene-d5



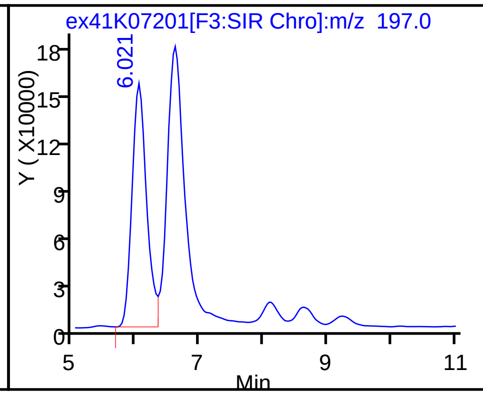
12 Nitrobenzene



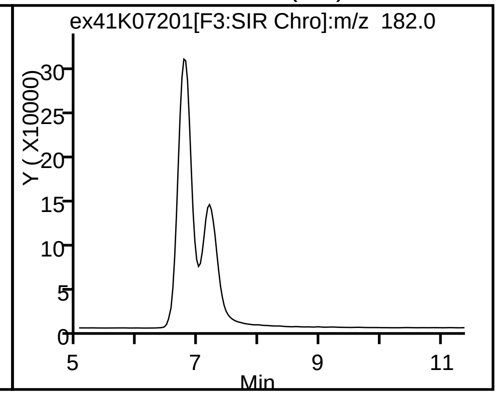
13 3,4-Dinitrotoluene (ND)



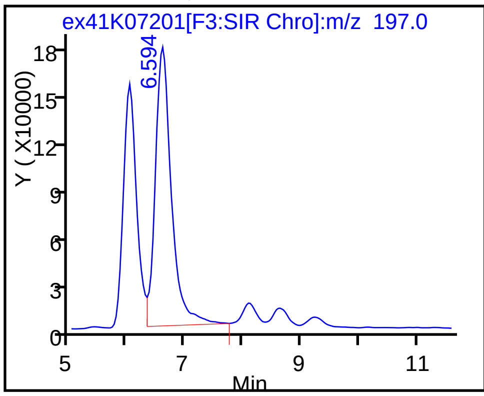
14 4-Amino-2,6-dinitrotoluene



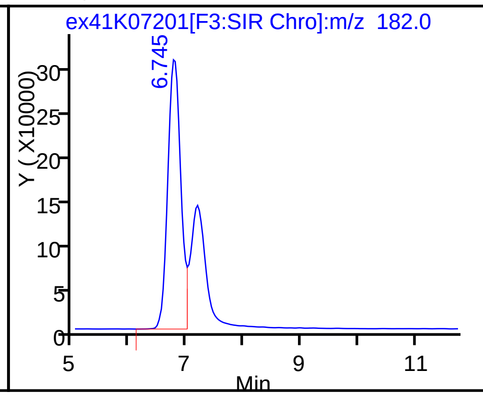
15 2,3-Dinitrotoluene (ND)



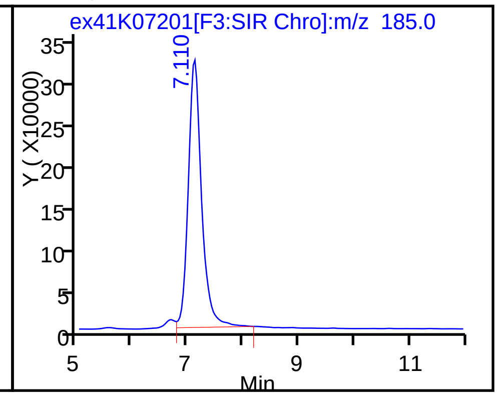
16 2-Amino-4,6-dinitrotoluene



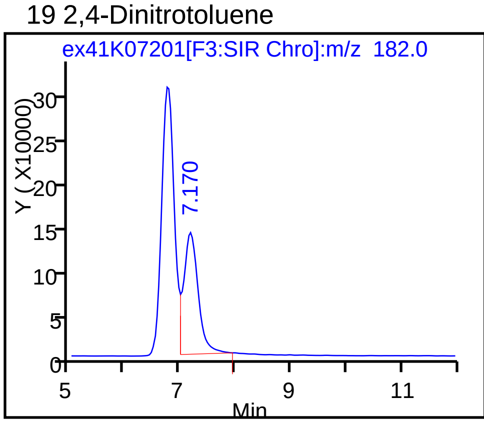
17 2,6-Dinitrotoluene



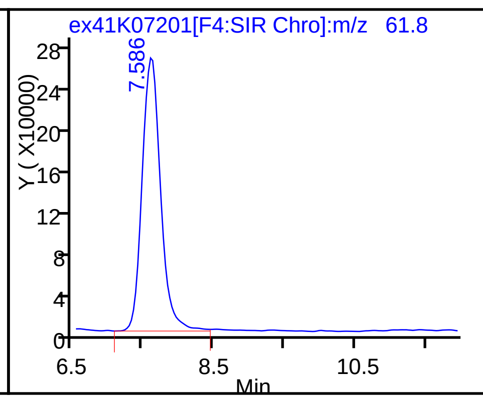
* 18 2,4-dinitrotoluene-d3



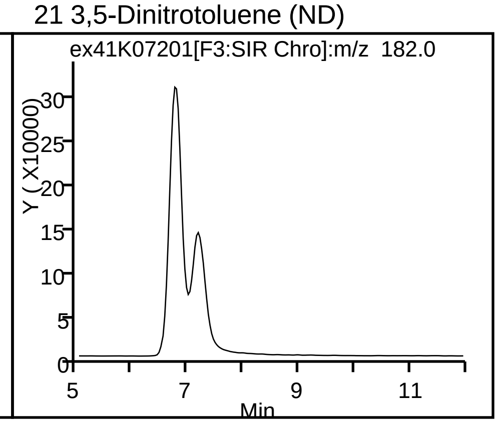
19 2,4-Dinitrotoluene



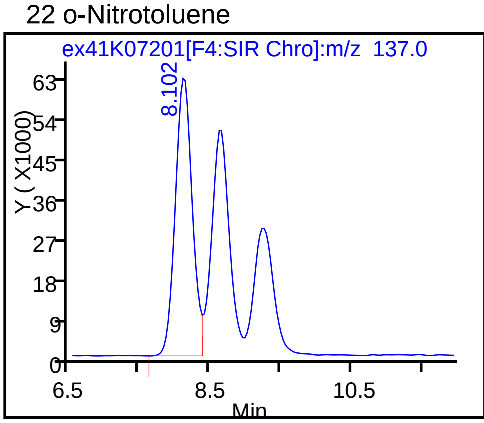
20 PETN



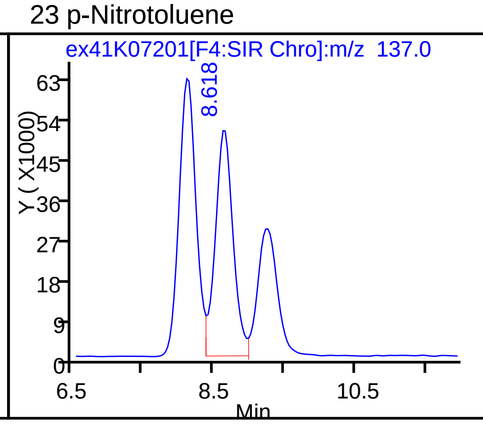
21 3,5-Dinitrotoluene (ND)



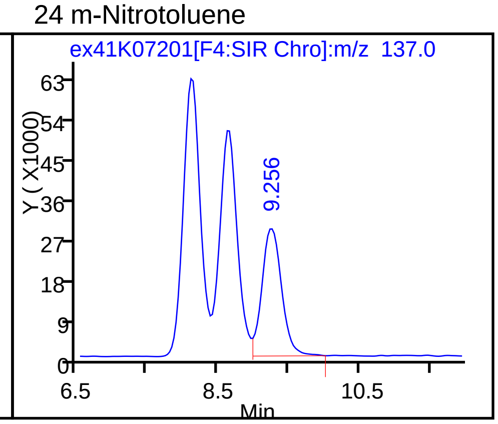
22 o-Nitrotoluene



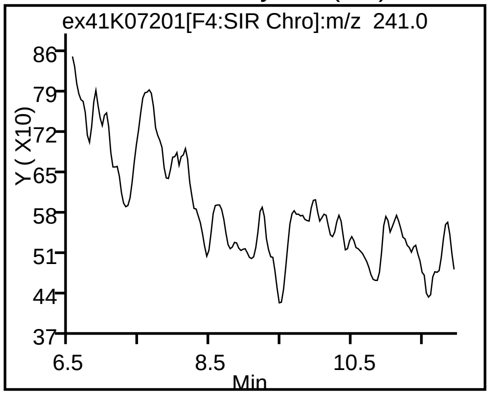
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Instrument ID: LC_LCMS4   Start Date: 11/07/2011 15:53

Analysis Batch Number: 95155   End Date: 11/07/2011 17:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 280-95155/1 IC		11/07/2011 15:53	1	ex41K07003.d	IonPac 2(mm)
STD010 280-95155/2 IC		11/07/2011 16:06	1	ex41K07004.d	IonPac 2(mm)
STD025 280-95155/3 IC		11/07/2011 16:20	1	ex41K07005.d	IonPac 2(mm)
STD050 280-95155/4 IC		11/07/2011 16:33	1	ex41K07006.d	IonPac 2(mm)
STD100 280-95155/5 ICISAV		11/07/2011 16:47	1	ex41K07007.d	IonPac 2(mm)
STD200 280-95155/6 IC		11/07/2011 17:01	1	ex41K07008.d	IonPac 2(mm)
STD300 280-95155/7 IC		11/07/2011 17:14	1	ex41K07009.d	IonPac 2(mm)
ICB 280-95155/8		11/07/2011 17:28	1	ex41K07010.d	IonPac 2(mm)
ZZZZZ		11/07/2011 17:41	1		IonPac 2(mm)
ICV 280-95155/10		11/07/2011 17:55	1	ex41K07012.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver　　Job No.: 280-22000-1

SDG No.:

Instrument ID: LC_LCMS4　　Start Date: 11/08/2011 21:55

Analysis Batch Number: 95320　　End Date: 11/09/2011 02:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-95320/130		11/08/2011 21:55	1	ex41K07134.d	IonPac 2(mm)
MB 280-94799/1-A		11/08/2011 22:08	1	ex41K07135.d	IonPac 2(mm)
LCS 280-94799/2-A		11/08/2011 22:22	1	ex41K07136.d	IonPac 2(mm)
280-22000-1	CP32 SD001	11/08/2011 22:36	1	ex41K07137.d	IonPac 2(mm)
280-22000-2	CP33 SD002	11/08/2011 22:49	1	ex41K07138.d	IonPac 2(mm)
280-22000-3	CP34 SD003	11/08/2011 23:03	1	ex41K07139.d	IonPac 2(mm)
280-22000-4	CP35 SD004	11/08/2011 23:17	1	ex41K07140.d	IonPac 2(mm)
280-22000-5	CP36 SD005	11/08/2011 23:30	1	ex41K07141.d	IonPac 2(mm)
280-22000-6	CP37 SD006	11/08/2011 23:44	1	ex41K07142.d	IonPac 2(mm)
280-22000-7	CP38 SD007	11/08/2011 23:58	1	ex41K07143.d	IonPac 2(mm)
280-22000-8	CP39 SD008	11/09/2011 00:11	1	ex41K07144.d	IonPac 2(mm)
CCV 280-95320/141		11/09/2011 00:25	1	ex41K07145.d	IonPac 2(mm)
280-22000-9	CP40 SD009	11/09/2011 00:38	1	ex41K07146.d	IonPac 2(mm)
280-22000-10	CP41 SD010	11/09/2011 00:52	1	ex41K07147.d	IonPac 2(mm)
280-22000-11	CP41 SD011	11/09/2011 01:05	1	ex41K07148.d	IonPac 2(mm)
280-22000-12	CP42 SD012	11/09/2011 01:19	1	ex41K07149.d	IonPac 2(mm)
280-22000-13	CP43 SD013	11/09/2011 01:33	1	ex41K07150.d	IonPac 2(mm)
280-22000-13 MS	CP43 SD013 MS	11/09/2011 01:46	1	ex41K07151.d	IonPac 2(mm)
280-22000-13 MSD	CP43 SD013 MSD	11/09/2011 02:00	1	ex41K07152.d	IonPac 2(mm)
ZZZZZ		11/09/2011 02:13	5		IonPac 2(mm)
CCV 280-95320/150		11/09/2011 02:27	1	ex41K07154.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Instrument ID: LC_LCMS4   Start Date: 11/09/2011 11:35

Analysis Batch Number: 95468   End Date: 11/09/2011 13:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-95468/190		11/09/2011 11:35	1	ex41K07194.d	IonPac 2(mm)
MB 280-94652/1-A		11/09/2011 12:03	1	ex41K07196.d	IonPac 2(mm)
LCS 280-94652/2-A		11/09/2011 12:16	1	ex41K07197.d	IonPac 2(mm)
280-22000-18	MG35 SB123A	11/09/2011 12:30	1	ex41K07198.d	IonPac 2(mm)
280-22000-19	MG35 SB124A	11/09/2011 12:44	1	ex41K07199.d	IonPac 2(mm)
280-22000-19 MS	MG35 SB124A MS	11/09/2011 12:57	1	ex41K07200.d	IonPac 2(mm)
280-22000-19 MSD	MG35 SB124A MSD	11/09/2011 13:11	1	ex41K07201.d	IonPac 2(mm)
CCV 280-95468/197		11/09/2011 13:24	1	ex41K07202.d	IonPac 2(mm)

8321B

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Batch Number: 94652 Batch Start Date: 11/03/11 15:20 Batch Analyst: Frey, Alan C

Batch Method: 8330B Batch End Date: 11/04/11 14:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00011	8321ExplosSur 00017		
MB 280-94652/1		8330B, 8321B		10.01 g	40 mL		1 mL		
LCS 280-94652/2		8330B, 8321B		10.49 g	40 mL	1 mL	1 mL		
280-22000-A-18-A	MG35 SB123A	8330B, 8321B	T	10.00 g	40 mL		1 mL		
280-22000-A-19-A	MG35 SB124A	8330B, 8321B	T	10.16 g	40 mL		1 mL		
280-22000-A-19-A MS	MG35 SB124A	8330B, 8321B	T	10.13 g	40 mL	1 mL	1 mL		
280-22000-A-19-A MSD	MG35 SB124A	8330B, 8321B	T	10.94 g	40 mL	1 mL	1 mL		

Batch Notes	
Balance ID	24750836
Person's name who did the concentration	Filtered by:Frey A.
Filter Lot #	00133971
Filter Type	0.2um
Pipette ID	E
Pipette ID for Solvent	Exp-1
Prep Solvent Volume Used	20 mL
Person's name who witnessed reagent drop	Reviewer:Wiggins J.
Blank Sand Lot #	2AB0606
Solvent Lot #	0.1%AAinACN_00010
Solvent Name	A.ACN
Sonication Start Time	Shaker table start: 11.3.11@1525
Sonication Stop Time	shaker table stop: 11.4.11@1145
SOP Number	DV-OP-0018

Basis	Basis Description
T	Total/NA

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Batch Number: 94799 Batch Start Date: 11/04/11 14:35 Batch Analyst: Frey, Alan C

Batch Method: 8330B Batch End Date: 11/06/11 10:23

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00011	8321ExplosSur 00018		
MB 280-94799/1		8330B, 8321B		10.54 g	40 mL		1 mL		
LCS 280-94799/2		8330B, 8321B		10.96 g	40 mL	1 mL	1 mL		
280-22000-B-1-A	CP32 SD001	8330B, 8321B	T	10.67 g	40 mL		1 mL		
280-22000-A-2-A	CP33 SD002	8330B, 8321B	T	10.96 g	40 mL		1 mL		
280-22000-A-3-A	CP34 SD003	8330B, 8321B	T	10.52 g	40 mL		1 mL		
280-22000-A-4-A	CP35 SD004	8330B, 8321B	T	10.81 g	40 mL		1 mL		
280-22000-B-5-A	CP36 SD005	8330B, 8321B	T	10.13 g	40 mL		1 mL		
280-22000-A-6-A	CP37 SD006	8330B, 8321B	T	10.19 g	40 mL		1 mL		
280-22000-A-7-A	CP38 SD007	8330B, 8321B	T	10.46 g	40 mL		1 mL		
280-22000-B-8-A	CP39 SD008	8330B, 8321B	T	10.18 g	40 mL		1 mL		
280-22000-A-9-A	CP40 SD009	8330B, 8321B	T	10.42 g	40 mL		1 mL		
280-22000-A-10-A	CP41 SD010	8330B, 8321B	T	10.11 g	40 mL		1 mL		
280-22000-A-11-A	CP41 SD011	8330B, 8321B	T	10.51 g	40 mL		1 mL		
280-22000-A-12-A	CP42 SD012	8330B, 8321B	T	10.40 g	40 mL		1 mL		
280-22000-B-13-A	CP43 SD013	8330B, 8321B	T	10.13 g	40 mL		1 mL		
280-22000-B-13-A MS	CP43 SD013	8330B, 8321B	T	10.02 g	40 mL	1 mL	1 mL		
280-22000-B-13-A MSD	CP43 SD013	8330B, 8321B	T	10.22 g	40 mL	1 mL	1 mL		

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Batch Number: 94799 Batch Start Date: 11/04/11 14:35 Batch Analyst: Frey, Alan C

Batch Method: 8330B Batch End Date: 11/06/11 10:23

Batch Notes	
Balance ID	24750836
Person's name who did the concentration	Filtered by:CokleyC
Filter Lot #	00133971
Filter Type	0.2um
Pipette ID	C
Pipette ID for Solvent	Exp-1
Prep Solvent Volume Used	20 mL
Person's name who witnessed reagent drop	Reviewer:VuD
Blank Sand Lot #	2AB0606
Solvent Lot #	0.1%AAinACN_00011
Solvent Name	A.ACN
Sonication Start Time	Shaker table start: 11.4.11@1500
Sonication Stop Time	shaker table stop: 11.5.11@1050
SOP Number	DV-OP-0018

Basis	Basis Description
T	Total/NA

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Denver   Job Number: 280-22000-1

SDG No.:

Project: Martha's Vineyard

Client Sample ID	Lab Sample ID
CP32 SD001	280-22000-1
CP33 SD002	280-22000-2
CP34 SD003	280-22000-3
CP35 SD004	280-22000-4
CP36 SD005	280-22000-5
CP37 SD006	280-22000-6
CP38 SD007	280-22000-7
CP39 SD008	280-22000-8
CP40 SD009	280-22000-9
CP41 SD010	280-22000-10
CP41 SD011	280-22000-11
CP42 SD012	280-22000-12
CP43 SD013	280-22000-13
MG35 SB123A	280-22000-18
MG35 SB124A	280-22000-19

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP32 SD001

Lab Sample ID: 280-22000-1

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/22/2011 07:45

Reporting Basis: DRY

Date Received: 10/25/2011 08:30

% Solids: 68.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.020	0.28	0.056	0.020	mg/Kg	J	Q J	1	6020A
Copper	4.4	3.5	0.28	0.099	mg/Kg			1	6020A
Lead	6.3	0.14	0.070	0.025	mg/Kg			1	6020A
Nickel	4.8	0.49	0.10	0.035	mg/Kg			1	6020A
Zinc	17	3.5	1.3	0.44	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP33 SD002 Lab Sample ID: 280-22000-2

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG ID.:

Matrix: Solid Date Sampled: 10/22/2011 08:10

Reporting Basis: DRY Date Received: 10/25/2011 08:30

% Solids: 81.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.017	0.23	0.046	0.016	mg/Kg	J	Q	1	6020A
Copper	0.49	2.9	0.23	0.082	mg/Kg	J		1	6020A
Lead	1.2	0.12	0.058	0.021	mg/Kg			1	6020A
Nickel	0.98	0.40	0.086	0.029	mg/Kg			1	6020A
Zinc	2.8	2.9	1.0	0.36	mg/Kg	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP34 SD003

Lab Sample ID: 280-22000-3

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/22/2011 07:55

Reporting Basis: DRY

Date Received: 10/25/2011 08:30

% Solids: 74.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.051	0.26	0.051	0.018	mg/Kg	U	Q	1	6020A
Copper	0.66	3.2	0.26	0.091	mg/Kg	J		1	6020A
Lead	1.2	0.13	0.064	0.023	mg/Kg			1	6020A
Nickel	0.63	0.45	0.096	0.032	mg/Kg			1	6020A
Zinc	2.5	3.2	1.2	0.40	mg/Kg	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP35 SD004

Lab Sample ID: 280-22000-4

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/22/2011 08:30

Reporting Basis: DRY

Date Received: 10/25/2011 08:30

% Solids: 81.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.041	0.21	0.041	0.014	mg/Kg	U	Q	1	6020A
Copper	0.47	2.6	0.21	0.073	mg/Kg	J		1	6020A
Lead	0.88	0.10	0.051	0.019	mg/Kg			1	6020A
Nickel	0.67	0.36	0.077	0.026	mg/Kg			1	6020A
Zinc	2.4	2.6	0.92	0.32	mg/Kg	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP36 SD005

Lab Sample ID: 280-22000-5

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/22/2011 09:00

Reporting Basis: DRY

Date Received: 10/25/2011 08:30

% Solids: 76.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.051	0.26	0.051	0.018	mg/Kg	U	Q	1	6020A
Copper	0.51	3.2	0.26	0.091	mg/Kg	J		1	6020A
Lead	1.8	0.13	0.064	0.023	mg/Kg			1	6020A
Nickel	0.83	0.45	0.096	0.032	mg/Kg			1	6020A
Zinc	2.6	3.2	1.1	0.40	mg/Kg	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP37 SD006

Lab Sample ID: 280-22000-6

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/22/2011 09:30

Reporting Basis: DRY

Date Received: 10/25/2011 08:30

% Solids: 83.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.043	0.22	0.043	0.015	mg/Kg	U	Q	1	6020A
Copper	0.40	2.7	0.22	0.077	mg/Kg	J		1	6020A
Lead	0.92	0.11	0.054	0.020	mg/Kg			1	6020A
Nickel	0.41	0.38	0.081	0.027	mg/Kg			1	6020A
Zinc	4.3	2.7	0.98	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP38 SD007

Lab Sample ID: 280-22000-7

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/22/2011 09:40

Reporting Basis: DRY

Date Received: 10/25/2011 08:30

% Solids: 79.4

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.050	0.25	0.050	0.018	mg/Kg	U	Q	1	6020A
Copper	0.53	3.2	0.25	0.090	mg/Kg	J		1	6020A
Lead	1.2	0.13	0.063	0.023	mg/Kg			1	6020A
Nickel	0.61	0.44	0.095	0.032	mg/Kg			1	6020A
Zinc	2.6	3.2	1.1	0.40	mg/Kg	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP39 SD008 | Lab Sample ID: 280-22000-8

Lab Name: TestAmerica Denver | Job No.: 280-22000-1

SDG ID.:

Matrix: Solid | Date Sampled: 10/22/2011 09:50

Reporting Basis: DRY | Date Received: 10/25/2011 08:30

% Solids: 80.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.043	0.21	0.043	0.015	mg/Kg	U	Q	1	6020A
Copper	0.43	2.7	0.21	0.076	mg/Kg	J		1	6020A
Lead	1.1	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	0.80	0.37	0.080	0.027	mg/Kg			1	6020A
Zinc	2.4	2.7	0.96	0.34	mg/Kg	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP40 SD009

Lab Sample ID: 280-22000-9

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/22/2011 10:20

Reporting Basis: DRY

Date Received: 10/25/2011 08:30

% Solids: 83.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.047	0.23	0.047	0.016	mg/Kg	U	Q	1	6020A
Copper	0.39	2.9	0.23	0.083	mg/Kg	J		1	6020A
Lead	1.2	0.12	0.059	0.021	mg/Kg			1	6020A
Nickel	0.69	0.41	0.088	0.030	mg/Kg			1	6020A
Zinc	2.1	2.9	1.1	0.37	mg/Kg	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP41 SD010

Lab Sample ID: 280-22000-10

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/22/2011 10:10

Reporting Basis: DRY

Date Received: 10/25/2011 08:30

% Solids: 79.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.050	0.25	0.050	0.017	mg/Kg	U	Q	1	6020A
Copper	0.47	3.1	0.25	0.088	mg/Kg	J		1	6020A
Lead	0.94	0.12	0.062	0.023	mg/Kg			1	6020A
Nickel	0.78	0.43	0.093	0.031	mg/Kg			1	6020A
Zinc	2.6	3.1	1.1	0.39	mg/Kg	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP41 SD011

Lab Sample ID: 280-22000-11

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/22/2011 10:10

Reporting Basis: DRY

Date Received: 10/25/2011 08:30

% Solids: 84.0

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.045	0.23	0.045	0.016	mg/Kg	U	Q	1	6020A
Copper	0.47	2.8	0.23	0.081	mg/Kg	J		1	6020A
Lead	1.5	0.11	0.057	0.021	mg/Kg			1	6020A
Nickel	0.86	0.40	0.085	0.029	mg/Kg			1	6020A
Zinc	2.7	2.8	1.0	0.36	mg/Kg	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP42 SD012

Lab Sample ID: 280-22000-12

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/22/2011 10:30

Reporting Basis: DRY

Date Received: 10/25/2011 08:30

% Solids: 80.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.044	0.22	0.044	0.015	mg/Kg	U	Q	1	6020A
Copper	0.48	2.7	0.22	0.078	mg/Kg	J		1	6020A
Lead	1.2	0.11	0.055	0.020	mg/Kg			1	6020A
Nickel	1.1	0.38	0.082	0.028	mg/Kg			1	6020A
Zinc	2.6	2.7	0.99	0.35	mg/Kg	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP43 SD013

Lab Sample ID: 280-22000-13

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/22/2011 10:40

Reporting Basis: DRY

Date Received: 10/25/2011 08:30

% Solids: 80.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.045	0.23	0.045	0.016	mg/Kg	U	Q	1	6020A
Copper	0.34	2.8	0.23	0.080	mg/Kg	J		1	6020A
Lead	0.80	0.11	0.056	0.021	mg/Kg			1	6020A
Nickel	0.55	0.39	0.085	0.029	mg/Kg			1	6020A
Zinc	2.4	2.8	1.0	0.36	mg/Kg	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG35 SB123A

Lab Sample ID: 280-22000-18

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/20/2011 11:15

Reporting Basis: DRY

Date Received: 10/25/2011 08:30

% Solids: 84.8

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.024	0.22	0.044	0.015	mg/Kg	J	Q	1	6020A
Copper	5.0	2.7	0.22	0.078	mg/Kg			1	6020A
Lead	9.6	0.11	0.055	0.020	mg/Kg			1	6020A
Nickel	3.2	0.38	0.082	0.028	mg/Kg			1	6020A
Zinc	14	2.7	0.98	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MG35 SB124A

Lab Sample ID: 280-22000-19

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG ID.:

Matrix: Solid

Date Sampled: 10/20/2011 11:25

Reporting Basis: DRY

Date Received: 10/25/2011 08:30

% Solids: 87.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.038	0.19	0.038	0.013	mg/Kg	U	Q	1	6020A
Copper	3.1	2.4	0.19	0.068	mg/Kg			1	6020A
Lead	3.9	0.096	0.048	0.017	mg/Kg			1	6020A
Nickel	3.8	0.34	0.072	0.024	mg/Kg			1	6020A
Zinc	9.5	2.4	0.86	0.30	mg/Kg			1	6020A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

ICV Source: MS ICV_00453   Concentration Units: ug/L

CCV Source: MS CCV_00454

Analyte	ICV 280-95436/4 11/08/2011 19:06				CCV 280-95436/14 11/08/2011 19:35				CCV 280-95436/66 11/08/2011 22:06			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	39.6		40.0	99	49.6		50.0	99	49.0		50.0	98
Copper	39.5		40.0	99	48.6		50.0	97	50.5		50.0	101
Lead	41.7		40.0	104	50.5		50.0	101	49.4		50.0	99
Nickel	40.9		40.0	102	50.0		50.0	100	50.2		50.0	100
Zinc	40.2		40.0	100	49.7		50.0	99	49.6		50.0	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

ICV Source: MS ICV_00453   Concentration Units: ug/L

CCV Source: MS CCV_00454

Analyte	CCV 280-95436/76 11/08/2011 22:35				CCV 280-95436/86 11/08/2011 23:04				CCV 280-95436/96 11/08/2011 23:33			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	48.9		50.0	98	49.5		50.0	99	49.4		50.0	99
Copper	49.5		50.0	99	49.9		50.0	100	49.9		50.0	100
Lead	48.8		50.0	98	49.3		50.0	99	49.7		50.0	99
Nickel	49.9		50.0	100	50.4		50.0	101	50.3		50.0	101
Zinc	49.5		50.0	99	49.4		50.0	99	49.2		50.0	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

ICV Source: MS ICV_00453   Concentration Units: ug/L

CCV Source: MS CCV_00454

Analyte	CCV 280-95436/109 11/09/2011 00:10				CCV 280-95436/121 11/09/2011 00:45							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	49.8		50.0	100	49.6		50.0	99				
Copper	50.0		50.0	100	50.1		50.0	100				
Lead	48.8		50.0	98	48.8		50.0	98				
Nickel	50.0		50.0	100	50.2		50.0	100				
Zinc	49.3		50.0	99	50.1		50.0	100				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

ICV Source: MS LCCV dly_00453   Concentration Units: ug/L

CCV Source: MS LCCV dly_00453

Analyte	ICVL 280-95436/5 11/08/2011 19:09				CCVL 280-95436/16 11/08/2011 19:41				CCVL 280-95436/68 11/08/2011 22:12			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.25		2.00	113	2.11		2.00	105	2.08		2.00	104
Copper	2.18		2.00	109	2.23		2.00	112	2.19		2.00	110
Lead	1.10		1.00	110	1.11		1.00	111	1.08		1.00	108
Nickel	2.26		2.00	113	2.31		2.00	115	2.27		2.00	113
Zinc	10.7		10.0	107	10.6		10.0	106	10.5		10.0	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

ICV Source: MS LCCV dly_00453   Concentration Units: ug/L

CCV Source: MS LCCV dly_00453

Analyte	CCVL 280-95436/78 11/08/2011 22:41				CCVL 280-95436/88 11/08/2011 23:10				CCVL 280-95436/98 11/08/2011 23:38			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.11		2.00	106	2.13		2.00	106	2.11		2.00	105
Copper	2.21		2.00	110	2.24		2.00	112	2.27		2.00	114
Lead	1.09		1.00	109	1.11		1.00	111	1.09		1.00	109
Nickel	2.29		2.00	115	2.32		2.00	116	2.33		2.00	117
Zinc	11.1		10.0	111	10.6		10.0	106	10.6		10.0	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

ICV Source: MS LCCV dly_00453 Concentration Units: ug/L

CCV Source: MS LCCV dly_00453

Analyte	CCVL 280-95436/111 11/09/2011 00:16				CCVL 280-95436/123 11/09/2011 00:51							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.11		2.00	105	2.12		2.00	106				
Copper	2.21		2.00	110	2.16		2.00	108				
Lead	1.09		1.00	109	1.08		1.00	108				
Nickel	2.27		2.00	114	2.29		2.00	114				
Zinc	10.5		10.0	105	10.4		10.0	104				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Method: 6020A   Instrument ID: MT_024

Lab Sample ID: CRI 280-95436/7   Concentration Units: ug/L

CRQL Check Standard Source: MS RL STD_00464

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	1.00	0.998	J	100	80-120
Copper	1.00	0.984	J	98	80-120
Lead	1.00	0.984	J	98	80-120
Nickel	1.00	0.991	J	99	80-120
Zinc	10.0	10.1		101	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 280-95436/6 11/08/2011 19:12		CCB 280-95436/15 11/08/2011 19:38		CCB 280-95436/67 11/08/2011 22:09		CCB 280-95436/77 11/08/2011 22:38	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 280-95436/87 11/08/2011 23:07		CCB 280-95436/97 11/08/2011 23:36		CCB 280-95436/110 11/09/2011 00:13		CCB 280-95436/122 11/09/2011 00:48	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 280-93880/1-A

Instrument Code: MT_024 Batch No.: 95436

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.038	U	Q	6020A
7440-50-8	Copper	0.19	U		6020A
7439-92-1	Lead	0.048	U		6020A
7440-02-0	Nickel	0.071	U		6020A
7440-66-6	Zinc	0.86	U		6020A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Concentration Units: mg/Kg   Lab Sample ID: MB 280-94817/1-A

Instrument Code: MT_024   Batch No.: 95436

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.039	U	Q	6020A
7440-50-8	Copper	0.110	J		6020A
7439-92-1	Lead	0.049	U		6020A
7440-02-0	Nickel	0.074	U		6020A
7440-66-6	Zinc	0.88	U		6020A

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Lab Sample ID: ICSA 280-95436/9   Instrument ID: MT_024

Lab File ID: 010ICSA.D   ICS Source: MS ICSA_00452

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.291**	
Copper		**0.335**	
Lead		**0.135**	
Nickel		**0.778**	
Zinc		**2.67**	
Arsenic		*0.513*	
Barium		*0.195*	
Beryllium		*0.0005*	
Cadmium		*0.557*	
Chromium		*1.10*	
Co		*0.0523*	
Manganese		*0.468*	
Molybdenum	*2000*	*2031*	*102*
Selenium		*0.263*	
Silver		*0.0633*	
Thallium		*0.0257*	
Tin		*0.124*	
Uranium		*0.0014*	
Vanadium		*0.203*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Lab Sample ID: ICSAB 280-95436/10   Instrument ID: MT_024

Lab File ID: 011ICSB.D   ICS Source: MS ICSAB_00455

Concentration Units: ug/L

Analyte	True	Found	
	Solution AB	Solution AB	Percent Recovery
Antimony	**100**	**106**	**106**
Copper	**100**	**90.8**	**91**
Lead	**100**	**95.9**	**96**
Nickel	**100**	**93.2**	**93**
Zinc	**100**	**99.2**	**99**
Arsenic	*100*	*105*	*105*
Barium	*100*	*105*	*105*
Beryllium	*100*	*100*	*100*
Cadmium	*100*	*98.4*	*98*
Chromium	*100*	*99.8*	*100*
Co	*100*	*96.0*	*96*
Manganese	*100*	*100*	*100*
Molybdenum	*2100*	*2161*	*103*
Selenium	*100*	*110*	*110*
Silver	*100*	*90.4*	*90*
Thallium	*100*	*96.2*	*96*
Tin	*100*	*97.7*	*98*
Uranium	*100*	*102*	*102*
Vanadium	*100*	*103*	*103*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: CP32 SD001 MS

Lab ID: 280-22000-1 MS

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 68.2

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	6.30		0.020	J	28.5	22	82-110	Q J	6020A
Copper	32.6		4.4		28.5	99	87-125		6020A
Lead	35.9		6.3		28.5	104	81-125		6020A
Nickel	34.3		4.8		28.5	104	90-113		6020A
Zinc	47.3		17		28.5	107	85-119		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: CP32 SD001 MSD

Lab ID: 280-22000-1 MSD

Lab Name: TestAmerica Denver

Job No.: 280-22000-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 68.2

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	5.32		27.9	19	82-110	17	20	Q J	6020A
Copper	30.5		27.9	93	87-125	7	20		6020A
Lead	33.5		27.9	97	81-125	7	20		6020A
Nickel	31.8		27.9	97	90-113	8	20		6020A
Zinc	43.5		27.9	95	85-119	8	20		6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: CP32 SD001 PDS | Lab ID: 280-22000-1 PDS

Lab Name: TestAmerica Denver | Job No.: 280-22000-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	141		0.020	J	140	101	75-125	Q	6020A
Copper	135		4.4		140	94	75-125		6020A
Lead	140		6.3		140	96	75-125		6020A
Nickel	146		4.8		140	101	75-125		6020A
Zinc	150		17		140	95	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-94817/2-A

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

Sample Matrix: Solid   LCS Source: MS CALSTD-2_00053

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	16.9	17.1		101	82	110	Q	6020A
Copper	16.9	17.5		103	87	125		6020A
Lead	16.9	17.5		103	81	125		6020A
Nickel	16.9	17.7		105	90	113		6020A
Zinc	16.9	16.9		100	85	119		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-93880/2-A

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

Sample Matrix: Solid   LCS Source: MS CALSTD-2_00053

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	18.7	18.5		99	82	110	Q	6020A
Copper	18.7	18.7		100	87	125		6020A
Lead	18.7	18.8		100	81	125		6020A
Nickel	18.7	19.1		102	90	113		6020A
Zinc	18.7	18.2		97	85	119		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-22000-1

SDG No:

Lab Name: TestAmerica Denver — Job No: 280-22000-1

Matrix: Solid — Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.020	J	0.28	U	NC	Q	6020A
Copper	4.4		4.46	J	NC	D	6020A
Lead	6.3		6.43		2.7	D	6020A
Nickel	4.8		4.77		1.1	D	6020A
Zinc	17		16.9	J	NC	D	6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-22000-1

SDG Number:

Matrix: Solid Instrument ID: MT_024

Method: 6020A DL Date: 06/20/2011 12:15

Prep Method: 3050B

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (ug/Kg)
Antimony	121	0.2	14
Copper	63	2.5	71.1
Lead	208	0.1	18.2
Nickel	60	0.35	25.3
Zinc	66	2.5	316

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver   Job Number: 280-22000-1

SDG Number:

Matrix: Solid   Instrument ID: MT_024

Method: 6020A   XMDL Date: 06/20/2011 12:42

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony		2	0.07
Copper		2	0.56
Lead		1	0.18
Nickel		2	0.3
Zinc		10	2

FORM IX - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Denver   Job No: 280-22000-1

SDG No.:

Instrument ID: MT_024   Date: 10/10/2011 16:29

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Antimony		4000	6020A
Copper		4000	6020A
Lead		4000	6020A
Nickel		4000	6020A
Zinc		4000	6020A

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-93880/1-A	11/07/2011 14:00	93880	1.05		100
LCS 280-93880/2-A	11/07/2011 14:00	93880	1.07		100
280-22000-1	11/07/2011 14:00	93880	1.05		100
280-22000-1 MS	11/07/2011 14:00	93880	1.03		100
280-22000-1 MSD	11/07/2011 14:00	93880	1.05		100
280-22000-2	11/07/2011 14:00	93880	1.06		100
280-22000-3	11/07/2011 14:00	93880	1.05		100
280-22000-4	11/07/2011 14:00	93880	1.20		100
280-22000-5	11/07/2011 14:00	93880	1.02		100
280-22000-6	11/07/2011 14:00	93880	1.11		100
280-22000-7	11/07/2011 14:00	93880	1.00		100
280-22000-8	11/07/2011 14:00	93880	1.16		100
280-22000-9	11/07/2011 14:00	93880	1.03		100
280-22000-10	11/07/2011 14:00	93880	1.02		100
280-22000-11	11/07/2011 14:00	93880	1.05		100
280-22000-12	11/07/2011 14:00	93880	1.13		100
280-22000-13	11/07/2011 14:00	93880	1.10		100

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-94817/1-A	11/08/2011 05:15	94817	1.02		100
LCS 280-94817/2-A	11/08/2011 05:15	94817	1.18		100
280-22000-18	11/08/2011 05:15	94817	1.08		100
280-22000-19	11/08/2011 05:15	94817	1.19		100

FORM XII-IN

ANALYSIS RUN LOG

METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Instrument ID: MT_024   Method: 6020A

Start Date: 11/08/2011 18:55   End Date: 11/09/2011 00:51

Lab Sample ID	D/F	Type	Time	Analytes				
				Cu	Ni	Pb	Sb	Zn
ITUNE 280-95436/1			18:55					
IC 280-95436/2	1		19:01	X	X	X	X	X
IC 280-95436/3	1		19:04	X	X	X	X	X
ICV 280-95436/4	1		19:06	X	X	X	X	X
ICVL 280-95436/5	1		19:09	X	X	X	X	X
ICB 280-95436/6	1		19:12	X	X	X	X	X
CRI 280-95436/7	1		19:15	X	X	X	X	X
ZZZZZZ			19:18					
ICSA 280-95436/9	1		19:21	X	X	X	X	X
ICSAB 280-95436/10	1		19:24	X	X	X	X	X
RINSE 280-95436/11			19:27					
LRA 280-95436/12			19:30					
RINSE 280-95436/13			19:32					
CCV 280-95436/14	1		19:35	X	X	X	X	X
CCB 280-95436/15	1		19:38	X	X	X	X	X
CCVL 280-95436/16	1		19:41	X	X	X	X	X
ZZZZZZ			19:44					
ZZZZZZ			19:47					
ZZZZZZ			19:50					
ZZZZZZ			19:53					
ZZZZZZ			19:55					
ZZZZZZ			19:58					
ZZZZZZ			20:01					
ZZZZZZ			20:04					
CCV 280-95436/25			20:07					
CCB 280-95436/26			20:10					
CCVL 280-95436/27			20:13					
ZZZZZZ			20:16					
ZZZZZZ			20:19					
ZZZZZZ			20:22					
ZZZZZZ			20:24					
ZZZZZZ			20:27					
ZZZZZZ			20:30					
ZZZZZZ			20:33					
ZZZZZZ			20:36					
CCV 280-95436/36			20:39					
CCB 280-95436/37			20:42					
CCVL 280-95436/38			20:45					
ZZZZZZ			20:48					
ZZZZZZ			20:51					
ZZZZZZ			20:53					
ZZZZZZ			20:56					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Instrument ID: MT_024   Method: 6020A

Start Date: 11/08/2011 18:55   End Date: 11/09/2011 00:51

Lab Sample ID	D/F	Type	Time	Analytes																			
				Cu	Ni	Pb	Sb	Zn															
ZZZZZZ			20:59																				
ZZZZZZ			21:02																				
ZZZZZZ			21:05																				
ZZZZZZ			21:08																				
CCV 280-95436/47			21:11																				
CCB 280-95436/48			21:14																				
CCVL 280-95436/49			21:17																				
ZZZZZZ			21:20																				
ZZZZZZ			21:23																				
ZZZZZZ			21:26																				
ZZZZZZ			21:29																				
ZZZZZZ			21:32																				
ZZZZZZ			21:34																				
ZZZZZZ			21:37																				
ZZZZZZ			21:40																				
ZZZZZZ			21:43																				
CCV 280-95436/59			21:46																				
CCB 280-95436/60			21:49																				
CCVL 280-95436/61			21:52																				
ZZZZZZ			21:55																				
ZZZZZZ			21:57																				
ZZZZZZ			22:00																				
ZZZZZZ			22:03																				
CCV 280-95436/66	1		22:06	X	X	X	X	X															
CCB 280-95436/67	1		22:09	X	X	X	X	X															
CCVL 280-95436/68	1		22:12	X	X	X	X	X															
MB 280-94817/1-A	1	T	22:15	X	X	X	X	X															
LCS 280-94817/2-A	1	T	22:18	X	X	X	X	X															
280-22000-18	1	T	22:21	X	X	X	X	X															
280-22000-19	1	T	22:23	X	X	X	X	X															
ZZZZZZ			22:26																				
ZZZZZZ			22:29																				
ZZZZZZ			22:32																				
CCV 280-95436/76	1		22:35	X	X	X	X	X															
CCB 280-95436/77	1		22:38	X	X	X	X	X															
CCVL 280-95436/78	1		22:41	X	X	X	X	X															
ZZZZZZ			22:44																				
ZZZZZZ			22:47																				
ZZZZZZ			22:50																				
ZZZZZZ			22:52																				
ZZZZZZ			22:55																				
ZZZZZZ			22:58																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/08/2011 18:55 End Date: 11/09/2011 00:51

Lab Sample ID	D/F	Type	Time	Analytes																		
				Cu	Ni	Pb	Sb	Zn														
ZZZZZZ			23:01																			
CCV 280-95436/86	1		23:04	X	X	X	X	X														
CCB 280-95436/87	1		23:07	X	X	X	X	X														
CCVL 280-95436/88	1		23:10	X	X	X	X	X														
ZZZZZZ			23:13																			
ZZZZZZ			23:16																			
ZZZZZZ			23:18																			
ZZZZZZ			23:21																			
ZZZZZZ			23:24																			
ZZZZZZ			23:27																			
ZZZZZZ			23:30																			
CCV 280-95436/96	1		23:33	X	X	X	X	X														
CCB 280-95436/97	1		23:36	X	X	X	X	X														
CCVL 280-95436/98	1		23:38	X	X	X	X	X														
MB 280-93880/1-A	1	T	23:41	X	X	X	X	X														
LCS 280-93880/2-A	1	T	23:44	X	X	X	X	X														
280-22000-1	1	T	23:47	X	X	X	X	X														
280-22000-1 SD	5	T	23:50	X	X	X	X	X														
280-22000-1 PDS	1	T	23:53	X	X	X	X	X														
280-22000-1 MS	1	T	23:56	X	X	X	X	X														
280-22000-1 MSD	1	T	23:59	X	X	X	X	X														
280-22000-2	1	T	00:02	X	X	X	X	X														
280-22000-3	1	T	00:04	X	X	X	X	X														
280-22000-4	1	T	00:07	X	X	X	X	X														
CCV 280-95436/109	1		00:10	X	X	X	X	X														
CCB 280-95436/110	1		00:13	X	X	X	X	X														
CCVL 280-95436/111	1		00:16	X	X	X	X	X														
280-22000-5	1	T	00:19	X	X	X	X	X														
280-22000-6	1	T	00:22	X	X	X	X	X														
280-22000-7	1	T	00:25	X	X	X	X	X														
280-22000-8	1	T	00:28	X	X	X	X	X														
280-22000-9	1	T	00:31	X	X	X	X	X														
280-22000-10	1	T	00:34	X	X	X	X	X														
280-22000-11	1	T	00:37	X	X	X	X	X														
280-22000-12	1	T	00:40	X	X	X	X	X														
280-22000-13	1	T	00:42	X	X	X	X	X														
CCV 280-95436/121	1		00:45	X	X	X	X	X														
CCB 280-95436/122	1		00:48	X	X	X	X	X														
CCVL 280-95436/123	1		00:51	X	X	X	X	X														

Prep Types
T = Total/NA

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

ICP-MS Instrument ID: MT_024   Analysis Date: 11/08/11

Lab ID: ITUNE 280-95436/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-7	7.00	0.65	1.15	
Be-9	8.95	0.60	1.83	
Mg-24	24.00	0.65	1.27	
Co-59	59.00	0.60	0.77	
In-115	115.05	0.60	0.96	
Pb-208	208.00	0.55	0.49	
U-238	238.00	0.55	1.03	

FORM XIV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

ICP-MS Instrument ID: MT_024 Start Date: 11/08/2011 End Date: 11/09/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
IC 280-95436/2	19:01	100		100		100		100		100	
IC 280-95436/3	19:04	101		100		101		102		101	
ICV 280-95436/4	19:06	100		100		100		100		99	
ICVL 280-95436/5	19:09	99		101		101		102		101	
ICB 280-95436/6	19:12	100		102		102		102		102	
CRI 280-95436/7	19:15	100		102		102		102		102	
ICSA 280-95436/9	19:21	90		87		87		85		89	
ICSAB 280-95436/10	19:24	91		85		85		85		89	
CCV 280-95436/14	19:35	96		99		100		101		100	
CCB 280-95436/15	19:38	98		99		102		101		101	
CCVL 280-95436/16	19:41	100		100		101		102		102	
CCV 280-95436/66	22:06	98		105		106		107		104	
CCB 280-95436/67	22:09	98		106		108		107		104	
CCVL 280-95436/68	22:12	98		107		107		108		105	
MB 280-94817/1-A	22:15	100		110		109		108		105	
LCS 280-94817/2-A	22:18	100		108		109		108		105	
280-22000-18	22:21	100		107		108		108		106	
280-22000-19	22:23	100		109		109		107		104	
CCV 280-95436/76	22:35	99		105		108		109		104	
CCB 280-95436/77	22:38	97		107		108		107		103	
CCVL 280-95436/78	22:41	98		106		108		107		103	
CCV 280-95436/86	23:04	91		103		105		106		102	
CCB 280-95436/87	23:07	92		105		106		106		103	
CCVL 280-95436/88	23:10	92		101		105		105		99	
CCV 280-95436/96	23:33	90		104		107		106		100	
CCB 280-95436/97	23:36	92		105		108		108		101	
CCVL 280-95436/98	23:38	93		106		107		107		101	
MB 280-93880/1-A	23:41	92		106		109		108		102	
LCS 280-93880/2-A	23:44	93		108		109		107		102	
280-22000-1	23:47	91		105		106		106		101	
280-22000-1 SD	23:50	92		104		109		106		102	
280-22000-1 PDS	23:53	92		104		106		104		101	
280-22000-1 MS	23:56	91		99		103		102		98	
280-22000-1 MSD	23:59	91		102		105		103		101	
280-22000-2	00:02	92		103		107		107		102	
280-22000-3	00:04	92		104		106		106		101	
280-22000-4	00:07	93		105		108		106		103	
CCV 280-95436/109	00:10	93		105		108		106		102	
CCB 280-95436/110	00:13	86		94		99		95		90	
CCVL 280-95436/111	00:16	94		105		107		107		102	
280-22000-5	00:19	93		104		106		106		101	
280-22000-6	00:22	93		103		106		106		102	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

ICP-MS Instrument ID: MT_024   Start Date: 11/08/2011 End Date: 11/09/2011

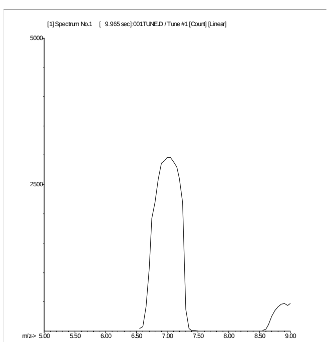
Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
280-22000-7	00:25	93		104		106		106		102	
280-22000-8	00:28	93		103		107		106		101	
280-22000-9	00:31	93		103		106		106		102	
280-22000-10	00:34	93		103		106		106		101	
280-22000-11	00:37	92		101		106		106		101	
280-22000-12	00:40	92		103		105		106		101	
280-22000-13	00:42	93		104		105		105		100	
CCV 280-95436/121	00:45	93		103		104		105		101	
CCB 280-95436/122	00:48	93		104		107		105		101	
CCVL 280-95436/123	00:51	93		104		106		106		101	

FORM XV - IN

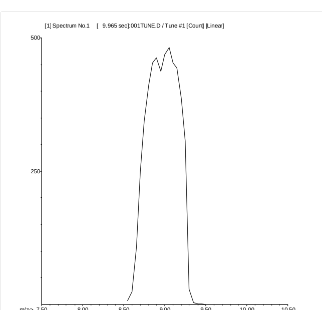
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\001TUNE.D
Date Acquired: Nov 8 2011 06:55 pm
Acq. Method: tun_isis.M
Operator: LRD
Sample Name: ITUNE-1109063
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

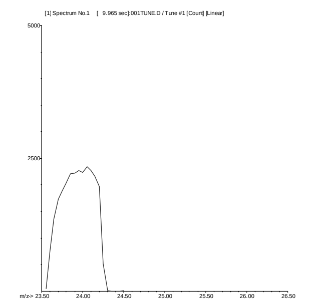
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	**%RSD**	Required	Flag
7 Li	30877	30494	30853	31133	31326	30580	**1.15**	5.00	
9 Be	5064	5072	5042	4928	5095	5184	**1.83**	5.00	
24 Mg	25982	25497	26170	25779	26260	26203	**1.27**	5.00	
59 Co	202515	201270	201238	201670	204410	203988	**0.77**	5.00	
115 In	2363324	2340149	2376232	2394274	2343161	2362807	**0.96**	5.00	
208 Pb	171594	171922	172722	170468	171672	171186	**0.49**	5.00	
238 U	312736	314914	314036	316112	309672	308944	**1.03**	5.00	



7 Li
Mass Calib.
Actual: 7.00
Required:6.90 - 7.10
Flag:
Peak Width
Actual: 0.65
Required:0.90
Flag:



9 Be
Mass Calib.
Actual: 8.95
Required:8.90 - 9.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



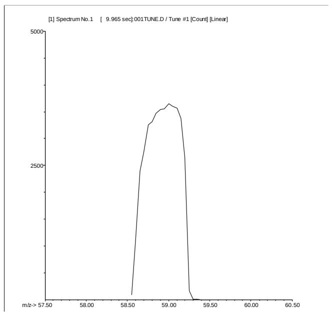
24 Mg

Mass Calib.

Actual: 24.00
Required:23.90 - 24.10
Flag:

Peak Width

Actual: 0.65
Required:0.90
Flag:



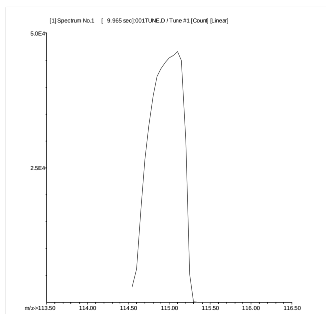
59 Co

Mass Calib.

Actual: 59.00
Required: 58.90 - 59.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



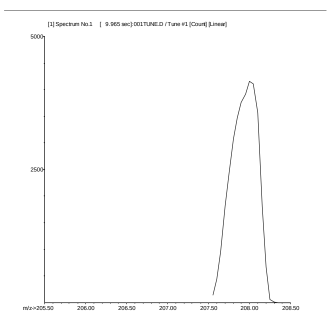
115 In

Mass Calib.

Actual: 115.05
Required: 114.90 - 115.10
Flag:

Peak Width

Actual: 0.60
Required: 0.90
Flag:



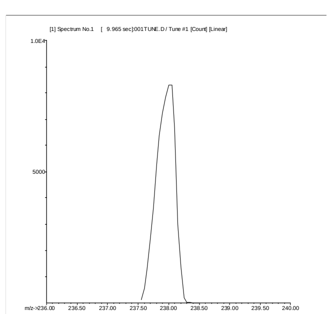
208 Pb

Mass Calib.

Actual: 208.00
Required: 207.90 - 208.10
Flag:

Peak Width

Actual: 0.55
Required: 0.90
Flag:



238 U

Mass Calib.

Actual: 238.00
Required: 237.90 - 238.10
Flag:

Peak Width

Actual: 0.55
Required: 0.90
Flag:

Tune Result: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#
Date Acquired:	Nov 8 2011 07:01 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1118467
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 06:59 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	3	173.21
51	V	72	1	120	627.47
52	Cr	72	1	7672	6.53
55	Mn	72	1	1040	2.54
59	Co	72	1	127	12.06
60	Ni	72	1	487	5.17
63	Cu	72	1	1170	17.45
66	Zn	72	1	418	2.09
75	As	72	1	91	3.37
78	Se	72	1	283	5.39
95	Mo	72	1	93	6.19
107	Ag	115	1	27	21.65
111	Cd	115	1	29	24.13
118	Sn	115	1	677	17.13
121	Sb	115	1	27	12.50
137	Ba	115	1	50	17.64
205	Tl	165	1	142	21.78
208	Pb	165	1	692	5.79
232	Th	165	1	130	20.35
238	U	165	1	79	12.91

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	534602	0.91
45	Sc	1	2551677	1.92
72	Ge	1	1553005	0.65
115	In	1	4260602	1.11
165	Ho	1	8806612	1.74

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\004ICAL.D\004ICAL.D#
Date Acquired:	Nov 8 2011 07:04 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1118450
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:02 pm
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	83260	0.87
51	V	72	1	2234696	2.06
52	Cr	72	1	2410353	1.53
55	Mn	72	1	2030584	1.30
59	Co	72	1	3275476	1.14
60	Ni	72	1	788254	0.92
63	Cu	72	1	2009116	0.96
66	Zn	72	1	357292	0.63
75	As	72	1	244869	0.35
78	Se	72	1	32731	2.33
95	Mo	72	1	918810	0.81
107	Ag	115	1	2842797	1.28
111	Cd	115	1	472644	0.51
118	Sn	115	1	1227720	0.63
121	Sb	115	1	1379185	0.36
137	Ba	115	1	530012	0.30
205	Tl	165	1	5016161	0.28
208	Pb	165	1	6984848	0.76
232	Th	165	1	6855643	1.42
238	U	165	1	7484493	0.84

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539952	0.57	534602	101.0	30 - 120	
45	Sc	1	2551001	1.35	2551677	100.0	30 - 120	
72	Ge	1	1567905	0.68	1553005	101.0	30 - 120	
115	In	1	4325443	1.91	4260602	101.5	30 - 120	
165	Ho	1	8886135	0.27	8806612	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Initial Calibration Verification (ICV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\005_ICV.D\005_ICV.D#
Date Acquired:	Nov 8 2011 07:06 pm
Operator:	LRD
Sample Name:	ICV-1118451
Misc Info:	
Vial Number:	2103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	ICV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.01	ppb	0.75	40	100.0	90 - 110	
51	V	72	1	40.21	ppb	2.67	40	100.5	90 - 110	
52	Cr	72	1	40.93	ppb	3.29	40	102.3	90 - 110	
55	Mn	72	1	40.82	ppb	1.89	40	102.1	90 - 110	
59	Co	72	1	40.80	ppb	1.34	40	102.0	90 - 110	
60	Ni	72	1	40.94	ppb	2.20	40	102.4	90 - 110	
63	Cu	72	1	39.54	ppb	2.72	40	98.9	90 - 110	
66	Zn	72	1	40.19	ppb	2.23	40	100.5	90 - 110	
75	As	72	1	41.71	ppb	1.45	40	104.3	90 - 110	
78	Se	72	1	42.32	ppb	4.51	40	105.8	90 - 110	
95	Mo	72	1	40.46	ppb	2.27	40	101.2	90 - 110	
107	Ag	115	1	40.78	ppb	0.74	40	102.0	90 - 110	
111	Cd	115	1	41.00	ppb	0.45	40	102.5	90 - 110	
118	Sn	115	1	39.46	ppb	1.08	40	98.7	90 - 110	
121	Sb	115	1	39.57	ppb	1.40	40	98.9	90 - 110	
137	Ba	115	1	40.77	ppb	1.58	40	101.9	90 - 110	
205	Tl	165	1	41.40	ppb	1.67	40	103.5	90 - 110	
208	Pb	165	1	41.66	ppb	1.35	40	104.2	90 - 110	
232	Th	165	1	42.39	ppb	1.77	40	106.0	90 - 110	
238	U	165	1	40.53	ppb	0.99	40	101.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532514	0.82	534602	99.6	30 - 120	
45	Sc	1	2562342	0.33	2551677	100.4	30 - 120	
72	Ge	1	1559886	1.81	1553005	100.4	30 - 120	
115	In	1	4281456	0.42	4260602	100.5	30 - 120	
165	Ho	1	8747750	1.01	8806612	99.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\006WASH.D\006WASH.D#
Date Acquired: Nov 8 2011 07:09 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.097 ppb	16.98	1.30	
51	V	72	1	5.011 ppb	2.83	6.50	
52	Cr	72	1	2.215 ppb	1.70	2.60	
55	Mn	72	1	1.206 ppb	0.57	1.30	
59	Co	72	1	1.098 ppb	0.87	1.30	
60	Ni	72	1	2.255 ppb	4.41	2.60	
63	Cu	72	1	2.179 ppb	2.67	2.60	
66	Zn	72	1	10.680 ppb	0.44	13.00	
75	As	72	1	5.293 ppb	3.46	6.50	
78	Se	72	1	5.442 ppb	9.32	6.50	
95	Mo	72	1	2.184 ppb	3.08	2.60	
107	Ag	115	1	5.106 ppb	1.05	6.50	
111	Cd	115	1	1.075 ppb	3.96	1.30	
118	Sn	115	1	9.854 ppb	0.71	13.00	
121	Sb	115	1	2.251 ppb	1.39	2.60	
137	Ba	115	1	1.143 ppb	2.21	1.30	
205	Tl	165	1	1.189 ppb	0.58	1.30	
208	Pb	165	1	1.103 ppb	1.64	1.30	
232	Th	165	1	2.129 ppb	1.56	2.60	
238	U	165	1	1.099 ppb	0.52	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	531363	1.47	534602	99.4	30 - 120	
45	Sc	1	2576934	0.44	2551677	101.0	30 - 120	
72	Ge	1	1574866	0.50	1553005	101.4	30 - 120	
115	In	1	4325243	0.73	4260602	101.5	30 - 120	
165	Ho	1	8919802	1.24	8806612	101.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\007_ICB.D\007_ICB.D#
Date Acquired: Nov 8 2011 07:12 pm
Operator: LRD
Sample Name: ICB-1118467
Misc Info:
Vial Number: 2104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: ICB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.01	ppb	2.49	1.00	
51	V	72	1	0.02	ppb	102.54	1.00	
52	Cr	72	1	0.00	ppb	113280.00	1.00	
55	Mn	72	1	0.05	ppb	21.16	1.00	
59	Co	72	1	0.00	ppb	8.06	1.00	
60	Ni	72	1	-0.01	ppb	70.37	1.00	
63	Cu	72	1	0.00	ppb	204.17	1.00	
66	Zn	72	1	0.04	ppb	16.66	1.00	
75	As	72	1	0.01	ppb	42.67	1.00	
78	Se	72	1	0.07	ppb	60.69	1.00	
95	Mo	72	1	0.02	ppb	142.68	1.00	
107	Ag	115	1	0.00	ppb	25.28	1.00	
111	Cd	115	1	0.00	ppb	169.56	1.00	
118	Sn	115	1	0.02	ppb	16.28	1.00	
121	Sb	115	1	0.05	ppb	15.53	1.00	
137	Ba	115	1	0.00	ppb	82.92	1.00	
205	Tl	165	1	0.02	ppb	7.30	1.00	
208	Pb	165	1	0.00	ppb	64.30	1.00	
232	Th	165	1	0.02	ppb	16.23	1.00	
238	U	165	1	0.00	ppb	17.42	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	534402	1.69	534602	100.0	30 - 120	
45	Sc	1	2596581	0.57	2551677	101.8	30 - 120	
72	Ge	1	1583967	0.47	1553005	102.0	30 - 120	
115	In	1	4332363	0.61	4260602	101.7	30 - 120	
165	Ho	1	8942333	1.35	8806612	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

RL STD QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\008RLST.D\008RLST.D#
Date Acquired: Nov 8 2011 07:15 pm
Operator: LRD
Sample Name: CRI-1118452
Misc Info:
Vial Number: 2105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: RLSTD
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1.09	ppb	18.52	1	108.8	80 - 120	
51	V	72	1	0.97	ppb	1.01	1	96.6	80 - 120	
52	Cr	72	1	0.96	ppb	1.62	1	95.6	80 - 120	
55	Mn	72	1	0.97	ppb	3.69	1	97.2	80 - 120	
59	Co	72	1	0.98	ppb	2.87	1	97.9	80 - 120	
60	Ni	72	1	0.99	ppb	2.82	1	99.1	80 - 120	
63	Cu	72	1	0.98	ppb	1.28	1	98.4	80 - 120	
66	Zn	72	1	10.08	ppb	2.06	10	100.8	80 - 120	
75	As	72	1	1.00	ppb	2.94	1	99.5	80 - 120	
78	Se	72	1	1.14	ppb	11.63	1	113.5	80 - 120	
95	Mo	72	1	0.95	ppb	3.70	1	95.3	80 - 120	
107	Ag	115	1	1.00	ppb	1.01	1	99.9	80 - 120	
111	Cd	115	1	0.95	ppb	1.40	1	95.4	80 - 120	
118	Sn	115	1	9.64	ppb	2.03	10	96.4	80 - 120	
121	Sb	115	1	1.00	ppb	1.94	1	99.8	80 - 120	
137	Ba	115	1	1.02	ppb	3.08	1	101.6	80 - 120	
205	Tl	165	1	1.00	ppb	0.54	1	100.2	80 - 120	
208	Pb	165	1	0.98	ppb	1.16	1	98.4	80 - 120	
232	Th	165	1	0.97	ppb	2.68	1	96.8	80 - 120	
238	U	165	1	1.00	ppb	2.10	1	99.9	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532464	1.10	534602	99.6	30 - 120	
45	Sc	1	2602954	0.64	2551677	102.0	30 - 120	
72	Ge	1	1582307	1.91	1553005	101.9	30 - 120	
115	In	1	4357284	0.24	4260602	102.3	30 - 120	
165	Ho	1	8965359	0.81	8806612	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

AFCEE RL QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\009AFCE.D\009AFCE.D#
Date Acquired: Nov 8 2011 07:18 pm
Operator: LRD
Sample Name: AFCEE RL-1118455
Misc Info:
Vial Number: 2106
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: AFCEERL
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	0.27	ppb	17.70	0	126.1	80 - 120	
51	V	72	1	0.19	ppb	9.27	0	98.2	80 - 120	
52	Cr	72	1	0.18	ppb	3.11	0	95.2	80 - 120	
55	Mn	72	1	0.19	ppb	8.42	0	99.6	80 - 120	
59	Co	72	1	0.20	ppb	0.60	0	100.3	80 - 120	
60	Ni	72	1	0.16	ppb	6.72	0	79.1	80 - 120	
63	Cu	72	1	0.17	ppb	3.96	0	88.3	80 - 120	
66	Zn	72	1	1.99	ppb	1.51	2	98.6	80 - 120	
75	As	72	1	0.19	ppb	14.78	0	95.5	80 - 120	
78	Se	72	1	0.27	ppb	43.08	0	120.0	80 - 120	
95	Mo	72	1	0.21	ppb	6.65	0	108.6	80 - 120	
107	Ag	115	1	0.19	ppb	4.29	0	96.6	80 - 120	
111	Cd	115	1	0.21	ppb	4.37	0	108.3	80 - 120	
118	Sn	115	1	1.86	ppb	1.48	2	96.4	80 - 120	
121	Sb	115	1	0.21	ppb	5.24	0	103.9	80 - 120	
137	Ba	115	1	0.20	ppb	2.61	0	100.4	80 - 120	
205	Tl	165	1	0.20	ppb	2.46	0	100.0	80 - 120	
208	Pb	165	1	0.19	ppb	1.02	0	98.2	80 - 120	
232	Th	165	1	0.19	ppb	5.11	0	98.8	80 - 120	
238	U	165	1	0.19	ppb	2.92	0	96.2	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	536157	0.82	534602	100.3	30 - 120	
45	Sc	1	2581722	2.05	2551677	101.2	30 - 120	
72	Ge	1	1592167	1.23	1553005	102.5	30 - 120	
115	In	1	4366673	0.32	4260602	102.5	30 - 120	
165	Ho	1	9003794	1.24	8806612	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\010ICSA.D\010ICSA.D#
Date Acquired:	Nov 8 2011 07:21 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	ICSA-1118457
Misc Info:	
Vial Number:	2108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	ICSA
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
9	Be	6	1	0.00 ppb	1642.20	1.00	
51	V	72	1	0.20 ppb	21.60	1.00	
52	Cr	72	1	1.10 ppb	2.99	1.00	
55	Mn	72	1	0.47 ppb	2.52	1.00	
59	Co	72	1	0.05 ppb	4.60	1.00	
60	Ni	72	1	0.78 ppb	1.98	1.00	
63	Cu	72	1	0.33 ppb	5.27	1.00	
66	Zn	72	1	2.67 ppb	0.63	10.00	
75	As	72	1	0.51 ppb	2.74	1.00	
78	Se	72	1	0.26 ppb	115.83	1.00	
95	Mo	72	1	2031.00 ppb	0.16	2000.00	
107	Ag	115	1	0.06 ppb	10.20	1.00	
111	Cd	115	1	0.56 ppb	7.58	1.00	
118	Sn	115	1	0.12 ppb	15.58	10.00	
121	Sb	115	1	0.29 ppb	0.86	1.00	
137	Ba	115	1	0.19 ppb	10.92	1.00	
205	Tl	165	1	0.03 ppb	14.56	1.00	
208	Pb	165	1	0.13 ppb	0.36	1.00	
232	Th	165	1	0.03 ppb	7.10	1.00	
238	U	165	1	0.00 ppb	5.68	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	479328	1.29	534602	89.7	30 - 120	
45	Sc	1	2213987	0.58	2551677	86.8	30 - 120	
72	Ge	1	1350445	0.21	1553005	87.0	30 - 120	
115	In	1	3640257	2.07	4260602	85.4	30 - 120	
165	Ho	1	7865956	0.43	8806612	89.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\011ICSB.D\011ICSB.D#
Date Acquired: Nov 8 2011 07:24 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: ICSAB-1118464
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9 Be	6	1	100.40	1.58	100	100.4	80 - 120	
51 V	72	1	102.50	2.22	100	102.5	80 - 120	
52 Cr	72	1	99.77	0.87	100	99.8	80 - 120	
55 Mn	72	1	100.00	1.36	100	100.0	80 - 120	
59 Co	72	1	96.00	0.85	100	96.0	80 - 120	
60 Ni	72	1	93.19	0.41	100	93.2	80 - 120	
63 Cu	72	1	90.77	0.67	100	90.8	80 - 120	
66 Zn	72	1	99.18	0.40	100	99.2	80 - 120	
75 As	72	1	105.30	0.39	100	105.3	80 - 120	
78 Se	72	1	109.90	3.79	100	109.9	80 - 120	
95 Mo	72	1	2161.00	0.33	2100	102.9	80 - 120	
107 Ag	115	1	90.42	2.87	100	90.4	80 - 120	
111 Cd	115	1	98.44	0.66	100	98.4	80 - 120	
118 Sn	115	1	97.68	0.44	100	97.7	80 - 120	
121 Sb	115	1	106.10	0.46	100	106.1	80 - 120	
137 Ba	115	1	105.30	0.66	100	105.3	80 - 120	
205 Tl	165	1	96.21	0.86	100	96.2	80 - 120	
208 Pb	165	1	95.94	0.17	100	95.9	80 - 120	
232 Th	165	1	102.80	1.56	100	102.8	80 - 120	
238 U	165	1	101.70	1.10	100	101.7	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	484521	0.47	534602	90.6	30 - 120	
45 Sc	1	2171664	0.79	2551677	85.1	30 - 120	
72 Ge	1	1321669	0.56	1553005	85.1	30 - 120	
115 In	1	3599608	0.92	4260602	84.5	30 - 120	
165 Ho	1	7867401	0.84	8806612	89.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\012WASH.D\012WASH.D#
Date Acquired: Nov 8 2011 07:27 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	-0.004 ppb	0.00	1.30	
51	V	72	1	0.008 ppb	15.98	6.50	
52	Cr	72	1	-0.009 ppb	76.49	2.60	
55	Mn	72	1	0.014 ppb	44.57	1.30	
59	Co	72	1	0.005 ppb	14.93	1.30	
60	Ni	72	1	-0.031 ppb	16.86	2.60	
63	Cu	72	1	0.004 ppb	40.12	2.60	
66	Zn	72	1	-0.017 ppb	45.87	13.00	
75	As	72	1	0.005 ppb	72.59	6.50	
78	Se	72	1	0.100 ppb	64.23	6.50	
95	Mo	72	1	0.362 ppb	2.75	2.60	
107	Ag	115	1	0.010 ppb	46.93	6.50	
111	Cd	115	1	0.012 ppb	66.14	1.30	
118	Sn	115	1	-0.011 ppb	88.80	13.00	
121	Sb	115	1	0.018 ppb	8.50	2.60	
137	Ba	115	1	0.008 ppb	26.22	1.30	
205	Tl	165	1	0.014 ppb	7.55	1.30	
208	Pb	165	1	0.007 ppb	15.17	1.30	
232	Th	165	1	0.025 ppb	3.54	2.60	
238	U	165	1	0.012 ppb	16.74	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	526540	0.76	534602	98.5	30 - 120	
45	Sc	1	2487839	1.79	2551677	97.5	30 - 120	
72	Ge	1	1542961	0.29	1553005	99.4	30 - 120	
115	In	1	4299153	1.73	4260602	100.9	30 - 120	
165	Ho	1	8856708	1.78	8806612	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Linear Dynamic Range Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\013_LR.D\013_LR.D#
Date Acquired:	Nov 8 2011 07:30 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	LRA-1118465
Misc Info:	
Vial Number:	2110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LR
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1018.00 ppb	2.26	1000	101.8	90 - 110	
51	V	72	1	920.00 ppb	1.91	1000	92.0	90 - 110	
52	Cr	72	1	935.10 ppb	2.31	1000	93.5	90 - 110	
55	Mn	72	1	958.20 ppb	1.32	1000	95.8	90 - 110	
59	Co	72	1	961.60 ppb	1.16	1000	96.2	90 - 110	
60	Ni	72	1	973.30 ppb	1.24	1000	97.3	90 - 110	
63	Cu	72	1	930.70 ppb	1.79	1000	93.1	90 - 110	
66	Zn	72	1	989.60 ppb	1.16	1000	99.0	90 - 110	
75	As	72	1	1011.00 ppb	1.49	1000	101.1	90 - 110	
78	Se	72	1	1014.00 ppb	1.52	1000	101.4	90 - 110	
95	Mo	72	1	972.70 ppb	1.54	1000	97.3	90 - 110	
107	Ag	115	1	977.10 ppb	1.46	1000	97.7	90 - 110	
111	Cd	115	1	1002.00 ppb	1.80	1000	100.2	90 - 110	
118	Sn	115	1	959.10 ppb	0.80	1000	95.9	90 - 110	
121	Sb	115	1	984.10 ppb	1.06	1000	98.4	90 - 110	
137	Ba	115	1	1026.00 ppb	1.63	1000	102.6	90 - 110	
205	Tl	165	1	996.20 ppb	1.69	1000	99.6	90 - 110	
208	Pb	165	1	977.80 ppb	1.34	1000	97.8	90 - 110	
232	Th	165	1	1012.00 ppb	1.27	1000	101.2	90 - 110	
238	U	165	1	999.60 ppb	1.88	1000	100.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	509542	2.07	534602	95.3	30 - 120	
45	Sc	1	2443155	1.55	2551677	95.7	30 - 120	
72	Ge	1	1540155	1.24	1553005	99.2	30 - 120	
115	In	1	4214409	1.80	4260602	98.9	30 - 120	
165	Ho	1	8927289	0.93	8806612	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\014WASH.D\014WASH.D#
Date Acquired: Nov 8 2011 07:32 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.059 ppb	74.23	1.30	
51	V	72	1	0.057 ppb	66.35	6.50	
52	Cr	72	1	0.038 ppb	85.95	2.60	
55	Mn	72	1	0.048 ppb	19.31	1.30	
59	Co	72	1	0.057 ppb	8.16	1.30	
60	Ni	72	1	0.023 ppb	38.56	2.60	
63	Cu	72	1	0.047 ppb	11.22	2.60	
66	Zn	72	1	0.050 ppb	12.18	13.00	
75	As	72	1	0.069 ppb	25.69	6.50	
78	Se	72	1	0.010 ppb	1862.20	6.50	
95	Mo	72	1	0.230 ppb	6.46	2.60	
107	Ag	115	1	0.089 ppb	11.11	6.50	
111	Cd	115	1	0.058 ppb	9.85	1.30	
118	Sn	115	1	0.363 ppb	13.58	13.00	
121	Sb	115	1	0.161 ppb	5.56	2.60	
137	Ba	115	1	0.060 ppb	20.47	1.30	
205	Tl	165	1	0.109 ppb	8.44	1.30	
208	Pb	165	1	0.058 ppb	17.09	1.30	
232	Th	165	1	0.154 ppb	7.41	2.60	
238	U	165	1	0.108 ppb	10.57	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	516423	0.84	534602	96.6	30 - 120	
45	Sc	1	2497630	0.21	2551677	97.9	30 - 120	
72	Ge	1	1554311	0.21	1553005	100.1	30 - 120	
115	In	1	4296007	0.20	4260602	100.8	30 - 120	
165	Ho	1	8831360	0.97	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\015_CCV.D\015_CCV.D#
Date Acquired:	Nov 8 2011 07:35 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.34	ppb	1.60	50	100.7	90 - 110	
51	V	72	1	49.96	ppb	0.54	50	99.9	90 - 110	
52	Cr	72	1	49.42	ppb	0.76	50	98.8	90 - 110	
55	Mn	72	1	50.64	ppb	2.02	50	101.3	90 - 110	
59	Co	72	1	50.39	ppb	1.74	50	100.8	90 - 110	
60	Ni	72	1	49.99	ppb	1.04	50	100.0	90 - 110	
63	Cu	72	1	48.63	ppb	1.60	50	97.3	90 - 110	
66	Zn	72	1	49.73	ppb	0.52	50	99.5	90 - 110	
75	As	72	1	50.08	ppb	1.25	50	100.2	90 - 110	
78	Se	72	1	52.04	ppb	3.35	50	104.1	90 - 110	
95	Mo	72	1	50.71	ppb	0.85	50	101.4	90 - 110	
107	Ag	115	1	50.11	ppb	1.42	50	100.2	90 - 110	
111	Cd	115	1	49.44	ppb	2.07	50	98.9	90 - 110	
118	Sn	115	1	47.95	ppb	0.80	50	95.9	90 - 110	
121	Sb	115	1	49.57	ppb	1.53	50	99.1	90 - 110	
137	Ba	115	1	50.88	ppb	1.97	50	101.8	90 - 110	
205	Tl	165	1	51.56	ppb	1.27	50	103.1	90 - 110	
208	Pb	165	1	50.48	ppb	0.52	50	101.0	90 - 110	
232	Th	165	1	51.47	ppb	0.61	50	102.9	90 - 110	
238	U	165	1	51.22	ppb	0.62	50	102.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	513383	0.76	534602	96.0	30 - 120	
45	Sc	1	2517785	0.24	2551677	98.7	30 - 120	
72	Ge	1	1547642	0.76	1553005	99.7	30 - 120	
115	In	1	4309535	1.36	4260602	101.1	30 - 120	
165	Ho	1	8802918	0.26	8806612	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\016_CCB.D\016_CCB.D#
Date Acquired:	Nov 8 2011 07:38 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	9514.00	1.00	
51	V	72	1	0.033	ppb	41.88	1.00	
52	Cr	72	1	0.015	ppb	97.42	1.00	
55	Mn	72	1	0.010	ppb	112.46	1.00	
59	Co	72	1	0.011	ppb	14.30	1.00	
60	Ni	72	1	-0.010	ppb	65.29	1.00	
63	Cu	72	1	0.001	ppb	302.28	1.00	
66	Zn	72	1	-0.010	ppb	133.96	1.00	
75	As	72	1	0.022	ppb	9.49	1.00	
78	Se	72	1	0.117	ppb	104.03	1.00	
95	Mo	72	1	0.053	ppb	25.69	1.00	
107	Ag	115	1	0.018	ppb	17.87	1.00	
111	Cd	115	1	0.013	ppb	19.04	1.00	
118	Sn	115	1	0.064	ppb	7.87	1.00	
121	Sb	115	1	0.040	ppb	7.03	1.00	
137	Ba	115	1	0.013	ppb	21.99	1.00	
205	Tl	165	1	0.025	ppb	6.09	1.00	
208	Pb	165	1	0.013	ppb	10.34	1.00	
232	Th	165	1	0.049	ppb	7.66	1.00	
238	U	165	1	0.020	ppb	3.91	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	522566	1.26	534602	97.7	30 - 120	
45	Sc	1	2535641	1.73	2551677	99.4	30 - 120	
72	Ge	1	1580821	0.86	1553005	101.8	30 - 120	
115	In	1	4303066	1.43	4260602	101.0	30 - 120	
165	Ho	1	8898335	0.46	8806612	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\017WASH.D\017WASH.D#
Date Acquired:	Nov 8 2011 07:41 pm
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.979 ppb	16.74	1.30	
51	V	72	1	5.034 ppb	0.56	6.50	
52	Cr	72	1	2.196 ppb	2.18	2.60	
55	Mn	72	1	1.246 ppb	1.38	1.30	
59	Co	72	1	1.120 ppb	0.41	1.30	
60	Ni	72	1	2.308 ppb	2.61	2.60	
63	Cu	72	1	2.232 ppb	1.07	2.60	
66	Zn	72	1	10.560 ppb	1.25	13.00	
75	As	72	1	5.253 ppb	1.19	6.50	
78	Se	72	1	5.668 ppb	9.05	6.50	
95	Mo	72	1	2.205 ppb	1.96	2.60	
107	Ag	115	1	5.215 ppb	1.00	6.50	
111	Cd	115	1	1.117 ppb	1.31	1.30	
118	Sn	115	1	9.991 ppb	2.61	13.00	
121	Sb	115	1	2.105 ppb	1.00	2.60	
137	Ba	115	1	1.162 ppb	3.44	1.30	
205	Tl	165	1	1.126 ppb	0.85	1.30	
208	Pb	165	1	1.109 ppb	1.44	1.30	
232	Th	165	1	2.106 ppb	1.34	2.60	
238	U	165	1	1.101 ppb	0.97	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	534448	0.33	534602	100.0	30 - 120	
45	Sc	1	2538647	1.37	2551677	99.5	30 - 120	
72	Ge	1	1570185	1.05	1553005	101.1	30 - 120	
115	In	1	4326908	0.38	4260602	101.6	30 - 120	
165	Ho	1	9026221	0.59	8806612	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\018_BLK.D\018_BLK.D#
Date Acquired: Nov 8 2011 07:44 pm
Operator: LRD
Sample Name: mb 280-92644/1-a
Misc Info: BLANK 92644 Soil DoD4/6020A
Vial Number: 2201
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.012 ppb	151.79	2.00	
51	V	72	1	0.037 ppb	12.28	2.00	
52	Cr	72	1	0.101 ppb	18.46	2.00	
55	Mn	72	1	0.221 ppb	4.98	2.00	
59	Co	72	1	0.008 ppb	16.08	2.00	
60	Ni	72	1	0.328 ppb	10.60	2.00	
63	Cu	72	1	0.410 ppb	4.18	2.00	
66	Zn	72	1	0.975 ppb	1.94	2.00	
75	As	72	1	0.017 ppb	34.62	2.00	
78	Se	72	1	0.059 ppb	218.07	2.00	
95	Mo	72	1	0.035 ppb	10.08	2.00	
107	Ag	115	1	0.013 ppb	12.10	2.00	
111	Cd	115	1	0.007 ppb	38.10	2.00	
118	Sn	115	1	0.099 ppb	6.29	2.00	
121	Sb	115	1	0.021 ppb	8.49	2.00	
137	Ba	115	1	0.509 ppb	2.31	2.00	
205	Tl	165	1	0.010 ppb	6.35	2.00	
208	Pb	165	1	0.035 ppb	5.32	2.00	
232	Th	165	1	0.023 ppb	6.12	2.00	
238	U	165	1	0.012 ppb	7.53	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532062	0.32	534602	99.5	30 - 120	
45	Sc	1	2607285	1.81	2551677	102.2	30 - 120	
72	Ge	1	1596260	2.14	1553005	102.8	30 - 120	
115	In	1	4398100	0.97	4260602	103.2	30 - 120	
165	Ho	1	9008031	0.63	8806612	102.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\019_LCS.D\019_LCS.D#
Date Acquired:	Nov 8 2011 07:47 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-92644/2-a
Misc Info:	LCS
Vial Number:	2202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	42.63	1.13	40	106.6	80 - 120	
51 V	72	1	42.24	2.22	40	105.6	80 - 120	
52 Cr	72	1	43.68	2.95	40	109.2	80 - 120	
55 Mn	72	1	42.63	3.11	40	106.6	80 - 120	
59 Co	72	1	42.83	2.05	40	107.1	80 - 120	
60 Ni	72	1	42.55	0.91	40	106.4	80 - 120	
63 Cu	72	1	41.57	1.91	40	103.9	80 - 120	
66 Zn	72	1	41.87	1.32	40	104.7	80 - 120	
75 As	72	1	42.21	1.51	40	105.5	80 - 120	
78 Se	72	1	42.77	5.65	40	106.9	80 - 120	
95 Mo	72	1	43.14	1.20	40	107.9	80 - 120	
107 Ag	115	1	42.51	2.54	40	106.3	80 - 120	
111 Cd	115	1	42.12	2.70	40	105.3	80 - 120	
118 Sn	115	1	40.95	0.88	40	102.4	80 - 120	
121 Sb	115	1	41.57	1.53	40	103.9	80 - 120	
137 Ba	115	1	43.36	1.22	40	108.4	80 - 120	
205 Tl	165	1	44.04	1.03	40	110.1	80 - 120	
208 Pb	165	1	42.83	1.07	40	107.1	80 - 120	
232 Th	165	1	42.59	0.21	40	106.5	80 - 120	
238 U	165	1	43.67	0.68	40	109.2	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	535943	1.55	534602	100.3	30 - 120	
45 Sc	1	2571767	0.99	2551677	100.8	30 - 120	
72 Ge	1	1592980	0.91	1553005	102.6	30 - 120	
115 In	1	4400623	1.71	4260602	103.3	30 - 120	
165 Ho	1	9001305	0.79	8806612	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\020SMPL.D\020SMPL.D#
Date Acquired: Nov 8 2011 07:50 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-50-b
Misc Info:
Vial Number: 2203
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.26	0.26	ppb	9.68	3600	
51	V	72	1	16.89	16.89	ppb	0.62	3600	
52	Cr	72	1	7.83	7.83	ppb	1.19	3600	
55	Mn	72	1	51.48	51.48	ppb	2.40	18000	
59	Co	72	1	0.79	0.79	ppb	5.91	3600	
60	Ni	72	1	3.23	3.23	ppb	1.70	3600	
63	Cu	72	1	2.09	2.09	ppb	2.19	3600	
66	Zn	72	1	13.29	13.29	ppb	0.64	3600	
75	As	72	1	3.56	3.56	ppb	1.50	3600	
78	Se	72	1	1.07	1.07	ppb	19.80	3600	
95	Mo	72	1	0.60	0.60	ppb	2.41	3600	
107	Ag	115	1	0.05	0.05	ppb	17.33	3600	
111	Cd	115	1	0.04	0.04	ppb	37.70	3600	
118	Sn	115	1	0.15	0.15	ppb	6.44	3600	
121	Sb	115	1	0.04	0.04	ppb	7.68	3600	
137	Ba	115	1	6.35	6.35	ppb	2.16	3600	
205	Tl	165	1	0.11	0.11	ppb	1.36	3600	
208	Pb	165	1	11.90	11.90	ppb	0.81	3600	
232	Th	165	1	9.94	9.94	ppb	2.59	1000	
238	U	165	1	1.53	1.53	ppb	1.68	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552532	0.43	534602	103.4	30 - 120	
45	Sc	1	2697449	1.08	2551677	105.7	30 - 120	
72	Ge	1	1632659	1.66	1553005	105.1	30 - 120	
115	In	1	4391405	1.13	4260602	103.1	30 - 120	
165	Ho	1	9323203	1.20	8806612	105.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\021SMPL.D\021SMPL.D#
Date Acquired:	Nov 8 2011 07:53 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-51-f
Misc Info:	
Vial Number:	2204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	12.66	3600	
51	V	72	1	20.53	20.53	ppb	0.97	3600	
52	Cr	72	1	8.68	8.68	ppb	0.90	3600	
55	Mn	72	1	59.81	59.81	ppb	0.99	18000	
59	Co	72	1	0.91	0.91	ppb	3.03	3600	
60	Ni	72	1	3.63	3.63	ppb	3.95	3600	
63	Cu	72	1	2.06	2.06	ppb	0.91	3600	
66	Zn	72	1	13.31	13.31	ppb	0.97	3600	
75	As	72	1	4.33	4.33	ppb	1.45	3600	
78	Se	72	1	1.51	1.51	ppb	9.70	3600	
95	Mo	72	1	0.59	0.59	ppb	0.65	3600	
107	Ag	115	1	0.03	0.03	ppb	6.85	3600	
111	Cd	115	1	0.03	0.03	ppb	4.94	3600	
118	Sn	115	1	0.11	0.11	ppb	7.90	3600	
121	Sb	115	1	0.03	0.03	ppb	8.21	3600	
137	Ba	115	1	6.37	6.37	ppb	1.69	3600	
205	Tl	165	1	0.10	0.10	ppb	4.03	3600	
208	Pb	165	1	12.00	12.00	ppb	0.59	3600	
232	Th	165	1	10.32	10.32	ppb	0.59	1000	
238	U	165	1	1.61	1.61	ppb	1.03	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552047	0.96	534602	103.3	30 - 120	
45	Sc	1	2719914	1.84	2551677	106.6	30 - 120	
72	Ge	1	1650639	2.00	1553005	106.3	30 - 120	
115	In	1	4506994	0.93	4260602	105.8	30 - 120	
165	Ho	1	9275395	0.83	8806612	105.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\022SMPL.D\022SMPL.D#
Date Acquired:	Nov 8 2011 07:55 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-59-b
Misc Info:	
Vial Number:	2205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.14	0.14	ppb	63.34	3600	
51	V	72	1	12.54	12.54	ppb	1.62	3600	
52	Cr	72	1	5.25	5.25	ppb	0.27	3600	
55	Mn	72	1	29.87	29.87	ppb	0.42	18000	
59	Co	72	1	0.45	0.45	ppb	3.51	3600	
60	Ni	72	1	1.84	1.84	ppb	2.69	3600	
63	Cu	72	1	2.14	2.14	ppb	0.80	3600	
66	Zn	72	1	7.67	7.67	ppb	1.25	3600	
75	As	72	1	2.87	2.87	ppb	0.12	3600	
78	Se	72	1	1.33	1.33	ppb	13.07	3600	
95	Mo	72	1	0.41	0.41	ppb	0.55	3600	
107	Ag	115	1	0.03	0.03	ppb	18.32	3600	
111	Cd	115	1	0.04	0.04	ppb	39.78	3600	
118	Sn	115	1	0.07	0.07	ppb	18.30	3600	
121	Sb	115	1	0.03	0.03	ppb	14.60	3600	
137	Ba	115	1	6.22	6.22	ppb	1.11	3600	
205	Tl	165	1	0.08	0.08	ppb	1.16	3600	
208	Pb	165	1	11.15	11.15	ppb	0.87	3600	
232	Th	165	1	8.35	8.35	ppb	1.85	1000	
238	U	165	1	1.25	1.25	ppb	0.52	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551553	1.31	534602	103.2	30 - 120	
45	Sc	1	2721679	0.83	2551677	106.7	30 - 120	
72	Ge	1	1656734	1.00	1553005	106.7	30 - 120	
115	In	1	4508048	1.07	4260602	105.8	30 - 120	
165	Ho	1	9289618	0.45	8806612	105.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\023SMPL.D\023SMPL.D#
Date Acquired:	Nov 8 2011 07:58 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-60-d
Misc Info:	
Vial Number:	2206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.05	0.05	ppb	41.54	3600	
51	V	72	1	12.72	12.72	ppb	1.51	3600	
52	Cr	72	1	5.09	5.09	ppb	1.99	3600	
55	Mn	72	1	29.95	29.95	ppb	1.92	18000	
59	Co	72	1	0.44	0.44	ppb	2.06	3600	
60	Ni	72	1	1.80	1.80	ppb	2.08	3600	
63	Cu	72	1	1.65	1.65	ppb	3.50	3600	
66	Zn	72	1	7.06	7.06	ppb	0.63	3600	
75	As	72	1	2.77	2.77	ppb	1.31	3600	
78	Se	72	1	1.32	1.32	ppb	30.02	3600	
95	Mo	72	1	0.40	0.40	ppb	1.79	3600	
107	Ag	115	1	0.03	0.03	ppb	2.84	3600	
111	Cd	115	1	0.03	0.03	ppb	12.49	3600	
118	Sn	115	1	0.10	0.10	ppb	12.60	3600	
121	Sb	115	1	0.03	0.03	ppb	5.13	3600	
137	Ba	115	1	6.01	6.01	ppb	2.36	3600	
205	Tl	165	1	0.08	0.08	ppb	2.31	3600	
208	Pb	165	1	11.37	11.37	ppb	0.95	3600	
232	Th	165	1	9.58	9.58	ppb	0.63	1000	
238	U	165	1	1.30	1.30	ppb	1.01	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	550076	1.88	534602	102.9	30 - 120	
45	Sc	1	2709752	0.61	2551677	106.2	30 - 120	
72	Ge	1	1654173	1.25	1553005	106.5	30 - 120	
115	In	1	4544248	0.23	4260602	106.7	30 - 120	
165	Ho	1	9283591	1.35	8806612	105.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\024AREF.D\024AREF.D#
Date Acquired: Nov 8 2011 08:01 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-61-b
Misc Info:
Vial Number: 2207
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	7.42	3600	
51	V	72	1	16.32	16.32	ppb	4.07	3600	
52	Cr	72	1	9.28	9.28	ppb	3.07	3600	
55	Mn	72	1	39.91	39.91	ppb	2.64	18000	
59	Co	72	1	0.90	0.90	ppb	2.35	3600	
60	Ni	72	1	4.54	4.54	ppb	2.56	3600	
63	Cu	72	1	2.12	2.12	ppb	0.81	3600	
66	Zn	72	1	10.92	10.92	ppb	0.88	3600	
75	As	72	1	3.33	3.33	ppb	1.85	3600	
78	Se	72	1	1.28	1.28	ppb	9.69	3600	
95	Mo	72	1	0.44	0.44	ppb	4.93	3600	
107	Ag	115	1	0.04	0.04	ppb	7.14	3600	
111	Cd	115	1	0.06	0.06	ppb	33.98	3600	
118	Sn	115	1	0.18	0.18	ppb	2.68	3600	
121	Sb	115	1	0.02	0.02	ppb	9.50	3600	
137	Ba	115	1	10.30	10.30	ppb	2.34	3600	
205	Tl	165	1	0.10	0.10	ppb	2.04	3600	
208	Pb	165	1	8.73	8.73	ppb	3.26	3600	
232	Th	165	1	10.34	10.34	ppb	2.77	1000	
238	U	165	1	1.44	1.44	ppb	2.93	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	547000	0.47	534602	102.3	30 - 120	
45	Sc	1	2704075	0.60	2551677	106.0	30 - 120	
72	Ge	1	1641356	1.58	1553005	105.7	30 - 120	
115	In	1	4477705	0.24	4260602	105.1	30 - 120	
165	Ho	1	9268789	1.83	8806612	105.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\025SDIL.D\025SDIL.D#
Date Acquired: Nov 8 2011 08:04 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-61-b SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2208
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\024AREF.D\024AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.11	ppb	16.53	0.06	180.3	90 - 110	
51 V	72	1	3.25	ppb	2.63	3.26	99.4	90 - 110	
52 Cr	72	1	1.84	ppb	1.30	1.86	99.0	90 - 110	
55 Mn	72	1	7.86	ppb	2.78	7.98	98.5	90 - 110	
59 Co	72	1	0.19	ppb	2.17	0.18	103.1	90 - 110	
60 Ni	72	1	0.89	ppb	1.90	0.91	98.1	90 - 110	
63 Cu	72	1	0.42	ppb	6.19	0.42	98.0	90 - 110	
66 Zn	72	1	4.08	ppb	1.79	2.18	187.0	90 - 110	
75 As	72	1	0.68	ppb	0.66	0.67	101.5	90 - 110	
78 Se	72	1	0.18	ppb	113.61	0.26	69.8	90 - 110	
95 Mo	72	1	0.09	ppb	3.39	0.09	102.7	90 - 110	
107 Ag	115	1	0.01	ppb	19.13	0.01	91.0	90 - 110	
111 Cd	115	1	0.02	ppb	26.42	0.01	144.4	90 - 110	
118 Sn	115	1	0.04	ppb	19.45	0.04	113.3	90 - 110	
121 Sb	115	1	0.01	ppb	11.25	0.00	165.6	90 - 110	
137 Ba	115	1	2.07	ppb	1.36	2.06	100.4	90 - 110	
205 Tl	165	1	0.02	ppb	9.90	0.02	120.1	90 - 110	
208 Pb	165	1	1.77	ppb	0.64	1.75	101.4	90 - 110	
232 Th	165	1	2.05	ppb	1.14	2.07	99.1	90 - 110	
238 U	165	1	0.29	ppb	1.75	0.29	101.0	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	551770	1.43	534602	103.2	30 - 120	
45 Sc	1	2731360	0.71	2551677	107.0	30 - 120	
72 Ge	1	1672895	0.64	1553005	107.7	30 - 120	
115 In	1	4516313	0.57	4260602	106.0	30 - 120	
165 Ho	1	9272644	0.29	8806612	105.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\026_CCV.D\026_CCV.D#
Date Acquired:	Nov 8 2011 08:07 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.80	ppb	2.20	50	103.6	90 - 110	
51	V	72	1	50.79	ppb	1.83	50	101.6	90 - 110	
52	Cr	72	1	50.27	ppb	2.19	50	100.5	90 - 110	
55	Mn	72	1	51.42	ppb	1.96	50	102.8	90 - 110	
59	Co	72	1	50.97	ppb	1.01	50	101.9	90 - 110	
60	Ni	72	1	50.21	ppb	1.40	50	100.4	90 - 110	
63	Cu	72	1	49.82	ppb	1.68	50	99.6	90 - 110	
66	Zn	72	1	49.28	ppb	0.64	50	98.6	90 - 110	
75	As	72	1	50.21	ppb	0.84	50	100.4	90 - 110	
78	Se	72	1	52.12	ppb	3.78	50	104.2	90 - 110	
95	Mo	72	1	50.51	ppb	1.35	50	101.0	90 - 110	
107	Ag	115	1	51.54	ppb	0.86	50	103.1	90 - 110	
111	Cd	115	1	50.01	ppb	0.89	50	100.0	90 - 110	
118	Sn	115	1	48.79	ppb	1.49	50	97.6	90 - 110	
121	Sb	115	1	50.04	ppb	0.83	50	100.1	90 - 110	
137	Ba	115	1	51.68	ppb	1.09	50	103.4	90 - 110	
205	Tl	165	1	51.56	ppb	1.71	50	103.1	90 - 110	
208	Pb	165	1	49.96	ppb	1.02	50	99.9	90 - 110	
232	Th	165	1	50.55	ppb	0.93	50	101.1	90 - 110	
238	U	165	1	49.71	ppb	2.48	50	99.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539437	0.91	534602	100.9	30 - 120	
45	Sc	1	2681668	1.38	2551677	105.1	30 - 120	
72	Ge	1	1644661	1.54	1553005	105.9	30 - 120	
115	In	1	4442205	0.52	4260602	104.3	30 - 120	
165	Ho	1	9091904	1.95	8806612	103.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\027_CCB.D\027_CCB.D#
Date Acquired:	Nov 8 2011 08:10 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	30313.00	1.00	
51	V	72	1	0.009	ppb	231.83	1.00	
52	Cr	72	1	-0.007	ppb	44.25	1.00	
55	Mn	72	1	0.005	ppb	15.26	1.00	
59	Co	72	1	0.007	ppb	5.24	1.00	
60	Ni	72	1	-0.019	ppb	49.73	1.00	
63	Cu	72	1	-0.008	ppb	82.26	1.00	
66	Zn	72	1	-0.022	ppb	72.68	1.00	
75	As	72	1	0.013	ppb	76.66	1.00	
78	Se	72	1	0.215	ppb	71.33	1.00	
95	Mo	72	1	0.022	ppb	11.65	1.00	
107	Ag	115	1	0.010	ppb	22.70	1.00	
111	Cd	115	1	0.002	ppb	103.23	1.00	
118	Sn	115	1	0.008	ppb	82.60	1.00	
121	Sb	115	1	0.016	ppb	3.57	1.00	
137	Ba	115	1	0.005	ppb	72.46	1.00	
205	Tl	165	1	0.019	ppb	5.20	1.00	
208	Pb	165	1	0.007	ppb	12.36	1.00	
232	Th	165	1	0.041	ppb	4.34	1.00	
238	U	165	1	0.009	ppb	11.39	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541315	1.07	534602	101.3	30 - 120	
45	Sc	1	2661771	0.82	2551677	104.3	30 - 120	
72	Ge	1	1629940	0.65	1553005	105.0	30 - 120	
115	In	1	4500934	1.00	4260602	105.6	30 - 120	
165	Ho	1	9070420	0.52	8806612	103.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\028WASH.D\028WASH.D#
Date Acquired: Nov 8 2011 08:13 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.149 ppb	7.59	1.30	
51	V	72	1	5.044 ppb	0.75	6.50	
52	Cr	72	1	2.176 ppb	0.63	2.60	
55	Mn	72	1	1.236 ppb	2.21	1.30	
59	Co	72	1	1.099 ppb	1.98	1.30	
60	Ni	72	1	2.214 ppb	1.52	2.60	
63	Cu	72	1	2.177 ppb	3.68	2.60	
66	Zn	72	1	10.450 ppb	0.59	13.00	
75	As	72	1	5.215 ppb	0.55	6.50	
78	Se	72	1	5.790 ppb	3.19	6.50	
95	Mo	72	1	2.208 ppb	4.26	2.60	
107	Ag	115	1	5.064 ppb	0.36	6.50	
111	Cd	115	1	1.080 ppb	2.87	1.30	
118	Sn	115	1	9.805 ppb	1.84	13.00	
121	Sb	115	1	2.088 ppb	1.30	2.60	
137	Ba	115	1	1.139 ppb	2.42	1.30	
205	Tl	165	1	1.129 ppb	0.71	1.30	
208	Pb	165	1	1.105 ppb	1.68	1.30	
232	Th	165	1	2.115 ppb	2.23	2.60	
238	U	165	1	1.083 ppb	0.56	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541533	0.89	534602	101.3	30 - 120	
45	Sc	1	2653998	1.21	2551677	104.0	30 - 120	
72	Ge	1	1651823	0.80	1553005	106.4	30 - 120	
115	In	1	4504296	0.47	4260602	105.7	30 - 120	
165	Ho	1	9060288	0.18	8806612	102.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\029PDS.D\029PDS.D#
Date Acquired:	Nov 8 2011 08:16 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-61-b PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	2209
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00
Spike Ref. File:	---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	213.70	0.30	ppb	1.64	200	106.7	75 - 125	
51 V	72	1	215.90	16.32	ppb	1.50	200	99.8	75 - 125	
52 Cr	72	1	209.60	9.28	ppb	1.75	200	100.2	75 - 125	
55 Mn	72	1	241.90	39.91	ppb	1.74	200	100.8	75 - 125	
59 Co	72	1	201.80	0.90	ppb	2.15	200	100.4	75 - 125	
60 Ni	72	1	214.80	4.54	ppb	0.91	200	105.0	75 - 125	
63 Cu	72	1	201.50	2.12	ppb	1.31	200	99.7	75 - 125	
66 Zn	72	1	210.80	10.92	ppb	1.06	200	99.9	75 - 125	
75 As	72	1	212.80	3.33	ppb	0.93	200	104.7	75 - 125	
78 Se	72	1	215.60	1.28	ppb	2.08	200	107.1	75 - 125	
95 Mo	72	1	212.60	0.44	ppb	1.49	200	106.1	75 - 125	
107 Ag	115	1	51.80	0.04	ppb	0.75	50	103.5	75 - 125	
111 Cd	115	1	211.60	0.06	ppb	2.14	200	105.8	75 - 125	
118 Sn	115	1	207.90	0.18	ppb	2.57	200	103.9	75 - 125	
121 Sb	115	1	209.80	0.02	ppb	1.72	200	104.9	75 - 125	
137 Ba	115	1	231.60	10.30	ppb	1.71	200	110.1	75 - 125	
205 Tl	165	1	203.80	0.10	ppb	1.44	200	101.8	75 - 125	
208 Pb	165	1	208.10	8.73	ppb	0.74	200	99.7	75 - 125	
232 Th	165	1	10.22	10.34	ppb	1.09	200	4.9	75 - 125	
238 U	165	1	199.00	1.44	ppb	1.39	200	98.8	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	551009	0.62	534602	103.1	30 - 120	
45 Sc	1	2671654	0.52	2551677	104.7	30 - 120	
72 Ge	1	1628602	0.85	1553005	104.9	30 - 120	
115 In	1	4454965	0.95	4260602	104.6	30 - 120	
165 Ho	1	9371074	0.69	8806612	106.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\030_MS.D\030_MS.D#
Date Acquired: Nov 8 2011 08:19 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-61-c ms
Misc Info: MATRIX SPIKE
Vial Number: 2210
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	43.57	0.30	ppb	0.65	40	108.1	50 - 150	
51 V	72	1	64.87	16.32	ppb	1.56	40	115.2	50 - 150	
52 Cr	72	1	54.36	9.28	ppb	0.16	40	110.3	50 - 150	
55 Mn	72	1	95.08	39.91	ppb	1.90	40	119.0	50 - 150	
59 Co	72	1	43.75	0.90	ppb	1.06	40	107.0	50 - 150	
60 Ni	72	1	47.27	4.54	ppb	0.65	40	106.1	50 - 150	
63 Cu	72	1	42.38	2.12	ppb	0.89	40	100.6	50 - 150	
66 Zn	72	1	54.42	10.92	ppb	0.41	40	106.9	50 - 150	
75 As	72	1	44.31	3.33	ppb	0.80	40	102.3	50 - 150	
78 Se	72	1	42.30	1.28	ppb	1.90	40	102.5	50 - 150	
95 Mo	72	1	39.25	0.44	ppb	1.33	40	97.1	50 - 150	
107 Ag	115	1	41.92	0.04	ppb	0.56	40	104.7	50 - 150	
111 Cd	115	1	42.22	0.06	ppb	1.42	40	105.4	50 - 150	
118 Sn	115	1	14.07	0.18	ppb	1.44	40	35.0	50 - 150	
121 Sb	115	1	6.97	0.02	ppb	2.10	40	17.4	50 - 150	
137 Ba	115	1	55.47	10.30	ppb	1.57	40	110.3	50 - 150	
205 Tl	165	1	43.59	0.10	ppb	1.28	40	108.7	50 - 150	
208 Pb	165	1	50.37	8.73	ppb	1.14	40	103.4	50 - 150	
232 Th	165	1	54.82	10.34	ppb	1.90	40	108.9	50 - 150	
238 U	165	1	44.39	1.44	ppb	1.77	40	107.1	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	556610	0.79	534602	104.1	30 - 120	
45 Sc	1	2703654	1.48	2551677	106.0	30 - 120	
72 Ge	1	1661483	0.85	1553005	107.0	30 - 120	
115 In	1	4487818	1.23	4260602	105.3	30 - 120	
165 Ho	1	9194975	1.00	8806612	104.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\031_MSD.D\031_MSD.D#
Date Acquired:	Nov 8 2011 08:22 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-61-d msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	2211
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\030_MS.D\030_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	44.88	ppb	0.18	43.57	2.96	20	
51	V	72	1	63.77	ppb	1.32	64.87	1.71	20	
52	Cr	72	1	54.68	ppb	2.07	54.36	0.59	20	
55	Mn	72	1	93.73	ppb	1.11	95.08	1.43	20	
59	Co	72	1	44.00	ppb	0.81	43.75	0.57	20	
60	Ni	72	1	47.72	ppb	0.31	47.27	0.95	20	
63	Cu	72	1	42.61	ppb	0.97	42.38	0.54	20	
66	Zn	72	1	53.73	ppb	0.59	54.42	1.28	20	
75	As	72	1	44.45	ppb	0.88	44.31	0.32	20	
78	Se	72	1	43.52	ppb	4.24	42.30	2.84	20	
95	Mo	72	1	39.45	ppb	0.14	39.25	0.51	20	
107	Ag	115	1	41.63	ppb	1.07	41.92	0.69	20	
111	Cd	115	1	42.19	ppb	0.84	42.22	0.07	20	
118	Sn	115	1	14.00	ppb	0.59	14.07	0.50	20	
121	Sb	115	1	6.55	ppb	0.79	6.97	6.20	20	
137	Ba	115	1	58.36	ppb	1.56	55.47	5.08	20	
205	Tl	165	1	42.93	ppb	0.65	43.59	1.53	20	
208	Pb	165	1	49.33	ppb	1.02	50.37	2.09	20	
232	Th	165	1	52.64	ppb	2.18	54.82	4.06	20	
238	U	165	1	43.76	ppb	1.48	44.39	1.43	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552178	0.42	534602	103.3	30 - 120	
45	Sc	1	2671501	1.57	2551677	104.7	30 - 120	
72	Ge	1	1648957	1.13	1553005	106.2	30 - 120	
115	In	1	4506349	1.14	4260602	105.8	30 - 120	
165	Ho	1	9292729	0.70	8806612	105.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\032SMPL.D\032SMPL.D#
Date Acquired:	Nov 8 2011 08:24 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-63-b
Misc Info:	
Vial Number:	2212
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.24	0.24	ppb	22.76	3600	
51	V	72	1	19.04	19.04	ppb	1.72	3600	
52	Cr	72	1	8.72	8.72	ppb	1.05	3600	
55	Mn	72	1	58.26	58.26	ppb	1.32	18000	
59	Co	72	1	0.80	0.80	ppb	1.03	3600	
60	Ni	72	1	3.42	3.42	ppb	1.43	3600	
63	Cu	72	1	2.49	2.49	ppb	1.43	3600	
66	Zn	72	1	15.15	15.15	ppb	0.28	3600	
75	As	72	1	4.20	4.20	ppb	2.64	3600	
78	Se	72	1	1.48	1.48	ppb	10.89	3600	
95	Mo	72	1	0.63	0.63	ppb	7.66	3600	
107	Ag	115	1	0.04	0.04	ppb	16.75	3600	
111	Cd	115	1	0.08	0.08	ppb	27.34	3600	
118	Sn	115	1	0.16	0.16	ppb	20.11	3600	
121	Sb	115	1	0.04	0.04	ppb	8.21	3600	
137	Ba	115	1	10.97	10.97	ppb	1.86	3600	
205	Tl	165	1	0.13	0.13	ppb	0.59	3600	
208	Pb	165	1	16.65	16.65	ppb	0.14	3600	
232	Th	165	1	10.59	10.59	ppb	0.52	1000	
238	U	165	1	1.58	1.58	ppb	0.29	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551749	1.12	534602	103.2	30 - 120	
45	Sc	1	2690517	2.56	2551677	105.4	30 - 120	
72	Ge	1	1632594	0.69	1553005	105.1	30 - 120	
115	In	1	4499400	1.60	4260602	105.6	30 - 120	
165	Ho	1	9217805	0.63	8806612	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\033SMPL.D\033SMPL.D#
Date Acquired: Nov 8 2011 08:27 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-64-d
Misc Info:
Vial Number: 2301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.30	0.30	ppb	7.82	3600	
51 V	72	1	22.30	22.30	ppb	1.68	3600	
52 Cr	72	1	14.21	14.21	ppb	1.41	3600	
55 Mn	72	1	49.04	49.04	ppb	2.20	18000	
59 Co	72	1	1.48	1.48	ppb	2.36	3600	
60 Ni	72	1	6.65	6.65	ppb	1.65	3600	
63 Cu	72	1	2.18	2.18	ppb	0.96	3600	
66 Zn	72	1	14.74	14.74	ppb	0.56	3600	
75 As	72	1	5.16	5.16	ppb	2.32	3600	
78 Se	72	1	1.61	1.61	ppb	16.86	3600	
95 Mo	72	1	0.67	0.67	ppb	0.61	3600	
107 Ag	115	1	0.03	0.03	ppb	12.01	3600	
111 Cd	115	1	0.08	0.08	ppb	5.85	3600	
118 Sn	115	1	0.17	0.17	ppb	11.18	3600	
121 Sb	115	1	0.02	0.02	ppb	8.11	3600	
137 Ba	115	1	11.48	11.48	ppb	2.64	3600	
205 Tl	165	1	0.14	0.14	ppb	0.50	3600	
208 Pb	165	1	9.28	9.28	ppb	1.48	3600	
232 Th	165	1	12.47	12.47	ppb	2.27	1000	
238 U	165	1	1.73	1.73	ppb	1.13	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	539929	1.30	534602	101.0	30 - 120	
45 Sc	1	2641608	0.52	2551677	103.5	30 - 120	
72 Ge	1	1631061	0.61	1553005	105.0	30 - 120	
115 In	1	4409459	1.84	4260602	103.5	30 - 120	
165 Ho	1	9097401	0.90	8806612	103.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\034SMPL.D\034SMPL.D#
Date Acquired: Nov 8 2011 08:30 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-65-d
Misc Info:
Vial Number: 2302
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.13	0.13	ppb	36.68	3600	
51	V	72	1	15.51	15.51	ppb	1.16	3600	
52	Cr	72	1	6.49	6.49	ppb	1.58	3600	
55	Mn	72	1	25.95	25.95	ppb	1.84	18000	
59	Co	72	1	0.46	0.46	ppb	0.61	3600	
60	Ni	72	1	2.28	2.28	ppb	3.95	3600	
63	Cu	72	1	2.36	2.36	ppb	1.08	3600	
66	Zn	72	1	8.09	8.09	ppb	2.59	3600	
75	As	72	1	3.02	3.02	ppb	2.63	3600	
78	Se	72	1	1.18	1.18	ppb	17.14	3600	
95	Mo	72	1	0.55	0.55	ppb	1.37	3600	
107	Ag	115	1	0.04	0.04	ppb	5.43	3600	
111	Cd	115	1	0.04	0.04	ppb	23.74	3600	
118	Sn	115	1	0.11	0.11	ppb	8.74	3600	
121	Sb	115	1	0.03	0.03	ppb	1.85	3600	
137	Ba	115	1	6.78	6.78	ppb	0.25	3600	
205	Tl	165	1	0.09	0.09	ppb	5.33	3600	
208	Pb	165	1	19.67	19.67	ppb	1.33	3600	
232	Th	165	1	8.95	8.95	ppb	3.14	1000	
238	U	165	1	1.27	1.27	ppb	1.41	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552522	1.98	534602	103.4	30 - 120	
45	Sc	1	2714996	1.21	2551677	106.4	30 - 120	
72	Ge	1	1681515	1.59	1553005	108.3	30 - 120	
115	In	1	4592082	0.90	4260602	107.8	30 - 120	
165	Ho	1	9283625	1.79	8806612	105.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\035SMPL.D\035SMPL.D#
Date Acquired:	Nov 8 2011 08:33 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-66-b
Misc Info:	
Vial Number:	2303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.37	0.37	ppb	18.79	3600	
51	V	72	1	24.79	24.79	ppb	2.20	3600	
52	Cr	72	1	12.13	12.13	ppb	1.69	3600	
55	Mn	72	1	33.08	33.08	ppb	1.51	18000	
59	Co	72	1	0.87	0.87	ppb	0.45	3600	
60	Ni	72	1	4.42	4.42	ppb	2.23	3600	
63	Cu	72	1	2.24	2.24	ppb	2.12	3600	
66	Zn	72	1	11.74	11.74	ppb	2.14	3600	
75	As	72	1	4.88	4.88	ppb	2.17	3600	
78	Se	72	1	1.39	1.39	ppb	19.99	3600	
95	Mo	72	1	0.78	0.78	ppb	4.93	3600	
107	Ag	115	1	0.03	0.03	ppb	6.45	3600	
111	Cd	115	1	0.04	0.04	ppb	16.54	3600	
118	Sn	115	1	0.18	0.18	ppb	3.54	3600	
121	Sb	115	1	0.02	0.02	ppb	5.18	3600	
137	Ba	115	1	10.04	10.04	ppb	2.44	3600	
205	Tl	165	1	0.12	0.12	ppb	4.88	3600	
208	Pb	165	1	15.92	15.92	ppb	1.20	3600	
232	Th	165	1	9.50	9.50	ppb	0.76	1000	
238	U	165	1	1.39	1.39	ppb	0.37	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541580	0.92	534602	101.3	30 - 120	
45	Sc	1	2714009	2.41	2551677	106.4	30 - 120	
72	Ge	1	1663985	2.05	1553005	107.1	30 - 120	
115	In	1	4509403	0.37	4260602	105.8	30 - 120	
165	Ho	1	9256710	0.74	8806612	105.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\036SMPL.D\036SMPL.D#
Date Acquired: Nov 8 2011 08:36 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-67-d
Misc Info:
Vial Number: 2304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.34	0.34	ppb	36.82	3600	
51	V	72	1	25.45	25.45	ppb	1.96	3600	
52	Cr	72	1	12.87	12.87	ppb	1.73	3600	
55	Mn	72	1	56.60	56.60	ppb	1.39	18000	
59	Co	72	1	0.94	0.94	ppb	2.46	3600	
60	Ni	72	1	6.05	6.05	ppb	1.33	3600	
63	Cu	72	1	2.05	2.05	ppb	2.61	3600	
66	Zn	72	1	15.24	15.24	ppb	1.10	3600	
75	As	72	1	4.81	4.81	ppb	0.84	3600	
78	Se	72	1	1.52	1.52	ppb	29.50	3600	
95	Mo	72	1	0.75	0.75	ppb	6.10	3600	
107	Ag	115	1	0.03	0.03	ppb	10.83	3600	
111	Cd	115	1	0.06	0.06	ppb	33.54	3600	
118	Sn	115	1	0.17	0.17	ppb	6.58	3600	
121	Sb	115	1	0.02	0.02	ppb	14.18	3600	
137	Ba	115	1	9.57	9.57	ppb	0.82	3600	
205	Tl	165	1	0.12	0.12	ppb	1.55	3600	
208	Pb	165	1	14.37	14.37	ppb	1.29	3600	
232	Th	165	1	8.87	8.87	ppb	0.26	1000	
238	U	165	1	1.37	1.37	ppb	0.76	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	543840	1.07	534602	101.7	30 - 120	
45	Sc	1	2725720	1.53	2551677	106.8	30 - 120	
72	Ge	1	1658099	0.71	1553005	106.8	30 - 120	
115	In	1	4515277	1.50	4260602	106.0	30 - 120	
165	Ho	1	9194729	1.33	8806612	104.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\037_CCV.D\037_CCV.D#
Date Acquired: Nov 8 2011 08:39 pm
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.91	ppb	0.65	50	101.8	90 - 110	
51	V	72	1	49.61	ppb	1.09	50	99.2	90 - 110	
52	Cr	72	1	49.96	ppb	0.13	50	99.9	90 - 110	
55	Mn	72	1	50.65	ppb	2.21	50	101.3	90 - 110	
59	Co	72	1	50.51	ppb	1.86	50	101.0	90 - 110	
60	Ni	72	1	49.77	ppb	0.14	50	99.5	90 - 110	
63	Cu	72	1	49.92	ppb	0.35	50	99.8	90 - 110	
66	Zn	72	1	49.43	ppb	0.25	50	98.9	90 - 110	
75	As	72	1	50.02	ppb	1.12	50	100.0	90 - 110	
78	Se	72	1	52.40	ppb	0.57	50	104.8	90 - 110	
95	Mo	72	1	50.07	ppb	0.98	50	100.1	90 - 110	
107	Ag	115	1	51.26	ppb	0.99	50	102.5	90 - 110	
111	Cd	115	1	49.74	ppb	0.73	50	99.5	90 - 110	
118	Sn	115	1	47.99	ppb	0.51	50	96.0	90 - 110	
121	Sb	115	1	49.52	ppb	0.85	50	99.0	90 - 110	
137	Ba	115	1	51.24	ppb	0.63	50	102.5	90 - 110	
205	Tl	165	1	50.90	ppb	2.00	50	101.8	90 - 110	
208	Pb	165	1	49.54	ppb	0.66	50	99.1	90 - 110	
232	Th	165	1	49.60	ppb	0.98	50	99.2	90 - 110	
238	U	165	1	49.39	ppb	0.68	50	98.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540664	0.91	534602	101.1	30 - 120	
45	Sc	1	2682692	2.03	2551677	105.1	30 - 120	
72	Ge	1	1668749	0.95	1553005	107.5	30 - 120	
115	In	1	4531029	0.60	4260602	106.3	30 - 120	
165	Ho	1	9200433	0.69	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\038_CCB.D\038_CCB.D#
Date Acquired: Nov 8 2011 08:42 pm
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	115.86	1.00	
51	V	72	1	0.022	ppb	57.04	1.00	
52	Cr	72	1	-0.009	ppb	135.02	1.00	
55	Mn	72	1	0.003	ppb	10.94	1.00	
59	Co	72	1	0.004	ppb	17.10	1.00	
60	Ni	72	1	-0.012	ppb	119.87	1.00	
63	Cu	72	1	-0.004	ppb	226.94	1.00	
66	Zn	72	1	-0.014	ppb	24.90	1.00	
75	As	72	1	0.011	ppb	13.48	1.00	
78	Se	72	1	0.140	ppb	90.68	1.00	
95	Mo	72	1	0.009	ppb	58.91	1.00	
107	Ag	115	1	0.007	ppb	49.31	1.00	
111	Cd	115	1	0.004	ppb	203.33	1.00	
118	Sn	115	1	-0.004	ppb	165.17	1.00	
121	Sb	115	1	0.018	ppb	23.30	1.00	
137	Ba	115	1	0.007	ppb	43.60	1.00	
205	Tl	165	1	0.019	ppb	7.97	1.00	
208	Pb	165	1	0.009	ppb	5.78	1.00	
232	Th	165	1	0.038	ppb	0.71	1.00	
238	U	165	1	0.010	ppb	6.43	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	545004	0.13	534602	101.9	30 - 120	
45	Sc	1	2702888	1.49	2551677	105.9	30 - 120	
72	Ge	1	1673752	1.07	1553005	107.8	30 - 120	
115	In	1	4542706	1.58	4260602	106.6	30 - 120	
165	Ho	1	9252038	1.41	8806612	105.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\039WASH.D\039WASH.D#
Date Acquired: Nov 8 2011 08:45 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.128	ppb	19.90	1.30	
51	V	72	1	4.950	ppb	0.10	6.50	
52	Cr	72	1	2.161	ppb	3.38	2.60	
55	Mn	72	1	1.216	ppb	4.22	1.30	
59	Co	72	1	1.084	ppb	2.12	1.30	
60	Ni	72	1	2.265	ppb	1.95	2.60	
63	Cu	72	1	2.181	ppb	0.75	2.60	
66	Zn	72	1	10.520	ppb	1.52	13.00	
75	As	72	1	5.266	ppb	0.60	6.50	
78	Se	72	1	5.996	ppb	9.71	6.50	
95	Mo	72	1	2.205	ppb	0.80	2.60	
107	Ag	115	1	5.139	ppb	2.33	6.50	
111	Cd	115	1	1.085	ppb	1.96	1.30	
118	Sn	115	1	9.943	ppb	2.03	13.00	
121	Sb	115	1	2.111	ppb	1.49	2.60	
137	Ba	115	1	1.167	ppb	2.78	1.30	
205	Tl	165	1	1.106	ppb	0.47	1.30	
208	Pb	165	1	1.097	ppb	1.78	1.30	
232	Th	165	1	2.087	ppb	2.04	2.60	
238	U	165	1	1.068	ppb	1.43	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	545800	0.83	534602	102.1	30 - 120	
45	Sc	1	2716616	1.93	2551677	106.5	30 - 120	
72	Ge	1	1674310	0.73	1553005	107.8	30 - 120	
115	In	1	4552276	1.49	4260602	106.8	30 - 120	
165	Ho	1	9203100	0.95	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\040SMPL.D\040SMPL.D#
Date Acquired: Nov 8 2011 08:48 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-68-d
Misc Info:
Vial Number: 2305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.12	0.12	ppb	22.84	3600	
51	V	72	1	13.36	13.36	ppb	1.46	3600	
52	Cr	72	1	5.31	5.31	ppb	1.22	3600	
55	Mn	72	1	26.62	26.62	ppb	1.11	18000	
59	Co	72	1	0.40	0.40	ppb	5.03	3600	
60	Ni	72	1	2.06	2.06	ppb	0.68	3600	
63	Cu	72	1	2.24	2.24	ppb	1.20	3600	
66	Zn	72	1	9.16	9.16	ppb	0.61	3600	
75	As	72	1	2.81	2.81	ppb	0.35	3600	
78	Se	72	1	1.66	1.66	ppb	10.77	3600	
95	Mo	72	1	0.46	0.46	ppb	0.72	3600	
107	Ag	115	1	0.04	0.04	ppb	11.28	3600	
111	Cd	115	1	0.03	0.03	ppb	36.59	3600	
118	Sn	115	1	0.11	0.11	ppb	5.76	3600	
121	Sb	115	1	0.03	0.03	ppb	2.75	3600	
137	Ba	115	1	5.98	5.98	ppb	0.80	3600	
205	Tl	165	1	0.10	0.10	ppb	0.68	3600	
208	Pb	165	1	13.57	13.57	ppb	0.91	3600	
232	Th	165	1	11.51	11.51	ppb	1.90	1000	
238	U	165	1	1.56	1.56	ppb	1.67	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	553912	0.56	534602	103.6	30 - 120	
45	Sc	1	2786191	0.52	2551677	109.2	30 - 120	
72	Ge	1	1695225	0.16	1553005	109.2	30 - 120	
115	In	1	4590377	1.25	4260602	107.7	30 - 120	
165	Ho	1	9312750	0.51	8806612	105.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\041SMPL.D\041SMPL.D#
Date Acquired: Nov 8 2011 08:51 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-69-d
Misc Info:
Vial Number: 2306
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.21	0.21	ppb	34.05	3600	
51	V	72	1	24.31	24.31	ppb	1.61	3600	
52	Cr	72	1	11.52	11.52	ppb	2.07	3600	
55	Mn	72	1	36.67	36.67	ppb	1.80	18000	
59	Co	72	1	0.91	0.91	ppb	1.35	3600	
60	Ni	72	1	4.31	4.31	ppb	0.82	3600	
63	Cu	72	1	1.81	1.81	ppb	2.17	3600	
66	Zn	72	1	12.36	12.36	ppb	0.45	3600	
75	As	72	1	4.63	4.63	ppb	0.54	3600	
78	Se	72	1	1.35	1.35	ppb	32.38	3600	
95	Mo	72	1	0.69	0.69	ppb	6.21	3600	
107	Ag	115	1	0.04	0.04	ppb	6.55	3600	
111	Cd	115	1	0.04	0.04	ppb	38.40	3600	
118	Sn	115	1	0.21	0.21	ppb	8.08	3600	
121	Sb	115	1	0.02	0.02	ppb	12.69	3600	
137	Ba	115	1	8.37	8.37	ppb	1.30	3600	
205	Tl	165	1	0.14	0.14	ppb	1.80	3600	
208	Pb	165	1	13.10	13.10	ppb	1.38	3600	
232	Th	165	1	8.21	8.21	ppb	1.30	1000	
238	U	165	1	1.22	1.22	ppb	0.65	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	554659	0.46	534602	103.8	30 - 120	
45	Sc	1	2729769	0.97	2551677	107.0	30 - 120	
72	Ge	1	1689450	0.52	1553005	108.8	30 - 120	
115	In	1	4553268	0.86	4260602	106.9	30 - 120	
165	Ho	1	9376804	1.60	8806612	106.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\042SMPL.D\042SMPL.D#
Date Acquired:	Nov 8 2011 08:53 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-70-b
Misc Info:	
Vial Number:	2307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.19	0.19	ppb	4.12	3600	
51	V	72	1	16.33	16.33	ppb	1.34	3600	
52	Cr	72	1	7.33	7.33	ppb	1.35	3600	
55	Mn	72	1	37.03	37.03	ppb	1.36	18000	
59	Co	72	1	0.58	0.58	ppb	1.76	3600	
60	Ni	72	1	2.54	2.54	ppb	3.81	3600	
63	Cu	72	1	1.90	1.90	ppb	3.36	3600	
66	Zn	72	1	7.07	7.07	ppb	0.47	3600	
75	As	72	1	3.09	3.09	ppb	2.33	3600	
78	Se	72	1	1.33	1.33	ppb	16.35	3600	
95	Mo	72	1	0.92	0.92	ppb	3.78	3600	
107	Ag	115	1	0.02	0.02	ppb	8.77	3600	
111	Cd	115	1	0.02	0.02	ppb	48.78	3600	
118	Sn	115	1	0.09	0.09	ppb	29.65	3600	
121	Sb	115	1	0.03	0.03	ppb	6.22	3600	
137	Ba	115	1	4.93	4.93	ppb	1.80	3600	
205	Tl	165	1	0.09	0.09	ppb	0.17	3600	
208	Pb	165	1	21.65	21.65	ppb	1.68	3600	
232	Th	165	1	10.50	10.50	ppb	1.20	1000	
238	U	165	1	1.72	1.72	ppb	0.65	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	546263	0.55	534602	102.2	30 - 120	
45	Sc	1	2739426	1.02	2551677	107.4	30 - 120	
72	Ge	1	1687937	0.77	1553005	108.7	30 - 120	
115	In	1	4544249	0.62	4260602	106.7	30 - 120	
165	Ho	1	9332410	1.53	8806612	106.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\043SMPL.D\043SMPL.D#
Date Acquired: Nov 8 2011 08:56 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-71-b
Misc Info:
Vial Number: 2308
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.41	0.41	ppb	32.24	3600	
51	V	72	1	27.08	27.08	ppb	2.04	3600	
52	Cr	72	1	16.62	16.62	ppb	1.78	3600	
55	Mn	72	1	64.28	64.28	ppb	0.63	18000	
59	Co	72	1	1.97	1.97	ppb	1.15	3600	
60	Ni	72	1	7.85	7.85	ppb	1.49	3600	
63	Cu	72	1	3.00	3.00	ppb	1.29	3600	
66	Zn	72	1	15.47	15.47	ppb	1.13	3600	
75	As	72	1	5.48	5.48	ppb	1.29	3600	
78	Se	72	1	1.43	1.43	ppb	18.68	3600	
95	Mo	72	1	1.34	1.34	ppb	1.64	3600	
107	Ag	115	1	0.02	0.02	ppb	5.15	3600	
111	Cd	115	1	0.05	0.05	ppb	39.99	3600	
118	Sn	115	1	0.19	0.19	ppb	4.28	3600	
121	Sb	115	1	0.02	0.02	ppb	8.87	3600	
137	Ba	115	1	8.74	8.74	ppb	0.61	3600	
205	Tl	165	1	0.12	0.12	ppb	1.84	3600	
208	Pb	165	1	14.86	14.86	ppb	1.30	3600	
232	Th	165	1	13.22	13.22	ppb	1.93	1000	
238	U	165	1	1.86	1.86	ppb	0.73	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540739	0.48	534602	101.1	30 - 120	
45	Sc	1	2745142	1.69	2551677	107.6	30 - 120	
72	Ge	1	1672350	1.15	1553005	107.7	30 - 120	
115	In	1	4538153	0.78	4260602	106.5	30 - 120	
165	Ho	1	9216785	1.15	8806612	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\044SMPL.D\044SMPL.D#
Date Acquired:	Nov 8 2011 08:59 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-72-d
Misc Info:	
Vial Number:	2309
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.19	0.19	ppb	27.11	3600	
51	V	72	1	21.27	21.27	ppb	1.35	3600	
52	Cr	72	1	8.99	8.99	ppb	1.68	3600	
55	Mn	72	1	28.32	28.32	ppb	1.21	18000	
59	Co	72	1	0.57	0.57	ppb	2.86	3600	
60	Ni	72	1	2.43	2.43	ppb	1.35	3600	
63	Cu	72	1	1.84	1.84	ppb	0.84	3600	
66	Zn	72	1	8.31	8.31	ppb	1.70	3600	
75	As	72	1	3.84	3.84	ppb	2.70	3600	
78	Se	72	1	1.17	1.17	ppb	26.63	3600	
95	Mo	72	1	1.13	1.13	ppb	3.03	3600	
107	Ag	115	1	0.03	0.03	ppb	5.10	3600	
111	Cd	115	1	0.02	0.02	ppb	39.92	3600	
118	Sn	115	1	0.18	0.18	ppb	5.31	3600	
121	Sb	115	1	0.02	0.02	ppb	6.53	3600	
137	Ba	115	1	4.86	4.86	ppb	0.37	3600	
205	Tl	165	1	0.11	0.11	ppb	2.09	3600	
208	Pb	165	1	28.09	28.09	ppb	0.78	3600	
232	Th	165	1	10.23	10.23	ppb	0.84	1000	
238	U	165	1	1.47	1.47	ppb	0.29	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	537253	1.16	534602	100.5	30 - 120	
45	Sc	1	2698291	2.39	2551677	105.7	30 - 120	
72	Ge	1	1652411	0.99	1553005	106.4	30 - 120	
115	In	1	4551311	0.51	4260602	106.8	30 - 120	
165	Ho	1	9130434	0.41	8806612	103.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\045SMPL.D\045SMPL.D#
Date Acquired:	Nov 8 2011 09:02 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-73-b
Misc Info:	
Vial Number:	2310
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.28	0.28	ppb	30.87	3600	
51 V	72	1	25.98	25.98	ppb	1.13	3600	
52 Cr	72	1	14.52	14.52	ppb	0.37	3600	
55 Mn	72	1	39.63	39.63	ppb	0.97	18000	
59 Co	72	1	1.20	1.20	ppb	1.15	3600	
60 Ni	72	1	5.40	5.40	ppb	1.52	3600	
63 Cu	72	1	3.03	3.03	ppb	1.25	3600	
66 Zn	72	1	13.02	13.02	ppb	0.38	3600	
75 As	72	1	4.36	4.36	ppb	0.31	3600	
78 Se	72	1	1.33	1.33	ppb	7.60	3600	
95 Mo	72	1	0.98	0.98	ppb	6.26	3600	
107 Ag	115	1	0.03	0.03	ppb	10.10	3600	
111 Cd	115	1	0.05	0.05	ppb	33.13	3600	
118 Sn	115	1	0.19	0.19	ppb	2.67	3600	
121 Sb	115	1	0.01	0.01	ppb	22.80	3600	
137 Ba	115	1	7.22	7.22	ppb	1.25	3600	
205 Tl	165	1	0.13	0.13	ppb	2.32	3600	
208 Pb	165	1	21.29	21.29	ppb	0.41	3600	
232 Th	165	1	10.52	10.52	ppb	0.70	1000	
238 U	165	1	1.57	1.57	ppb	0.43	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	539841	0.84	534602	101.0	30 - 120	
45 Sc	1	2698470	1.09	2551677	105.8	30 - 120	
72 Ge	1	1658631	0.69	1553005	106.8	30 - 120	
115 In	1	4529103	1.49	4260602	106.3	30 - 120	
165 Ho	1	9199313	0.20	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\046SMPL.D\046SMPL.D#
Date Acquired: Nov 8 2011 09:05 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-74-b
Misc Info:
Vial Number: 2311
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.18	0.18	ppb	27.04	3600	
51 V	72	1	18.08	18.08	ppb	0.55	3600	
52 Cr	72	1	8.40	8.40	ppb	0.47	3600	
55 Mn	72	1	34.69	34.69	ppb	0.75	18000	
59 Co	72	1	0.64	0.64	ppb	1.95	3600	
60 Ni	72	1	2.72	2.72	ppb	2.81	3600	
63 Cu	72	1	1.39	1.39	ppb	2.53	3600	
66 Zn	72	1	8.92	8.92	ppb	1.33	3600	
75 As	72	1	3.30	3.30	ppb	1.77	3600	
78 Se	72	1	1.13	1.13	ppb	31.57	3600	
95 Mo	72	1	0.61	0.61	ppb	2.49	3600	
107 Ag	115	1	0.03	0.03	ppb	10.41	3600	
111 Cd	115	1	0.03	0.03	ppb	18.75	3600	
118 Sn	115	1	0.16	0.16	ppb	1.79	3600	
121 Sb	115	1	0.02	0.02	ppb	6.70	3600	
137 Ba	115	1	5.47	5.47	ppb	1.07	3600	
205 Tl	165	1	0.10	0.10	ppb	2.83	3600	
208 Pb	165	1	19.31	19.31	ppb	0.98	3600	
232 Th	165	1	9.41	9.41	ppb	0.77	1000	
238 U	165	1	1.31	1.31	ppb	0.48	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	548000	1.20	534602	102.5	30 - 120	
45 Sc	1	2720835	1.84	2551677	106.6	30 - 120	
72 Ge	1	1686707	0.90	1553005	108.6	30 - 120	
115 In	1	4529218	0.15	4260602	106.3	30 - 120	
165 Ho	1	9200643	0.73	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\047SMPL.D\047SMPL.D#
Date Acquired: Nov 8 2011 09:08 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-75-d
Misc Info:
Vial Number: 2312
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.41	0.41	ppb	14.59	3600	
51	V	72	1	19.38	19.38	ppb	0.60	3600	
52	Cr	72	1	12.68	12.68	ppb	0.79	3600	
55	Mn	72	1	41.93	41.93	ppb	2.27	18000	
59	Co	72	1	1.35	1.35	ppb	1.66	3600	
60	Ni	72	1	5.54	5.54	ppb	0.22	3600	
63	Cu	72	1	2.15	2.15	ppb	0.96	3600	
66	Zn	72	1	11.98	11.98	ppb	0.88	3600	
75	As	72	1	3.98	3.98	ppb	1.67	3600	
78	Se	72	1	1.26	1.26	ppb	18.66	3600	
95	Mo	72	1	0.55	0.55	ppb	7.84	3600	
107	Ag	115	1	0.02	0.02	ppb	8.54	3600	
111	Cd	115	1	0.05	0.05	ppb	21.62	3600	
118	Sn	115	1	0.13	0.13	ppb	4.13	3600	
121	Sb	115	1	0.01	0.01	ppb	21.16	3600	
137	Ba	115	1	6.91	6.91	ppb	0.36	3600	
205	Tl	165	1	0.11	0.11	ppb	2.72	3600	
208	Pb	165	1	8.69	8.69	ppb	0.28	3600	
232	Th	165	1	9.43	9.43	ppb	0.46	1000	
238	U	165	1	1.59	1.59	ppb	0.89	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	537887	0.35	534602	100.6	30 - 120	
45	Sc	1	2769404	0.89	2551677	108.5	30 - 120	
72	Ge	1	1683640	0.76	1553005	108.4	30 - 120	
115	In	1	4560845	0.60	4260602	107.0	30 - 120	
165	Ho	1	9254690	0.39	8806612	105.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\048_CCV.D\048_CCV.D#
Date Acquired: Nov 8 2011 09:11 pm
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.84	ppb	2.45	50	103.7	90 - 110	
51	V	72	1	51.40	ppb	1.56	50	102.8	90 - 110	
52	Cr	72	1	50.58	ppb	0.92	50	101.2	90 - 110	
55	Mn	72	1	51.19	ppb	2.85	50	102.4	90 - 110	
59	Co	72	1	50.88	ppb	2.53	50	101.8	90 - 110	
60	Ni	72	1	50.36	ppb	1.17	50	100.7	90 - 110	
63	Cu	72	1	50.39	ppb	2.77	50	100.8	90 - 110	
66	Zn	72	1	49.83	ppb	1.50	50	99.7	90 - 110	
75	As	72	1	50.54	ppb	1.51	50	101.1	90 - 110	
78	Se	72	1	52.62	ppb	3.09	50	105.2	90 - 110	
95	Mo	72	1	50.47	ppb	1.12	50	100.9	90 - 110	
107	Ag	115	1	50.07	ppb	1.96	50	100.1	90 - 110	
111	Cd	115	1	49.31	ppb	2.37	50	98.6	90 - 110	
118	Sn	115	1	48.22	ppb	2.39	50	96.4	90 - 110	
121	Sb	115	1	49.04	ppb	1.86	50	98.1	90 - 110	
137	Ba	115	1	50.95	ppb	2.31	50	101.9	90 - 110	
205	Tl	165	1	51.19	ppb	0.92	50	102.4	90 - 110	
208	Pb	165	1	49.35	ppb	0.32	50	98.7	90 - 110	
232	Th	165	1	49.98	ppb	1.16	50	100.0	90 - 110	
238	U	165	1	49.17	ppb	0.93	50	98.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	533410	1.32	534602	99.8	30 - 120	
45	Sc	1	2718448	2.02	2551677	106.5	30 - 120	
72	Ge	1	1664700	1.71	1553005	107.2	30 - 120	
115	In	1	4592939	2.29	4260602	107.8	30 - 120	
165	Ho	1	9189680	0.53	8806612	104.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\049_CCB.D\049_CCB.D#
Date Acquired:	Nov 8 2011 09:14 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	152.34	1.00	
51	V	72	1	0.021	ppb	25.73	1.00	
52	Cr	72	1	0.003	ppb	329.70	1.00	
55	Mn	72	1	0.009	ppb	72.00	1.00	
59	Co	72	1	0.006	ppb	14.43	1.00	
60	Ni	72	1	-0.015	ppb	45.01	1.00	
63	Cu	72	1	-0.005	ppb	106.83	1.00	
66	Zn	72	1	-0.017	ppb	50.20	1.00	
75	As	72	1	0.012	ppb	119.53	1.00	
78	Se	72	1	0.236	ppb	110.57	1.00	
95	Mo	72	1	0.013	ppb	32.01	1.00	
107	Ag	115	1	0.008	ppb	18.15	1.00	
111	Cd	115	1	0.002	ppb	261.29	1.00	
118	Sn	115	1	-0.012	ppb	114.03	1.00	
121	Sb	115	1	0.013	ppb	19.03	1.00	
137	Ba	115	1	0.004	ppb	63.65	1.00	
205	Tl	165	1	0.009	ppb	16.05	1.00	
208	Pb	165	1	0.006	ppb	12.36	1.00	
232	Th	165	1	0.031	ppb	7.20	1.00	
238	U	165	1	0.008	ppb	18.76	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541763	0.90	534602	101.3	30 - 120	
45	Sc	1	2793727	2.42	2551677	109.5	30 - 120	
72	Ge	1	1676006	1.61	1553005	107.9	30 - 120	
115	In	1	4663291	1.35	4260602	109.5	30 - 120	
165	Ho	1	9184510	0.90	8806612	104.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\050WASH.D\050WASH.D#
Date Acquired: Nov 8 2011 09:17 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.101	ppb	24.13	1.30	
51	V	72	1	5.144	ppb	3.97	6.50	
52	Cr	72	1	2.211	ppb	4.04	2.60	
55	Mn	72	1	1.228	ppb	2.82	1.30	
59	Co	72	1	1.111	ppb	0.65	1.30	
60	Ni	72	1	2.293	ppb	1.91	2.60	
63	Cu	72	1	2.230	ppb	2.91	2.60	
66	Zn	72	1	10.590	ppb	1.34	13.00	
75	As	72	1	5.299	ppb	2.98	6.50	
78	Se	72	1	5.768	ppb	7.26	6.50	
95	Mo	72	1	2.210	ppb	1.67	2.60	
107	Ag	115	1	5.173	ppb	1.26	6.50	
111	Cd	115	1	1.136	ppb	1.39	1.30	
118	Sn	115	1	9.920	ppb	1.05	13.00	
121	Sb	115	1	2.126	ppb	1.00	2.60	
137	Ba	115	1	1.139	ppb	0.67	1.30	
205	Tl	165	1	1.119	ppb	0.26	1.30	
208	Pb	165	1	1.091	ppb	0.90	1.30	
232	Th	165	1	2.098	ppb	0.64	2.60	
238	U	165	1	1.069	ppb	0.23	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540475	1.40	534602	101.1	30 - 120	
45	Sc	1	2712641	1.80	2551677	106.3	30 - 120	
72	Ge	1	1666801	2.00	1553005	107.3	30 - 120	
115	In	1	4534304	1.01	4260602	106.4	30 - 120	
165	Ho	1	9155785	0.73	8806612	104.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\051_BLK.D\051_BLK.D#
Date Acquired:	Nov 8 2011 09:20 pm
Operator:	LRD
Sample Name:	mb 280-95210/1-a
Misc Info:	BLANK 95210 Soil DoD4/6020A
Vial Number:	3306
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.008 ppb	0.57	2.00	
51	V	72	1	0.011 ppb	61.69	2.00	
52	Cr	72	1	0.095 ppb	4.65	2.00	
55	Mn	72	1	0.099 ppb	13.77	2.00	
59	Co	72	1	0.004 ppb	59.21	2.00	
60	Ni	72	1	0.059 ppb	12.06	2.00	
63	Cu	72	1	0.056 ppb	14.08	2.00	
66	Zn	72	1	0.132 ppb	8.50	2.00	
75	As	72	1	0.008 ppb	60.40	2.00	
78	Se	72	1	0.325 ppb	23.15	2.00	
95	Mo	72	1	0.007 ppb	15.31	2.00	
107	Ag	115	1	0.005 ppb	24.06	2.00	
111	Cd	115	1	0.004 ppb	23.95	2.00	
118	Sn	115	1	0.055 ppb	11.08	2.00	
121	Sb	115	1	0.006 ppb	26.89	2.00	
137	Ba	115	1	0.048 ppb	6.70	2.00	
205	Tl	165	1	0.005 ppb	2.21	2.00	
208	Pb	165	1	0.014 ppb	7.95	2.00	
232	Th	165	1	0.019 ppb	14.35	2.00	
238	U	165	1	0.004 ppb	2.07	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551609	0.38	534602	103.2	30 - 120	
45	Sc	1	2797734	1.46	2551677	109.6	30 - 120	
72	Ge	1	1696242	0.39	1553005	109.2	30 - 120	
115	In	1	4656460	1.24	4260602	109.3	30 - 120	
165	Ho	1	9369119	1.26	8806612	106.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\052_LCS.D\052_LCS.D#
Date Acquired: Nov 8 2011 09:23 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-95210/2-a
Misc Info: LCS
Vial Number: 3307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.78	1.47	40	102.0	80 - 120	
51	V	72	1	39.91	2.46	40	99.8	80 - 120	
52	Cr	72	1	40.56	1.81	40	101.4	80 - 120	
55	Mn	72	1	40.01	1.80	40	100.0	80 - 120	
59	Co	72	1	39.77	1.22	40	99.4	80 - 120	
60	Ni	72	1	39.48	0.46	40	98.7	80 - 120	
63	Cu	72	1	39.07	0.60	40	97.7	80 - 120	
66	Zn	72	1	38.15	0.74	40	95.4	80 - 120	
75	As	72	1	39.63	0.99	40	99.1	80 - 120	
78	Se	72	1	40.05	1.84	40	100.1	80 - 120	
95	Mo	72	1	39.38	0.87	40	98.5	80 - 120	
107	Ag	115	1	39.02	0.53	40	97.6	80 - 120	
111	Cd	115	1	38.80	0.23	40	97.0	80 - 120	
118	Sn	115	1	37.78	0.58	40	94.5	80 - 120	
121	Sb	115	1	37.83	0.41	40	94.6	80 - 120	
137	Ba	115	1	39.75	0.53	40	99.4	80 - 120	
205	Tl	165	1	40.60	0.71	40	101.5	80 - 120	
208	Pb	165	1	39.67	1.19	40	99.2	80 - 120	
232	Th	165	1	39.87	0.80	40	99.7	80 - 120	
238	U	165	1	39.79	1.10	40	99.5	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	547125	0.71	534602	102.3	30 - 120	
45	Sc	1	2771230	0.46	2551677	108.6	30 - 120	
72	Ge	1	1674436	0.44	1553005	107.8	30 - 120	
115	In	1	4653895	0.21	4260602	109.2	30 - 120	
165	Ho	1	9198222	0.83	8806612	104.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Labratory Control Spike Duplicate Sample (LCSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\053LCSD.D\053LCSD.D#
Date Acquired:	Nov 8 2011 09:26 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcsd 280-95210/3-a
Misc Info:	LCSD
Vial Number:	3308
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\052_LCS.D\052_LCS.D#

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9	Be	6	1	40.14 ppb	1.24	40.78	1.58	2000	
51	V	72	1	39.76 ppb	1.69	39.91	0.38	2000	
52	Cr	72	1	40.34 ppb	0.78	40.56	0.54	2000	
55	Mn	72	1	39.94 ppb	1.09	40.01	0.18	2000	
59	Co	72	1	40.33 ppb	1.78	39.77	1.40	2000	
60	Ni	72	1	39.44 ppb	1.54	39.48	0.10	2000	
63	Cu	72	1	38.81 ppb	1.28	39.07	0.67	2000	
66	Zn	72	1	38.43 ppb	1.37	38.15	0.73	2000	
75	As	72	1	39.62 ppb	0.62	39.63	0.03	2000	
78	Se	72	1	42.05 ppb	1.43	40.05	4.87	2000	
95	Mo	72	1	39.11 ppb	1.28	39.38	0.69	2000	
107	Ag	115	1	40.36 ppb	1.87	39.02	3.38	2000	
111	Cd	115	1	39.19 ppb	0.61	38.80	1.00	2000	
118	Sn	115	1	37.66 ppb	1.01	37.78	0.32	2000	
121	Sb	115	1	37.95 ppb	0.30	37.83	0.32	2000	
137	Ba	115	1	40.64 ppb	0.56	39.75	2.21	2000	
205	Tl	165	1	40.66 ppb	0.51	40.60	0.15	2000	
208	Pb	165	1	39.05 ppb	0.34	39.67	1.58	2000	
232	Th	165	1	39.10 ppb	1.16	39.87	1.95	2000	
238	U	165	1	39.07 ppb	0.33	39.79	1.83	2000	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	555334	0.58	534602	103.9	30 - 120	
45	Sc	1	2746480	1.29	2551677	107.6	30 - 120	
72	Ge	1	1692451	0.96	1553005	109.0	30 - 120	
115	In	1	4638954	0.41	4260602	108.9	30 - 120	
165	Ho	1	9354473	0.41	8806612	106.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\054AREF.D\054AREF.D#
Date Acquired: Nov 8 2011 09:29 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-53-h
Misc Info:
Vial Number: 3309
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.47	0.47	ppb	5.19	3600	
51	V	72	1	30.32	30.32	ppb	0.37	3600	
52	Cr	72	1	15.81	15.81	ppb	0.39	3600	
55	Mn	72	1	292.60	292.60	ppb	0.53	18000	
59	Co	72	1	1.73	1.73	ppb	1.77	3600	
60	Ni	72	1	7.04	7.04	ppb	1.90	3600	
63	Cu	72	1	8.78	8.78	ppb	1.17	3600	
66	Zn	72	1	41.36	41.36	ppb	0.35	3600	
75	As	72	1	6.25	6.25	ppb	1.69	3600	
78	Se	72	1	1.88	1.88	ppb	8.37	3600	
95	Mo	72	1	1.39	1.39	ppb	1.52	3600	
107	Ag	115	1	0.11	0.11	ppb	4.01	3600	
111	Cd	115	1	0.63	0.63	ppb	1.75	3600	
118	Sn	115	1	0.14	0.14	ppb	0.84	3600	
121	Sb	115	1	0.07	0.07	ppb	7.61	3600	
137	Ba	115	1	20.19	20.19	ppb	1.08	3600	
205	Tl	165	1	0.22	0.22	ppb	2.29	3600	
208	Pb	165	1	38.61	38.61	ppb	1.32	3600	
232	Th	165	1	12.02	12.02	ppb	2.02	1000	
238	U	165	1	2.53	2.53	ppb	1.44	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	547023	0.79	534602	102.3	30 - 120	
45	Sc	1	2742038	0.72	2551677	107.5	30 - 120	
72	Ge	1	1695512	0.56	1553005	109.2	30 - 120	
115	In	1	4539400	1.33	4260602	106.5	30 - 120	
165	Ho	1	9237457	0.87	8806612	104.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\055SDIL.D\055SDIL.D#
Date Acquired: Nov 8 2011 09:32 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-53-h SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3310
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\054AREF.D\054AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.11	ppb	13.08	0.09	115.0	90 - 110	
51	V	72	1	5.93	ppb	2.84	6.06	97.8	90 - 110	
52	Cr	72	1	3.14	ppb	1.23	3.16	99.2	90 - 110	
55	Mn	72	1	60.19	ppb	1.85	58.52	102.9	90 - 110	
59	Co	72	1	0.35	ppb	0.96	0.35	102.1	90 - 110	
60	Ni	72	1	1.39	ppb	1.51	1.41	98.9	90 - 110	
63	Cu	72	1	1.73	ppb	1.22	1.76	98.3	90 - 110	
66	Zn	72	1	8.22	ppb	0.59	8.27	99.4	90 - 110	
75	As	72	1	1.21	ppb	3.03	1.25	97.1	90 - 110	
78	Se	72	1	0.36	ppb	37.67	0.38	96.8	90 - 110	
95	Mo	72	1	0.26	ppb	7.27	0.28	93.1	90 - 110	
107	Ag	115	1	0.02	ppb	3.93	0.02	94.3	90 - 110	
111	Cd	115	1	0.12	ppb	10.06	0.13	94.4	90 - 110	
118	Sn	115	1	0.14	ppb	6.62	0.03	478.9	90 - 110	
121	Sb	115	1	0.02	ppb	8.24	0.01	127.8	90 - 110	
137	Ba	115	1	3.80	ppb	0.78	4.04	94.1	90 - 110	
205	Tl	165	1	0.05	ppb	5.42	0.04	103.5	90 - 110	
208	Pb	165	1	7.58	ppb	0.70	7.72	98.1	90 - 110	
232	Th	165	1	2.36	ppb	1.88	2.40	98.0	90 - 110	
238	U	165	1	0.50	ppb	1.25	0.51	98.8	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	544489	0.38	534602	101.8	30 - 120	
45	Sc	1	2771427	0.81	2551677	108.6	30 - 120	
72	Ge	1	1706128	0.35	1553005	109.9	30 - 120	
115	In	1	4663128	1.56	4260602	109.4	30 - 120	
165	Ho	1	9230419	1.29	8806612	104.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\056PDS.D\056PDS.D#
Date Acquired:	Nov 8 2011 09:34 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-53-h PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3311
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	220.10	0.47	ppb	0.92	200	109.8	75 - 125	
51 V	72	1	234.00	30.32	ppb	1.47	200	101.6	75 - 125	
52 Cr	72	1	219.90	15.81	ppb	0.98	200	101.9	75 - 125	
55 Mn	72	1	499.80	292.60	ppb	1.00	200	101.5	75 - 125	
59 Co	72	1	206.70	1.73	ppb	1.36	200	102.5	75 - 125	
60 Ni	72	1	221.30	7.04	ppb	1.77	200	106.9	75 - 125	
63 Cu	72	1	211.50	8.78	ppb	0.39	200	101.3	75 - 125	
66 Zn	72	1	243.00	41.36	ppb	0.52	200	100.7	75 - 125	
75 As	72	1	220.70	6.25	ppb	0.78	200	107.0	75 - 125	
78 Se	72	1	221.20	1.88	ppb	0.96	200	109.6	75 - 125	
95 Mo	72	1	218.40	1.39	ppb	2.64	200	108.4	75 - 125	
107 Ag	115	1	52.61	0.11	ppb	1.40	50	105.0	75 - 125	
111 Cd	115	1	217.70	0.63	ppb	2.79	200	108.5	75 - 125	
118 Sn	115	1	209.60	0.14	ppb	0.37	200	104.7	75 - 125	
121 Sb	115	1	211.40	0.07	ppb	1.81	200	105.7	75 - 125	
137 Ba	115	1	244.50	20.19	ppb	0.86	200	111.0	75 - 125	
205 Tl	165	1	208.00	0.22	ppb	0.11	200	103.9	75 - 125	
208 Pb	165	1	240.90	38.61	ppb	1.29	200	101.0	75 - 125	
232 Th	165	1	12.23	12.02	ppb	0.72	200	5.8	75 - 125	
238 U	165	1	204.50	2.53	ppb	1.29	200	101.0	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	544138	1.41	534602	101.8	30 - 120	
45 Sc	1	2711673	1.09	2551677	106.3	30 - 120	
72 Ge	1	1665998	1.36	1553005	107.3	30 - 120	
115 In	1	4513049	0.87	4260602	105.9	30 - 120	
165 Ho	1	9230485	0.47	8806612	104.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\057_MS.D\057_MS.D#
Date Acquired:	Nov 8 2011 09:37 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-53-i ms
Misc Info:	MATRIX SPIKE
Vial Number:	3312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	40.98	0.47	ppb	1.96	40	101.3	50 - 150	
51 V	72	1	70.39	30.32	ppb	2.10	40	100.1	50 - 150	
52 Cr	72	1	54.34	15.81	ppb	1.31	40	97.4	50 - 150	
55 Mn	72	1	314.50	292.60	ppb	0.74	40	94.6	50 - 150	
59 Co	72	1	40.90	1.73	ppb	1.78	40	98.0	50 - 150	
60 Ni	72	1	45.85	7.04	ppb	1.75	40	97.5	50 - 150	
63 Cu	72	1	46.93	8.78	ppb	1.60	40	96.2	50 - 150	
66 Zn	72	1	78.62	41.36	ppb	0.78	40	96.6	50 - 150	
75 As	72	1	43.66	6.25	ppb	1.65	40	94.4	50 - 150	
78 Se	72	1	40.98	1.88	ppb	2.37	40	97.8	50 - 150	
95 Mo	72	1	36.69	1.39	ppb	1.49	40	88.6	50 - 150	
107 Ag	115	1	38.00	0.11	ppb	1.53	40	94.7	50 - 150	
111 Cd	115	1	38.99	0.63	ppb	2.31	40	96.0	50 - 150	
118 Sn	115	1	2.04	0.14	ppb	2.43	40	5.1	50 - 150	
121 Sb	115	1	5.50	0.07	ppb	0.91	40	13.7	50 - 150	
137 Ba	115	1	58.79	20.19	ppb	1.25	40	97.7	50 - 150	
205 Tl	165	1	39.05	0.22	ppb	0.90	40	97.1	50 - 150	
208 Pb	165	1	74.87	38.61	ppb	1.07	40	95.2	50 - 150	
232 Th	165	1	45.26	12.02	ppb	0.90	40	87.0	50 - 150	
238 U	165	1	40.57	2.53	ppb	1.48	40	95.4	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	541790	0.49	534602	101.3	30 - 120	
45 Sc	1	2737373	1.80	2551677	107.3	30 - 120	
72 Ge	1	1645761	1.29	1553005	106.0	30 - 120	
115 In	1	4520629	1.43	4260602	106.1	30 - 120	
165 Ho	1	9287612	0.51	8806612	105.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\058_MSD.D\058_MSD.D#		
Date Acquired:	Nov 8 2011 09:40 pm	**QC Summary:**	
Acq. Method:	NormISIS.M	**Analytes:**	**Pass**
Operator:	LRD	**ISTD:**	**Pass**
Sample Name:	280-21902-a-53-j msd		
Misc Info:	MATRIX SPIKE DUPLICATE		
Vial Number:	3401		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 07:04 pm		
Sample Type:	MSD		
Dilution Factor:	1.00		

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\057_MS.D\057_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	39.33	ppb	2.71	40.98	4.11	20	
51	V	72	1	68.89	ppb	1.08	70.39	2.15	20	
52	Cr	72	1	53.90	ppb	0.45	54.34	0.81	20	
55	Mn	72	1	313.90	ppb	1.18	314.50	0.19	20	
59	Co	72	1	41.66	ppb	2.13	40.90	1.84	20	
60	Ni	72	1	45.48	ppb	2.10	45.85	0.81	20	
63	Cu	72	1	46.73	ppb	1.88	46.93	0.43	20	
66	Zn	72	1	77.14	ppb	1.28	78.62	1.90	20	
75	As	72	1	43.27	ppb	0.41	43.66	0.90	20	
78	Se	72	1	41.14	ppb	1.96	40.98	0.39	20	
95	Mo	72	1	36.92	ppb	1.54	36.69	0.62	20	
107	Ag	115	1	37.80	ppb	1.79	38.00	0.53	20	
111	Cd	115	1	38.89	ppb	0.97	38.99	0.26	20	
118	Sn	115	1	1.63	ppb	3.82	2.04	22.84	20	
121	Sb	115	1	5.31	ppb	0.33	5.50	3.61	20	
137	Ba	115	1	58.38	ppb	1.61	58.79	0.70	20	
205	Tl	165	1	39.09	ppb	0.72	39.05	0.10	20	
208	Pb	165	1	74.32	ppb	1.23	74.87	0.74	20	
232	Th	165	1	45.53	ppb	0.10	45.26	0.59	20	
238	U	165	1	40.86	ppb	1.29	40.57	0.71	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	544026	1.37	534602	101.8	30 - 120	
45	Sc	1	2724379	0.68	2551677	106.8	30 - 120	
72	Ge	1	1641478	1.68	1553005	105.7	30 - 120	
115	In	1	4531186	1.55	4260602	106.4	30 - 120	
165	Ho	1	9246246	0.46	8806612	105.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\059SMPL.D\059SMPL.D#		
Date Acquired:	Nov 8 2011 09:43 pm		
Acq. Method:	NormISIS.M	QC Summary:	
Operator:	LRD	Analytes:	Pass
Sample Name:	280-21902-a-54-g	ISTD:	Pass
Misc Info:			
Vial Number:	3402		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 07:04 pm		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.38	0.38	ppb	31.17	3600	
51	V	72	1	26.34	26.34	ppb	1.51	3600	
52	Cr	72	1	11.60	11.60	ppb	1.87	3600	
55	Mn	72	1	241.90	241.90	ppb	2.18	18000	
59	Co	72	1	1.52	1.52	ppb	1.98	3600	
60	Ni	72	1	5.31	5.31	ppb	0.39	3600	
63	Cu	72	1	7.39	7.39	ppb	0.28	3600	
66	Zn	72	1	35.53	35.53	ppb	0.59	3600	
75	As	72	1	5.42	5.42	ppb	0.90	3600	
78	Se	72	1	1.62	1.62	ppb	17.59	3600	
95	Mo	72	1	1.22	1.22	ppb	5.61	3600	
107	Ag	115	1	0.09	0.09	ppb	7.05	3600	
111	Cd	115	1	0.16	0.16	ppb	3.08	3600	
118	Sn	115	1	0.09	0.09	ppb	15.22	3600	
121	Sb	115	1	0.06	0.06	ppb	5.62	3600	
137	Ba	115	1	17.55	17.55	ppb	1.89	3600	
205	Tl	165	1	0.18	0.18	ppb	1.64	3600	
208	Pb	165	1	32.40	32.40	ppb	0.69	3600	
232	Th	165	1	10.06	10.06	ppb	0.08	1000	
238	U	165	1	2.18	2.18	ppb	0.35	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	538343	1.20	534602	100.7	30 - 120	
45	Sc	1	2733973	1.76	2551677	107.1	30 - 120	
72	Ge	1	1680114	0.56	1553005	108.2	30 - 120	
115	In	1	4507796	0.46	4260602	105.8	30 - 120	
165	Ho	1	9220765	0.36	8806612	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\060_CCV.D\060_CCV.D#
Date Acquired:	Nov 8 2011 09:46 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.90	ppb	1.89	50	103.8	90 - 110	
51	V	72	1	50.08	ppb	2.77	50	100.2	90 - 110	
52	Cr	72	1	49.42	ppb	1.19	50	98.8	90 - 110	
55	Mn	72	1	49.97	ppb	2.48	50	99.9	90 - 110	
59	Co	72	1	49.73	ppb	2.37	50	99.5	90 - 110	
60	Ni	72	1	49.27	ppb	2.28	50	98.5	90 - 110	
63	Cu	72	1	50.17	ppb	1.59	50	100.3	90 - 110	
66	Zn	72	1	49.46	ppb	1.06	50	98.9	90 - 110	
75	As	72	1	50.34	ppb	2.03	50	100.7	90 - 110	
78	Se	72	1	51.15	ppb	3.72	50	102.3	90 - 110	
95	Mo	72	1	49.47	ppb	0.99	50	98.9	90 - 110	
107	Ag	115	1	51.19	ppb	1.02	50	102.4	90 - 110	
111	Cd	115	1	49.63	ppb	0.81	50	99.3	90 - 110	
118	Sn	115	1	48.10	ppb	0.37	50	96.2	90 - 110	
121	Sb	115	1	49.16	ppb	0.29	50	98.3	90 - 110	
137	Ba	115	1	50.55	ppb	1.63	50	101.1	90 - 110	
205	Tl	165	1	50.83	ppb	0.79	50	101.7	90 - 110	
208	Pb	165	1	49.98	ppb	1.60	50	100.0	90 - 110	
232	Th	165	1	50.23	ppb	2.02	50	100.5	90 - 110	
238	U	165	1	49.51	ppb	1.36	50	99.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	531490	1.61	534602	99.4	30 - 120	
45	Sc	1	2720650	0.41	2551677	106.6	30 - 120	
72	Ge	1	1677146	1.12	1553005	108.0	30 - 120	
115	In	1	4587452	1.77	4260602	107.7	30 - 120	
165	Ho	1	9090439	0.15	8806612	103.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\061_CCB.D\061_CCB.D#
Date Acquired: Nov 8 2011 09:49 pm
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	171.28	1.00	
51	V	72	1	0.019	ppb	17.02	1.00	
52	Cr	72	1	-0.001	ppb	1842.10	1.00	
55	Mn	72	1	0.023	ppb	4.01	1.00	
59	Co	72	1	0.009	ppb	11.36	1.00	
60	Ni	72	1	-0.006	ppb	162.91	1.00	
63	Cu	72	1	-0.004	ppb	79.55	1.00	
66	Zn	72	1	-0.013	ppb	35.69	1.00	
75	As	72	1	0.013	ppb	45.48	1.00	
78	Se	72	1	0.314	ppb	48.34	1.00	
95	Mo	72	1	0.015	ppb	47.27	1.00	
107	Ag	115	1	0.009	ppb	36.52	1.00	
111	Cd	115	1	0.010	ppb	18.33	1.00	
118	Sn	115	1	0.008	ppb	25.10	1.00	
121	Sb	115	1	0.016	ppb	17.13	1.00	
137	Ba	115	1	0.015	ppb	45.74	1.00	
205	Tl	165	1	0.022	ppb	9.53	1.00	
208	Pb	165	1	0.010	ppb	13.49	1.00	
232	Th	165	1	0.044	ppb	6.52	1.00	
238	U	165	1	0.013	ppb	7.73	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	534672	0.88	534602	100.0	30 - 120	
45	Sc	1	2728251	2.66	2551677	106.9	30 - 120	
72	Ge	1	1683557	0.56	1553005	108.4	30 - 120	
115	In	1	4564875	1.27	4260602	107.1	30 - 120	
165	Ho	1	9258427	0.61	8806612	105.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\062WASH.D\062WASH.D#
Date Acquired: Nov 8 2011 09:52 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.005 ppb	12.15	1.30	
51	V	72	1	5.059 ppb	1.99	6.50	
52	Cr	72	1	2.196 ppb	1.46	2.60	
55	Mn	72	1	1.271 ppb	2.50	1.30	
59	Co	72	1	1.110 ppb	1.52	1.30	
60	Ni	72	1	2.275 ppb	2.66	2.60	
63	Cu	72	1	2.182 ppb	1.81	2.60	
66	Zn	72	1	10.410 ppb	1.43	13.00	
75	As	72	1	5.285 ppb	0.46	6.50	
78	Se	72	1	5.606 ppb	9.21	6.50	
95	Mo	72	1	2.112 ppb	1.90	2.60	
107	Ag	115	1	5.002 ppb	1.35	6.50	
111	Cd	115	1	1.073 ppb	3.55	1.30	
118	Sn	115	1	9.811 ppb	0.44	13.00	
121	Sb	115	1	2.067 ppb	1.36	2.60	
137	Ba	115	1	1.089 ppb	1.95	1.30	
205	Tl	165	1	1.114 ppb	1.00	1.30	
208	Pb	165	1	1.095 ppb	0.61	1.30	
232	Th	165	1	2.078 ppb	1.17	2.60	
238	U	165	1	1.057 ppb	1.09	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	529070	1.28	534602	99.0	30 - 120	
45	Sc	1	2725195	0.49	2551677	106.8	30 - 120	
72	Ge	1	1680008	1.59	1553005	108.2	30 - 120	
115	In	1	4652510	1.19	4260602	109.2	30 - 120	
165	Ho	1	9116979	0.24	8806612	103.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\063SMPL.D\063SMPL.D#		
Date Acquired:	Nov 8 2011 09:55 pm		
Acq. Method:	NormISIS.M	**QC Summary:**	
Operator:	LRD	**Analytes:**	**Pass**
Sample Name:	280-21902-a-55-g	**ISTD:**	**Pass**
Misc Info:			
Vial Number:	3403		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 07:04 pm		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.38	0.38	ppb	11.17	3600	
51	V	72	1	27.60	27.60	ppb	0.98	3600	
52	Cr	72	1	11.87	11.87	ppb	0.72	3600	
55	Mn	72	1	249.50	249.50	ppb	0.26	18000	
59	Co	72	1	1.54	1.54	ppb	0.64	3600	
60	Ni	72	1	5.52	5.52	ppb	1.39	3600	
63	Cu	72	1	8.07	8.07	ppb	1.11	3600	
66	Zn	72	1	37.65	37.65	ppb	0.76	3600	
75	As	72	1	5.77	5.77	ppb	1.42	3600	
78	Se	72	1	2.05	2.05	ppb	13.54	3600	
95	Mo	72	1	1.30	1.30	ppb	2.57	3600	
107	Ag	115	1	0.10	0.10	ppb	5.78	3600	
111	Cd	115	1	0.13	0.13	ppb	7.20	3600	
118	Sn	115	1	0.09	0.09	ppb	18.08	3600	
121	Sb	115	1	0.07	0.07	ppb	3.86	3600	
137	Ba	115	1	16.94	16.94	ppb	0.70	3600	
205	Tl	165	1	0.17	0.17	ppb	2.19	3600	
208	Pb	165	1	37.21	37.21	ppb	2.11	3600	
232	Th	165	1	11.23	11.23	ppb	2.24	1000	
238	U	165	1	2.35	2.35	ppb	2.86	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	535606	0.98	534602	100.2	30 - 120	
45	Sc	1	2726916	0.84	2551677	106.9	30 - 120	
72	Ge	1	1666996	1.03	1553005	107.3	30 - 120	
115	In	1	4523494	0.86	4260602	106.2	30 - 120	
165	Ho	1	9168658	1.25	8806612	104.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\064SMPL.D\064SMPL.D#
Date Acquired:	Nov 8 2011 09:57 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-56-g
Misc Info:	
Vial Number:	3404
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.25	0.25	ppb	17.95	3600	
51	V	72	1	30.74	30.74	ppb	1.08	3600	
52	Cr	72	1	11.74	11.74	ppb	0.19	3600	
55	Mn	72	1	159.10	159.10	ppb	0.81	18000	
59	Co	72	1	1.33	1.33	ppb	1.99	3600	
60	Ni	72	1	6.23	6.23	ppb	0.82	3600	
63	Cu	72	1	11.52	11.52	ppb	1.52	3600	
66	Zn	72	1	36.58	36.58	ppb	1.23	3600	
75	As	72	1	6.35	6.35	ppb	0.36	3600	
78	Se	72	1	2.33	2.33	ppb	21.88	3600	
95	Mo	72	1	1.93	1.93	ppb	1.52	3600	
107	Ag	115	1	0.14	0.14	ppb	4.01	3600	
111	Cd	115	1	0.21	0.21	ppb	15.57	3600	
118	Sn	115	1	0.37	0.37	ppb	72.96	3600	
121	Sb	115	1	0.18	0.18	ppb	9.08	3600	
137	Ba	115	1	20.55	20.55	ppb	0.82	3600	
205	Tl	165	1	0.18	0.18	ppb	1.49	3600	
208	Pb	165	1	59.92	59.92	ppb	0.64	3600	
232	Th	165	1	12.66	12.66	ppb	2.14	1000	
238	U	165	1	3.17	3.17	ppb	1.69	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	538397	0.47	534602	100.7	30 - 120	
45	Sc	1	2736290	0.11	2551677	107.2	30 - 120	
72	Ge	1	1668816	0.77	1553005	107.5	30 - 120	
115	In	1	4530078	0.82	4260602	106.3	30 - 120	
165	Ho	1	9231707	0.84	8806612	104.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\065SMPL.D\065SMPL.D#
Date Acquired:	Nov 8 2011 10:00 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-57-g
Misc Info:	
Vial Number:	3405
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.24	0.24	ppb	34.39	3600	
51	V	72	1	28.20	28.20	ppb	2.04	3600	
52	Cr	72	1	10.71	10.71	ppb	0.92	3600	
55	Mn	72	1	176.50	176.50	ppb	1.55	18000	
59	Co	72	1	1.35	1.35	ppb	0.60	3600	
60	Ni	72	1	6.08	6.08	ppb	2.25	3600	
63	Cu	72	1	13.17	13.17	ppb	0.84	3600	
66	Zn	72	1	41.51	41.51	ppb	1.35	3600	
75	As	72	1	5.70	5.70	ppb	1.77	3600	
78	Se	72	1	1.98	1.98	ppb	14.56	3600	
95	Mo	72	1	2.18	2.18	ppb	2.60	3600	
107	Ag	115	1	0.14	0.14	ppb	0.12	3600	
111	Cd	115	1	0.19	0.19	ppb	12.18	3600	
118	Sn	115	1	0.20	0.20	ppb	9.34	3600	
121	Sb	115	1	0.20	0.20	ppb	3.18	3600	
137	Ba	115	1	20.71	20.71	ppb	0.85	3600	
205	Tl	165	1	0.15	0.15	ppb	5.07	3600	
208	Pb	165	1	61.77	61.77	ppb	1.42	3600	
232	Th	165	1	9.80	9.80	ppb	1.30	1000	
238	U	165	1	2.92	2.92	ppb	2.13	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532527	0.87	534602	99.6	30 - 120	
45	Sc	1	2710595	0.66	2551677	106.2	30 - 120	
72	Ge	1	1647001	0.46	1553005	106.1	30 - 120	
115	In	1	4504034	0.79	4260602	105.7	30 - 120	
165	Ho	1	9165460	1.21	8806612	104.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\066SMPL.D\066SMPL.D#
Date Acquired: Nov 8 2011 10:03 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-58-i
Misc Info:
Vial Number: 3406
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.31	0.31	ppb	12.92	3600	
51 V	72	1	31.76	31.76	ppb	3.75	3600	
52 Cr	72	1	13.83	13.83	ppb	2.63	3600	
55 Mn	72	1	272.00	272.00	ppb	2.52	18000	
59 Co	72	1	1.76	1.76	ppb	2.26	3600	
60 Ni	72	1	8.04	8.04	ppb	4.69	3600	
63 Cu	72	1	14.91	14.91	ppb	3.50	3600	
66 Zn	72	1	49.48	49.48	ppb	2.97	3600	
75 As	72	1	6.59	6.59	ppb	3.67	3600	
78 Se	72	1	2.34	2.34	ppb	18.67	3600	
95 Mo	72	1	2.29	2.29	ppb	4.25	3600	
107 Ag	115	1	0.13	0.13	ppb	5.63	3600	
111 Cd	115	1	0.27	0.27	ppb	4.07	3600	
118 Sn	115	1	0.30	0.30	ppb	15.46	3600	
121 Sb	115	1	0.22	0.22	ppb	5.32	3600	
137 Ba	115	1	25.30	25.30	ppb	2.12	3600	
205 Tl	165	1	0.19	0.19	ppb	6.00	3600	
208 Pb	165	1	64.37	64.37	ppb	4.15	3600	
232 Th	165	1	11.88	11.88	ppb	3.77	1000	
238 U	165	1	3.29	3.29	ppb	3.25	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	519455	0.84	534602	97.2	30 - 120	
45 Sc	1	2555631	3.71	2551677	100.2	30 - 120	
72 Ge	1	1590045	2.86	1553005	102.4	30 - 120	
115 In	1	4340321	1.86	4260602	101.9	30 - 120	
165 Ho	1	8742514	3.50	8806612	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\067_CCV.D\067_CCV.D#		
Date Acquired:	Nov 8 2011 10:06 pm		
Operator:	LRD	**QC Summary:**	
Sample Name:	CCV-1118466	**Analytes:**	**Pass**
Misc Info:		**ISTD:**	**Pass**
Vial Number:	1107		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal Update:	Nov 08 2011 07:04 pm		
Sample Type:	CCV		
Total Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.35	ppb	1.46	50	104.7	90 - 110	
51	V	72	1	51.30	ppb	2.47	50	102.6	90 - 110	
52	Cr	72	1	50.12	ppb	0.25	50	100.2	90 - 110	
55	Mn	72	1	50.57	ppb	1.92	50	101.1	90 - 110	
59	Co	72	1	50.55	ppb	1.98	50	101.1	90 - 110	
60	Ni	72	1	50.15	ppb	1.61	50	100.3	90 - 110	
63	Cu	72	1	50.48	ppb	1.12	50	101.0	90 - 110	
66	Zn	72	1	49.59	ppb	1.51	50	99.2	90 - 110	
75	As	72	1	50.42	ppb	1.17	50	100.8	90 - 110	
78	Se	72	1	53.19	ppb	1.52	50	106.4	90 - 110	
95	Mo	72	1	50.15	ppb	1.62	50	100.3	90 - 110	
107	Ag	115	1	50.16	ppb	1.46	50	100.3	90 - 110	
111	Cd	115	1	49.57	ppb	0.64	50	99.1	90 - 110	
118	Sn	115	1	47.96	ppb	0.62	50	95.9	90 - 110	
121	Sb	115	1	48.99	ppb	0.34	50	98.0	90 - 110	
137	Ba	115	1	50.23	ppb	0.70	50	100.5	90 - 110	
205	Tl	165	1	51.15	ppb	1.09	50	102.3	90 - 110	
208	Pb	165	1	49.39	ppb	0.97	50	98.8	90 - 110	
232	Th	165	1	50.63	ppb	2.61	50	101.3	90 - 110	
238	U	165	1	49.28	ppb	1.19	50	98.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	525088	0.94	534602	98.2	30 - 120	
45	Sc	1	2667605	0.88	2551677	104.5	30 - 120	
72	Ge	1	1653878	2.35	1553005	106.5	30 - 120	
115	In	1	4579318	0.23	4260602	107.5	30 - 120	
165	Ho	1	9137660	1.06	8806612	103.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\068_CCB.D\068_CCB.D#
Date Acquired: Nov 8 2011 10:09 pm
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.013	ppb	114.10	1.00	
51	V	72	1	0.023	ppb	30.07	1.00	
52	Cr	72	1	0.001	ppb	1325.60	1.00	
55	Mn	72	1	0.024	ppb	24.42	1.00	
59	Co	72	1	0.007	ppb	20.30	1.00	
60	Ni	72	1	-0.020	ppb	34.68	1.00	
63	Cu	72	1	0.001	ppb	1862.70	1.00	
66	Zn	72	1	-0.015	ppb	39.43	1.00	
75	As	72	1	0.006	ppb	164.65	1.00	
78	Se	72	1	-0.068	ppb	76.47	1.00	
95	Mo	72	1	0.009	ppb	25.73	1.00	
107	Ag	115	1	0.008	ppb	17.52	1.00	
111	Cd	115	1	0.005	ppb	77.69	1.00	
118	Sn	115	1	-0.001	ppb	859.90	1.00	
121	Sb	115	1	0.015	ppb	17.51	1.00	
137	Ba	115	1	0.007	ppb	36.28	1.00	
205	Tl	165	1	0.022	ppb	8.90	1.00	
208	Pb	165	1	0.011	ppb	5.40	1.00	
232	Th	165	1	0.045	ppb	4.36	1.00	
238	U	165	1	0.010	ppb	10.49	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	522804	1.32	534602	97.8	30 - 120	
45	Sc	1	2703329	1.30	2551677	105.9	30 - 120	
72	Ge	1	1681604	1.12	1553005	108.3	30 - 120	
115	In	1	4563659	0.68	4260602	107.1	30 - 120	
165	Ho	1	9166635	1.14	8806612	104.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\069WASH.D\069WASH.D#
Date Acquired: Nov 8 2011 10:12 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.142 ppb	10.23	1.30	
51	V	72	1	5.003 ppb	0.51	6.50	
52	Cr	72	1	2.171 ppb	0.19	2.60	
55	Mn	72	1	1.254 ppb	2.69	1.30	
59	Co	72	1	1.098 ppb	2.24	1.30	
60	Ni	72	1	2.266 ppb	3.12	2.60	
63	Cu	72	1	2.194 ppb	1.79	2.60	
66	Zn	72	1	10.540 ppb	0.93	13.00	
75	As	72	1	5.272 ppb	1.16	6.50	
78	Se	72	1	5.774 ppb	8.31	6.50	
95	Mo	72	1	2.172 ppb	3.30	2.60	
107	Ag	115	1	5.109 ppb	1.35	6.50	
111	Cd	115	1	1.094 ppb	3.02	1.30	
118	Sn	115	1	9.866 ppb	1.35	13.00	
121	Sb	115	1	2.075 ppb	3.87	2.60	
137	Ba	115	1	1.125 ppb	4.75	1.30	
205	Tl	165	1	1.107 ppb	1.67	1.30	
208	Pb	165	1	1.080 ppb	1.52	1.30	
232	Th	165	1	2.055 ppb	1.94	2.60	
238	U	165	1	1.059 ppb	1.15	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	524300	0.82	534602	98.1	30 - 120	
45	Sc	1	2735479	1.05	2551677	107.2	30 - 120	
72	Ge	1	1668615	1.19	1553005	107.4	30 - 120	
115	In	1	4582023	1.56	4260602	107.5	30 - 120	
165	Ho	1	9204999	0.81	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\070_BLK.D\070_BLK.D#
Date Acquired:	Nov 8 2011 10:15 pm
Operator:	LRD
Sample Name:	mb 280-94817/1-a
Misc Info:	BLANK 94817 Soil DoD4/6020A
Vial Number:	2401
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.008 ppb	148.48	2.00	
51 V	72	1	0.018 ppb	201.01	2.00	
52 Cr	72	1	0.113 ppb	7.09	2.00	
55 Mn	72	1	0.584 ppb	7.63	2.00	
59 Co	72	1	0.005 ppb	13.70	2.00	
60 Ni	72	1	0.047 ppb	9.78	2.00	
63 Cu	72	1	0.224 ppb	7.72	2.00	
66 Zn	72	1	0.334 ppb	3.12	2.00	
75 As	72	1	0.009 ppb	124.04	2.00	
78 Se	72	1	0.309 ppb	44.72	2.00	
95 Mo	72	1	0.005 ppb	123.37	2.00	
107 Ag	115	1	0.007 ppb	21.61	2.00	
111 Cd	115	1	0.005 ppb	55.80	2.00	
118 Sn	115	1	0.085 ppb	4.88	2.00	
121 Sb	115	1	0.007 ppb	8.28	2.00	
137 Ba	115	1	0.064 ppb	11.74	2.00	
205 Tl	165	1	0.008 ppb	14.73	2.00	
208 Pb	165	1	0.019 ppb	6.75	2.00	
232 Th	165	1	0.022 ppb	9.80	2.00	
238 U	165	1	0.007 ppb	6.80	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	532108	1.12	534602	99.5	30 - 120	
45 Sc	1	2803492	0.48	2551677	109.9	30 - 120	
72 Ge	1	1691338	0.90	1553005	108.9	30 - 120	
115 In	1	4598398	1.83	4260602	107.9	30 - 120	
165 Ho	1	9247036	1.21	8806612	105.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\071_LCS.D\071_LCS.D#
Date Acquired:	Nov 8 2011 10:18 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-94817/2-a
Misc Info:	LCS
Vial Number:	2402
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	43.46	2.06	40	108.7	80 - 120	
51 V	72	1	41.78	2.14	40	104.5	80 - 120	
52 Cr	72	1	41.82	2.31	40	104.6	80 - 120	
55 Mn	72	1	42.59	1.07	40	106.5	80 - 120	
59 Co	72	1	42.79	0.28	40	107.0	80 - 120	
60 Ni	72	1	41.81	0.70	40	104.5	80 - 120	
63 Cu	72	1	41.28	0.55	40	103.2	80 - 120	
66 Zn	72	1	39.99	0.76	40	100.0	80 - 120	
75 As	72	1	41.70	0.67	40	104.3	80 - 120	
78 Se	72	1	42.04	1.81	40	105.1	80 - 120	
95 Mo	72	1	41.00	0.34	40	102.5	80 - 120	
107 Ag	115	1	42.77	3.35	40	106.9	80 - 120	
111 Cd	115	1	41.15	1.90	40	102.9	80 - 120	
118 Sn	115	1	40.19	1.10	40	100.5	80 - 120	
121 Sb	115	1	40.35	1.89	40	100.9	80 - 120	
137 Ba	115	1	42.84	2.15	40	107.1	80 - 120	
205 Tl	165	1	42.20	0.80	40	105.5	80 - 120	
208 Pb	165	1	41.23	0.60	40	103.1	80 - 120	
232 Th	165	1	40.63	1.68	40	101.6	80 - 120	
238 U	165	1	41.30	0.31	40	103.3	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	532577	1.07	534602	99.6	30 - 120	
45 Sc	1	2754657	0.46	2551677	108.0	30 - 120	
72 Ge	1	1695215	0.28	1553005	109.2	30 - 120	
115 In	1	4612730	2.13	4260602	108.3	30 - 120	
165 Ho	1	9271884	0.88	8806612	105.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\072SMPL.D\072SMPL.D#		
Date Acquired:	Nov 8 2011 10:21 pm		
Acq. Method:	NormISIS.M	**QC Summary:**	
Operator:	LRD	**Analytes:**	**Pass**
Sample Name:	280-22000-a-18-c	**ISTD:**	**Pass**
Misc Info:			
Vial Number:	2403		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 07:04 pm		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.22	0.22	ppb	12.72	3600	
51	V	72	1	15.80	15.80	ppb	1.34	3600	
52	Cr	72	1	10.20	10.20	ppb	0.94	3600	
55	Mn	72	1	161.00	161.00	ppb	0.94	18000	
59	Co	72	1	2.85	2.85	ppb	0.98	3600	
60	Ni	72	1	5.79	5.79	ppb	0.98	3600	
63	Cu	72	1	9.21	9.21	ppb	0.76	3600	
66	Zn	72	1	25.10	25.10	ppb	0.41	3600	
75	As	72	1	4.38	4.38	ppb	0.33	3600	
78	Se	72	1	1.15	1.15	ppb	47.70	3600	
95	Mo	72	1	0.43	0.43	ppb	1.85	3600	
107	Ag	115	1	0.06	0.06	ppb	3.69	3600	
111	Cd	115	1	0.11	0.11	ppb	15.50	3600	
118	Sn	115	1	0.12	0.12	ppb	5.61	3600	
121	Sb	115	1	0.04	0.04	ppb	5.45	3600	
137	Ba	115	1	22.20	22.20	ppb	0.82	3600	
205	Tl	165	1	0.18	0.18	ppb	2.27	3600	
208	Pb	165	1	17.58	17.58	ppb	1.40	3600	
232	Th	165	1	5.87	5.87	ppb	1.32	1000	
238	U	165	1	1.16	1.16	ppb	0.58	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	533472	0.76	534602	99.8	30 - 120	
45	Sc	1	2724594	1.84	2551677	106.8	30 - 120	
72	Ge	1	1679172	0.06	1553005	108.1	30 - 120	
115	In	1	4605314	0.65	4260602	108.1	30 - 120	
165	Ho	1	9313145	0.99	8806612	105.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\073SMPL.D\073SMPL.D#	
Date Acquired:	Nov 8 2011 10:23 pm	
Acq. Method:	NormISIS.M	**QC Summary:**
Operator:	LRD	**Analytes: Pass**
Sample Name:	280-22000-a-19-e	**ISTD: Pass**
Misc Info:		
Vial Number:	2404	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 08 2011 07:04 pm	
Sample Type:	SA	
Dilution Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.38	0.38	ppb	15.99	3600	
51	V	72	1	18.34	18.34	ppb	1.50	3600	
52	Cr	72	1	12.57	12.57	ppb	1.48	3600	
55	Mn	72	1	230.30	230.30	ppb	0.87	18000	
59	Co	72	1	4.11	4.11	ppb	1.65	3600	
60	Ni	72	1	7.94	7.94	ppb	0.28	3600	
63	Cu	72	1	6.47	6.47	ppb	0.46	3600	
66	Zn	72	1	19.80	19.80	ppb	0.40	3600	
75	As	72	1	4.44	4.44	ppb	0.68	3600	
78	Se	72	1	1.43	1.43	ppb	34.08	3600	
95	Mo	72	1	0.42	0.42	ppb	2.94	3600	
107	Ag	115	1	0.03	0.03	ppb	16.75	3600	
111	Cd	115	1	0.08	0.08	ppb	10.63	3600	
118	Sn	115	1	0.10	0.10	ppb	10.26	3600	
121	Sb	115	1	0.02	0.02	ppb	9.58	3600	
137	Ba	115	1	17.82	17.82	ppb	0.81	3600	
205	Tl	165	1	0.17	0.17	ppb	1.73	3600	
208	Pb	165	1	8.10	8.10	ppb	0.34	3600	
232	Th	165	1	9.00	9.00	ppb	0.41	1000	
238	U	165	1	1.53	1.53	ppb	0.20	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	536936	0.37	534602	100.4	30 - 120	
45	Sc	1	2776884	1.16	2551677	108.8	30 - 120	
72	Ge	1	1692157	0.46	1553005	109.0	30 - 120	
115	In	1	4549703	1.23	4260602	106.8	30 - 120	
165	Ho	1	9157895	0.64	8806612	104.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\074SMPL.D\074SMPL.D#
Date Acquired:	Nov 8 2011 10:26 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22259-a-1-d
Misc Info:	
Vial Number:	2405
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.58	1.58	ppb	4.12	3600	
51	V	72	1	147.90	147.90	ppb	0.67	3600	
52	Cr	72	1	101.50	101.50	ppb	0.48	3600	
55	Mn	72	1	249.90	249.90	ppb	0.14	18000	
59	Co	72	1	22.47	22.47	ppb	0.85	3600	
60	Ni	72	1	55.42	55.42	ppb	0.50	3600	
63	Cu	72	1	40.61	40.61	ppb	0.44	3600	
66	Zn	72	1	60.68	60.68	ppb	0.03	3600	
75	As	72	1	9.01	9.01	ppb	0.77	3600	
78	Se	72	1	1.68	1.68	ppb	25.12	3600	
95	Mo	72	1	0.21	0.21	ppb	1.52	3600	
107	Ag	115	1	0.06	0.06	ppb	11.91	3600	
111	Cd	115	1	0.18	0.18	ppb	13.35	3600	
118	Sn	115	1	0.11	0.11	ppb	6.83	3600	
121	Sb	115	1	0.02	0.02	ppb	10.41	3600	
137	Ba	115	1	422.50	422.50	ppb	1.06	3600	
205	Tl	165	1	0.30	0.30	ppb	1.90	3600	
208	Pb	165	1	11.80	11.80	ppb	0.76	3600	
232	Th	165	1	9.26	9.26	ppb	0.61	1000	
238	U	165	1	1.18	1.18	ppb	0.90	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	519163	0.47	534602	97.1	30 - 120	
45	Sc	1	2864323	0.33	2551677	112.3	30 - 120	
72	Ge	1	1642625	0.89	1553005	105.8	30 - 120	
115	In	1	4417330	1.00	4260602	103.7	30 - 120	
165	Ho	1	8999995	1.16	8806612	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\075SMPL.D\075SMPL.D#
Date Acquired: Nov 8 2011 10:29 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22259-a-2-d
Misc Info:
Vial Number: 2406
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.69	1.69	ppb	10.23	3600	
51	V	72	1	148.40	148.40	ppb	0.73	3600	
52	Cr	72	1	84.58	84.58	ppb	1.15	3600	
55	Mn	72	1	305.60	305.60	ppb	1.34	18000	
59	Co	72	1	24.94	24.94	ppb	0.12	3600	
60	Ni	72	1	47.79	47.79	ppb	0.35	3600	
63	Cu	72	1	55.90	55.90	ppb	1.70	3600	
66	Zn	72	1	69.81	69.81	ppb	0.87	3600	
75	As	72	1	9.39	9.39	ppb	2.11	3600	
78	Se	72	1	1.95	1.95	ppb	15.92	3600	
95	Mo	72	1	0.20	0.20	ppb	4.29	3600	
107	Ag	115	1	0.13	0.13	ppb	4.11	3600	
111	Cd	115	1	0.22	0.22	ppb	6.27	3600	
118	Sn	115	1	0.10	0.10	ppb	13.34	3600	
121	Sb	115	1	0.02	0.02	ppb	14.25	3600	
137	Ba	115	1	415.20	415.20	ppb	2.53	3600	
205	Tl	165	1	0.21	0.21	ppb	1.15	3600	
208	Pb	165	1	9.71	9.71	ppb	1.07	3600	
232	Th	165	1	10.34	10.34	ppb	1.86	1000	
238	U	165	1	1.25	1.25	ppb	0.90	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	512418	0.42	534602	95.9	30 - 120	
45	Sc	1	2861566	1.34	2551677	112.1	30 - 120	
72	Ge	1	1636124	0.86	1553005	105.4	30 - 120	
115	In	1	4428067	1.03	4260602	103.9	30 - 120	
165	Ho	1	8912784	1.60	8806612	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\076SMPL.D\076SMPL.D#
Date Acquired:	Nov 8 2011 10:32 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-1-e
Misc Info:	
Vial Number:	2407
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.73	1.73	ppb	19.47	3600	
51	V	72	1	189.40	189.40	ppb	1.54	3600	
52	Cr	72	1	51.25	51.25	ppb	2.32	3600	
55	Mn	72	1	673.50	673.50	ppb	1.98	18000	
59	Co	72	1	21.91	21.91	ppb	0.70	3600	
60	Ni	72	1	25.06	25.06	ppb	0.40	3600	
63	Cu	72	1	33.46	33.46	ppb	0.95	3600	
66	Zn	72	1	152.50	152.50	ppb	0.53	3600	
75	As	72	1	1.92	1.92	ppb	4.97	3600	
78	Se	72	1	2.45	2.45	ppb	26.64	3600	
95	Mo	72	1	0.21	0.21	ppb	4.32	3600	
107	Ag	115	1	0.05	0.05	ppb	6.62	3600	
111	Cd	115	1	0.55	0.55	ppb	6.15	3600	
118	Sn	115	1	0.10	0.10	ppb	13.35	3600	
121	Sb	115	1	0.01	0.01	ppb	12.68	3600	
137	Ba	115	1	116.80	116.80	ppb	1.83	3600	
205	Tl	165	1	0.35	0.35	ppb	2.95	3600	
208	Pb	165	1	12.98	12.98	ppb	2.37	3600	
232	Th	165	1	10.42	10.42	ppb	2.53	1000	
238	U	165	1	4.41	4.41	ppb	3.49	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496268	1.37	534602	92.8	30 - 120	
45	Sc	1	2861581	0.47	2551677	112.1	30 - 120	
72	Ge	1	1608533	0.56	1553005	103.6	30 - 120	
115	In	1	4409308	1.29	4260602	103.5	30 - 120	
165	Ho	1	8990252	1.88	8806612	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\077_CCV.D\077_CCV.D#
Date Acquired: Nov 8 2011 10:35 pm
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.30	ppb	3.00	50	104.6	90 - 110	
51	V	72	1	50.63	ppb	1.05	50	101.3	90 - 110	
52	Cr	72	1	49.92	ppb	1.92	50	99.8	90 - 110	
55	Mn	72	1	50.53	ppb	0.94	50	101.1	90 - 110	
59	Co	72	1	50.26	ppb	0.84	50	100.5	90 - 110	
60	Ni	72	1	49.86	ppb	0.86	50	99.7	90 - 110	
63	Cu	72	1	49.45	ppb	0.60	50	98.9	90 - 110	
66	Zn	72	1	49.50	ppb	0.05	50	99.0	90 - 110	
75	As	72	1	50.59	ppb	0.17	50	101.2	90 - 110	
78	Se	72	1	51.36	ppb	0.94	50	102.7	90 - 110	
95	Mo	72	1	50.52	ppb	0.74	50	101.0	90 - 110	
107	Ag	115	1	49.87	ppb	1.85	50	99.7	90 - 110	
111	Cd	115	1	49.10	ppb	1.27	50	98.2	90 - 110	
118	Sn	115	1	48.10	ppb	1.62	50	96.2	90 - 110	
121	Sb	115	1	48.94	ppb	1.36	50	97.9	90 - 110	
137	Ba	115	1	50.30	ppb	0.91	50	100.6	90 - 110	
205	Tl	165	1	50.88	ppb	1.73	50	101.8	90 - 110	
208	Pb	165	1	48.76	ppb	1.81	50	97.5	90 - 110	
232	Th	165	1	49.50	ppb	2.68	50	99.0	90 - 110	
238	U	165	1	48.81	ppb	2.57	50	97.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	527571	1.71	534602	98.7	30 - 120	
45	Sc	1	2682126	0.78	2551677	105.1	30 - 120	
72	Ge	1	1678842	0.98	1553005	108.1	30 - 120	
115	In	1	4648767	0.62	4260602	109.1	30 - 120	
165	Ho	1	9115396	2.08	8806612	103.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\078_CCB.D\078_CCB.D#
Date Acquired:	Nov 8 2011 10:38 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	3263.70	1.00	
51	V	72	1	0.020	ppb	60.13	1.00	
52	Cr	72	1	0.005	ppb	288.49	1.00	
55	Mn	72	1	0.035	ppb	19.32	1.00	
59	Co	72	1	0.005	ppb	36.73	1.00	
60	Ni	72	1	-0.013	ppb	18.08	1.00	
63	Cu	72	1	0.003	ppb	117.49	1.00	
66	Zn	72	1	-0.017	ppb	37.14	1.00	
75	As	72	1	0.007	ppb	68.27	1.00	
78	Se	72	1	0.248	ppb	43.84	1.00	
95	Mo	72	1	0.016	ppb	34.11	1.00	
107	Ag	115	1	0.008	ppb	21.49	1.00	
111	Cd	115	1	0.004	ppb	102.24	1.00	
118	Sn	115	1	-0.002	ppb	423.21	1.00	
121	Sb	115	1	0.014	ppb	15.09	1.00	
137	Ba	115	1	0.019	ppb	17.31	1.00	
205	Tl	165	1	0.014	ppb	6.86	1.00	
208	Pb	165	1	0.008	ppb	13.19	1.00	
232	Th	165	1	0.026	ppb	10.42	1.00	
238	U	165	1	0.009	ppb	5.76	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	518011	1.19	534602	96.9	30 - 120	
45	Sc	1	2730304	1.54	2551677	107.0	30 - 120	
72	Ge	1	1683330	0.76	1553005	108.4	30 - 120	
115	In	1	4565417	0.38	4260602	107.2	30 - 120	
165	Ho	1	9039040	0.30	8806612	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\079WASH.D\079WASH.D#
Date Acquired:	Nov 8 2011 10:41 pm
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.193 ppb	13.29	1.30	
51	V	72	1	5.112 ppb	1.97	6.50	
52	Cr	72	1	2.230 ppb	1.65	2.60	
55	Mn	72	1	1.261 ppb	2.47	1.30	
59	Co	72	1	1.104 ppb	2.49	1.30	
60	Ni	72	1	2.293 ppb	5.48	2.60	
63	Cu	72	1	2.207 ppb	1.36	2.60	
66	Zn	72	1	11.080 ppb	9.91	13.00	
75	As	72	1	5.386 ppb	1.01	6.50	
78	Se	72	1	5.298 ppb	1.70	6.50	
95	Mo	72	1	2.223 ppb	0.65	2.60	
107	Ag	115	1	5.103 ppb	1.80	6.50	
111	Cd	115	1	1.086 ppb	1.65	1.30	
118	Sn	115	1	9.972 ppb	1.43	13.00	
121	Sb	115	1	2.110 ppb	1.76	2.60	
137	Ba	115	1	1.151 ppb	1.20	1.30	
205	Tl	165	1	1.110 ppb	0.91	1.30	
208	Pb	165	1	1.091 ppb	1.26	1.30	
232	Th	165	1	2.088 ppb	0.88	2.60	
238	U	165	1	1.053 ppb	1.19	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	525148	1.07	534602	98.2	30 - 120	
45	Sc	1	2696150	1.91	2551677	105.7	30 - 120	
72	Ge	1	1676118	0.97	1553005	107.9	30 - 120	
115	In	1	4567228	1.32	4260602	107.2	30 - 120	
165	Ho	1	9088104	0.56	8806612	103.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\080SMPL.D\080SMPL.D#
Date Acquired: Nov 8 2011 10:44 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-2-a
Misc Info:
Vial Number: 2408
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.39	2.39	ppb	0.64	3600	
51	V	72	1	92.68	92.68	ppb	0.70	3600	
52	Cr	72	1	45.48	45.48	ppb	1.67	3600	
55	Mn	72	1	805.50	805.50	ppb	1.12	18000	
59	Co	72	1	17.20	17.20	ppb	1.51	3600	
60	Ni	72	1	36.12	36.12	ppb	0.80	3600	
63	Cu	72	1	39.00	39.00	ppb	0.53	3600	
66	Zn	72	1	137.60	137.60	ppb	0.05	3600	
75	As	72	1	13.82	13.82	ppb	1.49	3600	
78	Se	72	1	3.55	3.55	ppb	20.47	3600	
95	Mo	72	1	0.69	0.69	ppb	3.79	3600	
107	Ag	115	1	0.28	0.28	ppb	4.22	3600	
111	Cd	115	1	1.04	1.04	ppb	0.14	3600	
118	Sn	115	1	0.10	0.10	ppb	9.60	3600	
121	Sb	115	1	0.03	0.03	ppb	3.21	3600	
137	Ba	115	1	610.30	610.30	ppb	0.71	3600	
205	Tl	165	1	0.70	0.70	ppb	1.13	3600	
208	Pb	165	1	39.42	39.42	ppb	1.23	3600	
232	Th	165	1	25.48	25.48	ppb	2.15	1000	
238	U	165	1	2.78	2.78	ppb	1.42	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	494259	0.81	534602	92.5	30 - 120	
45	Sc	1	2687813	1.43	2551677	105.3	30 - 120	
72	Ge	1	1596870	0.66	1553005	102.8	30 - 120	
115	In	1	4261123	0.96	4260602	100.0	30 - 120	
165	Ho	1	8844994	1.04	8806612	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\081SMPL.D\081SMPL.D#
Date Acquired:	Nov 8 2011 10:47 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-3-a
Misc Info:	
Vial Number:	2409
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.46	2.46	ppb	7.90	3600	
51	V	72	1	42.15	42.15	ppb	1.02	3600	
52	Cr	72	1	23.77	23.77	ppb	0.45	3600	
55	Mn	72	1	353.70	353.70	ppb	0.29	18000	
59	Co	72	1	20.76	20.76	ppb	0.72	3600	
60	Ni	72	1	19.25	19.25	ppb	0.97	3600	
63	Cu	72	1	75.48	75.48	ppb	1.63	3600	
66	Zn	72	1	118.20	118.20	ppb	0.97	3600	
75	As	72	1	1.81	1.81	ppb	1.41	3600	
78	Se	72	1	2.14	2.14	ppb	9.51	3600	
95	Mo	72	1	0.06	0.06	ppb	3.02	3600	
107	Ag	115	1	0.08	0.08	ppb	3.36	3600	
111	Cd	115	1	0.41	0.41	ppb	10.47	3600	
118	Sn	115	1	0.01	0.01	ppb	142.57	3600	
121	Sb	115	1	0.01	0.01	ppb	23.96	3600	
137	Ba	115	1	142.70	142.70	ppb	1.43	3600	
205	Tl	165	1	0.73	0.73	ppb	2.29	3600	
208	Pb	165	1	33.46	33.46	ppb	2.08	3600	
232	Th	165	1	18.13	18.13	ppb	2.19	1000	
238	U	165	1	5.44	5.44	ppb	1.87	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493150	0.63	534602	92.2	30 - 120	
45	Sc	1	2736219	0.79	2551677	107.2	30 - 120	
72	Ge	1	1592061	1.04	1553005	102.5	30 - 120	
115	In	1	4335582	1.53	4260602	101.8	30 - 120	
165	Ho	1	8856900	1.05	8806612	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\082SMPL.D\082SMPL.D#
Date Acquired:	Nov 8 2011 10:50 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-4-a
Misc Info:	
Vial Number:	2410
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.16	2.16	ppb	6.40	3600	
51	V	72	1	99.82	99.82	ppb	1.94	3600	
52	Cr	72	1	37.14	37.14	ppb	1.93	3600	
55	Mn	72	1	1,228.00	1228.00	ppb	1.02	18000	
59	Co	72	1	18.54	18.54	ppb	1.00	3600	
60	Ni	72	1	28.46	28.46	ppb	0.71	3600	
63	Cu	72	1	34.66	34.66	ppb	0.48	3600	
66	Zn	72	1	116.40	116.40	ppb	0.73	3600	
75	As	72	1	11.48	11.48	ppb	0.07	3600	
78	Se	72	1	3.47	3.47	ppb	3.39	3600	
95	Mo	72	1	0.46	0.46	ppb	4.57	3600	
107	Ag	115	1	0.13	0.13	ppb	5.14	3600	
111	Cd	115	1	0.85	0.85	ppb	4.62	3600	
118	Sn	115	1	0.07	0.07	ppb	14.72	3600	
121	Sb	115	1	0.03	0.03	ppb	7.03	3600	
137	Ba	115	1	923.40	923.40	ppb	1.45	3600	
205	Tl	165	1	0.56	0.56	ppb	0.81	3600	
208	Pb	165	1	26.84	26.84	ppb	0.86	3600	
232	Th	165	1	23.09	23.09	ppb	1.17	1000	
238	U	165	1	2.23	2.23	ppb	0.74	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	478719	0.77	534602	89.5	30 - 120	
45	Sc	1	2642527	0.67	2551677	103.6	30 - 120	
72	Ge	1	1584274	0.57	1553005	102.0	30 - 120	
115	In	1	4251113	1.56	4260602	99.8	30 - 120	
165	Ho	1	8710572	0.24	8806612	98.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\083SMPL.D\083SMPL.D#
Date Acquired: Nov 8 2011 10:52 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-6-a
Misc Info:
Vial Number: 2411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.31	2.31	ppb	3.25	3600	
51	V	72	1	150.70	150.70	ppb	1.37	3600	
52	Cr	72	1	44.11	44.11	ppb	0.39	3600	
55	Mn	72	1	637.20	637.20	ppb	1.58	18000	
59	Co	72	1	32.31	32.31	ppb	0.52	3600	
60	Ni	72	1	34.86	34.86	ppb	1.56	3600	
63	Cu	72	1	49.68	49.68	ppb	1.60	3600	
66	Zn	72	1	167.70	167.70	ppb	0.82	3600	
75	As	72	1	3.41	3.41	ppb	2.20	3600	
78	Se	72	1	2.78	2.78	ppb	6.93	3600	
95	Mo	72	1	0.60	0.60	ppb	2.85	3600	
107	Ag	115	1	0.12	0.12	ppb	13.73	3600	
111	Cd	115	1	0.95	0.95	ppb	0.88	3600	
118	Sn	115	1	0.18	0.18	ppb	3.81	3600	
121	Sb	115	1	0.01	0.01	ppb	8.57	3600	
137	Ba	115	1	100.90	100.90	ppb	1.11	3600	
205	Tl	165	1	0.61	0.61	ppb	1.71	3600	
208	Pb	165	1	18.30	18.30	ppb	1.32	3600	
232	Th	165	1	12.60	12.60	ppb	1.02	1000	
238	U	165	1	3.92	3.92	ppb	1.49	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	486025	0.95	534602	90.9	30 - 120	
45	Sc	1	2735990	0.50	2551677	107.2	30 - 120	
72	Ge	1	1612187	0.81	1553005	103.8	30 - 120	
115	In	1	4281509	0.29	4260602	100.5	30 - 120	
165	Ho	1	8840867	1.45	8806612	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\084SMPL.D\084SMPL.D#
Date Acquired: Nov 8 2011 10:55 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-7-b
Misc Info:
Vial Number: 2412
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.31	2.31	ppb	4.95	3600	
51	V	72	1	114.60	114.60	ppb	1.09	3600	
52	Cr	72	1	36.53	36.53	ppb	2.88	3600	
55	Mn	72	1	925.60	925.60	ppb	1.28	18000	
59	Co	72	1	23.03	23.03	ppb	1.88	3600	
60	Ni	72	1	28.56	28.56	ppb	2.16	3600	
63	Cu	72	1	40.39	40.39	ppb	1.41	3600	
66	Zn	72	1	125.40	125.40	ppb	1.58	3600	
75	As	72	1	8.01	8.01	ppb	1.68	3600	
78	Se	72	1	2.75	2.75	ppb	15.49	3600	
95	Mo	72	1	1.12	1.12	ppb	1.33	3600	
107	Ag	115	1	0.14	0.14	ppb	2.71	3600	
111	Cd	115	1	0.92	0.92	ppb	0.85	3600	
118	Sn	115	1	0.07	0.07	ppb	17.04	3600	
121	Sb	115	1	0.02	0.02	ppb	2.10	3600	
137	Ba	115	1	893.70	893.70	ppb	0.61	3600	
205	Tl	165	1	0.60	0.60	ppb	1.16	3600	
208	Pb	165	1	24.45	24.45	ppb	1.35	3600	
232	Th	165	1	18.75	18.75	ppb	1.38	1000	
238	U	165	1	4.94	4.94	ppb	1.14	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	471859	1.45	534602	88.3	30 - 120	
45	Sc	1	2607167	0.05	2551677	102.2	30 - 120	
72	Ge	1	1552744	0.76	1553005	100.0	30 - 120	
115	In	1	4179555	0.49	4260602	98.1	30 - 120	
165	Ho	1	8617444	0.81	8806612	97.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\085SMPL.D\085SMPL.D#
Date Acquired:	Nov 8 2011 10:58 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-8-a
Misc Info:	
Vial Number:	2501
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.94	1.94	ppb	1.61	3600	
51	V	72	1	95.75	95.75	ppb	1.55	3600	
52	Cr	72	1	32.42	32.42	ppb	1.57	3600	
55	Mn	72	1	897.30	897.30	ppb	2.59	18000	
59	Co	72	1	17.14	17.14	ppb	1.94	3600	
60	Ni	72	1	25.59	25.59	ppb	0.95	3600	
63	Cu	72	1	32.66	32.66	ppb	1.36	3600	
66	Zn	72	1	104.80	104.80	ppb	1.44	3600	
75	As	72	1	8.14	8.14	ppb	0.96	3600	
78	Se	72	1	2.72	2.72	ppb	7.73	3600	
95	Mo	72	1	0.62	0.62	ppb	5.61	3600	
107	Ag	115	1	0.13	0.13	ppb	5.39	3600	
111	Cd	115	1	0.96	0.96	ppb	3.52	3600	
118	Sn	115	1	0.07	0.07	ppb	11.73	3600	
121	Sb	115	1	0.03	0.03	ppb	10.63	3600	
137	Ba	115	1	744.50	744.50	ppb	3.43	3600	
205	Tl	165	1	0.53	0.53	ppb	2.55	3600	
208	Pb	165	1	26.41	26.41	ppb	1.86	3600	
232	Th	165	1	17.01	17.01	ppb	1.27	1000	
238	U	165	1	2.03	2.03	ppb	1.83	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	463889	0.22	534602	86.8	30 - 120	
45	Sc	1	2626221	1.48	2551677	102.9	30 - 120	
72	Ge	1	1572958	0.93	1553005	101.3	30 - 120	
115	In	1	4239586	1.05	4260602	99.5	30 - 120	
165	Ho	1	8678145	1.96	8806612	98.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\086SMPL.D\086SMPL.D#
Date Acquired: Nov 8 2011 11:01 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-10-b
Misc Info:
Vial Number: 2502
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.69	1.69	ppb	8.11	3600	
51	V	72	1	177.10	177.10	ppb	1.79	3600	
52	Cr	72	1	36.71	36.71	ppb	2.06	3600	
55	Mn	72	1	493.00	493.00	ppb	2.05	18000	
59	Co	72	1	23.55	23.55	ppb	2.06	3600	
60	Ni	72	1	18.33	18.33	ppb	2.36	3600	
63	Cu	72	1	28.34	28.34	ppb	1.52	3600	
66	Zn	72	1	121.90	121.90	ppb	1.67	3600	
75	As	72	1	8.28	8.28	ppb	0.61	3600	
78	Se	72	1	2.52	2.52	ppb	16.36	3600	
95	Mo	72	1	0.56	0.56	ppb	8.23	3600	
107	Ag	115	1	0.09	0.09	ppb	1.72	3600	
111	Cd	115	1	0.65	0.65	ppb	6.62	3600	
118	Sn	115	1	0.15	0.15	ppb	5.95	3600	
121	Sb	115	1	0.01	0.01	ppb	19.11	3600	
137	Ba	115	1	2,291.00	2291.00	ppb	1.98	3600	
205	Tl	165	1	0.32	0.32	ppb	2.16	3600	
208	Pb	165	1	13.17	13.17	ppb	1.13	3600	
232	Th	165	1	10.99	10.99	ppb	1.21	1000	
238	U	165	1	1.73	1.73	ppb	0.78	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	468916	0.37	534602	87.7	30 - 120	
45	Sc	1	2724153	1.08	2551677	106.8	30 - 120	
72	Ge	1	1568483	1.79	1553005	101.0	30 - 120	
115	In	1	4203131	1.16	4260602	98.7	30 - 120	
165	Ho	1	8665851	0.30	8806612	98.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\087_CCV.D\087_CCV.D#
Date Acquired:	Nov 8 2011 11:04 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	54.40	ppb	2.66	50	108.8	90 - 110	
51	V	72	1	50.74	ppb	2.29	50	101.5	90 - 110	
52	Cr	72	1	50.01	ppb	1.83	50	100.0	90 - 110	
55	Mn	72	1	51.25	ppb	1.36	50	102.5	90 - 110	
59	Co	72	1	50.97	ppb	1.58	50	101.9	90 - 110	
60	Ni	72	1	50.37	ppb	0.76	50	100.7	90 - 110	
63	Cu	72	1	49.90	ppb	2.38	50	99.8	90 - 110	
66	Zn	72	1	49.44	ppb	1.01	50	98.9	90 - 110	
75	As	72	1	51.15	ppb	1.93	50	102.3	90 - 110	
78	Se	72	1	51.39	ppb	4.27	50	102.8	90 - 110	
95	Mo	72	1	50.83	ppb	1.00	50	101.7	90 - 110	
107	Ag	115	1	50.43	ppb	1.33	50	100.9	90 - 110	
111	Cd	115	1	49.58	ppb	0.28	50	99.2	90 - 110	
118	Sn	115	1	48.17	ppb	0.38	50	96.3	90 - 110	
121	Sb	115	1	49.52	ppb	1.20	50	99.0	90 - 110	
137	Ba	115	1	51.48	ppb	1.86	50	103.0	90 - 110	
205	Tl	165	1	51.27	ppb	0.36	50	102.5	90 - 110	
208	Pb	165	1	49.28	ppb	0.16	50	98.6	90 - 110	
232	Th	165	1	49.73	ppb	1.49	50	99.5	90 - 110	
238	U	165	1	48.34	ppb	0.66	50	96.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	488213	0.69	534602	91.3	30 - 120	
45	Sc	1	2624154	1.49	2551677	102.8	30 - 120	
72	Ge	1	1637499	0.88	1553005	105.4	30 - 120	
115	In	1	4499395	0.21	4260602	105.6	30 - 120	
165	Ho	1	8951159	0.73	8806612	101.6	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\088_CCB.D\088_CCB.D#
Date Acquired:	Nov 8 2011 11:07 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.005	ppb	319.93	1.00	
51	V	72	1	0.020	ppb	85.43	1.00	
52	Cr	72	1	0.012	ppb	162.69	1.00	
55	Mn	72	1	0.061	ppb	8.14	1.00	
59	Co	72	1	0.008	ppb	16.49	1.00	
60	Ni	72	1	-0.016	ppb	76.11	1.00	
63	Cu	72	1	-0.001	ppb	155.73	1.00	
66	Zn	72	1	-0.015	ppb	66.63	1.00	
75	As	72	1	0.009	ppb	53.48	1.00	
78	Se	72	1	0.146	ppb	93.95	1.00	
95	Mo	72	1	0.007	ppb	85.17	1.00	
107	Ag	115	1	0.009	ppb	22.42	1.00	
111	Cd	115	1	0.004	ppb	149.01	1.00	
118	Sn	115	1	0.005	ppb	255.83	1.00	
121	Sb	115	1	0.014	ppb	16.88	1.00	
137	Ba	115	1	0.087	ppb	7.64	1.00	
205	Tl	165	1	0.020	ppb	10.85	1.00	
208	Pb	165	1	0.009	ppb	3.08	1.00	
232	Th	165	1	0.024	ppb	3.90	1.00	
238	U	165	1	0.009	ppb	2.30	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493774	0.32	534602	92.4	30 - 120	
45	Sc	1	2668806	0.59	2551677	104.6	30 - 120	
72	Ge	1	1647268	2.11	1553005	106.1	30 - 120	
115	In	1	4528016	1.57	4260602	106.3	30 - 120	
165	Ho	1	9030484	1.67	8806612	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\089WASH.D\089WASH.D#
Date Acquired: Nov 8 2011 11:10 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.222	ppb	8.68	1.30	
51	V	72	1	5.043	ppb	3.12	6.50	
52	Cr	72	1	2.237	ppb	4.13	2.60	
55	Mn	72	1	1.307	ppb	5.12	1.30	
59	Co	72	1	1.100	ppb	5.00	1.30	
60	Ni	72	1	2.315	ppb	4.71	2.60	
63	Cu	72	1	2.238	ppb	3.25	2.60	
66	Zn	72	1	10.600	ppb	3.71	13.00	
75	As	72	1	5.385	ppb	1.74	6.50	
78	Se	72	1	5.634	ppb	7.91	6.50	
95	Mo	72	1	2.257	ppb	3.78	2.60	
107	Ag	115	1	5.194	ppb	1.81	6.50	
111	Cd	115	1	1.095	ppb	4.81	1.30	
118	Sn	115	1	10.110	ppb	5.23	13.00	
121	Sb	115	1	2.127	ppb	5.68	2.60	
137	Ba	115	1	1.232	ppb	3.77	1.30	
205	Tl	165	1	1.134	ppb	3.80	1.30	
208	Pb	165	1	1.110	ppb	4.25	1.30	
232	Th	165	1	2.143	ppb	6.98	2.60	
238	U	165	1	1.079	ppb	6.45	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	490831	2.82	534602	91.8	30 - 120	
45	Sc	1	2577577	3.93	2551677	101.0	30 - 120	
72	Ge	1	1626318	3.06	1553005	104.7	30 - 120	
115	In	1	4460998	3.25	4260602	104.7	30 - 120	
165	Ho	1	8744665	4.07	8806612	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\090AREF.D\090AREF.D#
Date Acquired: Nov 8 2011 11:13 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-13-a
Misc Info:
Vial Number: 2503
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.50	2.50	ppb	3.88	3600	
51	V	72	1	91.59	91.59	ppb	0.88	3600	
52	Cr	72	1	41.86	41.86	ppb	0.87	3600	
55	Mn	72	1	788.10	788.10	ppb	1.01	18000	
59	Co	72	1	17.51	17.51	ppb	0.96	3600	
60	Ni	72	1	34.42	34.42	ppb	0.53	3600	
63	Cu	72	1	36.19	36.19	ppb	0.97	3600	
66	Zn	72	1	127.40	127.40	ppb	1.04	3600	
75	As	72	1	11.56	11.56	ppb	1.52	3600	
78	Se	72	1	3.75	3.75	ppb	9.98	3600	
95	Mo	72	1	0.64	0.64	ppb	7.41	3600	
107	Ag	115	1	0.23	0.23	ppb	6.93	3600	
111	Cd	115	1	1.16	1.16	ppb	5.21	3600	
118	Sn	115	1	0.14	0.14	ppb	4.04	3600	
121	Sb	115	1	0.03	0.03	ppb	13.71	3600	
137	Ba	115	1	578.10	578.10	ppb	2.17	3600	
205	Tl	165	1	0.70	0.70	ppb	0.93	3600	
208	Pb	165	1	30.66	30.66	ppb	0.57	3600	
232	Th	165	1	23.83	23.83	ppb	1.56	1000	
238	U	165	1	2.37	2.37	ppb	1.78	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457557	1.41	534602	85.6	30 - 120	
45	Sc	1	2571793	0.67	2551677	100.8	30 - 120	
72	Ge	1	1545349	0.55	1553005	99.5	30 - 120	
115	In	1	4121207	1.40	4260602	96.7	30 - 120	
165	Ho	1	8424704	0.56	8806612	95.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\091SDIL.D\091SDIL.D#
Date Acquired: Nov 8 2011 11:16 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-13-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2504
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\090AREF.D\090AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)			Flag
9	Be	6	1	0.48	ppb	14.30	0.50	96.1	90	-	110	
51	V	72	1	17.84	ppb	0.73	18.32	97.4	90	-	110	
52	Cr	72	1	8.23	ppb	1.26	8.37	98.3	90	-	110	
55	Mn	72	1	163.90	ppb	0.76	157.62	104.0	90	-	110	
59	Co	72	1	3.63	ppb	1.80	3.50	103.5	90	-	110	
60	Ni	72	1	7.08	ppb	0.08	6.88	102.8	90	-	110	
63	Cu	72	1	7.70	ppb	0.36	7.24	106.3	90	-	110	
66	Zn	72	1	26.44	ppb	0.94	25.48	103.8	90	-	110	
75	As	72	1	2.37	ppb	0.18	2.31	102.3	90	-	110	
78	Se	72	1	0.93	ppb	10.53	0.75	124.6	90	-	110	
95	Mo	72	1	0.14	ppb	7.92	0.13	107.5	90	-	110	
107	Ag	115	1	0.05	ppb	11.26	0.05	100.5	90	-	110	
111	Cd	115	1	0.23	ppb	8.52	0.23	100.4	90	-	110	
118	Sn	115	1	0.12	ppb	7.36	0.03	423.7	90	-	110	
121	Sb	115	1	0.01	ppb	4.54	0.01	121.3	90	-	110	
137	Ba	115	1	111.40	ppb	1.44	115.62	96.4	90	-	110	
205	Tl	165	1	0.14	ppb	0.86	0.14	102.6	90	-	110	
208	Pb	165	1	6.14	ppb	2.13	6.13	100.2	90	-	110	
232	Th	165	1	4.56	ppb	1.94	4.77	95.7	90	-	110	
238	U	165	1	0.46	ppb	1.28	0.47	97.4	90	-	110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	481319	1.26	534602	90.0	30	-	120	
45	Sc	1	2614390	0.48	2551677	102.5	30	-	120	
72	Ge	1	1605727	1.16	1553005	103.4	30	-	120	
115	In	1	4426658	1.51	4260602	103.9	30	-	120	
165	Ho	1	8932475	1.25	8806612	101.4	30	-	120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\092PDS.D\092PDS.D#
Date Acquired: Nov 8 2011 11:18 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-13-a PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 2505
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	216.70	2.50	ppb	1.54	200	107.0	75 - 125	
51 V	72	1	276.40	91.59	ppb	1.63	200	94.8	75 - 125	
52 Cr	72	1	230.50	41.86	ppb	2.46	200	95.3	75 - 125	
55 Mn	72	1	956.00	788.10	ppb	1.65	200	96.8	75 - 125	
59 Co	72	1	204.90	17.51	ppb	2.42	200	94.2	75 - 125	
60 Ni	72	1	229.20	34.42	ppb	2.43	200	97.8	75 - 125	
63 Cu	72	1	215.20	36.19	ppb	2.08	200	91.1	75 - 125	
66 Zn	72	1	315.70	127.40	ppb	2.61	200	96.4	75 - 125	
75 As	72	1	211.10	11.56	ppb	1.79	200	99.8	75 - 125	
78 Se	72	1	202.90	3.75	ppb	0.33	200	99.6	75 - 125	
95 Mo	72	1	208.20	0.64	ppb	2.75	200	103.8	75 - 125	
107 Ag	115	1	48.64	0.23	ppb	1.42	50	96.8	75 - 125	
111 Cd	115	1	199.50	1.16	ppb	0.93	200	99.2	75 - 125	
118 Sn	115	1	198.80	0.14	ppb	1.53	200	99.3	75 - 125	
121 Sb	115	1	203.50	0.03	ppb	0.83	200	101.7	75 - 125	
137 Ba	115	1	766.20	578.10	ppb	1.64	200	98.5	75 - 125	
205 Tl	165	1	193.20	0.70	ppb	0.16	200	96.3	75 - 125	
208 Pb	165	1	215.30	30.66	ppb	1.14	200	93.3	75 - 125	
232 Th	165	1	22.96	23.83	ppb	2.29	200	10.3	75 - 125	
238 U	165	1	190.40	2.37	ppb	0.35	200	94.1	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	455900	1.17	534602	85.3	30 - 120	
45 Sc	1	2574870	1.63	2551677	100.9	30 - 120	
72 Ge	1	1528049	2.09	1553005	98.4	30 - 120	
115 In	1	4110802	0.97	4260602	96.5	30 - 120	
165 Ho	1	8482258	0.51	8806612	96.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\093_MS.D\093_MS.D#
Date Acquired: Nov 8 2011 11:21 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-13-b ms
Misc Info: MATRIX SPIKE
Vial Number: 2506
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	46.14	2.50	ppb	1.57	40	108.6	50 - 150	
51 V	72	1	132.40	91.59	ppb	1.37	40	100.6	50 - 150	
52 Cr	72	1	79.18	41.86	ppb	2.21	40	96.7	50 - 150	
55 Mn	72	1	788.70	788.10	ppb	0.39	40	95.2	50 - 150	
59 Co	72	1	57.02	17.51	ppb	1.82	40	99.1	50 - 150	
60 Ni	72	1	69.07	34.42	ppb	0.45	40	92.8	50 - 150	
63 Cu	72	1	72.77	36.19	ppb	1.43	40	95.5	50 - 150	
66 Zn	72	1	151.80	127.40	ppb	0.58	40	90.7	50 - 150	
75 As	72	1	51.03	11.56	ppb	0.93	40	99.0	50 - 150	
78 Se	72	1	42.80	3.75	ppb	2.26	40	97.8	50 - 150	
95 Mo	72	1	28.65	0.64	ppb	0.60	40	70.5	50 - 150	
107 Ag	115	1	37.52	0.23	ppb	0.49	40	93.3	50 - 150	
111 Cd	115	1	40.82	1.16	ppb	0.78	40	99.2	50 - 150	
118 Sn	115	1	3.44	0.14	ppb	1.79	40	8.6	50 - 150	
121 Sb	115	1	0.96	0.03	ppb	3.04	40	2.4	50 - 150	
137 Ba	115	1	606.40	578.10	ppb	0.74	40	98.1	50 - 150	
205 Tl	165	1	41.04	0.70	ppb	0.63	40	100.8	50 - 150	
208 Pb	165	1	65.14	30.66	ppb	0.19	40	92.2	50 - 150	
232 Th	165	1	60.55	23.83	ppb	0.44	40	94.9	50 - 150	
238 U	165	1	42.47	2.37	ppb	0.55	40	100.2	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	461248	1.31	534602	86.3	30 - 120	
45 Sc	1	2583516	1.01	2551677	101.2	30 - 120	
72 Ge	1	1512809	1.09	1553005	97.4	30 - 120	
115 In	1	4172113	0.67	4260602	97.9	30 - 120	
165 Ho	1	8492205	0.44	8806612	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\094_MSD.D\094_MSD.D#
Date Acquired:	Nov 8 2011 11:24 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-13-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	2507
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\093_MS.D\093_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	47.32	ppb	1.24	46.14	2.53	20	
51	V	72	1	126.90	ppb	0.87	132.40	4.24	20	
52	Cr	72	1	80.25	ppb	1.22	79.18	1.34	20	
55	Mn	72	1	786.40	ppb	1.68	788.70	0.29	20	
59	Co	72	1	56.90	ppb	0.73	57.02	0.21	20	
60	Ni	72	1	71.02	ppb	1.03	69.07	2.78	20	
63	Cu	72	1	74.33	ppb	0.61	72.77	2.12	20	
66	Zn	72	1	156.50	ppb	0.93	151.80	3.05	20	
75	As	72	1	50.85	ppb	1.61	51.03	0.35	20	
78	Se	72	1	42.35	ppb	2.43	42.80	1.06	20	
95	Mo	72	1	28.34	ppb	1.48	28.65	1.09	20	
107	Ag	115	1	39.34	ppb	1.39	37.52	4.74	20	
111	Cd	115	1	41.71	ppb	1.74	40.82	2.16	20	
118	Sn	115	1	3.56	ppb	1.13	3.44	3.40	20	
121	Sb	115	1	1.03	ppb	3.40	0.96	7.17	20	
137	Ba	115	1	594.10	ppb	3.35	606.40	2.05	20	
205	Tl	165	1	41.35	ppb	0.89	41.04	0.75	20	
208	Pb	165	1	67.35	ppb	1.24	65.14	3.34	20	
232	Th	165	1	61.67	ppb	1.44	60.55	1.83	20	
238	U	165	1	42.90	ppb	2.28	42.47	1.01	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454726	0.59	534602	85.1	30 - 120	
45	Sc	1	2591223	0.28	2551677	101.5	30 - 120	
72	Ge	1	1547985	1.37	1553005	99.7	30 - 120	
115	In	1	4169095	2.25	4260602	97.9	30 - 120	
165	Ho	1	8520215	0.28	8806612	96.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\095SMPL.D\095SMPL.D#
Date Acquired:	Nov 8 2011 11:27 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-11-b
Misc Info:	
Vial Number:	2508
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.24	2.24	ppb	7.21	3600	
51	V	72	1	102.70	102.70	ppb	1.36	3600	
52	Cr	72	1	34.58	34.58	ppb	1.87	3600	
55	Mn	72	1	765.60	765.60	ppb	0.94	18000	
59	Co	72	1	17.17	17.17	ppb	1.57	3600	
60	Ni	72	1	28.47	28.47	ppb	0.96	3600	
63	Cu	72	1	36.22	36.22	ppb	0.71	3600	
66	Zn	72	1	111.90	111.90	ppb	1.01	3600	
75	As	72	1	8.25	8.25	ppb	0.76	3600	
78	Se	72	1	3.06	3.06	ppb	7.87	3600	
95	Mo	72	1	0.52	0.52	ppb	6.75	3600	
107	Ag	115	1	0.21	0.21	ppb	2.73	3600	
111	Cd	115	1	0.99	0.99	ppb	4.01	3600	
118	Sn	115	1	0.07	0.07	ppb	17.15	3600	
121	Sb	115	1	0.03	0.03	ppb	15.10	3600	
137	Ba	115	1	556.50	556.50	ppb	1.65	3600	
205	Tl	165	1	0.59	0.59	ppb	1.15	3600	
208	Pb	165	1	24.28	24.28	ppb	0.88	3600	
232	Th	165	1	19.10	19.10	ppb	1.84	1000	
238	U	165	1	2.12	2.12	ppb	1.50	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457270	0.70	534602	85.5	30 - 120	
45	Sc	1	2599628	0.91	2551677	101.9	30 - 120	
72	Ge	1	1544148	1.09	1553005	99.4	30 - 120	
115	In	1	4164817	0.67	4260602	97.8	30 - 120	
165	Ho	1	8424628	0.87	8806612	95.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\096SMPL.D\096SMPL.D#
Date Acquired: Nov 8 2011 11:30 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-12-a
Misc Info:
Vial Number: 2509
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.85	0.85	ppb	13.69	3600	
51	V	72	1	220.40	220.40	ppb	1.32	3600	
52	Cr	72	1	27.92	27.92	ppb	1.62	3600	
55	Mn	72	1	478.20	478.20	ppb	1.68	18000	
59	Co	72	1	22.95	22.95	ppb	1.64	3600	
60	Ni	72	1	18.16	18.16	ppb	1.65	3600	
63	Cu	72	1	26.51	26.51	ppb	1.40	3600	
66	Zn	72	1	99.80	99.80	ppb	0.61	3600	
75	As	72	1	6.65	6.65	ppb	0.72	3600	
78	Se	72	1	1.49	1.49	ppb	9.46	3600	
95	Mo	72	1	1.06	1.06	ppb	3.84	3600	
107	Ag	115	1	0.12	0.12	ppb	4.84	3600	
111	Cd	115	1	0.87	0.87	ppb	9.67	3600	
118	Sn	115	1	0.19	0.19	ppb	14.39	3600	
121	Sb	115	1	0.02	0.02	ppb	14.34	3600	
137	Ba	115	1	577.20	577.20	ppb	1.52	3600	
205	Tl	165	1	0.44	0.44	ppb	1.03	3600	
208	Pb	165	1	13.86	13.86	ppb	0.26	3600	
232	Th	165	1	14.03	14.03	ppb	0.72	1000	
238	U	165	1	3.48	3.48	ppb	0.62	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	464157	1.29	534602	86.8	30 - 120	
45	Sc	1	2743427	0.78	2551677	107.5	30 - 120	
72	Ge	1	1591150	1.27	1553005	102.5	30 - 120	
115	In	1	4248036	0.70	4260602	99.7	30 - 120	
165	Ho	1	8673004	0.45	8806612	98.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\097_CCV.D\097_CCV.D#
Date Acquired: Nov 8 2011 11:33 pm
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	54.44	ppb	1.68	50	108.9	90 - 110	
51	V	72	1	51.12	ppb	1.63	50	102.2	90 - 110	
52	Cr	72	1	50.60	ppb	1.28	50	101.2	90 - 110	
55	Mn	72	1	51.09	ppb	2.23	50	102.2	90 - 110	
59	Co	72	1	51.23	ppb	2.31	50	102.5	90 - 110	
60	Ni	72	1	50.29	ppb	1.80	50	100.6	90 - 110	
63	Cu	72	1	49.91	ppb	2.21	50	99.8	90 - 110	
66	Zn	72	1	49.17	ppb	1.20	50	98.3	90 - 110	
75	As	72	1	51.05	ppb	0.78	50	102.1	90 - 110	
78	Se	72	1	51.84	ppb	3.68	50	103.7	90 - 110	
95	Mo	72	1	50.23	ppb	0.58	50	100.5	90 - 110	
107	Ag	115	1	50.51	ppb	2.46	50	101.0	90 - 110	
111	Cd	115	1	49.50	ppb	1.30	50	99.0	90 - 110	
118	Sn	115	1	47.94	ppb	1.14	50	95.9	90 - 110	
121	Sb	115	1	49.36	ppb	1.56	50	98.7	90 - 110	
137	Ba	115	1	50.89	ppb	1.41	50	101.8	90 - 110	
205	Tl	165	1	50.94	ppb	0.36	50	101.9	90 - 110	
208	Pb	165	1	49.69	ppb	0.79	50	99.4	90 - 110	
232	Th	165	1	50.32	ppb	0.77	50	100.6	90 - 110	
238	U	165	1	48.94	ppb	2.34	50	97.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	483293	0.18	534602	90.4	30 - 120	
45	Sc	1	2661555	1.80	2551677	104.3	30 - 120	
72	Ge	1	1659550	0.58	1553005	106.9	30 - 120	
115	In	1	4532716	1.21	4260602	106.4	30 - 120	
165	Ho	1	8815403	1.35	8806612	100.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\098_CCB.D\098_CCB.D#
Date Acquired:	Nov 8 2011 11:36 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.027	ppb	113.36	1.00	
51	V	72	1	0.033	ppb	24.28	1.00	
52	Cr	72	1	0.000	ppb	3928.00	1.00	
55	Mn	72	1	0.070	ppb	3.91	1.00	
59	Co	72	1	0.010	ppb	13.33	1.00	
60	Ni	72	1	-0.013	ppb	50.36	1.00	
63	Cu	72	1	0.000	ppb	5269.10	1.00	
66	Zn	72	1	-0.009	ppb	76.08	1.00	
75	As	72	1	0.010	ppb	53.24	1.00	
78	Se	72	1	0.393	ppb	20.82	1.00	
95	Mo	72	1	0.010	ppb	36.95	1.00	
107	Ag	115	1	0.010	ppb	4.77	1.00	
111	Cd	115	1	0.011	ppb	32.58	1.00	
118	Sn	115	1	0.010	ppb	79.96	1.00	
121	Sb	115	1	0.014	ppb	18.17	1.00	
137	Ba	115	1	0.061	ppb	5.62	1.00	
205	Tl	165	1	0.014	ppb	5.60	1.00	
208	Pb	165	1	0.010	ppb	5.35	1.00	
232	Th	165	1	0.025	ppb	2.77	1.00	
238	U	165	1	0.010	ppb	10.14	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	488926	0.60	534602	91.5	30 - 120	
45	Sc	1	2686689	1.75	2551677	105.3	30 - 120	
72	Ge	1	1680917	1.05	1553005	108.2	30 - 120	
115	In	1	4588004	1.37	4260602	107.7	30 - 120	
165	Ho	1	8929259	0.77	8806612	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\099WASH.D\099WASH.D#
Date Acquired: Nov 8 2011 11:38 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.231 ppb	8.93	1.30	
51 V	72	1	5.040 ppb	0.61	6.50	
52 Cr	72	1	2.175 ppb	1.49	2.60	
55 Mn	72	1	1.277 ppb	3.07	1.30	
59 Co	72	1	1.108 ppb	1.96	1.30	
60 Ni	72	1	2.332 ppb	1.64	2.60	
63 Cu	72	1	2.274 ppb	0.45	2.60	
66 Zn	72	1	10.560 ppb	1.32	13.00	
75 As	72	1	5.401 ppb	3.13	6.50	
78 Se	72	1	5.660 ppb	2.57	6.50	
95 Mo	72	1	2.181 ppb	2.58	2.60	
107 Ag	115	1	5.159 ppb	0.91	6.50	
111 Cd	115	1	1.081 ppb	1.41	1.30	
118 Sn	115	1	10.040 ppb	0.87	13.00	
121 Sb	115	1	2.108 ppb	2.02	2.60	
137 Ba	115	1	1.188 ppb	2.31	1.30	
205 Tl	165	1	1.107 ppb	1.44	1.30	
208 Pb	165	1	1.087 ppb	1.35	1.30	
232 Th	165	1	2.060 ppb	3.07	2.60	
238 U	165	1	1.038 ppb	2.69	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	497056	1.62	534602	93.0	30 - 120	
45 Sc	1	2702119	0.95	2551677	105.9	30 - 120	
72 Ge	1	1667327	1.26	1553005	107.4	30 - 120	
115 In	1	4548174	0.38	4260602	106.7	30 - 120	
165 Ho	1	8926114	1.50	8806612	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\100_BLK.D\100_BLK.D#
Date Acquired: Nov 8 2011 11:41 pm
Operator: LRD
Sample Name: mb 280-93880/1-a
Misc Info: BLANK 93880 Soil DoD4/6020A
Vial Number: 2510
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.005 ppb	320.39	2.00	
51 V	72	1	0.014 ppb	186.61	2.00	
52 Cr	72	1	0.067 ppb	8.25	2.00	
55 Mn	72	1	0.084 ppb	7.16	2.00	
59 Co	72	1	0.005 ppb	29.08	2.00	
60 Ni	72	1	0.017 ppb	65.43	2.00	
63 Cu	72	1	0.133 ppb	6.47	2.00	
66 Zn	72	1	0.318 ppb	6.77	2.00	
75 As	72	1	0.005 ppb	75.66	2.00	
78 Se	72	1	0.216 ppb	58.41	2.00	
95 Mo	72	1	0.011 ppb	22.59	2.00	
107 Ag	115	1	0.005 ppb	37.55	2.00	
111 Cd	115	1	0.006 ppb	133.97	2.00	
118 Sn	115	1	0.111 ppb	10.78	2.00	
121 Sb	115	1	0.008 ppb	24.28	2.00	
137 Ba	115	1	0.118 ppb	6.17	2.00	
205 Tl	165	1	0.005 ppb	26.72	2.00	
208 Pb	165	1	0.017 ppb	4.64	2.00	
232 Th	165	1	0.011 ppb	15.90	2.00	
238 U	165	1	0.006 ppb	5.74	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	493996	0.60	534602	92.4	30 - 120	
45 Sc	1	2703211	0.79	2551677	105.9	30 - 120	
72 Ge	1	1700218	1.93	1553005	109.5	30 - 120	
115 In	1	4584297	1.67	4260602	107.6	30 - 120	
165 Ho	1	8968320	1.20	8806612	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\101_LCS.D\101_LCS.D#
Date Acquired:	Nov 8 2011 11:44 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-93880/2-a
Misc Info:	LCS
Vial Number:	2511
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	43.74	2.18	40	109.4	80 - 120	
51	V	72	1	40.92	0.53	40	102.3	80 - 120	
52	Cr	72	1	41.32	1.76	40	103.3	80 - 120	
55	Mn	72	1	40.08	1.59	40	100.2	80 - 120	
59	Co	72	1	41.56	2.43	40	103.9	80 - 120	
60	Ni	72	1	40.80	1.21	40	102.0	80 - 120	
63	Cu	72	1	39.98	1.93	40	100.0	80 - 120	
66	Zn	72	1	38.98	0.99	40	97.5	80 - 120	
75	As	72	1	41.33	1.36	40	103.3	80 - 120	
78	Se	72	1	43.55	5.08	40	108.9	80 - 120	
95	Mo	72	1	40.40	1.64	40	101.0	80 - 120	
107	Ag	115	1	40.19	0.35	40	100.5	80 - 120	
111	Cd	115	1	39.94	1.10	40	99.9	80 - 120	
118	Sn	115	1	38.89	0.40	40	97.2	80 - 120	
121	Sb	115	1	39.59	0.56	40	99.0	80 - 120	
137	Ba	115	1	41.63	0.62	40	104.1	80 - 120	
205	Tl	165	1	41.31	1.12	40	103.3	80 - 120	
208	Pb	165	1	40.15	1.85	40	100.4	80 - 120	
232	Th	165	1	39.25	1.24	40	98.1	80 - 120	
238	U	165	1	39.52	1.43	40	98.8	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	498189	1.81	534602	93.2	30 - 120	
45	Sc	1	2753057	0.42	2551677	107.9	30 - 120	
72	Ge	1	1687917	1.64	1553005	108.7	30 - 120	
115	In	1	4568836	0.59	4260602	107.2	30 - 120	
165	Ho	1	8974050	0.94	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\102AREF.D\102AREF.D#
Date Acquired:	Nov 8 2011 11:47 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-1-a
Misc Info:	
Vial Number:	2512
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.44	0.44	ppb	12.96	3600	
51	V	72	1	19.89	19.89	ppb	1.49	3600	
52	Cr	72	1	12.90	12.90	ppb	1.18	3600	
55	Mn	72	1	63.34	63.34	ppb	1.48	18000	
59	Co	72	1	2.17	2.17	ppb	2.40	3600	
60	Ni	72	1	6.91	6.91	ppb	1.23	3600	
63	Cu	72	1	6.32	6.32	ppb	1.41	3600	
66	Zn	72	1	24.10	24.10	ppb	1.35	3600	
75	As	72	1	5.00	5.00	ppb	0.96	3600	
78	Se	72	1	1.34	1.34	ppb	15.42	3600	
95	Mo	72	1	1.39	1.39	ppb	2.76	3600	
107	Ag	115	1	0.05	0.05	ppb	7.73	3600	
111	Cd	115	1	0.20	0.20	ppb	18.98	3600	
118	Sn	115	1	0.49	0.49	ppb	2.08	3600	
121	Sb	115	1	0.03	0.03	ppb	14.99	3600	
137	Ba	115	1	10.93	10.93	ppb	2.96	3600	
205	Tl	165	1	0.22	0.22	ppb	5.27	3600	
208	Pb	165	1	8.97	8.97	ppb	0.12	3600	
232	Th	165	1	4.55	4.55	ppb	0.89	1000	
238	U	165	1	1.53	1.53	ppb	0.76	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	486146	0.93	534602	90.9	30 - 120	
45	Sc	1	2675030	1.93	2551677	104.8	30 - 120	
72	Ge	1	1640612	0.82	1553005	105.6	30 - 120	
115	In	1	4517045	2.14	4260602	106.0	30 - 120	
165	Ho	1	8892010	0.31	8806612	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\103SDIL.D\103SDIL.D#
Date Acquired: Nov 8 2011 11:50 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-1-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\102AREF.D\102AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.09	ppb	1.09	0.09	99.1	90 - 110	
51	V	72	1	3.98	ppb	2.24	3.98	100.0	90 - 110	
52	Cr	72	1	2.55	ppb	0.87	2.58	98.8	90 - 110	
55	Mn	72	1	12.24	ppb	2.15	12.67	96.6	90 - 110	
59	Co	72	1	0.44	ppb	1.58	0.43	100.6	90 - 110	
60	Ni	72	1	1.37	ppb	3.08	1.38	98.9	90 - 110	
63	Cu	72	1	1.28	ppb	3.28	1.26	101.1	90 - 110	
66	Zn	72	1	4.84	ppb	0.97	4.82	100.4	90 - 110	
75	As	72	1	1.02	ppb	3.68	1.00	101.8	90 - 110	
78	Se	72	1	0.38	ppb	32.76	0.27	143.6	90 - 110	
95	Mo	72	1	0.28	ppb	7.96	0.28	101.7	90 - 110	
107	Ag	115	1	0.01	ppb	12.65	0.01	103.5	90 - 110	
111	Cd	115	1	0.05	ppb	34.56	0.04	132.5	90 - 110	
118	Sn	115	1	0.10	ppb	9.36	0.10	101.0	90 - 110	
121	Sb	115	1	0.01	ppb	24.41	0.01	147.3	90 - 110	
137	Ba	115	1	2.23	ppb	1.91	2.19	102.2	90 - 110	
205	Tl	165	1	0.04	ppb	3.17	0.04	96.9	90 - 110	
208	Pb	165	1	1.84	ppb	1.02	1.79	102.7	90 - 110	
232	Th	165	1	0.92	ppb	1.33	0.91	100.6	90 - 110	
238	U	165	1	0.30	ppb	0.83	0.31	98.4	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492353	1.04	534602	92.1	30 - 120	
45	Sc	1	2664971	0.22	2551677	104.4	30 - 120	
72	Ge	1	1691315	1.89	1553005	108.9	30 - 120	
115	In	1	4496459	0.58	4260602	105.5	30 - 120	
165	Ho	1	8975182	0.82	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\104PDS.D\104PDS.D#		
Date Acquired:	Nov 8 2011 11:53 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	LRD	ISTD:	Pass
Sample Name:	280-22000-a-1-a PDS		
Misc Info:	POST DIGESTION SPIKE		
Vial Number:	3102		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 07:04 pm		
Sample Type:	PDS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		
Spike Ref. File:	---		

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	212.30	0.44	ppb	0.69	200	105.9	75 - 125	
51 V	72	1	210.30	19.89	ppb	1.17	200	95.6	75 - 125	
52 Cr	72	1	203.30	12.90	ppb	1.09	200	95.5	75 - 125	
55 Mn	72	1	253.00	63.34	ppb	0.80	200	96.1	75 - 125	
59 Co	72	1	194.40	2.17	ppb	0.91	200	96.2	75 - 125	
60 Ni	72	1	208.90	6.91	ppb	1.30	200	101.0	75 - 125	
63 Cu	72	1	193.90	6.32	ppb	1.02	200	94.0	75 - 125	
66 Zn	72	1	214.40	24.10	ppb	0.63	200	95.7	75 - 125	
75 As	72	1	207.10	5.00	ppb	0.76	200	101.0	75 - 125	
78 Se	72	1	204.60	1.34	ppb	0.49	200	101.6	75 - 125	
95 Mo	72	1	205.70	1.39	ppb	0.48	200	102.1	75 - 125	
107 Ag	115	1	50.19	0.05	ppb	1.09	50	100.3	75 - 125	
111 Cd	115	1	201.10	0.20	ppb	0.43	200	100.5	75 - 125	
118 Sn	115	1	199.10	0.49	ppb	1.11	200	99.3	75 - 125	
121 Sb	115	1	202.30	0.03	ppb	1.02	200	101.1	75 - 125	
137 Ba	115	1	222.90	10.93	ppb	0.45	200	105.7	75 - 125	
205 Tl	165	1	194.50	0.22	ppb	0.75	200	97.1	75 - 125	
208 Pb	165	1	200.10	8.97	ppb	0.48	200	95.8	75 - 125	
232 Th	165	1	4.54	4.55	ppb	0.25	200	2.2	75 - 125	
238 U	165	1	191.20	1.53	ppb	1.00	200	94.9	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	493062	1.02	534602	92.2	30 - 120	
45 Sc	1	2652641	0.50	2551677	104.0	30 - 120	
72 Ge	1	1642853	0.32	1553005	105.8	30 - 120	
115 In	1	4425864	0.67	4260602	103.9	30 - 120	
165 Ho	1	8937534	1.20	8806612	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\105_MS.D\105_MS.D#
Date Acquired:	Nov 8 2011 11:56 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-1-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	3103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	44.48	0.44	ppb	3.61	40	110.0	50 - 150	
51 V	72	1	63.43	19.89	ppb	1.94	40	105.9	50 - 150	
52 Cr	72	1	55.03	12.90	ppb	1.30	40	104.0	50 - 150	
55 Mn	72	1	111.10	63.34	ppb	1.54	40	107.5	50 - 150	
59 Co	72	1	44.83	2.17	ppb	2.50	40	106.3	50 - 150	
60 Ni	72	1	48.24	6.91	ppb	2.22	40	102.8	50 - 150	
63 Cu	72	1	45.79	6.32	ppb	1.90	40	98.9	50 - 150	
66 Zn	72	1	66.49	24.10	ppb	0.99	40	103.7	50 - 150	
75 As	72	1	47.26	5.00	ppb	0.78	40	105.0	50 - 150	
78 Se	72	1	44.15	1.34	ppb	4.35	40	106.8	50 - 150	
95 Mo	72	1	40.83	1.39	ppb	0.91	40	98.6	50 - 150	
107 Ag	115	1	14.82	0.05	ppb	0.65	40	37.0	50 - 150	
111 Cd	115	1	41.74	0.20	ppb	0.52	40	103.8	50 - 150	
118 Sn	115	1	37.61	0.49	ppb	0.76	40	92.9	50 - 150	
121 Sb	115	1	8.85	0.03	ppb	1.13	40	22.1	50 - 150	
137 Ba	115	1	54.00	10.93	ppb	1.45	40	106.0	50 - 150	
205 Tl	165	1	42.61	0.22	ppb	2.37	40	105.9	50 - 150	
208 Pb	165	1	50.49	8.97	ppb	0.79	40	103.1	50 - 150	
232 Th	165	1	46.65	4.55	ppb	0.68	40	104.7	50 - 150	
238 U	165	1	43.31	1.53	ppb	1.69	40	104.3	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	487678	2.13	534602	91.2	30 - 120	
45 Sc	1	2532394	1.01	2551677	99.2	30 - 120	
72 Ge	1	1593066	0.87	1553005	102.6	30 - 120	
115 In	1	4359529	0.29	4260602	102.3	30 - 120	
165 Ho	1	8625710	1.18	8806612	97.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\106_MSD.D\106_MSD.D#
Date Acquired: Nov 8 2011 11:59 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-1-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\105_MS.D\105_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	42.69	ppb	1.40	44.48	4.11	20	
51	V	72	1	59.19	ppb	1.68	63.43	6.92	20	
52	Cr	72	1	51.98	ppb	1.85	55.03	5.70	20	
55	Mn	72	1	99.00	ppb	0.14	111.10	11.52	20	
59	Co	72	1	41.88	ppb	1.27	44.83	6.80	20	
60	Ni	72	1	45.60	ppb	1.09	48.24	5.63	20	
63	Cu	72	1	43.70	ppb	1.64	45.79	4.67	20	
66	Zn	72	1	62.28	ppb	0.73	66.49	6.54	20	
75	As	72	1	44.34	ppb	0.15	47.26	6.38	20	
78	Se	72	1	42.06	ppb	0.96	44.15	4.85	20	
95	Mo	72	1	38.11	ppb	1.22	40.83	6.89	20	
107	Ag	115	1	15.11	ppb	1.41	14.82	1.94	20	
111	Cd	115	1	40.18	ppb	0.97	41.74	3.81	20	
118	Sn	115	1	35.46	ppb	1.63	37.61	5.88	20	
121	Sb	115	1	7.61	ppb	1.18	8.85	15.03	20	
137	Ba	115	1	52.65	ppb	1.31	54.00	2.53	20	
205	Tl	165	1	40.05	ppb	0.43	42.61	6.19	20	
208	Pb	165	1	47.92	ppb	0.66	50.49	5.22	20	
232	Th	165	1	43.90	ppb	1.22	46.65	6.07	20	
238	U	165	1	40.89	ppb	0.48	43.31	5.75	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	488809	0.67	534602	91.4	30 - 120	
45	Sc	1	2595656	0.95	2551677	101.7	30 - 120	
72	Ge	1	1635754	0.42	1553005	105.3	30 - 120	
115	In	1	4405657	1.09	4260602	103.4	30 - 120	
165	Ho	1	8858417	0.98	8806612	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\107SMPL.D\107SMPL.D#
Date Acquired:	Nov 9 2011 12:02 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-2-c
Misc Info:	
Vial Number:	3105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.08	0.08	ppb	18.62	3600	
51	V	72	1	5.21	5.21	ppb	2.04	3600	
52	Cr	72	1	3.15	3.15	ppb	1.21	3600	
55	Mn	72	1	20.11	20.11	ppb	1.58	18000	
59	Co	72	1	0.72	0.72	ppb	1.84	3600	
60	Ni	72	1	1.70	1.70	ppb	2.47	3600	
63	Cu	72	1	0.86	0.86	ppb	4.58	3600	
66	Zn	72	1	4.80	4.80	ppb	2.03	3600	
75	As	72	1	1.82	1.82	ppb	1.91	3600	
78	Se	72	1	0.35	0.35	ppb	57.32	3600	
95	Mo	72	1	0.22	0.22	ppb	3.62	3600	
107	Ag	115	1	0.01	0.01	ppb	24.73	3600	
111	Cd	115	1	0.04	0.04	ppb	27.54	3600	
118	Sn	115	1	0.11	0.11	ppb	11.35	3600	
121	Sb	115	1	0.03	0.03	ppb	6.31	3600	
137	Ba	115	1	2.51	2.51	ppb	0.98	3600	
205	Tl	165	1	0.07	0.07	ppb	4.97	3600	
208	Pb	165	1	2.13	2.13	ppb	3.00	3600	
232	Th	165	1	2.74	2.74	ppb	2.59	1000	
238	U	165	1	0.59	0.59	ppb	1.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	490910	0.42	534602	91.8	30 - 120	
45	Sc	1	2640565	1.31	2551677	103.5	30 - 120	
72	Ge	1	1661576	0.68	1553005	107.0	30 - 120	
115	In	1	4545744	0.17	4260602	106.7	30 - 120	
165	Ho	1	8975960	1.44	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\108SMPL.D\108SMPL.D#
Date Acquired:	Nov 9 2011 12:04 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-3-c
Misc Info:	
Vial Number:	3106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.05	0.05	ppb	14.23	3600	
51	V	72	1	5.27	5.27	ppb	0.88	3600	
52	Cr	72	1	2.32	2.32	ppb	0.18	3600	
55	Mn	72	1	10.30	10.30	ppb	0.92	18000	
59	Co	72	1	0.40	0.40	ppb	1.25	3600	
60	Ni	72	1	0.98	0.98	ppb	5.66	3600	
63	Cu	72	1	1.03	1.03	ppb	2.63	3600	
66	Zn	72	1	3.86	3.86	ppb	1.08	3600	
75	As	72	1	2.09	2.09	ppb	1.80	3600	
78	Se	72	1	0.36	0.36	ppb	45.55	3600	
95	Mo	72	1	0.15	0.15	ppb	4.75	3600	
107	Ag	115	1	0.01	0.01	ppb	6.97	3600	
111	Cd	115	1	0.03	0.03	ppb	8.77	3600	
118	Sn	115	1	0.11	0.11	ppb	11.83	3600	
121	Sb	115	1	0.03	0.03	ppb	9.08	3600	
137	Ba	115	1	1.98	1.98	ppb	1.21	3600	
205	Tl	165	1	0.04	0.04	ppb	4.20	3600	
208	Pb	165	1	1.87	1.87	ppb	3.10	3600	
232	Th	165	1	1.28	1.28	ppb	4.01	1000	
238	U	165	1	0.26	0.26	ppb	2.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489075	0.11	534602	91.5	30 - 120	
45	Sc	1	2656948	0.54	2551677	104.1	30 - 120	
72	Ge	1	1652907	0.17	1553005	106.4	30 - 120	
115	In	1	4526740	0.27	4260602	106.2	30 - 120	
165	Ho	1	8919034	2.28	8806612	101.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\109SMPL.D\109SMPL.D#
Date Acquired:	Nov 9 2011 12:07 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-4-c
Misc Info:	
Vial Number:	3107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.05	0.05	ppb	46.83	3600	
51	V	72	1	3.39	3.39	ppb	1.58	3600	
52	Cr	72	1	2.11	2.11	ppb	0.67	3600	
55	Mn	72	1	23.05	23.05	ppb	0.10	18000	
59	Co	72	1	0.83	0.83	ppb	1.60	3600	
60	Ni	72	1	1.31	1.31	ppb	3.59	3600	
63	Cu	72	1	0.92	0.92	ppb	4.99	3600	
66	Zn	72	1	4.64	4.64	ppb	1.55	3600	
75	As	72	1	1.29	1.29	ppb	3.83	3600	
78	Se	72	1	0.34	0.34	ppb	33.37	3600	
95	Mo	72	1	0.18	0.18	ppb	6.88	3600	
107	Ag	115	1	0.01	0.01	ppb	33.21	3600	
111	Cd	115	1	0.04	0.04	ppb	17.24	3600	
118	Sn	115	1	0.16	0.16	ppb	4.29	3600	
121	Sb	115	1	0.02	0.02	ppb	10.43	3600	
137	Ba	115	1	2.79	2.79	ppb	3.29	3600	
205	Tl	165	1	0.06	0.06	ppb	4.59	3600	
208	Pb	165	1	1.72	1.72	ppb	1.12	3600	
232	Th	165	1	1.07	1.07	ppb	1.21	1000	
238	U	165	1	0.26	0.26	ppb	3.40	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496580	0.68	534602	92.9	30 - 120	
45	Sc	1	2684954	1.25	2551677	105.2	30 - 120	
72	Ge	1	1670437	1.35	1553005	107.6	30 - 120	
115	In	1	4498627	0.70	4260602	105.6	30 - 120	
165	Ho	1	9028721	1.24	8806612	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\110_CCV.D\110_CCV.D#
Date Acquired: Nov 9 2011 12:10 am
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.75	ppb	2.31	50	105.5	90 - 110	
51	V	72	1	50.58	ppb	0.99	50	101.2	90 - 110	
52	Cr	72	1	50.23	ppb	0.72	50	100.5	90 - 110	
55	Mn	72	1	50.72	ppb	0.52	50	101.4	90 - 110	
59	Co	72	1	51.33	ppb	0.26	50	102.7	90 - 110	
60	Ni	72	1	50.03	ppb	0.51	50	100.1	90 - 110	
63	Cu	72	1	50.03	ppb	0.52	50	100.1	90 - 110	
66	Zn	72	1	49.31	ppb	0.72	50	98.6	90 - 110	
75	As	72	1	50.94	ppb	0.63	50	101.9	90 - 110	
78	Se	72	1	50.92	ppb	3.76	50	101.8	90 - 110	
95	Mo	72	1	50.36	ppb	0.31	50	100.7	90 - 110	
107	Ag	115	1	51.32	ppb	1.37	50	102.6	90 - 110	
111	Cd	115	1	50.13	ppb	0.56	50	100.3	90 - 110	
118	Sn	115	1	48.51	ppb	0.64	50	97.0	90 - 110	
121	Sb	115	1	49.83	ppb	1.16	50	99.7	90 - 110	
137	Ba	115	1	51.75	ppb	1.67	50	103.5	90 - 110	
205	Tl	165	1	50.50	ppb	0.51	50	101.0	90 - 110	
208	Pb	165	1	48.76	ppb	1.35	50	97.5	90 - 110	
232	Th	165	1	49.43	ppb	1.75	50	98.9	90 - 110	
238	U	165	1	47.95	ppb	0.70	50	95.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496185	1.73	534602	92.8	30 - 120	
45	Sc	1	2677370	1.43	2551677	104.9	30 - 120	
72	Ge	1	1673249	0.17	1553005	107.7	30 - 120	
115	In	1	4534905	0.69	4260602	106.4	30 - 120	
165	Ho	1	9005990	1.11	8806612	102.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\111_CCB.D\111_CCB.D#
Date Acquired:	Nov 9 2011 12:13 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.004	ppb	0.00	1.00	
51	V	72	1	0.014	ppb	85.29	1.00	
52	Cr	72	1	0.035	ppb	191.70	1.00	
55	Mn	72	1	0.041	ppb	40.10	1.00	
59	Co	72	1	0.009	ppb	34.11	1.00	
60	Ni	72	1	-0.014	ppb	38.12	1.00	
63	Cu	72	1	-0.001	ppb	1051.40	1.00	
66	Zn	72	1	-0.002	ppb	428.30	1.00	
75	As	72	1	0.014	ppb	70.79	1.00	
78	Se	72	1	0.400	ppb	97.37	1.00	
95	Mo	72	1	0.016	ppb	47.38	1.00	
107	Ag	115	1	0.009	ppb	6.40	1.00	
111	Cd	115	1	0.003	ppb	272.14	1.00	
118	Sn	115	1	0.015	ppb	45.08	1.00	
121	Sb	115	1	0.022	ppb	18.36	1.00	
137	Ba	115	1	0.027	ppb	43.88	1.00	
205	Tl	165	1	0.026	ppb	12.21	1.00	
208	Pb	165	1	0.012	ppb	32.76	1.00	
232	Th	165	1	0.044	ppb	25.95	1.00	
238	U	165	1	0.013	ppb	20.91	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457249	14.58	534602	85.5	30 - 120	
45	Sc	1	2386957	18.28	2551677	93.5	30 - 120	
72	Ge	1	1536659	13.87	1553005	98.9	30 - 120	
115	In	1	4036575	19.07	4260602	94.7	30 - 120	
165	Ho	1	7918174	18.83	8806612	89.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\112WASH.D\112WASH.D#
Date Acquired: Nov 9 2011 12:16 am
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.206 ppb	9.95	1.30	
51	V	72	1	5.013 ppb	2.22	6.50	
52	Cr	72	1	2.190 ppb	2.12	2.60	
55	Mn	72	1	1.260 ppb	1.27	1.30	
59	Co	72	1	1.100 ppb	1.84	1.30	
60	Ni	72	1	2.273 ppb	4.14	2.60	
63	Cu	72	1	2.209 ppb	0.77	2.60	
66	Zn	72	1	10.540 ppb	1.25	13.00	
75	As	72	1	5.382 ppb	1.06	6.50	
78	Se	72	1	6.090 ppb	3.99	6.50	
95	Mo	72	1	2.172 ppb	1.87	2.60	
107	Ag	115	1	5.170 ppb	1.56	6.50	
111	Cd	115	1	1.072 ppb	1.39	1.30	
118	Sn	115	1	9.919 ppb	1.79	13.00	
121	Sb	115	1	2.109 ppb	0.49	2.60	
137	Ba	115	1	1.154 ppb	2.10	1.30	
205	Tl	165	1	1.112 ppb	1.70	1.30	
208	Pb	165	1	1.087 ppb	2.56	1.30	
232	Th	165	1	2.060 ppb	1.42	2.60	
238	U	165	1	1.046 ppb	0.65	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501829	1.55	534602	93.9	30 - 120	
45	Sc	1	2686559	1.23	2551677	105.3	30 - 120	
72	Ge	1	1666577	0.67	1553005	107.3	30 - 120	
115	In	1	4543393	1.35	4260602	106.6	30 - 120	
165	Ho	1	8957957	1.52	8806612	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\113SMPL.D\113SMPL.D#
Date Acquired: Nov 9 2011 12:19 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-5-a
Misc Info:
Vial Number: 3108
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.08	0.08	ppb	125.53	3600	
51	V	72	1	6.05	6.05	ppb	0.98	3600	
52	Cr	72	1	3.29	3.29	ppb	0.35	3600	
55	Mn	72	1	19.25	19.25	ppb	0.92	18000	
59	Co	72	1	0.50	0.50	ppb	2.43	3600	
60	Ni	72	1	1.29	1.29	ppb	0.97	3600	
63	Cu	72	1	0.79	0.79	ppb	2.49	3600	
66	Zn	72	1	4.12	4.12	ppb	1.70	3600	
75	As	72	1	2.00	2.00	ppb	3.18	3600	
78	Se	72	1	0.52	0.52	ppb	28.68	3600	
95	Mo	72	1	0.22	0.22	ppb	7.03	3600	
107	Ag	115	1	0.01	0.01	ppb	29.92	3600	
111	Cd	115	1	0.04	0.04	ppb	6.08	3600	
118	Sn	115	1	0.10	0.10	ppb	13.84	3600	
121	Sb	115	1	0.03	0.03	ppb	22.34	3600	
137	Ba	115	1	2.45	2.45	ppb	2.87	3600	
205	Tl	165	1	0.06	0.06	ppb	2.80	3600	
208	Pb	165	1	2.77	2.77	ppb	0.73	3600	
232	Th	165	1	3.65	3.65	ppb	0.52	1000	
238	U	165	1	0.63	0.63	ppb	1.00	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497827	0.72	534602	93.1	30 - 120	
45	Sc	1	2654711	0.40	2551677	104.0	30 - 120	
72	Ge	1	1653534	0.51	1553005	106.5	30 - 120	
115	In	1	4512745	0.29	4260602	105.9	30 - 120	
165	Ho	1	8904111	0.41	8806612	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\114SMPL.D\114SMPL.D#
Date Acquired:	Nov 9 2011 12:22 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-6-c
Misc Info:	
Vial Number:	3109
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	86.89	3600	
51	V	72	1	2.82	2.82	ppb	2.26	3600	
52	Cr	72	1	1.81	1.81	ppb	1.35	3600	
55	Mn	72	1	16.16	16.16	ppb	0.87	18000	
59	Co	72	1	0.27	0.27	ppb	3.71	3600	
60	Ni	72	1	0.75	0.75	ppb	0.30	3600	
63	Cu	72	1	0.74	0.74	ppb	3.54	3600	
66	Zn	72	1	7.93	7.93	ppb	0.37	3600	
75	As	72	1	1.12	1.12	ppb	1.74	3600	
78	Se	72	1	0.64	0.64	ppb	6.69	3600	
95	Mo	72	1	0.14	0.14	ppb	11.88	3600	
107	Ag	115	1	0.01	0.01	ppb	3.64	3600	
111	Cd	115	1	0.03	0.03	ppb	29.20	3600	
118	Sn	115	1	0.09	0.09	ppb	2.74	3600	
121	Sb	115	1	0.02	0.02	ppb	9.49	3600	
137	Ba	115	1	1.91	1.91	ppb	2.88	3600	
205	Tl	165	1	0.05	0.05	ppb	3.61	3600	
208	Pb	165	1	1.69	1.69	ppb	2.81	3600	
232	Th	165	1	1.30	1.30	ppb	1.57	1000	
238	U	165	1	0.29	0.29	ppb	2.00	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497654	0.88	534602	93.1	30 - 120	
45	Sc	1	2635704	1.24	2551677	103.3	30 - 120	
72	Ge	1	1652821	1.15	1553005	106.4	30 - 120	
115	In	1	4505564	0.73	4260602	105.7	30 - 120	
165	Ho	1	8975754	1.03	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\115SMPL.D\115SMPL.D#
Date Acquired: Nov 9 2011 12:25 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-7-c
Misc Info:
Vial Number: 3110
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.09	0.09	ppb	79.56	3600	
51	V	72	1	3.14	3.14	ppb	1.58	3600	
52	Cr	72	1	2.46	2.46	ppb	1.22	3600	
55	Mn	72	1	13.11	13.11	ppb	2.55	18000	
59	Co	72	1	0.35	0.35	ppb	1.24	3600	
60	Ni	72	1	0.98	0.98	ppb	4.59	3600	
63	Cu	72	1	0.84	0.84	ppb	0.74	3600	
66	Zn	72	1	4.14	4.14	ppb	1.61	3600	
75	As	72	1	1.08	1.08	ppb	1.46	3600	
78	Se	72	1	0.32	0.32	ppb	90.48	3600	
95	Mo	72	1	0.22	0.22	ppb	7.05	3600	
107	Ag	115	1	0.01	0.01	ppb	19.52	3600	
111	Cd	115	1	0.06	0.06	ppb	0.51	3600	
118	Sn	115	1	0.05	0.05	ppb	6.35	3600	
121	Sb	115	1	0.02	0.02	ppb	13.75	3600	
137	Ba	115	1	2.02	2.02	ppb	0.55	3600	
205	Tl	165	1	0.08	0.08	ppb	1.38	3600	
208	Pb	165	1	1.93	1.93	ppb	1.32	3600	
232	Th	165	1	1.03	1.03	ppb	2.43	1000	
238	U	165	1	0.29	0.29	ppb	3.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497471	0.61	534602	93.1	30 - 120	
45	Sc	1	2661261	0.72	2551677	104.3	30 - 120	
72	Ge	1	1646855	0.70	1553005	106.0	30 - 120	
115	In	1	4516267	1.00	4260602	106.0	30 - 120	
165	Ho	1	8957874	0.76	8806612	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\116SMPL.D\116SMPL.D#
Date Acquired:	Nov 9 2011 12:28 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-8-a
Misc Info:	
Vial Number:	3111
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.09	0.09	ppb	26.52	3600	
51	V	72	1	4.82	4.82	ppb	1.29	3600	
52	Cr	72	1	2.75	2.75	ppb	2.58	3600	
55	Mn	72	1	25.51	25.51	ppb	0.29	18000	
59	Co	72	1	0.61	0.61	ppb	0.74	3600	
60	Ni	72	1	1.49	1.49	ppb	1.36	3600	
63	Cu	72	1	0.81	0.81	ppb	1.63	3600	
66	Zn	72	1	4.48	4.48	ppb	1.93	3600	
75	As	72	1	1.58	1.58	ppb	1.71	3600	
78	Se	72	1	0.59	0.59	ppb	26.38	3600	
95	Mo	72	1	0.19	0.19	ppb	1.45	3600	
107	Ag	115	1	0.01	0.01	ppb	15.38	3600	
111	Cd	115	1	0.05	0.05	ppb	17.18	3600	
118	Sn	115	1	0.09	0.09	ppb	13.53	3600	
121	Sb	115	1	0.02	0.02	ppb	5.08	3600	
137	Ba	115	1	2.52	2.52	ppb	2.33	3600	
205	Tl	165	1	0.06	0.06	ppb	2.45	3600	
208	Pb	165	1	2.00	2.00	ppb	0.45	3600	
232	Th	165	1	1.16	1.16	ppb	0.80	1000	
238	U	165	1	0.35	0.35	ppb	1.52	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497015	2.08	534602	93.0	30 - 120	
45	Sc	1	2636232	0.36	2551677	103.3	30 - 120	
72	Ge	1	1662600	0.54	1553005	107.1	30 - 120	
115	In	1	4522248	0.79	4260602	106.1	30 - 120	
165	Ho	1	8904540	0.07	8806612	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\117SMPL.D\117SMPL.D#
Date Acquired:	Nov 9 2011 12:31 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-9-c
Misc Info:	
Vial Number:	3112
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.09	0.09	ppb	58.45	3600	
51	V	72	1	4.89	4.89	ppb	1.76	3600	
52	Cr	72	1	2.76	2.76	ppb	2.10	3600	
55	Mn	72	1	16.98	16.98	ppb	0.86	18000	
59	Co	72	1	0.46	0.46	ppb	1.68	3600	
60	Ni	72	1	1.17	1.17	ppb	5.29	3600	
63	Cu	72	1	0.67	0.67	ppb	4.89	3600	
66	Zn	72	1	3.52	3.52	ppb	0.46	3600	
75	As	72	1	1.61	1.61	ppb	3.93	3600	
78	Se	72	1	0.41	0.41	ppb	24.62	3600	
95	Mo	72	1	0.15	0.15	ppb	16.83	3600	
107	Ag	115	1	0.01	0.01	ppb	34.02	3600	
111	Cd	115	1	0.03	0.03	ppb	15.48	3600	
118	Sn	115	1	0.05	0.05	ppb	11.43	3600	
121	Sb	115	1	0.02	0.02	ppb	6.93	3600	
137	Ba	115	1	2.18	2.18	ppb	2.72	3600	
205	Tl	165	1	0.04	0.04	ppb	4.79	3600	
208	Pb	165	1	2.05	2.05	ppb	0.88	3600	
232	Th	165	1	1.48	1.48	ppb	1.49	1000	
238	U	165	1	0.39	0.39	ppb	1.54	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	495725	0.97	534602	92.7	30 - 120	
45	Sc	1	2618512	1.44	2551677	102.6	30 - 120	
72	Ge	1	1640701	0.62	1553005	105.6	30 - 120	
115	In	1	4505438	1.12	4260602	105.7	30 - 120	
165	Ho	1	8956596	0.75	8806612	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\118SMPL.D\118SMPL.D#
Date Acquired:	Nov 9 2011 12:34 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-10-c
Misc Info:	
Vial Number:	3201
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.11	0.11	ppb	23.29	3600	
51	V	72	1	4.29	4.29	ppb	1.67	3600	
52	Cr	72	1	2.35	2.35	ppb	3.39	3600	
55	Mn	72	1	19.48	19.48	ppb	0.76	18000	
59	Co	72	1	0.50	0.50	ppb	3.34	3600	
60	Ni	72	1	1.26	1.26	ppb	1.48	3600	
63	Cu	72	1	0.76	0.76	ppb	3.72	3600	
66	Zn	72	1	4.26	4.26	ppb	1.63	3600	
75	As	72	1	1.52	1.52	ppb	0.31	3600	
78	Se	72	1	0.55	0.55	ppb	45.94	3600	
95	Mo	72	1	0.15	0.15	ppb	1.91	3600	
107	Ag	115	1	0.01	0.01	ppb	23.84	3600	
111	Cd	115	1	0.04	0.04	ppb	18.09	3600	
118	Sn	115	1	0.04	0.04	ppb	7.67	3600	
121	Sb	115	1	0.02	0.02	ppb	10.12	3600	
137	Ba	115	1	2.05	2.05	ppb	1.52	3600	
205	Tl	165	1	0.05	0.05	ppb	5.78	3600	
208	Pb	165	1	1.51	1.51	ppb	1.06	3600	
232	Th	165	1	1.00	1.00	ppb	1.29	1000	
238	U	165	1	0.33	0.33	ppb	0.66	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	494841	0.74	534602	92.6	30 - 120	
45	Sc	1	2631508	0.66	2551677	103.1	30 - 120	
72	Ge	1	1643279	1.42	1553005	105.8	30 - 120	
115	In	1	4502726	0.79	4260602	105.7	30 - 120	
165	Ho	1	8881979	1.32	8806612	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\119SMPL.D\119SMPL.D#		
Date Acquired:	Nov 9 2011 12:37 am		
Acq. Method:	NormISIS.M	QC Summary:	
Operator:	LRD	Analytes:	Pass
Sample Name:	280-22000-a-11-c	ISTD:	Pass
Misc Info:			
Vial Number:	3202		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 07:04 pm		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.10	0.10	ppb	13.07	3600	
51	V	72	1	5.92	5.92	ppb	0.64	3600	
52	Cr	72	1	3.28	3.28	ppb	1.61	3600	
55	Mn	72	1	17.06	17.06	ppb	1.47	18000	
59	Co	72	1	0.48	0.48	ppb	2.38	3600	
60	Ni	72	1	1.53	1.53	ppb	1.27	3600	
63	Cu	72	1	0.82	0.82	ppb	3.59	3600	
66	Zn	72	1	4.72	4.72	ppb	1.13	3600	
75	As	72	1	2.04	2.04	ppb	3.63	3600	
78	Se	72	1	0.53	0.53	ppb	60.16	3600	
95	Mo	72	1	0.17	0.17	ppb	5.92	3600	
107	Ag	115	1	0.01	0.01	ppb	8.78	3600	
111	Cd	115	1	0.03	0.03	ppb	15.76	3600	
118	Sn	115	1	0.05	0.05	ppb	9.15	3600	
121	Sb	115	1	0.03	0.03	ppb	12.84	3600	
137	Ba	115	1	2.28	2.28	ppb	3.37	3600	
205	Tl	165	1	0.05	0.05	ppb	3.53	3600	
208	Pb	165	1	2.62	2.62	ppb	2.69	3600	
232	Th	165	1	1.95	1.95	ppb	0.72	1000	
238	U	165	1	0.47	0.47	ppb	0.79	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489702	0.13	534602	91.6	30 - 120	
45	Sc	1	2589482	0.91	2551677	101.5	30 - 120	
72	Ge	1	1653343	0.24	1553005	106.5	30 - 120	
115	In	1	4500992	1.68	4260602	105.6	30 - 120	
165	Ho	1	8866161	1.96	8806612	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\120SMPL.D\120SMPL.D#
Date Acquired:	Nov 9 2011 12:40 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-12-e
Misc Info:	
Vial Number:	3203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.08	0.08	ppb	48.87	3600	
51	V	72	1	7.74	7.74	ppb	0.63	3600	
52	Cr	72	1	3.77	3.77	ppb	0.35	3600	
55	Mn	72	1	16.49	16.49	ppb	1.75	18000	
59	Co	72	1	1.00	1.00	ppb	2.45	3600	
60	Ni	72	1	1.96	1.96	ppb	4.09	3600	
63	Cu	72	1	0.87	0.87	ppb	1.46	3600	
66	Zn	72	1	4.74	4.74	ppb	0.96	3600	
75	As	72	1	2.42	2.42	ppb	3.73	3600	
78	Se	72	1	0.28	0.28	ppb	63.13	3600	
95	Mo	72	1	0.23	0.23	ppb	5.00	3600	
107	Ag	115	1	0.01	0.01	ppb	21.72	3600	
111	Cd	115	1	0.03	0.03	ppb	13.52	3600	
118	Sn	115	1	0.05	0.05	ppb	24.93	3600	
121	Sb	115	1	0.02	0.02	ppb	12.95	3600	
137	Ba	115	1	5.18	5.18	ppb	2.45	3600	
205	Tl	165	1	0.05	0.05	ppb	2.51	3600	
208	Pb	165	1	2.25	2.25	ppb	1.67	3600	
232	Th	165	1	1.60	1.60	ppb	2.29	1000	
238	U	165	1	0.35	0.35	ppb	1.53	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492297	2.15	534602	92.1	30 - 120	
45	Sc	1	2636811	0.87	2551677	103.3	30 - 120	
72	Ge	1	1633150	0.81	1553005	105.2	30 - 120	
115	In	1	4518473	1.89	4260602	106.1	30 - 120	
165	Ho	1	8853913	0.78	8806612	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\121SMPL.D\121SMPL.D#
Date Acquired: Nov 9 2011 12:42 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-13-a
Misc Info:
Vial Number: 3204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.10	0.10	ppb	22.88	3600	
51	V	72	1	4.99	4.99	ppb	2.02	3600	
52	Cr	72	1	2.09	2.09	ppb	1.37	3600	
55	Mn	72	1	21.48	21.48	ppb	2.95	18000	
59	Co	72	1	0.38	0.38	ppb	2.81	3600	
60	Ni	72	1	0.97	0.97	ppb	6.19	3600	
63	Cu	72	1	0.60	0.60	ppb	2.10	3600	
66	Zn	72	1	4.34	4.34	ppb	1.16	3600	
75	As	72	1	1.90	1.90	ppb	3.68	3600	
78	Se	72	1	0.29	0.29	ppb	88.72	3600	
95	Mo	72	1	0.20	0.20	ppb	6.72	3600	
107	Ag	115	1	0.01	0.01	ppb	23.18	3600	
111	Cd	115	1	0.03	0.03	ppb	37.12	3600	
118	Sn	115	1	0.07	0.07	ppb	30.46	3600	
121	Sb	115	1	0.02	0.02	ppb	19.22	3600	
137	Ba	115	1	2.01	2.01	ppb	3.52	3600	
205	Tl	165	1	0.05	0.05	ppb	2.22	3600	
208	Pb	165	1	1.42	1.42	ppb	1.09	3600	
232	Th	165	1	1.43	1.43	ppb	1.18	1000	
238	U	165	1	0.31	0.31	ppb	1.74	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497376	1.11	534602	93.0	30 - 120	
45	Sc	1	2645868	1.51	2551677	103.7	30 - 120	
72	Ge	1	1633393	0.92	1553005	105.2	30 - 120	
115	In	1	4455632	1.45	4260602	104.6	30 - 120	
165	Ho	1	8836827	1.09	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\122_CCV.D\122_CCV.D#
Date Acquired: Nov 9 2011 12:45 am
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.07	ppb	2.43	50	106.1	90 - 110	
51	V	72	1	51.16	ppb	1.69	50	102.3	90 - 110	
52	Cr	72	1	50.38	ppb	1.55	50	100.8	90 - 110	
55	Mn	72	1	51.99	ppb	2.03	50	104.0	90 - 110	
59	Co	72	1	50.99	ppb	0.98	50	102.0	90 - 110	
60	Ni	72	1	50.17	ppb	1.17	50	100.3	90 - 110	
63	Cu	72	1	50.12	ppb	0.68	50	100.2	90 - 110	
66	Zn	72	1	50.13	ppb	1.66	50	100.3	90 - 110	
75	As	72	1	51.48	ppb	0.78	50	103.0	90 - 110	
78	Se	72	1	52.74	ppb	0.23	50	105.5	90 - 110	
95	Mo	72	1	50.69	ppb	2.98	50	101.4	90 - 110	
107	Ag	115	1	50.40	ppb	2.31	50	100.8	90 - 110	
111	Cd	115	1	49.66	ppb	0.51	50	99.3	90 - 110	
118	Sn	115	1	48.66	ppb	0.76	50	97.3	90 - 110	
121	Sb	115	1	49.60	ppb	0.93	50	99.2	90 - 110	
137	Ba	115	1	51.43	ppb	1.31	50	102.9	90 - 110	
205	Tl	165	1	50.52	ppb	0.69	50	101.0	90 - 110	
208	Pb	165	1	48.81	ppb	0.94	50	97.6	90 - 110	
232	Th	165	1	48.90	ppb	1.62	50	97.8	90 - 110	
238	U	165	1	48.45	ppb	1.59	50	96.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496942	1.12	534602	93.0	30 - 120	
45	Sc	1	2628711	1.73	2551677	103.0	30 - 120	
72	Ge	1	1617936	1.33	1553005	104.2	30 - 120	
115	In	1	4493756	1.04	4260602	105.5	30 - 120	
165	Ho	1	8910820	0.73	8806612	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\123_CCB.D\123_CCB.D#
Date Acquired:	Nov 9 2011 12:48 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	2617.10	1.00	
51	V	72	1	0.021	ppb	66.76	1.00	
52	Cr	72	1	-0.001	ppb	1225.40	1.00	
55	Mn	72	1	0.024	ppb	36.24	1.00	
59	Co	72	1	0.006	ppb	22.82	1.00	
60	Ni	72	1	-0.023	ppb	9.03	1.00	
63	Cu	72	1	-0.006	ppb	154.18	1.00	
66	Zn	72	1	-0.022	ppb	15.37	1.00	
75	As	72	1	0.012	ppb	43.85	1.00	
78	Se	72	1	0.254	ppb	113.86	1.00	
95	Mo	72	1	0.011	ppb	66.94	1.00	
107	Ag	115	1	0.009	ppb	13.65	1.00	
111	Cd	115	1	0.003	ppb	114.94	1.00	
118	Sn	115	1	0.003	ppb	316.17	1.00	
121	Sb	115	1	0.016	ppb	11.94	1.00	
137	Ba	115	1	0.016	ppb	22.61	1.00	
205	Tl	165	1	0.009	ppb	12.69	1.00	
208	Pb	165	1	0.006	ppb	17.77	1.00	
232	Th	165	1	0.031	ppb	9.59	1.00	
238	U	165	1	0.008	ppb	11.04	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497453	1.22	534602	93.1	30 - 120	
45	Sc	1	2666478	1.29	2551677	104.5	30 - 120	
72	Ge	1	1662412	0.98	1553005	107.0	30 - 120	
115	In	1	4480673	0.66	4260602	105.2	30 - 120	
165	Ho	1	8935519	1.38	8806612	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\124WASH.D\124WASH.D#
Date Acquired: Nov 9 2011 12:51 am
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.026 ppb	4.32	1.30	
51	V	72	1	5.033 ppb	1.85	6.50	
52	Cr	72	1	2.203 ppb	2.12	2.60	
55	Mn	72	1	1.248 ppb	2.58	1.30	
59	Co	72	1	1.093 ppb	1.48	1.30	
60	Ni	72	1	2.289 ppb	0.57	2.60	
63	Cu	72	1	2.164 ppb	3.32	2.60	
66	Zn	72	1	10.400 ppb	1.53	13.00	
75	As	72	1	5.401 ppb	1.23	6.50	
78	Se	72	1	6.064 ppb	14.34	6.50	
95	Mo	72	1	2.164 ppb	3.37	2.60	
107	Ag	115	1	5.016 ppb	1.86	6.50	
111	Cd	115	1	1.068 ppb	2.04	1.30	
118	Sn	115	1	9.967 ppb	1.36	13.00	
121	Sb	115	1	2.123 ppb	1.50	2.60	
137	Ba	115	1	1.174 ppb	1.36	1.30	
205	Tl	165	1	1.119 ppb	0.57	1.30	
208	Pb	165	1	1.083 ppb	1.07	1.30	
232	Th	165	1	2.091 ppb	0.63	2.60	
238	U	165	1	1.065 ppb	0.82	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497392	0.74	534602	93.0	30 - 120	
45	Sc	1	2666275	1.02	2551677	104.5	30 - 120	
72	Ge	1	1649020	1.93	1553005	106.2	30 - 120	
115	In	1	4536945	0.36	4260602	106.5	30 - 120	
165	Ho	1	8868872	0.62	8806612	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\125_BLK.D\125_BLK.D#
Date Acquired: Nov 9 2011 12:54 am
Operator: LRD
Sample Name: mb 280-93867/1-a
Misc Info: BLANK 93867 AFCEE4
Vial Number: 3205
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.004 ppb	333.49	2.00	
51 V	72	1	0.002 ppb	269.70	2.00	
52 Cr	72	1	0.082 ppb	7.83	2.00	
55 Mn	72	1	0.208 ppb	5.74	2.00	
59 Co	72	1	0.002 ppb	27.11	2.00	
60 Ni	72	1	-0.007 ppb	27.79	2.00	
63 Cu	72	1	0.032 ppb	13.22	2.00	
66 Zn	72	1	1.318 ppb	3.40	2.00	
75 As	72	1	0.004 ppb	64.51	2.00	
78 Se	72	1	0.510 ppb	28.59	2.00	
95 Mo	72	1	-0.003 ppb	155.78	2.00	
107 Ag	115	1	0.004 ppb	19.04	2.00	
111 Cd	115	1	0.002 ppb	181.81	2.00	
118 Sn	115	1	0.052 ppb	10.66	2.00	
121 Sb	115	1	0.006 ppb	55.94	2.00	
137 Ba	115	1	0.070 ppb	13.88	2.00	
205 Tl	165	1	0.003 ppb	20.42	2.00	
208 Pb	165	1	0.010 ppb	10.16	2.00	
232 Th	165	1	0.016 ppb	21.93	2.00	
238 U	165	1	0.003 ppb	8.72	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	511070	1.33	534602	95.6	30 - 120	
45 Sc	1	2718736	2.05	2551677	106.5	30 - 120	
72 Ge	1	1687091	2.17	1553005	108.6	30 - 120	
115 In	1	4608443	0.84	4260602	108.2	30 - 120	
165 Ho	1	9025307	1.37	8806612	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\126_LCS.D\126_LCS.D#
Date Acquired:	Nov 9 2011 12:57 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-93867/2-a
Misc Info:	LCS
Vial Number:	3206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	42.87	1.57	40	107.2	80 - 120	
51 V	72	1	41.86	1.14	40	104.7	80 - 120	
52 Cr	72	1	41.17	1.00	40	102.9	80 - 120	
55 Mn	72	1	40.86	0.43	40	102.2	80 - 120	
59 Co	72	1	41.63	0.48	40	104.1	80 - 120	
60 Ni	72	1	40.69	0.61	40	101.7	80 - 120	
63 Cu	72	1	40.00	0.80	40	100.0	80 - 120	
66 Zn	72	1	39.95	0.17	40	99.9	80 - 120	
75 As	72	1	40.51	0.50	40	101.3	80 - 120	
78 Se	72	1	41.11	0.98	40	102.8	80 - 120	
95 Mo	72	1	41.94	1.51	40	104.9	80 - 120	
107 Ag	115	1	41.62	3.31	40	104.1	80 - 120	
111 Cd	115	1	40.29	2.62	40	100.7	80 - 120	
118 Sn	115	1	40.25	2.78	40	100.6	80 - 120	
121 Sb	115	1	39.90	1.71	40	99.8	80 - 120	
137 Ba	115	1	42.81	1.48	40	107.0	80 - 120	
205 Tl	165	1	42.30	1.75	40	105.8	80 - 120	
208 Pb	165	1	40.99	1.35	40	102.5	80 - 120	
232 Th	165	1	40.81	0.65	40	102.0	80 - 120	
238 U	165	1	40.94	0.85	40	102.4	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	513669	1.13	534602	96.1	30 - 120	
45 Sc	1	2711954	1.60	2551677	106.3	30 - 120	
72 Ge	1	1689209	0.84	1553005	108.8	30 - 120	
115 In	1	4608163	2.26	4260602	108.2	30 - 120	
165 Ho	1	9036402	1.15	8806612	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Labratory Control Spike Duplicate Sample (LCSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\127LCSD.D\127LCSD.D#
Date Acquired:	Nov 9 2011 01:00 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcsd 280-93867/3-a
Misc Info:	LCSD
Vial Number:	3207
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\126_LCS.D\126_LCS.D#

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9 Be	6	1	43.18 ppb	3.80	42.87	0.72	2000	
51 V	72	1	41.28 ppb	0.51	41.86	1.40	2000	
52 Cr	72	1	41.05 ppb	0.61	41.17	0.29	2000	
55 Mn	72	1	41.49 ppb	2.08	40.86	1.53	2000	
59 Co	72	1	41.60 ppb	1.00	41.63	0.07	2000	
60 Ni	72	1	41.14 ppb	1.47	40.69	1.10	2000	
63 Cu	72	1	40.29 ppb	1.63	40.00	0.72	2000	
66 Zn	72	1	39.79 ppb	0.74	39.95	0.40	2000	
75 As	72	1	40.88 ppb	0.44	40.51	0.91	2000	
78 Se	72	1	42.14 ppb	1.74	41.11	2.47	2000	
95 Mo	72	1	41.86 ppb	1.04	41.94	0.19	2000	
107 Ag	115	1	42.24 ppb	1.50	41.62	1.48	2000	
111 Cd	115	1	40.24 ppb	0.57	40.29	0.12	2000	
118 Sn	115	1	40.21 ppb	0.90	40.25	0.10	2000	
121 Sb	115	1	40.05 ppb	0.31	39.90	0.38	2000	
137 Ba	115	1	42.35 ppb	0.41	42.81	1.08	2000	
205 Tl	165	1	42.67 ppb	0.29	42.30	0.87	2000	
208 Pb	165	1	41.06 ppb	0.42	40.99	0.17	2000	
232 Th	165	1	41.79 ppb	1.79	40.81	2.37	2000	
238 U	165	1	40.50 ppb	0.90	40.94	1.08	2000	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	506763	0.66	534602	94.8	30 - 120	
45 Sc	1	2694516	1.58	2551677	105.6	30 - 120	
72 Ge	1	1672175	1.37	1553005	107.7	30 - 120	
115 In	1	4585091	0.61	4260602	107.6	30 - 120	
165 Ho	1	9034486	0.46	8806612	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\128AREF.D\128AREF.D#
Date Acquired:	Nov 9 2011 01:03 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21945-a-20-c 20X
Misc Info:	
Vial Number:	3208
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	AllRef
Dilution Factor:	20.00
Autodil Factor:	Undiluted
Final Dil Factor:	20.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	128.64	6.43	ppb	4.20	3600	
51	V	72	1	1,503.60	75.18	ppb	1.35	3600	
52	Cr	72	1	916.40	45.82	ppb	1.38	3600	
55	Mn	72	1	717.80	35.89	ppb	1.06	18000	
59	Co	72	1	677.00	33.85	ppb	1.55	3600	
60	Ni	72	1	633.40	31.67	ppb	0.73	3600	
63	Cu	72	1	817.80	40.89	ppb	0.58	3600	
66	Zn	72	1	1,477.40	73.87	ppb	0.74	3600	
75	As	72	1	891.40	44.57	ppb	0.72	3600	
78	Se	72	1	576.20	28.81	ppb	1.70	3600	
95	Mo	72	1	355.40	17.77	ppb	0.62	3600	
107	Ag	115	1	196.64	9.83	ppb	0.17	3600	
111	Cd	115	1	88.76	4.44	ppb	1.61	3600	
118	Sn	115	1	0.53	0.03	ppb	35.52	3600	
121	Sb	115	1	956.60	47.83	ppb	0.75	3600	
137	Ba	115	1	1,155.80	57.79	ppb	0.48	3600	
205	Tl	165	1	812.60	40.63	ppb	0.97	3600	
208	Pb	165	1	346.40	17.32	ppb	1.24	3600	
232	Th	165	1	0.79	0.04	ppb	3.97	1000	
238	U	165	1	0.16	0.01	ppb	12.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	503333	1.02	534602	94.2	30 - 120	
45	Sc	1	2618749	1.24	2551677	102.6	30 - 120	
72	Ge	1	1656631	0.21	1553005	106.7	30 - 120	
115	In	1	4491477	0.43	4260602	105.4	30 - 120	
165	Ho	1	8970130	1.45	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\129SDIL.D\129SDIL.D#
Date Acquired: Nov 9 2011 01:06 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21945-a-20-c SD@100
Misc Info: SERIAL DILUTION
Vial Number: 3209
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SDIL
Dilution Factor: 20.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\128AREF.D\128AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	1.30	ppb	10.19	1.29	100.9	90 - 110	
51	V	72	1	14.63	ppb	1.47	15.04	97.3	90 - 110	
52	Cr	72	1	8.76	ppb	1.15	9.16	95.6	90 - 110	
55	Mn	72	1	7.17	ppb	1.91	7.18	99.8	90 - 110	
59	Co	72	1	6.59	ppb	1.65	6.77	97.4	90 - 110	
60	Ni	72	1	6.34	ppb	1.91	6.33	100.1	90 - 110	
63	Cu	72	1	8.13	ppb	0.51	8.18	99.5	90 - 110	
66	Zn	72	1	14.74	ppb	0.64	14.77	99.8	90 - 110	
75	As	72	1	8.93	ppb	1.50	8.91	100.2	90 - 110	
78	Se	72	1	5.93	ppb	7.33	5.76	103.0	90 - 110	
95	Mo	72	1	3.51	ppb	2.50	3.55	98.8	90 - 110	
107	Ag	115	1	1.91	ppb	2.96	1.97	96.9	90 - 110	
111	Cd	115	1	0.88	ppb	4.45	0.89	99.6	90 - 110	
118	Sn	115	1	0.05	ppb	17.71	0.01	877.3	90 - 110	
121	Sb	115	1	9.47	ppb	1.30	9.57	99.0	90 - 110	
137	Ba	115	1	11.36	ppb	2.75	11.56	98.3	90 - 110	
205	Tl	165	1	8.03	ppb	0.49	8.13	98.8	90 - 110	
208	Pb	165	1	3.47	ppb	0.84	3.46	100.2	90 - 110	
232	Th	165	1	0.01	ppb	11.81	0.01	184.4	90 - 110	
238	U	165	1	0.00	ppb	9.31	0.00	184.3	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	499335	1.14	534602	93.4	30 - 120	
45	Sc	1	2645613	2.17	2551677	103.7	30 - 120	
72	Ge	1	1628922	0.76	1553005	104.9	30 - 120	
115	In	1	4508159	1.43	4260602	105.8	30 - 120	
165	Ho	1	8849027	0.53	8806612	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\130PDS.D\130PDS.D#
Date Acquired:	Nov 9 2011 01:09 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21945-a-20-c PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	PDS
Prep Dil. Factor:	20.00
Autodil Factor:	Undiluted
Final Dil Factor:	20.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	218.90	6.43	ppb	0.76	200	106.0	75 - 125	
51 V	72	1	264.30	75.18	ppb	0.20	200	96.0	75 - 125	
52 Cr	72	1	234.20	45.82	ppb	1.28	200	95.3	75 - 125	
55 Mn	72	1	232.70	35.89	ppb	0.98	200	98.6	75 - 125	
59 Co	72	1	224.20	33.85	ppb	1.19	200	95.9	75 - 125	
60 Ni	72	1	235.60	31.67	ppb	1.03	200	101.7	75 - 125	
63 Cu	72	1	228.50	40.89	ppb	1.54	200	94.9	75 - 125	
66 Zn	72	1	269.20	73.87	ppb	1.87	200	98.3	75 - 125	
75 As	72	1	246.60	44.57	ppb	1.46	200	100.8	75 - 125	
78 Se	72	1	231.20	28.81	ppb	1.83	200	101.0	75 - 125	
95 Mo	72	1	219.80	17.77	ppb	0.71	200	100.9	75 - 125	
107 Ag	115	1	60.11	9.83	ppb	3.20	50	100.5	75 - 125	
111 Cd	115	1	204.40	4.44	ppb	1.96	200	100.0	75 - 125	
118 Sn	115	1	198.60	0.03	ppb	2.45	200	99.3	75 - 125	
121 Sb	115	1	246.60	47.83	ppb	1.90	200	99.5	75 - 125	
137 Ba	115	1	265.20	57.79	ppb	2.42	200	102.9	75 - 125	
205 Tl	165	1	240.80	40.63	ppb	1.00	200	100.1	75 - 125	
208 Pb	165	1	215.30	17.32	ppb	0.89	200	99.1	75 - 125	
232 Th	165	1	0.06	0.04	ppb	1.40	200	0.0	75 - 125	
238 U	165	1	194.20	0.01	ppb	2.01	200	97.1	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	498432	1.28	534602	93.2	30 - 120	
45 Sc	1	2624929	1.91	2551677	102.9	30 - 120	
72 Ge	1	1641792	1.38	1553005	105.7	30 - 120	
115 In	1	4505005	1.68	4260602	105.7	30 - 120	
165 Ho	1	8791807	1.57	8806612	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\131_CCV.D\131_CCV.D#
Date Acquired:	Nov 9 2011 01:11 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.64	ppb	1.81	50	107.3	90 - 110	
51	V	72	1	50.93	ppb	0.99	50	101.9	90 - 110	
52	Cr	72	1	49.97	ppb	1.47	50	99.9	90 - 110	
55	Mn	72	1	50.80	ppb	0.92	50	101.6	90 - 110	
59	Co	72	1	50.72	ppb	1.56	50	101.4	90 - 110	
60	Ni	72	1	49.75	ppb	1.02	50	99.5	90 - 110	
63	Cu	72	1	48.85	ppb	2.15	50	97.7	90 - 110	
66	Zn	72	1	49.30	ppb	0.46	50	98.6	90 - 110	
75	As	72	1	50.71	ppb	0.32	50	101.4	90 - 110	
78	Se	72	1	53.18	ppb	3.68	50	106.4	90 - 110	
95	Mo	72	1	50.43	ppb	0.19	50	100.9	90 - 110	
107	Ag	115	1	50.77	ppb	2.86	50	101.5	90 - 110	
111	Cd	115	1	49.46	ppb	0.10	50	98.9	90 - 110	
118	Sn	115	1	48.16	ppb	0.80	50	96.3	90 - 110	
121	Sb	115	1	49.19	ppb	0.46	50	98.4	90 - 110	
137	Ba	115	1	50.81	ppb	0.72	50	101.6	90 - 110	
205	Tl	165	1	50.62	ppb	0.24	50	101.2	90 - 110	
208	Pb	165	1	49.28	ppb	0.87	50	98.6	90 - 110	
232	Th	165	1	49.44	ppb	1.20	50	98.9	90 - 110	
238	U	165	1	49.12	ppb	2.03	50	98.2	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493329	0.45	534602	92.3	30 - 120	
45	Sc	1	2606181	1.80	2551677	102.1	30 - 120	
72	Ge	1	1608239	1.31	1553005	103.6	30 - 120	
115	In	1	4430085	1.19	4260602	104.0	30 - 120	
165	Ho	1	8808278	0.35	8806612	100.0	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\132_CCB.D\132_CCB.D#
Date Acquired:	Nov 9 2011 01:14 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.009	ppb	144.56	1.00	
51	V	72	1	0.021	ppb	80.37	1.00	
52	Cr	72	1	0.008	ppb	53.76	1.00	
55	Mn	72	1	0.019	ppb	9.29	1.00	
59	Co	72	1	0.010	ppb	28.35	1.00	
60	Ni	72	1	-0.014	ppb	40.72	1.00	
63	Cu	72	1	0.003	ppb	43.22	1.00	
66	Zn	72	1	-0.015	ppb	26.77	1.00	
75	As	72	1	0.019	ppb	72.35	1.00	
78	Se	72	1	0.217	ppb	54.06	1.00	
95	Mo	72	1	0.021	ppb	39.16	1.00	
107	Ag	115	1	0.012	ppb	19.05	1.00	
111	Cd	115	1	0.012	ppb	52.05	1.00	
118	Sn	115	1	0.047	ppb	41.80	1.00	
121	Sb	115	1	0.044	ppb	20.99	1.00	
137	Ba	115	1	0.017	ppb	30.17	1.00	
205	Tl	165	1	0.037	ppb	4.25	1.00	
208	Pb	165	1	0.013	ppb	7.16	1.00	
232	Th	165	1	0.042	ppb	7.53	1.00	
238	U	165	1	0.014	ppb	11.22	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496976	0.77	534602	93.0	30 - 120	
45	Sc	1	2610147	0.50	2551677	102.3	30 - 120	
72	Ge	1	1614244	1.42	1553005	103.9	30 - 120	
115	In	1	4441355	0.66	4260602	104.2	30 - 120	
165	Ho	1	8800113	0.94	8806612	99.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\133WASH.D\133WASH.D#
Date Acquired:	Nov 9 2011 01:17 am
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.120 ppb	6.79	1.30	
51	V	72	1	4.912 ppb	1.71	6.50	
52	Cr	72	1	2.149 ppb	1.40	2.60	
55	Mn	72	1	1.224 ppb	3.61	1.30	
59	Co	72	1	1.106 ppb	2.42	1.30	
60	Ni	72	1	2.237 ppb	5.04	2.60	
63	Cu	72	1	2.171 ppb	1.41	2.60	
66	Zn	72	1	10.370 ppb	0.79	13.00	
75	As	72	1	5.270 ppb	0.75	6.50	
78	Se	72	1	5.373 ppb	12.98	6.50	
95	Mo	72	1	2.164 ppb	1.97	2.60	
107	Ag	115	1	5.014 ppb	0.67	6.50	
111	Cd	115	1	1.057 ppb	2.43	1.30	
118	Sn	115	1	9.813 ppb	1.64	13.00	
121	Sb	115	1	2.120 ppb	0.14	2.60	
137	Ba	115	1	1.140 ppb	1.21	1.30	
205	Tl	165	1	1.123 ppb	1.12	1.30	
208	Pb	165	1	1.105 ppb	0.64	1.30	
232	Th	165	1	2.080 ppb	1.87	2.60	
238	U	165	1	1.072 ppb	0.03	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492522	1.60	534602	92.1	30 - 120	
45	Sc	1	2616803	0.24	2551677	102.6	30 - 120	
72	Ge	1	1624289	1.29	1553005	104.6	30 - 120	
115	In	1	4488955	0.46	4260602	105.4	30 - 120	
165	Ho	1	8757178	0.33	8806612	99.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\134_BLK.D\134_BLK.D#
Date Acquired: Nov 9 2011 01:20 am
Operator: LRD
Sample Name: mb 280-94961/1-a
Misc Info: BLANK 94961 DoD4/ 6020A
Vial Number: 3211
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.017 ppb	41.52	2.00	
51	V	72	1	0.028 ppb	51.33	2.00	
52	Cr	72	1	0.101 ppb	21.06	2.00	
55	Mn	72	1	0.142 ppb	11.16	2.00	
59	Co	72	1	0.007 ppb	48.84	2.00	
60	Ni	72	1	-0.002 ppb	509.03	2.00	
63	Cu	72	1	0.016 ppb	11.27	2.00	
66	Zn	72	1	1.089 ppb	2.93	2.00	
75	As	72	1	0.015 ppb	10.83	2.00	
78	Se	72	1	0.175 ppb	41.24	2.00	
95	Mo	72	1	0.003 ppb	55.50	2.00	
107	Ag	115	1	0.006 ppb	26.81	2.00	
111	Cd	115	1	0.005 ppb	48.11	2.00	
118	Sn	115	1	0.039 ppb	29.17	2.00	
121	Sb	115	1	0.022 ppb	3.36	2.00	
137	Ba	115	1	0.030 ppb	8.91	2.00	
205	Tl	165	1	0.024 ppb	11.91	2.00	
208	Pb	165	1	0.014 ppb	14.92	2.00	
232	Th	165	1	0.024 ppb	9.22	2.00	
238	U	165	1	0.006 ppb	18.39	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	507652	1.33	534602	95.0	30 - 120	
45	Sc	1	2698661	1.34	2551677	105.8	30 - 120	
72	Ge	1	1645671	0.80	1553005	106.0	30 - 120	
115	In	1	4543819	0.80	4260602	106.6	30 - 120	
165	Ho	1	8954294	1.56	8806612	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\135_LCS.D\135_LCS.D#
Date Acquired:	Nov 9 2011 01:23 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-94961/2-a
Misc Info:	LCS
Vial Number:	3212
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	42.16	2.79	40	105.4	80 - 120	
51	V	72	1	41.68	1.87	40	104.2	80 - 120	
52	Cr	72	1	42.08	0.48	40	105.2	80 - 120	
55	Mn	72	1	41.61	1.41	40	104.0	80 - 120	
59	Co	72	1	41.88	1.33	40	104.7	80 - 120	
60	Ni	72	1	41.07	0.84	40	102.7	80 - 120	
63	Cu	72	1	40.44	1.53	40	101.1	80 - 120	
66	Zn	72	1	39.91	0.92	40	99.8	80 - 120	
75	As	72	1	40.69	0.47	40	101.7	80 - 120	
78	Se	72	1	41.54	3.24	40	103.9	80 - 120	
95	Mo	72	1	42.48	0.44	40	106.2	80 - 120	
107	Ag	115	1	41.21	1.41	40	103.0	80 - 120	
111	Cd	115	1	39.78	0.48	40	99.5	80 - 120	
118	Sn	115	1	39.75	0.92	40	99.4	80 - 120	
121	Sb	115	1	39.63	0.34	40	99.1	80 - 120	
137	Ba	115	1	42.11	0.30	40	105.3	80 - 120	
205	Tl	165	1	42.25	1.05	40	105.6	80 - 120	
208	Pb	165	1	40.89	0.97	40	102.2	80 - 120	
232	Th	165	1	41.89	2.39	40	104.7	80 - 120	
238	U	165	1	41.02	1.08	40	102.6	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	507380	0.87	534602	94.9	30 - 120	
45	Sc	1	2658513	2.88	2551677	104.2	30 - 120	
72	Ge	1	1619721	0.70	1553005	104.3	30 - 120	
115	In	1	4519826	0.20	4260602	106.1	30 - 120	
165	Ho	1	8908609	0.33	8806612	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\136AREF.D\136AREF.D#
Date Acquired:	Nov 9 2011 01:26 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a
Misc Info:	
Vial Number:	3301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	43.25	43.25	ppb	1.16	3600	
51	V	72	1	49.12	49.12	ppb	0.78	3600	
52	Cr	72	1	54.57	54.57	ppb	0.34	3600	
55	Mn	72	1	1,078.00	1078.00	ppb	1.96	18000	
59	Co	72	1	50.02	50.02	ppb	1.94	3600	
60	Ni	72	1	54.59	54.59	ppb	2.29	3600	
63	Cu	72	1	43.19	43.19	ppb	1.03	3600	
66	Zn	72	1	129.20	129.20	ppb	1.13	3600	
75	As	72	1	42.55	42.55	ppb	0.80	3600	
78	Se	72	1	41.45	41.45	ppb	1.85	3600	
95	Mo	72	1	42.18	42.18	ppb	1.24	3600	
107	Ag	115	1	39.91	39.91	ppb	0.51	3600	
111	Cd	115	1	43.04	43.04	ppb	0.68	3600	
118	Sn	115	1	24.24	24.24	ppb	0.66	3600	
121	Sb	115	1	36.15	36.15	ppb	0.96	3600	
137	Ba	115	1	65.26	65.26	ppb	0.34	3600	
205	Tl	165	1	40.52	40.52	ppb	0.93	3600	
208	Pb	165	1	51.41	51.41	ppb	0.45	3600	
232	Th	165	1	30.21	30.21	ppb	0.22	1000	
238	U	165	1	40.40	40.40	ppb	0.84	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	491589	0.93	534602	92.0	30 - 120	
45	Sc	1	2608268	0.99	2551677	102.2	30 - 120	
72	Ge	1	1573012	1.10	1553005	101.3	30 - 120	
115	In	1	4318371	0.38	4260602	101.4	30 - 120	
165	Ho	1	8834474	1.16	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\137SDIL.D\137SDIL.D#
Date Acquired:	Nov 9 2011 01:29 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	3302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\136AREF.D\136AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	9.19	ppb	0.38	8.65	106.3	90 - 110	
51	V	72	1	9.32	ppb	0.71	9.82	94.8	90 - 110	
52	Cr	72	1	10.38	ppb	1.44	10.91	95.1	90 - 110	
55	Mn	72	1	217.90	ppb	1.99	215.60	101.1	90 - 110	
59	Co	72	1	9.55	ppb	1.69	10.00	95.4	90 - 110	
60	Ni	72	1	11.06	ppb	2.21	10.92	101.3	90 - 110	
63	Cu	72	1	8.80	ppb	0.89	8.64	101.9	90 - 110	
66	Zn	72	1	26.53	ppb	0.86	25.84	102.7	90 - 110	
75	As	72	1	8.51	ppb	0.97	8.51	100.0	90 - 110	
78	Se	72	1	8.57	ppb	5.15	8.29	103.4	90 - 110	
95	Mo	72	1	8.30	ppb	0.91	8.44	98.3	90 - 110	
107	Ag	115	1	8.02	ppb	1.34	7.98	100.5	90 - 110	
111	Cd	115	1	8.82	ppb	3.17	8.61	102.5	90 - 110	
118	Sn	115	1	4.90	ppb	3.04	4.85	101.1	90 - 110	
121	Sb	115	1	7.38	ppb	1.54	7.23	102.1	90 - 110	
137	Ba	115	1	13.07	ppb	1.50	13.05	100.1	90 - 110	
205	Tl	165	1	8.09	ppb	0.50	8.10	99.9	90 - 110	
208	Pb	165	1	10.34	ppb	0.25	10.28	100.6	90 - 110	
232	Th	165	1	5.93	ppb	0.58	6.04	98.1	90 - 110	
238	U	165	1	7.97	ppb	0.40	8.08	98.7	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	500359	0.08	534602	93.6	30 - 120	
45	Sc	1	2635965	0.83	2551677	103.3	30 - 120	
72	Ge	1	1633694	1.51	1553005	105.2	30 - 120	
115	In	1	4414734	1.25	4260602	103.6	30 - 120	
165	Ho	1	8943250	0.71	8806612	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\138PDS.D\138PDS.D#
Date Acquired:	Nov 9 2011 01:32 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	252.00	43.25	ppb	2.07	200	103.6	75 - 125	
51 V	72	1	238.80	49.12	ppb	3.22	200	95.9	75 - 125	
52 Cr	72	1	241.90	54.57	ppb	2.65	200	95.0	75 - 125	
55 Mn	72	1	1239.00	1078.00	ppb	0.98	200	96.9	75 - 125	
59 Co	72	1	238.70	50.02	ppb	1.53	200	95.5	75 - 125	
60 Ni	72	1	251.50	54.59	ppb	0.84	200	98.8	75 - 125	
63 Cu	72	1	231.10	43.19	ppb	1.86	200	95.0	75 - 125	
66 Zn	72	1	322.50	129.20	ppb	0.81	200	98.0	75 - 125	
75 As	72	1	242.00	42.55	ppb	2.54	200	99.8	75 - 125	
78 Se	72	1	242.60	41.45	ppb	2.90	200	100.5	75 - 125	
95 Mo	72	1	245.90	42.18	ppb	2.41	200	101.5	75 - 125	
107 Ag	115	1	87.05	39.91	ppb	2.03	50	96.8	75 - 125	
111 Cd	115	1	249.00	43.04	ppb	2.49	200	102.5	75 - 125	
118 Sn	115	1	223.90	24.24	ppb	1.53	200	99.8	75 - 125	
121 Sb	115	1	240.30	36.15	ppb	0.32	200	101.8	75 - 125	
137 Ba	115	1	282.20	65.26	ppb	0.97	200	106.4	75 - 125	
205 Tl	165	1	234.60	40.52	ppb	1.02	200	97.5	75 - 125	
208 Pb	165	1	239.50	51.41	ppb	0.70	200	95.3	75 - 125	
232 Th	165	1	30.16	30.21	ppb	1.05	200	13.1	75 - 125	
238 U	165	1	232.30	40.40	ppb	1.03	200	96.6	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	493965	0.57	534602	92.4	30 - 120	
45 Sc	1	2593384	2.24	2551677	101.6	30 - 120	
72 Ge	1	1590780	2.06	1553005	102.4	30 - 120	
115 In	1	4322871	0.96	4260602	101.5	30 - 120	
165 Ho	1	8806420	1.30	8806612	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\139_MS.D\139_MS.D#
Date Acquired: Nov 9 2011 01:34 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22438-c-11-b ms
Misc Info: MATRIX SPIKE
Vial Number: 3304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	42.42	43.25	ppb	0.93	40	51.0	50 - 150	
51 V	72	1	48.72	49.12	ppb	3.76	40	54.7	50 - 150	
52 Cr	72	1	54.34	54.57	ppb	3.23	40	57.5	50 - 150	
55 Mn	72	1	1073.00	1078.00	ppb	1.84	40	96.0	50 - 150	
59 Co	72	1	48.26	50.02	ppb	1.98	40	53.6	50 - 150	
60 Ni	72	1	53.25	54.59	ppb	1.48	40	56.3	50 - 150	
63 Cu	72	1	42.09	43.19	ppb	1.73	40	50.6	50 - 150	
66 Zn	72	1	127.60	129.20	ppb	1.25	40	75.4	50 - 150	
75 As	72	1	41.67	42.55	ppb	1.09	40	50.5	50 - 150	
78 Se	72	1	41.62	41.45	ppb	1.16	40	51.1	50 - 150	
95 Mo	72	1	41.40	42.18	ppb	1.53	40	50.4	50 - 150	
107 Ag	115	1	39.33	39.91	ppb	2.33	40	49.2	50 - 150	
111 Cd	115	1	42.61	43.04	ppb	1.78	40	51.3	50 - 150	
118 Sn	115	1	24.01	24.24	ppb	0.31	40	37.4	50 - 150	
121 Sb	115	1	35.76	36.15	ppb	0.54	40	47.0	50 - 150	
137 Ba	115	1	64.45	65.26	ppb	0.80	40	61.2	50 - 150	
205 Tl	165	1	40.16	40.52	ppb	0.54	40	49.9	50 - 150	
208 Pb	165	1	50.50	51.41	ppb	1.32	40	55.2	50 - 150	
232 Th	165	1	30.22	30.21	ppb	1.41	40	43.0	50 - 150	
238 U	165	1	39.73	40.40	ppb	0.57	40	49.4	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	497949	0.04	534602	93.1	30 - 120	
45 Sc	1	2612399	1.54	2551677	102.4	30 - 120	
72 Ge	1	1593727	1.53	1553005	102.6	30 - 120	
115 In	1	4342411	1.53	4260602	101.9	30 - 120	
165 Ho	1	8834476	0.68	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\140_MSD.D\140_MSD.D#
Date Acquired: Nov 9 2011 01:37 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22438-c-11-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\139_MS.D\139_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	0.21	ppb	39.48	42.42	198.01	20	
51	V	72	1	7.36	ppb	1.88	48.72	147.49	20	
52	Cr	72	1	12.97	ppb	2.02	54.34	122.92	20	
55	Mn	72	1	1047.00	ppb	1.70	1073.00	2.45	20	
59	Co	72	1	8.29	ppb	0.86	48.26	141.34	20	
60	Ni	72	1	14.76	ppb	1.18	53.25	113.19	20	
63	Cu	72	1	5.11	ppb	0.76	42.09	156.70	20	
66	Zn	72	1	92.69	ppb	0.91	127.60	31.69	20	
75	As	72	1	2.28	ppb	0.41	41.67	179.21	20	
78	Se	72	1	0.97	ppb	20.02	41.62	190.87	20	
95	Mo	72	1	1.12	ppb	4.23	41.40	189.45	20	
107	Ag	115	1	0.10	ppb	3.08	39.33	198.94	20	
111	Cd	115	1	3.19	ppb	3.77	42.61	172.16	20	
118	Sn	115	1	0.23	ppb	8.52	24.01	196.13	20	
121	Sb	115	1	0.56	ppb	1.06	35.76	193.79	20	
137	Ba	115	1	22.88	ppb	0.76	64.45	95.20	20	
205	Tl	165	1	0.27	ppb	0.83	40.16	197.37	20	
208	Pb	165	1	12.26	ppb	0.58	50.50	121.86	20	
232	Th	165	1	0.67	ppb	1.31	30.22	191.33	20	
238	U	165	1	0.29	ppb	1.43	39.73	197.15	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	500440	1.07	534602	93.6	30 - 120	
45	Sc	1	2648780	3.12	2551677	103.8	30 - 120	
72	Ge	1	1598410	0.47	1553005	102.9	30 - 120	
115	In	1	4374542	1.09	4260602	102.7	30 - 120	
165	Ho	1	8861025	0.50	8806612	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\141_CCV.D\141_CCV.D#
Date Acquired: Nov 9 2011 01:40 am
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.39	ppb	0.97	50	106.8	90 - 110	
51	V	72	1	50.38	ppb	1.58	50	100.8	90 - 110	
52	Cr	72	1	49.63	ppb	0.64	50	99.3	90 - 110	
55	Mn	72	1	49.98	ppb	0.86	50	100.0	90 - 110	
59	Co	72	1	49.81	ppb	0.52	50	99.6	90 - 110	
60	Ni	72	1	49.19	ppb	1.01	50	98.4	90 - 110	
63	Cu	72	1	49.40	ppb	0.74	50	98.8	90 - 110	
66	Zn	72	1	48.92	ppb	1.34	50	97.8	90 - 110	
75	As	72	1	50.38	ppb	1.71	50	100.8	90 - 110	
78	Se	72	1	53.86	ppb	2.14	50	107.7	90 - 110	
95	Mo	72	1	49.81	ppb	0.91	50	99.6	90 - 110	
107	Ag	115	1	50.46	ppb	0.82	50	100.9	90 - 110	
111	Cd	115	1	49.17	ppb	0.82	50	98.3	90 - 110	
118	Sn	115	1	47.97	ppb	0.42	50	95.9	90 - 110	
121	Sb	115	1	48.98	ppb	0.93	50	98.0	90 - 110	
137	Ba	115	1	50.92	ppb	1.58	50	101.8	90 - 110	
205	Tl	165	1	50.85	ppb	0.33	50	101.7	90 - 110	
208	Pb	165	1	49.05	ppb	0.58	50	98.1	90 - 110	
232	Th	165	1	49.67	ppb	2.12	50	99.3	90 - 110	
238	U	165	1	48.70	ppb	1.30	50	97.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	503508	0.91	534602	94.2	30 - 120	
45	Sc	1	2623006	0.83	2551677	102.8	30 - 120	
72	Ge	1	1649350	0.65	1553005	106.2	30 - 120	
115	In	1	4521373	1.45	4260602	106.1	30 - 120	
165	Ho	1	8941329	0.76	8806612	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\142_CCB.D\142_CCB.D#
Date Acquired: Nov 9 2011 01:43 am
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.009	ppb	144.82	1.00	
51	V	72	1	0.000	ppb	4511.70	1.00	
52	Cr	72	1	-0.001	ppb	1053.50	1.00	
55	Mn	72	1	0.083	ppb	13.74	1.00	
59	Co	72	1	0.011	ppb	1.66	1.00	
60	Ni	72	1	-0.016	ppb	45.37	1.00	
63	Cu	72	1	-0.001	ppb	684.36	1.00	
66	Zn	72	1	-0.009	ppb	34.65	1.00	
75	As	72	1	0.014	ppb	55.94	1.00	
78	Se	72	1	0.189	ppb	157.07	1.00	
95	Mo	72	1	0.018	ppb	22.34	1.00	
107	Ag	115	1	0.013	ppb	4.55	1.00	
111	Cd	115	1	0.014	ppb	29.92	1.00	
118	Sn	115	1	0.023	ppb	107.64	1.00	
121	Sb	115	1	0.026	ppb	4.92	1.00	
137	Ba	115	1	0.021	ppb	21.40	1.00	
205	Tl	165	1	0.025	ppb	8.00	1.00	
208	Pb	165	1	0.013	ppb	10.00	1.00	
232	Th	165	1	0.045	ppb	5.05	1.00	
238	U	165	1	0.014	ppb	3.31	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501239	0.38	534602	93.8	30 - 120	
45	Sc	1	2674243	2.02	2551677	104.8	30 - 120	
72	Ge	1	1655365	1.39	1553005	106.6	30 - 120	
115	In	1	4521825	1.45	4260602	106.1	30 - 120	
165	Ho	1	8832897	0.86	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\143WASH.D\143WASH.D#
Date Acquired: Nov 9 2011 01:46 am
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.269 ppb	5.91	1.30	
51	V	72	1	4.878 ppb	1.59	6.50	
52	Cr	72	1	2.119 ppb	0.99	2.60	
55	Mn	72	1	1.269 ppb	2.81	1.30	
59	Co	72	1	1.073 ppb	2.29	1.30	
60	Ni	72	1	2.274 ppb	2.82	2.60	
63	Cu	72	1	2.179 ppb	2.16	2.60	
66	Zn	72	1	10.430 ppb	1.75	13.00	
75	As	72	1	5.263 ppb	1.92	6.50	
78	Se	72	1	5.664 ppb	0.80	6.50	
95	Mo	72	1	2.165 ppb	3.29	2.60	
107	Ag	115	1	5.029 ppb	1.99	6.50	
111	Cd	115	1	1.115 ppb	0.60	1.30	
118	Sn	115	1	9.971 ppb	0.98	13.00	
121	Sb	115	1	2.124 ppb	0.64	2.60	
137	Ba	115	1	1.154 ppb	1.28	1.30	
205	Tl	165	1	1.099 ppb	0.95	1.30	
208	Pb	165	1	1.085 ppb	1.75	1.30	
232	Th	165	1	2.073 ppb	0.73	2.60	
238	U	165	1	1.062 ppb	1.42	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	507663	1.17	534602	95.0	30 - 120	
45	Sc	1	2663595	1.50	2551677	104.4	30 - 120	
72	Ge	1	1663865	0.79	1553005	107.1	30 - 120	
115	In	1	4502189	0.94	4260602	105.7	30 - 120	
165	Ho	1	8974712	1.73	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\144WASH.D\144WASH.D#
Date Acquired: Nov 9 2011 01:49 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.011	ppb	135.37	1.30	
51	V	72	1	0.176	ppb	26.97	6.50	
52	Cr	72	1	1.025	ppb	2.70	2.60	
55	Mn	72	1	0.592	ppb	2.86	1.30	
59	Co	72	1	0.065	ppb	5.59	1.30	
60	Ni	72	1	5.268	ppb	1.43	2.60	
63	Cu	72	1	0.353	ppb	1.71	2.60	
66	Zn	72	1	3.455	ppb	0.51	13.00	
75	As	72	1	0.513	ppb	2.52	6.50	
78	Se	72	1	0.387	ppb	67.55	6.50	
95	Mo	72	1	1999.000	ppb	1.28	2.60	
107	Ag	115	1	0.069	ppb	10.52	6.50	
111	Cd	115	1	0.563	ppb	8.12	1.30	
118	Sn	115	1	0.184	ppb	5.06	13.00	
121	Sb	115	1	0.287	ppb	1.76	2.60	
137	Ba	115	1	0.250	ppb	1.72	1.30	
205	Tl	165	1	0.069	ppb	13.19	1.30	
208	Pb	165	1	0.166	ppb	4.95	1.30	
232	Th	165	1	0.043	ppb	10.99	2.60	
238	U	165	1	0.016	ppb	5.58	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	426228	0.80	534602	79.7	30 - 120	
45	Sc	1	2234973	1.08	2551677	87.6	30 - 120	
72	Ge	1	1372745	1.02	1553005	88.4	30 - 120	
115	In	1	3735449	0.97	4260602	87.7	30 - 120	
165	Ho	1	7710401	1.90	8806612	87.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\145WASH.D\145WASH.D#
Date Acquired: Nov 9 2011 01:52 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.014	ppb	54.51	1.30	
51	V	72	1	0.016	ppb	101.97	6.50	
52	Cr	72	1	-0.019	ppb	56.42	2.60	
55	Mn	72	1	0.050	ppb	19.26	1.30	
59	Co	72	1	0.005	ppb	40.56	1.30	
60	Ni	72	1	-0.027	ppb	53.95	2.60	
63	Cu	72	1	0.004	ppb	92.05	2.60	
66	Zn	72	1	-0.036	ppb	31.46	13.00	
75	As	72	1	0.015	ppb	49.88	6.50	
78	Se	72	1	0.285	ppb	68.19	6.50	
95	Mo	72	1	0.355	ppb	3.94	2.60	
107	Ag	115	1	0.003	ppb	48.33	6.50	
111	Cd	115	1	0.008	ppb	92.87	1.30	
118	Sn	115	1	-0.016	ppb	56.21	13.00	
121	Sb	115	1	0.008	ppb	16.41	2.60	
137	Ba	115	1	0.010	ppb	40.62	1.30	
205	Tl	165	1	0.013	ppb	3.26	1.30	
208	Pb	165	1	0.005	ppb	9.43	1.30	
232	Th	165	1	0.010	ppb	0.78	2.60	
238	U	165	1	0.003	ppb	31.18	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	478292	0.81	534602	89.5	30 - 120	
45	Sc	1	2543999	2.30	2551677	99.7	30 - 120	
72	Ge	1	1588627	1.51	1553005	102.3	30 - 120	
115	In	1	4408999	0.47	4260602	103.5	30 - 120	
165	Ho	1	8847686	1.55	8806612	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\146WASH.D\146WASH.D#
Date Acquired: Nov 9 2011 01:55 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.000 ppb	1982.30	1.30	
51	V	72	1	0.006 ppb	127.28	6.50	
52	Cr	72	1	-0.015 ppb	54.24	2.60	
55	Mn	72	1	0.041 ppb	9.36	1.30	
59	Co	72	1	0.004 ppb	21.59	1.30	
60	Ni	72	1	-0.034 ppb	19.74	2.60	
63	Cu	72	1	0.000 ppb	1276.10	2.60	
66	Zn	72	1	-0.028 ppb	53.99	13.00	
75	As	72	1	0.008 ppb	54.55	6.50	
78	Se	72	1	0.402 ppb	17.15	6.50	
95	Mo	72	1	0.089 ppb	7.34	2.60	
107	Ag	115	1	0.000 ppb	170.77	6.50	
111	Cd	115	1	0.002 ppb	60.62	1.30	
118	Sn	115	1	-0.020 ppb	6.95	13.00	
121	Sb	115	1	0.007 ppb	18.94	2.60	
137	Ba	115	1	0.005 ppb	100.61	1.30	
205	Tl	165	1	0.008 ppb	8.08	1.30	
208	Pb	165	1	0.004 ppb	19.02	1.30	
232	Th	165	1	0.008 ppb	13.36	2.60	
238	U	165	1	0.002 ppb	5.57	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489410	0.55	534602	91.5	30 - 120	
45	Sc	1	2620270	0.60	2551677	102.7	30 - 120	
72	Ge	1	1644029	0.59	1553005	105.9	30 - 120	
115	In	1	4521563	0.56	4260602	106.1	30 - 120	
165	Ho	1	8848234	0.53	8806612	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\147WASH.D\147WASH.D#
Date Acquired: Nov 9 2011 01:58 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	1791.90	1.30	
51	V	72	1	-0.006	ppb	80.66	6.50	
52	Cr	72	1	-0.024	ppb	59.03	2.60	
55	Mn	72	1	0.032	ppb	2.08	1.30	
59	Co	72	1	0.003	ppb	17.91	1.30	
60	Ni	72	1	-0.031	ppb	9.82	2.60	
63	Cu	72	1	-0.010	ppb	97.99	2.60	
66	Zn	72	1	-0.041	ppb	32.59	13.00	
75	As	72	1	0.005	ppb	201.15	6.50	
78	Se	72	1	0.298	ppb	49.77	6.50	
95	Mo	72	1	0.045	ppb	19.43	2.60	
107	Ag	115	1	0.002	ppb	10.72	6.50	
111	Cd	115	1	0.005	ppb	96.57	1.30	
118	Sn	115	1	-0.025	ppb	29.36	13.00	
121	Sb	115	1	0.006	ppb	38.19	2.60	
137	Ba	115	1	0.006	ppb	32.60	1.30	
205	Tl	165	1	0.005	ppb	20.51	1.30	
208	Pb	165	1	0.003	ppb	42.29	1.30	
232	Th	165	1	0.004	ppb	28.69	2.60	
238	U	165	1	0.003	ppb	17.00	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497000	1.82	534602	93.0	30 - 120	
45	Sc	1	2635651	0.31	2551677	103.3	30 - 120	
72	Ge	1	1663668	2.09	1553005	107.1	30 - 120	
115	In	1	4561498	0.25	4260602	107.1	30 - 120	
165	Ho	1	8866619	0.63	8806612	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\148WASH.D\148WASH.D#
Date Acquired: Nov 9 2011 02:01 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	2217.40	1.30	
51	V	72	1	-0.006	ppb	340.26	6.50	
52	Cr	72	1	-0.015	ppb	68.34	2.60	
55	Mn	72	1	0.027	ppb	8.36	1.30	
59	Co	72	1	0.004	ppb	43.89	1.30	
60	Ni	72	1	-0.030	ppb	20.13	2.60	
63	Cu	72	1	-0.004	ppb	180.17	2.60	
66	Zn	72	1	-0.032	ppb	20.10	13.00	
75	As	72	1	0.008	ppb	79.77	6.50	
78	Se	72	1	0.240	ppb	50.19	6.50	
95	Mo	72	1	0.027	ppb	11.20	2.60	
107	Ag	115	1	0.000	ppb	149.42	6.50	
111	Cd	115	1	0.002	ppb	135.03	1.30	
118	Sn	115	1	-0.026	ppb	20.47	13.00	
121	Sb	115	1	0.004	ppb	26.85	2.60	
137	Ba	115	1	0.006	ppb	41.79	1.30	
205	Tl	165	1	0.004	ppb	18.86	1.30	
208	Pb	165	1	0.002	ppb	6.72	1.30	
232	Th	165	1	0.006	ppb	13.23	2.60	
238	U	165	1	0.002	ppb	11.74	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501069	0.84	534602	93.7	30 - 120	
45	Sc	1	2645736	0.91	2551677	103.7	30 - 120	
72	Ge	1	1666646	1.18	1553005	107.3	30 - 120	
115	In	1	4537188	0.60	4260602	106.5	30 - 120	
165	Ho	1	9002165	1.83	8806612	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\149CALB.D\149CALB.D#
Date Acquired:	Nov 9 2011 02:03 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	Cal Blank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
51	V	72	1	392	61.04
52	Cr	72	1	8259	0.97
55	Mn	72	1	1667	8.91
59	Co	72	1	343	33.92
60	Ni	72	1	257	7.61
63	Cu	72	1	987	12.65
66	Zn	72	1	324	5.00
75	As	72	1	126	22.23
78	Se	72	1	370	7.89
95	Mo	72	1	330	24.16
107	Ag	115	1	120	46.05
111	Cd	115	1	77	39.57
118	Sn	115	1	577	21.76
121	Sb	115	1	129	18.58
137	Ba	115	1	124	19.97
205	Tl	165	1	456	6.14
208	Pb	165	1	1053	10.69
232	Th	165	1	657	19.97
238	U	165	1	416	21.22

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	505677	0.19
45	Sc	1	2697067	1.72
72	Ge	1	1666675	0.73
115	In	1	4587598	0.54
165	Ho	1	9026672	1.33

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#
Date Acquired:	Nov 9 2011 02:06 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1118467
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:04 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	13	43.89
51	V	72	1	159	252.72
52	Cr	72	1	7932	2.56
55	Mn	72	1	1537	8.51
59	Co	72	1	230	15.63
60	Ni	72	1	587	4.98
63	Cu	72	1	1030	5.89
66	Zn	72	1	538	4.34
75	As	72	1	119	12.56
78	Se	72	1	373	11.54
95	Mo	72	1	167	42.51
107	Ag	115	1	33	44.86
111	Cd	115	1	53	18.78
118	Sn	115	1	930	16.42
121	Sb	115	1	70	31.55
137	Ba	115	1	94	18.03
205	Tl	165	1	267	12.18
208	Pb	165	1	860	2.25
232	Th	165	1	377	17.26
238	U	165	1	214	29.28

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	511883	0.67
45	Sc	1	2688297	1.44
72	Ge	1	1668870	1.44
115	In	1	4545768	2.38
165	Ho	1	8917520	1.23

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\151ICAL.D\151ICAL.D#
Date Acquired:	Nov 9 2011 02:09 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1118450
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:07 am
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	81715	1.37
51	V	72	1	2308177	2.04
52	Cr	72	1	2480869	2.13
55	Mn	72	1	2132637	1.40
59	Co	72	1	3402394	1.18
60	Ni	72	1	824543	1.23
63	Cu	72	1	2060721	0.53
66	Zn	72	1	369794	0.64
75	As	72	1	262377	0.51
78	Se	72	1	36302	1.59
95	Mo	72	1	979578	1.51
107	Ag	115	1	2953326	2.47
111	Cd	115	1	492222	1.69
118	Sn	115	1	1291721	0.57
121	Sb	115	1	1471060	0.65
137	Ba	115	1	565859	0.29
205	Tl	165	1	5003389	1.32
208	Pb	165	1	6950601	1.50
232	Th	165	1	6746712	2.65
238	U	165	1	7209125	3.42

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	505048	0.78	511883	98.7	30 - 120	
45	Sc	1	2657086	2.00	2688297	98.8	30 - 120	
72	Ge	1	1644365	0.77	1668870	98.5	30 - 120	
115	In	1	4540819	0.91	4545768	99.9	30 - 120	
165	Ho	1	8941115	1.79	8917520	100.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\152_CCV.D\152_CCV.D#
Date Acquired:	Nov 9 2011 02:12 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.21	ppb	1.90	50	100.4	90 - 110	
51	V	72	1	50.32	ppb	0.29	50	100.6	90 - 110	
52	Cr	72	1	50.21	ppb	0.58	50	100.4	90 - 110	
55	Mn	72	1	50.50	ppb	0.75	50	101.0	90 - 110	
59	Co	72	1	50.88	ppb	1.39	50	101.8	90 - 110	
60	Ni	72	1	49.45	ppb	2.09	50	98.9	90 - 110	
63	Cu	72	1	50.08	ppb	0.71	50	100.2	90 - 110	
66	Zn	72	1	49.65	ppb	0.82	50	99.3	90 - 110	
75	As	72	1	49.58	ppb	0.83	50	99.2	90 - 110	
78	Se	72	1	49.32	ppb	1.63	50	98.6	90 - 110	
95	Mo	72	1	49.09	ppb	0.46	50	98.2	90 - 110	
107	Ag	115	1	51.49	ppb	1.61	50	103.0	90 - 110	
111	Cd	115	1	50.02	ppb	1.12	50	100.0	90 - 110	
118	Sn	115	1	48.01	ppb	0.28	50	96.0	90 - 110	
121	Sb	115	1	48.32	ppb	0.24	50	96.6	90 - 110	
137	Ba	115	1	49.91	ppb	0.66	50	99.8	90 - 110	
205	Tl	165	1	50.95	ppb	1.15	50	101.9	90 - 110	
208	Pb	165	1	49.60	ppb	0.85	50	99.2	90 - 110	
232	Th	165	1	50.40	ppb	1.63	50	100.8	90 - 110	
238	U	165	1	50.33	ppb	0.95	50	100.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	502391	0.68	511883	98.1	30 - 120	
45	Sc	1	2649570	1.03	2688297	98.6	30 - 120	
72	Ge	1	1647856	1.60	1668870	98.7	30 - 120	
115	In	1	4512305	0.86	4545768	99.3	30 - 120	
165	Ho	1	8997857	0.91	8917520	100.9	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\153_CCB.D\153_CCB.D#
Date Acquired: Nov 9 2011 02:15 am
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	606.32	1.00	
51	V	72	1	0.007	ppb	109.37	1.00	
52	Cr	72	1	0.016	ppb	73.79	1.00	
55	Mn	72	1	0.009	ppb	28.66	1.00	
59	Co	72	1	0.007	ppb	37.01	1.00	
60	Ni	72	1	-0.025	ppb	45.50	1.00	
63	Cu	72	1	0.001	ppb	231.97	1.00	
66	Zn	72	1	-0.049	ppb	6.27	1.00	
75	As	72	1	0.005	ppb	281.74	1.00	
78	Se	72	1	0.075	ppb	290.88	1.00	
95	Mo	72	1	0.020	ppb	45.18	1.00	
107	Ag	115	1	0.012	ppb	8.30	1.00	
111	Cd	115	1	0.004	ppb	56.75	1.00	
118	Sn	115	1	0.002	ppb	40.69	1.00	
121	Sb	115	1	0.019	ppb	15.95	1.00	
137	Ba	115	1	0.010	ppb	38.00	1.00	
205	Tl	165	1	0.028	ppb	8.14	1.00	
208	Pb	165	1	0.009	ppb	23.47	1.00	
232	Th	165	1	0.056	ppb	13.78	1.00	
238	U	165	1	0.012	ppb	7.81	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	504921	1.24	511883	98.6	30 - 120	
45	Sc	1	2650140	0.43	2688297	98.6	30 - 120	
72	Ge	1	1650382	1.36	1668870	98.9	30 - 120	
115	In	1	4522103	0.94	4545768	99.5	30 - 120	
165	Ho	1	8852154	0.86	8917520	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\154WASH.D\154WASH.D#
Date Acquired:	Nov 9 2011 02:18 am
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.045	ppb	10.19	1.30	
51	V	72	1	5.052	ppb	2.23	6.50	
52	Cr	72	1	2.250	ppb	2.44	2.60	
55	Mn	72	1	1.224	ppb	3.29	1.30	
59	Co	72	1	1.100	ppb	1.26	1.30	
60	Ni	72	1	2.287	ppb	2.80	2.60	
63	Cu	72	1	2.218	ppb	3.21	2.60	
66	Zn	72	1	10.640	ppb	0.69	13.00	
75	As	72	1	5.227	ppb	1.48	6.50	
78	Se	72	1	5.527	ppb	6.90	6.50	
95	Mo	72	1	2.120	ppb	1.19	2.60	
107	Ag	115	1	5.085	ppb	0.84	6.50	
111	Cd	115	1	1.054	ppb	3.53	1.30	
118	Sn	115	1	9.820	ppb	0.36	13.00	
121	Sb	115	1	2.042	ppb	0.81	2.60	
137	Ba	115	1	1.106	ppb	2.16	1.30	
205	Tl	165	1	1.130	ppb	0.59	1.30	
208	Pb	165	1	1.100	ppb	1.03	1.30	
232	Th	165	1	2.112	ppb	1.04	2.60	
238	U	165	1	1.103	ppb	1.75	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	502771	0.90	511883	98.2	30 - 120	
45	Sc	1	2633614	1.07	2688297	98.0	30 - 120	
72	Ge	1	1641505	0.39	1668870	98.4	30 - 120	
115	In	1	4558468	1.23	4545768	100.3	30 - 120	
165	Ho	1	8900407	0.97	8917520	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\155_BLK.D\155_BLK.D#
Date Acquired:	Nov 9 2011 02:21 am
Operator:	LRD
Sample Name:	mb 280-94465/1-a
Misc Info:	BLANK 94465 6020
Vial Number:	4106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	5773.60	2.00	
51	V	72	1	-0.018	ppb	143.37	2.00	
52	Cr	72	1	-0.015	ppb	100.60	2.00	
55	Mn	72	1	0.052	ppb	6.71	2.00	
59	Co	72	1	0.000	ppb	513.51	2.00	
60	Ni	72	1	-0.036	ppb	16.44	2.00	
63	Cu	72	1	0.029	ppb	5.47	2.00	
66	Zn	72	1	1.277	ppb	3.38	2.00	
75	As	72	1	-0.001	ppb	521.20	2.00	
78	Se	72	1	0.053	ppb	138.63	2.00	
95	Mo	72	1	0.001	ppb	1227.20	2.00	
107	Ag	115	1	0.004	ppb	29.52	2.00	
111	Cd	115	1	0.000	ppb	2447.10	2.00	
118	Sn	115	1	-0.004	ppb	116.30	2.00	
121	Sb	115	1	0.005	ppb	27.69	2.00	
137	Ba	115	1	0.037	ppb	19.13	2.00	
205	Tl	165	1	0.010	ppb	26.41	2.00	
208	Pb	165	1	0.008	ppb	6.26	2.00	
232	Th	165	1	0.013	ppb	11.70	2.00	
238	U	165	1	0.002	ppb	17.66	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	507079	1.28	511883	99.1	30 - 120	
45	Sc	1	2665565	2.29	2688297	99.2	30 - 120	
72	Ge	1	1642588	1.73	1668870	98.4	30 - 120	
115	In	1	4511687	1.40	4545768	99.3	30 - 120	
165	Ho	1	8892599	0.72	8917520	99.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\156AREF.D\156AREF.D#
Date Acquired:	Nov 9 2011 02:24 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a
Misc Info:	94961 DoD4/ 6020A
Vial Number:	3301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.15	0.15	ppb	17.22	3600	
51	V	72	1	7.40	7.40	ppb	1.36	3600	
52	Cr	72	1	13.27	13.27	ppb	1.16	3600	
55	Mn	72	1	1,051.00	1051.00	ppb	0.30	18000	
59	Co	72	1	8.33	8.33	ppb	0.48	3600	
60	Ni	72	1	14.99	14.99	ppb	2.74	3600	
63	Cu	72	1	5.25	5.25	ppb	1.46	3600	
66	Zn	72	1	95.66	95.66	ppb	0.56	3600	
75	As	72	1	2.20	2.20	ppb	2.02	3600	
78	Se	72	1	0.53	0.53	ppb	5.22	3600	
95	Mo	72	1	1.12	1.12	ppb	4.51	3600	
107	Ag	115	1	0.09	0.09	ppb	6.20	3600	
111	Cd	115	1	3.25	3.25	ppb	0.08	3600	
118	Sn	115	1	0.18	0.18	ppb	11.72	3600	
121	Sb	115	1	0.51	0.51	ppb	1.28	3600	
137	Ba	115	1	22.48	22.48	ppb	0.28	3600	
205	Tl	165	1	0.26	0.26	ppb	3.61	3600	
208	Pb	165	1	12.33	12.33	ppb	1.34	3600	
232	Th	165	1	0.65	0.65	ppb	1.83	1000	
238	U	165	1	0.28	0.28	ppb	3.72	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	510361	0.60	511883	99.7	30 - 120	
45	Sc	1	2695760	0.11	2688297	100.3	30 - 120	
72	Ge	1	1623049	0.09	1668870	97.3	30 - 120	
115	In	1	4426098	0.92	4545768	97.4	30 - 120	
165	Ho	1	8898419	1.81	8917520	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\157SDIL.D\157SDIL.D#
Date Acquired:	Nov 9 2011 02:27 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	3302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\156AREF.D\156AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.03	ppb	132.74	0.03	93.7	90 - 110	
51	V	72	1	1.41	ppb	1.66	1.48	95.0	90 - 110	
52	Cr	72	1	2.54	ppb	2.13	2.65	95.5	90 - 110	
55	Mn	72	1	207.70	ppb	1.68	210.20	98.8	90 - 110	
59	Co	72	1	1.62	ppb	2.44	1.67	97.1	90 - 110	
60	Ni	72	1	2.90	ppb	3.66	3.00	96.8	90 - 110	
63	Cu	72	1	1.04	ppb	2.82	1.05	99.1	90 - 110	
66	Zn	72	1	20.97	ppb	0.87	19.13	109.6	90 - 110	
75	As	72	1	0.42	ppb	3.43	0.44	94.5	90 - 110	
78	Se	72	1	0.08	ppb	205.07	0.11	75.0	90 - 110	
95	Mo	72	1	0.21	ppb	11.91	0.22	93.5	90 - 110	
107	Ag	115	1	0.02	ppb	5.75	0.02	107.4	90 - 110	
111	Cd	115	1	0.63	ppb	5.74	0.65	96.6	90 - 110	
118	Sn	115	1	0.06	ppb	39.01	0.04	168.7	90 - 110	
121	Sb	115	1	0.11	ppb	4.72	0.10	109.6	90 - 110	
137	Ba	115	1	4.38	ppb	1.39	4.50	97.3	90 - 110	
205	Tl	165	1	0.05	ppb	3.96	0.05	96.9	90 - 110	
208	Pb	165	1	2.45	ppb	1.05	2.47	99.4	90 - 110	
232	Th	165	1	0.12	ppb	3.16	0.13	91.6	90 - 110	
238	U	165	1	0.05	ppb	5.09	0.06	97.0	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	515369	1.20	511883	100.7	30 - 120	
45	Sc	1	2711400	0.67	2688297	100.9	30 - 120	
72	Ge	1	1687890	0.67	1668870	101.1	30 - 120	
115	In	1	4579297	0.82	4545768	100.7	30 - 120	
165	Ho	1	9090217	0.47	8917520	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\158PDS.D\158PDS.D#
Date Acquired:	Nov 9 2011 02:30 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	197.20	0.15	ppb	0.57	200	98.5	75 - 125	
51 V	72	1	208.90	7.40	ppb	1.20	200	100.7	75 - 125	
52 Cr	72	1	214.30	13.27	ppb	1.81	200	100.5	75 - 125	
55 Mn	72	1	1241.00	1051.00	ppb	0.83	200	99.2	75 - 125	
59 Co	72	1	206.40	8.33	ppb	0.50	200	99.1	75 - 125	
60 Ni	72	1	220.60	14.99	ppb	0.72	200	102.6	75 - 125	
63 Cu	72	1	200.50	5.25	ppb	0.63	200	97.7	75 - 125	
66 Zn	72	1	297.00	95.66	ppb	1.63	200	100.5	75 - 125	
75 As	72	1	199.00	2.20	ppb	0.04	200	98.4	75 - 125	
78 Se	72	1	193.80	0.53	ppb	1.20	200	96.6	75 - 125	
95 Mo	72	1	207.50	1.12	ppb	1.34	200	103.2	75 - 125	
107 Ag	115	1	50.10	0.09	ppb	1.88	50	100.0	75 - 125	
111 Cd	115	1	203.10	3.25	ppb	0.59	200	99.9	75 - 125	
118 Sn	115	1	200.70	0.18	ppb	1.05	200	100.3	75 - 125	
121 Sb	115	1	198.10	0.51	ppb	0.37	200	98.8	75 - 125	
137 Ba	115	1	239.10	22.48	ppb	1.23	200	107.5	75 - 125	
205 Tl	165	1	192.60	0.26	ppb	1.14	200	96.2	75 - 125	
208 Pb	165	1	202.50	12.33	ppb	0.33	200	95.4	75 - 125	
232 Th	165	1	0.66	0.65	ppb	0.91	200	0.3	75 - 125	
238 U	165	1	198.00	0.28	ppb	1.12	200	98.9	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	503795	0.42	511883	98.4	30 - 120	
45 Sc	1	2649127	0.49	2688297	98.5	30 - 120	
72 Ge	1	1608398	0.54	1668870	96.4	30 - 120	
115 In	1	4395307	1.44	4545768	96.7	30 - 120	
165 Ho	1	9019775	1.59	8917520	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\159_MS.D\159_MS.D#
Date Acquired:	Nov 9 2011 02:32 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	3304
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	40.11	0.15	ppb	0.58	40	99.9	50 - 150	
51 V	72	1	49.33	7.40	ppb	1.51	40	104.1	50 - 150	
52 Cr	72	1	54.47	13.27	ppb	0.86	40	102.3	50 - 150	
55 Mn	72	1	1069.00	1051.00	ppb	0.83	40	98.0	50 - 150	
59 Co	72	1	49.01	8.33	ppb	0.52	40	101.4	50 - 150	
60 Ni	72	1	54.00	14.99	ppb	1.89	40	98.2	50 - 150	
63 Cu	72	1	43.26	5.25	ppb	0.99	40	95.6	50 - 150	
66 Zn	72	1	130.40	95.66	ppb	0.37	40	96.1	50 - 150	
75 As	72	1	41.12	2.20	ppb	0.42	40	97.4	50 - 150	
78 Se	72	1	38.16	0.53	ppb	1.00	40	94.2	50 - 150	
95 Mo	72	1	40.62	1.12	ppb	1.44	40	98.8	50 - 150	
107 Ag	115	1	39.10	0.09	ppb	0.54	40	97.5	50 - 150	
111 Cd	115	1	42.12	3.25	ppb	0.79	40	97.4	50 - 150	
118 Sn	115	1	22.97	0.18	ppb	1.25	40	57.2	50 - 150	
121 Sb	115	1	34.60	0.51	ppb	0.90	40	85.4	50 - 150	
137 Ba	115	1	62.44	22.48	ppb	0.76	40	99.9	50 - 150	
205 Tl	165	1	40.31	0.26	ppb	1.48	40	100.1	50 - 150	
208 Pb	165	1	50.98	12.33	ppb	1.48	40	97.4	50 - 150	
232 Th	165	1	30.68	0.65	ppb	3.62	40	75.5	50 - 150	
238 U	165	1	41.41	0.28	ppb	2.35	40	102.8	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	512513	1.05	511883	100.1	30 - 120	
45 Sc	1	2675867	1.37	2688297	99.5	30 - 120	
72 Ge	1	1618521	0.65	1668870	97.0	30 - 120	
115 In	1	4474262	0.54	4545768	98.4	30 - 120	
165 Ho	1	8913451	0.82	8917520	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\160_MSD.D\160_MSD.D#
Date Acquired:	Nov 9 2011 02:35 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	3305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\159_MS.D\159_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	40.73	ppb	2.24	40.11	1.53	20	
51	V	72	1	49.62	ppb	0.13	49.33	0.59	20	
52	Cr	72	1	54.72	ppb	1.02	54.47	0.46	20	
55	Mn	72	1	1083.00	ppb	0.68	1069.00	1.30	20	
59	Co	72	1	50.11	ppb	0.66	49.01	2.22	20	
60	Ni	72	1	54.19	ppb	1.44	54.00	0.35	20	
63	Cu	72	1	43.59	ppb	1.39	43.26	0.76	20	
66	Zn	72	1	153.00	ppb	0.93	130.40	15.95	20	
75	As	72	1	40.94	ppb	1.73	41.12	0.44	20	
78	Se	72	1	38.29	ppb	2.69	38.16	0.34	20	
95	Mo	72	1	40.85	ppb	1.82	40.62	0.56	20	
107	Ag	115	1	19.90	ppb	1.38	39.10	65.08	20	
111	Cd	115	1	43.52	ppb	1.14	42.12	3.27	20	
118	Sn	115	1	22.18	ppb	0.82	22.97	3.50	20	
121	Sb	115	1	35.30	ppb	1.00	34.60	2.00	20	
137	Ba	115	1	63.82	ppb	0.84	62.44	2.19	20	
205	Tl	165	1	40.89	ppb	1.04	40.31	1.43	20	
208	Pb	165	1	51.67	ppb	0.85	50.98	1.34	20	
232	Th	165	1	29.84	ppb	1.02	30.68	2.78	20	
238	U	165	1	42.04	ppb	2.39	41.41	1.51	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501902	1.19	511883	98.1	30 - 120	
45	Sc	1	2658513	0.85	2688297	98.9	30 - 120	
72	Ge	1	1632487	1.81	1668870	97.8	30 - 120	
115	In	1	4407045	1.37	4545768	96.9	30 - 120	
165	Ho	1	8968407	0.36	8917520	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\161_CCV.D\161_CCV.D#
Date Acquired:	Nov 9 2011 02:38 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.02	ppb	2.61	50	100.0	90 - 110	
51	V	72	1	51.36	ppb	1.99	50	102.7	90 - 110	
52	Cr	72	1	51.11	ppb	1.79	50	102.2	90 - 110	
55	Mn	72	1	51.49	ppb	2.59	50	103.0	90 - 110	
59	Co	72	1	51.19	ppb	2.25	50	102.4	90 - 110	
60	Ni	72	1	49.63	ppb	1.27	50	99.3	90 - 110	
63	Cu	72	1	51.31	ppb	0.12	50	102.6	90 - 110	
66	Zn	72	1	49.74	ppb	0.98	50	99.5	90 - 110	
75	As	72	1	49.66	ppb	0.65	50	99.3	90 - 110	
78	Se	72	1	49.29	ppb	4.23	50	98.6	90 - 110	
95	Mo	72	1	49.18	ppb	1.36	50	98.4	90 - 110	
107	Ag	115	1	50.90	ppb	0.75	50	101.8	90 - 110	
111	Cd	115	1	49.75	ppb	0.13	50	99.5	90 - 110	
118	Sn	115	1	47.68	ppb	0.66	50	95.4	90 - 110	
121	Sb	115	1	48.34	ppb	0.56	50	96.7	90 - 110	
137	Ba	115	1	49.62	ppb	0.43	50	99.2	90 - 110	
205	Tl	165	1	51.12	ppb	0.20	50	102.2	90 - 110	
208	Pb	165	1	49.64	ppb	0.10	50	99.3	90 - 110	
232	Th	165	1	50.93	ppb	1.95	50	101.9	90 - 110	
238	U	165	1	50.82	ppb	0.78	50	101.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	508138	0.85	511883	99.3	30 - 120	
45	Sc	1	2690369	1.50	2688297	100.1	30 - 120	
72	Ge	1	1672202	0.70	1668870	100.2	30 - 120	
115	In	1	4603188	0.68	4545768	101.3	30 - 120	
165	Ho	1	9016700	0.12	8917520	101.1	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\162_CCB.D\162_CCB.D#
Date Acquired:	Nov 9 2011 02:41 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	687.90	1.00	
51	V	72	1	0.006	ppb	261.23	1.00	
52	Cr	72	1	0.005	ppb	147.03	1.00	
55	Mn	72	1	0.067	ppb	15.98	1.00	
59	Co	72	1	0.009	ppb	45.65	1.00	
60	Ni	72	1	-0.022	ppb	48.59	1.00	
63	Cu	72	1	0.010	ppb	49.51	1.00	
66	Zn	72	1	-0.019	ppb	44.98	1.00	
75	As	72	1	0.001	ppb	138.76	1.00	
78	Se	72	1	0.091	ppb	340.46	1.00	
95	Mo	72	1	0.010	ppb	54.88	1.00	
107	Ag	115	1	0.016	ppb	8.71	1.00	
111	Cd	115	1	0.006	ppb	69.79	1.00	
118	Sn	115	1	-0.002	ppb	574.36	1.00	
121	Sb	115	1	0.023	ppb	11.40	1.00	
137	Ba	115	1	0.009	ppb	35.35	1.00	
205	Tl	165	1	0.024	ppb	11.14	1.00	
208	Pb	165	1	0.012	ppb	3.92	1.00	
232	Th	165	1	0.050	ppb	7.01	1.00	
238	U	165	1	0.014	ppb	6.55	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	519261	0.94	511883	101.4	30 - 120	
45	Sc	1	2755446	1.88	2688297	102.5	30 - 120	
72	Ge	1	1709753	0.64	1668870	102.4	30 - 120	
115	In	1	4642883	1.68	4545768	102.1	30 - 120	
165	Ho	1	9028824	0.21	8917520	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\163WASH.D\163WASH.D#
Date Acquired: Nov 9 2011 02:44 am
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.115 ppb	12.37	1.30	
51	V	72	1	5.023 ppb	0.39	6.50	
52	Cr	72	1	2.214 ppb	1.07	2.60	
55	Mn	72	1	1.281 ppb	1.41	1.30	
59	Co	72	1	1.113 ppb	1.98	1.30	
60	Ni	72	1	2.259 ppb	0.63	2.60	
63	Cu	72	1	2.226 ppb	3.88	2.60	
66	Zn	72	1	10.620 ppb	1.69	13.00	
75	As	72	1	5.274 ppb	0.70	6.50	
78	Se	72	1	5.105 ppb	11.32	6.50	
95	Mo	72	1	2.120 ppb	1.05	2.60	
107	Ag	115	1	5.113 ppb	0.54	6.50	
111	Cd	115	1	1.085 ppb	1.10	1.30	
118	Sn	115	1	9.809 ppb	0.17	13.00	
121	Sb	115	1	2.053 ppb	0.63	2.60	
137	Ba	115	1	1.128 ppb	0.69	1.30	
205	Tl	165	1	1.108 ppb	0.74	1.30	
208	Pb	165	1	1.089 ppb	1.24	1.30	
232	Th	165	1	2.063 ppb	0.90	2.60	
238	U	165	1	1.082 ppb	1.01	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	515292	1.30	511883	100.7	30 - 120	
45	Sc	1	2702847	2.36	2688297	100.5	30 - 120	
72	Ge	1	1679995	2.53	1668870	100.7	30 - 120	
115	In	1	4596835	1.19	4545768	101.1	30 - 120	
165	Ho	1	9066327	0.98	8917520	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\164_BLK.D\164_BLK.D#
Date Acquired:	Nov 9 2011 02:47 am
Operator:	LRD
Sample Name:	mb 280-94465/1-a
Misc Info:	BLANK 94465 6020
Vial Number:	4106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	-0.008 ppb	173.77	2.00	
51	V	72	1	0.005 ppb	299.09	2.00	
52	Cr	72	1	-0.005 ppb	212.74	2.00	
55	Mn	72	1	0.085 ppb	3.17	2.00	
59	Co	72	1	0.002 ppb	85.81	2.00	
60	Ni	72	1	-0.028 ppb	34.43	2.00	
63	Cu	72	1	0.032 ppb	3.59	2.00	
66	Zn	72	1	1.229 ppb	3.04	2.00	
75	As	72	1	0.002 ppb	359.20	2.00	
78	Se	72	1	0.099 ppb	253.76	2.00	
95	Mo	72	1	-0.003 ppb	93.21	2.00	
107	Ag	115	1	0.003 ppb	23.23	2.00	
111	Cd	115	1	-0.001 ppb	152.72	2.00	
118	Sn	115	1	-0.001 ppb	1448.10	2.00	
121	Sb	115	1	0.007 ppb	9.61	2.00	
137	Ba	115	1	0.034 ppb	26.31	2.00	
205	Tl	165	1	0.007 ppb	9.83	2.00	
208	Pb	165	1	0.011 ppb	2.22	2.00	
232	Th	165	1	0.011 ppb	18.43	2.00	
238	U	165	1	0.003 ppb	16.57	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	515099	0.81	511883	100.6	30 - 120	
45	Sc	1	2739564	0.26	2688297	101.9	30 - 120	
72	Ge	1	1696289	0.67	1668870	101.6	30 - 120	
115	In	1	4622150	0.96	4545768	101.7	30 - 120	
165	Ho	1	9021083	0.32	8917520	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\165_LCS.D\165_LCS.D#
Date Acquired:	Nov 9 2011 02:50 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-94465/2-a
Misc Info:	LCS
Vial Number:	4107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	41.58	3.04	40	104.0	80 - 120	
51	V	72	1	42.26	0.99	40	105.7	80 - 120	
52	Cr	72	1	42.17	2.90	40	105.4	80 - 120	
55	Mn	72	1	41.58	2.50	40	104.0	80 - 120	
59	Co	72	1	41.74	2.93	40	104.4	80 - 120	
60	Ni	72	1	41.19	1.13	40	103.0	80 - 120	
63	Cu	72	1	41.50	2.85	40	103.8	80 - 120	
66	Zn	72	1	42.88	1.40	40	107.2	80 - 120	
75	As	72	1	42.15	0.85	40	105.4	80 - 120	
78	Se	72	1	43.24	5.70	40	108.1	80 - 120	
95	Mo	72	1	40.82	0.60	40	102.1	80 - 120	
107	Ag	115	1	42.22	1.20	40	105.6	80 - 120	
111	Cd	115	1	41.50	0.91	40	103.8	80 - 120	
118	Sn	115	1	39.23	1.36	40	98.1	80 - 120	
121	Sb	115	1	39.68	1.37	40	99.2	80 - 120	
137	Ba	115	1	41.21	1.00	40	103.0	80 - 120	
205	Tl	165	1	43.48	3.25	40	108.7	80 - 120	
208	Pb	165	1	41.89	0.48	40	104.7	80 - 120	
232	Th	165	1	42.27	1.04	40	105.7	80 - 120	
238	U	165	1	42.59	0.36	40	106.5	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	516548	1.89	511883	100.9	30 - 120	
45	Sc	1	2680966	0.52	2688297	99.7	30 - 120	
72	Ge	1	1673097	1.61	1668870	100.3	30 - 120	
115	In	1	4632516	1.47	4545768	101.9	30 - 120	
165	Ho	1	8961076	1.05	8917520	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\166AREF.D\166AREF.D#
Date Acquired: Nov 9 2011 02:53 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-1-a
Misc Info: 94465 6020
Vial Number: 4108
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	742.38	3600	
51	V	72	1	0.14	0.14	ppb	13.68	3600	
52	Cr	72	1	0.03	0.03	ppb	60.73	3600	
55	Mn	72	1	236.30	236.30	ppb	0.51	18000	
59	Co	72	1	0.06	0.06	ppb	3.25	3600	
60	Ni	72	1	0.27	0.27	ppb	9.39	3600	
63	Cu	72	1	0.44	0.44	ppb	3.22	3600	
66	Zn	72	1	2.05	2.05	ppb	1.83	3600	
75	As	72	1	2.34	2.34	ppb	0.65	3600	
78	Se	72	1	0.21	0.21	ppb	123.27	3600	
95	Mo	72	1	9.02	9.02	ppb	1.09	3600	
107	Ag	115	1	0.01	0.01	ppb	4.28	3600	
111	Cd	115	1	0.00	0.00	ppb	336.29	3600	
118	Sn	115	1	0.10	0.10	ppb	5.77	3600	
121	Sb	115	1	0.22	0.22	ppb	2.56	3600	
137	Ba	115	1	462.30	462.30	ppb	1.88	3600	
205	Tl	165	1	0.03	0.03	ppb	14.55	3600	
208	Pb	165	1	0.05	0.05	ppb	7.29	3600	
232	Th	165	1	0.05	0.05	ppb	8.67	1000	
238	U	165	1	1.67	1.67	ppb	0.92	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	480087	1.42	511883	93.8	30 - 120	
45	Sc	1	2570425	2.17	2688297	95.6	30 - 120	
72	Ge	1	1526260	1.24	1668870	91.5	30 - 120	
115	In	1	4123917	0.74	4545768	90.7	30 - 120	
165	Ho	1	8383768	1.00	8917520	94.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\167SDIL.D\167SDIL.D#
Date Acquired: Nov 9 2011 02:56 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-1-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 4109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\166AREF.D\166AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)			Flag
9	Be	6	1	-0.02	ppb	0.00	0.00	2641.8	90	-	110	
51	V	72	1	0.04	ppb	19.21	0.03	139.5	90	-	110	
52	Cr	72	1	0.01	ppb	125.66	0.01	151.1	90	-	110	
55	Mn	72	1	49.57	ppb	1.32	47.26	104.9	90	-	110	
59	Co	72	1	0.01	ppb	13.52	0.01	83.4	90	-	110	
60	Ni	72	1	0.02	ppb	59.83	0.05	44.8	90	-	110	
63	Cu	72	1	0.09	ppb	8.88	0.09	109.0	90	-	110	
66	Zn	72	1	0.43	ppb	2.15	0.41	106.0	90	-	110	
75	As	72	1	0.45	ppb	4.20	0.47	97.2	90	-	110	
78	Se	72	1	0.06	ppb	320.28	0.04	144.9	90	-	110	
95	Mo	72	1	1.74	ppb	2.45	1.80	96.2	90	-	110	
107	Ag	115	1	0.00	ppb	9.64	0.00	130.9	90	-	110	
111	Cd	115	1	0.00	ppb	822.15	0.00	95.0	90	-	110	
118	Sn	115	1	0.03	ppb	18.88	0.02	153.9	90	-	110	
121	Sb	115	1	0.04	ppb	4.04	0.04	98.5	90	-	110	
137	Ba	115	1	90.42	ppb	0.37	92.46	97.8	90	-	110	
205	Tl	165	1	0.01	ppb	7.24	0.01	151.0	90	-	110	
208	Pb	165	1	0.01	ppb	14.86	0.01	97.8	90	-	110	
232	Th	165	1	0.01	ppb	22.15	0.01	139.9	90	-	110	
238	U	165	1	0.34	ppb	2.39	0.33	100.7	90	-	110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	501173	0.83	511883	97.9	30	-	120	
45	Sc	1	2662899	0.78	2688297	99.1	30	-	120	
72	Ge	1	1645503	0.70	1668870	98.6	30	-	120	
115	In	1	4374484	1.27	4545768	96.2	30	-	120	
165	Ho	1	8804416	0.87	8917520	98.7	30	-	120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\168PDS.D\168PDS.D#
Date Acquired:	Nov 9 2011 02:58 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-1-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	4110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00
Spike Ref. File:	---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	210.20	0.00	ppb	0.51	200	105.1	75 - 125	
51 V	72	1	207.20	0.14	ppb	2.22	200	103.5	75 - 125	
52 Cr	72	1	201.70	0.03	ppb	1.89	200	100.8	75 - 125	
55 Mn	72	1	431.80	236.30	ppb	1.68	200	99.0	75 - 125	
59 Co	72	1	193.40	0.06	ppb	0.84	200	96.7	75 - 125	
60 Ni	72	1	198.80	0.27	ppb	1.65	200	99.3	75 - 125	
63 Cu	72	1	189.90	0.44	ppb	1.58	200	94.7	75 - 125	
66 Zn	72	1	196.70	2.05	ppb	1.11	200	97.4	75 - 125	
75 As	72	1	212.40	2.34	ppb	0.77	200	105.0	75 - 125	
78 Se	72	1	207.90	0.21	ppb	1.17	200	103.8	75 - 125	
95 Mo	72	1	220.40	9.02	ppb	1.55	200	105.4	75 - 125	
107 Ag	115	1	48.74	0.01	ppb	2.19	50	97.5	75 - 125	
111 Cd	115	1	203.30	0.00	ppb	0.76	200	101.6	75 - 125	
118 Sn	115	1	203.60	0.10	ppb	1.64	200	101.8	75 - 125	
121 Sb	115	1	208.30	0.22	ppb	1.08	200	104.0	75 - 125	
137 Ba	115	1	669.70	462.30	ppb	1.16	200	101.1	75 - 125	
205 Tl	165	1	190.60	0.03	ppb	1.41	200	95.3	75 - 125	
208 Pb	165	1	187.20	0.05	ppb	2.05	200	93.6	75 - 125	
232 Th	165	1	0.07	0.05	ppb	6.27	200	0.0	75 - 125	
238 U	165	1	200.10	1.67	ppb	3.32	200	99.2	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	472507	0.73	511883	92.3	30 - 120	
45 Sc	1	2516100	0.79	2688297	93.6	30 - 120	
72 Ge	1	1495306	0.94	1668870	89.6	30 - 120	
115 In	1	4042675	0.87	4545768	88.9	30 - 120	
165 Ho	1	8423774	1.68	8917520	94.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\169_MS.D\169_MS.D#
Date Acquired:	Nov 9 2011 03:01 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-1-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	4111
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	42.98	0.00	ppb	1.59	40	107.5	50 - 150	
51 V	72	1	43.60	0.14	ppb	1.94	40	108.6	50 - 150	
52 Cr	72	1	42.35	0.03	ppb	1.02	40	105.8	50 - 150	
55 Mn	72	1	279.50	236.30	ppb	1.94	40	101.2	50 - 150	
59 Co	72	1	41.28	0.06	ppb	1.32	40	103.0	50 - 150	
60 Ni	72	1	38.97	0.27	ppb	2.31	40	96.8	50 - 150	
63 Cu	72	1	38.29	0.44	ppb	0.89	40	94.7	50 - 150	
66 Zn	72	1	41.74	2.05	ppb	0.23	40	99.3	50 - 150	
75 As	72	1	44.98	2.34	ppb	1.04	40	106.2	50 - 150	
78 Se	72	1	42.76	0.21	ppb	3.03	40	106.3	50 - 150	
95 Mo	72	1	51.45	9.02	ppb	2.31	40	105.0	50 - 150	
107 Ag	115	1	39.30	0.01	ppb	1.65	40	98.2	50 - 150	
111 Cd	115	1	41.15	0.00	ppb	0.47	40	102.9	50 - 150	
118 Sn	115	1	40.46	0.10	ppb	0.60	40	100.9	50 - 150	
121 Sb	115	1	41.71	0.22	ppb	1.12	40	103.7	50 - 150	
137 Ba	115	1	517.00	462.30	ppb	2.23	40	102.9	50 - 150	
205 Tl	165	1	41.51	0.03	ppb	1.50	40	103.7	50 - 150	
208 Pb	165	1	39.02	0.05	ppb	1.53	40	97.4	50 - 150	
232 Th	165	1	42.87	0.05	ppb	1.92	40	107.0	50 - 150	
238 U	165	1	44.49	1.67	ppb	1.44	40	106.8	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	466531	0.43	511883	91.1	30 - 120	
45 Sc	1	2497196	0.09	2688297	92.9	30 - 120	
72 Ge	1	1507624	1.51	1668870	90.3	30 - 120	
115 In	1	4059045	1.15	4545768	89.3	30 - 120	
165 Ho	1	8312207	1.03	8917520	93.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\170_MSD.D\170_MSD.D#
Date Acquired:	Nov 9 2011 03:04 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-1-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	4112
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\169_MS.D\169_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	42.60	ppb	1.67	42.98	0.89	20	
51	V	72	1	44.08	ppb	2.29	43.60	1.09	20	
52	Cr	72	1	43.04	ppb	1.79	42.35	1.62	20	
55	Mn	72	1	285.90	ppb	3.26	279.50	2.26	20	
59	Co	72	1	41.68	ppb	1.00	41.28	0.96	20	
60	Ni	72	1	39.73	ppb	1.96	38.97	1.93	20	
63	Cu	72	1	38.80	ppb	1.34	38.29	1.32	20	
66	Zn	72	1	41.67	ppb	0.98	41.74	0.17	20	
75	As	72	1	45.30	ppb	1.46	44.98	0.71	20	
78	Se	72	1	43.23	ppb	3.83	42.76	1.09	20	
95	Mo	72	1	52.65	ppb	1.76	51.45	2.31	20	
107	Ag	115	1	39.04	ppb	1.88	39.30	0.66	20	
111	Cd	115	1	40.70	ppb	1.35	41.15	1.10	20	
118	Sn	115	1	40.32	ppb	1.85	40.46	0.35	20	
121	Sb	115	1	41.40	ppb	1.29	41.71	0.75	20	
137	Ba	115	1	514.30	ppb	1.93	517.00	0.52	20	
205	Tl	165	1	40.47	ppb	1.09	41.51	2.54	20	
208	Pb	165	1	38.69	ppb	0.56	39.02	0.85	20	
232	Th	165	1	42.14	ppb	0.60	42.87	1.72	20	
238	U	165	1	44.05	ppb	1.05	44.49	0.99	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	462764	2.43	511883	90.4	30 - 120	
45	Sc	1	2541695	1.94	2688297	94.5	30 - 120	
72	Ge	1	1483298	1.01	1668870	88.9	30 - 120	
115	In	1	4053874	0.93	4545768	89.2	30 - 120	
165	Ho	1	8351619	0.11	8917520	93.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\171SMPL.D\171SMPL.D#
Date Acquired: Nov 9 2011 03:07 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-2-a
Misc Info:
Vial Number: 4201
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	138.81	3600	
51	V	72	1	0.48	0.48	ppb	1.02	3600	
52	Cr	72	1	0.35	0.35	ppb	2.11	3600	
55	Mn	72	1	106.00	106.00	ppb	1.57	18000	
59	Co	72	1	0.21	0.21	ppb	4.48	3600	
60	Ni	72	1	0.42	0.42	ppb	8.69	3600	
63	Cu	72	1	0.30	0.30	ppb	3.66	3600	
66	Zn	72	1	2.78	2.78	ppb	1.07	3600	
75	As	72	1	2.80	2.80	ppb	1.71	3600	
78	Se	72	1	0.09	0.09	ppb	254.05	3600	
95	Mo	72	1	7.61	7.61	ppb	0.50	3600	
107	Ag	115	1	0.01	0.01	ppb	6.74	3600	
111	Cd	115	1	0.02	0.02	ppb	44.56	3600	
118	Sn	115	1	0.25	0.25	ppb	7.08	3600	
121	Sb	115	1	0.05	0.05	ppb	2.26	3600	
137	Ba	115	1	229.00	229.00	ppb	1.20	3600	
205	Tl	165	1	0.02	0.02	ppb	5.80	3600	
208	Pb	165	1	0.17	0.17	ppb	2.18	3600	
232	Th	165	1	0.18	0.18	ppb	13.29	1000	
238	U	165	1	0.28	0.28	ppb	0.84	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	473549	0.31	511883	92.5	30 - 120	
45	Sc	1	2523442	0.68	2688297	93.9	30 - 120	
72	Ge	1	1543846	0.56	1668870	92.5	30 - 120	
115	In	1	4149501	1.15	4545768	91.3	30 - 120	
165	Ho	1	8408460	0.47	8917520	94.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\172_CCV.D\172_CCV.D#
Date Acquired: Nov 9 2011 03:10 am
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.52	ppb	1.18	50	99.0	90 - 110	
51	V	72	1	50.99	ppb	1.97	50	102.0	90 - 110	
52	Cr	72	1	50.08	ppb	1.98	50	100.2	90 - 110	
55	Mn	72	1	50.26	ppb	0.79	50	100.5	90 - 110	
59	Co	72	1	50.86	ppb	1.35	50	101.7	90 - 110	
60	Ni	72	1	49.21	ppb	1.33	50	98.4	90 - 110	
63	Cu	72	1	49.68	ppb	1.04	50	99.4	90 - 110	
66	Zn	72	1	49.39	ppb	0.75	50	98.8	90 - 110	
75	As	72	1	49.44	ppb	0.62	50	98.9	90 - 110	
78	Se	72	1	49.32	ppb	2.81	50	98.6	90 - 110	
95	Mo	72	1	48.97	ppb	1.06	50	97.9	90 - 110	
107	Ag	115	1	50.55	ppb	0.83	50	101.1	90 - 110	
111	Cd	115	1	49.51	ppb	0.48	50	99.0	90 - 110	
118	Sn	115	1	47.73	ppb	1.64	50	95.5	90 - 110	
121	Sb	115	1	48.34	ppb	0.82	50	96.7	90 - 110	
137	Ba	115	1	50.37	ppb	0.94	50	100.7	90 - 110	
205	Tl	165	1	50.78	ppb	1.15	50	101.6	90 - 110	
208	Pb	165	1	48.94	ppb	1.49	50	97.9	90 - 110	
232	Th	165	1	50.25	ppb	1.85	50	100.5	90 - 110	
238	U	165	1	50.18	ppb	0.11	50	100.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	494065	1.38	511883	96.5	30 - 120	
45	Sc	1	2586643	2.25	2688297	96.2	30 - 120	
72	Ge	1	1607623	1.46	1668870	96.3	30 - 120	
115	In	1	4416448	0.73	4545768	97.2	30 - 120	
165	Ho	1	8811229	1.28	8917520	98.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\173_CCB.D\173_CCB.D#
Date Acquired: Nov 9 2011 03:13 am
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.003	ppb	385.24	1.00	
51	V	72	1	0.009	ppb	108.94	1.00	
52	Cr	72	1	0.017	ppb	63.25	1.00	
55	Mn	72	1	0.029	ppb	16.51	1.00	
59	Co	72	1	0.007	ppb	23.16	1.00	
60	Ni	72	1	-0.020	ppb	7.15	1.00	
63	Cu	72	1	0.010	ppb	31.13	1.00	
66	Zn	72	1	-0.020	ppb	42.88	1.00	
75	As	72	1	0.012	ppb	85.08	1.00	
78	Se	72	1	0.056	ppb	146.62	1.00	
95	Mo	72	1	0.014	ppb	67.09	1.00	
107	Ag	115	1	0.014	ppb	10.47	1.00	
111	Cd	115	1	0.003	ppb	115.25	1.00	
118	Sn	115	1	0.000	ppb	9520.10	1.00	
121	Sb	115	1	0.017	ppb	6.91	1.00	
137	Ba	115	1	0.024	ppb	13.44	1.00	
205	Tl	165	1	0.021	ppb	14.69	1.00	
208	Pb	165	1	0.011	ppb	7.65	1.00	
232	Th	165	1	0.052	ppb	9.05	1.00	
238	U	165	1	0.013	ppb	6.70	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	485587	1.18	511883	94.9	30 - 120	
45	Sc	1	2583865	2.21	2688297	96.1	30 - 120	
72	Ge	1	1608983	0.77	1668870	96.4	30 - 120	
115	In	1	4434167	0.65	4545768	97.5	30 - 120	
165	Ho	1	8706724	0.59	8917520	97.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\174SMPL.D\174SMPL.D#
Date Acquired: Nov 9 2011 03:16 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-3-a
Misc Info:
Vial Number: 4202
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	105.84	3600	
51	V	72	1	0.45	0.45	ppb	16.13	3600	
52	Cr	72	1	0.25	0.25	ppb	9.54	3600	
55	Mn	72	1	123.60	123.60	ppb	2.71	18000	
59	Co	72	1	0.29	0.29	ppb	4.16	3600	
60	Ni	72	1	0.59	0.59	ppb	3.12	3600	
63	Cu	72	1	0.62	0.62	ppb	1.30	3600	
66	Zn	72	1	6.56	6.56	ppb	0.90	3600	
75	As	72	1	3.72	3.72	ppb	2.38	3600	
78	Se	72	1	0.41	0.41	ppb	64.13	3600	
95	Mo	72	1	1.55	1.55	ppb	4.32	3600	
107	Ag	115	1	0.01	0.01	ppb	21.82	3600	
111	Cd	115	1	0.01	0.01	ppb	54.81	3600	
118	Sn	115	1	0.17	0.17	ppb	7.88	3600	
121	Sb	115	1	0.03	0.03	ppb	10.08	3600	
137	Ba	115	1	267.10	267.10	ppb	0.26	3600	
205	Tl	165	1	0.03	0.03	ppb	17.24	3600	
208	Pb	165	1	0.18	0.18	ppb	1.42	3600	
232	Th	165	1	0.07	0.07	ppb	9.03	1000	
238	U	165	1	0.20	0.20	ppb	1.16	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	477580	0.82	511883	93.3	30 - 120	
45	Sc	1	2551600	0.77	2688297	94.9	30 - 120	
72	Ge	1	1556803	1.17	1668870	93.3	30 - 120	
115	In	1	4205353	0.93	4545768	92.5	30 - 120	
165	Ho	1	8476427	0.23	8917520	95.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\175SMPL.D\175SMPL.D#
Date Acquired:	Nov 9 2011 03:19 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-4-a
Misc Info:	
Vial Number:	4203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	113.36	3600	
51	V	72	1	0.16	0.16	ppb	15.76	3600	
52	Cr	72	1	0.08	0.08	ppb	11.56	3600	
55	Mn	72	1	160.90	160.90	ppb	2.47	18000	
59	Co	72	1	0.14	0.14	ppb	4.62	3600	
60	Ni	72	1	0.19	0.19	ppb	6.07	3600	
63	Cu	72	1	0.33	0.33	ppb	1.70	3600	
66	Zn	72	1	2.45	2.45	ppb	3.73	3600	
75	As	72	1	0.50	0.50	ppb	2.18	3600	
78	Se	72	1	0.16	0.16	ppb	128.22	3600	
95	Mo	72	1	0.39	0.39	ppb	5.61	3600	
107	Ag	115	1	0.00	0.00	ppb	31.94	3600	
111	Cd	115	1	0.00	0.00	ppb	184.89	3600	
118	Sn	115	1	0.22	0.22	ppb	0.77	3600	
121	Sb	115	1	0.02	0.02	ppb	13.17	3600	
137	Ba	115	1	220.90	220.90	ppb	2.54	3600	
205	Tl	165	1	0.01	0.01	ppb	6.11	3600	
208	Pb	165	1	0.11	0.11	ppb	1.43	3600	
232	Th	165	1	0.02	0.02	ppb	4.26	1000	
238	U	165	1	0.03	0.03	ppb	4.15	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	470293	1.17	511883	91.9	30 - 120	
45	Sc	1	2544439	0.97	2688297	94.6	30 - 120	
72	Ge	1	1525095	0.29	1668870	91.4	30 - 120	
115	In	1	4149107	0.35	4545768	91.3	30 - 120	
165	Ho	1	8468870	0.59	8917520	95.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\176SMPL.D\176SMPL.D#
Date Acquired:	Nov 9 2011 03:22 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-5-a
Misc Info:	
Vial Number:	4204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	964.98	3600	
51	V	72	1	0.06	0.06	ppb	39.59	3600	
52	Cr	72	1	0.15	0.15	ppb	14.11	3600	
55	Mn	72	1	266.80	266.80	ppb	1.45	18000	
59	Co	72	1	0.06	0.06	ppb	4.73	3600	
60	Ni	72	1	0.35	0.35	ppb	7.95	3600	
63	Cu	72	1	0.24	0.24	ppb	2.81	3600	
66	Zn	72	1	2.46	2.46	ppb	3.48	3600	
75	As	72	1	0.27	0.27	ppb	5.40	3600	
78	Se	72	1	0.12	0.12	ppb	174.84	3600	
95	Mo	72	1	0.27	0.27	ppb	4.74	3600	
107	Ag	115	1	0.01	0.01	ppb	17.89	3600	
111	Cd	115	1	0.01	0.01	ppb	43.33	3600	
118	Sn	115	1	0.44	0.44	ppb	11.42	3600	
121	Sb	115	1	0.02	0.02	ppb	3.67	3600	
137	Ba	115	1	805.30	805.30	ppb	1.86	3600	
205	Tl	165	1	0.02	0.02	ppb	4.46	3600	
208	Pb	165	1	0.06	0.06	ppb	2.47	3600	
232	Th	165	1	0.02	0.02	ppb	29.58	1000	
238	U	165	1	0.08	0.08	ppb	3.61	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	449118	2.48	511883	87.7	30 - 120	
45	Sc	1	2396801	1.81	2688297	89.2	30 - 120	
72	Ge	1	1423018	1.50	1668870	85.3	30 - 120	
115	In	1	3853878	1.93	4545768	84.8	30 - 120	
165	Ho	1	7903628	4.10	8917520	88.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\177SMPL.D\177SMPL.D#
Date Acquired:	Nov 9 2011 03:25 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-6-a
Misc Info:	
Vial Number:	4205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	390.15	3600	
51	V	72	1	0.15	0.15	ppb	8.91	3600	
52	Cr	72	1	0.03	0.03	ppb	1.69	3600	
55	Mn	72	1	182.00	182.00	ppb	2.07	18000	
59	Co	72	1	0.08	0.08	ppb	7.48	3600	
60	Ni	72	1	0.33	0.33	ppb	3.80	3600	
63	Cu	72	1	0.12	0.12	ppb	2.79	3600	
66	Zn	72	1	2.08	2.08	ppb	2.43	3600	
75	As	72	1	0.35	0.35	ppb	5.05	3600	
78	Se	72	1	0.14	0.14	ppb	66.70	3600	
95	Mo	72	1	0.19	0.19	ppb	4.06	3600	
107	Ag	115	1	0.00	0.00	ppb	34.35	3600	
111	Cd	115	1	0.00	0.00	ppb	55.82	3600	
118	Sn	115	1	0.01	0.01	ppb	99.40	3600	
121	Sb	115	1	0.02	0.02	ppb	13.81	3600	
137	Ba	115	1	555.80	555.80	ppb	0.75	3600	
205	Tl	165	1	0.01	0.01	ppb	10.27	3600	
208	Pb	165	1	0.03	0.03	ppb	8.02	3600	
232	Th	165	1	0.00	0.00	ppb	41.57	1000	
238	U	165	1	0.04	0.04	ppb	4.10	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454232	1.06	511883	88.7	30 - 120	
45	Sc	1	2441476	1.55	2688297	90.8	30 - 120	
72	Ge	1	1459554	1.44	1668870	87.5	30 - 120	
115	In	1	4007190	1.35	4545768	88.2	30 - 120	
165	Ho	1	8163298	0.75	8917520	91.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\178SMPL.D\178SMPL.D#
Date Acquired: Nov 9 2011 03:28 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-7-a
Misc Info:
Vial Number: 4206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	401.31	3600	
51	V	72	1	0.14	0.14	ppb	7.78	3600	
52	Cr	72	1	0.03	0.03	ppb	29.99	3600	
55	Mn	72	1	214.80	214.80	ppb	0.81	18000	
59	Co	72	1	0.07	0.07	ppb	11.80	3600	
60	Ni	72	1	0.30	0.30	ppb	7.53	3600	
63	Cu	72	1	0.05	0.05	ppb	2.52	3600	
66	Zn	72	1	2.05	2.05	ppb	1.92	3600	
75	As	72	1	0.35	0.35	ppb	3.39	3600	
78	Se	72	1	0.01	0.01	ppb	242.01	3600	
95	Mo	72	1	0.10	0.10	ppb	14.18	3600	
107	Ag	115	1	0.00	0.00	ppb	13.87	3600	
111	Cd	115	1	0.00	0.00	ppb	106.36	3600	
118	Sn	115	1	0.00	0.00	ppb	143.71	3600	
121	Sb	115	1	0.02	0.02	ppb	17.05	3600	
137	Ba	115	1	688.80	688.80	ppb	0.97	3600	
205	Tl	165	1	0.01	0.01	ppb	10.04	3600	
208	Pb	165	1	0.01	0.01	ppb	6.13	3600	
232	Th	165	1	0.00	0.00	ppb	52.51	1000	
238	U	165	1	0.02	0.02	ppb	8.51	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	438966	0.94	511883	85.8	30 - 120	
45	Sc	1	2396539	0.41	2688297	89.1	30 - 120	
72	Ge	1	1422227	1.28	1668870	85.2	30 - 120	
115	In	1	3894018	1.44	4545768	85.7	30 - 120	
165	Ho	1	7954413	0.42	8917520	89.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\179SMPL.D\179SMPL.D#
Date Acquired:	Nov 9 2011 03:31 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-8-a
Misc Info:	
Vial Number:	4207
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	220.41	3600	
51	V	72	1	0.04	0.04	ppb	18.85	3600	
52	Cr	72	1	0.01	0.01	ppb	185.54	3600	
55	Mn	72	1	135.30	135.30	ppb	1.76	18000	
59	Co	72	1	0.21	0.21	ppb	4.19	3600	
60	Ni	72	1	0.30	0.30	ppb	8.65	3600	
63	Cu	72	1	0.11	0.11	ppb	8.11	3600	
66	Zn	72	1	1.73	1.73	ppb	1.68	3600	
75	As	72	1	2.33	2.33	ppb	1.18	3600	
78	Se	72	1	0.18	0.18	ppb	107.60	3600	
95	Mo	72	1	0.48	0.48	ppb	2.92	3600	
107	Ag	115	1	0.00	0.00	ppb	89.96	3600	
111	Cd	115	1	0.01	0.01	ppb	80.22	3600	
118	Sn	115	1	0.04	0.04	ppb	8.87	3600	
121	Sb	115	1	0.03	0.03	ppb	18.31	3600	
137	Ba	115	1	324.90	324.90	ppb	0.65	3600	
205	Tl	165	1	0.01	0.01	ppb	20.13	3600	
208	Pb	165	1	0.02	0.02	ppb	11.57	3600	
232	Th	165	1	0.00	0.00	ppb	53.98	1000	
238	U	165	1	0.28	0.28	ppb	0.50	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454297	0.96	511883	88.8	30 - 120	
45	Sc	1	2463850	1.33	2688297	91.7	30 - 120	
72	Ge	1	1489968	1.74	1668870	89.3	30 - 120	
115	In	1	4034749	1.37	4545768	88.8	30 - 120	
165	Ho	1	8200805	0.15	8917520	92.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\180SMPL.D\180SMPL.D#
Date Acquired:	Nov 9 2011 03:33 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-9-a
Misc Info:	
Vial Number:	4208
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	82.97	3600	
51	V	72	1	2.63	2.63	ppb	4.44	3600	
52	Cr	72	1	0.06	0.06	ppb	56.07	3600	
55	Mn	72	1	84.55	84.55	ppb	4.00	18000	
59	Co	72	1	2.16	2.16	ppb	3.05	3600	
60	Ni	72	1	6.16	6.16	ppb	0.32	3600	
63	Cu	72	1	0.59	0.59	ppb	2.49	3600	
66	Zn	72	1	1.75	1.75	ppb	3.99	3600	
75	As	72	1	0.50	0.50	ppb	5.18	3600	
78	Se	72	1	0.39	0.39	ppb	45.27	3600	
95	Mo	72	1	0.71	0.71	ppb	3.48	3600	
107	Ag	115	1	0.00	0.00	ppb	25.14	3600	
111	Cd	115	1	0.01	0.01	ppb	181.94	3600	
118	Sn	115	1	0.02	0.02	ppb	42.03	3600	
121	Sb	115	1	0.03	0.03	ppb	8.65	3600	
137	Ba	115	1	49.98	49.98	ppb	1.06	3600	
205	Tl	165	1	0.01	0.01	ppb	19.72	3600	
208	Pb	165	1	0.03	0.03	ppb	7.27	3600	
232	Th	165	1	0.01	0.01	ppb	14.12	1000	
238	U	165	1	15.02	15.02	ppb	1.01	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	417262	1.88	511883	81.5	30 - 120	
45	Sc	1	2298555	1.25	2688297	85.5	30 - 120	
72	Ge	1	1375881	1.14	1668870	82.4	30 - 120	
115	In	1	3816328	0.92	4545768	84.0	30 - 120	
165	Ho	1	7707277	1.02	8917520	86.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\181SMPL.D\181SMPL.D#
Date Acquired: Nov 9 2011 03:36 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-10-a
Misc Info:
Vial Number: 4209
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	374.94	3600	
51	V	72	1	0.19	0.19	ppb	17.61	3600	
52	Cr	72	1	0.16	0.16	ppb	7.04	3600	
55	Mn	72	1	114.80	114.80	ppb	1.15	18000	
59	Co	72	1	0.18	0.18	ppb	4.95	3600	
60	Ni	72	1	0.19	0.19	ppb	17.97	3600	
63	Cu	72	1	0.09	0.09	ppb	12.69	3600	
66	Zn	72	1	1.62	1.62	ppb	1.30	3600	
75	As	72	1	2.23	2.23	ppb	3.11	3600	
78	Se	72	1	0.12	0.12	ppb	110.23	3600	
95	Mo	72	1	1.16	1.16	ppb	3.35	3600	
107	Ag	115	1	0.00	0.00	ppb	31.54	3600	
111	Cd	115	1	0.00	0.00	ppb	262.70	3600	
118	Sn	115	1	0.02	0.02	ppb	60.01	3600	
121	Sb	115	1	0.01	0.01	ppb	22.75	3600	
137	Ba	115	1	282.50	282.50	ppb	0.62	3600	
205	Tl	165	1	0.01	0.01	ppb	9.79	3600	
208	Pb	165	1	0.09	0.09	ppb	1.31	3600	
232	Th	165	1	0.04	0.04	ppb	6.46	1000	
238	U	165	1	0.19	0.19	ppb	2.94	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	452032	0.28	511883	88.3	30 - 120	
45	Sc	1	2420185	0.94	2688297	90.0	30 - 120	
72	Ge	1	1481859	2.10	1668870	88.8	30 - 120	
115	In	1	4059521	0.99	4545768	89.3	30 - 120	
165	Ho	1	8247891	0.69	8917520	92.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\182_CCV.D\182_CCV.D#
Date Acquired:	Nov 9 2011 03:39 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.09	ppb	1.64	50	100.2	90 - 110	
51	V	72	1	51.60	ppb	0.71	50	103.2	90 - 110	
52	Cr	72	1	51.13	ppb	1.70	50	102.3	90 - 110	
55	Mn	72	1	50.99	ppb	0.82	50	102.0	90 - 110	
59	Co	72	1	51.12	ppb	2.08	50	102.2	90 - 110	
60	Ni	72	1	49.60	ppb	0.38	50	99.2	90 - 110	
63	Cu	72	1	49.95	ppb	0.85	50	99.9	90 - 110	
66	Zn	72	1	49.79	ppb	0.17	50	99.6	90 - 110	
75	As	72	1	49.94	ppb	0.28	50	99.9	90 - 110	
78	Se	72	1	50.67	ppb	2.41	50	101.3	90 - 110	
95	Mo	72	1	49.63	ppb	1.00	50	99.3	90 - 110	
107	Ag	115	1	49.77	ppb	1.65	50	99.5	90 - 110	
111	Cd	115	1	49.41	ppb	1.08	50	98.8	90 - 110	
118	Sn	115	1	48.16	ppb	0.50	50	96.3	90 - 110	
121	Sb	115	1	48.53	ppb	0.89	50	97.1	90 - 110	
137	Ba	115	1	50.31	ppb	1.29	50	100.6	90 - 110	
205	Tl	165	1	51.36	ppb	0.86	50	102.7	90 - 110	
208	Pb	165	1	50.08	ppb	0.57	50	100.2	90 - 110	
232	Th	165	1	50.98	ppb	0.93	50	102.0	90 - 110	
238	U	165	1	51.74	ppb	0.57	50	103.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	470704	0.73	511883	92.0	30 - 120	
45	Sc	1	2494139	0.82	2688297	92.8	30 - 120	
72	Ge	1	1548741	0.32	1668870	92.8	30 - 120	
115	In	1	4313322	1.14	4545768	94.9	30 - 120	
165	Ho	1	8497951	0.79	8917520	95.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\183_CCB.D\183_CCB.D#
Date Acquired:	Nov 9 2011 03:42 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.006	ppb	258.15	1.00	
51	V	72	1	0.004	ppb	502.56	1.00	
52	Cr	72	1	-0.002	ppb	1337.70	1.00	
55	Mn	72	1	0.021	ppb	22.30	1.00	
59	Co	72	1	0.006	ppb	4.47	1.00	
60	Ni	72	1	-0.025	ppb	11.85	1.00	
63	Cu	72	1	0.009	ppb	80.21	1.00	
66	Zn	72	1	-0.024	ppb	23.07	1.00	
75	As	72	1	-0.002	ppb	533.23	1.00	
78	Se	72	1	0.042	ppb	282.83	1.00	
95	Mo	72	1	0.001	ppb	759.22	1.00	
107	Ag	115	1	0.012	ppb	31.74	1.00	
111	Cd	115	1	0.002	ppb	488.67	1.00	
118	Sn	115	1	-0.005	ppb	21.46	1.00	
121	Sb	115	1	0.016	ppb	19.05	1.00	
137	Ba	115	1	0.026	ppb	15.66	1.00	
205	Tl	165	1	0.020	ppb	13.89	1.00	
208	Pb	165	1	0.009	ppb	9.97	1.00	
232	Th	165	1	0.051	ppb	7.95	1.00	
238	U	165	1	0.010	ppb	4.25	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	467131	0.55	511883	91.3	30 - 120	
45	Sc	1	2492413	0.79	2688297	92.7	30 - 120	
72	Ge	1	1574009	1.63	1668870	94.3	30 - 120	
115	In	1	4311366	1.10	4545768	94.8	30 - 120	
165	Ho	1	8524186	1.05	8917520	95.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\184SMPL.D\184SMPL.D#
Date Acquired:	Nov 9 2011 03:45 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-11-a
Misc Info:	
Vial Number:	4210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	26.37	3600	
51	V	72	1	2.13	2.13	ppb	2.07	3600	
52	Cr	72	1	0.03	0.03	ppb	4.91	3600	
55	Mn	72	1	2.72	2.72	ppb	1.27	18000	
59	Co	72	1	0.05	0.05	ppb	9.74	3600	
60	Ni	72	1	0.33	0.33	ppb	4.07	3600	
63	Cu	72	1	0.16	0.16	ppb	8.92	3600	
66	Zn	72	1	1.68	1.68	ppb	2.52	3600	
75	As	72	1	0.44	0.44	ppb	3.50	3600	
78	Se	72	1	1.26	1.26	ppb	23.52	3600	
95	Mo	72	1	0.33	0.33	ppb	8.69	3600	
107	Ag	115	1	0.01	0.01	ppb	33.39	3600	
111	Cd	115	1	0.00	0.00	ppb	457.13	3600	
118	Sn	115	1	-0.01	-0.01	ppb	84.83	3600	
121	Sb	115	1	0.01	0.01	ppb	6.68	3600	
137	Ba	115	1	356.50	356.50	ppb	0.71	3600	
205	Tl	165	1	0.02	0.02	ppb	30.36	3600	
208	Pb	165	1	0.02	0.02	ppb	7.88	3600	
232	Th	165	1	0.03	0.03	ppb	13.56	1000	
238	U	165	1	10.50	10.50	ppb	0.75	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	429519	0.94	511883	83.9	30 - 120	
45	Sc	1	2405506	0.69	2688297	89.5	30 - 120	
72	Ge	1	1447597	0.51	1668870	86.7	30 - 120	
115	In	1	3919463	0.28	4545768	86.2	30 - 120	
165	Ho	1	8003360	0.63	8917520	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\185SMPL.D\185SMPL.D#
Date Acquired:	Nov 9 2011 03:48 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-12-a
Misc Info:	
Vial Number:	4211
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	578.32	3600	
51	V	72	1	0.48	0.48	ppb	10.01	3600	
52	Cr	72	1	0.01	0.01	ppb	64.59	3600	
55	Mn	72	1	324.90	324.90	ppb	1.82	18000	
59	Co	72	1	0.47	0.47	ppb	5.23	3600	
60	Ni	72	1	0.49	0.49	ppb	5.74	3600	
63	Cu	72	1	0.07	0.07	ppb	21.78	3600	
66	Zn	72	1	2.07	2.07	ppb	2.53	3600	
75	As	72	1	2.06	2.06	ppb	1.02	3600	
78	Se	72	1	0.24	0.24	ppb	65.28	3600	
95	Mo	72	1	4.67	4.67	ppb	1.58	3600	
107	Ag	115	1	0.00	0.00	ppb	106.66	3600	
111	Cd	115	1	0.00	0.00	ppb	88.61	3600	
118	Sn	115	1	0.04	0.04	ppb	18.95	3600	
121	Sb	115	1	0.03	0.03	ppb	19.37	3600	
137	Ba	115	1	480.70	480.70	ppb	1.82	3600	
205	Tl	165	1	0.01	0.01	ppb	9.15	3600	
208	Pb	165	1	0.04	0.04	ppb	18.67	3600	
232	Th	165	1	0.01	0.01	ppb	6.98	1000	
238	U	165	1	1.74	1.74	ppb	1.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	436638	0.88	511883	85.3	30 - 120	
45	Sc	1	2405130	0.55	2688297	89.5	30 - 120	
72	Ge	1	1438329	1.13	1668870	86.2	30 - 120	
115	In	1	3954536	0.31	4545768	87.0	30 - 120	
165	Ho	1	8036430	0.37	8917520	90.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\186SMPL.D\186SMPL.D#
Date Acquired:	Nov 9 2011 03:51 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-13-a
Misc Info:	
Vial Number:	4212
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	5.20	3600	
51	V	72	1	0.16	0.16	ppb	5.75	3600	
52	Cr	72	1	0.12	0.12	ppb	16.40	3600	
55	Mn	72	1	138.90	138.90	ppb	1.60	18000	
59	Co	72	1	0.22	0.22	ppb	7.90	3600	
60	Ni	72	1	0.46	0.46	ppb	9.51	3600	
63	Cu	72	1	0.31	0.31	ppb	2.95	3600	
66	Zn	72	1	3.01	3.01	ppb	0.61	3600	
75	As	72	1	4.30	4.30	ppb	0.72	3600	
78	Se	72	1	0.26	0.26	ppb	39.50	3600	
95	Mo	72	1	4.02	4.02	ppb	1.92	3600	
107	Ag	115	1	0.00	0.00	ppb	39.46	3600	
111	Cd	115	1	0.01	0.01	ppb	131.28	3600	
118	Sn	115	1	0.08	0.08	ppb	21.83	3600	
121	Sb	115	1	0.20	0.20	ppb	3.46	3600	
137	Ba	115	1	336.10	336.10	ppb	0.66	3600	
205	Tl	165	1	0.01	0.01	ppb	15.77	3600	
208	Pb	165	1	0.09	0.09	ppb	3.18	3600	
232	Th	165	1	0.05	0.05	ppb	4.47	1000	
238	U	165	1	2.43	2.43	ppb	1.54	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	441618	2.18	511883	86.3	30 - 120	
45	Sc	1	2404187	1.27	2688297	89.4	30 - 120	
72	Ge	1	1470899	0.88	1668870	88.1	30 - 120	
115	In	1	4043567	0.57	4545768	89.0	30 - 120	
165	Ho	1	8204240	1.18	8917520	92.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\187SMPL.D\187SMPL.D#
Date Acquired:	Nov 9 2011 03:54 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-14-a
Misc Info:	
Vial Number:	4301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	110.95	3600	
51	V	72	1	0.31	0.31	ppb	0.70	3600	
52	Cr	72	1	0.12	0.12	ppb	2.24	3600	
55	Mn	72	1	300.10	300.10	ppb	1.02	18000	
59	Co	72	1	0.47	0.47	ppb	1.43	3600	
60	Ni	72	1	0.55	0.55	ppb	8.77	3600	
63	Cu	72	1	0.17	0.17	ppb	2.75	3600	
66	Zn	72	1	1.91	1.91	ppb	1.42	3600	
75	As	72	1	1.17	1.17	ppb	2.38	3600	
78	Se	72	1	0.26	0.26	ppb	74.73	3600	
95	Mo	72	1	1.11	1.11	ppb	5.75	3600	
107	Ag	115	1	0.00	0.00	ppb	51.04	3600	
111	Cd	115	1	0.00	0.00	ppb	390.43	3600	
118	Sn	115	1	0.03	0.03	ppb	26.23	3600	
121	Sb	115	1	0.01	0.01	ppb	23.25	3600	
137	Ba	115	1	618.60	618.60	ppb	1.08	3600	
205	Tl	165	1	0.01	0.01	ppb	5.64	3600	
208	Pb	165	1	0.05	0.05	ppb	3.26	3600	
232	Th	165	1	0.02	0.02	ppb	10.69	1000	
238	U	165	1	0.48	0.48	ppb	0.23	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	425913	1.18	511883	83.2	30 - 120	
45	Sc	1	2363681	1.14	2688297	87.9	30 - 120	
72	Ge	1	1398801	0.34	1668870	83.8	30 - 120	
115	In	1	3864577	1.05	4545768	85.0	30 - 120	
165	Ho	1	7851693	0.42	8917520	88.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\188SMPL.D\188SMPL.D#
Date Acquired:	Nov 9 2011 03:57 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-16-a
Misc Info:	
Vial Number:	4302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	227.48	3600	
51	V	72	1	0.20	0.20	ppb	7.51	3600	
52	Cr	72	1	0.01	0.01	ppb	42.06	3600	
55	Mn	72	1	150.10	150.10	ppb	0.97	18000	
59	Co	72	1	0.36	0.36	ppb	4.09	3600	
60	Ni	72	1	0.30	0.30	ppb	16.51	3600	
63	Cu	72	1	0.08	0.08	ppb	2.66	3600	
66	Zn	72	1	2.10	2.10	ppb	2.54	3600	
75	As	72	1	1.10	1.10	ppb	4.78	3600	
78	Se	72	1	0.05	0.05	ppb	417.13	3600	
95	Mo	72	1	0.70	0.70	ppb	2.12	3600	
107	Ag	115	1	0.00	0.00	ppb	33.06	3600	
111	Cd	115	1	0.00	0.00	ppb	487.74	3600	
118	Sn	115	1	0.01	0.01	ppb	24.00	3600	
121	Sb	115	1	0.01	0.01	ppb	21.55	3600	
137	Ba	115	1	505.30	505.30	ppb	1.44	3600	
205	Tl	165	1	0.01	0.01	ppb	10.89	3600	
208	Pb	165	1	0.02	0.02	ppb	5.23	3600	
232	Th	165	1	0.00	0.00	ppb	27.38	1000	
238	U	165	1	3.03	3.03	ppb	0.23	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	428691	1.11	511883	83.7	30 - 120	
45	Sc	1	2352792	1.89	2688297	87.5	30 - 120	
72	Ge	1	1426925	1.16	1668870	85.5	30 - 120	
115	In	1	3922551	0.62	4545768	86.3	30 - 120	
165	Ho	1	8014279	0.40	8917520	89.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\189SMPL.D\189SMPL.D#
Date Acquired: Nov 9 2011 04:00 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-17-a
Misc Info:
Vial Number: 4303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	50.96	3600	
51	V	72	1	0.54	0.54	ppb	1.11	3600	
52	Cr	72	1	0.15	0.15	ppb	9.75	3600	
55	Mn	72	1	250.10	250.10	ppb	0.60	18000	
59	Co	72	1	0.61	0.61	ppb	1.90	3600	
60	Ni	72	1	0.99	0.99	ppb	5.06	3600	
63	Cu	72	1	0.13	0.13	ppb	7.24	3600	
66	Zn	72	1	2.24	2.24	ppb	0.32	3600	
75	As	72	1	8.83	8.83	ppb	0.11	3600	
78	Se	72	1	0.43	0.43	ppb	26.66	3600	
95	Mo	72	1	4.88	4.88	ppb	1.46	3600	
107	Ag	115	1	0.00	0.00	ppb	52.93	3600	
111	Cd	115	1	0.01	0.01	ppb	39.24	3600	
118	Sn	115	1	0.01	0.01	ppb	97.05	3600	
121	Sb	115	1	0.39	0.39	ppb	6.21	3600	
137	Ba	115	1	240.00	240.00	ppb	0.76	3600	
205	Tl	165	1	0.01	0.01	ppb	7.08	3600	
208	Pb	165	1	0.14	0.14	ppb	2.93	3600	
232	Th	165	1	0.06	0.06	ppb	2.68	1000	
238	U	165	1	8.43	8.43	ppb	0.22	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	403908	0.33	511883	78.9	30 - 120	
45	Sc	1	2223024	1.86	2688297	82.7	30 - 120	
72	Ge	1	1377674	0.51	1668870	82.6	30 - 120	
115	In	1	3759832	0.37	4545768	82.7	30 - 120	
165	Ho	1	7748314	0.78	8917520	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\190SMPL.D\190SMPL.D#
Date Acquired: Nov 9 2011 04:03 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-18-a
Misc Info:
Vial Number: 4304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	42.64	3600	
51	V	72	1	1.21	1.21	ppb	0.96	3600	
52	Cr	72	1	0.05	0.05	ppb	36.67	3600	
55	Mn	72	1	452.50	452.50	ppb	0.15	18000	
59	Co	72	1	1.58	1.58	ppb	0.75	3600	
60	Ni	72	1	2.24	2.24	ppb	2.66	3600	
63	Cu	72	1	0.22	0.22	ppb	6.18	3600	
66	Zn	72	1	1.63	1.63	ppb	1.45	3600	
75	As	72	1	0.67	0.67	ppb	6.93	3600	
78	Se	72	1	0.16	0.16	ppb	141.70	3600	
95	Mo	72	1	0.18	0.18	ppb	7.39	3600	
107	Ag	115	1	0.00	0.00	ppb	21.23	3600	
111	Cd	115	1	0.03	0.03	ppb	38.91	3600	
118	Sn	115	1	0.00	0.00	ppb	90.94	3600	
121	Sb	115	1	0.02	0.02	ppb	13.19	3600	
137	Ba	115	1	94.65	94.65	ppb	0.47	3600	
205	Tl	165	1	0.01	0.01	ppb	7.21	3600	
208	Pb	165	1	0.05	0.05	ppb	6.09	3600	
232	Th	165	1	0.01	0.01	ppb	20.58	1000	
238	U	165	1	4.95	4.95	ppb	0.59	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	403554	1.26	511883	78.8	30 - 120	
45	Sc	1	2245016	0.68	2688297	83.5	30 - 120	
72	Ge	1	1369668	0.57	1668870	82.1	30 - 120	
115	In	1	3812499	0.30	4545768	83.9	30 - 120	
165	Ho	1	7727248	0.27	8917520	86.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\191SMPL.D\191SMPL.D#
Date Acquired: Nov 9 2011 04:06 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-19-a
Misc Info:
Vial Number: 4305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	103.84	3600	
51	V	72	1	0.53	0.53	ppb	6.09	3600	
52	Cr	72	1	0.15	0.15	ppb	14.67	3600	
55	Mn	72	1	249.60	249.60	ppb	0.76	18000	
59	Co	72	1	0.63	0.63	ppb	3.88	3600	
60	Ni	72	1	0.73	0.73	ppb	4.94	3600	
63	Cu	72	1	0.12	0.12	ppb	6.57	3600	
66	Zn	72	1	2.01	2.01	ppb	1.89	3600	
75	As	72	1	8.79	8.79	ppb	2.51	3600	
78	Se	72	1	0.14	0.14	ppb	108.59	3600	
95	Mo	72	1	4.67	4.67	ppb	1.54	3600	
107	Ag	115	1	0.00	0.00	ppb	26.42	3600	
111	Cd	115	1	0.01	0.01	ppb	33.93	3600	
118	Sn	115	1	0.01	0.01	ppb	67.19	3600	
121	Sb	115	1	0.38	0.38	ppb	3.24	3600	
137	Ba	115	1	237.40	237.40	ppb	2.75	3600	
205	Tl	165	1	0.01	0.01	ppb	11.17	3600	
208	Pb	165	1	0.10	0.10	ppb	1.63	3600	
232	Th	165	1	0.05	0.05	ppb	8.92	1000	
238	U	165	1	8.41	8.41	ppb	1.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	396154	0.45	511883	77.4	30 - 120	
45	Sc	1	2236878	1.18	2688297	83.2	30 - 120	
72	Ge	1	1354643	0.51	1668870	81.2	30 - 120	
115	In	1	3731643	2.02	4545768	82.1	30 - 120	
165	Ho	1	7691388	1.01	8917520	86.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\192_CCV.D\192_CCV.D#
Date Acquired: Nov 9 2011 04:09 am
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.92	ppb	2.72	50	101.8	90 - 110	
51	V	72	1	50.42	ppb	1.13	50	100.8	90 - 110	
52	Cr	72	1	50.13	ppb	0.60	50	100.3	90 - 110	
55	Mn	72	1	50.61	ppb	1.02	50	101.2	90 - 110	
59	Co	72	1	51.40	ppb	0.85	50	102.8	90 - 110	
60	Ni	72	1	49.61	ppb	0.59	50	99.2	90 - 110	
63	Cu	72	1	49.10	ppb	0.26	50	98.2	90 - 110	
66	Zn	72	1	49.59	ppb	0.37	50	99.2	90 - 110	
75	As	72	1	50.10	ppb	0.98	50	100.2	90 - 110	
78	Se	72	1	50.29	ppb	0.63	50	100.6	90 - 110	
95	Mo	72	1	49.92	ppb	1.04	50	99.8	90 - 110	
107	Ag	115	1	49.70	ppb	2.57	50	99.4	90 - 110	
111	Cd	115	1	48.81	ppb	1.67	50	97.6	90 - 110	
118	Sn	115	1	47.30	ppb	1.62	50	94.6	90 - 110	
121	Sb	115	1	48.28	ppb	2.15	50	96.6	90 - 110	
137	Ba	115	1	49.97	ppb	3.03	50	99.9	90 - 110	
205	Tl	165	1	52.03	ppb	0.52	50	104.1	90 - 110	
208	Pb	165	1	50.22	ppb	2.15	50	100.4	90 - 110	
232	Th	165	1	52.05	ppb	1.72	50	104.1	90 - 110	
238	U	165	1	51.82	ppb	2.30	50	103.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	442214	0.79	511883	86.4	30 - 120	
45	Sc	1	2385683	1.58	2688297	88.7	30 - 120	
72	Ge	1	1488038	0.60	1668870	89.2	30 - 120	
115	In	1	4240661	2.62	4545768	93.3	30 - 120	
165	Ho	1	8309642	1.41	8917520	93.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\193_CCB.D\193_CCB.D#
Date Acquired: Nov 9 2011 04:11 am
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.002	ppb	2.33	1.00	
51	V	72	1	0.021	ppb	28.08	1.00	
52	Cr	72	1	0.002	ppb	720.95	1.00	
55	Mn	72	1	0.025	ppb	23.78	1.00	
59	Co	72	1	0.008	ppb	75.38	1.00	
60	Ni	72	1	-0.024	ppb	50.23	1.00	
63	Cu	72	1	0.011	ppb	17.39	1.00	
66	Zn	72	1	-0.033	ppb	6.33	1.00	
75	As	72	1	-0.001	ppb	707.65	1.00	
78	Se	72	1	0.295	ppb	93.52	1.00	
95	Mo	72	1	0.007	ppb	48.14	1.00	
107	Ag	115	1	0.011	ppb	30.69	1.00	
111	Cd	115	1	0.003	ppb	130.53	1.00	
118	Sn	115	1	-0.005	ppb	237.72	1.00	
121	Sb	115	1	0.015	ppb	8.44	1.00	
137	Ba	115	1	0.033	ppb	34.07	1.00	
205	Tl	165	1	0.021	ppb	9.59	1.00	
208	Pb	165	1	0.008	ppb	23.95	1.00	
232	Th	165	1	0.055	ppb	8.53	1.00	
238	U	165	1	0.012	ppb	7.26	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	438499	0.33	511883	85.7	30 - 120	
45	Sc	1	2391076	1.92	2688297	88.9	30 - 120	
72	Ge	1	1503556	0.14	1668870	90.1	30 - 120	
115	In	1	4177748	1.79	4545768	91.9	30 - 120	
165	Ho	1	8189159	0.32	8917520	91.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

95431 – 6020 water
95436 – soil

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

ICP/MS Technical Data Review Checklist

Lab Project ID Number(s): see attached cover sheet   Check Method/SOP Used: 6020/DV-MT-0018   200.8/DV-MT-0002

	Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments & Samples Affected
Tune						
1.	Tune solution analyzed min. of 4 times for 6020 or 5 times for 200.8?	✓			✓	
2.	Tune RSD <5%?	✓			✓	
2.	Resolution ≤ 0.9 AMU full width at 10% peak height? **NOTE**: This also satisfies 200.8, 1.0 AMU at 5% peak height	✓			✓	
Initial Calibration						
1.	Done with a minimum of 3 integrations of a high standard and blank?	✓			✓	
2.	ICV/CCV run at beginning of run, 10% frequency, and end of run? Results with 10% of expected value?	✓			✓	
3.	ICB/CCB run at beginning of run, 10% frequency, and end of run? Results +/- RL	✓			✓	
4.	ICSA/AB analyzed at beginning of run and every 12 hours and results 80- 120% of TV?	✓			✓	
5.	RL Std analyzed at beginning of run and results +/- 50% of TV(for AFCEE 4.0, DoD V3 +/- 20% of true value)?	✓			✓	
Client Samples & QC Sample Results						
1.	Were all samples within linear range, ≤ 90% of LDR for 200.8?	✓			✓	
2.	Dilutions due to target elements?____ Dilutions for other reasons? ✓	✓			✓	
3.	All reported results bracketed by in control QC?	✓			✓	
4.	All 6020 internal standards for all analyses 30-120% of intensities in blank or all 200.8 internal standards 60-125%?	✓			✓	
5.	Was a 5X serial dilution analyzed for 6020 and, if so, are results ± 10% of original result, if original ≥ 100x MDL?	✓			✓	
6.	LCS included in batch and within QC limits?	✓			✓	
7.	Method blank included and <1/2RL?	✓			✓	
8.	MS and MSD included in batch?	✓			✓	
9.	PDS analyzed and recovery 75-125%?	✓			✓	
10.	Manual calculations documented properly and checked?	✓			✓	
11.	Are non-conformances documented on an NCM?	✓			✓	
12.	Is the appropriate raw data included?	✓			✓	
13.	Are all results manually entered into LIMS verified? Are all electronic data files archived to the appropriate network locations?	✓			✓	
14.	Were special client requirements met?	✓			✓	

1st Level Reviewer: [signature]   Date: 11/9/11

2nd Level Reviewer: [signature]   Date: 11/9/11

L:\QA\Edit\FORMS\Data Review\ICPMS   Rev. 2, 6/12/08

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Batch Number: 93880 Batch Start Date: 11/07/11 14:00 Batch Analyst: Mooney, Joseph C

Batch Method: 3050B Batch End Date: 11/07/11 19:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00054	MS CALSTD-2 00053		
MB 280-93880/1		3050B, 6020A		1.05 g	100 mL				
LCS 280-93880/2		3050B, 6020A		1.07 g	100 mL	1 mL	1 mL		
280-22000-A-1	CP32 SD001	3050B, 6020A	T	1.05 g	100 mL				
280-22000-A-1 MS	CP32 SD001	3050B, 6020A	T	1.03 g	100 mL	1 mL	1 mL		
280-22000-A-1 MSD	CP32 SD001	3050B, 6020A	T	1.05 g	100 mL	1 mL	1 mL		
280-22000-A-2	CP33 SD002	3050B, 6020A	T	1.06 g	100 mL				
280-22000-A-3	CP34 SD003	3050B, 6020A	T	1.05 g	100 mL				
280-22000-A-4	CP35 SD004	3050B, 6020A	T	1.20 g	100 mL				
280-22000-A-5	CP36 SD005	3050B, 6020A	T	1.02 g	100 mL				
280-22000-A-6	CP37 SD006	3050B, 6020A	T	1.11 g	100 mL				
280-22000-A-7	CP38 SD007	3050B, 6020A	T	1.00 g	100 mL				
280-22000-A-8	CP39 SD008	3050B, 6020A	T	1.16 g	100 mL				
280-22000-A-9	CP40 SD009	3050B, 6020A	T	1.03 g	100 mL				
280-22000-A-10	CP41 SD010	3050B, 6020A	T	1.02 g	100 mL				
280-22000-A-11	CP41 SD011	3050B, 6020A	T	1.05 g	100 mL				
280-22000-A-12	CP42 SD012	3050B, 6020A	T	1.13 g	100 mL				
280-22000-A-13	CP43 SD013	3050B, 6020A	T	1.10 g	100 mL				

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Batch Number: 93880   Batch Start Date: 11/07/11 14:00   Batch Analyst: Mooney, Joseph C

Batch Method: 3050B   Batch End Date: 11/07/11 19:00

Batch Notes	
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	09
Hot Block ID number	01 F-5
Oven, Bath or Block Temperature 1	91 Degrees C
Oven, Bath or Block Temperature 2	91 Degrees C
Pipette ID	MET-007
Temperature	91 Degrees C
ID number of the thermometer	908001800
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	91 Celsius
Uncorrected Temperature 2	91 Degrees C

Basis	Basis Description
T	Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Batch Number: 94817   Batch Start Date: 11/08/11 05:15   Batch Analyst: Ivey, Crystal L

Batch Method: 3050B   Batch End Date: 11/08/11 10:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00054	MS CALSTD-2 00053		
MB 280-94817/1		3050B, 6020A		1.02 g	100 mL				
LCS 280-94817/2		3050B, 6020A		1.18 g	100 mL	1 mL	1 mL		
280-22000-A-18	MG35 SB123A	3050B, 6020A	T	1.08 g	100 mL				
280-22000-A-19	MG35 SB124A	3050B, 6020A	T	1.19 g	100 mL				

Batch Notes	
Analyst	CLI
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	09
Hot Block ID number	01
Oven, Bath or Block Temperature 1	92 Degrees C
Pipette ID	MET-007
Temperature	92/D-5 Degrees C
ID number of the thermometer	908001800
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	92 Celsius

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job Number: 280-22000-1

SDG No.:

Project: Martha's Vineyard

Client Sample ID	Lab Sample ID
CP32 SD001	280-22000-1
CP33 SD002	280-22000-2
CP34 SD003	280-22000-3
CP35 SD004	280-22000-4
CP36 SD005	280-22000-5
CP37 SD006	280-22000-6
CP38 SD007	280-22000-7
CP39 SD008	280-22000-8
CP40 SD009	280-22000-9
CP41 SD010	280-22000-10
CP41 SD011	280-22000-11
CP42 SD012	280-22000-12
CP43 SD013	280-22000-13
MG35 SB123A	280-22000-18
MG35 SB124A	280-22000-19

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job Number: 280-22000-1

SDG Number:

Matrix: Solid   Instrument ID: NOEQUIP

Method: Moisture   LOQ Date: 11/01/2009 00:00

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

FORM IX - IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 10/26/2011 07:15   End Date: 10/26/2011 07:15

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			07:15																				
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280-22000-1	1	T	07:15	X	X																		
280-22000-2	1	T	07:15	X	X																		
280-22000-3	1	T	07:15	X	X																		
280-22000-4	1	T	07:15	X	X																		
280-22000-5	1	T	07:15	X	X																		
280-22000-6	1	T	07:15	X	X																		
280-22000-7	1	T	07:15	X	X																		
280-22000-8	1	T	07:15	X	X																		
280-22000-9	1	T	07:15	X	X																		
280-22000-10	1	T	07:15	X	X																		
280-22000-11	1	T	07:15	X	X																		
280-22000-12	1	T	07:15	X	X																		
280-22000-13	1	T	07:15	X	X																		
ZZZZZZ			07:15																				
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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 10/26/2011 07:15 End Date: 10/26/2011 07:15

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 10/26/2011 07:15   End Date: 10/26/2011 07:15

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			07:15																				
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Prep Types

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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 11/03/2011 07:19   End Date: 11/03/2011 14:00

				Analytes																			
Lab Sample ID	D/F	Type	Time	%Sol	Moist																		
ZZZZZZ			07:19																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 11/03/2011 07:19 End Date: 11/03/2011 14:00

Lab Sample ID	D/F	Type	Time	Analytes: %Sol	Moist
ZZZZZZ			07:19		
ZZZZZZ			07:19		
ZZZZZZ			07:19		
ZZZZZZ			07:19		
ZZZZZZ			07:19		
ZZZZZZ			07:19		
ZZZZZZ			07:19		
280-22000-18	1	T	07:19	X	X
280-22000-19	1	T	07:19	X	X
ZZZZZZ			07:19		
ZZZZZZ			07:19		
ZZZZZZ			07:19		
ZZZZZZ			07:19		
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 11/03/2011 07:19   End Date: 11/03/2011 14:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			07:19																				
ZZZZZZ			14:00																				
ZZZZZZ			14:00																				
ZZZZZZ			14:00																				
ZZZZZZ			14:00																				
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ZZZZZZ			14:00																				

Prep Types

T = Total/NA

TestAmerica Denver

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

Wet Chemistry Data Review Checklist For Gravimetric Methods

Test Name/Method #: Moisture **Analysis Date:** 10/26/11

SOP #: DV-WC-0023 **Analyst:** PB **Instrument:** H31422

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
21983, 21985, 21995	S	—	93110	Moisture	
21987, 22000, 21953	↓	↓	↓	↓	
21954, 21955,					

A. Balance, Oven, and DI Water QC Checks	Yes	No	N/A	2nd Level
1. Was the balance calibration verified before and after processing samples and noted in the "Balance Calibration Log" for the date(s) the samples were processed?	✓			✓
2. Was the oven temperature within method requirements and recorded in the "Oven Temperature" logbook for the date(s) the samples were processed?	✓			✓
3. Was the daily conductivity check of the deionized water recorded in the "Conductivity Logbook"?			✓	✓
B. Method Requirements				
1. If sample is visibly oily, was this noted on the benchsheet?	✓			✓
2. Was final residue weight within minimum/maximum requirements?	✓			✓
3. Were the initial and final drying dates and times recorded on the benchsheet and were all samples dried for at least one hour?	✓			✓
C. Sample Results				
1. TDS/Conductivity ratio or historical data checked?			✓	✓
2. For % Moisture, was the Final Dried Weight < the Initial Pan Weight or is the result greater than 100%?		✓		✓
3. Were sample analyses done within holding time?	✓			✓
4. Were special client requirements met?	✓			✓
5. Were data that were manually transcribed from instrument printouts into TALS verified 100% including significant figures and units?			✓	✓
6. Do the prep and analysis dates in TALS reflect the actual dates? Lots/Dates report checked?	✓			✓
7. STD/True Value information is updated and included?			✓	✓
8. Are raw data copies prepared, scanned, and uploaded?	✓			✓
D. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10 X RL?			✓	✓
2. Method blank < ½ RL or NCM provided?			✓	✓
3. LCS/LCSD run for batch and within QC limits?			✓	✓
4. DUP run for batch and RPD < 20% for samples >5 X RL?	✓			✓

Analyst: Paul Berry **Date:** 10/27/11

Comments:

2nd Level Reviewer : [signature] **Date:** 10/27/11

Comments:

Revision 2.0
5/18/10
QA\Edit\FORMS\Data Review\Gravimetric Review Checklist

TestAmerica Denver

Wet Chemistry Data Review Checklist For Gravimetric Methods

Test Name/Method #: Moisture **Analysis Date:** 11/3/11

SOP #: DV-WC-0023 **Analyst:** PB **Instrument:** H31422

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
22308, 22294, 22303,	S	—	94527	Moisture	
22320, 22000, 22329	↓	↓	↓	↓	

A. Balance, Oven, and DI Water QC Checks	Yes	No	N/A	2nd Level
1. Was the balance calibration verified before and after processing samples and noted in the "Balance Calibration Log" for the date(s) the samples were processed?	✓			✓
2. Was the oven temperature within method requirements and recorded in the "Oven Temperature" logbook for the date(s) the samples were processed?	✓			✓
3. Was the daily conductivity check of the deionized water recorded in the "Conductivity Logbook"?			✓	✓
B. Method Requirements				
1. If sample is visibly oily, was this noted on the benchsheet?	✓			✓
2. Was final residue weight within minimum/maximum requirements?	✓			✓
3. Were the initial and final drying dates and times recorded on the benchsheet and were all samples dried for at least one hour?	✓			✓
C. Sample Results				
1. TDS/Conductivity ratio or historical data checked?			✓	✓
2. For % Moisture, was the Final Dried Weight < the Initial Pan Weight or is the result greater than 100%?		✓		✓
3. Were sample analyses done within holding time?	✓			✓
4. Were special client requirements met?	✓			✓
5. Were data that were manually transcribed from instrument printouts into TALS verified 100% including significant figures and units?			✓	✓
6. Do the prep and analysis dates in TALS reflect the actual dates? Lots/Dates report checked?	✓			✓
7. STD/True Value information is updated and included?			✓	✓
8. Are raw data copies prepared, scanned, and uploaded?	✓			✓
D. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10 X RL?			✓	✓
2. Method blank < ½ RL or NCM provided?			✓	✓
3. LCS/LCSD run for batch and within QC limits?			✓	✓
4. DUP run for batch and RPD < 20% for samples >5 X RL?	✓			✓

Analyst: Paul Berry **Date:** 11/4/11

Comments:

2nd Level Reviewer : [signature] **Date:** 11/4/11

Comments:

Revision 2.0
5/18/10
QA\Edit\FORMS\Data Review\Gravimetric Review Checklist

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-22000-1

SDG No.:

Batch Number: 93110 Batch Start Date: 10/26/11 07:15 Batch Analyst: Berry III, Paul B

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
280-22000-A-1	CP32 SD001	Moisture	T	12	1.27 g	17.74 g	12.50 g		
280-22000-B-2	CP33 SD002	Moisture	T	13	1.27 g	17.02 g	14.16 g		
280-22000-B-3	CP34 SD003	Moisture	T	14	1.28 g	17.31 g	13.20 g		
280-22000-B-4	CP35 SD004	Moisture	T	15	1.27 g	17.87 g	14.75 g		
280-22000-A-5	CP36 SD005	Moisture	T	16	1.28 g	17.03 g	13.38 g		
280-22000-B-6	CP37 SD006	Moisture	T	17	1.28 g	18.04 g	15.20 g		
280-22000-B-7	CP38 SD007	Moisture	T	18	1.27 g	17.89 g	14.46 g		
280-22000-A-8	CP39 SD008	Moisture	T	19	1.28 g	17.76 g	14.56 g		
280-22000-B-9	CP40 SD009	Moisture	T	20	1.27 g	17.54 g	14.77 g		
280-22000-B-10	CP41 SD010	Moisture	T	21	1.27 g	17.20 g	13.87 g		
280-22000-B-11	CP41 SD011	Moisture	T	22	1.27 g	17.56 g	14.96 g		
280-22000-B-12	CP42 SD012	Moisture	T	23	1.27 g	17.12 g	14.06 g		
280-22000-A-13	CP43 SD013	Moisture	T	24	1.28 g	17.36 g	14.25 g		

Batch Notes	
Balance ID	H31422 No Unit
Date samples were placed in the oven	10/26/11
Oven Temp when samples are put in oven	103 Degrees C
Time samples were place in the oven	1230
Date samples were removed from oven	10/27/11
Oven Temp when samples removed from oven	98 Degrees C
Time Samples were removed from oven	0645
Oven ID	D / C
ID number of the thermometer	Moist ove
Uncorrected In Temperature	103 Celsius
Uncorrected Out Temperature	98 Celsius

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-22000-1

SDG No.:

Batch Number: 94527   Batch Start Date: 11/03/11 07:19   Batch Analyst: Berry III, Paul B

Batch Method: Moisture   Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
280-22000-A-18	MG35 SB123A	Moisture	T	50	1.29 g	17.87 g	15.35 g		
280-22000-B-19	MG35 SB124A	Moisture	T	51	1.28 g	17.36 g	15.36 g		

Batch Notes	
Balance ID	H31422 No Unit
Date samples were placed in the oven	11/3/11
Oven Temp when samples are put in oven	103 Degrees C
Time samples were place in the oven	1430
Date samples were removed from oven	11/4/11
Oven Temp when samples removed from oven	101 Degrees C
Time Samples were removed from oven	0640
Oven ID	D
ID number of the thermometer	Moist ove
Uncorrected In Temperature	103 Celsius
Uncorrected Out Temperature	101 Celsius

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

2-0

amec

ENVIRONMENT & INFRASTRUCTURE

Chain of Custody Record/Analysis Request

000404

Temperature of samples upon lab arrival: ______

Issuing AMEC Office: Knoxville

AMEC Office Address: 10239 Technology Drive, Knoxville, TN 37932

Project Name: Marthas Vineyard RI

Job No.: 562910000

Project Manager: D. Sharp

Phone No.: (865) 671-6774

Sampler (s): Norm Barnes

Laboratory Name/Address: Test America Denver, 4955 Yarrow ST, Arvada, CO 80002

Contact: Joni Blankfield

Phone: 303 736 0100

Fax:

Sample ID	Station ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	8321 B	6020A									NOTES
						Preservative (HCl, HNO_3, Ice, etc.)											
SD001	CP32	0745	10/22/11	reg	sed	0"-6"	1	1									
SD002	CP33	0810					1	1									
SD003	CP34	0755					1	1									
SD004	CP35	0830					1	1									
SD005	CP36	0900					1	1									
SD006	CP37	0930					1	1									
SD007	CP38	0940					1	1									
SD008	CP39	0950					1	1									
SD009	CP40	1020					1	1									
SD010	CP41	1010					1	1									
SD011	CP41	1010					1	1									
SD012	CP42	1030					1	1									
SD013	CP43	1040					1	1									
						Total # of Containers	13	13									

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: [signature]	Signature: [signature]	Signature:	
Printed Name: Norm Barnes	Printed Name: Lindsay Paulsen	Printed Name:	
Firm: AMEC	Firm: TAD	Firm:	
Date/Time: 10/22/11	Date/Time: 10/25/11 0830	Date/Time:	

amec

ENVIRONMENT & INFRASTRUCTURE

11.6 1R 4/ 10/25 Ia Melted

Chain of Custody Record/Analysis Request

000295

Temperature of samples upon lab arrival: ______

Issuing AMEC Office: Knoxville
AMEC Office Address: 10239 Technology Drive, Knoxville, TN 37932

Project Name: Martha's Vineyard RI | Job No.: 562910000
Project Manager: D. Sharp | Phone No.: (865) 671-6774/865 603 9863
Sampler (s): N. Barnes, B. Owens

Laboratory Name/Address: Test America Denver, 4955 Yarrow St, Arvada, CO 80002
Contact: Joni Blankfield
Phone: 303 736 0100
Fax:

Sample ID	Station ID	Time Collected	Date Collected	Sample Type (reg, eqb, ms, msd)	Matrix (soil, sed, gw, sw)	Depth	8321B	6020A									NOTES
~~SD015~~						Preservative (HCl, HNO_3, Ice, etc.)	ice	ice									
SD015	CP45	0940	10/20/11	reg	sed	0"-12"	1	1									
SD016	CP45	0940					1	1									
SD014	CP44	0950					1	1									
SD017	CP46	1010					1	1									
SB123a	MG35	1115			soil	2"-12"	1	1									
SB124a	MG35	1125			soil	12"-18"	1	1									
MV001	NA	1130	10/21/11	IDW	W	NA	1	1									
						Total # of Containers											

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	Comments:
Signature: [signature]	Signature: [signature]	Signature:	
Printed Name: N. Barnes	Printed Name: Lyndsay Paulsen	Printed Name:	
Firm: AMEC	Firm: TAD	Firm:	
Date/Time: 10/22/11 1500	Date/Time: 10/25/11 0830	Date/Time:	

Login Sample Receipt Checklist

Client: UXB International, Inc. Job Number: 280-22000-1

Login Number: 22000 **List Source: TestAmerica Denver**
List Number: 1
Creator: Paulsen, Lindsay T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	11.6C
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	One of two jars for sample SB123A not received.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 280-22438-1

Job Description: Martha's Vineyard RI

For:
UXB International, Inc.
169R Main Street, Second Floor
Flemington, NJ 08822

Attention: Mr. Michael Warminsky

Approved for release.
Katie Abbott
Project Mgmt. Assistant
11/28/2011 11:35 AM

Designee for
Joni S Blankfield
Project Manager II
joni.blankfield@testamericainc.com
11/28/2011

cc: Ms. Donna Sharp

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

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CASE NARRATIVE
Client: UXB International, Inc.
Project: Martha's Vineyard RI
Report Number: 280-22438-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 11/04/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 3.8°C, 3.9°C, 2.4°C, and 3.4°C.

One of the two liter ambers submitted for sample MG38 GW007 (280-22438-3) was received at the laboratory broken. Sufficient volume remained to proceed with the requested analysis. The client was notified on November 7, 2011.

A sample ID discrepancy was noted between the information listed on the Chain of Custody and the sample container labels for sample 280-22438-14. The Chain of Custody lists the sample ID as CP31 GW005 and the container labels list the sample ID as CP29 GW005. The laboratory was able to determine the identity of the sample based on the matching collection time and date, and it accounted for the missing volume for sample CP31 GW005. The client was notified on November 7, 2011.

EXPLOSIVES SOLID MATRIX
Samples TP23 SB132 (280-22438-9), TP24 SB133 (280-22438-10), CP44 SD014 (280-22438-15), CP45 SD015 (280-22438-16), CP45 SD016 (280-22438-17) and CP46 SD017 (280-22438-18) were analyzed for explosives in accordance with EPA SW-846 Method 8321B. The samples were leached on 11/05/2011, prepared on 11/10/2011 and analyzed on 11/14/2011.

All samples were air dried and sieved per the procedure; however, the samples contained material that would not pass through the sieve. This material was removed and not extracted. The material appeared to be rocks and/or vegetation.

No other difficulties were encountered during the explosives analyses.

All other quality control parameters were within the acceptance limits.

EXPLOSIVES WATER MATRIX
Samples MG37 GW006 (280-22438-1), MG37 GW010 (280-22438-2), MG38 GW007 (280-22438-3), MG40 GW009 (280-22438-4), TP02 GW011 (280-22438-5), TP04 GW013 (280-22438-6), TP04 GW014 (280-22438-7), TP03 GW012 (280-22438-8), CP29 GW002 (280-22438-12), CP31 GW004 (280-22438-13), CP31 GW005 (280-22438-14) and CP47 GW015 (280-22438-19) were analyzed for explosives in accordance with EPA SW-846 Method 8321B. The samples were prepared on 11/07/2011 and analyzed on 11/10/2011.

Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with prep-batch 280-95077. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Due to sample matrix effect on the HMX13C4 and RDX13C3 internal standards (ISTD), a dilution was required for samples MG37 GW010 (280-22438-2)[5X], TP02 GW011 (280-22438-5)[5X], TP04 GW013 (280-22438-6)[5X], TP04 GW014 (280-22438-7)[5X], CP29 GW002 (280-22438-12)[5X], CP31 GW004 (280-22438-13)[10X], CP31 GW005 (280-22438-14)[10X] and CP47 GW015 (280-22438-19) [5X] The ISTD's were below control limits (50-200%) in the undiluted analysis. Elevated LOQ, LOD and DL's are provided for HMX and/or RDX.

sample#	HMX13C4 %R	RDX13C3 %R
22438-2	43%	
22438-5	44%	
22438-6	35%	
22438-7	41%	
22438-11	19%	44%
22438-12	33%	
22438-13	33%	
22438-14	32%	35%
22438-19	49%	

No other difficulties were encountered during the explosives analyses.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS) SOLID MATRIX
Samples TP23 SB132 (280-22438-9), TP24 SB133 (280-22438-10), CP44 SD014 (280-22438-15), CP45 SD015 (280-22438-16), CP45 SD016 (280-22438-17) and CP46 SD017 (280-22438-18) were analyzed for metals (ICPMS) in accordance with SW846 6020A. The samples were prepared on 11/15/2011 and analyzed on 11/16/2011.

The interference check standard solution (ICSA) associated with analytical batch 280-96709 was above the DoD acceptance criteria for antimony (> limit of detection (LOD)). It is believed that the solution contains trace impurities of this element and the result is not due to matrix interference. The result is consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged "Q" for this analyte.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 280-96709, performed on sample TP23 SB132 (280-22438-9) were outside control limits for antimony (56%/51%) and zinc (83%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly. The parent sample for the serial dilution (SD) had antimony and copper concentrations less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recoveries for this batch were within the established control limits for these metals.

Copper and nickel were detected in method blank MB 280-96043/1-A at levels that were above the detection limit but below the LOQ. The values should be considered estimates, and have been flagged "J". However, because the result concentration was less than ½ the LOQ, no corrective action was necessary.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICPMS) WATER MATRIX
Samples MG37 GW006 (280-22438-1), MG37 GW010 (280-22438-2), MG38 GW007 (280-22438-3), MG40 GW009 (280-22438-4), TP02 GW011 (280-22438-5), TP04 GW013 (280-22438-6), TP04 GW014 (280-22438-7), TP03 GW012 (280-22438-8), CP29 GW002 (280-22438-12), CP31 GW004 (280-22438-13), CP31 GW005 (280-22438-14) and CP47 GW015 (280-22438-19) were analyzed for dissolved metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 11/15/2011 and analyzed on 11/16/2011.

The interference check standard solution (ICSA) associated with analytical batch 280-96706 was above the DoD acceptance criteria for antimony (> limit of detection (LOD)). It is believed that the solution contains trace impurities of this element and the result is not due to matrix interference. The result is consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged "Q" for this analyte.

The parent sample for the serial dilution (SD) had antimony, copper, lead, nickel, and zinc concentrations less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recoveries for this batch were within the established control limits for these metals.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS
No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Instrument ID: LC_LCMS4 Analysis Batch Number: 96232

Lab Sample ID: 280-22438-9 MSD Client Sample ID: TP23 SB132 MSD

Date Analyzed: 11/14/11 13:17 Lab File ID: ex41K10118.d GC Column: IonPac ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene	7.26	Baseline	meyera	11/14/11 15:08

8321B

SAMPLE SUMMARY

Client: UXB International, Inc. Job Number: 280-22438-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-22438-1	MG37 GW006	Water	11/02/2011 0850	11/04/2011 0930
280-22438-2	MG37 GW010	Water	11/02/2011 0850	11/04/2011 0930
280-22438-3	MG38 GW007	Water	11/02/2011 1008	11/04/2011 0930
280-22438-4	MG40 GW009	Water	11/02/2011 1049	11/04/2011 0930
280-22438-5	TP02 GW011	Water	11/02/2011 1317	11/04/2011 0930
280-22438-6	TP04 GW013	Water	11/02/2011 1455	11/04/2011 0930
280-22438-7	TP04 GW014	Water	11/02/2011 1455	11/04/2011 0930
280-22438-8	TP03 GW012	Water	11/02/2011 1533	11/04/2011 0930
280-22438-9	TP23 SB132	Solid	11/02/2011 1255	11/04/2011 0930
280-22438-10	TP24 SB133	Solid	11/02/2011 1305	11/04/2011 0930
280-22438-12	CP29 GW002	Water	11/01/2011 1305	11/04/2011 0930
280-22438-13	CP31 GW004	Water	11/01/2011 1456	11/04/2011 0930
280-22438-14	CP31 GW005	Water	11/01/2011 1456	11/04/2011 0930
280-22438-15	CP44 SD014	Solid	11/01/2011 1601	11/04/2011 0930
280-22438-16	CP45 SD015	Solid	11/01/2011 1550	11/04/2011 0930
280-22438-17	CP45 SD016	Solid	11/01/2011 1550	11/04/2011 0930
280-22438-18	CP46 SD017	Solid	11/01/2011 1540	11/04/2011 0930
280-22438-19	CP47 GW015	Water	11/01/2011 1315	11/04/2011 0930

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc.　　　　Job Number: 280-22438-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-22438-1	**MG37 GW006**					
Dissolved						
Copper		1.5	J	2.0	ug/L	6020A
Nickel		12		3.0	ug/L	6020A
Zinc		7.4	J	20	ug/L	6020A
280-22438-2	**MG37 GW010**					
2-Nitrotoluene		0.15		0.096	ug/L	8321B
3-Nitrotoluene		0.026	J	0.096	ug/L	8321B
4-Nitrotoluene		0.17		0.096	ug/L	8321B
Dissolved						
Copper		0.99	J	2.0	ug/L	6020A
Nickel		9.0		3.0	ug/L	6020A
Zinc		4.3	J	20	ug/L	6020A
280-22438-3	**MG38 GW007**					
Dissolved						
Nickel		7.4		3.0	ug/L	6020A
Zinc		5.8	J	20	ug/L	6020A
280-22438-4	**MG40 GW009**					
Dissolved						
Copper		0.57	J	2.0	ug/L	6020A
Nickel		5.5		3.0	ug/L	6020A
Zinc		9.0	J	20	ug/L	6020A
280-22438-5	**TP02 GW011**					
Dissolved						
Nickel		6.5		3.0	ug/L	6020A
Zinc		12	J	20	ug/L	6020A
280-22438-6	**TP04 GW013**					
Dissolved						
Antimony		0.074	J Q	6.0	ug/L	6020A
Nickel		13		3.0	ug/L	6020A
Zinc		4.0	J	20	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-22438-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-22438-7	**TP04 GW014**					
Dissolved						
Antimony		0.073	J Q	6.0	ug/L	6020A
Nickel		12		3.0	ug/L	6020A
Zinc		4.2	J	20	ug/L	6020A
280-22438-8	**TP03 GW012**					
Dissolved						
Nickel		4.5		3.0	ug/L	6020A
Zinc		5.7	J	20	ug/L	6020A
280-22438-9	**TP23 SB132**					
Antimony		0.068	Q J	0.20	mg/Kg	6020A
Copper		1.4	J	2.5	mg/Kg	6020A
Lead		15		0.10	mg/Kg	6020A
Nickel		3.7		0.36	mg/Kg	6020A
Zinc		21	J	2.5	mg/Kg	6020A
Percent Moisture		17		0.10	%	Moisture
Percent Solids		83		0.10	%	Moisture
280-22438-10	**TP24 SB133**					
Antimony		0.038	J Q	0.18	mg/Kg	6020A
Copper		0.86	J	2.2	mg/Kg	6020A
Lead		6.9		0.088	mg/Kg	6020A
Nickel		1.8		0.31	mg/Kg	6020A
Zinc		9.6		2.2	mg/Kg	6020A
Percent Moisture		2.5		0.10	%	Moisture
Percent Solids		97		0.10	%	Moisture
280-22438-12	**CP29 GW002**					
Dissolved						
Nickel		4.5		3.0	ug/L	6020A
Zinc		5.0	J	20	ug/L	6020A
280-22438-13	**CP31 GW004**					
Dissolved						
Nickel		1.7	J	3.0	ug/L	6020A
Zinc		3.3	J	20	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-22438-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-22438-14	**CP31 GW005**					
Dissolved						
Nickel		1.5	J	3.0	ug/L	6020A
Zinc		2.7	J	20	ug/L	6020A
280-22438-15	**CP44 SD014**					
Copper		5.4		2.8	mg/Kg	6020A
Lead		0.90		0.11	mg/Kg	6020A
Nickel		0.69		0.39	mg/Kg	6020A
Zinc		2.9		2.8	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
280-22438-16	**CP45 SD015**					
Copper		0.38	J	2.5	mg/Kg	6020A
Lead		0.85		0.099	mg/Kg	6020A
Nickel		0.56		0.35	mg/Kg	6020A
Zinc		1.7	J	2.5	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
280-22438-17	**CP45 SD016**					
Copper		0.67	J	2.7	mg/Kg	6020A
Lead		1.2		0.11	mg/Kg	6020A
Nickel		0.77		0.37	mg/Kg	6020A
Zinc		3.5		2.7	mg/Kg	6020A
Percent Moisture		13		0.10	%	Moisture
Percent Solids		87		0.10	%	Moisture
280-22438-18	**CP46 SD017**					
Copper		1.2	J	2.7	mg/Kg	6020A
Lead		2.1		0.11	mg/Kg	6020A
Nickel		1.5		0.37	mg/Kg	6020A
Zinc		4.1		2.7	mg/Kg	6020A
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc. Job Number: 280-22438-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-22438-19	**CP47 GW015**					
Dissolved						
Copper		42		2.0	ug/L	6020A
Lead		3.1		3.0	ug/L	6020A
Nickel		2.1	J	3.0	ug/L	6020A
Zinc		390		20	ug/L	6020A

METHOD SUMMARY

Client: UXB International, Inc. Job Number: 280-22438-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Nitroaromatics and Nitramines (LC/MS)	TAL DEN	SW846 8321B	
Incremental Sample Preparation			EPA Increm, Prep
Sonication Extraction (Explosives)			SW846 8330B
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Metals			SW846 3050B
Percent Moisture	TAL DEN	EPA Moisture	
Matrix: Water			
Nitroaromatics and Nitramines (LC/MS)	TAL DEN	SW846 8321B	
Solid-Phase Extraction (SPE)			SW846 3535
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Total Recoverable or Dissolved Metals			SW846 3005A
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: UXB International, Inc. Job Number: 280-22438-1

Method	Analyst	Analyst ID
SW846 6020A	Lill, Thomas E	TEL
SW846 8321B	Meyer, Andrew GC	AGCM
EPA Moisture	Berry III, Paul B	PBB

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **MG37 GW006**

Lab Sample ID:	280-22438-1	Date Sampled:	11/02/2011 0850
Client Matrix:	Water	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95630	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10031.d
Dilution:	1.0			Initial Weight/Volume:	998.5 mL
Analysis Date:	11/10/2011 1603			Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.050	U	0.017	0.10
1,3-Dinitrobenzene	0.050	U	0.014	0.10
2,4,6-Trinitrotoluene	0.050	U	0.022	0.10
2,4-Dinitrotoluene	0.050	U	0.019	0.10
2,6-Dinitrotoluene	0.050	U	0.022	0.10
2-Amino-4,6-dinitrotoluene	0.050	U	0.021	0.10
2-Nitrotoluene	0.050	U	0.022	0.10
3-Nitrotoluene	0.050	U	0.025	0.10
4-Amino-2,6-dinitrotoluene	0.050	U	0.019	0.10
4-Nitrotoluene	0.050	U	0.026	0.10
HMX	0.050	U	0.019	0.10
Nitrobenzene	0.050	U	0.033	0.10
Nitroglycerin	0.050	U	0.045	0.14
PETN	0.050	U	0.018	0.10
RDX	0.050	U	0.021	0.10
Tetryl	0.050	U	0.021	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83		48 - 130

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **MG37 GW010**

Lab Sample ID:	280-22438-2	Date Sampled:	11/02/2011 0850
Client Matrix:	Water	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95630	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10032.d
Dilution:	1.0			Initial Weight/Volume:	1045 mL
Analysis Date:	11/10/2011 1616			Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.048	U	0.016	0.096
1,3-Dinitrobenzene	0.048	U	0.013	0.096
2,4,6-Trinitrotoluene	0.048	U	0.021	0.096
2,4-Dinitrotoluene	0.048	U	0.018	0.096
2,6-Dinitrotoluene	0.048	U	0.021	0.096
2-Amino-4,6-dinitrotoluene	0.048	U	0.020	0.096
2-Nitrotoluene	0.15		0.021	0.096
3-Nitrotoluene	0.026	J	0.024	0.096
4-Amino-2,6-dinitrotoluene	0.048	U	0.018	0.096
4-Nitrotoluene	0.17		0.025	0.096
Nitrobenzene	0.048	U	0.032	0.096
Nitroglycerin	0.048	U	0.043	0.13
PETN	0.048	U	0.017	0.096
RDX	0.048	U	0.020	0.096
Tetryl	0.048	U	0.020	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83		48 - 130

Analytical Data

Client: UXB International, Inc. | Job Number: 280-22438-1

Client Sample ID: **MG37 GW010**

Lab Sample ID: 280-22438-2 | Date Sampled: 11/02/2011 0850

Client Matrix: Water | Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10017.d
Dilution:	5.0			Initial Weight/Volume:	1045 mL
Analysis Date:	11/10/2011 1313	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
HMX	0.24	U	0.091	0.48

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	90	D	48 - 130

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **MG38 GW007**

Lab Sample ID:	280-22438-3	Date Sampled:	11/02/2011 1008
Client Matrix:	Water	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95630	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10033.d
Dilution:	1.0			Initial Weight/Volume:	1025 mL
Analysis Date:	11/10/2011 1628			Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.049	U	0.017	0.098
1,3-Dinitrobenzene	0.049	U	0.014	0.098
2,4,6-Trinitrotoluene	0.049	U	0.021	0.098
2,4-Dinitrotoluene	0.049	U	0.019	0.098
2,6-Dinitrotoluene	0.049	U	0.021	0.098
2-Amino-4,6-dinitrotoluene	0.049	U	0.020	0.098
2-Nitrotoluene	0.049	U	0.021	0.098
3-Nitrotoluene	0.049	U	0.024	0.098
4-Amino-2,6-dinitrotoluene	0.049	U	0.019	0.098
4-Nitrotoluene	0.049	U	0.025	0.098
HMX	0.049	U	0.019	0.098
Nitrobenzene	0.049	U	0.032	0.098
Nitroglycerin	0.049	U	0.044	0.14
PETN	0.049	U	0.018	0.098
RDX	0.049	U	0.020	0.098
Tetryl	0.049	U	0.020	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84		48 - 130

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **MG40 GW009**

Lab Sample ID: 280-22438-4 Date Sampled: 11/02/2011 1049
Client Matrix: Water Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95630	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10034.d
Dilution:	1.0			Initial Weight/Volume:	964.2 mL
Analysis Date:	11/10/2011 1640			Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.052	U	0.018	0.10
1,3-Dinitrobenzene	0.052	U	0.015	0.10
2,4,6-Trinitrotoluene	0.052	U	0.023	0.10
2,4-Dinitrotoluene	0.052	U	0.020	0.10
2,6-Dinitrotoluene	0.052	U	0.023	0.10
2-Amino-4,6-dinitrotoluene	0.052	U	0.022	0.10
2-Nitrotoluene	0.052	U	0.023	0.10
3-Nitrotoluene	0.052	U	0.026	0.10
4-Amino-2,6-dinitrotoluene	0.052	U	0.020	0.10
4-Nitrotoluene	0.052	U	0.027	0.10
HMX	0.052	U	0.020	0.10
Nitrobenzene	0.052	U	0.034	0.10
Nitroglycerin	0.052	U	0.047	0.15
PETN	0.052	U	0.019	0.10
RDX	0.052	U	0.022	0.10
Tetryl	0.052	U	0.022	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	87		48 - 130

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **TP02 GW011**

Lab Sample ID: 280-22438-5 Date Sampled: 11/02/2011 1317
Client Matrix: Water Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95630	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10035.d
Dilution:	1.0			Initial Weight/Volume:	1020.1 mL
Analysis Date:	11/10/2011 1652			Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.049	U	0.017	0.098
1,3-Dinitrobenzene	0.049	U	0.014	0.098
2,4,6-Trinitrotoluene	0.049	U	0.022	0.098
2,4-Dinitrotoluene	0.049	U	0.019	0.098
2,6-Dinitrotoluene	0.049	U	0.022	0.098
2-Amino-4,6-dinitrotoluene	0.049	U	0.021	0.098
2-Nitrotoluene	0.049	U	0.022	0.098
3-Nitrotoluene	0.049	U	0.025	0.098
4-Amino-2,6-dinitrotoluene	0.049	U	0.019	0.098
4-Nitrotoluene	0.049	U	0.025	0.098
Nitrobenzene	0.049	U	0.032	0.098
Nitroglycerin	0.049	U	0.044	0.14
PETN	0.049	U	0.018	0.098
RDX	0.049	U	0.021	0.098
Tetryl	0.049	U	0.021	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	75		48 - 130

Client: UXB International, Inc. | Job Number: 280-22438-1

Client Sample ID: **TP02 GW011**

Lab Sample ID:	280-22438-5	Date Sampled:	11/02/2011 1317
Client Matrix:	Water	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10020.d
Dilution:	5.0			Initial Weight/Volume:	1020.1 mL
Analysis Date:	11/10/2011 1349	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
HMX	0.25	U	0.093	0.49

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	91	D	48 - 130

Analytical Data

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **TP04 GW013**

Lab Sample ID:	280-22438-6	Date Sampled:	11/02/2011 1455
Client Matrix:	Water	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95630	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10036.d
Dilution:	1.0			Initial Weight/Volume:	1014.4 mL
Analysis Date:	11/10/2011 1704			Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.049	U	0.017	0.099
1,3-Dinitrobenzene	0.049	U	0.014	0.099
2,4,6-Trinitrotoluene	0.049	U	0.022	0.099
2,4-Dinitrotoluene	0.049	U	0.019	0.099
2,6-Dinitrotoluene	0.049	U	0.022	0.099
2-Amino-4,6-dinitrotoluene	0.049	U	0.021	0.099
2-Nitrotoluene	0.049	U	0.022	0.099
3-Nitrotoluene	0.049	U	0.025	0.099
4-Amino-2,6-dinitrotoluene	0.049	U	0.019	0.099
4-Nitrotoluene	0.049	U	0.026	0.099
Nitrobenzene	0.049	U	0.033	0.099
Nitroglycerin	0.049	U	0.044	0.14
PETN	0.049	U	0.018	0.099
RDX	0.049	U	0.021	0.099
Tetryl	0.049	U	0.021	0.099

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84		48 - 130

Client: UXB International, Inc. | Job Number: 280-22438-1

Client Sample ID: **TP04 GW013**

Lab Sample ID: 280-22438-6
Client Matrix: Water

Date Sampled: 11/02/2011 1455
Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10022.d
Dilution:	5.0			Initial Weight/Volume:	1014.4 mL
Analysis Date:	11/10/2011 1414	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
HMX	0.25	U	0.094	0.49

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	79	D	48 - 130

Client: UXB International, Inc. | Job Number: 280-22438-1

Client Sample ID: TP04 GW014

Lab Sample ID: 280-22438-7 | Date Sampled: 11/02/2011 1455
Client Matrix: Water | Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95630	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10038.d
Dilution:	1.0			Initial Weight/Volume:	1003.3 mL
Analysis Date:	11/10/2011 1729			Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.050	U	0.017	0.10
1,3-Dinitrobenzene	0.050	U	0.014	0.10
2,4,6-Trinitrotoluene	0.050	U	0.022	0.10
2,4-Dinitrotoluene	0.050	U	0.019	0.10
2,6-Dinitrotoluene	0.050	U	0.022	0.10
2-Amino-4,6-dinitrotoluene	0.050	U	0.021	0.10
2-Nitrotoluene	0.050	U	0.022	0.10
3-Nitrotoluene	0.050	U	0.025	0.10
4-Amino-2,6-dinitrotoluene	0.050	U	0.019	0.10
4-Nitrotoluene	0.050	U	0.026	0.10
Nitrobenzene	0.050	U	0.033	0.10
Nitroglycerin	0.050	U	0.045	0.14
PETN	0.050	U	0.018	0.10
RDX	0.050	U	0.021	0.10
Tetryl	0.050	U	0.021	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		48 - 130

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: TP04 GW014

Lab Sample ID:	280-22438-7	Date Sampled:	11/02/2011 1455
Client Matrix:	Water	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10023.d
Dilution:	5.0			Initial Weight/Volume:	1003.3 mL
Analysis Date:	11/10/2011 1426	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
HMX	0.25	U	0.095	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	90	D	48 - 130

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **TP03 GW012**

Lab Sample ID:	280-22438-8	Date Sampled:	11/02/2011 1533
Client Matrix:	Water	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95630	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10039.d
Dilution:	1.0			Initial Weight/Volume:	1001.1 mL
Analysis Date:	11/10/2011 1741			Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.050	U	0.017	0.10
1,3-Dinitrobenzene	0.050	U	0.014	0.10
2,4,6-Trinitrotoluene	0.050	U	0.022	0.10
2,4-Dinitrotoluene	0.050	U	0.019	0.10
2,6-Dinitrotoluene	0.050	U	0.022	0.10
2-Amino-4,6-dinitrotoluene	0.050	U	0.021	0.10
2-Nitrotoluene	0.050	U	0.022	0.10
3-Nitrotoluene	0.050	U	0.025	0.10
4-Amino-2,6-dinitrotoluene	0.050	U	0.019	0.10
4-Nitrotoluene	0.050	U	0.026	0.10
HMX	0.050	U	0.019	0.10
Nitrobenzene	0.050	U	0.033	0.10
Nitroglycerin	0.050	U	0.045	0.14
PETN	0.050	U	0.018	0.10
RDX	0.050	U	0.021	0.10
Tetryl	0.050	U	0.021	0.10

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		48 - 130

Client: UXB International, Inc.

Job Number: 280-22438-1

Client Sample ID: **TP23 SB132**

Lab Sample ID: 280-22438-9
Client Matrix: Solid

Date Sampled: 11/02/2011 1255
Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-96232	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-95682	Lab File ID:	ex41K10116.d
Dilution:	1.0	Leach Batch:	280-94996	Initial Weight/Volume:	10.40 g
Analysis Date:	11/14/2011 1253			Final Weight/Volume:	40 mL
Prep Date:	11/10/2011 1550			Injection Volume:	40 uL
Leach Date:	11/05/2011 1316				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0050	0.096
RDX		0.012	U	0.0042	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	94		68 - 140

Client: UXB International, Inc.   Job Number: 280-22438-1

Client Sample ID: **TP24 SB133**

Lab Sample ID: 280-22438-10   Date Sampled: 11/02/2011 1305
Client Matrix: Solid   Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-96232	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-95682	Lab File ID:	ex41K10119.d
Dilution:	1.0	Leach Batch:	280-94996	Initial Weight/Volume:	10.39 g
Analysis Date:	11/14/2011 1329			Final Weight/Volume:	40 mL
Prep Date:	11/10/2011 1550			Injection Volume:	40 uL
Leach Date:	11/05/2011 1316				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.096
1,3-Dinitrobenzene		0.012	U	0.0069	0.096
2,4,6-Trinitrotoluene		0.012	U	0.0048	0.096
2,4-Dinitrotoluene		0.012	U	0.0079	0.096
2,6-Dinitrotoluene		0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.096
2-Nitrotoluene		0.012	U	0.0055	0.096
3-Nitrotoluene		0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.096
4-Nitrotoluene		0.024	U	0.011	0.096
HMX		0.012	U	0.0056	0.096
Nitrobenzene		0.012	U	0.010	0.096
Nitroglycerin		0.012	U	0.010	0.096
PETN		0.012	U	0.0050	0.096
RDX		0.012	U	0.0042	0.096
Tetryl		0.012	U	0.0073	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	100		68 - 140

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **CP29 GW002**

Lab Sample ID: 280-22438-12 Date Sampled: 11/01/2011 1305
Client Matrix: Water Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95630	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10041.d
Dilution:	1.0			Initial Weight/Volume:	1016.6 mL
Analysis Date:	11/10/2011 1805			Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.049	U	0.017	0.098
1,3-Dinitrobenzene	0.049	U	0.014	0.098
2,4,6-Trinitrotoluene	0.049	U	0.022	0.098
2,4-Dinitrotoluene	0.049	U	0.019	0.098
2,6-Dinitrotoluene	0.049	U	0.022	0.098
2-Amino-4,6-dinitrotoluene	0.049	U	0.021	0.098
2-Nitrotoluene	0.049	U	0.022	0.098
3-Nitrotoluene	0.049	U	0.025	0.098
4-Amino-2,6-dinitrotoluene	0.049	U	0.019	0.098
4-Nitrotoluene	0.049	U	0.026	0.098
Nitrobenzene	0.049	U	0.032	0.098
Nitroglycerin	0.049	U	0.044	0.14
PETN	0.049	U	0.018	0.098
RDX	0.049	U	0.021	0.098
Tetryl	0.049	U	0.021	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	71		48 - 130

Client: UXB International, Inc.

Job Number: 280-22438-1

Client Sample ID: **CP29 GW002**

Lab Sample ID:	280-22438-12	Date Sampled:	11/01/2011 1305
Client Matrix:	Water	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10026.d
Dilution:	5.0			Initial Weight/Volume:	1016.6 mL
Analysis Date:	11/10/2011 1503	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
HMX	0.25	U	0.093	0.49

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	96	D	48 - 130

Client: UXB International, Inc.	Job Number: 280-22438-1

Client Sample ID: **CP31 GW004**

Lab Sample ID: 280-22438-13	Date Sampled: 11/01/2011 1456
Client Matrix: Water	Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95630	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10042.d
Dilution:	1.0			Initial Weight/Volume:	823.8 mL
Analysis Date:	11/10/2011 1817			Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.061	U	0.021	0.12
1,3-Dinitrobenzene	0.061	U	0.017	0.12
2,4,6-Trinitrotoluene	0.061	U	0.027	0.12
2,4-Dinitrotoluene	0.061	U	0.023	0.12
2,6-Dinitrotoluene	0.061	U	0.027	0.12
2-Amino-4,6-dinitrotoluene	0.061	U	0.025	0.12
2-Nitrotoluene	0.061	U	0.027	0.12
3-Nitrotoluene	0.061	U	0.030	0.12
4-Amino-2,6-dinitrotoluene	0.061	U	0.023	0.12
4-Nitrotoluene	0.061	U	0.032	0.12
Nitrobenzene	0.061	U	0.040	0.12
Nitroglycerin	0.061	U	0.055	0.17
PETN	0.061	U	0.022	0.12
RDX	0.061	U	0.025	0.12
Tetryl	0.061	U	0.025	0.12

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	95		48 - 130

Client: UXB International, Inc. | Job Number: 280-22438-1

Client Sample ID: **CP31 GW004**

Lab Sample ID:	280-22438-13	Date Sampled:	11/01/2011 1456
Client Matrix:	Water	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10027.d
Dilution:	10			Initial Weight/Volume:	823.8 mL
Analysis Date:	11/10/2011 1515	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
HMX	0.61	U	0.23	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81	D	48 - 130

Analytical Data

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: CP31 GW005

Lab Sample ID: 280-22438-14 Date Sampled: 11/01/2011 1456
Client Matrix: Water Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95630	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10043.d
Dilution:	1.0			Initial Weight/Volume:	875.7 mL
Analysis Date:	11/10/2011 1829			Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.057	U	0.019	0.11
1,3-Dinitrobenzene	0.057	U	0.016	0.11
2,4,6-Trinitrotoluene	0.057	U	0.025	0.11
2,4-Dinitrotoluene	0.057	U	0.022	0.11
2,6-Dinitrotoluene	0.057	U	0.025	0.11
2-Amino-4,6-dinitrotoluene	0.057	U	0.024	0.11
2-Nitrotoluene	0.057	U	0.025	0.11
3-Nitrotoluene	0.057	U	0.029	0.11
4-Amino-2,6-dinitrotoluene	0.057	U	0.022	0.11
4-Nitrotoluene	0.057	U	0.030	0.11
Nitrobenzene	0.057	U	0.038	0.11
Nitroglycerin	0.057	U	0.051	0.16
PETN	0.057	U	0.021	0.11
Tetryl	0.057	U	0.024	0.11

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		48 - 130

Client: UXB International, Inc. | Job Number: 280-22438-1

Client Sample ID: **CP31 GW005**

Lab Sample ID: 280-22438-14 | Date Sampled: 11/01/2011 1456
Client Matrix: Water | Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10028.d
Dilution:	10			Initial Weight/Volume:	875.7 mL
Analysis Date:	11/10/2011 1527	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
HMX	0.57	U	0.22	1.1
RDX	0.57	U	0.24	1.1

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	89	D	48 - 130

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **CP44 SD014**

Lab Sample ID:	280-22438-15	Date Sampled:	11/01/2011 1601
Client Matrix:	Solid	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-96232	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-95682	Lab File ID:	ex41K10120.d
Dilution:	1.0	Leach Batch:	280-94996	Initial Weight/Volume:	10.32 g
Analysis Date:	11/14/2011 1342			Final Weight/Volume:	40 mL
Prep Date:	11/10/2011 1550			Injection Volume:	40 uL
Leach Date:	11/05/2011 1316				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0079	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0049	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0056	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	81		68 - 140

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **CP45 SD015**

Lab Sample ID: 280-22438-16 Date Sampled: 11/01/2011 1550
Client Matrix: Solid Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-96232	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-95682	Lab File ID:	ex41K10121.d
Dilution:	1.0	Leach Batch:	280-94996	Initial Weight/Volume:	10.29 g
Analysis Date:	11/14/2011 1354			Final Weight/Volume:	40 mL
Prep Date:	11/10/2011 1550			Injection Volume:	40 uL
Leach Date:	11/05/2011 1316				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0080	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0057	0.097
Nitrobenzene		0.012	U	0.010	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	91		68 - 140

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **CP45 SD016**

Lab Sample ID:	280-22438-17	Date Sampled:	11/01/2011 1550
Client Matrix:	Solid	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-96232	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-95682	Lab File ID:	ex41K10122.d
Dilution:	1.0	Leach Batch:	280-94996	Initial Weight/Volume:	10.26 g
Analysis Date:	11/14/2011 1406			Final Weight/Volume:	40 mL
Prep Date:	11/10/2011 1550			Injection Volume:	40 uL
Leach Date:	11/05/2011 1316				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0080	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0057	0.097
Nitrobenzene		0.012	U	0.011	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	90		68 - 140

Client: UXB International, Inc. | Job Number: 280-22438-1

Client Sample ID: **CP46 SD017**

Lab Sample ID: 280-22438-18 | Date Sampled: 11/01/2011 1540
Client Matrix: Solid | Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-96232	Instrument ID:	LC_LCMS4
Prep Method:	8330B	Prep Batch:	280-95682	Lab File ID:	ex41K10123.d
Dilution:	1.0	Leach Batch:	280-94996	Initial Weight/Volume:	10.28 g
Analysis Date:	11/14/2011 1418			Final Weight/Volume:	40 mL
Prep Date:	11/10/2011 1550			Injection Volume:	40 uL
Leach Date:	11/05/2011 1316				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene		0.024	U	0.012	0.097
1,3-Dinitrobenzene		0.012	U	0.0069	0.097
2,4,6-Trinitrotoluene		0.012	U	0.0049	0.097
2,4-Dinitrotoluene		0.012	U	0.0080	0.097
2,6-Dinitrotoluene		0.024	U	0.019	0.097
2-Amino-4,6-dinitrotoluene		0.024	U	0.012	0.097
2-Nitrotoluene		0.012	U	0.0056	0.097
3-Nitrotoluene		0.024	U	0.012	0.097
4-Amino-2,6-dinitrotoluene		0.012	U	0.0050	0.097
4-Nitrotoluene		0.024	U	0.011	0.097
HMX		0.012	U	0.0057	0.097
Nitrobenzene		0.012	U	0.011	0.097
Nitroglycerin		0.012	U	0.010	0.097
PETN		0.012	U	0.0050	0.097
RDX		0.012	U	0.0042	0.097
Tetryl		0.012	U	0.0074	0.097

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	96		68 - 140

Analytical Data

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: CP47 GW015

Lab Sample ID:	280-22438-19	Date Sampled:	11/01/2011 1315
Client Matrix:	Water	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95630	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10044.d
Dilution:	1.0			Initial Weight/Volume:	1039.4 mL
Analysis Date:	11/10/2011 1841			Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.048	U	0.016	0.096
1,3-Dinitrobenzene	0.048	U	0.013	0.096
2,4,6-Trinitrotoluene	0.048	U	0.021	0.096
2,4-Dinitrotoluene	0.048	U	0.018	0.096
2,6-Dinitrotoluene	0.048	U	0.021	0.096
2-Amino-4,6-dinitrotoluene	0.048	U	0.020	0.096
2-Nitrotoluene	0.048	U	0.021	0.096
3-Nitrotoluene	0.048	U	0.024	0.096
4-Amino-2,6-dinitrotoluene	0.048	U	0.018	0.096
4-Nitrotoluene	0.048	U	0.025	0.096
Nitrobenzene	0.048	U	0.032	0.096
Nitroglycerin	0.048	U	0.043	0.13
PETN	0.048	U	0.017	0.096
RDX	0.048	U	0.020	0.096
Tetryl	0.048	U	0.020	0.096

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	63		48 - 130

Analytical Data

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **CP47 GW015**

Lab Sample ID:	280-22438-19	Date Sampled:	11/01/2011 1315
Client Matrix:	Water	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10029.d
Dilution:	5.0			Initial Weight/Volume:	1039.4 mL
Analysis Date:	11/10/2011 1539	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
HMX	0.24	U	0.091	0.48

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	89	D	48 - 130

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **MG37 GW006**

Lab Sample ID:	280-22438-1	Date Sampled:	11/02/2011 0850
Client Matrix:	Water	Date Received:	11/04/2011 0930

6020A Metals (ICP/MS)-Dissolved

Analysis Method:	6020A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-94950	Lab File ID:	021AREF.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1214			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U Q	0.070	6.0
Copper	1.5	J	0.56	2.0
Lead	0.50	U	0.18	3.0
Nickel	12		0.30	3.0
Zinc	7.4	J	2.0	20

Client: UXB International, Inc. | Job Number: 280-22438-1

Client Sample ID: **MG37 GW010**

Lab Sample ID:	280-22438-2	Date Sampled:	11/02/2011 0850
Client Matrix:	Water	Date Received:	11/04/2011 0930

6020A Metals (ICP/MS)-Dissolved

Analysis Method:	6020A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-94950	Lab File ID:	026SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1228			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U Q	0.070	6.0
Copper	0.99	J	0.56	2.0
Lead	0.50	U	0.18	3.0
Nickel	9.0		0.30	3.0
Zinc	4.3	J	2.0	20

Analytical Data

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **MG38 GW007**

Lab Sample ID: 280-22438-3 Date Sampled: 11/02/2011 1008
Client Matrix: Water Date Received: 11/04/2011 0930

6020A Metals (ICP/MS)-Dissolved

Analysis Method:	6020A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-94950	Lab File ID:	027SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1231			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U Q	0.070	6.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Nickel	7.4		0.30	3.0
Zinc	5.8	J	2.0	20

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **MG40 GW009**

Lab Sample ID: 280-22438-4 Date Sampled: 11/02/2011 1049
Client Matrix: Water Date Received: 11/04/2011 0930

6020A Metals (ICP/MS)-Dissolved

Analysis Method:	6020A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-94950	Lab File ID:	031SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1242			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U Q	0.070	6.0
Copper	0.57	J	0.56	2.0
Lead	0.50	U	0.18	3.0
Nickel	5.5		0.30	3.0
Zinc	9.0	J	2.0	20

Analytical Data

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **TP02 GW011**

Lab Sample ID: 280-22438-5 Date Sampled: 11/02/2011 1317
Client Matrix: Water Date Received: 11/04/2011 0930

6020A Metals (ICP/MS)-Dissolved

Analysis Method:	6020A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-94950	Lab File ID:	032SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1245			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U Q	0.070	6.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Nickel	6.5		0.30	3.0
Zinc	12	J	2.0	20

Analytical Data

Client: UXB International, Inc.　　　　Job Number: 280-22438-1

Client Sample ID: **TP04 GW013**

Lab Sample ID: 280-22438-6　　　　Date Sampled: 11/02/2011 1455
Client Matrix: Water　　　　Date Received: 11/04/2011 0930

6020A Metals (ICP/MS)-Dissolved

Analysis Method:	6020A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-94950	Lab File ID:	033SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1248			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.074	J Q	0.070	6.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Nickel	13		0.30	3.0
Zinc	4.0	J	2.0	20

Analytical Data

Client: UXB International, Inc. | Job Number: 280-22438-1

Client Sample ID: **TP04 GW014**

Lab Sample ID: 280-22438-7
Client Matrix: Water

Date Sampled: 11/02/2011 1455
Date Received: 11/04/2011 0930

6020A Metals (ICP/MS)-Dissolved

Analysis Method:	6020A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-94950	Lab File ID:	034SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1251			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.073	J Q	0.070	6.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Nickel	12		0.30	3.0
Zinc	4.2	J	2.0	20

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **TP03 GW012**

Lab Sample ID:	280-22438-8	Date Sampled:	11/02/2011 1533
Client Matrix:	Water	Date Received:	11/04/2011 0930

6020A Metals (ICP/MS)-Dissolved

Analysis Method:	6020A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-94950	Lab File ID:	035SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1254			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U Q	0.070	6.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Nickel	4.5		0.30	3.0
Zinc	5.7	J	2.0	20

Analytical Data

Client: UXB International, Inc. | Job Number: 280-22438-1

Client Sample ID: TP23 SB132

Lab Sample ID:	280-22438-9			Date Sampled:	11/02/2011 1255
Client Matrix:	Solid	% Moisture:	16.8	Date Received:	11/04/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-96709	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-96043	Lab File ID:	177AREF.D
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	11/16/2011 1946			Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0615				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.068	Q J	0.014	0.20
Copper		1.4	J	0.072	2.5
Lead		15		0.019	0.10
Nickel		3.7		0.026	0.36
Zinc		21	J	0.32	2.5

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **TP24 SB133**

Lab Sample ID: 280-22438-10 Date Sampled: 11/02/2011 1305
Client Matrix: Solid % Moisture: 2.5 Date Received: 11/04/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-96709	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-96043	Lab File ID:	185SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	11/16/2011 2009			Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0615				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.038	J Q	0.012	0.18
Copper		0.86	J	0.062	2.2
Lead		6.9		0.016	0.088
Nickel		1.8		0.022	0.31
Zinc		9.6		0.28	2.2

Analytical Data

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **CP29 GW002**

Lab Sample ID:	280-22438-12	Date Sampled:	11/01/2011 1305
Client Matrix:	Water	Date Received:	11/04/2011 0930

6020A Metals (ICP/MS)-Dissolved

Analysis Method:	6020A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-94950	Lab File ID:	036SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1257			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U Q	0.070	6.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Nickel	4.5		0.30	3.0
Zinc	5.0	J	2.0	20

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **CP31 GW004**

Lab Sample ID: 280-22438-13 Date Sampled: 11/01/2011 1456
Client Matrix: Water Date Received: 11/04/2011 0930

6020A Metals (ICP/MS)-Dissolved

Analysis Method:	6020A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-94950	Lab File ID:	037SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1300			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U Q	0.070	6.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Nickel	1.7	J	0.30	3.0
Zinc	3.3	J	2.0	20

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **CP31 GW005**

Lab Sample ID:	280-22438-14	Date Sampled:	11/01/2011 1456
Client Matrix:	Water	Date Received:	11/04/2011 0930

6020A Metals (ICP/MS)-Dissolved

Analysis Method:	6020A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-94950	Lab File ID:	038SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1303			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U Q	0.070	6.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Nickel	1.5	J	0.30	3.0
Zinc	2.7	J	2.0	20

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **CP44 SD014**

Lab Sample ID:	280-22438-15			Date Sampled:	11/01/2011 1601
Client Matrix:	Solid	% Moisture:	12.9	Date Received:	11/04/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-96709	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-96043	Lab File ID:	186SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	11/16/2011 2012			Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0615				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.045	U Q	0.016	0.22
Copper		5.4		0.079	2.8
Lead		0.90		0.020	0.11
Nickel		0.69		0.028	0.39
Zinc		2.9		0.35	2.8

Analytical Data

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **CP45 SD015**

Lab Sample ID:	280-22438-16			Date Sampled:	11/01/2011 1550
Client Matrix:	Solid	% Moisture:	13.3	Date Received:	11/04/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-96709	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-96043	Lab File ID:	187SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	11/16/2011 2015			Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0615				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.040	U Q	0.014	0.20
Copper		0.38	J	0.071	2.5
Lead		0.85		0.018	0.099
Nickel		0.56		0.025	0.35
Zinc		1.7	J	0.31	2.5

Client: UXB International, Inc. | Job Number: 280-22438-1

Client Sample ID: **CP45 SD016**

Lab Sample ID:	280-22438-17			Date Sampled:	11/01/2011 1550
Client Matrix:	Solid	% Moisture:	13.4	Date Received:	11/04/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-96709	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-96043	Lab File ID:	188SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	11/16/2011 2018			Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0615				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.043	U Q	0.015	0.21
Copper		0.67	J	0.076	2.7
Lead		1.2		0.019	0.11
Nickel		0.77		0.027	0.37
Zinc		3.5		0.34	2.7

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **CP46 SD017**

Lab Sample ID:	280-22438-18			Date Sampled:	11/01/2011 1540
Client Matrix:	Solid	% Moisture:	12.5	Date Received:	11/04/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-96709	Instrument ID:	MT_024
Prep Method:	3050B	Prep Batch:	280-96043	Lab File ID:	189SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	11/16/2011 2021			Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0615				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	DL	LOQ
Antimony		0.043	U Q	0.015	0.21
Copper		1.2	J	0.076	2.7
Lead		2.1		0.019	0.11
Nickel		1.5		0.027	0.37
Zinc		4.1		0.34	2.7

Client: UXB International, Inc. Job Number: 280-22438-1

Client Sample ID: **CP47 GW015**

Lab Sample ID: 280-22438-19 Date Sampled: 11/01/2011 1315
Client Matrix: Water Date Received: 11/04/2011 0930

6020A Metals (ICP/MS)-Dissolved

Analysis Method:	6020A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-94950	Lab File ID:	039SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1306			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.20	U Q	0.070	6.0
Copper	42		0.56	2.0
Lead	3.1		0.18	3.0
Nickel	2.1	J	0.30	3.0
Zinc	390		2.0	20

General Chemistry

Client Sample ID: **TP23 SB132**

Lab Sample ID: 280-22438-9 Date Sampled: 11/02/2011 1255
Client Matrix: Solid Date Received: 11/04/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	17		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-95047	Analysis Date: 11/07/2011 0811						DryWt Corrected: N
Percent Solids	83		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-95047	Analysis Date: 11/07/2011 0811						DryWt Corrected: N

General Chemistry

Client Sample ID: **TP24 SB133**

Lab Sample ID: 280-22438-10 Date Sampled: 11/02/2011 1305
Client Matrix: Solid Date Received: 11/04/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	2.5		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-95047	Analysis Date: 11/07/2011 0811						DryWt Corrected: N
Percent Solids	97		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-95047	Analysis Date: 11/07/2011 0811						DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-22438-1

General Chemistry

Client Sample ID: **CP44 SD014**

Lab Sample ID: 280-22438-15 Date Sampled: 11/01/2011 1601
Client Matrix: Solid Date Received: 11/04/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-95047	Analysis Date: 11/07/2011 0811						DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-95047	Analysis Date: 11/07/2011 0811						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP45 SD015**

Lab Sample ID: 280-22438-16 Date Sampled: 11/01/2011 1550
Client Matrix: Solid Date Received: 11/04/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-95047	Analysis Date: 11/07/2011 0811						DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-95047	Analysis Date: 11/07/2011 0811						DryWt Corrected: N

General Chemistry

Client Sample ID: **CP45 SD016**

Lab Sample ID: 280-22438-17 Date Sampled: 11/01/2011 1550
Client Matrix: Solid Date Received: 11/04/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	13		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-95047	Analysis Date: 11/07/2011 0811					DryWt Corrected: N
Percent Solids	87		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 280-95047	Analysis Date: 11/07/2011 0811					DryWt Corrected: N

General Chemistry

Client Sample ID: CP46 SD017

Lab Sample ID: 280-22438-18 Date Sampled: 11/01/2011 1540
Client Matrix: Solid Date Received: 11/04/2011 0930

Analyte	Result	Qual	Units	DL	LOQ	Dil	Method
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-95047	Analysis Date: 11/07/2011 0811						DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 280-95047	Analysis Date: 11/07/2011 0811						DryWt Corrected: N

Client: UXB International, Inc. Job Number: 280-22438-1

Surrogate Recovery Report

8321B Nitroaromatics and Nitramines (LC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	NBZ %Rec
280-22438-9	TP23 SB132	94
280-22438-10	TP24 SB133	100
280-22438-15	CP44 SD014	81
280-22438-16	CP45 SD015	91
280-22438-17	CP45 SD016	90
280-22438-18	CP46 SD017	96
MB 280-95682/1-A		98
LCS 280-95682/2-A		105
280-22438-9 MS	TP23 SB132 MS	97
280-22438-9 MSD	TP23 SB132 MSD	98

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	68-140

Surrogate Recovery Report

8321B Nitroaromatics and Nitramines (LC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	NBZ %Rec
280-22438-1	MG37 GW006	83
280-22438-2 DL	MG37 GW010 DL	90D
280-22438-2	MG37 GW010	83
280-22438-3	MG38 GW007	84
280-22438-4	MG40 GW009	87
280-22438-5 DL	TP02 GW011 DL	91D
280-22438-5	TP02 GW011	75
280-22438-6 DL	TP04 GW013 DL	79D
280-22438-6	TP04 GW013	84
280-22438-7 DL	TP04 GW014 DL	90D
280-22438-7	TP04 GW014	76
280-22438-8	TP03 GW012	74
280-22438-12 DL	CP29 GW002 DL	96D
280-22438-12	CP29 GW002	71
280-22438-13 DL	CP31 GW004 DL	81D
280-22438-13	CP31 GW004	95
280-22438-14 DL	CP31 GW005 DL	89D
280-22438-14	CP31 GW005	76
280-22438-19 DL	CP47 GW015 DL	89D
280-22438-19	CP47 GW015	63
MB 280-95077/1-A		80
LCS 280-95077/2-A		72
LCSD 280-95077/3-A		67

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	48-130

Quality Control Results

Client: UXB International, Inc. Job Number: 280-22438-1

Method Blank - Batch: 280-95077

Method: 8321B
Preparation: 3535

Lab Sample ID:	MB 280-95077/1-A	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Client Matrix:	Water	Prep Batch:	280-95077	Lab File ID:	ex41K10013.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/10/2011 1224	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.050	U	0.017	0.10
1,3-Dinitrobenzene	0.050	U	0.014	0.10
2,4,6-Trinitrotoluene	0.050	U	0.022	0.10
2,4-Dinitrotoluene	0.050	U	0.019	0.10
2,6-Dinitrotoluene	0.050	U	0.022	0.10
2-Amino-4,6-dinitrotoluene	0.050	U	0.021	0.10
2-Nitrotoluene	0.050	U	0.022	0.10
3-Nitrotoluene	0.050	U	0.025	0.10
4-Amino-2,6-dinitrotoluene	0.050	U	0.019	0.10
4-Nitrotoluene	0.050	U	0.026	0.10
HMX	0.050	U	0.019	0.10
Nitrobenzene	0.050	U	0.033	0.10
Nitroglycerin	0.050	U	0.045	0.14
PETN	0.050	U	0.018	0.10
RDX	0.050	U	0.021	0.10
Tetryl	0.050	U	0.021	0.10

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	80	48 - 130

Client: UXB International, Inc. Job Number: 280-22438-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-95077

Method: 8321B
Preparation: 3535

LCS Lab Sample ID:	LCS 280-95077/2-A	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Client Matrix:	Water	Prep Batch:	280-95077	Lab File ID:	ex41K10014.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/10/2011 1237	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-95077/3-A	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Client Matrix:	Water	Prep Batch:	280-95077	Lab File ID:	ex41K10015.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/10/2011 1249	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,3,5-Trinitrobenzene	89	87	54 - 145	2	57		
1,3-Dinitrobenzene	104	95	68 - 131	9	39		
2,4,6-Trinitrotoluene	42	41	20 - 147	2	68		
2,4-Dinitrotoluene	96	95	66 - 130	2	46		
2,6-Dinitrotoluene	90	87	64 - 133	4	44		
2-Amino-4,6-dinitrotoluene	92	87	64 - 138	6	41		
2-Nitrotoluene	73	72	34 - 131	1	68		
3-Nitrotoluene	83	69	36 - 133	19	89		
4-Amino-2,6-dinitrotoluene	96	87	65 - 131	10	36		
4-Nitrotoluene	80	71	40 - 137	13	72		
HMX	90	86	56 - 134	5	34		
Nitrobenzene	76	76	42 - 141	1	58		
Nitroglycerin	92	92	37 - 147	0	71		
PETN	93	104	10 - 198	11	50		
RDX	95	94	72 - 130	1	25		
Tetryl	33	31	15 - 134	5	51		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Nitrobenzene-d5	72	67	48 - 130

Client: UXB International, Inc. Job Number: 280-22438-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-95077

Method: 8321B
Preparation: 3535

LCS Lab Sample ID:	LCS 280-95077/2-A	Units: ug/L		LCSD Lab Sample ID:	LCSD 280-95077/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/10/2011 1237			Analysis Date:	11/10/2011 1249
Prep Date:	11/07/2011 1142			Prep Date:	11/07/2011 1142
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,3,5-Trinitrobenzene	0.500	0.500	0.445	0.434
1,3-Dinitrobenzene	0.500	0.500	0.521	0.476
2,4,6-Trinitrotoluene	0.500	0.500	0.208	0.204
2,4-Dinitrotoluene	0.500	0.500	0.482	0.474
2,6-Dinitrotoluene	0.500	0.500	0.449	0.433
2-Amino-4,6-dinitrotoluene	0.500	0.500	0.462	0.433
2-Nitrotoluene	0.500	0.500	0.365	0.361
3-Nitrotoluene	0.500	0.500	0.415	0.345
4-Amino-2,6-dinitrotoluene	0.500	0.500	0.481	0.436
4-Nitrotoluene	0.500	0.500	0.402	0.354
HMX	0.500	0.500	0.449	0.428
Nitrobenzene	0.500	0.500	0.382	0.379
Nitroglycerin	0.500	0.500	0.459	0.458
PETN	0.500	0.500	0.464	0.519
RDX	0.500	0.500	0.474	0.469
Tetryl	0.500	0.500	0.163	0.155

Client: UXB International, Inc. | Job Number: 280-22438-1

Method Blank - Batch: 280-95682

Method: 8321B
Preparation: 8330B

Lab Sample ID:	MB 280-95682/1-A	Analysis Batch:	280-96232	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-95682	Lab File ID:	ex41K10125.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.47 g
Analysis Date:	11/14/2011 1442	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	11/10/2011 1550			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.024	U	0.012	0.096
1,3-Dinitrobenzene	0.012	U	0.0068	0.096
2,4,6-Trinitrotoluene	0.012	U	0.0048	0.096
2,4-Dinitrotoluene	0.012	U	0.0078	0.096
2,6-Dinitrotoluene	0.024	U	0.019	0.096
2-Amino-4,6-dinitrotoluene	0.024	U	0.011	0.096
2-Nitrotoluene	0.012	U	0.0055	0.096
3-Nitrotoluene	0.024	U	0.012	0.096
4-Amino-2,6-dinitrotoluene	0.012	U	0.0049	0.096
4-Nitrotoluene	0.024	U	0.011	0.096
HMX	0.012	U	0.0056	0.096
Nitrobenzene	0.012	U	0.010	0.096
Nitroglycerin	0.012	U	0.010	0.096
PETN	0.012	U	0.0049	0.096
RDX	0.012	U	0.0041	0.096
Tetryl	0.012	U	0.0072	0.096

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	98	68 - 140

Quality Control Results

Client: UXB International, Inc. Job Number: 280-22438-1

Lab Control Sample - Batch: 280-95682

Method: 8321B
Preparation: 8330B

Lab Sample ID:	LCS 280-95682/2-A	Analysis Batch:	280-96232	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-95682	Lab File ID:	ex41K10126.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.36 g
Analysis Date:	11/14/2011 1455	Units:	mg/Kg	Final Weight/Volume:	40 mL
Prep Date:	11/10/2011 1550			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trinitrobenzene	0.386	0.369	95	45 - 142	
1,3-Dinitrobenzene	0.386	0.425	110	74 - 130	
2,4,6-Trinitrotoluene	0.386	0.425	110	60 - 135	
2,4-Dinitrotoluene	0.386	0.375	97	63 - 130	
2,6-Dinitrotoluene	0.386	0.394	102	65 - 133	
2-Amino-4,6-dinitrotoluene	0.386	0.369	96	51 - 148	
2-Nitrotoluene	0.386	0.399	103	59 - 150	
3-Nitrotoluene	0.386	0.381	99	56 - 154	
4-Amino-2,6-dinitrotoluene	0.386	0.374	97	60 - 141	
4-Nitrotoluene	0.386	0.378	98	72 - 145	
HMX	0.386	0.362	94	48 - 131	
Nitrobenzene	0.386	0.407	105	70 - 140	
Nitroglycerin	0.386	0.360	93	27 - 146	
PETN	0.386	0.388	100	31 - 171	
RDX	0.386	0.366	95	69 - 130	
Tetryl	0.386	0.517	134	10 - 170	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	105	68 - 140

Client: UXB International, Inc.   Job Number: 280-22438-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-95682

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-22438-9	Analysis Batch:	280-96232	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-95682	Lab File ID:	ex41K10117.d
Dilution:	1.0	Leach Batch:	280-94996	Initial Weight/Volume:	10.18 g
Analysis Date:	11/14/2011 1305			Final Weight/Volume:	40 mL
Prep Date:	11/10/2011 1550			Injection Volume:	40 uL
Leach Date:	11/05/2011 1316				

MSD Lab Sample ID:	280-22438-9	Analysis Batch:	280-96232	Instrument ID:	LC_LCMS4
Client Matrix:	Solid	Prep Batch:	280-95682	Lab File ID:	ex41K10118.d
Dilution:	1.0	Leach Batch:	280-94996	Initial Weight/Volume:	10.43 g
Analysis Date:	11/14/2011 1317			Final Weight/Volume:	40 mL
Prep Date:	11/10/2011 1550			Injection Volume:	40 uL
Leach Date:	11/05/2011 1316				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,3,5-Trinitrobenzene	84	85	45 - 142	1	70		
1,3-Dinitrobenzene	95	96	74 - 130	1	25		
2,4,6-Trinitrotoluene	93	94	60 - 135	1	25		
2,4-Dinitrotoluene	91	95	63 - 130	2	25		M
2,6-Dinitrotoluene	88	92	65 - 133	2	25		
2-Amino-4,6-dinitrotoluene	83	81	51 - 148	4	25		
2-Nitrotoluene	90	95	59 - 150	4	45		
3-Nitrotoluene	92	95	56 - 154	1	25		
4-Amino-2,6-dinitrotoluene	87	91	60 - 141	2	48		
4-Nitrotoluene	89	90	72 - 145	0	25		
HMX	88	90	48 - 131	0	25		
Nitrobenzene	101	98	70 - 140	5	25		
Nitroglycerin	89	86	27 - 146	6	92		
PETN	88	92	31 - 171	2	40		
RDX	95	90	69 - 130	8	25		
Tetryl	111	109	10 - 170	4	50		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	97	98	68 - 140

Client: UXB International, Inc. Job Number: 280-22438-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-95682

Method: 8321B
Preparation: 8330B

MS Lab Sample ID:	280-22438-9	Units: mg/Kg	MSD Lab Sample ID:	280-22438-9
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Analysis Date:	11/14/2011 1305		Analysis Date:	11/14/2011 1317
Prep Date:	11/10/2011 1550		Prep Date:	11/10/2011 1550
Leach Date:	11/05/2011 1316		Leach Date:	11/05/2011 1316

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
1,3,5-Trinitrobenzene	0.024	U	0.393	0.384	0.332	0.328	
1,3-Dinitrobenzene	0.012	U	0.393	0.384	0.374	0.369	
2,4,6-Trinitrotoluene	0.012	U	0.393	0.384	0.366	0.361	
2,4-Dinitrotoluene	0.012	U	0.393	0.384	0.357	0.363	M
2,6-Dinitrotoluene	0.024	U	0.393	0.384	0.345	0.351	
2-Amino-4,6-dinitrotoluene	0.024	U	0.393	0.384	0.325	0.311	
2-Nitrotoluene	0.012	U	0.393	0.384	0.353	0.366	
3-Nitrotoluene	0.024	U	0.393	0.384	0.361	0.365	
4-Amino-2,6-dinitrotoluene	0.012	U	0.393	0.384	0.341	0.349	
4-Nitrotoluene	0.024	U	0.393	0.384	0.348	0.347	
HMX	0.012	U	0.393	0.384	0.344	0.345	
Nitrobenzene	0.012	U	0.393	0.384	0.396	0.377	
Nitroglycerin	0.012	U	0.393	0.384	0.350	0.330	
PETN	0.012	U	0.393	0.384	0.347	0.354	
RDX	0.012	U	0.393	0.384	0.374	0.347	
Tetryl	0.012	U	0.393	0.384	0.435	0.418	

Client: UXB International, Inc. | Job Number: 280-22438-1

Method Blank - Batch: 280-94950

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-94950/1-A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-94950	Lab File ID:	019_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1208	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.20	U Q	0.070	6.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Nickel	0.90	U	0.30	3.0
Zinc	6.0	U	2.0	20

Lab Control Sample - Batch: 280-94950

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-94950/2-A	Analysis Batch:	280-96706	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-94950	Lab File ID:	040_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1309	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	41.1	103	85 - 115	Q
Copper	40.0	42.2	105	85 - 119	
Lead	40.0	42.2	105	85 - 118	
Nickel	40.0	42.1	105	85 - 119	
Zinc	40.0	43.9	110	83 - 122	

Post Digestion Spike - Batch: 280-94950

Method: 6020A
Preparation: 3005A
Dissolved

Lab Sample ID:	280-22438-1	Analysis Batch:	280-96706	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-94950	Lab File ID:	023PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1219	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.20	U	200	204	102	75 - 125	Q
Copper	1.5	J	200	192	95	75 - 125	
Lead	0.50	U	200	193	96	75 - 125	
Nickel	12		200	209	99	75 - 125	
Zinc	7.4	J	200	204	98	75 - 125	

Client: UXB International, Inc. Job Number: 280-22438-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94950

Method: 6020A
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-22438-1	Analysis Batch:	280-96706	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-94950	Lab File ID:	024_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1222			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				
Leach Date:	N/A				

MSD Lab Sample ID:	280-22438-1	Analysis Batch:	280-96706	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-94950	Lab File ID:	025_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1225			Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	106	106	85 - 115	0	20	Q	Q
Copper	102	102	85 - 119	0	20		
Lead	102	103	85 - 118	1	20		
Nickel	102	103	85 - 119	0	20		
Zinc	105	105	83 - 122	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94950

Method: 6020A
Preparation: 3005A
Dissolved

MS Lab Sample ID:	280-22438-1	Units:	ug/L	MSD Lab Sample ID:	280-22438-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/16/2011 1222			Analysis Date:	11/16/2011 1225
Prep Date:	11/15/2011 0615			Prep Date:	11/15/2011 0615
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.20	U	40.0	40.0	42.3	Q	42.4	Q
Copper	1.5	J	40.0	40.0	42.2		42.3	
Lead	0.50	U	40.0	40.0	40.9		41.3	
Nickel	12		40.0	40.0	52.6		52.6	
Zinc	7.4	J	40.0	40.0	49.4		49.2	

Client: UXB International, Inc. Job Number: 280-22438-1

Serial Dilution - Batch: 280-94950

Method: 6020A
Preparation: 3005A
Dissolved

Lab Sample ID:	280-22438-1	Analysis Batch:	280-96706	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-94950	Lab File ID:	022SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/16/2011 1216	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	11/15/2011 0615				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.20	U	1.0	NC	10	U Q
Copper	1.5	J	7.5	NC	10	U
Lead	0.50	U	2.5	NC	10	U
Nickel	12		11.6	NC	10	J D
Zinc	7.4	J	30	NC	10	U

Quality Control Results

Client: UXB International, Inc. | Job Number: 280-22438-1

Method Blank - Batch: 280-96043 | **Method: 6020A** | **Preparation: 3050B**

Lab Sample ID:	MB 280-96043/1-A	Analysis Batch:	280-96709	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-96043	Lab File ID:	175_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.02 g
Analysis Date:	11/16/2011 1940	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0615				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.039	U Q	0.014	0.20
Copper	0.0821	J	0.070	2.5
Lead	0.049	U	0.018	0.098
Nickel	0.0284	J	0.025	0.34
Zinc	0.88	U	0.31	2.5

Lab Control Sample - Batch: 280-96043 | **Method: 6020A** | **Preparation: 3050B**

Lab Sample ID:	LCS 280-96043/2-A	Analysis Batch:	280-96709	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-96043	Lab File ID:	176_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	11/16/2011 1943	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0615				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	18.9	16.7	88	82 - 110	Q
Copper	18.9	17.8	94	87 - 125	
Lead	18.9	17.9	95	81 - 125	
Nickel	18.9	17.9	95	90 - 113	
Zinc	18.9	17.6	93	85 - 119	

Post Digestion Spike - Batch: 280-96043 | **Method: 6020A** | **Preparation: 3050B**

Lab Sample ID:	280-22438-9	Analysis Batch:	280-96709	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-96043	Lab File ID:	179PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.18 g
Analysis Date:	11/16/2011 1952	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0615				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.068	J	102	101	99	75 - 125	Q
Copper	1.4	J	102	96.9	94	75 - 125	
Lead	15		102	113	96	75 - 125	
Nickel	3.7		102	104	99	75 - 125	
Zinc	21		102	115	93	75 - 125	

Client: UXB International, Inc. Job Number: 280-22438-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-96043

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-22438-9	Analysis Batch:	280-96709	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-96043	Lab File ID:	180_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	11/16/2011 1955			Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0615				
Leach Date:	N/A				

MSD Lab Sample ID:	280-22438-9	Analysis Batch:	280-96709	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-96043	Lab File ID:	184_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.17 g
Analysis Date:	11/16/2011 2006			Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0615				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	56	51	82 - 110	15	20	Q J	Q J
Copper	90	88	87 - 125	8	20		
Lead	97	88	81 - 125	9	20		
Nickel	92	91	90 - 113	7	20		
Zinc	93	83	85 - 119	9	20		J

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-96043

Method: 6020A
Preparation: 3050B

MS Lab Sample ID:	280-22438-9	Units:	mg/Kg	MSD Lab Sample ID:	280-22438-9
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/16/2011 1955			Analysis Date:	11/16/2011 2006
Prep Date:	11/15/2011 0615			Prep Date:	11/15/2011 0615
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.068	J	22.1	20.5	12.3	Q J	10.6	Q J
Copper	1.4	J	22.1	20.5	21.2		19.5	
Lead	15		22.1	20.5	36.0		32.8	
Nickel	3.7		22.1	20.5	24.0		22.5	
Zinc	21		22.1	20.5	41.2		37.8	J

Quality Control Results

Client: UXB International, Inc. Job Number: 280-22438-1

Serial Dilution - Batch: 280-96043

Method: 6020A
Preparation: 3050B

Lab Sample ID:	280-22438-9	Analysis Batch:	280-96709	Instrument ID:	MT_024
Client Matrix:	Solid	Prep Batch:	280-96043	Lab File ID:	178SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.18 g
Analysis Date:	11/16/2011 1949	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	11/15/2011 0615				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.068	J	0.20	NC	10	U Q
Copper	1.4	J	1.55	NC	10	J D
Lead	15		15.1	3.2	10	D
Nickel	3.7		4.00	8.3	10	D
Zinc	21		22.4	8.0	10	D

DATA REPORTING QUALIFIERS

Client: UXB International, Inc. Job Number: 280-22438-1

Lab Section	Qualifier	Description
Metals		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	Q	One or more quality control criteria failed.
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.
LCMS		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	M	Manual integrated compound.
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.

Client: UXB International, Inc.   Job Number: 280-22438-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-94950					
LCS 280-94950/2-A	Lab Control Sample	R	Water	3005A	
MB 280-94950/1-A	Method Blank	R	Water	3005A	
280-22438-1	MG37 GW006	D	Water	3005A	
280-22438-1MS	Matrix Spike	D	Water	3005A	
280-22438-1MSD	Matrix Spike Duplicate	D	Water	3005A	
280-22438-2	MG37 GW010	D	Water	3005A	
280-22438-3	MG38 GW007	D	Water	3005A	
280-22438-4	MG40 GW009	D	Water	3005A	
280-22438-5	TP02 GW011	D	Water	3005A	
280-22438-6	TP04 GW013	D	Water	3005A	
280-22438-7	TP04 GW014	D	Water	3005A	
280-22438-8	TP03 GW012	D	Water	3005A	
280-22438-12	CP29 GW002	D	Water	3005A	
280-22438-13	CP31 GW004	D	Water	3005A	
280-22438-14	CP31 GW005	D	Water	3005A	
280-22438-19	CP47 GW015	D	Water	3005A	
Prep Batch: 280-96043					
LCS 280-96043/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-96043/1-A	Method Blank	T	Solid	3050B	
280-22438-9	TP23 SB132	T	Solid	3050B	
280-22438-9MS	Matrix Spike	T	Solid	3050B	
280-22438-9MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-22438-10	TP24 SB133	T	Solid	3050B	
280-22438-15	CP44 SD014	T	Solid	3050B	
280-22438-16	CP45 SD015	T	Solid	3050B	
280-22438-17	CP45 SD016	T	Solid	3050B	
280-22438-18	CP46 SD017	T	Solid	3050B	

Client: UXB International, Inc.   Job Number: 280-22438-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-96706					
LCS 280-94950/2-A	Lab Control Sample	R	Water	6020A	280-94950
MB 280-94950/1-A	Method Blank	R	Water	6020A	280-94950
280-22438-1	MG37 GW006	D	Water	6020A	280-94950
280-22438-1MS	Matrix Spike	D	Water	6020A	280-94950
280-22438-1MSD	Matrix Spike Duplicate	D	Water	6020A	280-94950
280-22438-2	MG37 GW010	D	Water	6020A	280-94950
280-22438-3	MG38 GW007	D	Water	6020A	280-94950
280-22438-4	MG40 GW009	D	Water	6020A	280-94950
280-22438-5	TP02 GW011	D	Water	6020A	280-94950
280-22438-6	TP04 GW013	D	Water	6020A	280-94950
280-22438-7	TP04 GW014	D	Water	6020A	280-94950
280-22438-8	TP03 GW012	D	Water	6020A	280-94950
280-22438-12	CP29 GW002	D	Water	6020A	280-94950
280-22438-13	CP31 GW004	D	Water	6020A	280-94950
280-22438-14	CP31 GW005	D	Water	6020A	280-94950
280-22438-19	CP47 GW015	D	Water	6020A	280-94950
Analysis Batch:280-96709					
LCS 280-96043/2-A	Lab Control Sample	T	Solid	6020A	280-96043
MB 280-96043/1-A	Method Blank	T	Solid	6020A	280-96043
280-22438-9	TP23 SB132	T	Solid	6020A	280-96043
280-22438-9MS	Matrix Spike	T	Solid	6020A	280-96043
280-22438-9MSD	Matrix Spike Duplicate	T	Solid	6020A	280-96043
280-22438-10	TP24 SB133	T	Solid	6020A	280-96043
280-22438-15	CP44 SD014	T	Solid	6020A	280-96043
280-22438-16	CP45 SD015	T	Solid	6020A	280-96043
280-22438-17	CP45 SD016	T	Solid	6020A	280-96043
280-22438-18	CP46 SD017	T	Solid	6020A	280-96043

Report Basis

D = Dissolved

R = Total Recoverable

T = Total

Client: UXB International, Inc. Job Number: 280-22438-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-94996					
280-22438-9	TP23 SB132	T	Solid	Increm, Prep	
280-22438-9MS	Matrix Spike	T	Solid	Increm, Prep	
280-22438-9MSD	Matrix Spike Duplicate	T	Solid	Increm, Prep	
280-22438-10	TP24 SB133	T	Solid	Increm, Prep	
280-22438-15	CP44 SD014	T	Solid	Increm, Prep	
280-22438-16	CP45 SD015	T	Solid	Increm, Prep	
280-22438-17	CP45 SD016	T	Solid	Increm, Prep	
280-22438-18	CP46 SD017	T	Solid	Increm, Prep	
Prep Batch: 280-95077					
LCS 280-95077/2-A	Lab Control Sample	T	Water	3535	
LCSD 280-95077/3-A	Lab Control Sample Duplicate	T	Water	3535	
MB 280-95077/1-A	Method Blank	T	Water	3535	
280-22438-1	MG37 GW006	T	Water	3535	
280-22438-2	MG37 GW010	T	Water	3535	
280-22438-2DL	MG37 GW010	T	Water	3535	
280-22438-3	MG38 GW007	T	Water	3535	
280-22438-4	MG40 GW009	T	Water	3535	
280-22438-5	TP02 GW011	T	Water	3535	
280-22438-5DL	TP02 GW011	T	Water	3535	
280-22438-6	TP04 GW013	T	Water	3535	
280-22438-6DL	TP04 GW013	T	Water	3535	
280-22438-7	TP04 GW014	T	Water	3535	
280-22438-7DL	TP04 GW014	T	Water	3535	
280-22438-8	TP03 GW012	T	Water	3535	
280-22438-12	CP29 GW002	T	Water	3535	
280-22438-12DL	CP29 GW002	T	Water	3535	
280-22438-13	CP31 GW004	T	Water	3535	
280-22438-13DL	CP31 GW004	T	Water	3535	
280-22438-14	CP31 GW005	T	Water	3535	
280-22438-14DL	CP31 GW005	T	Water	3535	
280-22438-19	CP47 GW015	T	Water	3535	
280-22438-19DL	CP47 GW015	T	Water	3535	

Client: UXB International, Inc. Job Number: 280-22438-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Analysis Batch:280-95629					
LCS 280-95077/2-A	Lab Control Sample	T	Water	8321B	280-95077
LCSD 280-95077/3-A	Lab Control Sample Duplicate	T	Water	8321B	280-95077
MB 280-95077/1-A	Method Blank	T	Water	8321B	280-95077
280-22438-2DL	MG37 GW010	T	Water	8321B	280-95077
280-22438-5DL	TP02 GW011	T	Water	8321B	280-95077
280-22438-6DL	TP04 GW013	T	Water	8321B	280-95077
280-22438-7DL	TP04 GW014	T	Water	8321B	280-95077
280-22438-12DL	CP29 GW002	T	Water	8321B	280-95077
280-22438-13DL	CP31 GW004	T	Water	8321B	280-95077
280-22438-14DL	CP31 GW005	T	Water	8321B	280-95077
280-22438-19DL	CP47 GW015	T	Water	8321B	280-95077
Analysis Batch:280-95630					
280-22438-1	MG37 GW006	T	Water	8321B	280-95077
280-22438-2	MG37 GW010	T	Water	8321B	280-95077
280-22438-3	MG38 GW007	T	Water	8321B	280-95077
280-22438-4	MG40 GW009	T	Water	8321B	280-95077
280-22438-5	TP02 GW011	T	Water	8321B	280-95077
280-22438-6	TP04 GW013	T	Water	8321B	280-95077
280-22438-7	TP04 GW014	T	Water	8321B	280-95077
280-22438-8	TP03 GW012	T	Water	8321B	280-95077
280-22438-12	CP29 GW002	T	Water	8321B	280-95077
280-22438-13	CP31 GW004	T	Water	8321B	280-95077
280-22438-14	CP31 GW005	T	Water	8321B	280-95077
280-22438-19	CP47 GW015	T	Water	8321B	280-95077
Prep Batch: 280-95682					
LCS 280-95682/2-A	Lab Control Sample	T	Solid	8330B	
MB 280-95682/1-A	Method Blank	T	Solid	8330B	
280-22438-9	TP23 SB132	T	Solid	8330B	280-94996
280-22438-9MS	Matrix Spike	T	Solid	8330B	280-94996
280-22438-9MSD	Matrix Spike Duplicate	T	Solid	8330B	280-94996
280-22438-10	TP24 SB133	T	Solid	8330B	280-94996
280-22438-15	CP44 SD014	T	Solid	8330B	280-94996
280-22438-16	CP45 SD015	T	Solid	8330B	280-94996
280-22438-17	CP45 SD016	T	Solid	8330B	280-94996
280-22438-18	CP46 SD017	T	Solid	8330B	280-94996

Client: UXB International, Inc. Job Number: 280-22438-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Analysis Batch:280-96232					
LCS 280-95682/2-A	Lab Control Sample	T	Solid	8321B	280-95682
MB 280-95682/1-A	Method Blank	T	Solid	8321B	280-95682
280-22438-9	TP23 SB132	T	Solid	8321B	280-95682
280-22438-9MS	Matrix Spike	T	Solid	8321B	280-95682
280-22438-9MSD	Matrix Spike Duplicate	T	Solid	8321B	280-95682
280-22438-10	TP24 SB133	T	Solid	8321B	280-95682
280-22438-15	CP44 SD014	T	Solid	8321B	280-95682
280-22438-16	CP45 SD015	T	Solid	8321B	280-95682
280-22438-17	CP45 SD016	T	Solid	8321B	280-95682
280-22438-18	CP46 SD017	T	Solid	8321B	280-95682

Report Basis

T = Total

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-95047					
280-22438-9	TP23 SB132	T	Solid	Moisture	
280-22438-10	TP24 SB133	T	Solid	Moisture	
280-22438-15	CP44 SD014	T	Solid	Moisture	
280-22438-16	CP45 SD015	T	Solid	Moisture	
280-22438-17	CP45 SD016	T	Solid	Moisture	
280-22438-18	CP46 SD017	T	Solid	Moisture	

Report Basis

T = Total

Client: UXB International, Inc. Job Number: 280-22438-1

Laboratory Chronicle

Lab ID: **280-22438-1** **Client ID:** **MG37 GW006**

Sample Date/Time: 11/02/2011 08:50 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	280-22438-B-1-A		280-95630	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	280-22438-B-1-A		280-95630	280-95077	11/10/2011 16:03	1	TAL DEN	AGCM
P:3005A	280-22438-C-1-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-1-A		280-96706	280-94950	11/16/2011 12:14	1	TAL DEN	TEL

Lab ID: **280-22438-1 MS** **Client ID:** **MG37 GW006**

Sample Date/Time: 11/02/2011 08:50 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-22438-C-1-B MS		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-1-B MS		280-96706	280-94950	11/16/2011 12:22	1	TAL DEN	TEL

Lab ID: **280-22438-1 MSD** **Client ID:** **MG37 GW006**

Sample Date/Time: 11/02/2011 08:50 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-22438-C-1-C MSD		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-1-C MSD		280-96706	280-94950	11/16/2011 12:25	1	TAL DEN	TEL

Lab ID: **280-22438-1 SD** **Client ID:** **MG37 GW006**

Sample Date/Time: 11/02/2011 08:50 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-22438-C-1-A SD ^5		280-96706	280-94950	11/15/2011 06:15	5	TAL DEN	CLI
A:6020A	280-22438-C-1-A SD ^5		280-96706	280-94950	11/16/2011 12:16	5	TAL DEN	TEL
P:3005A	280-22438-C-1-A PDS		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-1-A PDS		280-96706	280-94950	11/16/2011 12:19	1	TAL DEN	TEL

Client: UXB International, Inc. Job Number: 280-22438-1

Laboratory Chronicle

Lab ID: **280-22438-2** **Client ID:** **MG37 GW010**

Sample Date/Time: 11/02/2011 08:50 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	280-22438-A-2-A	DL	280-95629	280-95077	11/07/2011 11:42	5	TAL DEN	KS
A:8321B	280-22438-A-2-A	DL	280-95629	280-95077	11/10/2011 13:13	5	TAL DEN	AGCM
P:3535	280-22438-A-2-A		280-95630	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	280-22438-A-2-A		280-95630	280-95077	11/10/2011 16:16	1	TAL DEN	AGCM
P:3005A	280-22438-C-2-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-2-A		280-96706	280-94950	11/16/2011 12:28	1	TAL DEN	TEL

Lab ID: **280-22438-3** **Client ID:** **MG38 GW007**

Sample Date/Time: 11/02/2011 10:08 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	280-22438-A-3-A		280-95630	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	280-22438-A-3-A		280-95630	280-95077	11/10/2011 16:28	1	TAL DEN	AGCM
P:3005A	280-22438-B-3-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-B-3-A		280-96706	280-94950	11/16/2011 12:31	1	TAL DEN	TEL

Lab ID: **280-22438-4** **Client ID:** **MG40 GW009**

Sample Date/Time: 11/02/2011 10:49 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	280-22438-A-4-A		280-95630	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	280-22438-A-4-A		280-95630	280-95077	11/10/2011 16:40	1	TAL DEN	AGCM
P:3005A	280-22438-C-4-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-4-A		280-96706	280-94950	11/16/2011 12:42	1	TAL DEN	TEL

Lab ID: **280-22438-5** **Client ID:** **TP02 GW011**

Sample Date/Time: 11/02/2011 13:17 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	280-22438-A-5-A	DL	280-95629	280-95077	11/07/2011 11:42	5	TAL DEN	KS
A:8321B	280-22438-A-5-A	DL	280-95629	280-95077	11/10/2011 13:49	5	TAL DEN	AGCM
P:3535	280-22438-A-5-A		280-95630	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	280-22438-A-5-A		280-95630	280-95077	11/10/2011 16:52	1	TAL DEN	AGCM
P:3005A	280-22438-C-5-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-5-A		280-96706	280-94950	11/16/2011 12:45	1	TAL DEN	TEL

Client: UXB International, Inc. Job Number: 280-22438-1

Laboratory Chronicle

Lab ID: **280-22438-6** **Client ID:** **TP04 GW013**

Sample Date/Time: 11/02/2011 14:55 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	280-22438-A-6-A	DL	280-95629	280-95077	11/07/2011 11:42	5	TAL DEN	KS
A:8321B	280-22438-A-6-A	DL	280-95629	280-95077	11/10/2011 14:14	5	TAL DEN	AGCM
P:3535	280-22438-A-6-A		280-95630	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	280-22438-A-6-A		280-95630	280-95077	11/10/2011 17:04	1	TAL DEN	AGCM
P:3005A	280-22438-C-6-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-6-A		280-96706	280-94950	11/16/2011 12:48	1	TAL DEN	TEL

Lab ID: **280-22438-7** **Client ID:** **TP04 GW014**

Sample Date/Time: 11/02/2011 14:55 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	280-22438-B-7-B	DL	280-95629	280-95077	11/07/2011 11:42	5	TAL DEN	KS
A:8321B	280-22438-B-7-B	DL	280-95629	280-95077	11/10/2011 14:26	5	TAL DEN	AGCM
P:3535	280-22438-B-7-B		280-95630	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	280-22438-B-7-B		280-95630	280-95077	11/10/2011 17:29	1	TAL DEN	AGCM
P:3005A	280-22438-C-7-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-7-A		280-96706	280-94950	11/16/2011 12:51	1	TAL DEN	TEL

Lab ID: **280-22438-8** **Client ID:** **TP03 GW012**

Sample Date/Time: 11/02/2011 15:33 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	280-22438-A-8-A		280-95630	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	280-22438-A-8-A		280-95630	280-95077	11/10/2011 17:41	1	TAL DEN	AGCM
P:3005A	280-22438-C-8-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-8-A		280-96706	280-94950	11/16/2011 12:54	1	TAL DEN	TEL

Lab ID: **280-22438-9** **Client ID:** **TP23 SB132**

Sample Date/Time: 11/02/2011 12:55 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22438-A-9-F		280-96232	280-95682	11/10/2011 15:50	1	TAL DEN	ACF
A:8321B	280-22438-A-9-F		280-96232	280-95682	11/14/2011 12:53	1	TAL DEN	AGCM
P:3050B	280-22438-B-9-A		280-96709	280-96043	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-B-9-A		280-96709	280-96043	11/16/2011 19:46	1	TAL DEN	TEL
A:Moisture	280-22438-B-9		280-95047		11/07/2011 08:11	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-22438-1

Laboratory Chronicle

Lab ID: **280-22438-9 MS** **Client ID:** **TP23 SB132**

Sample Date/Time: 11/02/2011 12:55 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22438-A-9-G MS		280-96232	280-95682	11/10/2011 15:50	1	TAL DEN	ACF
A:8321B	280-22438-A-9-G MS		280-96232	280-95682	11/14/2011 13:05	1	TAL DEN	AGCM
P:3050B	280-22438-B-9-B MS		280-96709	280-96043	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-B-9-B MS		280-96709	280-96043	11/16/2011 19:55	1	TAL DEN	TEL

Lab ID: **280-22438-9 MSD** **Client ID:** **TP23 SB132**

Sample Date/Time: 11/02/2011 12:55 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22438-A-9-H MSD		280-96232	280-95682	11/10/2011 15:50	1	TAL DEN	ACF
A:8321B	280-22438-A-9-H MSD		280-96232	280-95682	11/14/2011 13:17	1	TAL DEN	AGCM
P:3050B	280-22438-B-9-C MSD		280-96709	280-96043	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-B-9-C MSD		280-96709	280-96043	11/16/2011 20:06	1	TAL DEN	TEL

Lab ID: **280-22438-9 SD** **Client ID:** **TP23 SB132**

Sample Date/Time: 11/02/2011 12:55 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-22438-B-9-A SD ^5		280-96709	280-96043	11/15/2011 06:15	5	TAL DEN	CLI
A:6020A	280-22438-B-9-A SD ^5		280-96709	280-96043	11/16/2011 19:49	5	TAL DEN	TEL
P:3050B	280-22438-B-9-A PDS		280-96709	280-96043	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-B-9-A PDS		280-96709	280-96043	11/16/2011 19:52	1	TAL DEN	TEL

Lab ID: **280-22438-10** **Client ID:** **TP24 SB133**

Sample Date/Time: 11/02/2011 13:05 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22438-B-10-C		280-96232	280-95682	11/10/2011 15:50	1	TAL DEN	ACF
A:8321B	280-22438-B-10-C		280-96232	280-95682	11/14/2011 13:29	1	TAL DEN	AGCM
P:3050B	280-22438-A-10-A		280-96709	280-96043	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-A-10-A		280-96709	280-96043	11/16/2011 20:09	1	TAL DEN	TEL
A:Moisture	280-22438-A-10		280-95047		11/07/2011 08:11	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-22438-1

Laboratory Chronicle

Lab ID: 280-22438-12 **Client ID: CP29 GW002**

Sample Date/Time: 11/01/2011 13:05 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	280-22438-B-12-B	DL	280-95629	280-95077	11/07/2011 11:42	5	TAL DEN	KS
A:8321B	280-22438-B-12-B	DL	280-95629	280-95077	11/10/2011 15:03	5	TAL DEN	AGCM
P:3535	280-22438-B-12-B		280-95630	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	280-22438-B-12-B		280-95630	280-95077	11/10/2011 18:05	1	TAL DEN	AGCM
P:3005A	280-22438-C-12-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-12-A		280-96706	280-94950	11/16/2011 12:57	1	TAL DEN	TEL

Lab ID: 280-22438-13 **Client ID: CP31 GW004**

Sample Date/Time: 11/01/2011 14:56 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	280-22438-B-13-B	DL	280-95629	280-95077	11/07/2011 11:42	10	TAL DEN	KS
A:8321B	280-22438-B-13-B	DL	280-95629	280-95077	11/10/2011 15:15	10	TAL DEN	AGCM
P:3535	280-22438-B-13-B		280-95630	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	280-22438-B-13-B		280-95630	280-95077	11/10/2011 18:17	1	TAL DEN	AGCM
P:3005A	280-22438-C-13-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-13-A		280-96706	280-94950	11/16/2011 13:00	1	TAL DEN	TEL

Lab ID: 280-22438-14 **Client ID: CP31 GW005**

Sample Date/Time: 11/01/2011 14:56 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	280-22438-A-14-A	DL	280-95629	280-95077	11/07/2011 11:42	10	TAL DEN	KS
A:8321B	280-22438-A-14-A	DL	280-95629	280-95077	11/10/2011 15:27	10	TAL DEN	AGCM
P:3535	280-22438-A-14-A		280-95630	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	280-22438-A-14-A		280-95630	280-95077	11/10/2011 18:29	1	TAL DEN	AGCM
P:3005A	280-22438-C-14-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-14-A		280-96706	280-94950	11/16/2011 13:03	1	TAL DEN	TEL

Lab ID: 280-22438-15 **Client ID: CP44 SD014**

Sample Date/Time: 11/01/2011 16:01 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22438-A-15-C		280-96232	280-95682	11/10/2011 15:50	1	TAL DEN	ACF
A:8321B	280-22438-A-15-C		280-96232	280-95682	11/14/2011 13:42	1	TAL DEN	AGCM
P:3050B	280-22438-B-15-A		280-96709	280-96043	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-B-15-A		280-96709	280-96043	11/16/2011 20:12	1	TAL DEN	TEL
A:Moisture	280-22438-B-15		280-95047		11/07/2011 08:11	1	TAL DEN	PBB

Client: UXB International, Inc. Job Number: 280-22438-1

Laboratory Chronicle

Lab ID: **280-22438-16** **Client ID:** **CP45 SD015**

Sample Date/Time: 11/01/2011 15:50 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22438-B-16-C		280-96232	280-95682	11/10/2011 15:50	1	TAL DEN	ACF
A:8321B	280-22438-B-16-C		280-96232	280-95682	11/14/2011 13:54	1	TAL DEN	AGCM
P:3050B	280-22438-A-16-A		280-96709	280-96043	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-A-16-A		280-96709	280-96043	11/16/2011 20:15	1	TAL DEN	TEL
A:Moisture	280-22438-A-16		280-95047		11/07/2011 08:11	1	TAL DEN	PBB

Lab ID: **280-22438-17** **Client ID:** **CP45 SD016**

Sample Date/Time: 11/01/2011 15:50 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22438-B-17-C		280-96232	280-95682	11/10/2011 15:50	1	TAL DEN	ACF
A:8321B	280-22438-B-17-C		280-96232	280-95682	11/14/2011 14:06	1	TAL DEN	AGCM
P:3050B	280-22438-A-17-A		280-96709	280-96043	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-A-17-A		280-96709	280-96043	11/16/2011 20:18	1	TAL DEN	TEL
A:Moisture	280-22438-A-17		280-95047		11/07/2011 08:11	1	TAL DEN	PBB

Lab ID: **280-22438-18** **Client ID:** **CP46 SD017**

Sample Date/Time: 11/01/2011 15:40 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8330B	280-22438-A-18-C		280-96232	280-95682	11/10/2011 15:50	1	TAL DEN	ACF
A:8321B	280-22438-A-18-C		280-96232	280-95682	11/14/2011 14:18	1	TAL DEN	AGCM
P:3050B	280-22438-B-18-A		280-96709	280-96043	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-B-18-A		280-96709	280-96043	11/16/2011 20:21	1	TAL DEN	TEL
A:Moisture	280-22438-B-18		280-95047		11/07/2011 08:11	1	TAL DEN	PBB

Lab ID: **280-22438-19** **Client ID:** **CP47 GW015**

Sample Date/Time: 11/01/2011 13:15 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	280-22438-B-19-B	DL	280-95629	280-95077	11/07/2011 11:42	5	TAL DEN	KS
A:8321B	280-22438-B-19-B	DL	280-95629	280-95077	11/10/2011 15:39	5	TAL DEN	AGCM
P:3535	280-22438-B-19-B		280-95630	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	280-22438-B-19-B		280-95630	280-95077	11/10/2011 18:41	1	TAL DEN	AGCM
P:3005A	280-22438-C-19-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	280-22438-C-19-A		280-96706	280-94950	11/16/2011 13:06	1	TAL DEN	TEL

Client: UXB International, Inc. Job Number: 280-22438-1

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	MB 280-95077/1-A		280-95629	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	MB 280-95077/1-A		280-95629	280-95077	11/10/2011 12:24	1	TAL DEN	AGCM
P:8330B	MB 280-95682/1-A		280-96232	280-95682	11/10/2011 15:50	1	TAL DEN	ACF
A:8321B	MB 280-95682/1-A		280-96232	280-95682	11/14/2011 14:42	1	TAL DEN	AGCM
P:3005A	MB 280-94950/1-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	MB 280-94950/1-A		280-96706	280-94950	11/16/2011 12:08	1	TAL DEN	TEL
P:3050B	MB 280-96043/1-A		280-96709	280-96043	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	MB 280-96043/1-A		280-96709	280-96043	11/16/2011 19:40	1	TAL DEN	TEL

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	LCS 280-95077/2-A		280-95629	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	LCS 280-95077/2-A		280-95629	280-95077	11/10/2011 12:37	1	TAL DEN	AGCM
P:8330B	LCS 280-95682/2-A		280-96232	280-95682	11/10/2011 15:50	1	TAL DEN	ACF
A:8321B	LCS 280-95682/2-A		280-96232	280-95682	11/14/2011 14:55	1	TAL DEN	AGCM
P:3005A	LCS 280-94950/2-A		280-96706	280-94950	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	LCS 280-94950/2-A		280-96706	280-94950	11/16/2011 13:09	1	TAL DEN	TEL
P:3050B	LCS 280-96043/2-A		280-96709	280-96043	11/15/2011 06:15	1	TAL DEN	CLI
A:6020A	LCS 280-96043/2-A		280-96709	280-96043	11/16/2011 19:43	1	TAL DEN	TEL

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	LCSD 280-95077/3-A		280-95629	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	LCSD 280-95077/3-A		280-95629	280-95077	11/10/2011 12:49	1	TAL DEN	AGCM

Lab References:
TAL DEN = TestAmerica Denver

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
8321EXcalprim_00007	04/15/12	03/30/11	acn, Lot K06817	10 mL	8231NG_00004	1 mL	Nitroglycerin	10 ug/mL
					8321EX-Mix_00005	0.1 mL	1,3,5-Trinitrobenzene	10.01 ug/mL
							1,3-Dinitrobenzene	10.14 ug/mL
							2,4,6-Trinitrotoluene	10.01 ug/mL
							2,4-Dinitrotoluene	10.03 ug/mL
							2,6-Dinitrotoluene	10.01 ug/mL
							2-Amino-4,6-dinitrotoluene	10.01 ug/mL
							2-Nitrotoluene	9.91 ug/mL
							3-Nitrotoluene	9.88 ug/mL
							4-Amino-2,6-dinitrotoluene	9.87 ug/mL
							4-Nitrotoluene	9.95 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	9.99 ug/mL
							RDX	9.87 ug/mL
							Tetryl	9.94 ug/mL
					8321PETN_00004	1 mL	PETN	9.98 ug/mL
.8231NG_00004	09/13/12		Accustandard, Lot 210091093		(Purchased Reagent)		Nitroglycerin	100 ug/mL
.8321EX-Mix_00005	04/21/12		AccuStandard, Lot 209101177		(Purchased Reagent)		1,3,5-Trinitrobenzene	1001 ug/mL
							1,3-Dinitrobenzene	1014 ug/mL
							2,4,6-Trinitrotoluene	1001 ug/mL
							2,4-Dinitrotoluene	1003 ug/mL
							2,6-Dinitrotoluene	1001 ug/mL
							2-Amino-4,6-dinitrotoluene	1001 ug/mL
							2-Nitrotoluene	991 ug/mL
							3-Nitrotoluene	988 ug/mL
							4-Amino-2,6-dinitrotoluene	987 ug/mL
							4-Nitrotoluene	995 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	999 ug/mL
							RDX	987 ug/mL
							Tetryl	994 ug/mL
.8321PETN_00004	04/15/12		Accustandard, Lot 210041174		(Purchased Reagent)		PETN	99.8 ug/mL
8321expICV_00005	12/22/11	03/30/11	acn:0.1%HAC, Lot K06817	10 mL	EXP-SS-MIX_00003	100 uL	2,6-Dinitrotoluene	10 ug/mL
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							Tetryl	10 ug/mL
					EXP-SS-MIX1_00003	100 uL	1,3,5-Trinitrobenzene	9.99992 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 ug/mL
							2,4-Dinitrotoluene	9.99992 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
					EXP-SS-NG_00004	100 uL	Nitroglycerin	10 ug/mL
					EXP-SS-PETN_00003	100 uL	PETN	10 ug/mL
.EXP-SS-MIX_00003	12/22/11		Restek, Lot A060936		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.EXP-SS-MIX1_00003	12/22/11		Restek, Lot A057253		(Purchased Reagent)		1,3,5-Trinitrobenzene	999.992 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	999.992 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.EXP-SS-NG_00004	12/22/11		Restek, Lot A067062		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.EXP-SS-PETN_00003	12/22/11		Restek, Lot A067064		(Purchased Reagent)		PETN	1000 ug/mL
8321ExplosLCS_00011	03/26/12	11/03/11	Acetonitrile, Lot K27815	250 mL	8330 LCSMix2_00038	1 mL	2,6-Dinitrotoluene	4 ug/mL
							2-Amino-4,6-dinitrotoluene	4 ug/mL
							2-Nitrotoluene	4 ug/mL
							3-Nitrotoluene	4 ug/mL
							4-Amino-2,6-dinitrotoluene	4 ug/mL
							4-Nitrotoluene	4 ug/mL
							Tetryl	4 ug/mL
					8330LCSMix1_00038	1 mL	1,3,5-Trinitrobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							2,4,6-Trinitrotoluene	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							HMX	4 ug/mL
							Nitrobenzene	4 ug/mL
							RDX	4 ug/mL
					NG&PETNRestek_00024	0.1 mL	Nitroglycerin	4 ug/mL
							PETN	4 ug/mL
					PicricARestek_00022	0.1 mL	2,4,6-Trinitrophenol	0.4 ug/mL
.8330 LCSMix2_00038	09/30/14		Restek, Lot A069852		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.8330LCSMix1_00038	08/31/13		Restek, Lot A062123		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.NG&PETNRestek_00024	08/30/14		Restek, Lot A083634		(Purchased Reagent)		Nitroglycerin	10000 ug/mL
							PETN	10000 ug/mL
.PicricARestek_00022	02/28/16		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
8321ExplosLCS_00012	03/26/12	11/08/11	Acetonitrile, Lot ???	250 mL	8330 LCSMix2_00036	1 mL	2,6-Dinitrotoluene	4 ug/mL

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
							2-Amino-4,6-dinitrotoluene	4 ug/mL
							2-Nitrotoluene	4 ug/mL
							3-Nitrotoluene	4 ug/mL
							4-Amino-2,6-dinitrotoluene	4 ug/mL
							4-Nitrotoluene	4 ug/mL
							Tetryl	4 ug/mL
					8330LCSMix1_00035	1 mL	1,3,5-Trinitrobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							2,4,6-Trinitrotoluene	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							HMX	4 ug/mL
							Nitrobenzene	4 ug/mL
							RDX	4 ug/mL
					NG&PETNRestek_00024	0.1 mL	Nitroglycerin	4 ug/mL
							PETN	4 ug/mL
					PicricARestek_00023	0.1 mL	2,4,6-Trinitrophenol	0.4 ug/mL
.8330 LCSMix2_00036	09/30/14		Restek, Lot A069852		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.8330LCSMix1_00035	08/31/13		Restek, Lot A062123		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.NG&PETNRestek_00024	08/30/14		Restek, Lot A083634		(Purchased Reagent)		Nitroglycerin	10000 ug/mL
							PETN	10000 ug/mL
.PicricARestek_00023	02/28/16		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL
8321ExplosSur_00017	01/18/12	10/25/11	Acetonitrile, Lot K18824	200 mL	8321NB-D5-1_00004	66 uL	Nitrobenzene-d5	3.95307 ug/mL
.8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
..8321NB-D5_00002	01/20/16		Cambridge Isotope, Lot PR-20474/06199NB1		(Purchased Reagent)		Nitrobenzene-d5	99 %
8321ExplosSur_00019	01/18/12	10/31/11	Acetonitrile, Lot K30811	200 mL	8321NB-D5-1_00004	66 uL	Nitrobenzene-d5	3.95307 ug/mL
.8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
..8321NB-D5_00002	01/20/16		Cambridge Isotope, Lot PR-20474/06199NB1		(Purchased Reagent)		Nitrobenzene-d5	99 %
8321NB-D5-cal_00003	01/18/12	01/19/11	ACN, Lot j48808	10 mL	8321NB-D5-2_00003	1 mL	Nitrobenzene-d5	10.0025 ug/mL
.8321NB-D5-2_00003	01/18/12	01/19/11	ACN, Lot j48808	10 mL	8321NB-D5-1_00004	0.0835 mL	Nitrobenzene-d5	100.025 ug/mL
..8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
...8321NB-D5_00002	01/20/16		Cambridge Isotope, Lot PR-20474/06199NB1		(Purchased Reagent)		Nitrobenzene-d5	99 %
EXPWORKINGIS_00028	12/28/11	10/27/11	Acetonitrile, Lot K18824	10 mL	83212,4DNTIS_00004	0.125 mL	2,4-dinitrotoluene-d3	12.5 ug/mL
					8321HMX13C4IS_00008	0.125 mL	HMX-13C4	[illegible] ug/mL

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent Reagent ID	Parent Reagent Volume Added	Analyte	Concentration
					8321RDX13C3IS_00004	0.125 mL	Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3	12.5 ug/mL
					EXPDNBD4IS_00004	0.02 mL	1,3-Dinitrobenzene-d4	12.936 ug/mL
.83212,4DNTIS_00004	05/19/12		Cambridge Isotope, Lot SCBD-008		(Purchased Reagent)		2,4-dinitrotoluene-d3	1000 mg/L
.8321HMX13C4IS_00008	09/11/16		Cambridge Isotope, Lot SCGF-021		(Purchased Reagent)		HMX-13C4	1000 mg/L
.8321RDX13C3IS_00004	03/31/18		Cambridge Isotope, Lot SCIC-005		(Purchased Reagent)		Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3	1000 mg/L
.EXPDNBD4IS_00004	12/28/11	12/28/10	Acetonitrile, Lot h38619	10 mL	832113DNBD4IS_00002	0.066 g	1,3-Dinitrobenzene-d4	6468 ug/mL
..832113DNBD4IS_00002	01/16/14		Cambridge Isotope, Lot P-6201		(Purchased Reagent)		1,3-Dinitrobenzene-d4	98 %
MS CAL DAILY_00464	11/17/11	11/16/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
.MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
MS CALSTD-1_00053	10/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Ag	20 mg/L
							As	20 mg/L
							Ba	20 mg/L
							Be	20 mg/L
							Cd	20 mg/L
							Co	20 mg/L
							Copper	20 mg/L
							Cr	20 mg/L
							Lead	20 mg/L
							Mn	20 mg/L
							Nickel	20 mg/L
							Se	20 mg/L
							Th	20 mg/L
							Tl	20 mg/L
							U	20 mg/L
							V	20 mg/L
							Zinc	20 mg/L
MS CALSTD-2_00055	12/01/12		Inorganic Ventures, Lot E2-MEB394077		(Purchased Reagent)		Antimony	20 mg/L
							Mo	20 mg/L
							Sn	20 mg/L
MS CCV_00459	11/17/11	11/16/11	1% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.25 mL	Copper	50 ug/L
							Lead	50 ug/L
							Nickel	50 ug/L
							Zinc	50 ug/L
					MS CALSTD-2_00049	0.25 mL	Antimony	50 ug/L
.MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
.MS CALSTD-2_00049	09/01/12	Inorganic Ventures, Lot E2-MEB378112			(Purchased Reagent)		Antimony	20 mg/L
MS ICSA_00457	11/17/11	11/16/11	1% HNO3, Lot K23022	50 mL	MS ICSA STOCK_00010	5 mL	Mo	2000 ug/L
.MS ICSA STOCK_00010	10/01/12	Inorganic Ventures, Lot E2-MEB371022			(Purchased Reagent)		Mo	20 mg/L
MS ICSAB_00460	11/17/11	11/16/11	1% HNO3, Lot K23022	10 mL	MS CALSTD-1_00049	0.05 mL	Ag	100 ug/L
							As	100 ug/L
							Ba	100 ug/L
							Be	100 ug/L
							Cd	100 ug/L
							Co	100 ug/L
							Copper	100 ug/L
							Cr	100 ug/L
							Lead	100 ug/L
							Mn	100 ug/L
							Nickel	100 ug/L
							Se	100 ug/L
							Tl	100 ug/L
							U	100 ug/L
							V	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.05 mL	Antimony	100 ug/L
							Mo	2100 ug/L
							Sn	100 ug/L
					MS ICSA STOCK_00010	1 mL	Mo	2100 ug/L
.MS CALSTD-1_00049	09/01/12	Inorganic Ventures, Lot D2-MEB358015			(Purchased Reagent)		Ag	20 mg/L
							As	20 mg/L
							Ba	20 mg/L
							Be	20 mg/L
							Cd	20 mg/L
							Co	20 mg/L
							Copper	20 mg/L
							Cr	20 mg/L
							Lead	20 mg/L
							Mn	20 mg/L
							Nickel	20 mg/L
							Se	20 mg/L
							Tl	20 mg/L
							U	20 mg/L
							V	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12	Inorganic Ventures, Lot E2-MEB378112			(Purchased Reagent)		Antimony	20 mg/L
							Mo	20 mg/L
							Sn	20 mg/L
.MS ICSA STOCK_00010	10/01/12	Inorganic Ventures, Lot E2-MEB371022			(Purchased Reagent)		Mo	20 mg/L
MS ICV_00458	11/17/11	11/16/11	1% HNO3, Lot K23022	50 mL	MS ICV-A HP_00004	0.1 mL	Copper	40 ug/L
							Lead	40 ug/L
							Nickel	40 ug/L
							Zinc	40 ug/L
					MS ICV-B HP_00003	0.1 mL	Antimony	40 ug/L
.MS ICV-A HP_00004	03/16/12	HIGH PURITY, Lot 1107415			(Purchased Reagent)		Copper	[illegible]

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent Reagent ID	Parent Reagent Volume Added	Analyte	Concentration
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS ICV-B HP_00003	03/16/12		HIGH PURITY, Lot 1107417		(Purchased Reagent)		Antimony	20 mg/L
MS LCCV dly_00458	11/17/11	11/16/11	5% HNO3, Lot K23022	100 mL	MS LLCCV1_00004	1 mL	Copper	2 ug/L
							Lead	1 ug/L
							Nickel	2 ug/L
							Zinc	10 ug/L
					MS LLCCV2 IV_00004	1 mL	Antimony	2 ug/L
.MS LLCCV1_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366138		(Purchased Reagent)		Copper	0.2 mg/L
							Lead	0.1 mg/L
							Nickel	0.2 mg/L
							Zinc	1 mg/L
.MS LLCCV2 IV_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366139		(Purchased Reagent)		Antimony	0.2 mg/L
MS LCCV dly_00459	11/17/11	11/16/11	5% HNO3, Lot K23022	100 mL	MS LLCCV1_00005	1 mL	Copper	2 ug/L
							Lead	1 ug/L
							Nickel	2 ug/L
							Zinc	10 ug/L
					MS LLCCV2 IV_00005	1 mL	Antimony	2 ug/L
.MS LLCCV1_00005	11/14/12		Inorganic Ventures, Lot E2-MEB398127		(Purchased Reagent)		Copper	0.2 mg/L
							Lead	0.1 mg/L
							Nickel	0.2 mg/L
							Zinc	1 mg/L
.MS LLCCV2 IV_00005	11/14/12		Inorganic Ventures, Lot E2-MEB398128		(Purchased Reagent)		Antimony	0.2 mg/L
MS PDS 1 IV_00004	12/28/11		Inorganic Ventures, Lot D2-MEB357105		(Purchased Reagent)		Antimony	20 mg/L
MS PDS 2 IV_00007	10/01/12		Inorganic Ventures, Lot E2-MEB391126		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
MS RL STD_00469	11/17/11	11/16/11	1% HNO3, Lot K23022	10 mL	MS CAL DAILY_00464	0.1 mL	Copper	1 ug/L
							Lead	1 ug/L
							Nickel	1 ug/L
							Zinc	10 ug/L
							Antimony	1 ug/L
					MS Sn/Zn Mix_00005	0.09 mL	Zinc	10 ug/L
.MS CAL DAILY_00464	11/17/11	11/16/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
..MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
..MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
.MS Sn/Zn Mix_00005	12/01/11	02/16/11	5% HNO3, Lot J11046	50 mL	1000 Zn_00003	0.05 mL	Zinc	1 mg/L
..1000 Zn_00003	12/01/11		Inorganic Ventures, Lot d2-zn02065		(Purchased Reagent)		Zinc	1000 mg/L

Certification Summary

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8321B
Explosives

Nitroaromatics and Nitramines
(LC/MS/MS) by Method 8321B

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Matrix: Solid   Level: Low

GC Column (1): IonPac   ID: 2 (mm)

Client Sample ID	Lab Sample ID	NBZ	#
TP23 SB132	280-22438-9	94	
TP24 SB133	280-22438-10	100	
CP44 SD014	280-22438-15	81	
CP45 SD015	280-22438-16	91	
CP45 SD016	280-22438-17	90	
CP46 SD017	280-22438-18	96	
	MB 280-95682/1-A	98	
	LCS 280-95682/2-A	105	
TP23 SB132 MS	280-22438-9 MS	97	
TP23 SB132 MSD	280-22438-9 MSD	98	

	QC LIMITS
NBZ = Nitrobenzene-d5	68-140

Column to be used to flag recovery values

FORM II 8321B

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Matrix: Water   Level: Low

GC Column (1): IonPac   ID: 2 (mm)

Client Sample ID	Lab Sample ID	NBZ	#
MG37 GW006	280-22438-1	83	
MG37 GW010	280-22438-2	83	
MG37 GW010 DL	280-22438-2 DL	90	D
MG38 GW007	280-22438-3	84	
MG40 GW009	280-22438-4	87	
TP02 GW011	280-22438-5	75	
TP02 GW011 DL	280-22438-5 DL	91	D
TP04 GW013	280-22438-6	84	
TP04 GW013 DL	280-22438-6 DL	79	D
TP04 GW014	280-22438-7	76	
TP04 GW014 DL	280-22438-7 DL	90	D
TP03 GW012	280-22438-8	74	
CP29 GW002	280-22438-12	71	
CP29 GW002 DL	280-22438-12 DL	96	D
CP31 GW004	280-22438-13	95	
CP31 GW004 DL	280-22438-13 DL	81	D
CP31 GW005	280-22438-14	76	
CP31 GW005 DL	280-22438-14 DL	89	D
CP47 GW015	280-22438-19	63	
CP47 GW015 DL	280-22438-19 DL	89	D
	MB 280-95077/1-A	80	
	LCS 280-95077/2-A	72	
	LCSD 280-95077/3-A	67	

	QC LIMITS
NBZ = Nitrobenzene-d5	48-130

Column to be used to flag recovery values

FORM II 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: ex41K10014.d

Lab ID: LCS 280-95077/2-A   Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.500	0.445	89	54-145	
1,3-Dinitrobenzene	0.500	0.521	104	68-131	
2,4,6-Trinitrotoluene	0.500	0.208	42	20-147	
2,4-Dinitrotoluene	0.500	0.482	96	66-130	
2,6-Dinitrotoluene	0.500	0.449	90	64-133	
2-Amino-4,6-dinitrotoluene	0.500	0.462	92	64-138	
2-Nitrotoluene	0.500	0.365	73	34-131	
3-Nitrotoluene	0.500	0.415	83	36-133	
4-Amino-2,6-dinitrotoluene	0.500	0.481	96	65-131	
4-Nitrotoluene	0.500	0.402	80	40-137	
HMX	0.500	0.449	90	56-134	
Nitrobenzene	0.500	0.382	76	42-141	
Nitroglycerin	0.500	0.459	92	37-147	
PETN	0.500	0.464	93	10-198	
RDX	0.500	0.474	95	72-130	
Tetryl	0.500	0.163	33	15-134	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41K10126.d

Lab ID: LCS 280-95682/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.386	0.369	95	45-142	
1,3-Dinitrobenzene	0.386	0.425	110	74-130	
2,4,6-Trinitrotoluene	0.386	0.425	110	60-135	
2,4-Dinitrotoluene	0.386	0.375	97	63-130	
2,6-Dinitrotoluene	0.386	0.394	102	65-133	
2-Amino-4,6-dinitrotoluene	0.386	0.369	96	51-148	
2-Nitrotoluene	0.386	0.399	103	59-150	
3-Nitrotoluene	0.386	0.381	99	56-154	
4-Amino-2,6-dinitrotoluene	0.386	0.374	97	60-141	
4-Nitrotoluene	0.386	0.378	98	72-145	
HMX	0.386	0.362	94	48-131	
Nitrobenzene	0.386	0.407	105	70-140	
Nitroglycerin	0.386	0.360	93	27-146	
PETN	0.386	0.388	100	31-171	
RDX	0.386	0.366	95	69-130	
Tetryl	0.386	0.517	134	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Matrix: Water   Level: Low   Lab File ID: ex41K10015.d

Lab ID: LCSD 280-95077/3-A   Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.500	0.434	87	2	57	54-145	
1,3-Dinitrobenzene	0.500	0.476	95	9	39	68-131	
2,4,6-Trinitrotoluene	0.500	0.204	41	2	68	20-147	
2,4-Dinitrotoluene	0.500	0.474	95	2	46	66-130	
2,6-Dinitrotoluene	0.500	0.433	87	4	44	64-133	
2-Amino-4,6-dinitrotoluene	0.500	0.433	87	6	41	64-138	
2-Nitrotoluene	0.500	0.361	72	1	68	34-131	
3-Nitrotoluene	0.500	0.345	69	19	89	36-133	
4-Amino-2,6-dinitrotoluene	0.500	0.436	87	10	36	65-131	
4-Nitrotoluene	0.500	0.354	71	13	72	40-137	
HMX	0.500	0.428	86	5	34	56-134	
Nitrobenzene	0.500	0.379	76	1	58	42-141	
Nitroglycerin	0.500	0.458	92	0	71	37-147	
PETN	0.500	0.519	104	11	50	10-198	
RDX	0.500	0.469	94	1	25	72-130	
Tetryl	0.500	0.155	31	5	51	15-134	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41K10117.d

Lab ID: 280-22438-9 MS Client ID: TP23 SB132 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.393	0.024 U	0.332	84	45-142	
1,3-Dinitrobenzene	0.393	0.012 U	0.374	95	74-130	
2,4,6-Trinitrotoluene	0.393	0.012 U	0.366	93	60-135	
2,4-Dinitrotoluene	0.393	0.012 U	0.357	91	63-130	
2,6-Dinitrotoluene	0.393	0.024 U	0.345	88	65-133	
2-Amino-4,6-dinitrotoluene	0.393	0.024 U	0.325	83	51-148	
2-Nitrotoluene	0.393	0.012 U	0.353	90	59-150	
3-Nitrotoluene	0.393	0.024 U	0.361	92	56-154	
4-Amino-2,6-dinitrotoluene	0.393	0.012 U	0.341	87	60-141	
4-Nitrotoluene	0.393	0.024 U	0.348	89	72-145	
HMX	0.393	0.012 U	0.344	88	48-131	
Nitrobenzene	0.393	0.012 U	0.396	101	70-140	
Nitroglycerin	0.393	0.012 U	0.350	89	27-146	
PETN	0.393	0.012 U	0.347	88	31-171	
RDX	0.393	0.012 U	0.374	95	69-130	
Tetryl	0.393	0.012 U	0.435	111	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: ex41K10118.d

Lab ID: 280-22438-9 MSD Client ID: TP23 SB132 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,3,5-Trinitrobenzene	0.384	0.328	85	1	70	45-142	
1,3-Dinitrobenzene	0.384	0.369	96	1	25	74-130	
2,4,6-Trinitrotoluene	0.384	0.361	94	1	25	60-135	
2,4-Dinitrotoluene	0.384	0.363	95	2	25	63-130	M
2,6-Dinitrotoluene	0.384	0.351	92	2	25	65-133	
2-Amino-4,6-dinitrotoluene	0.384	0.311	81	4	25	51-148	
2-Nitrotoluene	0.384	0.366	95	4	45	59-150	
3-Nitrotoluene	0.384	0.365	95	1	25	56-154	
4-Amino-2,6-dinitrotoluene	0.384	0.349	91	2	48	60-141	
4-Nitrotoluene	0.384	0.347	90	0	25	72-145	
HMX	0.384	0.345	90	0	25	48-131	
Nitrobenzene	0.384	0.377	98	5	25	70-140	
Nitroglycerin	0.384	0.330	86	6	92	27-146	
PETN	0.384	0.354	92	2	40	31-171	
RDX	0.384	0.347	90	8	25	69-130	
Tetryl	0.384	0.418	109	4	50	10-170	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG No.:

Lab File ID: ex41K10013.d | Lab Sample ID: MB 280-95077/1-A

Matrix: Water | Date Extracted: 11/07/2011 11:42

Instrument ID: LC_LCMS4 | Date Analyzed: 11/10/2011 12:24

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-95077/2-A	ex41K10014.d	11/10/2011 12:37
	LCSD 280-95077/3-A	ex41K10015.d	11/10/2011 12:49
MG37 GW010 DL	280-22438-2 DL	ex41K10017.d	11/10/2011 13:13
TP02 GW011 DL	280-22438-5 DL	ex41K10020.d	11/10/2011 13:49
TP04 GW013 DL	280-22438-6 DL	ex41K10022.d	11/10/2011 14:14
TP04 GW014 DL	280-22438-7 DL	ex41K10023.d	11/10/2011 14:26
CP29 GW002 DL	280-22438-12 DL	ex41K10026.d	11/10/2011 15:03
CP31 GW004 DL	280-22438-13 DL	ex41K10027.d	11/10/2011 15:15
CP31 GW005 DL	280-22438-14 DL	ex41K10028.d	11/10/2011 15:27
CP47 GW015 DL	280-22438-19 DL	ex41K10029.d	11/10/2011 15:39
MG37 GW006	280-22438-1	ex41K10031.d	11/10/2011 16:03
MG37 GW010	280-22438-2	ex41K10032.d	11/10/2011 16:16
MG38 GW007	280-22438-3	ex41K10033.d	11/10/2011 16:28
MG40 GW009	280-22438-4	ex41K10034.d	11/10/2011 16:40
TP02 GW011	280-22438-5	ex41K10035.d	11/10/2011 16:52
TP04 GW013	280-22438-6	ex41K10036.d	11/10/2011 17:04
TP04 GW014	280-22438-7	ex41K10038.d	11/10/2011 17:29
TP03 GW012	280-22438-8	ex41K10039.d	11/10/2011 17:41
CP29 GW002	280-22438-12	ex41K10041.d	11/10/2011 18:05
CP31 GW004	280-22438-13	ex41K10042.d	11/10/2011 18:17
CP31 GW005	280-22438-14	ex41K10043.d	11/10/2011 18:29
CP47 GW015	280-22438-19	ex41K10044.d	11/10/2011 18:41

FORM IV 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Lab File ID: ex41K10125.d Lab Sample ID: MB 280-95682/1-A

Matrix: Solid Date Extracted: 11/10/2011 15:50

Instrument ID: LC_LCMS4 Date Analyzed: 11/14/2011 14:42

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
TP23 SB132	280-22438-9	ex41K10116.d	11/14/2011 12:53
TP23 SB132 MS	280-22438-9 MS	ex41K10117.d	11/14/2011 13:05
TP23 SB132 MSD	280-22438-9 MSD	ex41K10118.d	11/14/2011 13:17
TP24 SB133	280-22438-10	ex41K10119.d	11/14/2011 13:29
CP44 SD014	280-22438-15	ex41K10120.d	11/14/2011 13:42
CP45 SD015	280-22438-16	ex41K10121.d	11/14/2011 13:54
CP45 SD016	280-22438-17	ex41K10122.d	11/14/2011 14:06
CP46 SD017	280-22438-18	ex41K10123.d	11/14/2011 14:18
	LCS 280-95682/2-A	ex41K10126.d	11/14/2011 14:55

FORM IV 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 11/10/2011 10:21

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 11/10/2011 11:34

Calibration ID: 7774

		HXC4		HHTT		DNB4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		742762	2.06	2664840	3.03	1846598	4.97
UPPER LIMIT		1485524	2.56	5329680	3.53	3693196	5.47
LOWER LIMIT		371381	1.56	1332420	2.53	923299	4.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 280-95626/8		826307	2.06	2610667	3.03	1894140	4.99
ICV 280-95626/10		644949	2.06	2693593	3.03	1985956	4.99
MB 280-95077/1-A		691893	2.06	2834862	3.11	1736720	5.03
LCS 280-95077/2-A		730574	2.06	2572681	3.07	1854587	5.03
LCSD 280-95077/3-A		682416	2.06	2475529	3.07	1804961	5.04
280-22438-2 DL	MG37 GW010 DL	650574	2.06	2604514	3.07	1744862	4.99
280-22438-5 DL	TP02 GW011 DL	769648	2.06	2598920	3.03	1713881	4.99
CCV 280-95629/19		800380	2.06	2657549	3.03	1898911	4.95
280-22438-6 DL	TP04 GW013 DL	771309	2.06	2783802	3.03	2018479	4.99
280-22438-7 DL	TP04 GW014 DL	700405	2.06	2769469	3.03	1850847	4.99
280-22438-12 DL	CP29 GW002 DL	704029	2.06	2262687	3.03	1616974	4.99
280-22438-13 DL	CP31 GW004 DL	756740	2.06	2736444	3.03	1611293	4.95
280-22438-14 DL	CP31 GW005 DL	726014	2.06	2972882	3.03	1790027	4.95
280-22438-19 DL	CP47 GW015 DL	677094	2.06	2575245	3.03	1882265	4.99
CCV 280-95629/28		836351	2.06	2890487	3.03	1829870	4.95
CCV 280-95630/28		836351	2.06	2890487	3.03	1829870	4.95
280-22438-1	MG37 GW006	403535	2.06	2506614	3.07	1866688	4.99
280-22438-2	MG37 GW010	321340Q	2.06	2075430	3.07	1630654	4.99
280-22438-3	MG38 GW007	416736	2.06	2040431	3.07	1649964	4.99
280-22438-4	MG40 GW009	456502	2.06	2255259	3.07	1553561	4.95
280-22438-5	TP02 GW011	330264Q	2.06	1935542	3.07	1665038	4.99
280-22438-6	TP04 GW013	262108Q	2.06	1664267	3.07	1655536	4.99
CCV 280-95630/35		757407	2.06	2856908	3.03	1846735	4.95
280-22438-7	TP04 GW014	305131Q	2.06	1745399	3.07	1893251	5.04
280-22438-8	TP03 GW012	379269	2.06	2027064	3.07	2013260	4.99
280-22438-12	CP29 GW002	242816Q	2.06	1987391	3.07	1920262	4.99
280-22438-13	CP31 GW004	246121Q	2.06	1698815	3.07	1728954	5.04
280-22438-14	CP31 GW005	234727Q	2.06	935618Q	3.07	1837268	4.99
280-22438-19	CP47 GW015	363674Q	2.06	1973271	3.07	1931337	4.99
CCV 280-95630/43		728168	2.06	2608006	3.03	1615374	4.95

HXC4 = HMX-13C4
HHTT = Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3
DNB4 = 1,3-Dinitrobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 11/10/2011 10:21

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 11/10/2011 11:34

Calibration ID: 7774

		HXC4		HHTT		DNB4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		742762	2.06	2664840	3.03	1846598	4.97
UPPER LIMIT		1485524	2.56	5329680	3.53	3693196	5.47
LOWER LIMIT		371381	1.56	1332420	2.53	923299	4.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 280-96232/68		819162	2.06	2993471	3.03	1688940	4.95
280-22438-9	TP23 SB132	833105	2.06	2414681	3.03	1820030	4.95
280-22438-9 MS	TP23 SB132 MS	726655	2.06	2563250	3.03	1569860	4.95
280-22438-9 MSD	TP23 SB132 MSD	754622	2.06	2621293	3.03	1647298	4.95
280-22438-10	TP24 SB133	964179	2.06	3266185	3.03	1765140	4.95
280-22438-15	CP44 SD014	984732	2.06	3086143	3.03	1931562	4.95
280-22438-16	CP45 SD015	980862	2.06	3341846	3.03	1629007	4.95
280-22438-17	CP45 SD016	926927	2.06	2853256	3.03	1763116	4.95
280-22438-18	CP46 SD017	1000139	2.06	2908125	3.03	1637105	4.95
CCV 280-96232/77		867442	2.06	3007902	3.03	1763751	4.95
MB 280-95682/1-A		866807	2.06	2440692	3.03	1472993	4.95
LCS 280-95682/2-A		870102	2.06	3083044	3.03	1683166	4.95
CCV 280-96232/86		839316	2.06	2903589	3.03	1688815	4.91

HXC4 = HMX-13C4
HHTT = Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3
DNB4 = 1,3-Dinitrobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Instrument ID: LC_LCMS4 Calibration Start Date: 11/10/2011 10:21

GC Column: IonPac ID: 2(mm) Calibration End Date: 11/10/2011 11:34

Calibration ID: 7774

		DNT3					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		5203729	7.19				
UPPER LIMIT		10407458	7.69				
LOWER LIMIT		2601865	6.69				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 280-95626/8		5104410	7.26				
ICV 280-95626/10		5415194	7.26				
MB 280-95077/1-A		4510410	7.32				
LCS 280-95077/2-A		4691186	7.29				
LCSD 280-95077/3-A		5162191	7.29				
280-22438-2 DL	MG37 GW010 DL	4970569	7.26				
280-22438-5 DL	TP02 GW011 DL	5295221	7.23				
CCV 280-95629/19		5165297	7.20				
280-22438-6 DL	TP04 GW013 DL	4548087	7.20				
280-22438-7 DL	TP04 GW014 DL	4910804	7.20				
280-22438-12 DL	CP29 GW002 DL	4087958	7.23				
280-22438-13 DL	CP31 GW004 DL	4432652	7.20				
280-22438-14 DL	CP31 GW005 DL	5324931	7.20				
280-22438-19 DL	CP47 GW015 DL	5085001	7.23				
CCV 280-95629/28		4464441	7.17				
CCV 280-95630/28		4464441	7.17				
280-22438-1	MG37 GW006	4468636	7.23				
280-22438-2	MG37 GW010	4842556	7.23				
280-22438-3	MG38 GW007	4566854	7.20				
280-22438-4	MG40 GW009	4432667	7.11				
280-22438-5	TP02 GW011	3968690	7.26				
280-22438-6	TP04 GW013	4339539	7.26				
CCV 280-95630/35		5187215	7.20				
280-22438-7	TP04 GW014	4882414	7.26				
280-22438-8	TP03 GW012	4675740	7.26				
280-22438-12	CP29 GW002	5116119	7.23				
280-22438-13	CP31 GW004	5034184	7.26				
280-22438-14	CP31 GW005	4829486	7.23				
280-22438-19	CP47 GW015	4529624	7.26				
CCV 280-95630/43		5263730	7.20				

DNT3 = 2,4-dinitrotoluene-d3

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 11/10/2011 10:21

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 11/10/2011 11:34

Calibration ID: 7774

		DNT3					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		5203729	7.19				
UPPER LIMIT		10407458	7.69				
LOWER LIMIT		2601865	6.69				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 280-96232/68		4602511	7.20				
280-22438-9	TP23 SB132	4918885	7.17				
280-22438-9 MS	TP23 SB132 MS	4920493	7.20				
280-22438-9 MSD	TP23 SB132 MSD	4658787	7.20				
280-22438-10	TP24 SB133	5355259	7.20				
280-22438-15	CP44 SD014	4818305	7.17				
280-22438-16	CP45 SD015	5027406	7.17				
280-22438-17	CP45 SD016	4927294	7.17				
280-22438-18	CP46 SD017	5100282	7.17				
CCV 280-96232/77		4720862	7.17				
MB 280-95682/1-A		4499308	7.17				
LCS 280-95682/2-A		4872932	7.17				
CCV 280-96232/86		5001789	7.14				

DNT3 = 2,4-dinitrotoluene-d3

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Client Sample ID: MG37 GW006 Lab Sample ID: 280-22438-1

Matrix: Water Lab File ID: ex41K10031.d

Analysis Method: 8321B Date Collected: 11/02/2011 08:50

Extraction Method: 3535 Date Extracted: 11/07/2011 11:42

Sample wt/vol: 998.5(mL) Date Analyzed: 11/10/2011 16:03

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95630 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.10	0.050	0.017
99-65-0	1,3-Dinitrobenzene	0.050	U	0.10	0.050	0.014
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.10	0.050	0.022
121-14-2	2,4-Dinitrotoluene	0.050	U	0.10	0.050	0.019
606-20-2	2,6-Dinitrotoluene	0.050	U	0.10	0.050	0.022
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.10	0.050	0.021
88-72-2	2-Nitrotoluene	0.050	U	0.10	0.050	0.022
99-08-1	3-Nitrotoluene	0.050	U	0.10	0.050	0.025
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.10	0.050	0.019
99-99-0	4-Nitrotoluene	0.050	U	0.10	0.050	0.026
2691-41-0	HMX	0.050	U	0.10	0.050	0.019
98-95-3	Nitrobenzene	0.050	U	0.10	0.050	0.033
55-63-0	Nitroglycerin	0.050	U	0.14	0.050	0.045
78-11-5	PETN	0.050	U	0.10	0.050	0.018
121-82-4	RDX	0.050	U	0.10	0.050	0.021
479-45-8	Tetryl	0.050	U	0.10	0.050	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10031.d		
Lims ID:	280-22438-B-1-A	Client ID:	MG37 GW006
Inject. Date:	10-Nov-2011 16:03:49	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-B-1-A 280-0002741-029		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	46
Lims Batch ID:	95630	Lims Sample ID:	29
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:31	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:32:59

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		403535	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		2506614	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1866688	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	666142	81.8			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		4468636	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

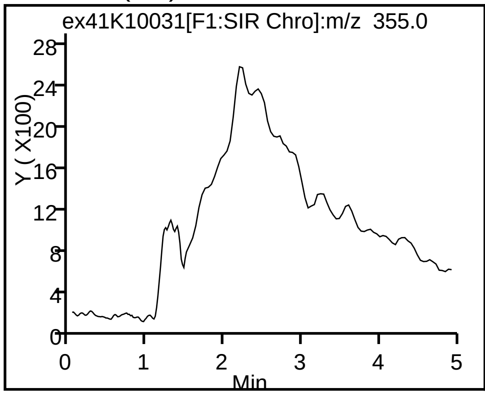
QC Flag Legend

Processing Flags
1 - Missing Peaks

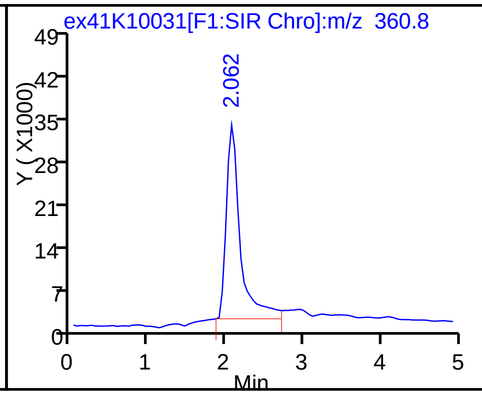
Report Date: 11-Nov-2011 06:40:33 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10031.d

Injection Date:	10-Nov-2011 16:03:49	Limit Group:	LC - 8321A Expl
Client ID:	MG37 GW006	Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	29
Operator ID:		Injection Vol:	40.00 ul

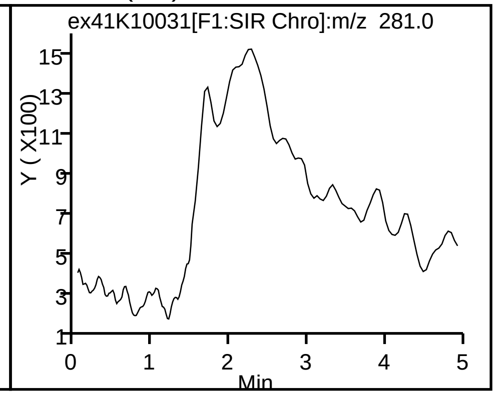
2 HMX (ND)



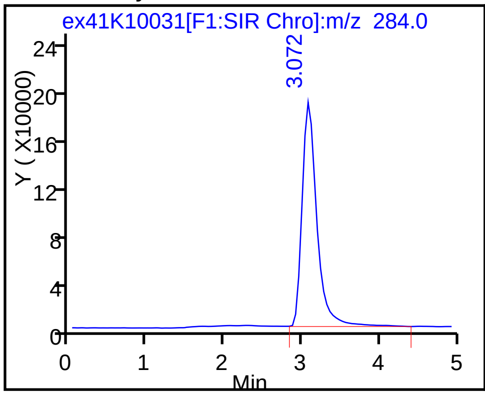
* 1 HMX-13C4



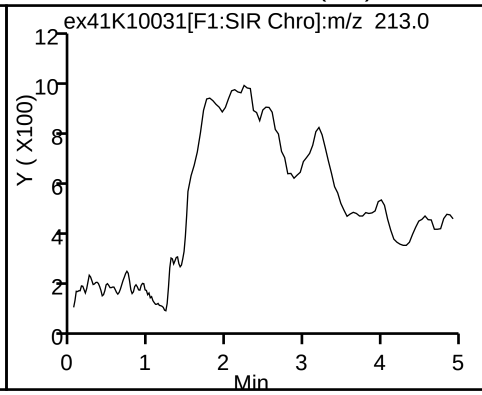
4 RDX (ND)



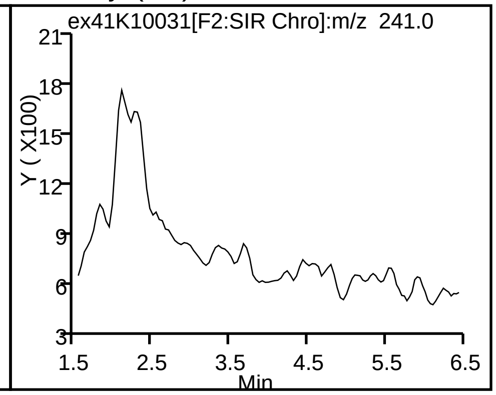
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



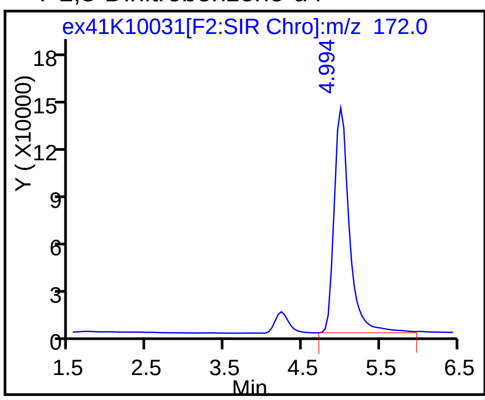
5 1,3,5-Trinitrobenzene (ND)



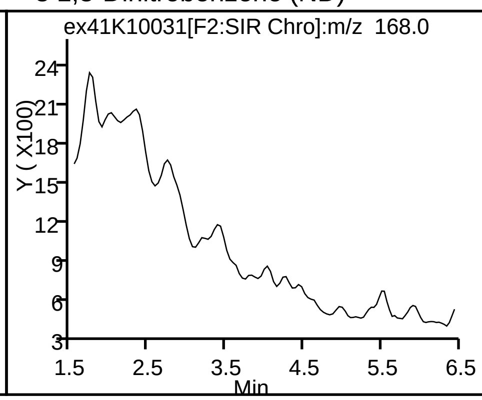
6 Tetryl (ND)



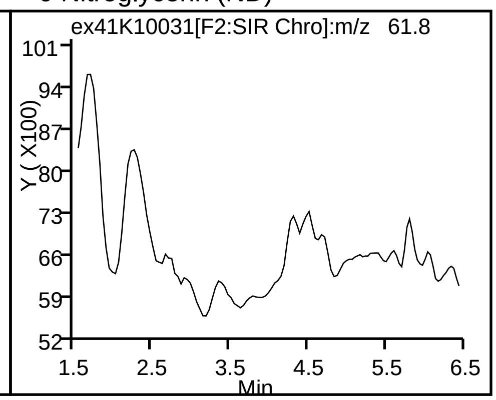
* 7 1,3-Dinitrobenzene-d4



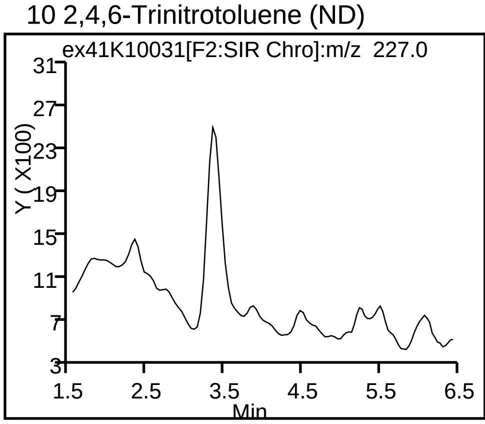
8 1,3-Dinitrobenzene (ND)



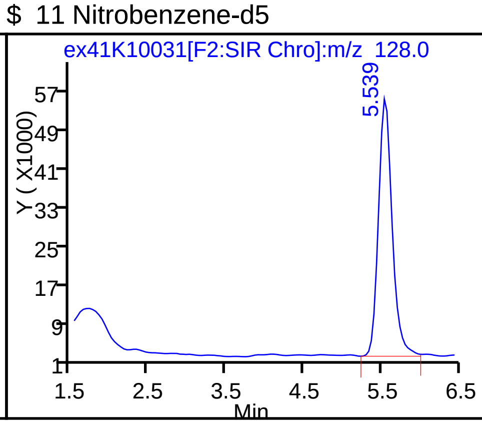
9 Nitroglycerin (ND)



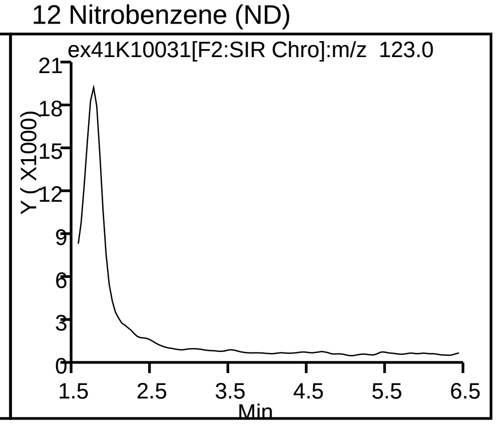
10 2,4,6-Trinitrotoluene (ND)



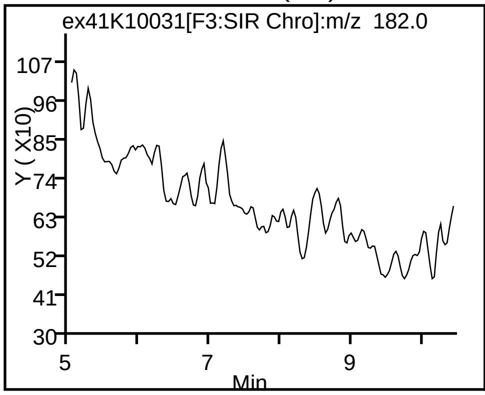
$ 11 Nitrobenzene-d5



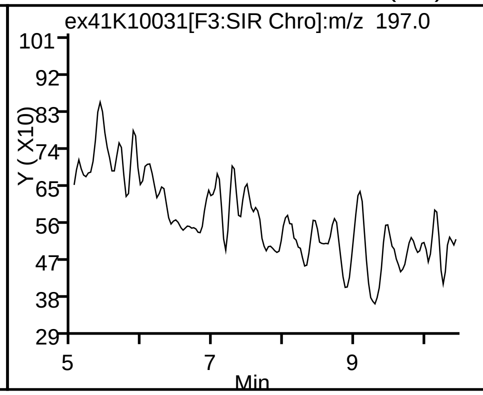
12 Nitrobenzene (ND)



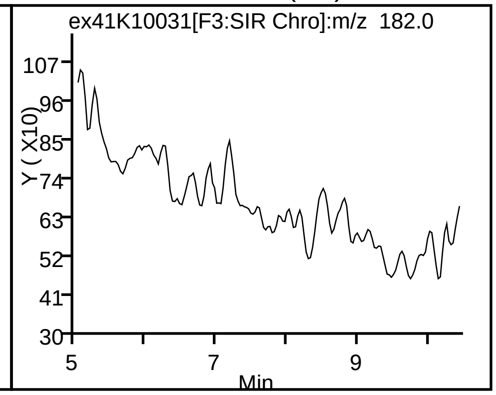
13 3,4-Dinitrotoluene (ND)



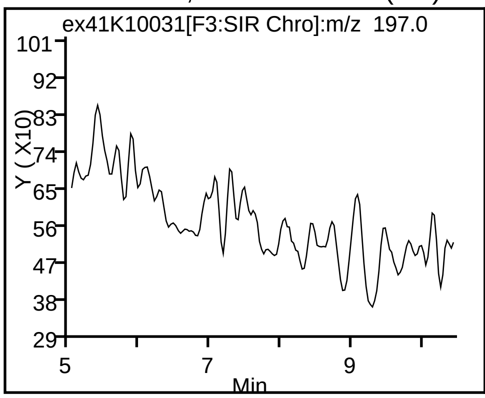
14 4-Amino-2,6-dinitrotoluene (ND)



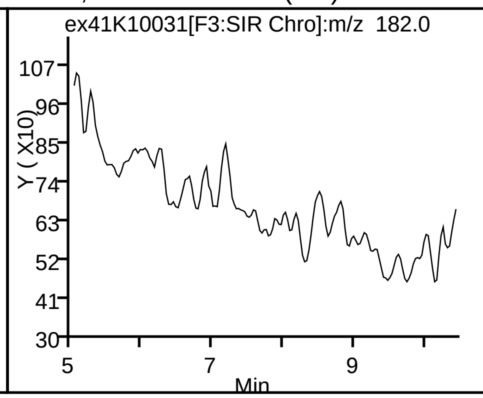
15 2,3-Dinitrotoluene (ND)



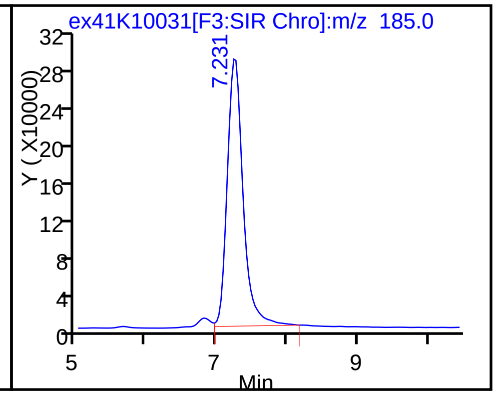
16 2-Amino-4,6-dinitrotoluene (ND)



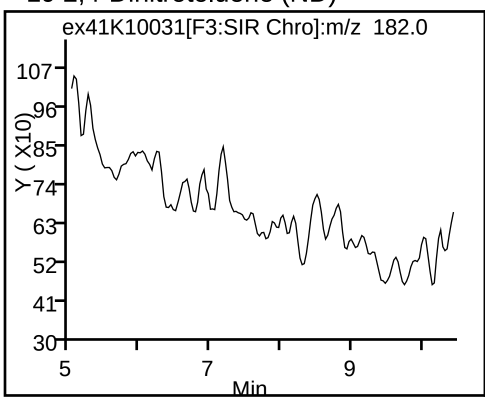
17 2,6-Dinitrotoluene (ND)



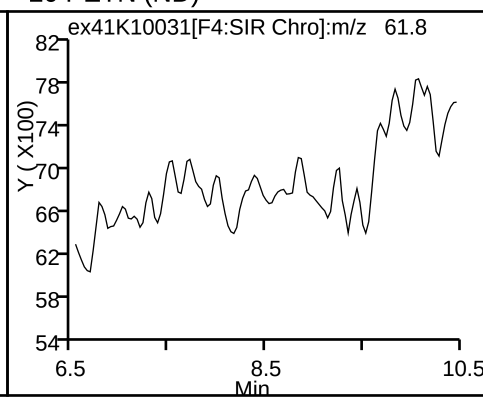
* 18 2,4-dinitrotoluene-d3



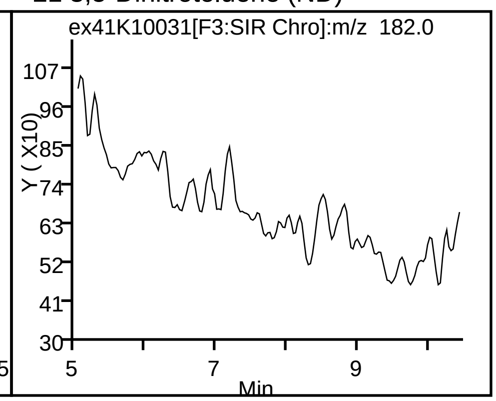
19 2,4-Dinitrotoluene (ND)



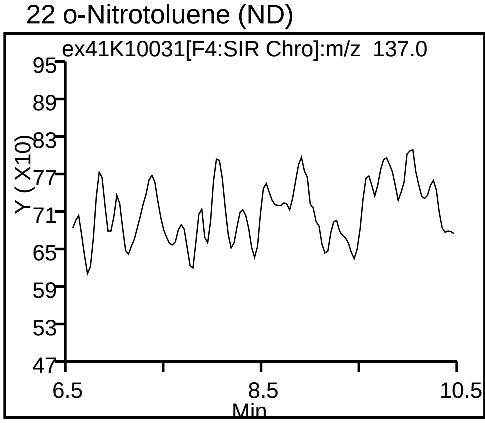
20 PETN (ND)



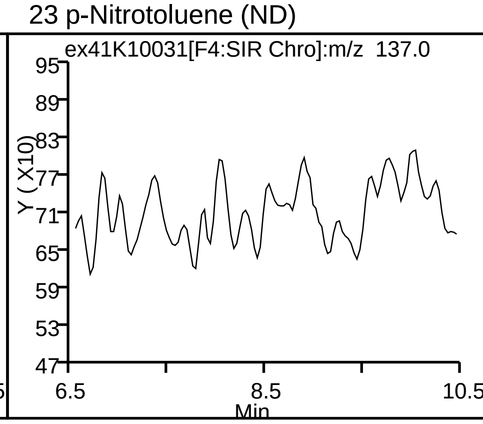
21 3,5-Dinitrotoluene (ND)



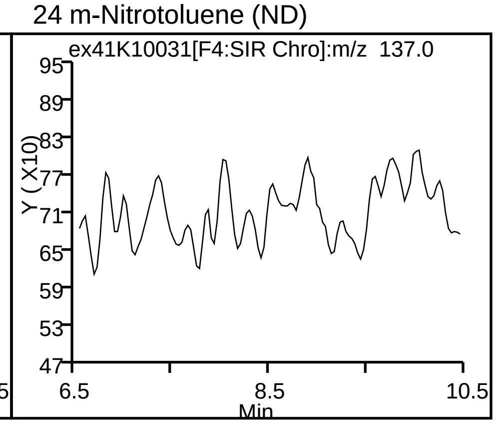
22 o-Nitrotoluene (ND)



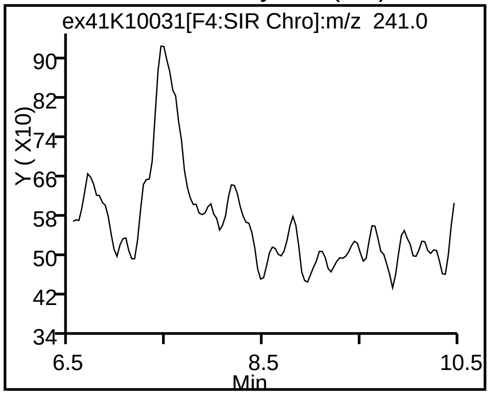
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I

LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Client Sample ID: MG37 GW010 Lab Sample ID: 280-22438-2

Matrix: Water Lab File ID: ex41K10032.d

Analysis Method: 8321B Date Collected: 11/02/2011 08:50

Extraction Method: 3535 Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1045(mL) Date Analyzed: 11/10/2011 16:16

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95630 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.048	U	0.096	0.048	0.016
99-65-0	1,3-Dinitrobenzene	0.048	U	0.096	0.048	0.013
118-96-7	2,4,6-Trinitrotoluene	0.048	U	0.096	0.048	0.021
121-14-2	2,4-Dinitrotoluene	0.048	U	0.096	0.048	0.018
606-20-2	2,6-Dinitrotoluene	0.048	U	0.096	0.048	0.021
35572-78-2	2-Amino-4,6-dinitrotoluene	0.048	U	0.096	0.048	0.020
88-72-2	2-Nitrotoluene	0.15		0.096	0.048	0.021
99-08-1	3-Nitrotoluene	0.026	J	0.096	0.048	0.024
19406-51-0	4-Amino-2,6-dinitrotoluene	0.048	U	0.096	0.048	0.018
99-99-0	4-Nitrotoluene	0.17		0.096	0.048	0.025
98-95-3	Nitrobenzene	0.048	U	0.096	0.048	0.032
55-63-0	Nitroglycerin	0.048	U	0.13	0.048	0.043
78-11-5	PETN	0.048	U	0.096	0.048	0.017
121-82-4	RDX	0.048	U	0.096	0.048	0.020
479-45-8	Tetryl	0.048	U	0.096	0.048	0.020

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10032.d		
Lims ID:	280-22438-A-2-A	Client ID:	MG37 GW010
Inject. Date:	10-Nov-2011 16:16:10	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-A-2-A 280-0002741-030		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	47
Lims Batch ID:	95630	Lims Sample ID:	30
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:31	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:33:13

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										s
1	360.8	2.062	2.062	0.000		321340	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		2075430	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1630654	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	581077	81.6			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

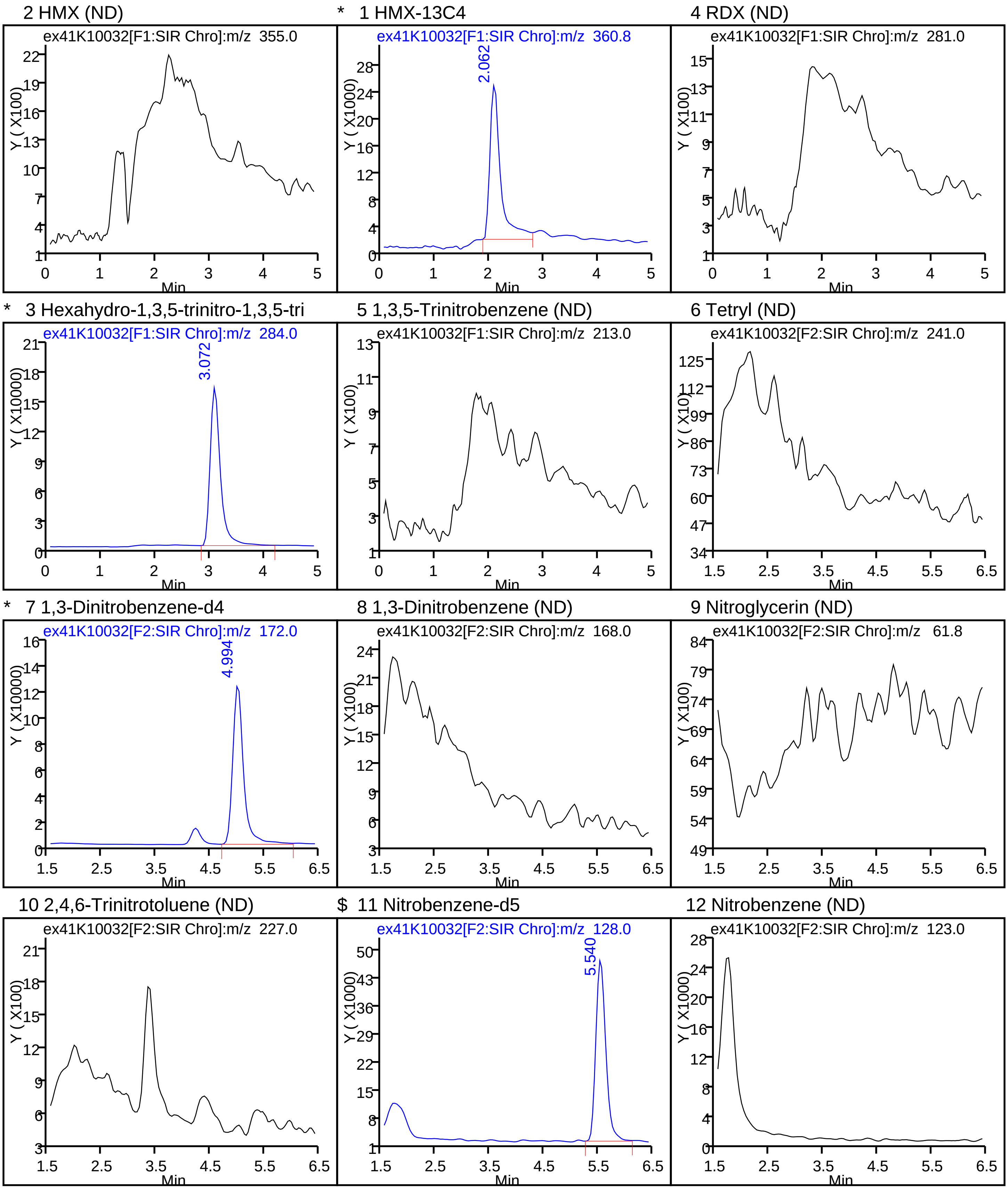
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										
3	197.0		6.715							
17 2,6-Dinitrotoluene										
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		4842556	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.008	25085	1.71			
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0	8.284	8.254	0.030	1.000	308258	30.7			
23 p-Nitrotoluene										
4	137.0	8.830	8.800	0.030	1.000	312326	35.9			
24 m-Nitrotoluene										
4	137.0	9.499	9.468	0.031	1.000	26933	5.53			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

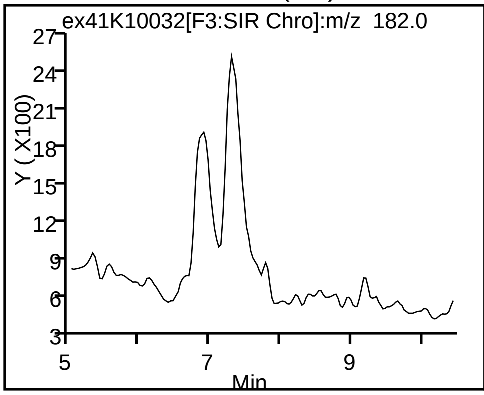
Processing Flags
1 - Missing Peaks
s - Failed ISTD Recovery Test

Report Date: 11-Nov-2011 06:40:33 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10032.d

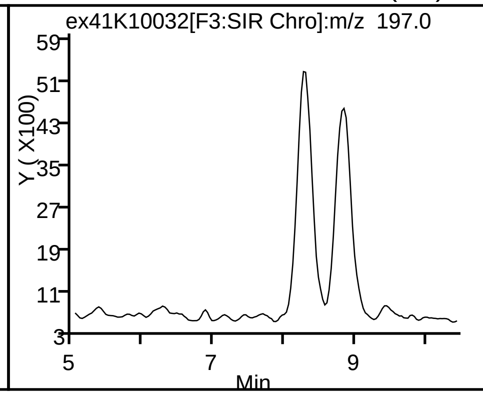
Injection Date:	10-Nov-2011 16:16:10	Limit Group:	LC - 8321A Expl
Client ID:	MG37 GW010	Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	30
Operator ID:		Injection Vol:	40.00 ul



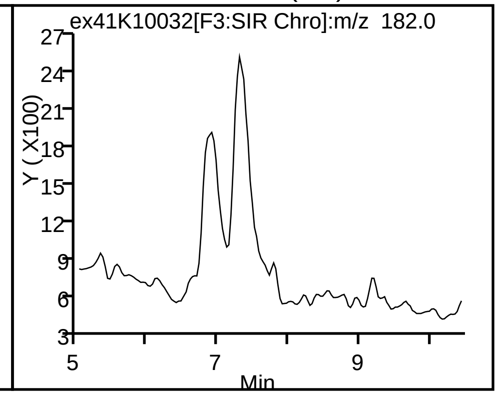
13 3,4-Dinitrotoluene (ND)



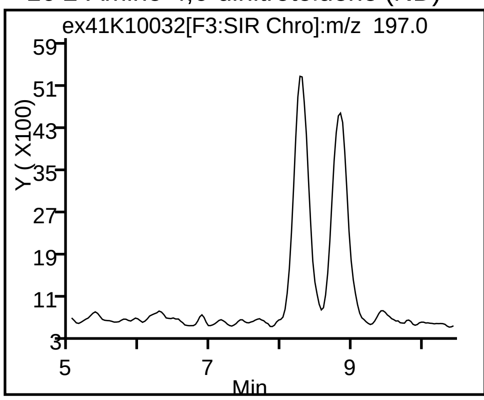
14 4-Amino-2,6-dinitrotoluene (ND)



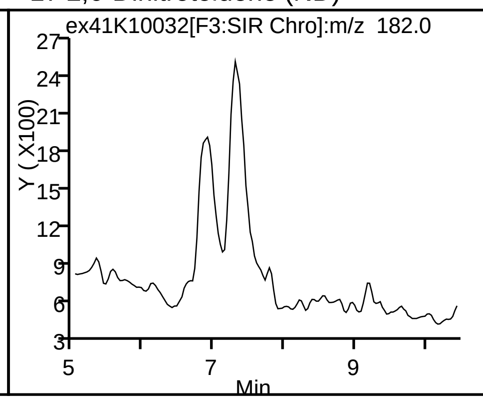
15 2,3-Dinitrotoluene (ND)



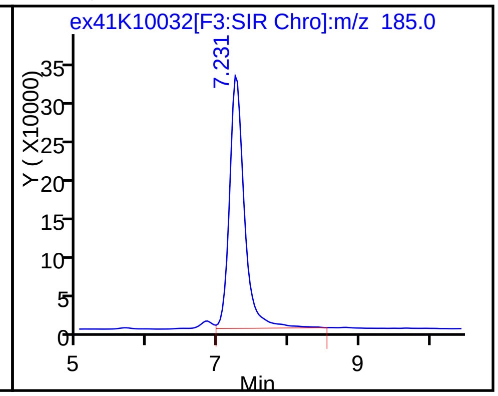
16 2-Amino-4,6-dinitrotoluene (ND)



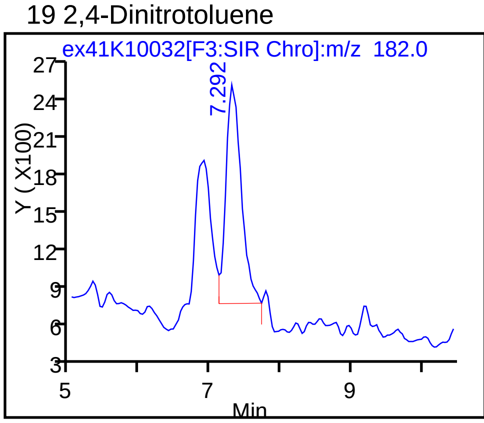
17 2,6-Dinitrotoluene (ND)



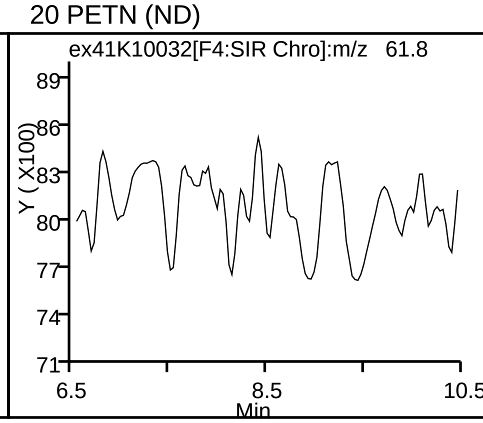
* 18 2,4-dinitrotoluene-d3



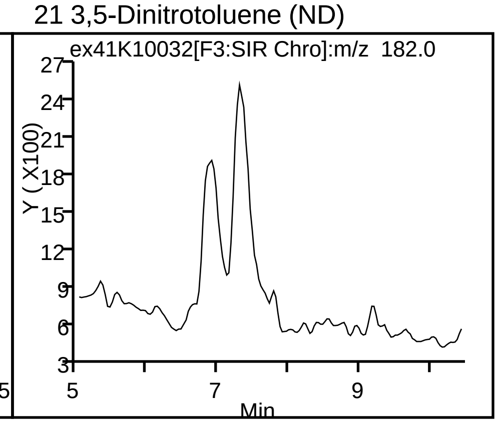
19 2,4-Dinitrotoluene



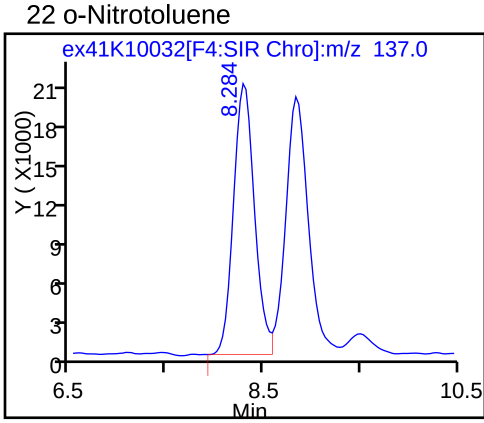
20 PETN (ND)



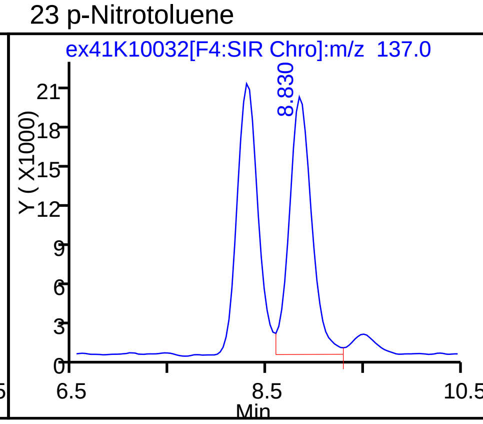
21 3,5-Dinitrotoluene (ND)



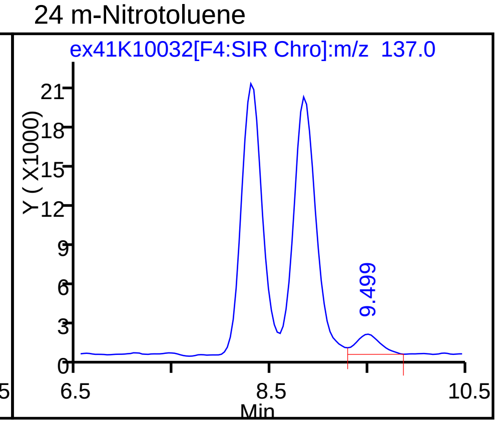
22 o-Nitrotoluene



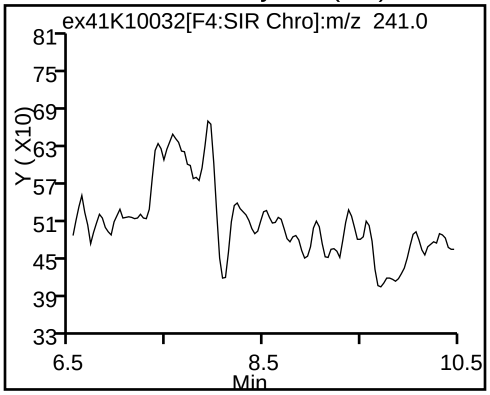
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver	Job No.: 280-22438-1

SDG No.:

Client Sample ID: MG37 GW010 DL	Lab Sample ID: 280-22438-2 DL

Matrix: Water	Lab File ID: ex41K10017.d

Analysis Method: 8321B	Date Collected: 11/02/2011 08:50

Extraction Method: 3535	Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1045(mL)	Date Analyzed: 11/10/2011 13:13

Con. Extract Vol.: 5(mL)	Dilution Factor: 5

Injection Volume: 40(uL)	GC Column: IonPac	ID: 2(mm)

% Moisture:	GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
2691-41-0	HMX	0.24	U	0.48	0.24	0.091

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	90	D	48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10017.d		
Lims ID:	280-22438-A-2-A	Client ID:	MG37 GW010
Inject. Date:	10-Nov-2011 13:13:34	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	280-22438-A-2-A 5x 280-0002741-015		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	60
Lims Batch ID:	95629	Lims Sample ID:	15
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:12	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		650574	250.0			
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		2604514	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1744862	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	135444	17.8			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.261	7.201	0.060		4970569	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.322	7.261	0.061	1.008	11436	1.16			
20 PETN										1
4	61.8		7.707							
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0	8.314	8.254	0.060	1.000	70290	7.68			
23 p-Nitrotoluene										
4	137.0	8.861	8.770	0.091	1.000	57648	7.66			
24 m-Nitrotoluene										
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

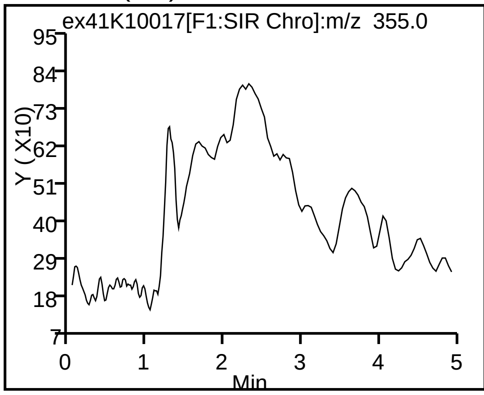
QC Flag Legend

Processing Flags
1 - Missing Peaks

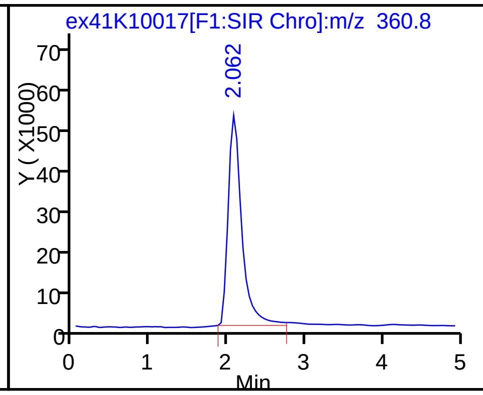
Report Date: 11-Nov-2011 06:40:22 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10017.d

Injection Date:	10-Nov-2011 13:13:34	Limit Group:	LC - 8321A Expl
Client ID:	MG37 GW010	Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	15
Operator ID:		Injection Vol:	40.00 ul

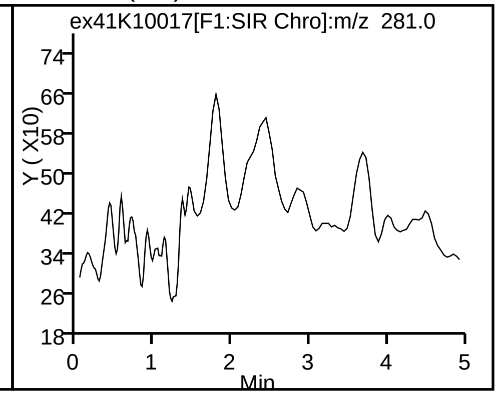
2 HMX (ND)



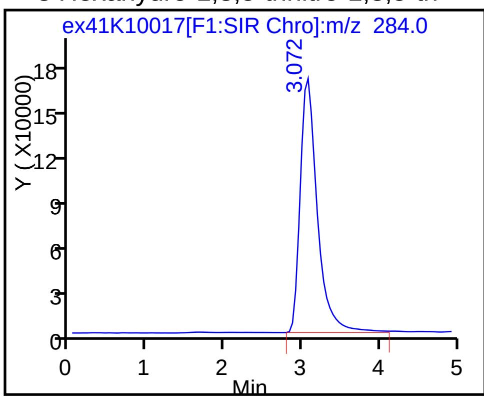
* 1 HMX-13C4



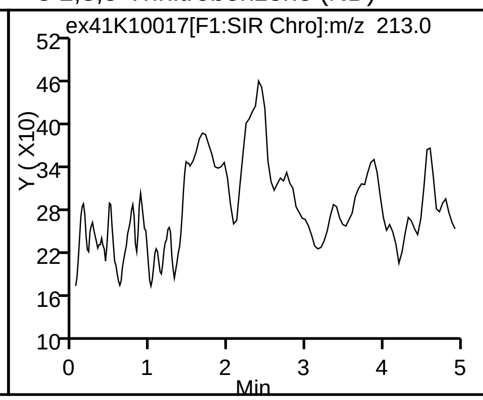
4 RDX (ND)



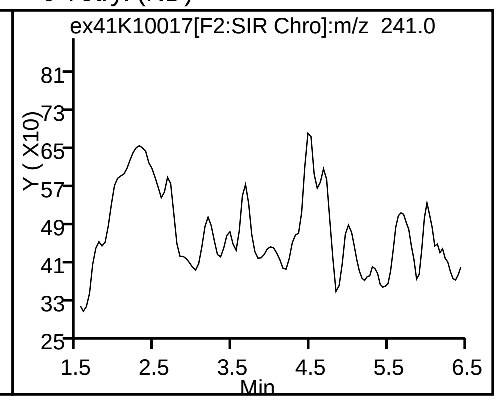
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



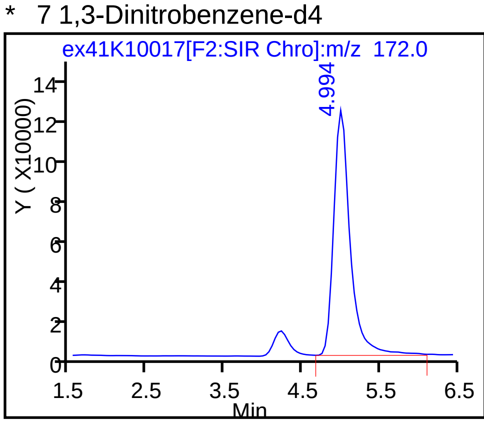
5 1,3,5-Trinitrobenzene (ND)



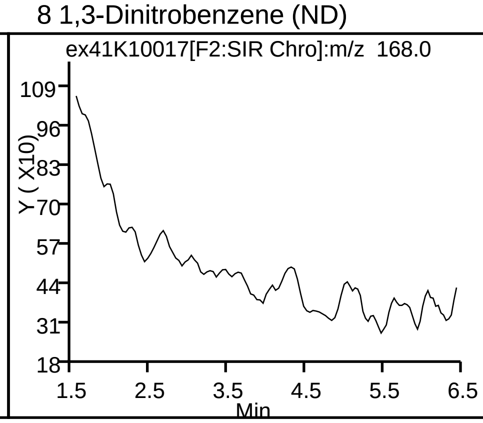
6 Tetryl (ND)



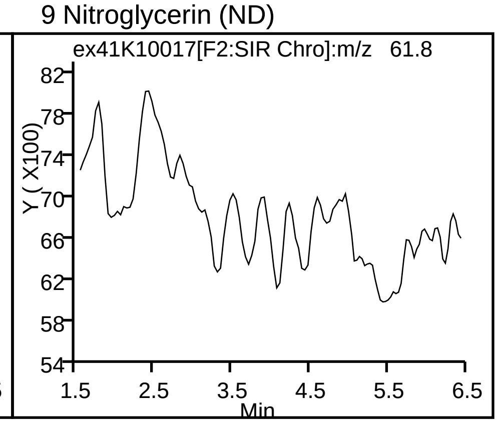
* 7 1,3-Dinitrobenzene-d4



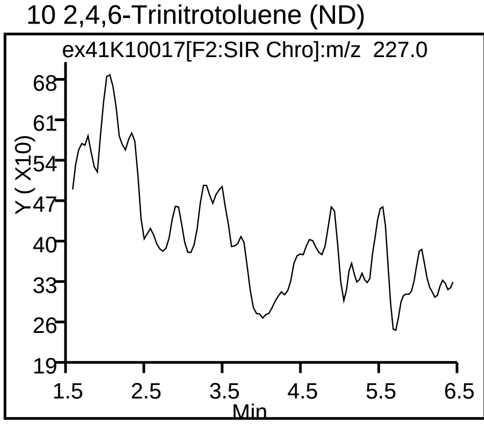
8 1,3-Dinitrobenzene (ND)



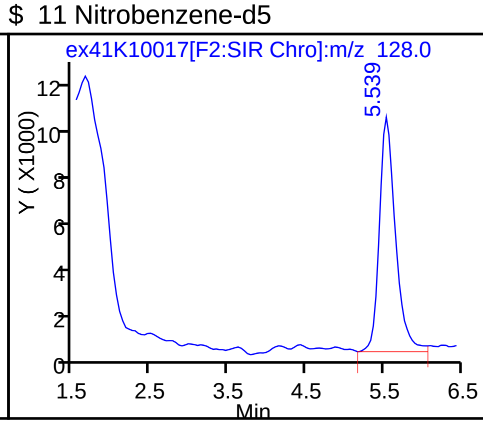
9 Nitroglycerin (ND)



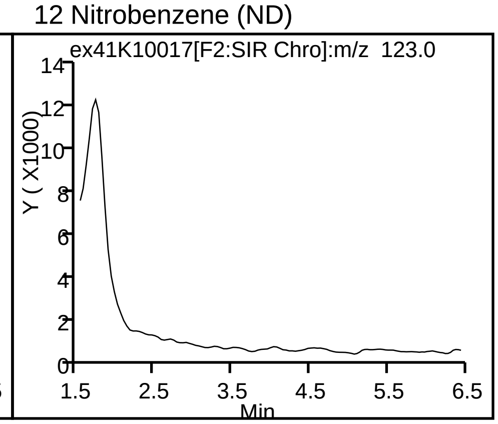
10 2,4,6-Trinitrotoluene (ND)



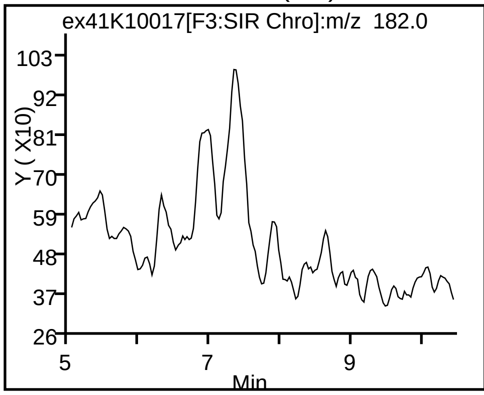
$ 11 Nitrobenzene-d5



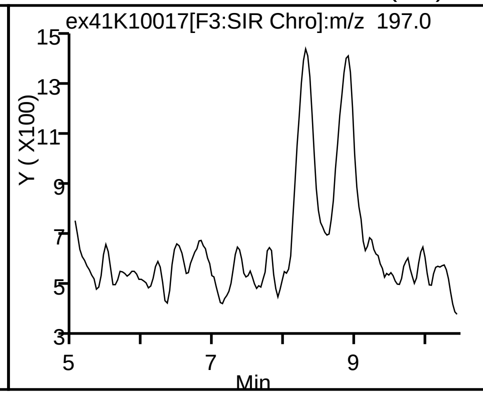
12 Nitrobenzene (ND)



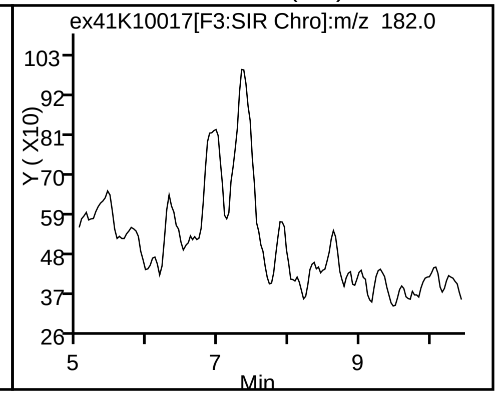
13 3,4-Dinitrotoluene (ND)



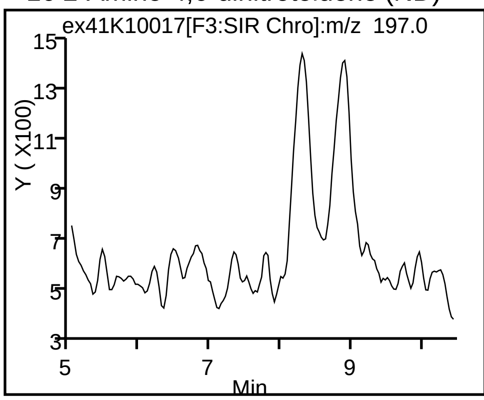
14 4-Amino-2,6-dinitrotoluene (ND)



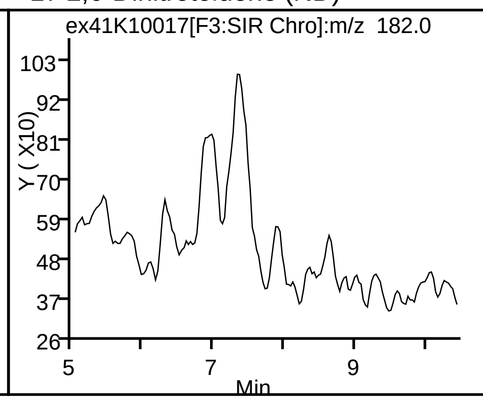
15 2,3-Dinitrotoluene (ND)



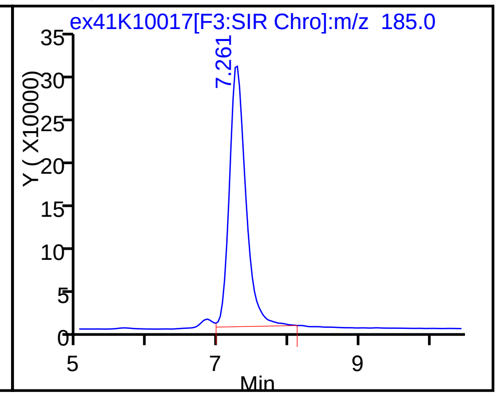
16 2-Amino-4,6-dinitrotoluene (ND)



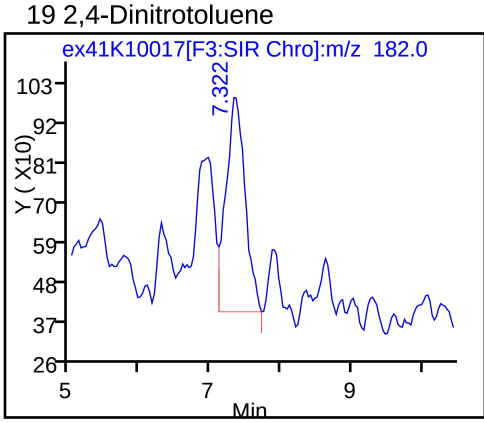
17 2,6-Dinitrotoluene (ND)



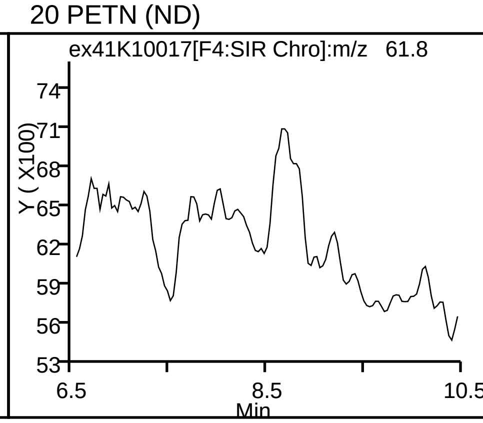
* 18 2,4-dinitrotoluene-d3



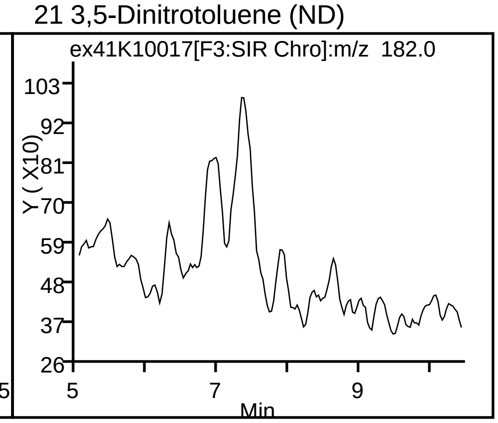
19 2,4-Dinitrotoluene



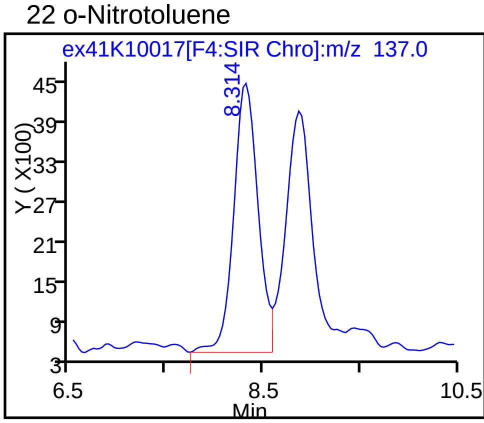
20 PETN (ND)



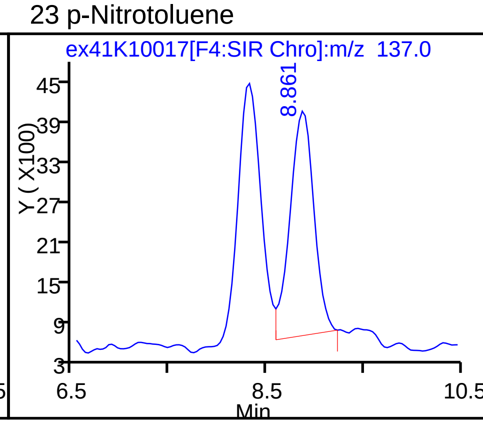
21 3,5-Dinitrotoluene (ND)



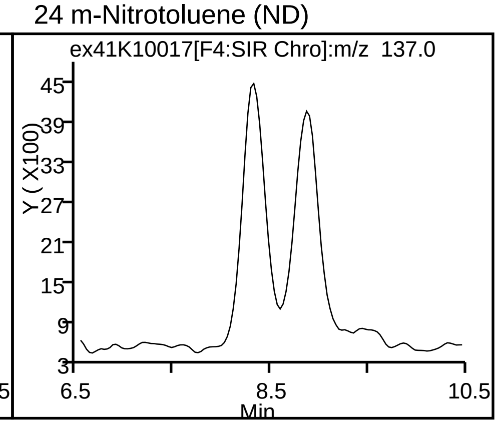
22 o-Nitrotoluene



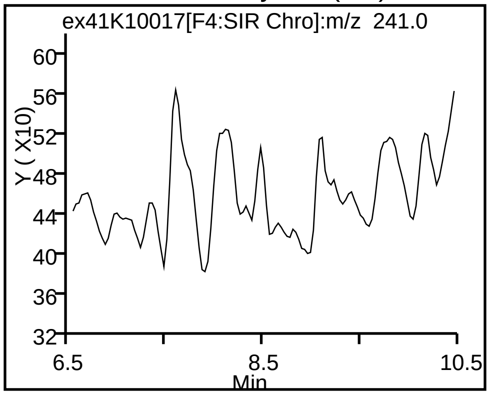
23 p-Nitrotoluene



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG No.:

Client Sample ID: MG38 GW007 | Lab Sample ID: 280-22438-3

Matrix: Water | Lab File ID: ex41K10033.d

Analysis Method: 8321B | Date Collected: 11/02/2011 10:08

Extraction Method: 3535 | Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1025(mL) | Date Analyzed: 11/10/2011 16:28

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95630 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.049	U	0.098	0.049	0.017
99-65-0	1,3-Dinitrobenzene	0.049	U	0.098	0.049	0.014
118-96-7	2,4,6-Trinitrotoluene	0.049	U	0.098	0.049	0.021
121-14-2	2,4-Dinitrotoluene	0.049	U	0.098	0.049	0.019
606-20-2	2,6-Dinitrotoluene	0.049	U	0.098	0.049	0.021
35572-78-2	2-Amino-4,6-dinitrotoluene	0.049	U	0.098	0.049	0.020
88-72-2	2-Nitrotoluene	0.049	U	0.098	0.049	0.021
99-08-1	3-Nitrotoluene	0.049	U	0.098	0.049	0.024
19406-51-0	4-Amino-2,6-dinitrotoluene	0.049	U	0.098	0.049	0.019
99-99-0	4-Nitrotoluene	0.049	U	0.098	0.049	0.025
2691-41-0	HMX	0.049	U	0.098	0.049	0.019
98-95-3	Nitrobenzene	0.049	U	0.098	0.049	0.032
55-63-0	Nitroglycerin	0.049	U	0.14	0.049	0.044
78-11-5	PETN	0.049	U	0.098	0.049	0.018
121-82-4	RDX	0.049	U	0.098	0.049	0.020
479-45-8	Tetryl	0.049	U	0.098	0.049	0.020

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	84		48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10033.d		
Lims ID:	280-22438-A-3-A	Client ID:	MG38 GW007
Inject. Date:	10-Nov-2011 16:28:14	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-A-3-A 280-0002741-031		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	48
Lims Batch ID:	95630	Lims Sample ID:	31
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:31	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 11-Nov-2011 06:33:25

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		416736	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		2040431	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1649964	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	596137	82.8			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4566854	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

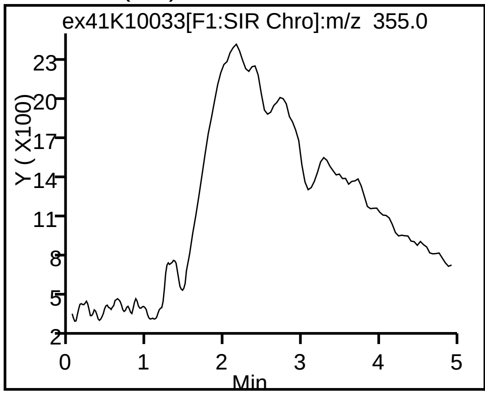
QC Flag Legend

Processing Flags
1 - Missing Peaks

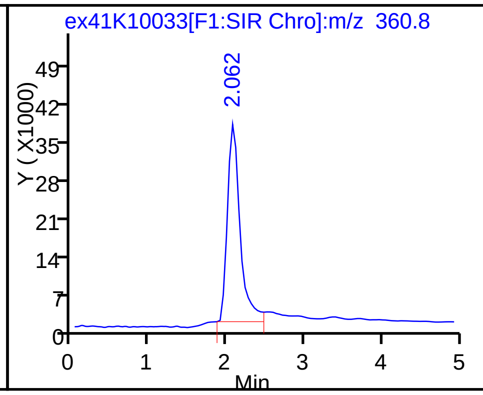
Report Date: 11-Nov-2011 06:40:34 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10033.d		
Injection Date:	10-Nov-2011 16:28:14	Limit Group:	LC - 8321A Expl
Client ID:	MG38 GW007	Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	31
Operator ID:		Injection Vol:	40.00 ul

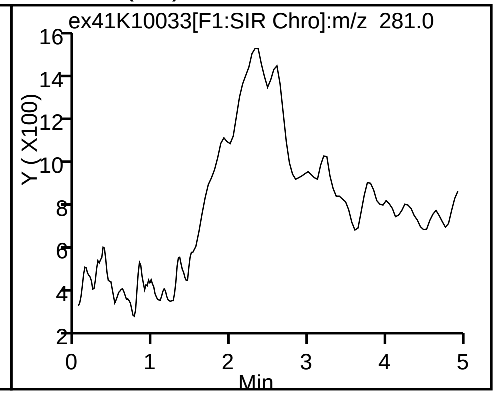
2 HMX (ND)



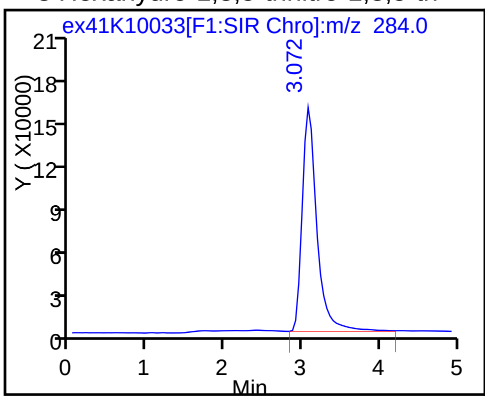
* 1 HMX-13C4



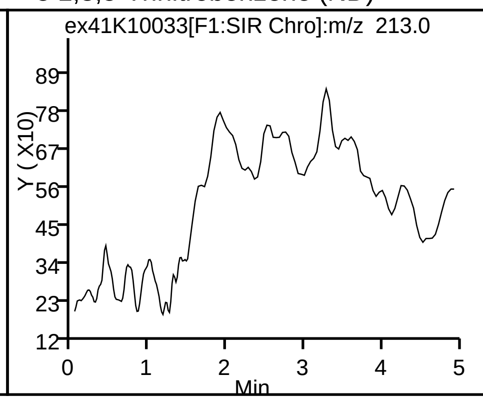
4 RDX (ND)



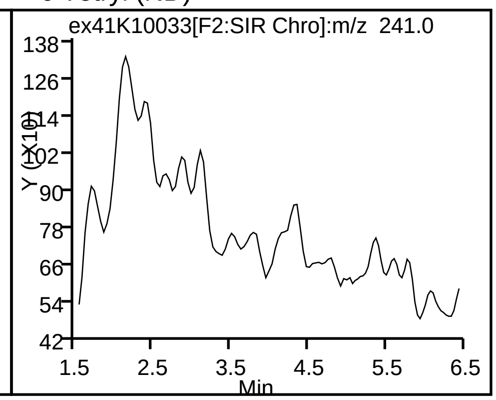
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



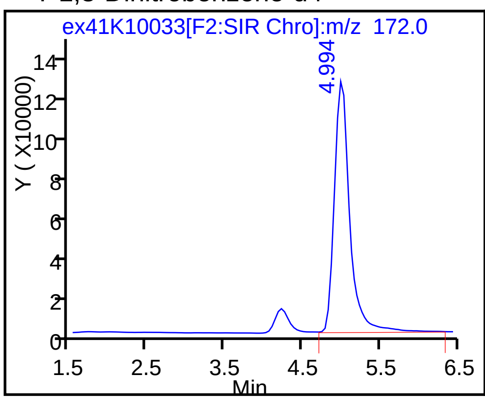
5 1,3,5-Trinitrobenzene (ND)



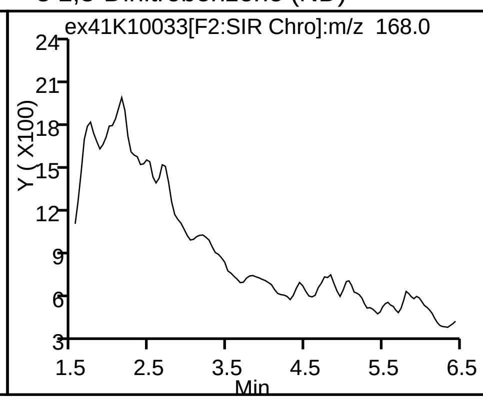
6 Tetryl (ND)



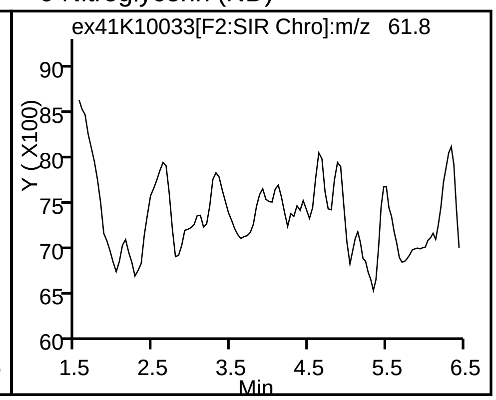
* 7 1,3-Dinitrobenzene-d4



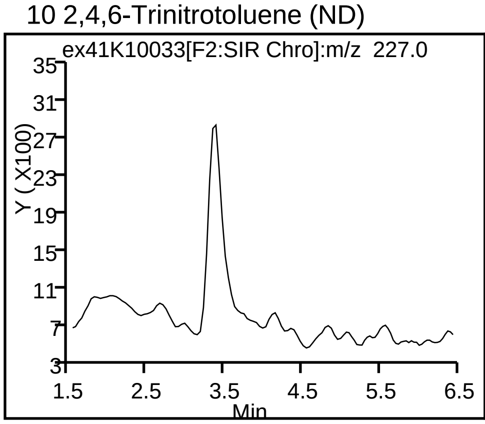
8 1,3-Dinitrobenzene (ND)



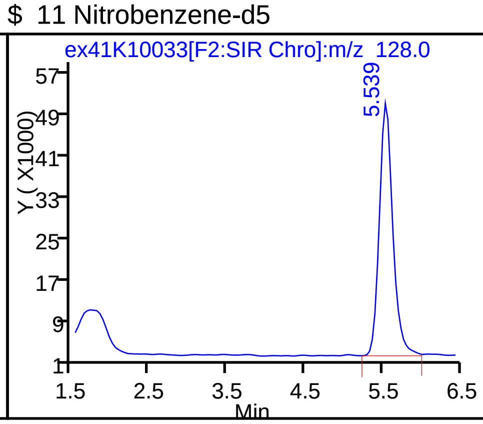
9 Nitroglycerin (ND)



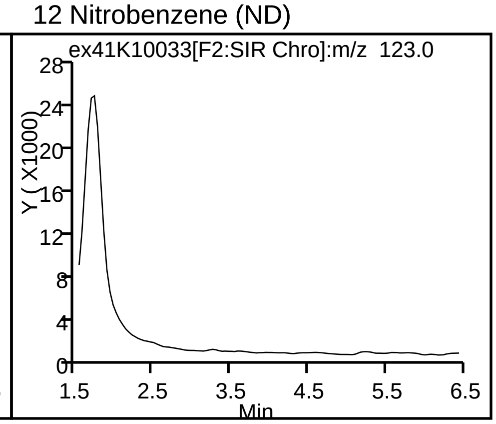
10 2,4,6-Trinitrotoluene (ND)



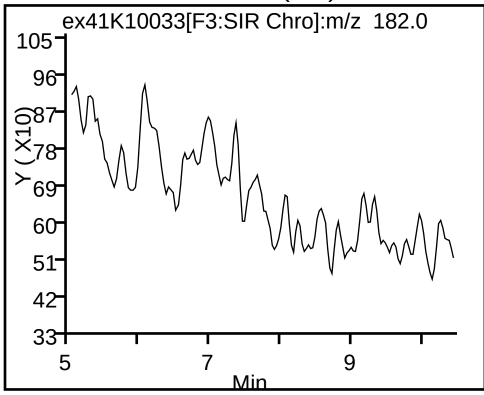
$ 11 Nitrobenzene-d5



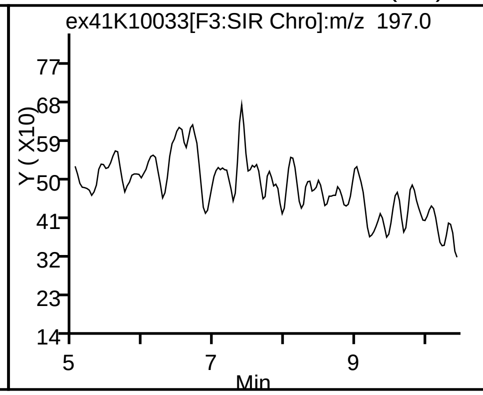
12 Nitrobenzene (ND)



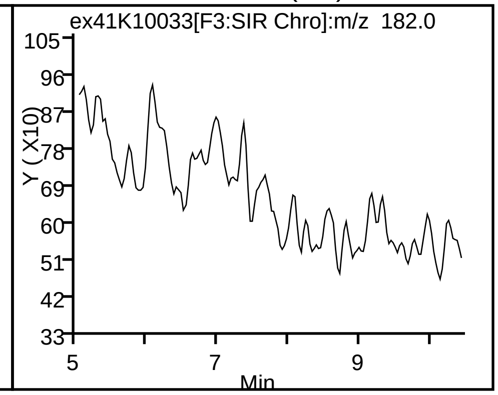
13 3,4-Dinitrotoluene (ND)



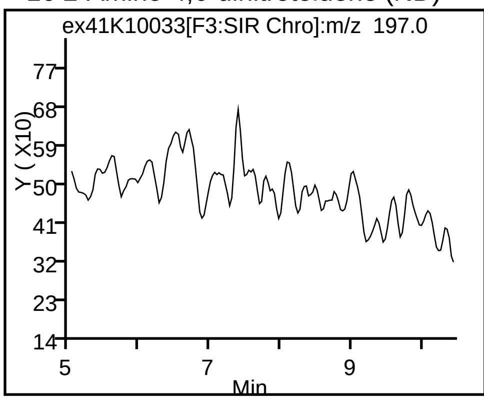
14 4-Amino-2,6-dinitrotoluene (ND)



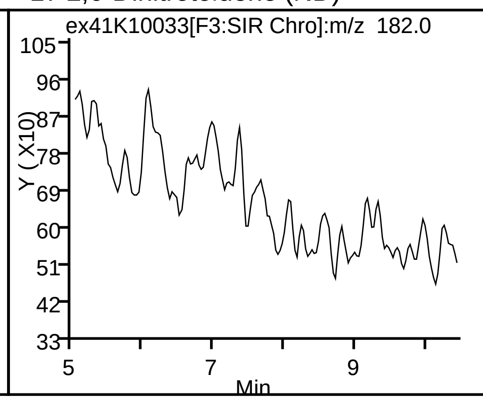
15 2,3-Dinitrotoluene (ND)



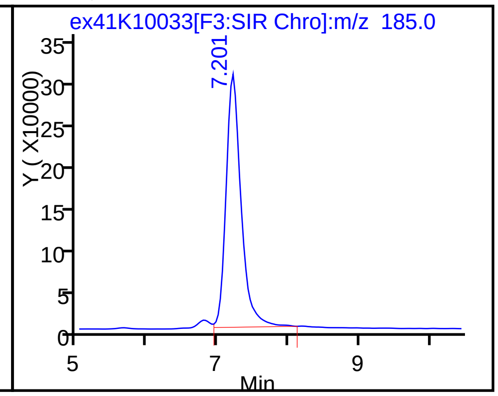
16 2-Amino-4,6-dinitrotoluene (ND)



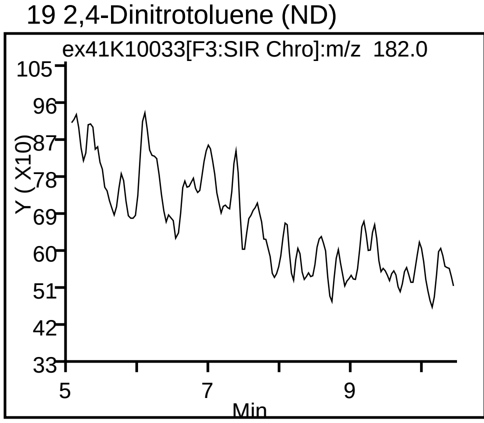
17 2,6-Dinitrotoluene (ND)



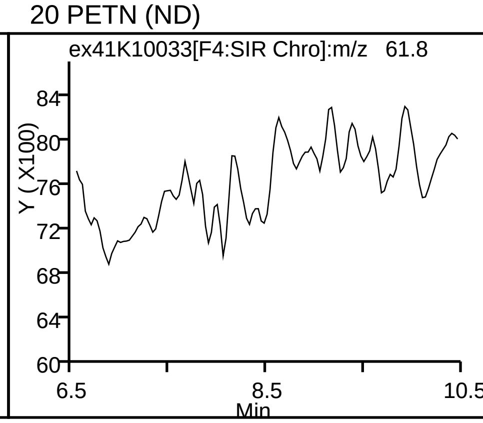
* 18 2,4-dinitrotoluene-d3



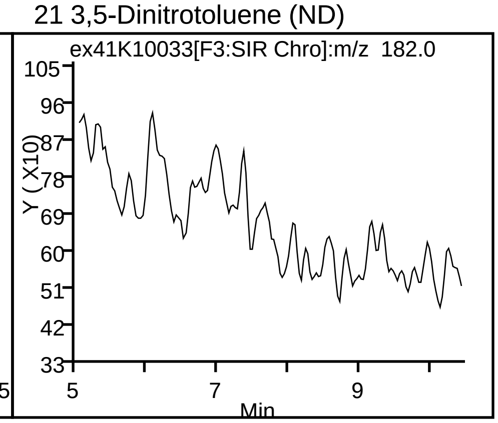
19 2,4-Dinitrotoluene (ND)



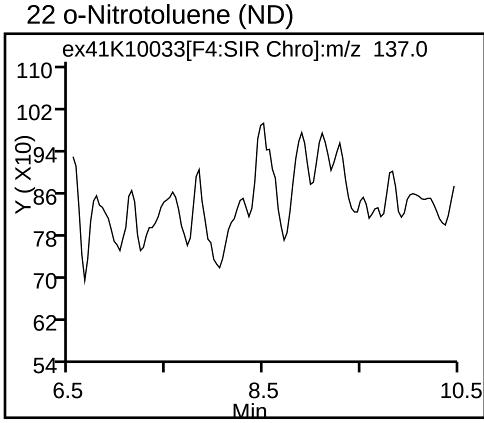
20 PETN (ND)



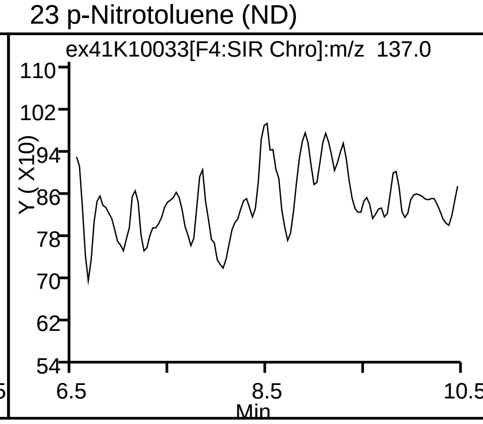
21 3,5-Dinitrotoluene (ND)



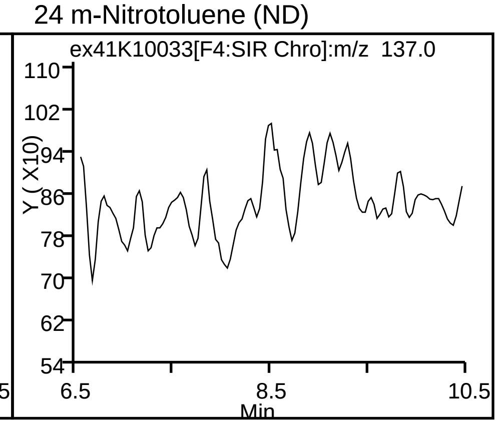
22 o-Nitrotoluene (ND)



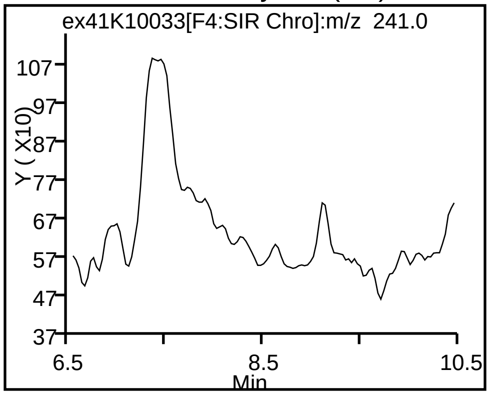
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG No.:

Client Sample ID: MG40 GW009 | Lab Sample ID: 280-22438-4

Matrix: Water | Lab File ID: ex41K10034.d

Analysis Method: 8321B | Date Collected: 11/02/2011 10:49

Extraction Method: 3535 | Date Extracted: 11/07/2011 11:42

Sample wt/vol: 964.2(mL) | Date Analyzed: 11/10/2011 16:40

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95630 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.052	U	0.10	0.052	0.018
99-65-0	1,3-Dinitrobenzene	0.052	U	0.10	0.052	0.015
118-96-7	2,4,6-Trinitrotoluene	0.052	U	0.10	0.052	0.023
121-14-2	2,4-Dinitrotoluene	0.052	U	0.10	0.052	0.020
606-20-2	2,6-Dinitrotoluene	0.052	U	0.10	0.052	0.023
35572-78-2	2-Amino-4,6-dinitrotoluene	0.052	U	0.10	0.052	0.022
88-72-2	2-Nitrotoluene	0.052	U	0.10	0.052	0.023
99-08-1	3-Nitrotoluene	0.052	U	0.10	0.052	0.026
19406-51-0	4-Amino-2,6-dinitrotoluene	0.052	U	0.10	0.052	0.020
99-99-0	4-Nitrotoluene	0.052	U	0.10	0.052	0.027
2691-41-0	HMX	0.052	U	0.10	0.052	0.020
98-95-3	Nitrobenzene	0.052	U	0.10	0.052	0.034
55-63-0	Nitroglycerin	0.052	U	0.15	0.052	0.047
78-11-5	PETN	0.052	U	0.10	0.052	0.019
121-82-4	RDX	0.052	U	0.10	0.052	0.022
479-45-8	Tetryl	0.052	U	0.10	0.052	0.022

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	87		48-130

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10034.d		
Lims ID:	280-22438-A-4-A	Client ID:	MG40 GW009
Inject. Date:	10-Nov-2011 16:40:19	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-A-4-A 280-0002741-032		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	49
Lims Batch ID:	95630	Lims Sample ID:	32
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:31	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:33:38

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		456502	250.0			
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		2255259	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1553561	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.506	-0.034	1.105	586197	86.4			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.110	7.201	-0.091		4432667	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

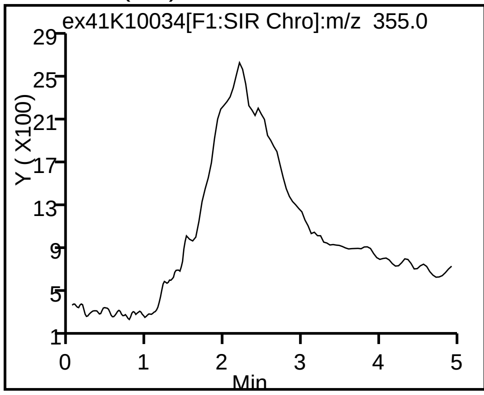
Processing Flags
1 - Missing Peaks

Report Date: 11-Nov-2011 06:40:34 Chrom Revision: 1.2 13-Jul-2011 10:43:06

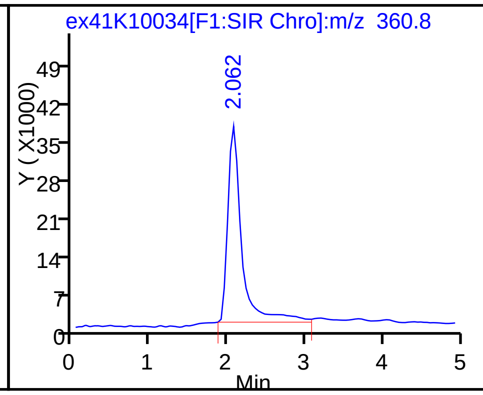
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10034.d

Injection Date:	10-Nov-2011 16:40:19	Limit Group:	LC - 8321A Expl
Client ID:	MG40 GW009	Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	32
Operator ID:		Injection Vol:	40.00 ul

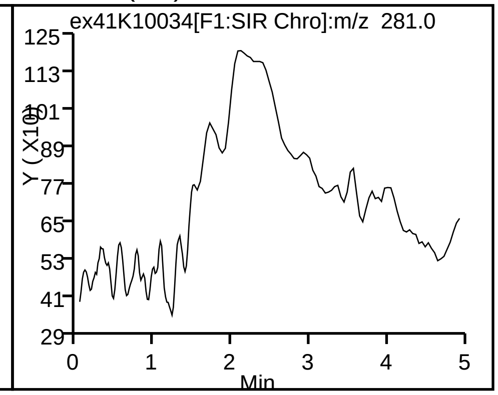
2 HMX (ND)



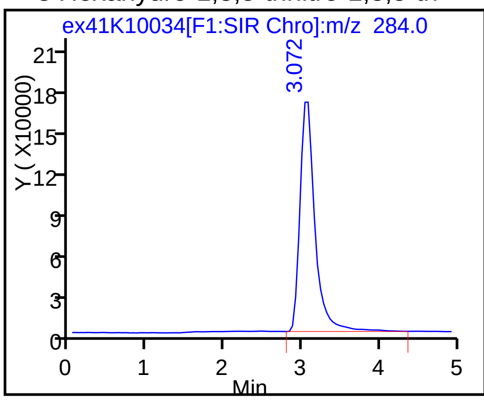
* 1 HMX-13C4



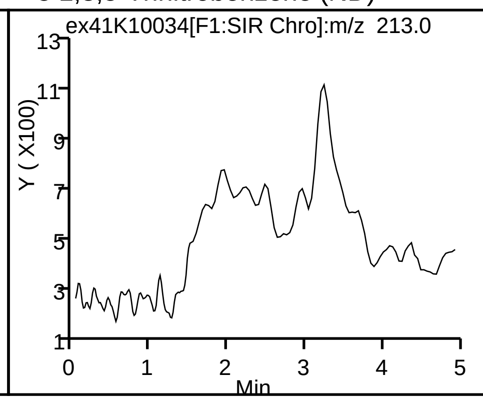
4 RDX (ND)



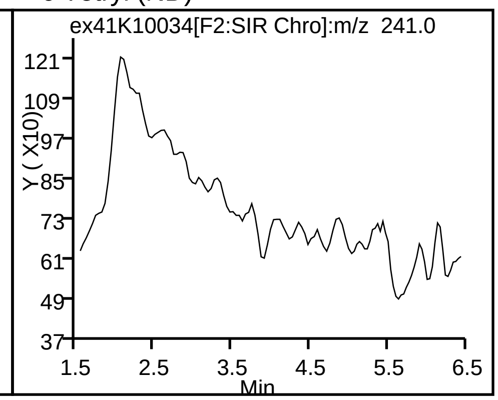
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



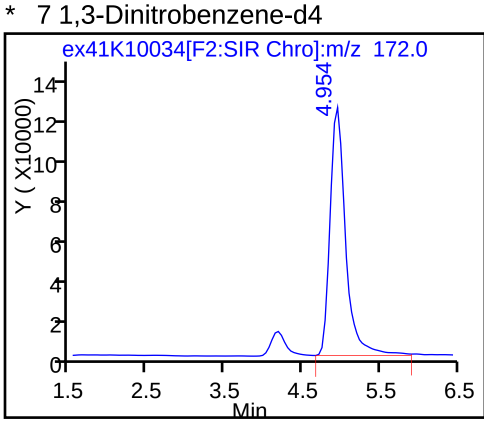
5 1,3,5-Trinitrobenzene (ND)



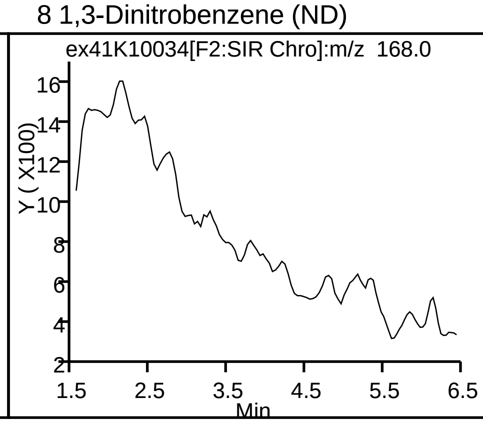
6 Tetryl (ND)



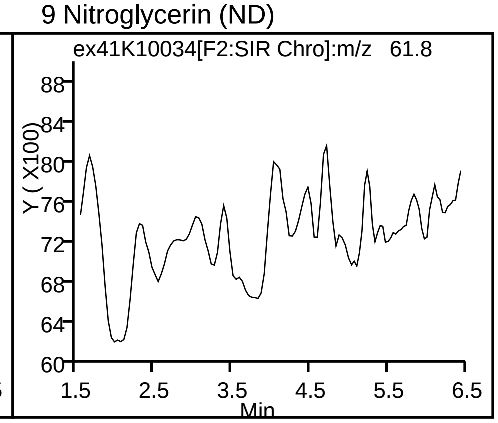
* 7 1,3-Dinitrobenzene-d4



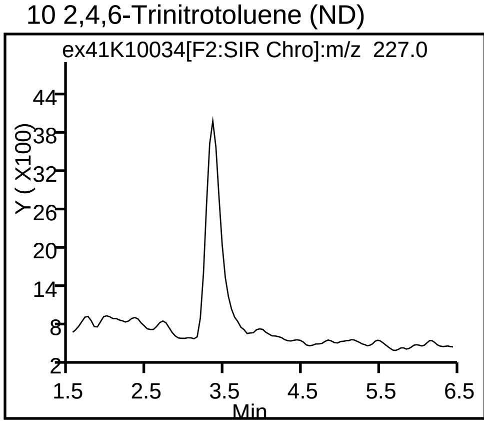
8 1,3-Dinitrobenzene (ND)



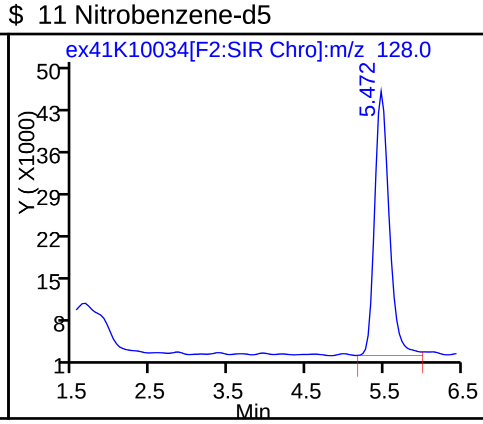
9 Nitroglycerin (ND)



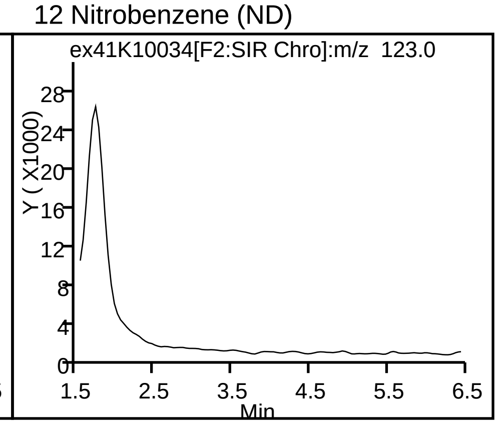
10 2,4,6-Trinitrotoluene (ND)



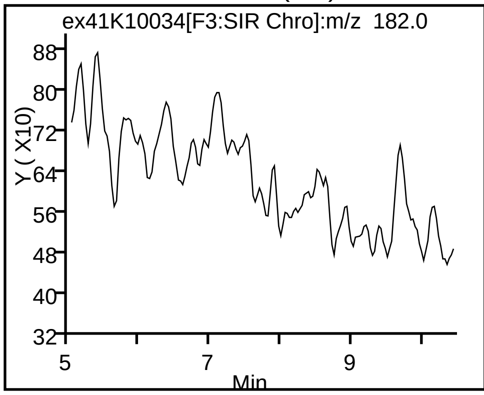
$ 11 Nitrobenzene-d5



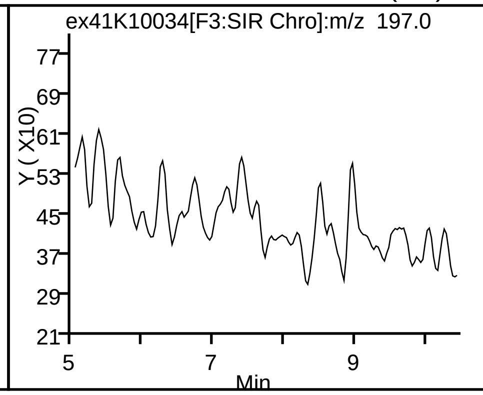
12 Nitrobenzene (ND)



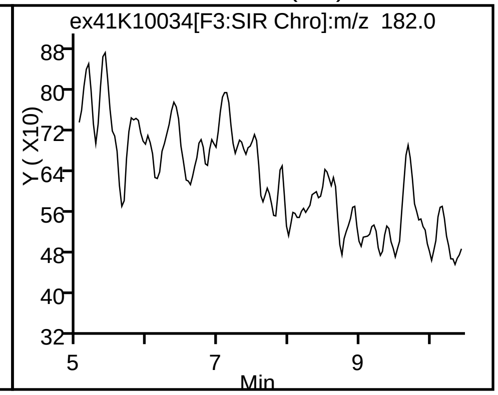
13 3,4-Dinitrotoluene (ND)



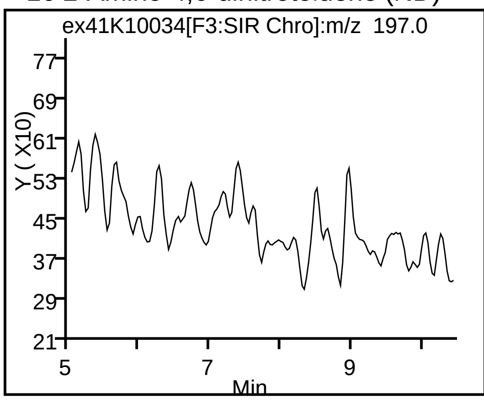
14 4-Amino-2,6-dinitrotoluene (ND)



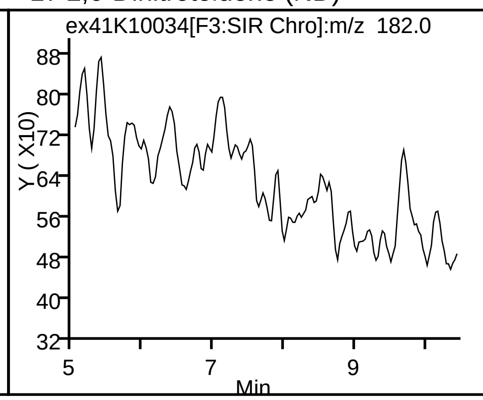
15 2,3-Dinitrotoluene (ND)



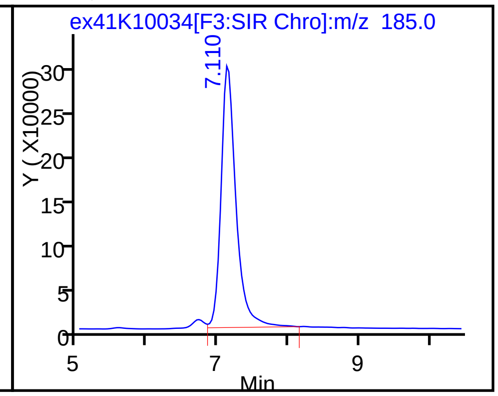
16 2-Amino-4,6-dinitrotoluene (ND)



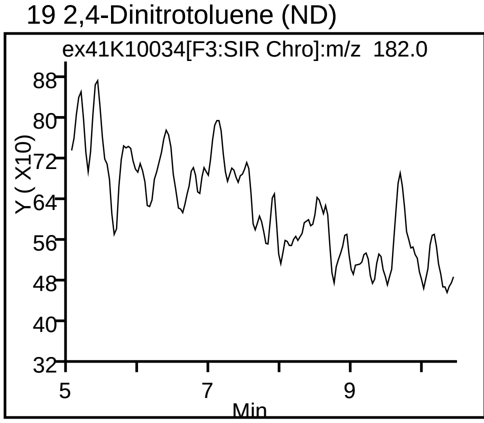
17 2,6-Dinitrotoluene (ND)



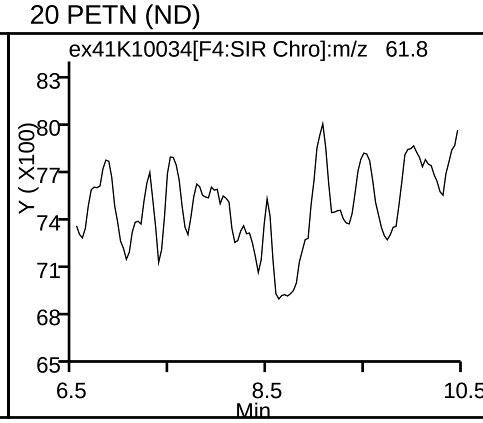
* 18 2,4-dinitrotoluene-d3



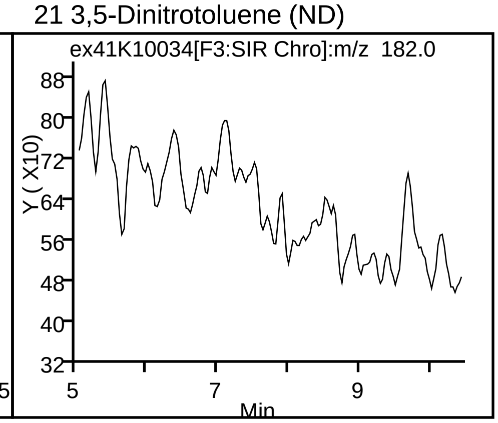
19 2,4-Dinitrotoluene (ND)



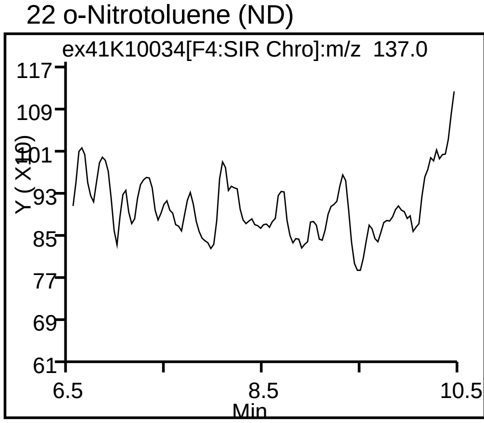
20 PETN (ND)



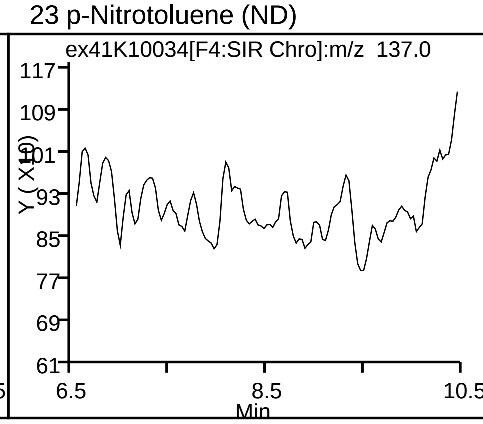
21 3,5-Dinitrotoluene (ND)



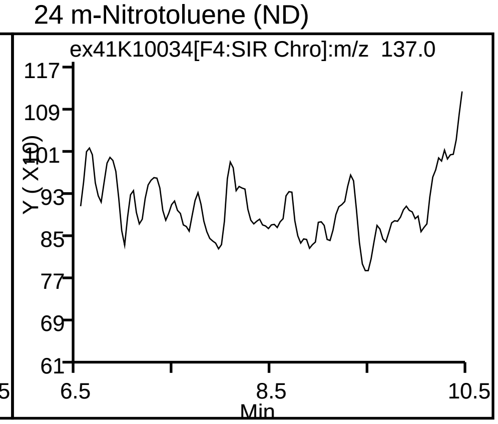
22 o-Nitrotoluene (ND)



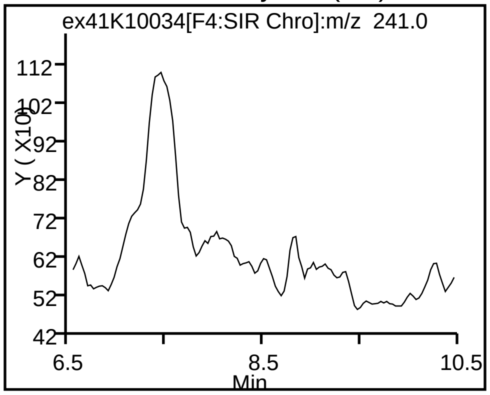
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG No.:

Client Sample ID: TP02 GW011 | Lab Sample ID: 280-22438-5

Matrix: Water | Lab File ID: ex41K10035.d

Analysis Method: 8321B | Date Collected: 11/02/2011 13:17

Extraction Method: 3535 | Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1020.1(mL) | Date Analyzed: 11/10/2011 16:52

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95630 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.049	U	0.098	0.049	0.017
99-65-0	1,3-Dinitrobenzene	0.049	U	0.098	0.049	0.014
118-96-7	2,4,6-Trinitrotoluene	0.049	U	0.098	0.049	0.022
121-14-2	2,4-Dinitrotoluene	0.049	U	0.098	0.049	0.019
606-20-2	2,6-Dinitrotoluene	0.049	U	0.098	0.049	0.022
35572-78-2	2-Amino-4,6-dinitrotoluene	0.049	U	0.098	0.049	0.021
88-72-2	2-Nitrotoluene	0.049	U	0.098	0.049	0.022
99-08-1	3-Nitrotoluene	0.049	U	0.098	0.049	0.025
19406-51-0	4-Amino-2,6-dinitrotoluene	0.049	U	0.098	0.049	0.019
99-99-0	4-Nitrotoluene	0.049	U	0.098	0.049	0.025
98-95-3	Nitrobenzene	0.049	U	0.098	0.049	0.032
55-63-0	Nitroglycerin	0.049	U	0.14	0.049	0.044
78-11-5	PETN	0.049	U	0.098	0.049	0.018
121-82-4	RDX	0.049	U	0.098	0.049	0.021
479-45-8	Tetryl	0.049	U	0.098	0.049	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	75		48-130

Report Date: 11-Nov-2011 06:40:35 Chrom Revision: 1.2 13-Jul-2011 10:43:06

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10035.d		
Lims ID:	280-22438-A-5-A	Client ID:	TP02 GW011
Inject. Date:	10-Nov-2011 16:52:40	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-A-5-A 280-0002741-033		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	50
Lims Batch ID:	95630	Lims Sample ID:	33
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:31	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:33:55

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										s
1	360.8	2.062	2.062	0.000		330264	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		1935542	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1665038	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	537534	74.0			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.261	7.201	0.060		3968690	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										
4	61.8		7.737							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0		8.254							
23 p-Nitrotoluene										
4	137.0		8.800							
24 m-Nitrotoluene										
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

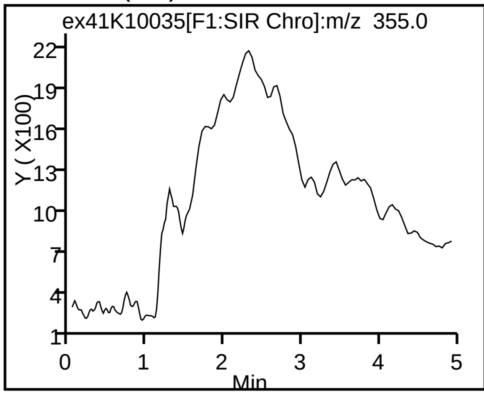
QC Flag Legend

Processing Flags
1 - Missing Peaks
s - Failed ISTD Recovery Test

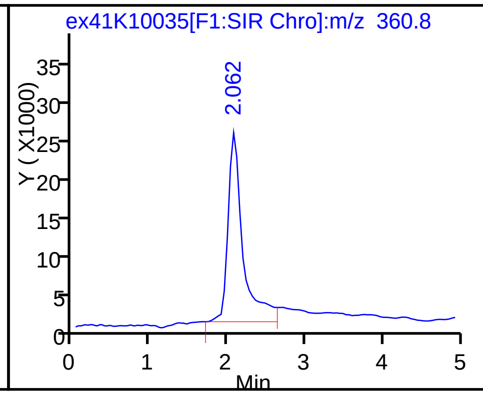
Report Date: 11-Nov-2011 06:40:35 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10035.d		
Injection Date:	10-Nov-2011 16:52:40	Limit Group:	LC - 8321A Expl
Client ID:	TP02 GW011	Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	33
Operator ID:		Injection Vol:	40.00 ul

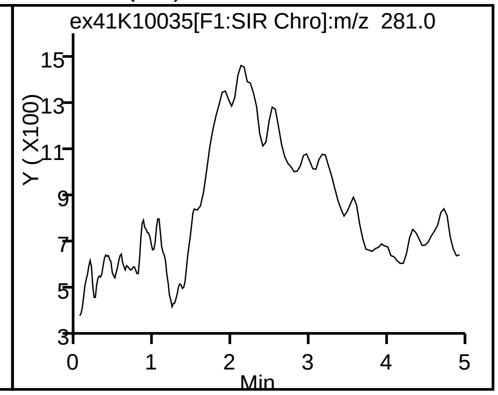
2 HMX (ND)



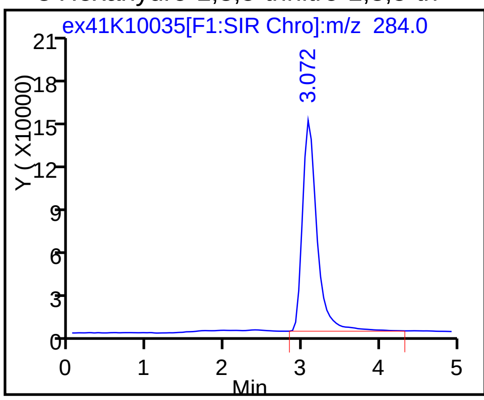
* 1 HMX-13C4



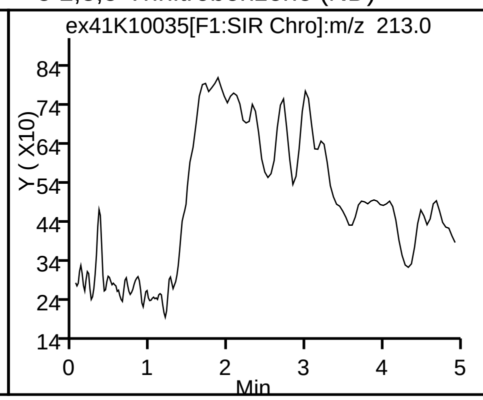
4 RDX (ND)



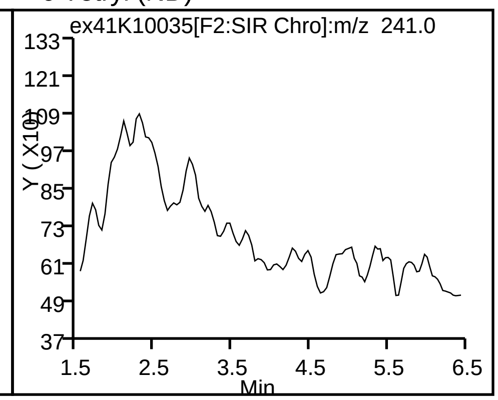
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



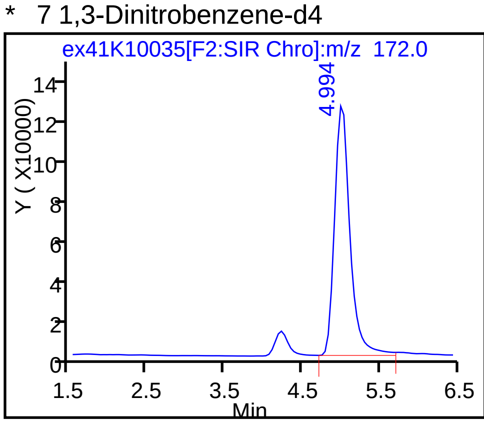
5 1,3,5-Trinitrobenzene (ND)



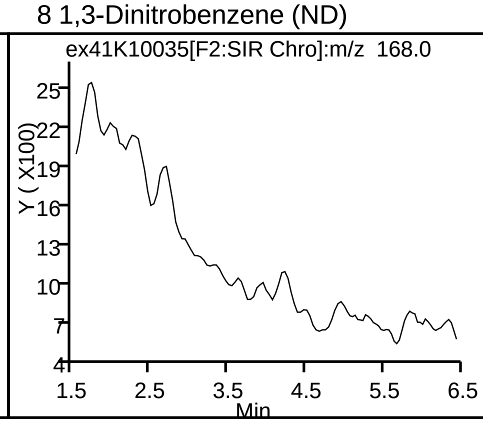
6 Tetryl (ND)



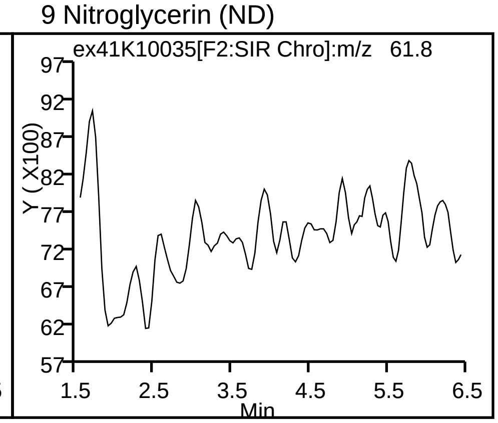
* 7 1,3-Dinitrobenzene-d4



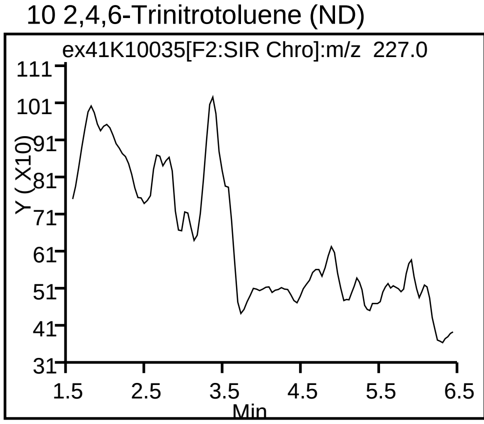
8 1,3-Dinitrobenzene (ND)



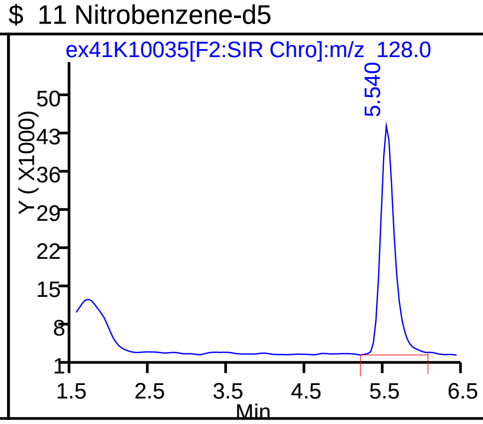
9 Nitroglycerin (ND)



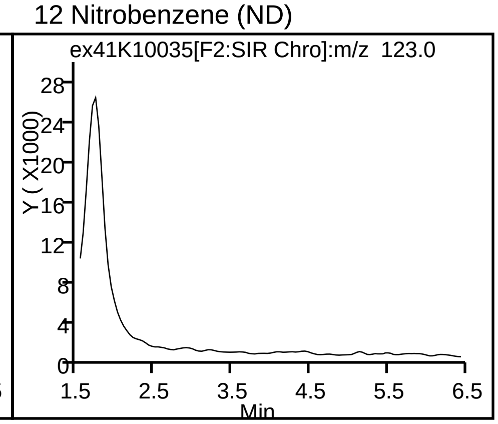
10 2,4,6-Trinitrotoluene (ND)



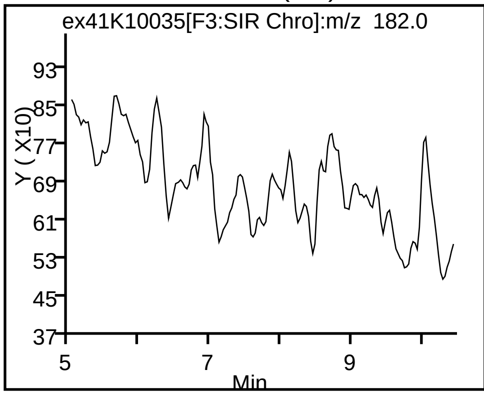
$ 11 Nitrobenzene-d5



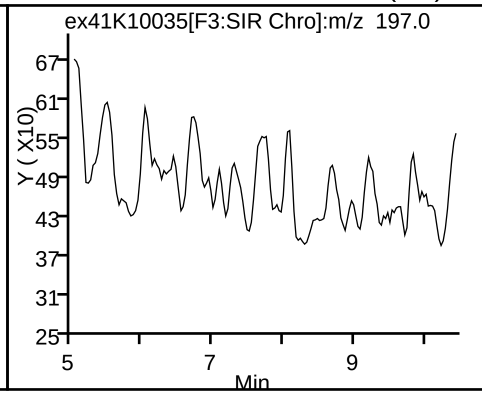
12 Nitrobenzene (ND)



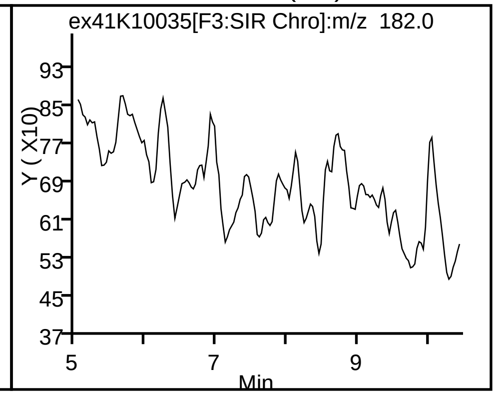
13 3,4-Dinitrotoluene (ND)



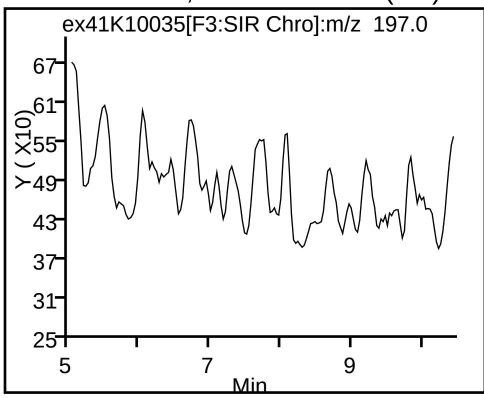
14 4-Amino-2,6-dinitrotoluene (ND)



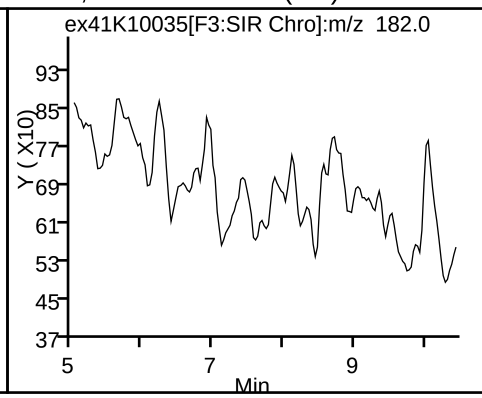
15 2,3-Dinitrotoluene (ND)



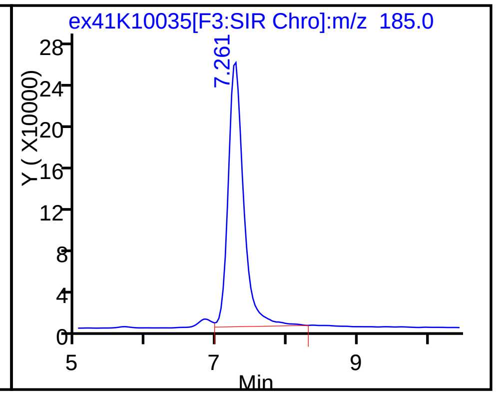
16 2-Amino-4,6-dinitrotoluene (ND)



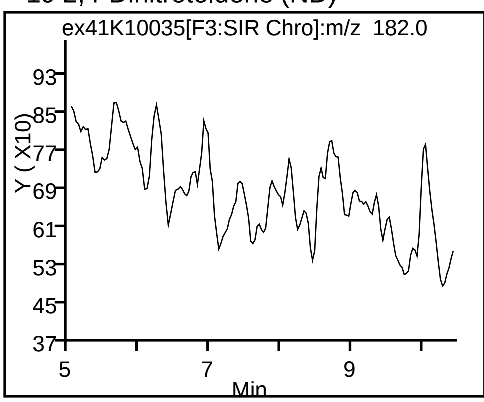
17 2,6-Dinitrotoluene (ND)



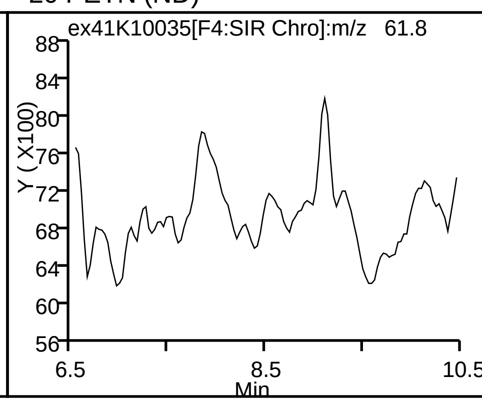
* 18 2,4-dinitrotoluene-d3



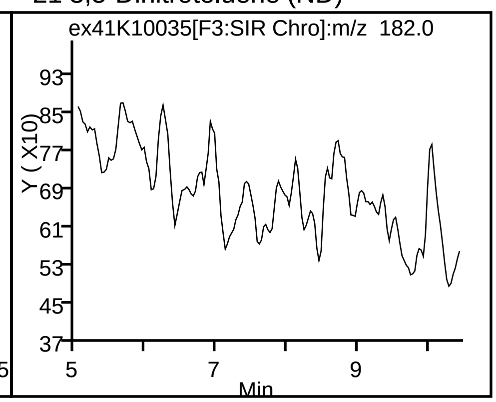
19 2,4-Dinitrotoluene (ND)



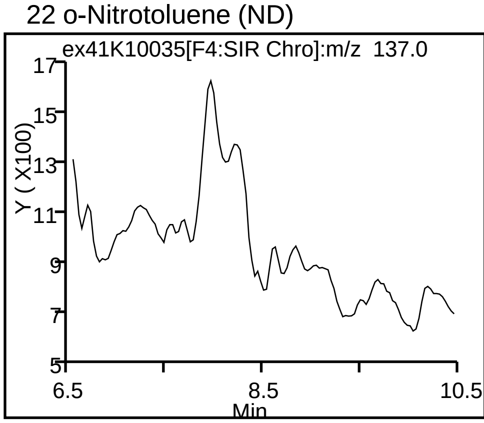
20 PETN (ND)



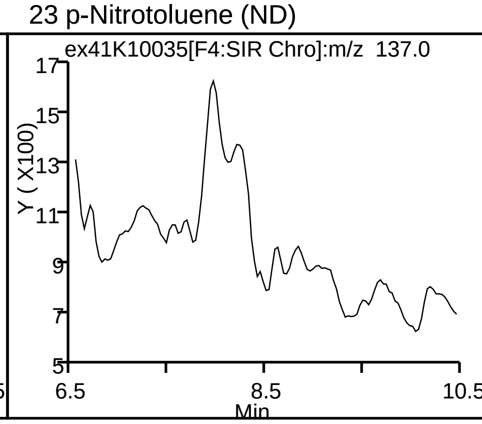
21 3,5-Dinitrotoluene (ND)



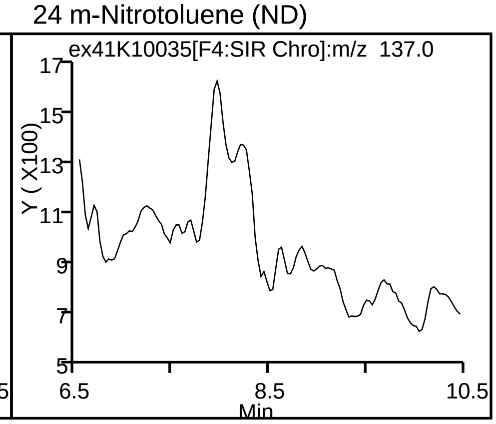
22 o-Nitrotoluene (ND)



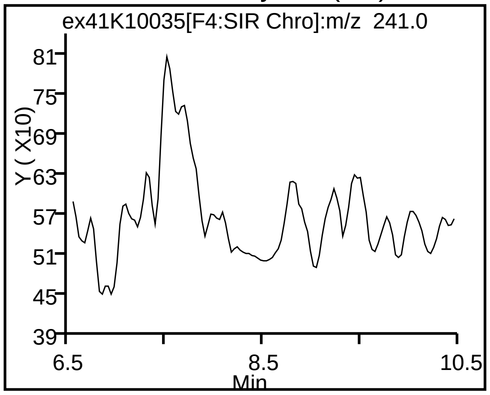
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Client Sample ID: TP02 GW011 DL Lab Sample ID: 280-22438-5 DL

Matrix: Water Lab File ID: ex41K10020.d

Analysis Method: 8321B Date Collected: 11/02/2011 13:17

Extraction Method: 3535 Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1020.1(mL) Date Analyzed: 11/10/2011 13:49

Con. Extract Vol.: 5(mL) Dilution Factor: 5

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
2691-41-0	HMX	0.25	U	0.49	0.25	0.093

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	91	D	48-130

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10020.d		
Lims ID:	280-22438-A-5-A	Client ID:	TP02 GW011
Inject. Date:	10-Nov-2011 13:49:49	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	280-22438-A-5-A 5x 280-0002741-018		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	63
Lims Batch ID:	95629	Lims Sample ID:	18
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:12	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 10-Nov-2011 14:20:46

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		769648	250.0			
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2598920	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1713881	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	134914	18.0			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

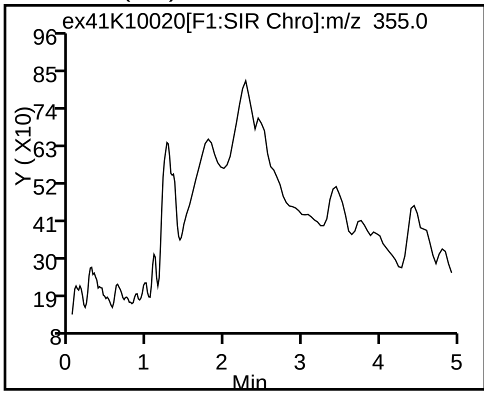
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		5295221	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0		8.254							
23 p-Nitrotoluene										
4	137.0		8.770							
24 m-Nitrotoluene										
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

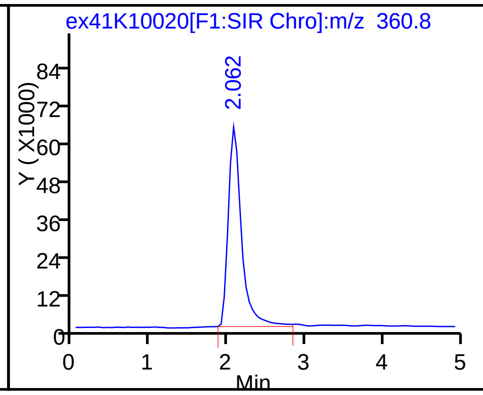
Processing Flags
1 - Missing Peaks

Report Date: 11-Nov-2011 06:40:24		Chrom Revision: 1.2 13-Jul-2011 10:43:06	
Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10020.d		
Injection Date:	10-Nov-2011 13:49:49	Limit Group:	LC - 8321A Expl
Client ID:	TP02 GW011	Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	18
Operator ID:		Injection Vol:	40.00 ul

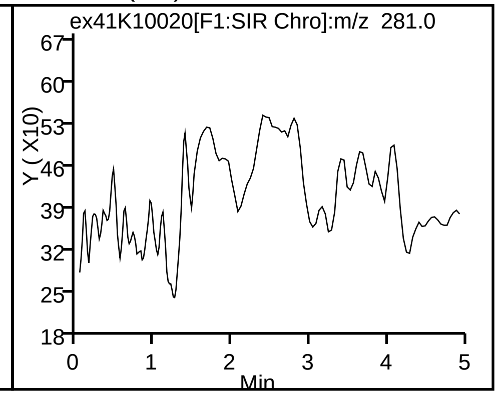
2 HMX (ND)



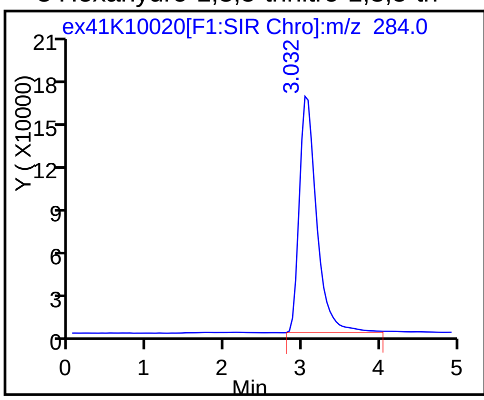
* 1 HMX-13C4



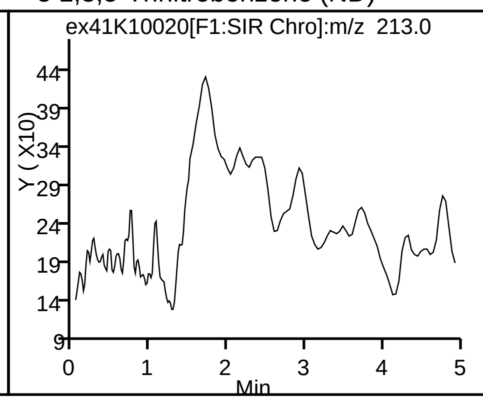
4 RDX (ND)



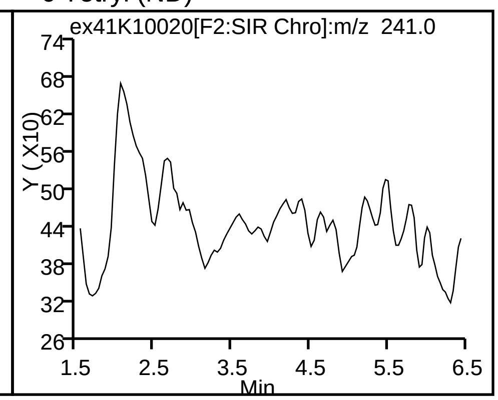
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



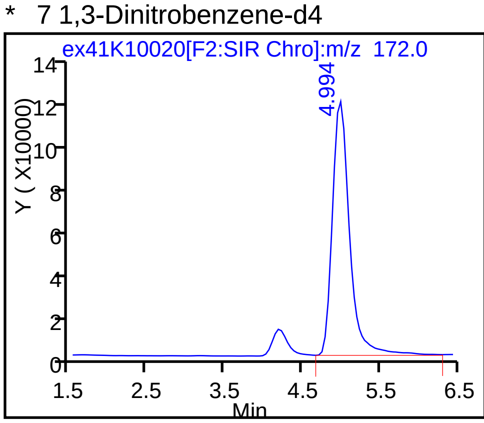
5 1,3,5-Trinitrobenzene (ND)



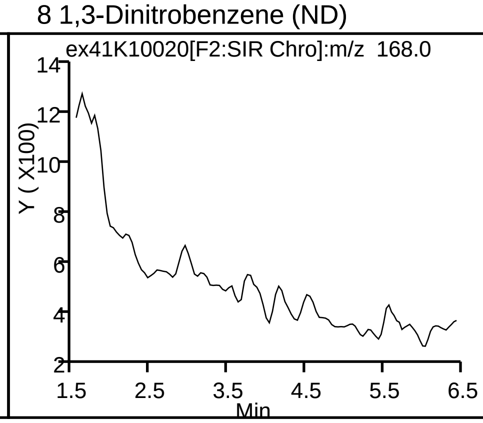
6 Tetryl (ND)



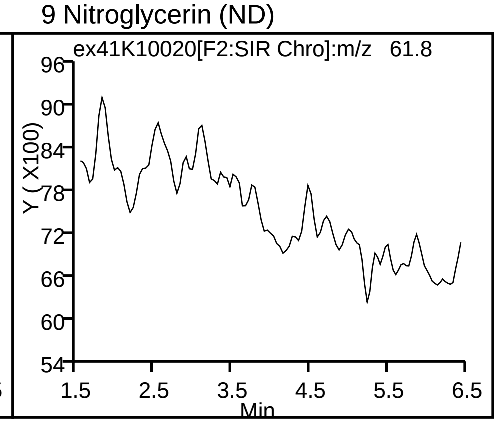
* 7 1,3-Dinitrobenzene-d4



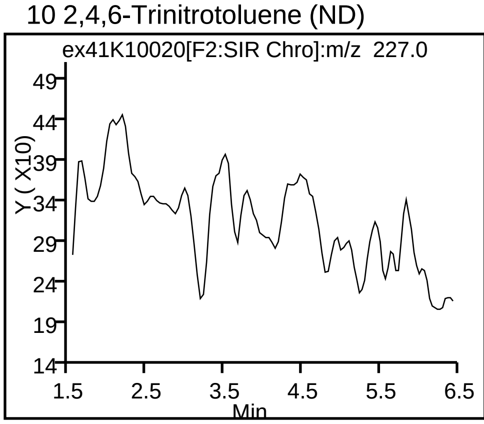
8 1,3-Dinitrobenzene (ND)



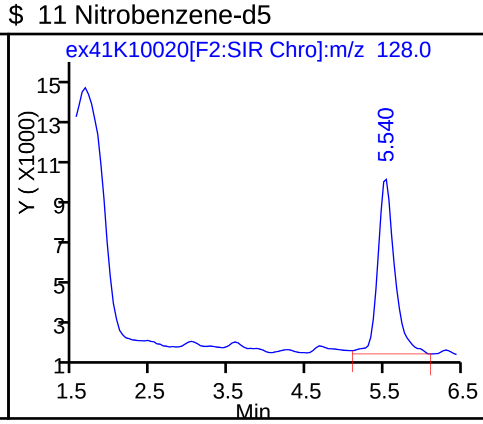
9 Nitroglycerin (ND)



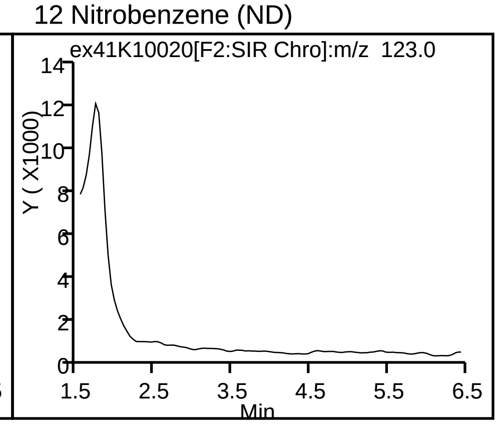
10 2,4,6-Trinitrotoluene (ND)



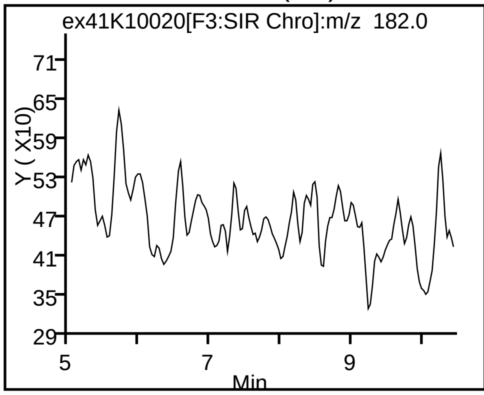
$ 11 Nitrobenzene-d5



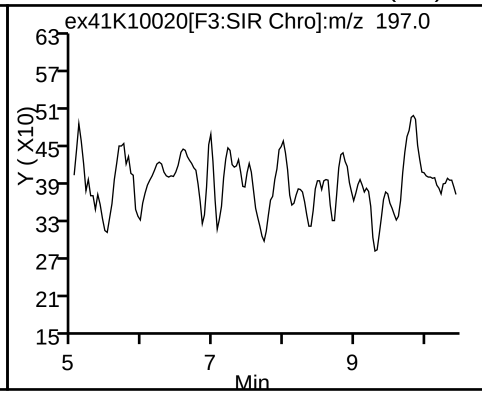
12 Nitrobenzene (ND)



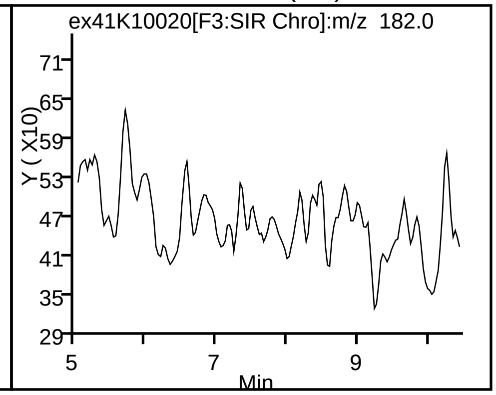
13 3,4-Dinitrotoluene (ND)



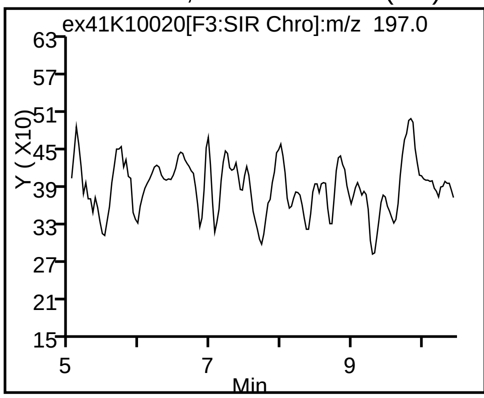
14 4-Amino-2,6-dinitrotoluene (ND)



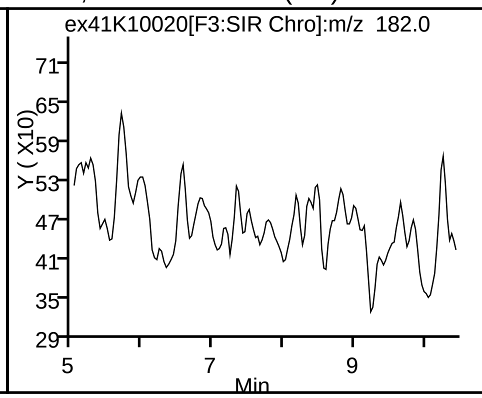
15 2,3-Dinitrotoluene (ND)



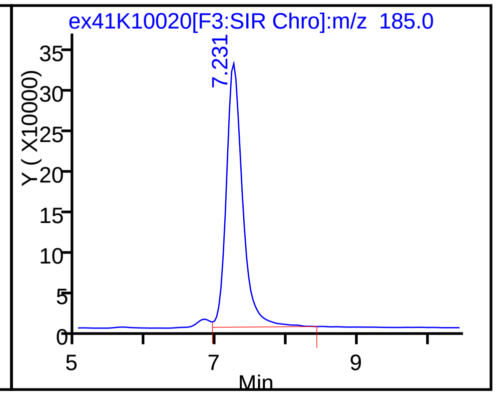
16 2-Amino-4,6-dinitrotoluene (ND)



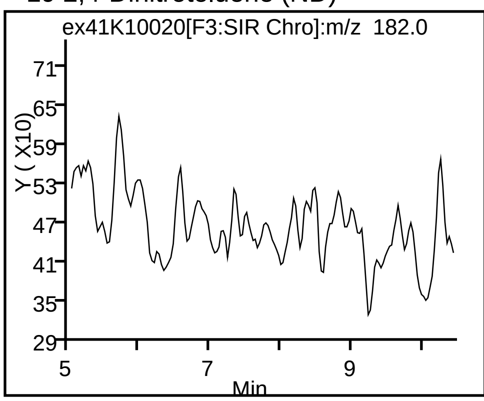
17 2,6-Dinitrotoluene (ND)



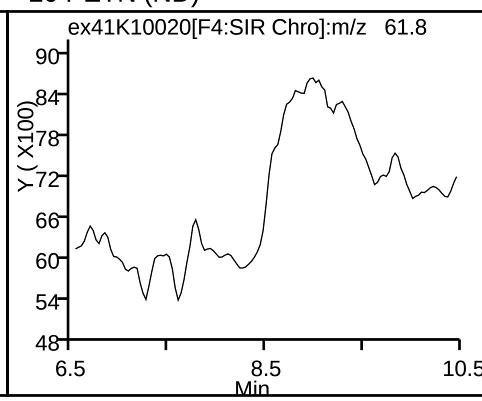
* 18 2,4-dinitrotoluene-d3



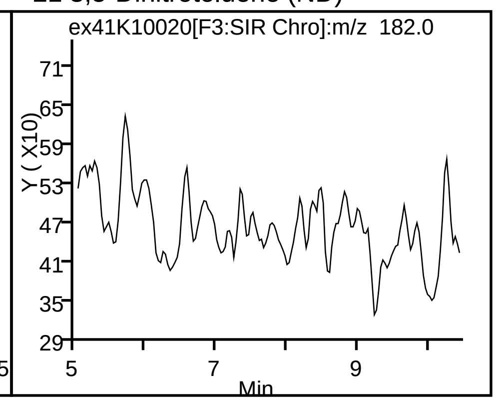
19 2,4-Dinitrotoluene (ND)



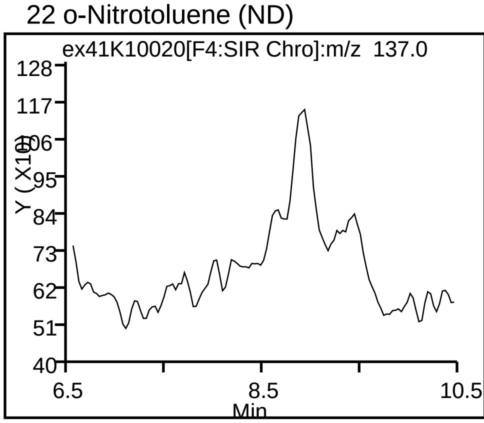
20 PETN (ND)



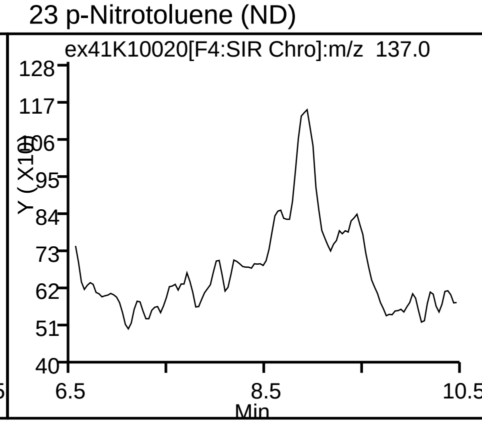
21 3,5-Dinitrotoluene (ND)



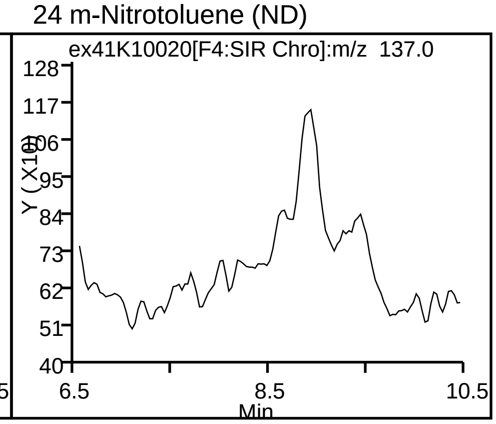
22 o-Nitrotoluene (ND)



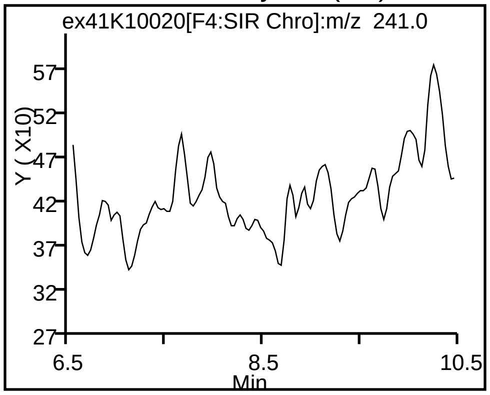
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Client Sample ID: TP04 GW013   Lab Sample ID: 280-22438-6

Matrix: Water   Lab File ID: ex41K10036.d

Analysis Method: 8321B   Date Collected: 11/02/2011 14:55

Extraction Method: 3535   Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1014.4(mL)   Date Analyzed: 11/10/2011 17:04

Con. Extract Vol.: 5(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95630   Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.049	U	0.099	0.049	0.017
99-65-0	1,3-Dinitrobenzene	0.049	U	0.099	0.049	0.014
118-96-7	2,4,6-Trinitrotoluene	0.049	U	0.099	0.049	0.022
121-14-2	2,4-Dinitrotoluene	0.049	U	0.099	0.049	0.019
606-20-2	2,6-Dinitrotoluene	0.049	U	0.099	0.049	0.022
35572-78-2	2-Amino-4,6-dinitrotoluene	0.049	U	0.099	0.049	0.021
88-72-2	2-Nitrotoluene	0.049	U	0.099	0.049	0.022
99-08-1	3-Nitrotoluene	0.049	U	0.099	0.049	0.025
19406-51-0	4-Amino-2,6-dinitrotoluene	0.049	U	0.099	0.049	0.019
99-99-0	4-Nitrotoluene	0.049	U	0.099	0.049	0.026
98-95-3	Nitrobenzene	0.049	U	0.099	0.049	0.033
55-63-0	Nitroglycerin	0.049	U	0.14	0.049	0.044
78-11-5	PETN	0.049	U	0.099	0.049	0.018
121-82-4	RDX	0.049	U	0.099	0.049	0.021
479-45-8	Tetryl	0.049	U	0.099	0.049	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	84		48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10036.d		
Lims ID:	280-22438-A-6-A	Client ID:	TP04 GW013
Inject. Date:	10-Nov-2011 17:04:45	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-A-6-A 280-0002741-034		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	51
Lims Batch ID:	95630	Lims Sample ID:	34
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:31	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 11-Nov-2011 06:34:07

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										s
1	360.8	2.062	2.062	0.000		262108	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		1664267	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1655536	258.7			
8 1,3-Dinitrobenzene										
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	602922	83.4			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.122							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.715							
17 2,6-Dinitrotoluene										1
3	182.0		6.867							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.201	0.061		4339539	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.292							
20 PETN										1
4	61.8		7.737							
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.800							
24 m-Nitrotoluene										1
4	137.0		9.468							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

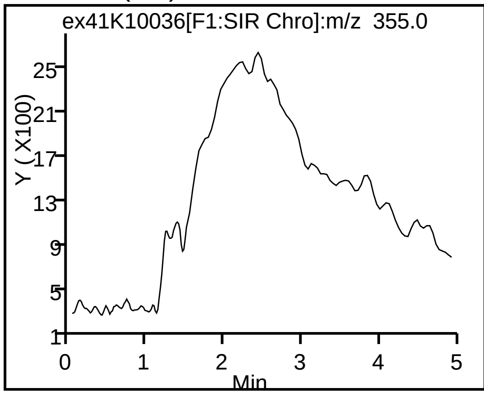
QC Flag Legend

Processing Flags
1 - Missing Peaks
s - Failed ISTD Recovery Test

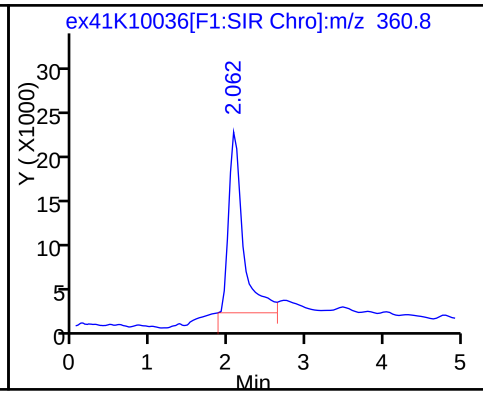
Report Date: 11-Nov-2011 06:40:36 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10036.d

Injection Date:	10-Nov-2011 17:04:45	Limit Group:	LC - 8321A Expl
Client ID:	TP04 GW013	Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	34
Operator ID:		Injection Vol:	40.00 ul

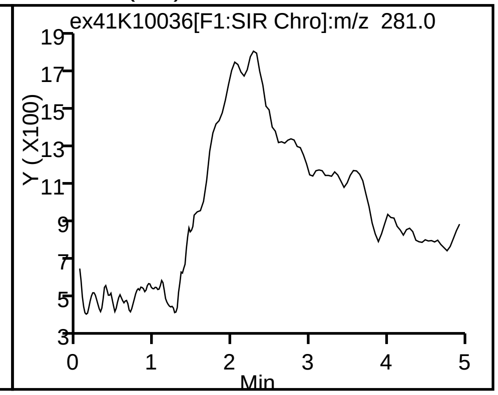
2 HMX (ND)



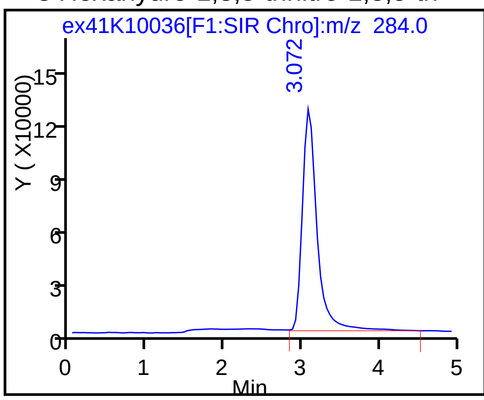
* 1 HMX-13C4



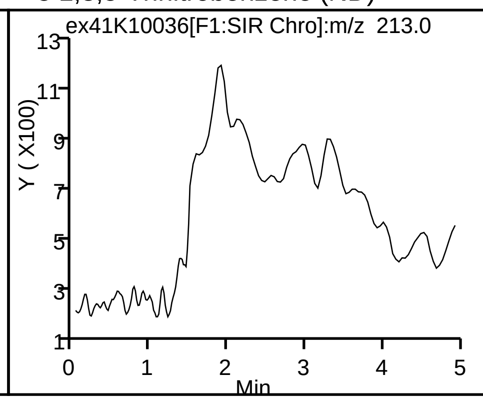
4 RDX (ND)



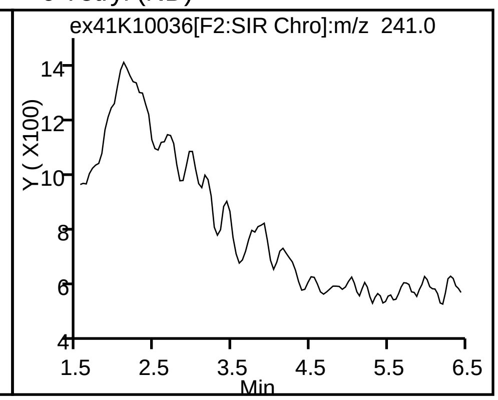
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



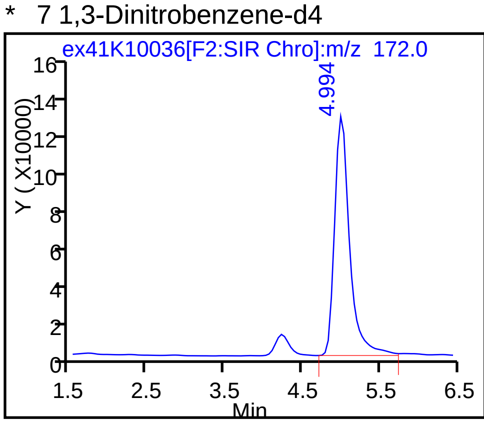
5 1,3,5-Trinitrobenzene (ND)



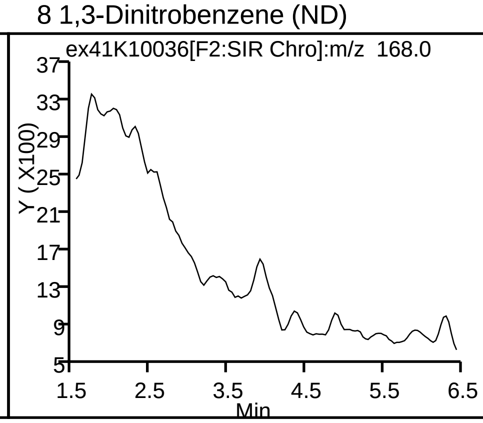
6 Tetryl (ND)



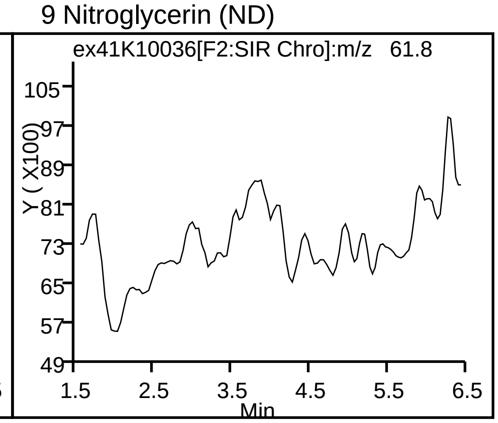
* 7 1,3-Dinitrobenzene-d4



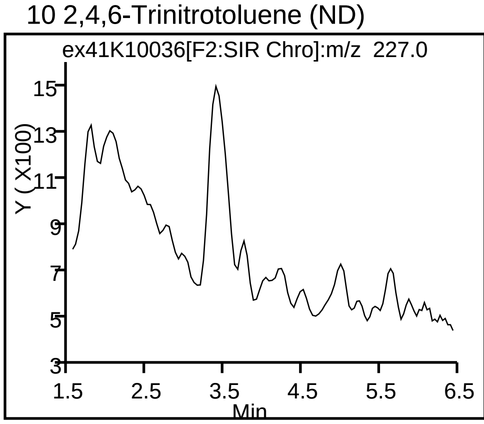
8 1,3-Dinitrobenzene (ND)



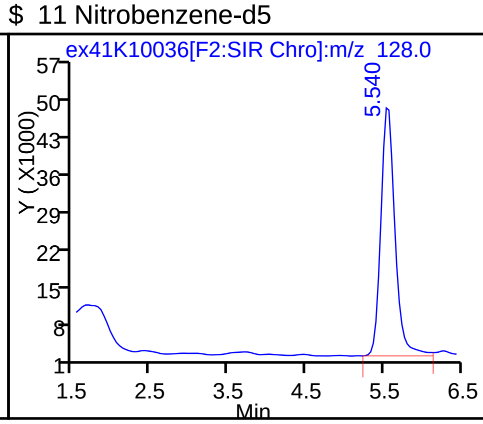
9 Nitroglycerin (ND)



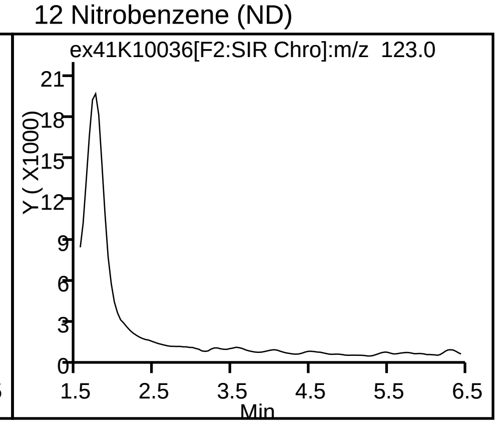
10 2,4,6-Trinitrotoluene (ND)



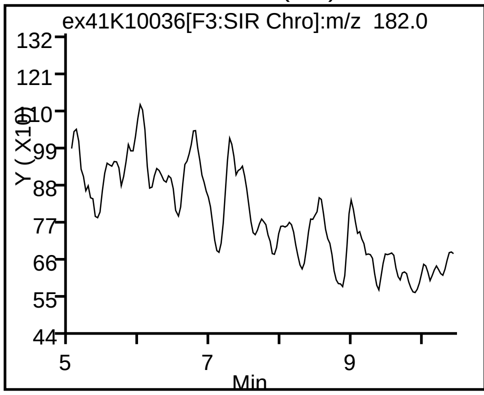
$ 11 Nitrobenzene-d5



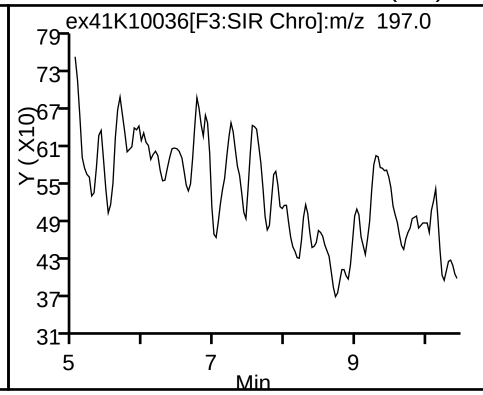
12 Nitrobenzene (ND)



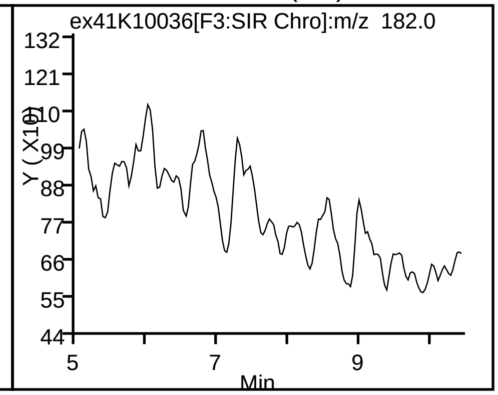
13 3,4-Dinitrotoluene (ND)



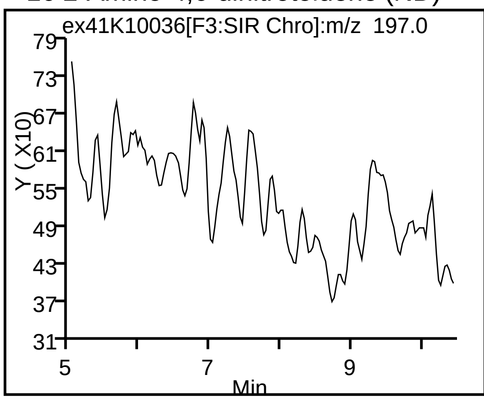
14 4-Amino-2,6-dinitrotoluene (ND)



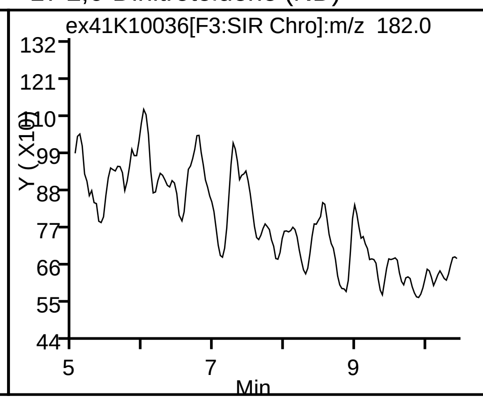
15 2,3-Dinitrotoluene (ND)



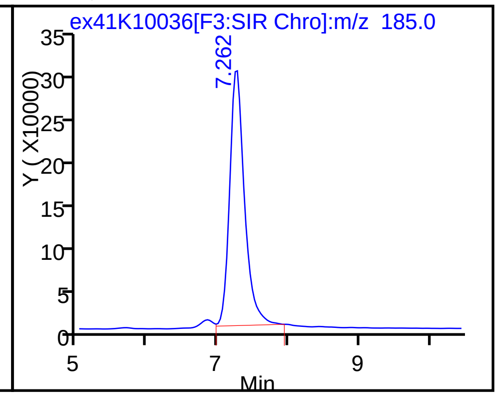
16 2-Amino-4,6-dinitrotoluene (ND)



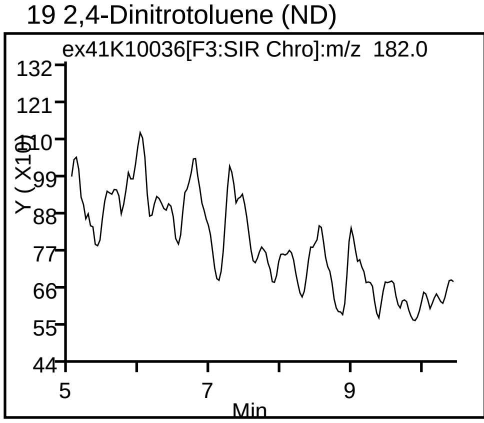
17 2,6-Dinitrotoluene (ND)



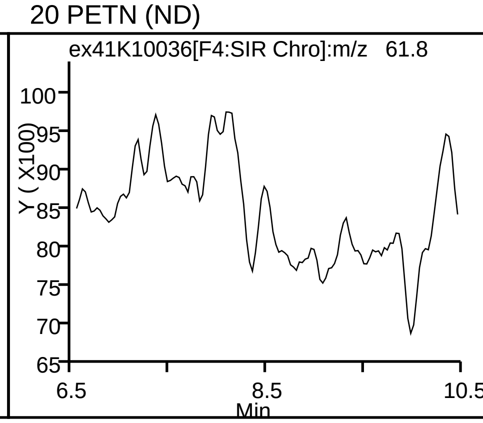
* 18 2,4-dinitrotoluene-d3



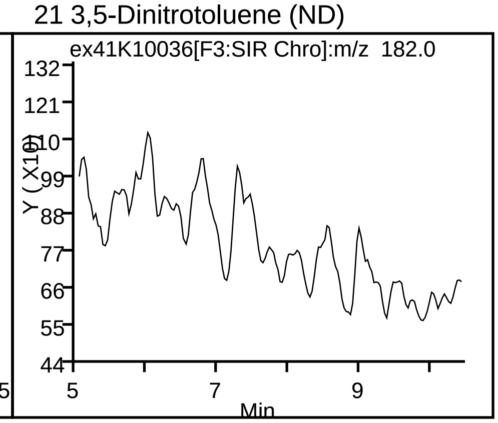
19 2,4-Dinitrotoluene (ND)



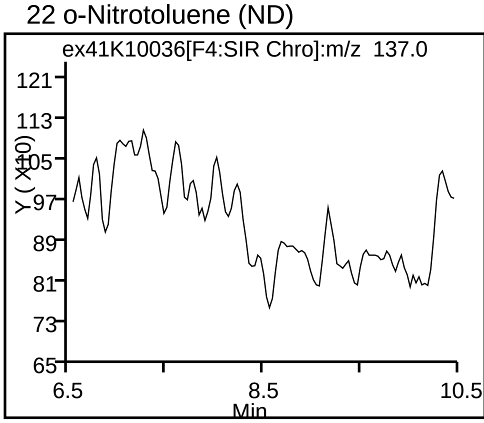
20 PETN (ND)



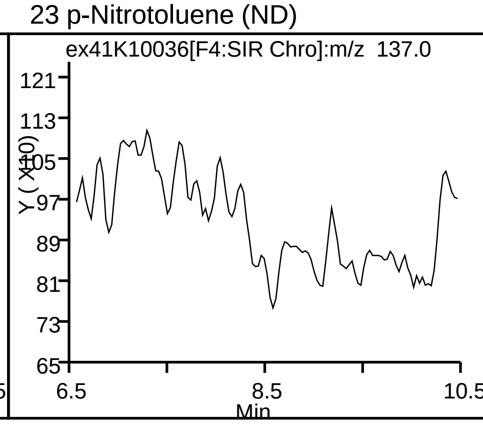
21 3,5-Dinitrotoluene (ND)



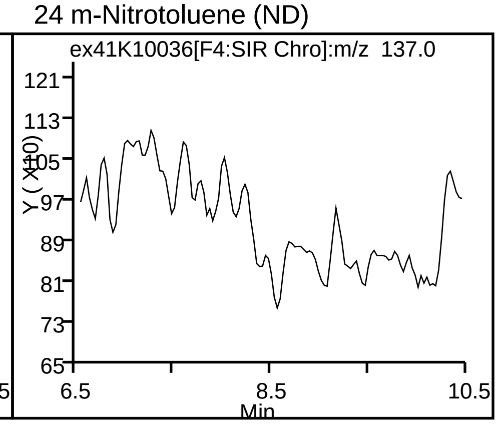
22 o-Nitrotoluene (ND)



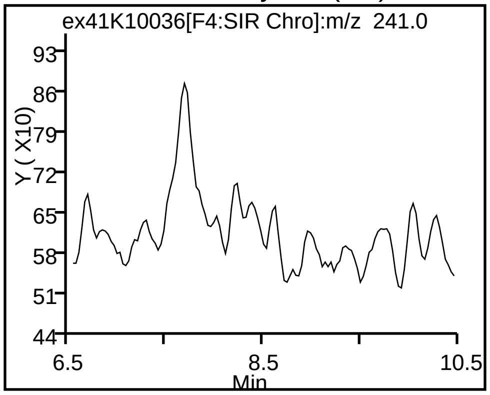
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG No.:

Client Sample ID: TP04 GW013 DL

Lab Sample ID: 280-22438-6 DL

Matrix: Water

Lab File ID: ex41K10022.d

Analysis Method: 8321B

Date Collected: 11/02/2011 14:55

Extraction Method: 3535

Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1014.4(mL)

Date Analyzed: 11/10/2011 14:14

Con. Extract Vol.: 5(mL)

Dilution Factor: 5

Injection Volume: 40(uL)

GC Column: IonPac ID: 2(mm)

% Moisture:

GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
2691-41-0	HMX	0.25	U	0.49	0.25	0.094

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	79	D	48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10022.d		
Lims ID:	280-22438-A-6-A	Client ID:	TP04 GW013
Inject. Date:	10-Nov-2011 14:14:15	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	280-22438-A-6-A 5x 280-0002741-020		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	64
Lims Batch ID:	95629	Lims Sample ID:	20
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:25	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:31:11

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		771309	250.0			
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2783802	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		2018479	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	137441	15.6			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4548087	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0		8.254							
23 p-Nitrotoluene										
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

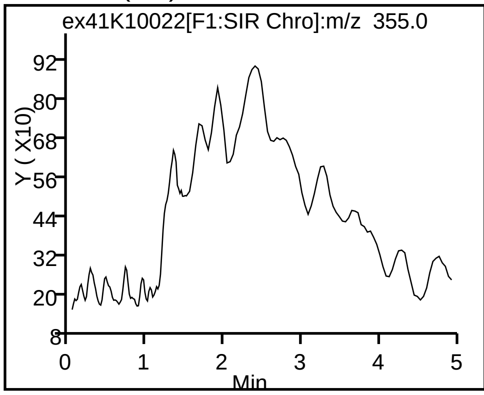
QC Flag Legend

Processing Flags
1 - Missing Peaks

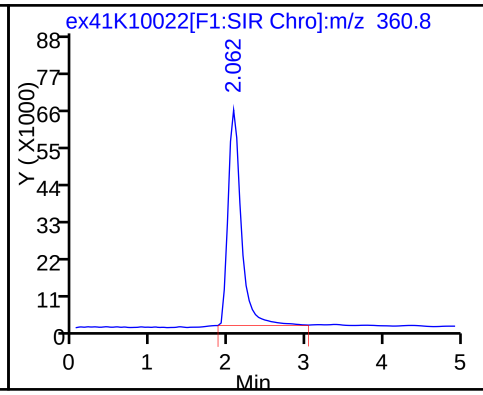
Report Date: 11-Nov-2011 06:40:27 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10022.d

Injection Date:	10-Nov-2011 14:14:15	Limit Group:	LC - 8321A Expl
Client ID:	TP04 GW013	Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	20
Operator ID:		Injection Vol:	40.00 ul

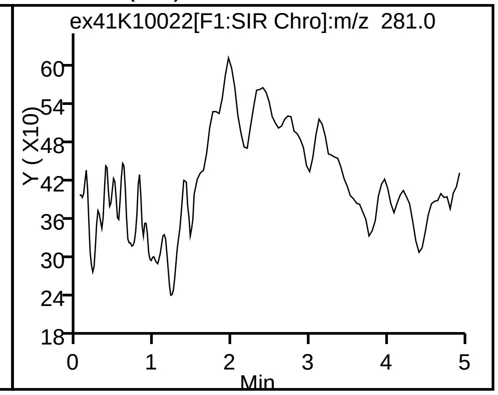
2 HMX (ND)



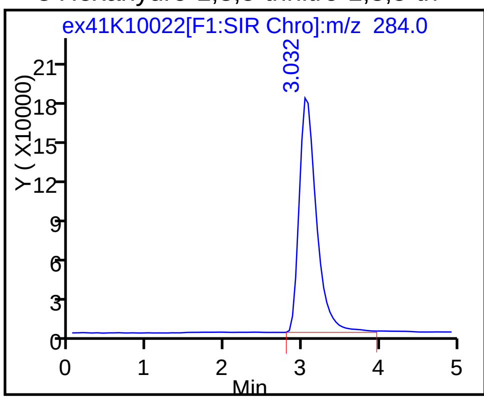
* 1 HMX-13C4



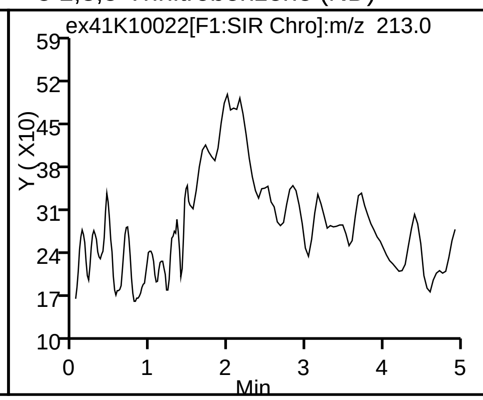
4 RDX (ND)



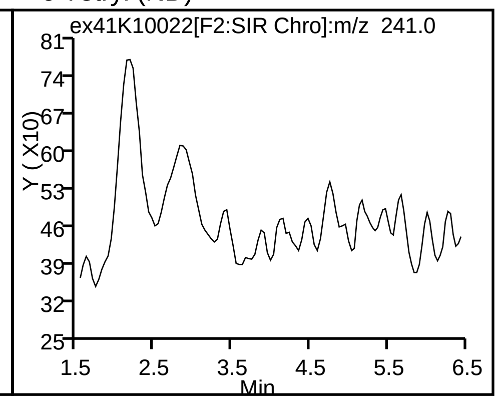
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



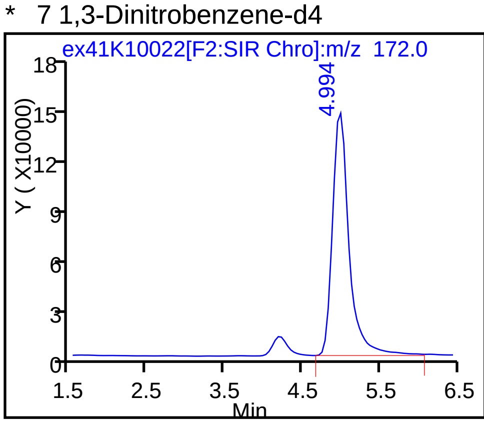
5 1,3,5-Trinitrobenzene (ND)



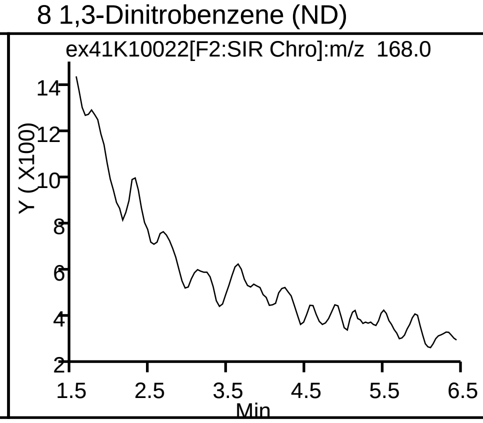
6 Tetryl (ND)



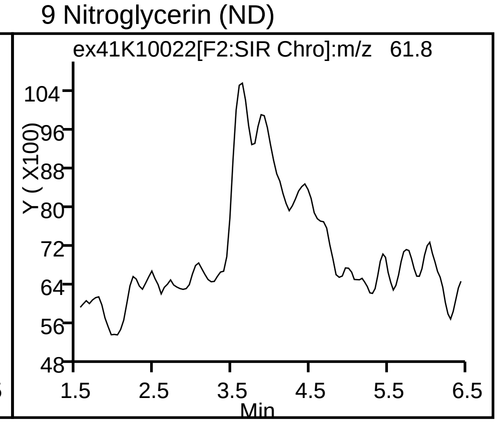
* 7 1,3-Dinitrobenzene-d4



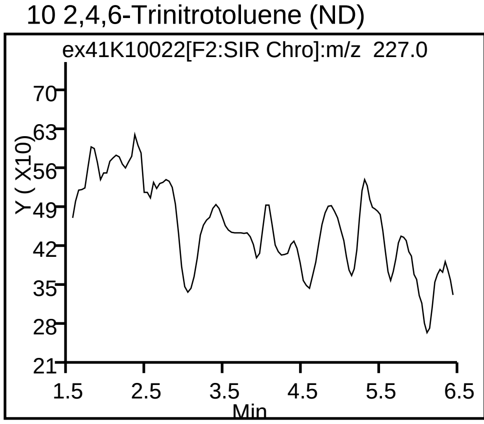
8 1,3-Dinitrobenzene (ND)



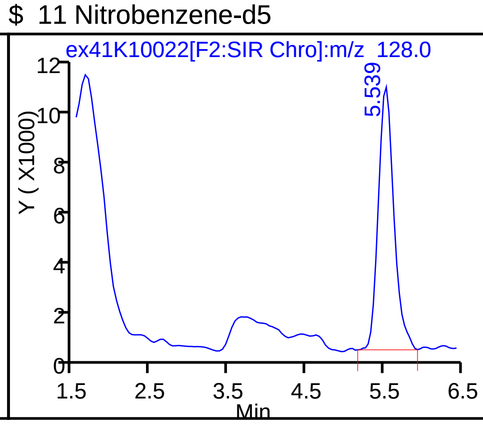
9 Nitroglycerin (ND)



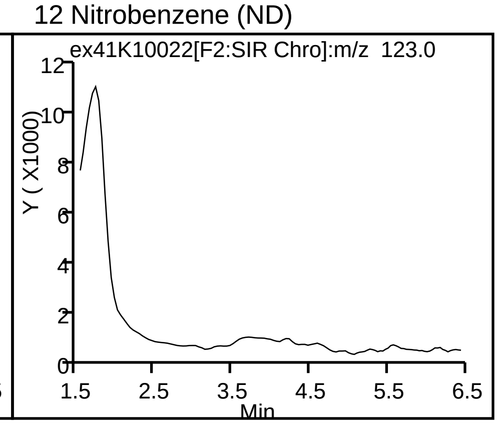
10 2,4,6-Trinitrotoluene (ND)



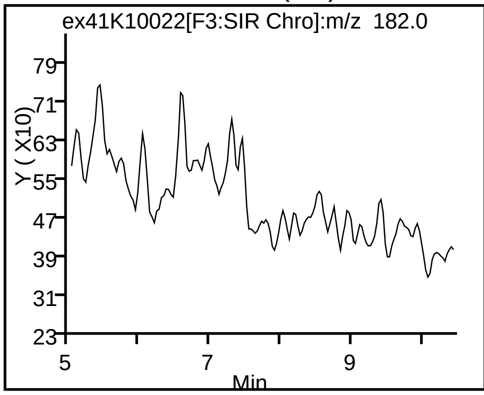
$ 11 Nitrobenzene-d5



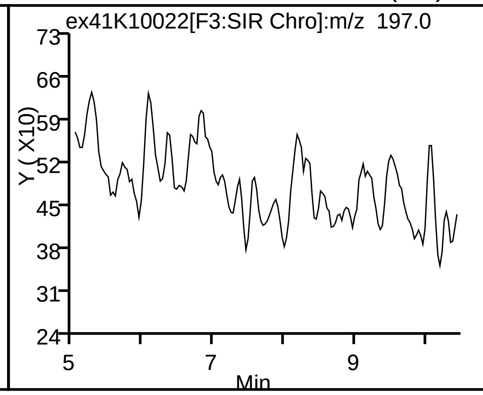
12 Nitrobenzene (ND)



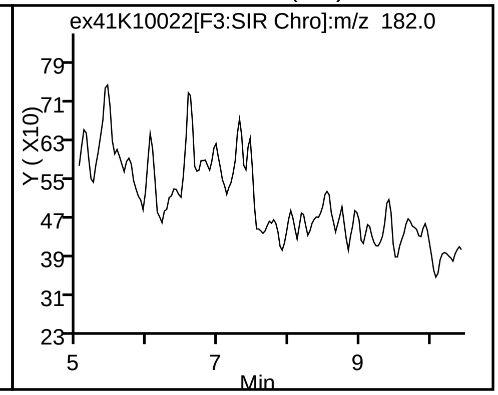
13 3,4-Dinitrotoluene (ND)



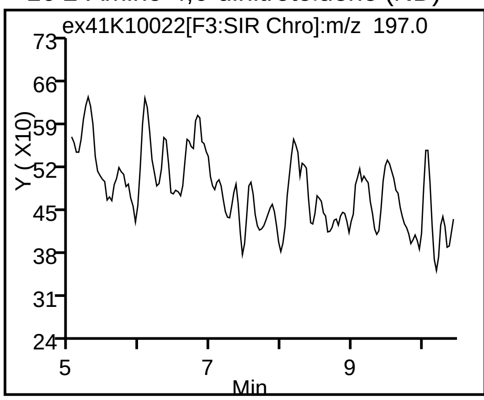
14 4-Amino-2,6-dinitrotoluene (ND)



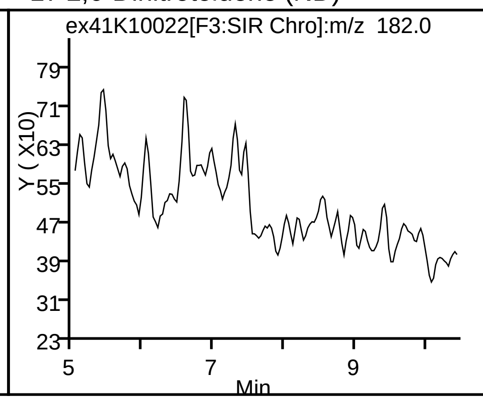
15 2,3-Dinitrotoluene (ND)



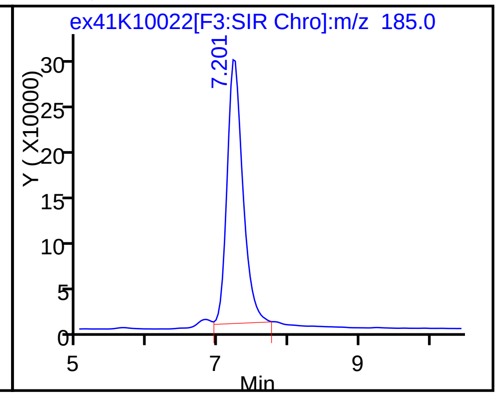
16 2-Amino-4,6-dinitrotoluene (ND)



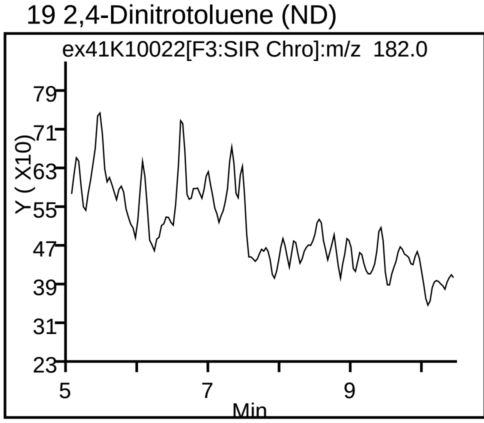
17 2,6-Dinitrotoluene (ND)



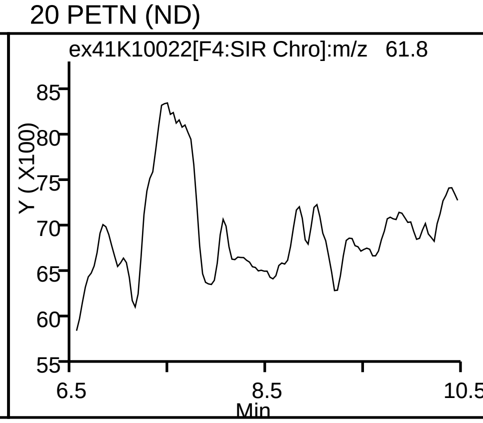
* 18 2,4-dinitrotoluene-d3



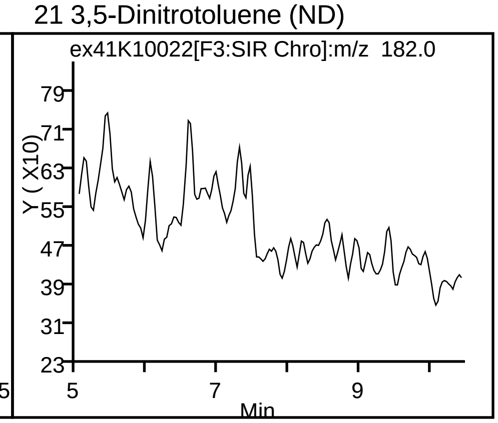
19 2,4-Dinitrotoluene (ND)



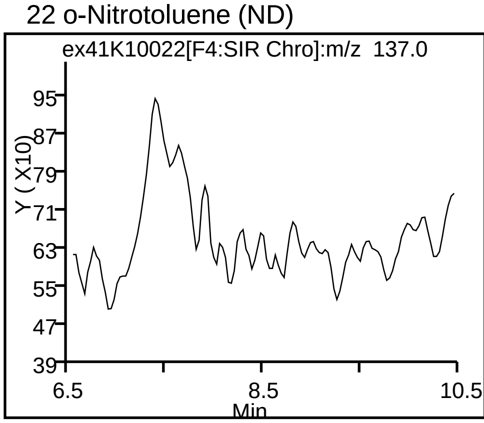
20 PETN (ND)



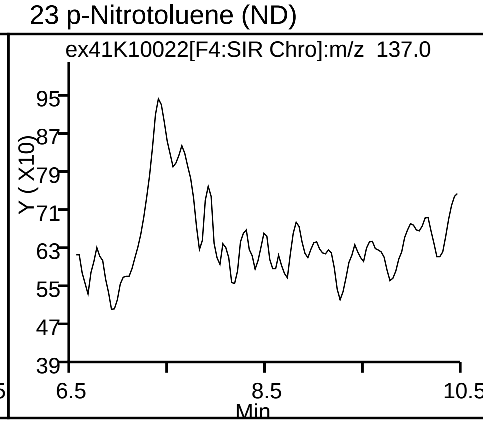
21 3,5-Dinitrotoluene (ND)



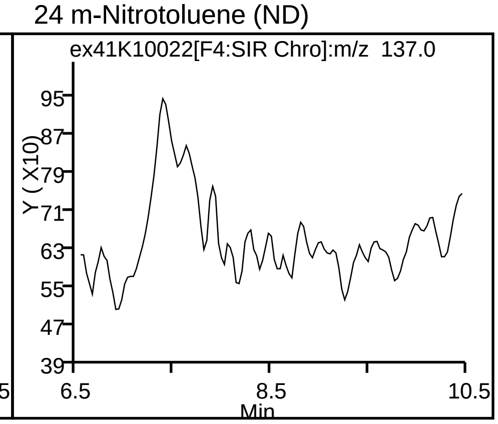
22 o-Nitrotoluene (ND)



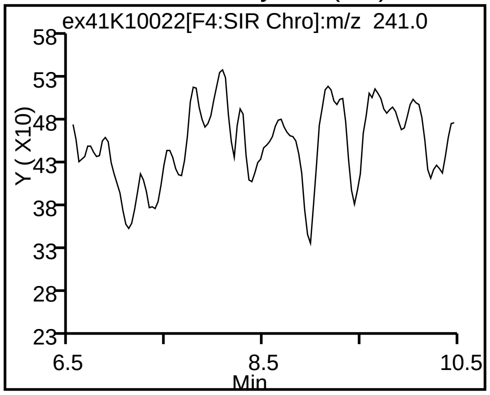
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG No.:

Client Sample ID: TP04 GW014 | Lab Sample ID: 280-22438-7

Matrix: Water | Lab File ID: ex41K10038.d

Analysis Method: 8321B | Date Collected: 11/02/2011 14:55

Extraction Method: 3535 | Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1003.3(mL) | Date Analyzed: 11/10/2011 17:29

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95630 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.10	0.050	0.017
99-65-0	1,3-Dinitrobenzene	0.050	U	0.10	0.050	0.014
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.10	0.050	0.022
121-14-2	2,4-Dinitrotoluene	0.050	U	0.10	0.050	0.019
606-20-2	2,6-Dinitrotoluene	0.050	U	0.10	0.050	0.022
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.10	0.050	0.021
88-72-2	2-Nitrotoluene	0.050	U	0.10	0.050	0.022
99-08-1	3-Nitrotoluene	0.050	U	0.10	0.050	0.025
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.10	0.050	0.019
99-99-0	4-Nitrotoluene	0.050	U	0.10	0.050	0.026
98-95-3	Nitrobenzene	0.050	U	0.10	0.050	0.033
55-63-0	Nitroglycerin	0.050	U	0.14	0.050	0.045
78-11-5	PETN	0.050	U	0.10	0.050	0.018
121-82-4	RDX	0.050	U	0.10	0.050	0.021
479-45-8	Tetryl	0.050	U	0.10	0.050	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10038.d		
Lims ID:	280-22438-B-7-B	Client ID:	TP04 GW014
Inject. Date:	10-Nov-2011 17:29:11	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-B-7-B 280-0002741-036		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	52
Lims Batch ID:	95630	Lims Sample ID:	36
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:36	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:34:29

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										s
1	360.8	2.062	2.062	0.000		305131	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		1745399	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	5.035	4.954	0.081		1893251	258.7			
8 1,3-Dinitrobenzene										
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.472	0.068	1.100	618349	74.8			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.170	0.092		4882414	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

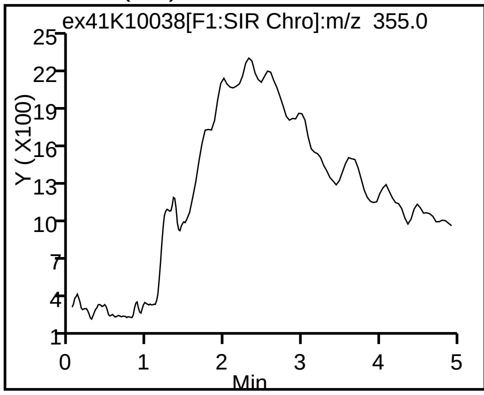
QC Flag Legend

Processing Flags
1 - Missing Peaks
s - Failed ISTD Recovery Test

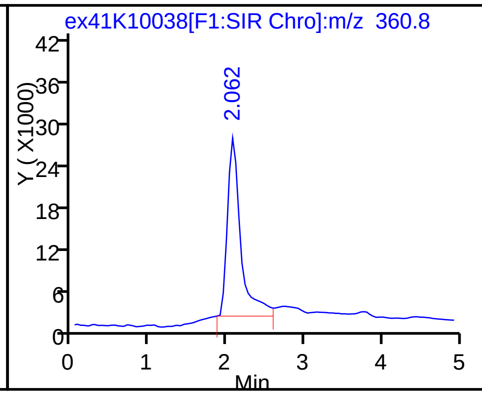
Report Date: 11-Nov-2011 06:40:38 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10038.d

Injection Date:	10-Nov-2011 17:29:11	Limit Group:	LC - 8321A Expl
Client ID:	TP04 GW014	Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	36
Operator ID:		Injection Vol:	40.00 ul

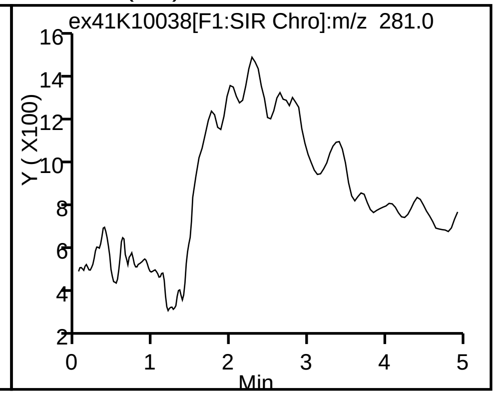
2 HMX (ND)



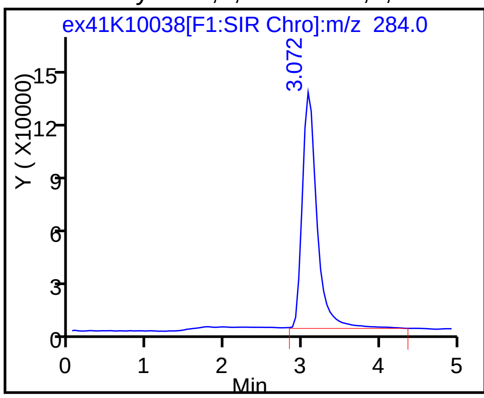
* 1 HMX-13C4



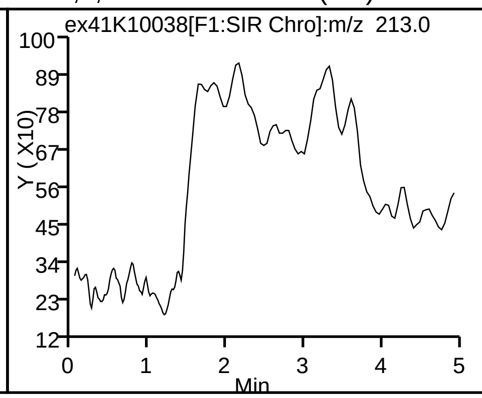
4 RDX (ND)



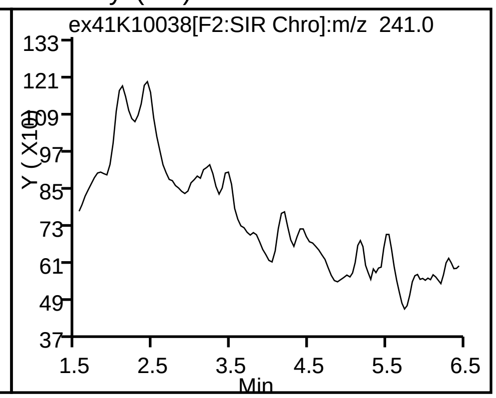
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



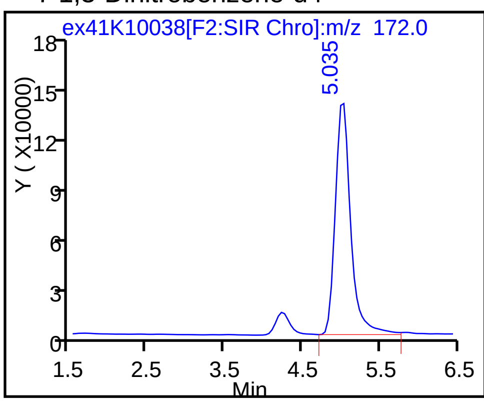
5 1,3,5-Trinitrobenzene (ND)



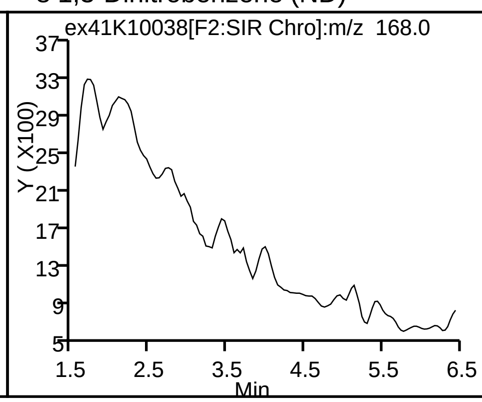
6 Tetryl (ND)



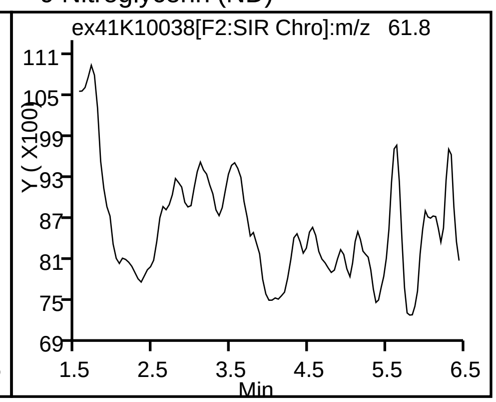
* 7 1,3-Dinitrobenzene-d4



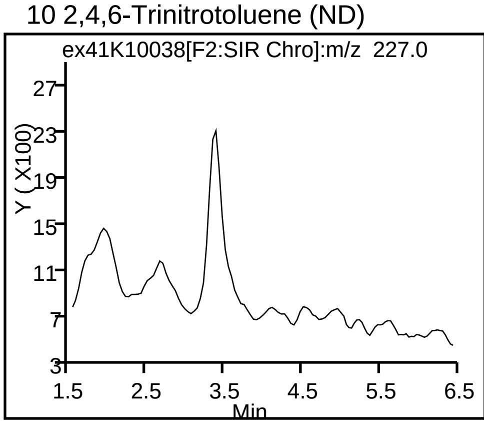
8 1,3-Dinitrobenzene (ND)



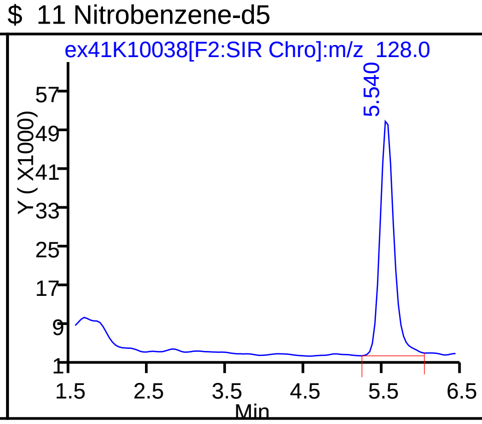
9 Nitroglycerin (ND)



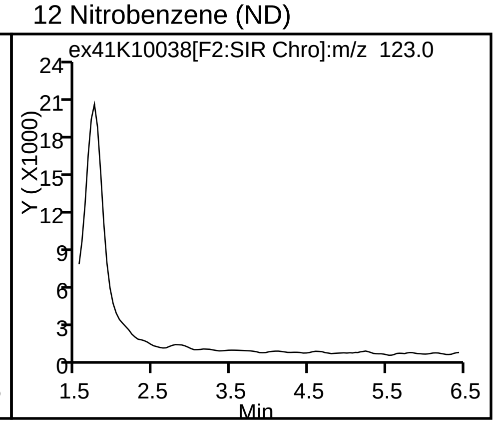
10 2,4,6-Trinitrotoluene (ND)



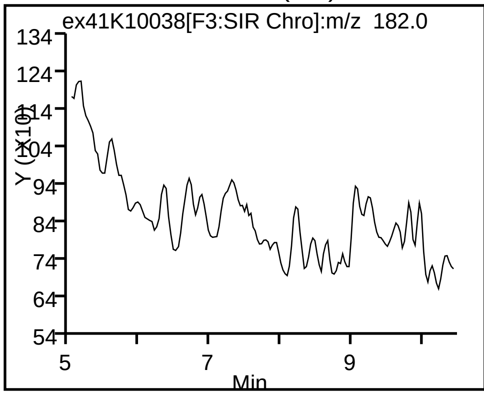
$ 11 Nitrobenzene-d5



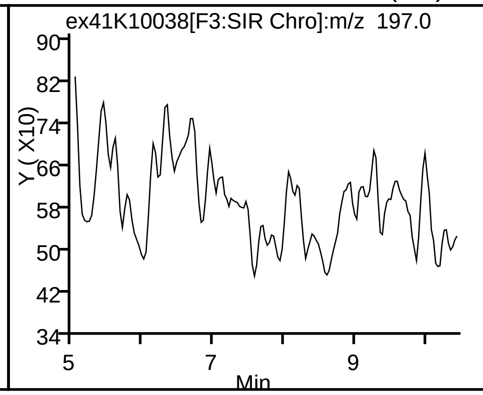
12 Nitrobenzene (ND)



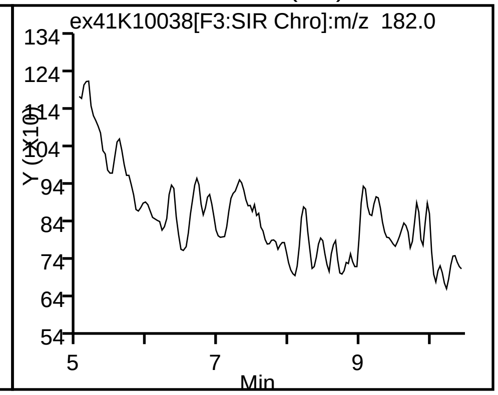
13 3,4-Dinitrotoluene (ND)



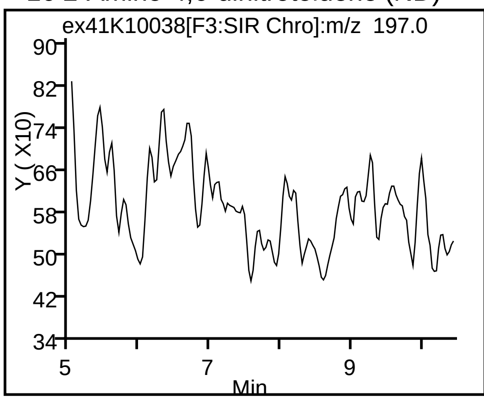
14 4-Amino-2,6-dinitrotoluene (ND)



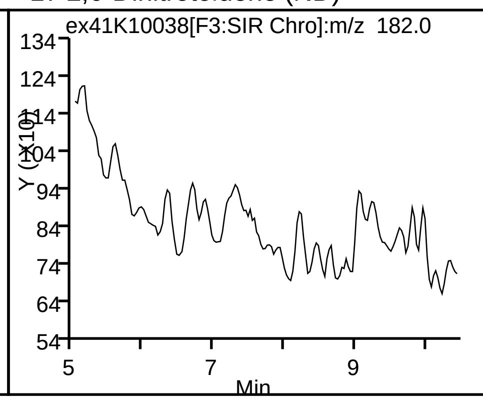
15 2,3-Dinitrotoluene (ND)



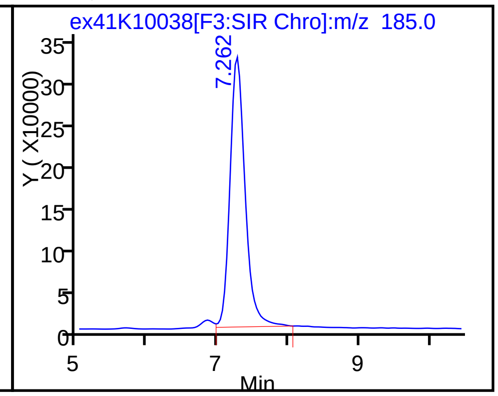
16 2-Amino-4,6-dinitrotoluene (ND)



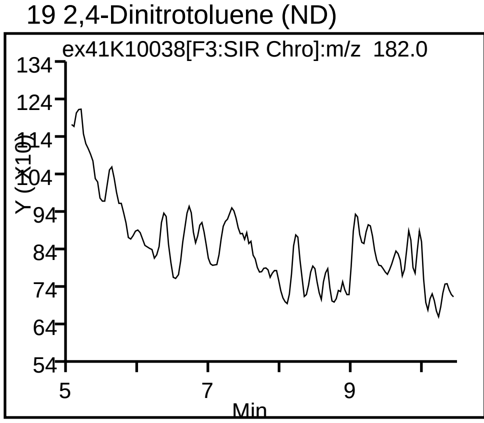
17 2,6-Dinitrotoluene (ND)



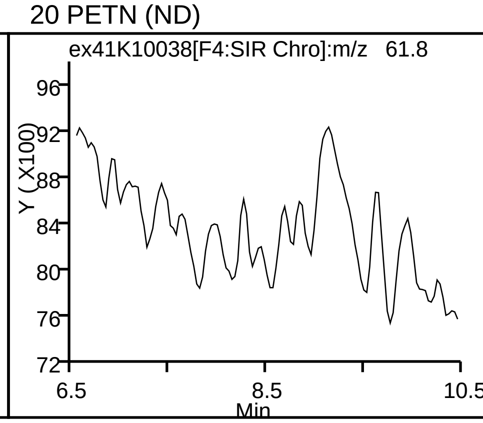
* 18 2,4-dinitrotoluene-d3



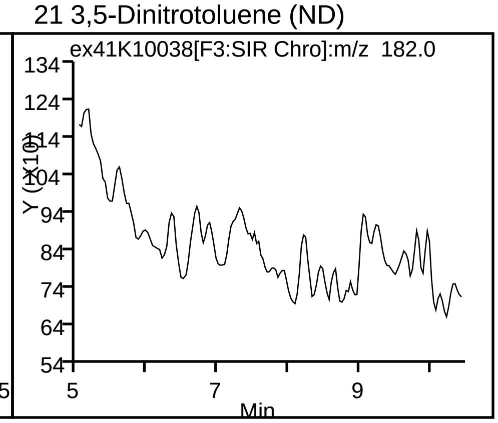
19 2,4-Dinitrotoluene (ND)



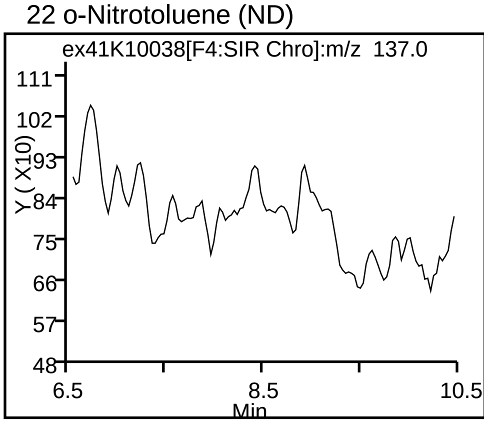
20 PETN (ND)



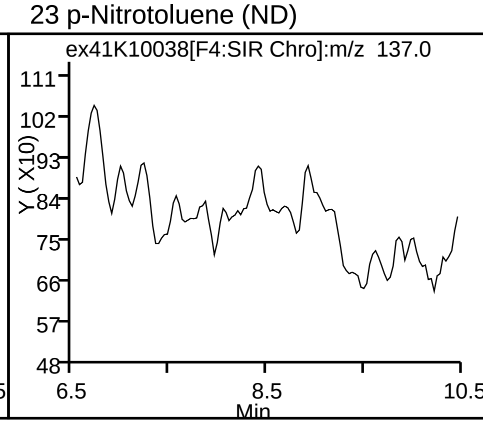
21 3,5-Dinitrotoluene (ND)



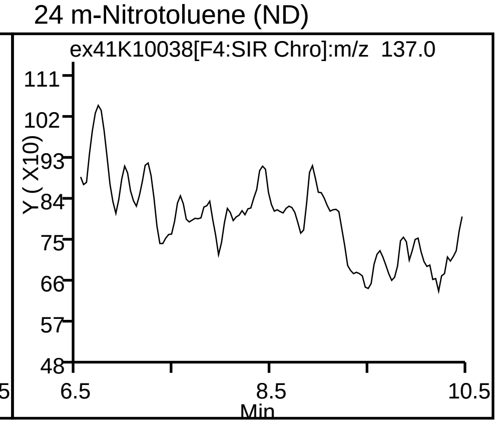
22 o-Nitrotoluene (ND)



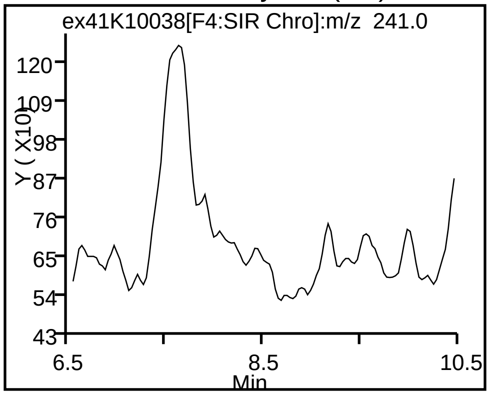
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG No.:

Client Sample ID: TP04 GW014 DL | Lab Sample ID: 280-22438-7 DL

Matrix: Water | Lab File ID: ex41K10023.d

Analysis Method: 8321B | Date Collected: 11/02/2011 14:55

Extraction Method: 3535 | Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1003.3(mL) | Date Analyzed: 11/10/2011 14:26

Con. Extract Vol.: 5(mL) | Dilution Factor: 5

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
2691-41-0	HMX	0.25	U	0.50	0.25	0.095

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	90	D	48-130

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10023.d		
Lims ID:	280-22438-B-7-B	Client ID:	TP04 GW014
Inject. Date:	10-Nov-2011 14:26:36	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	280-22438-B-7-B 5x 280-0002741-021		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	65
Lims Batch ID:	95629	Lims Sample ID:	21
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:25	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		700405	250.0			
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2769469	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1850847	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	143378	17.8			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.837							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.201	7.201	0.000		4910804	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									1
4	61.8		7.707							
21	3,5-Dinitrotoluene									1
3	182.0		7.808							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.770							
24	m-Nitrotoluene									1
4	137.0		9.438							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.258							

QC Flag Legend

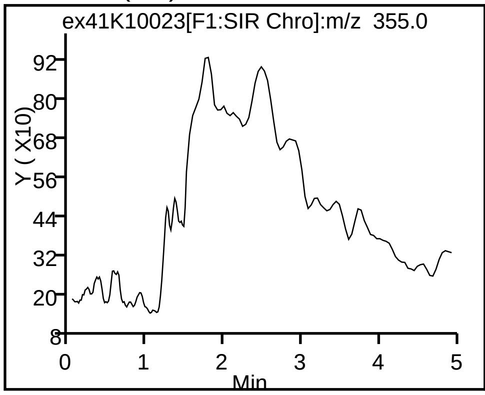
Processing Flags
1 - Missing Peaks

Report Date: 11-Nov-2011 06:40:27　　Chrom Revision: 1.2 13-Jul-2011 10:43:06

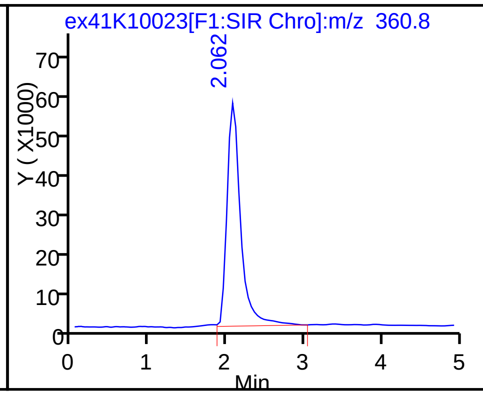
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10023.d

Injection Date:	10-Nov-2011 14:26:36	Limit Group:	LC - 8321A Expl
Client ID:	TP04 GW014	Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	21
Operator ID:		Injection Vol:	40.00 ul

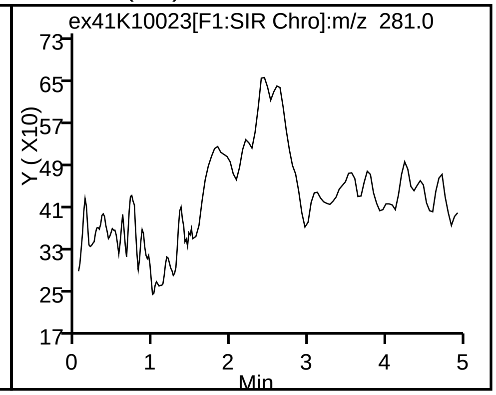
2 HMX (ND)



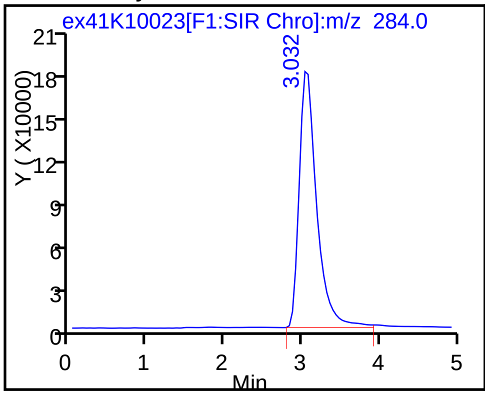
* 1 HMX-13C4



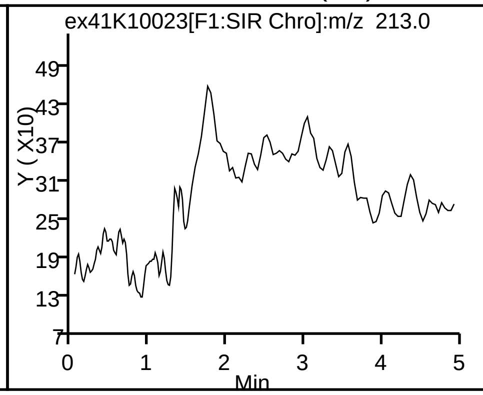
4 RDX (ND)



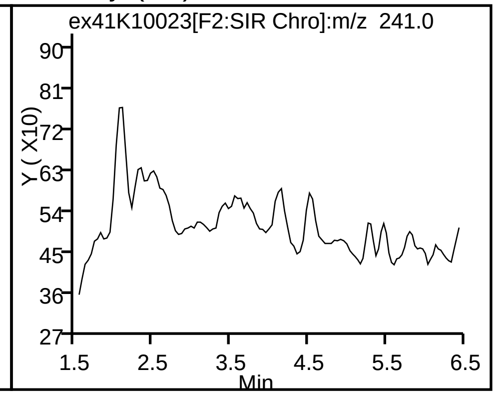
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



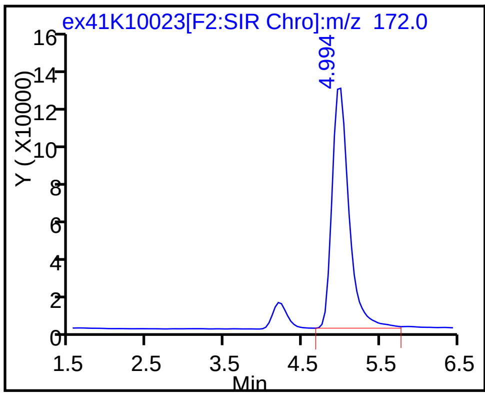
5 1,3,5-Trinitrobenzene (ND)



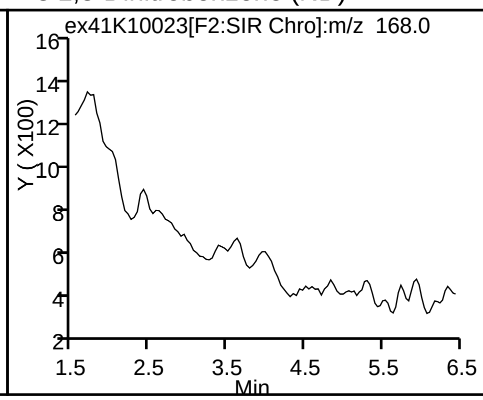
6 Tetryl (ND)



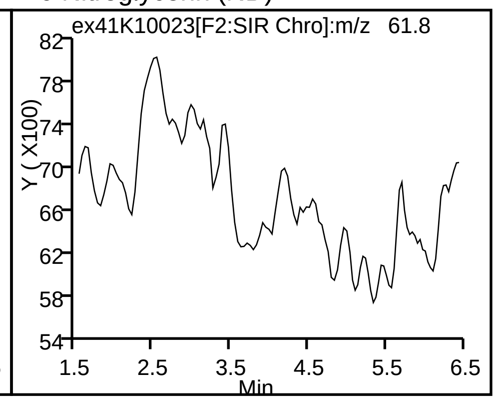
* 7 1,3-Dinitrobenzene-d4



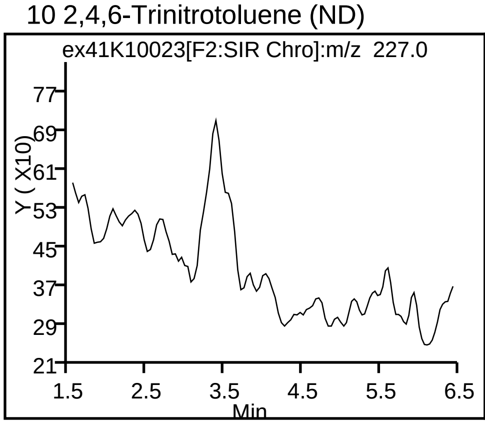
8 1,3-Dinitrobenzene (ND)



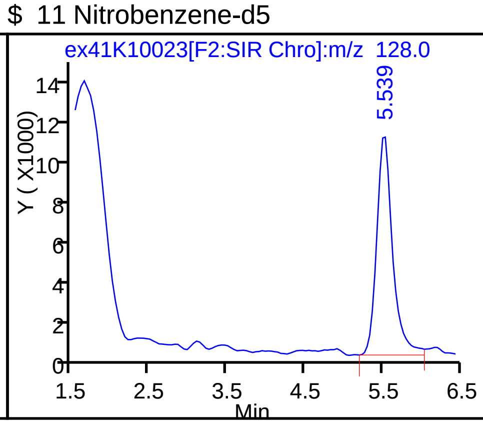
9 Nitroglycerin (ND)



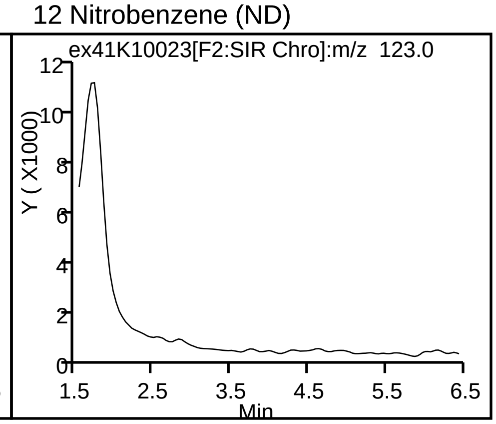
10 2,4,6-Trinitrotoluene (ND)



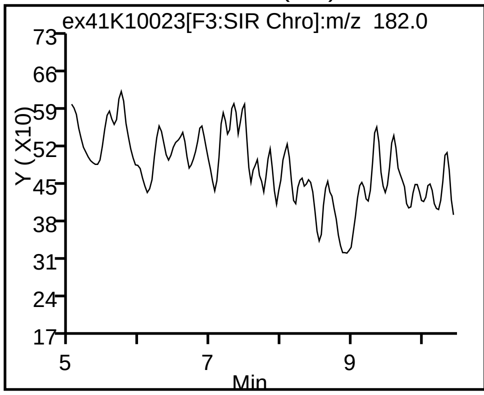
$ 11 Nitrobenzene-d5



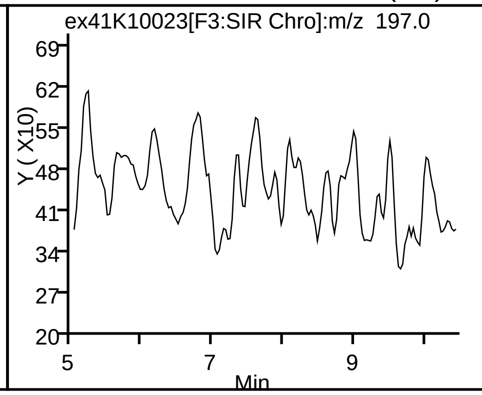
12 Nitrobenzene (ND)



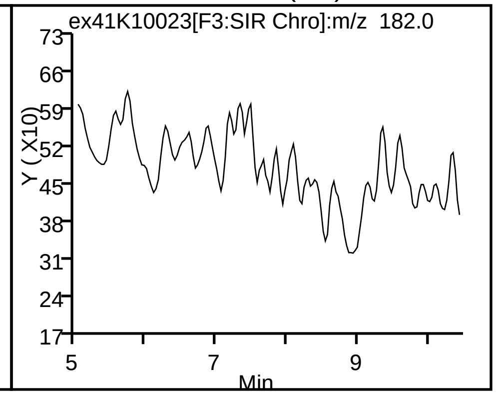
13 3,4-Dinitrotoluene (ND)



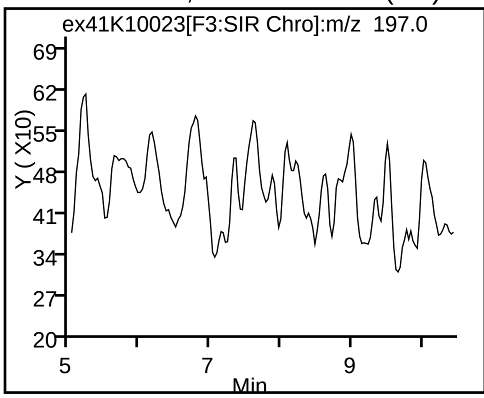
14 4-Amino-2,6-dinitrotoluene (ND)



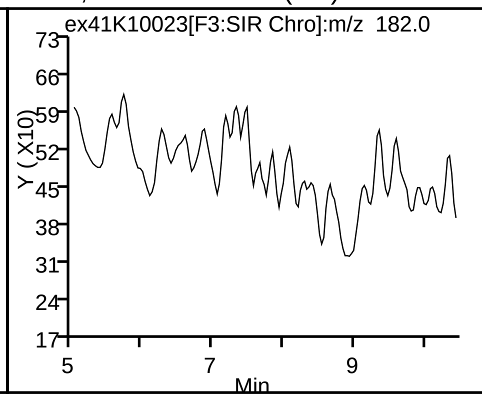
15 2,3-Dinitrotoluene (ND)



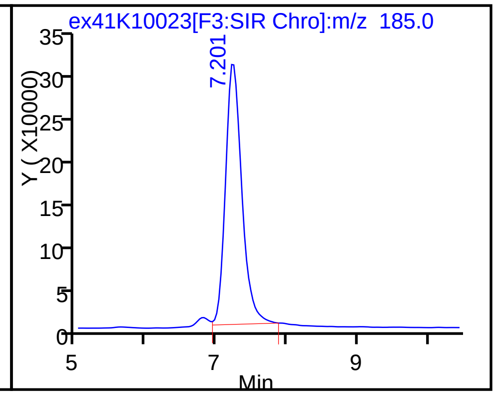
16 2-Amino-4,6-dinitrotoluene (ND)



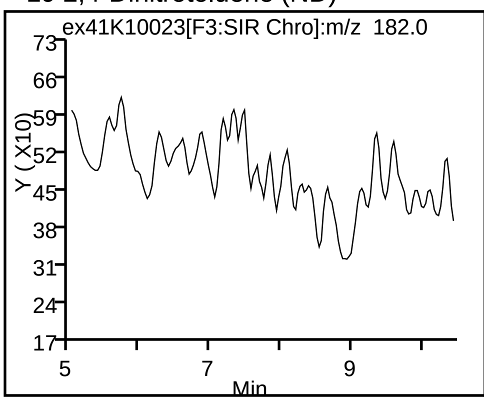
17 2,6-Dinitrotoluene (ND)



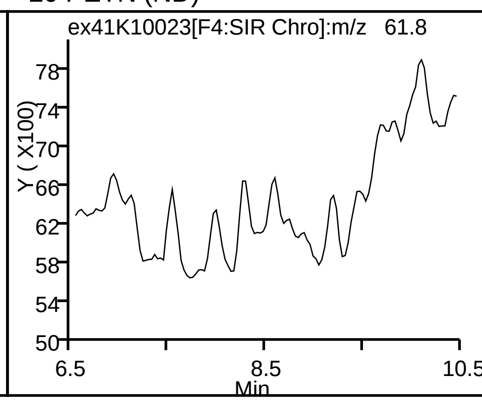
* 18 2,4-dinitrotoluene-d3



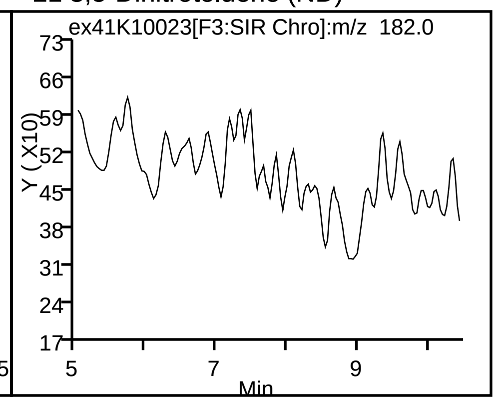
19 2,4-Dinitrotoluene (ND)



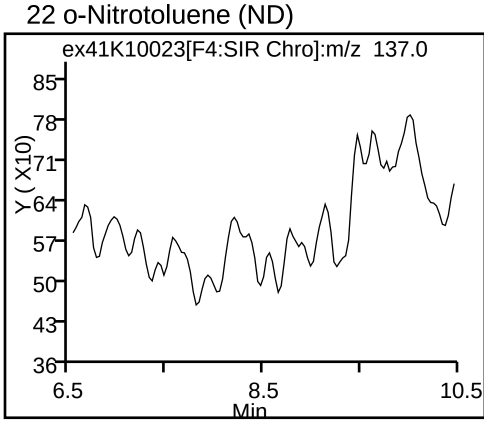
20 PETN (ND)



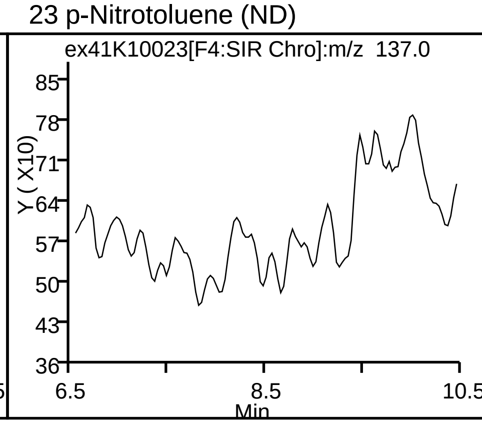
21 3,5-Dinitrotoluene (ND)



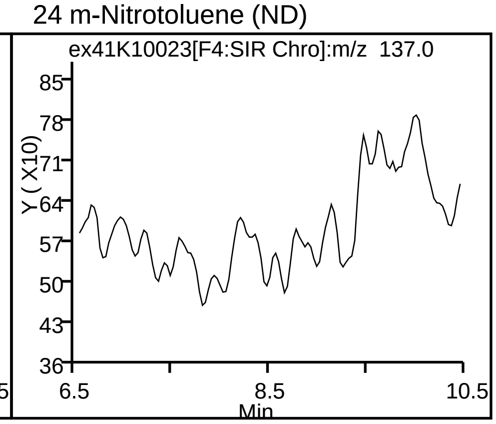
22 o-Nitrotoluene (ND)



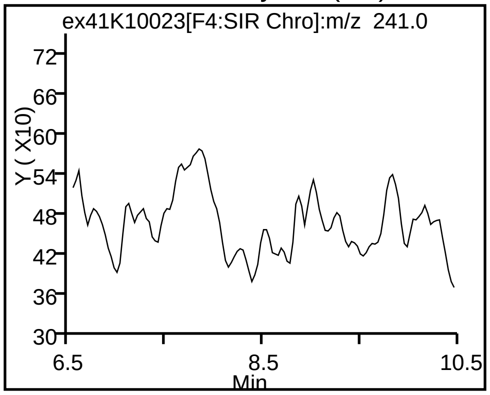
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG No.:

Client Sample ID: TP03 GW012 | Lab Sample ID: 280-22438-8

Matrix: Water | Lab File ID: ex41K10039.d

Analysis Method: 8321B | Date Collected: 11/02/2011 15:33

Extraction Method: 3535 | Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1001.1(mL) | Date Analyzed: 11/10/2011 17:41

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95630 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.10	0.050	0.017
99-65-0	1,3-Dinitrobenzene	0.050	U	0.10	0.050	0.014
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.10	0.050	0.022
121-14-2	2,4-Dinitrotoluene	0.050	U	0.10	0.050	0.019
606-20-2	2,6-Dinitrotoluene	0.050	U	0.10	0.050	0.022
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.10	0.050	0.021
88-72-2	2-Nitrotoluene	0.050	U	0.10	0.050	0.022
99-08-1	3-Nitrotoluene	0.050	U	0.10	0.050	0.025
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.10	0.050	0.019
99-99-0	4-Nitrotoluene	0.050	U	0.10	0.050	0.026
2691-41-0	HMX	0.050	U	0.10	0.050	0.019
98-95-3	Nitrobenzene	0.050	U	0.10	0.050	0.033
55-63-0	Nitroglycerin	0.050	U	0.14	0.050	0.045
78-11-5	PETN	0.050	U	0.10	0.050	0.018
121-82-4	RDX	0.050	U	0.10	0.050	0.021
479-45-8	Tetryl	0.050	U	0.10	0.050	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	74		48-130

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10039.d		
Lims ID:	280-22438-A-8-A	Client ID:	TP03 GW012
Inject. Date:	10-Nov-2011 17:41:32	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-A-8-A 280-0002741-037		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	53
Lims Batch ID:	95630	Lims Sample ID:	37
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:36	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:34:39

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		379269	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		2027064	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		2013260	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.573	5.472	0.101	1.116	645824	73.5			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.170	0.092		4675740	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

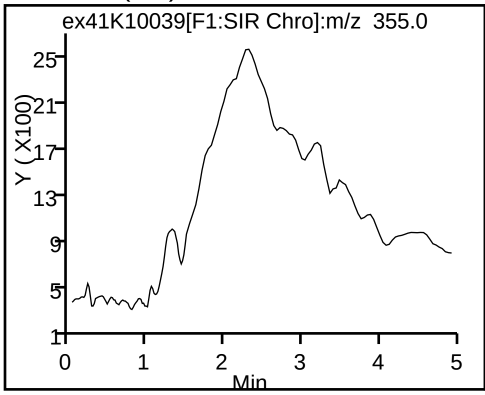
QC Flag Legend

Processing Flags
1 - Missing Peaks

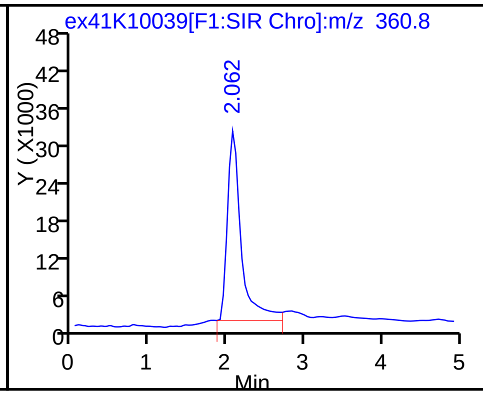
Report Date: 11-Nov-2011 06:40:38 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10039.d

Injection Date:	10-Nov-2011 17:41:32	Limit Group:	LC - 8321A Expl
Client ID:	TP03 GW012	Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	37
Operator ID:		Injection Vol:	40.00 ul

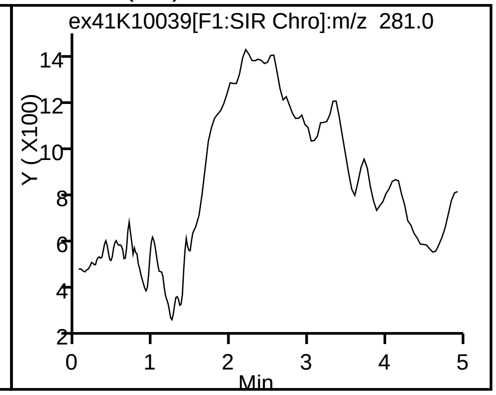
2 HMX (ND)



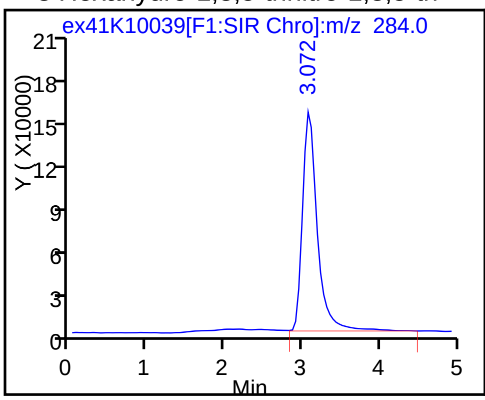
* 1 HMX-13C4



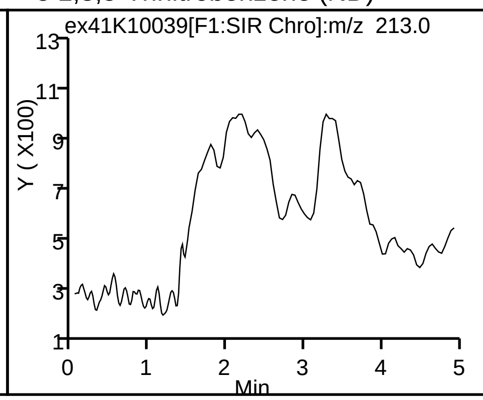
4 RDX (ND)



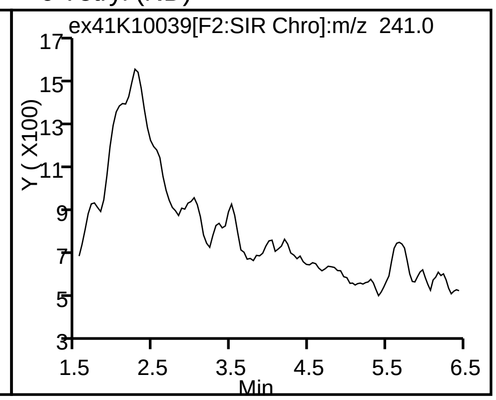
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



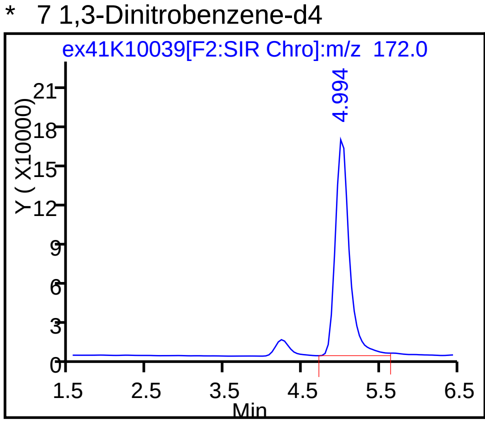
5 1,3,5-Trinitrobenzene (ND)



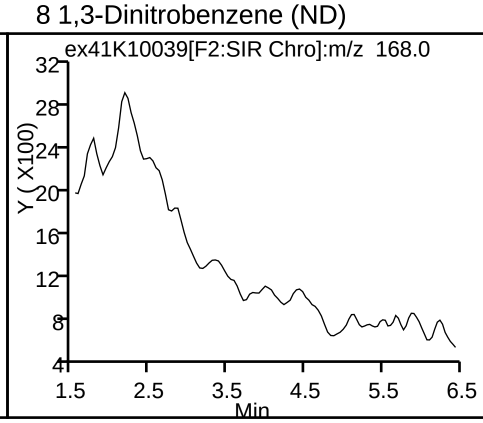
6 Tetryl (ND)



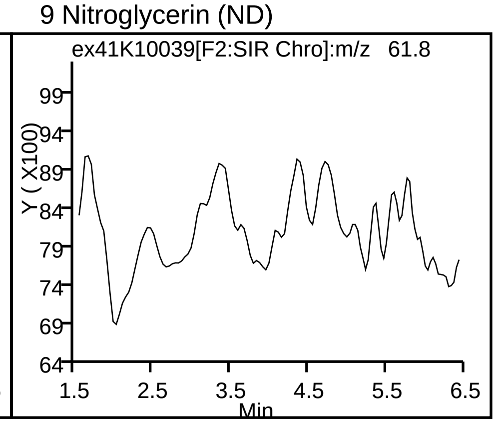
* 7 1,3-Dinitrobenzene-d4



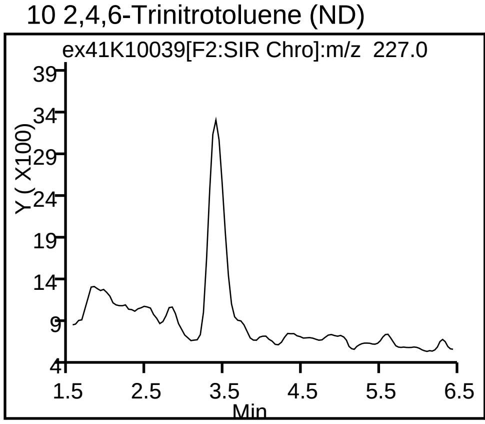
8 1,3-Dinitrobenzene (ND)



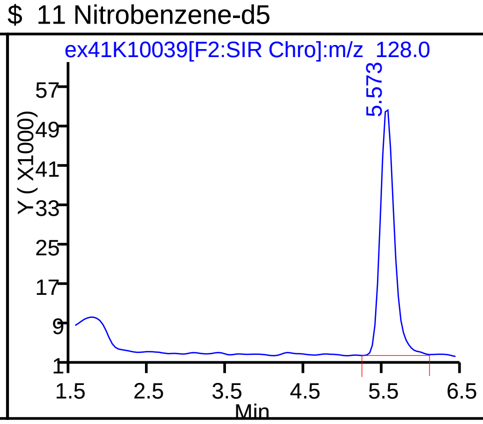
9 Nitroglycerin (ND)



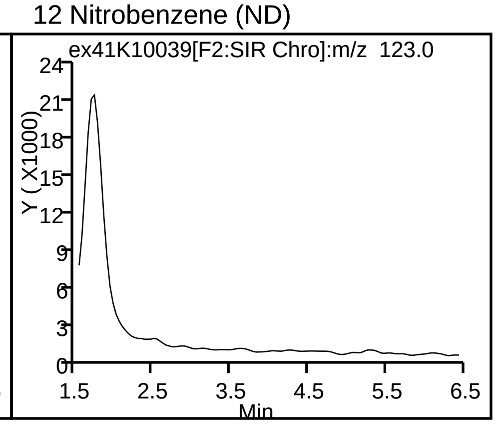
10 2,4,6-Trinitrotoluene (ND)



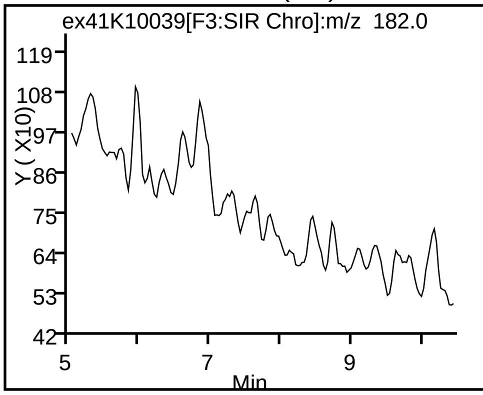
$ 11 Nitrobenzene-d5



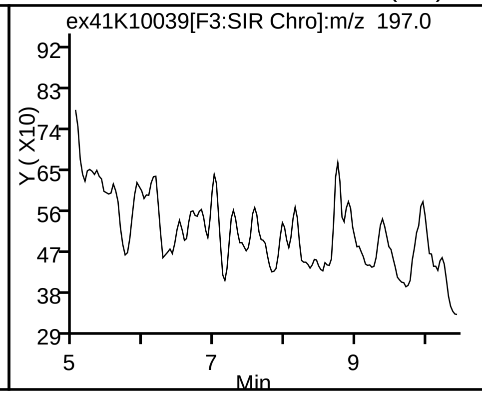
12 Nitrobenzene (ND)



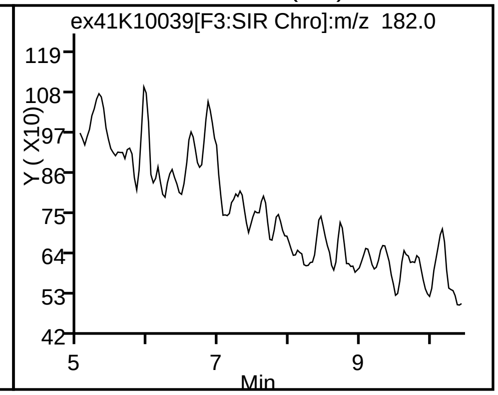
13 3,4-Dinitrotoluene (ND)



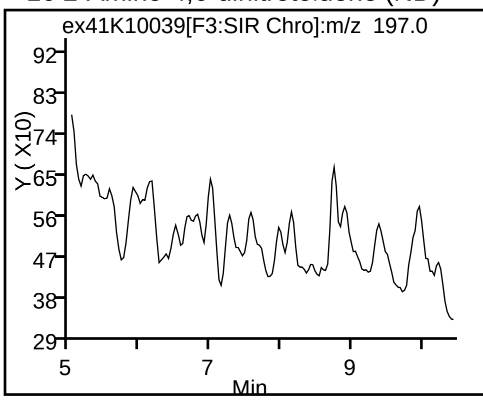
14 4-Amino-2,6-dinitrotoluene (ND)



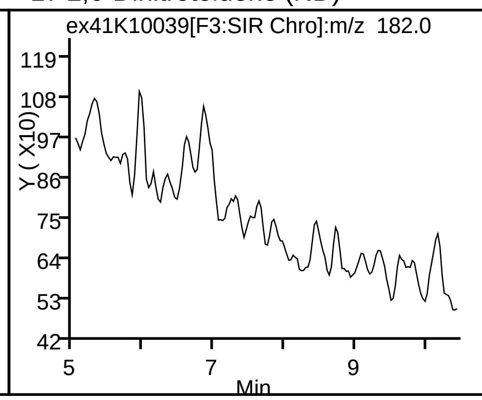
15 2,3-Dinitrotoluene (ND)



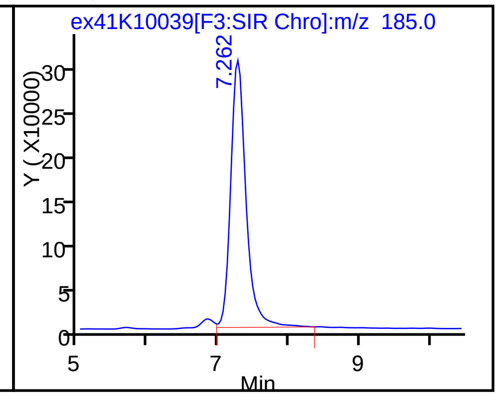
16 2-Amino-4,6-dinitrotoluene (ND)



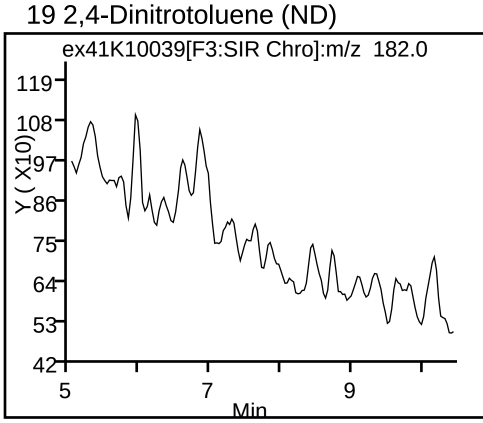
17 2,6-Dinitrotoluene (ND)



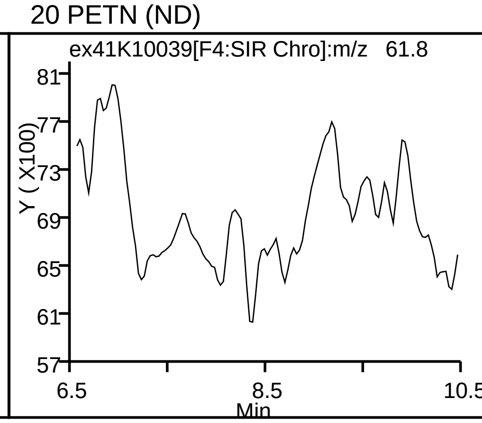
* 18 2,4-dinitrotoluene-d3



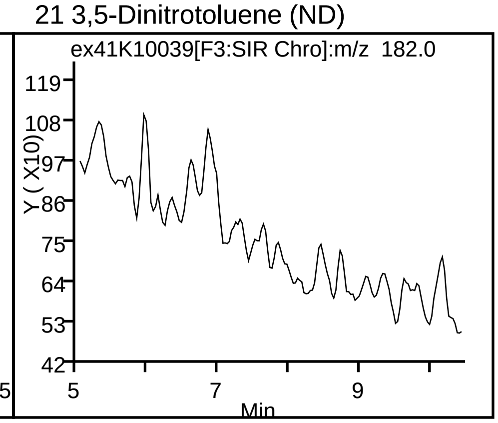
19 2,4-Dinitrotoluene (ND)



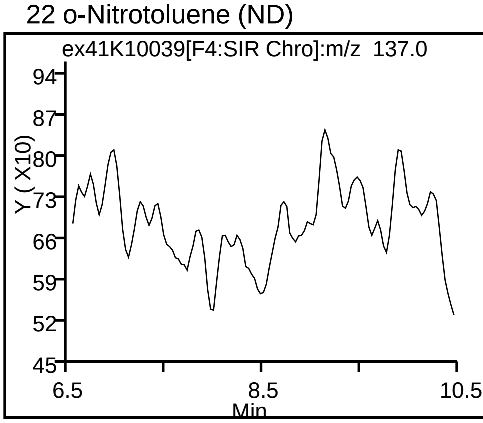
20 PETN (ND)



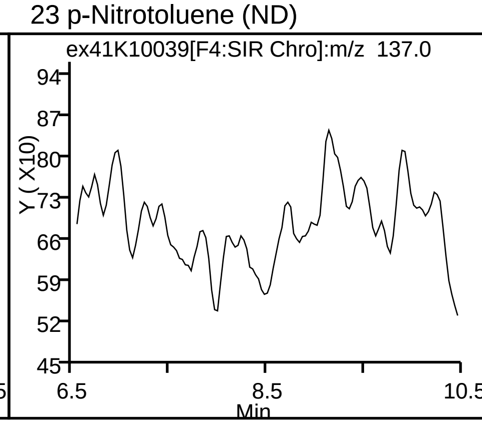
21 3,5-Dinitrotoluene (ND)



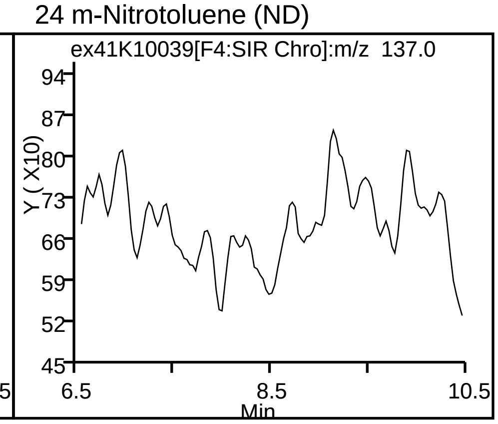
22 o-Nitrotoluene (ND)



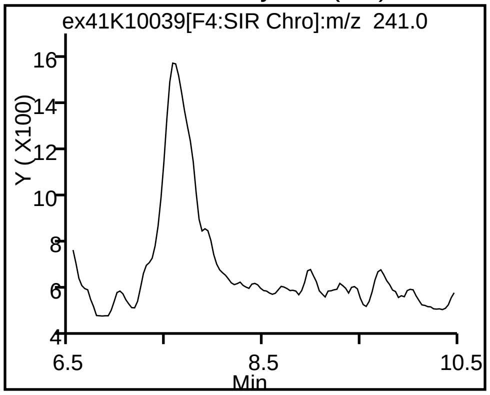
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Client Sample ID: TP23 SB132   Lab Sample ID: 280-22438-9

Matrix: Solid   Lab File ID: ex41K10116.d

Analysis Method: 8321B   Date Collected: 11/02/2011 12:55

Extraction Method: 8330B   Date Extracted: 11/10/2011 15:50

Sample wt/vol: 10.40(g)   Date Analyzed: 11/14/2011 12:53

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 96232   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0050
121-82-4	RDX	0.012	U	0.096	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	94		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10116.d		
Lims ID:	280-22438-A-9-F	Client ID:	TP23 SB132
Inject. Date:	14-Nov-2011 12:53:23	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-A-9-F 280-0002749-069		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	53
Lims Batch ID:	96232	Lims Sample ID:	69
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\8321exp4-25.m		
Last Update:	15-Nov-2011 07:04:50	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	14-Nov-2011 15:07:35

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		833105	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2414681	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1820030	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	740865	93.3			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4918885	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										
4	61.8	7.707	7.677	0.030	1.000	20293	-1.07			
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

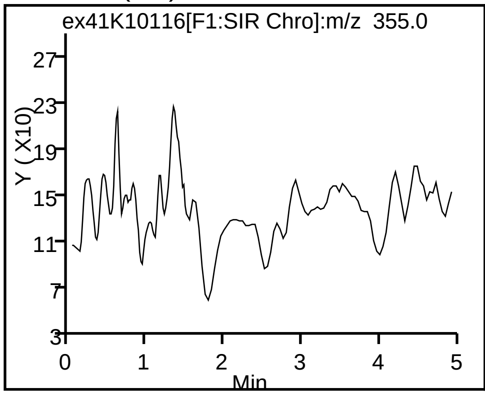
Processing Flags
1 - Missing Peaks

Report Date: 15-Nov-2011 07:04:52 Chrom Revision: 1.2 13-Jul-2011 10:43:06

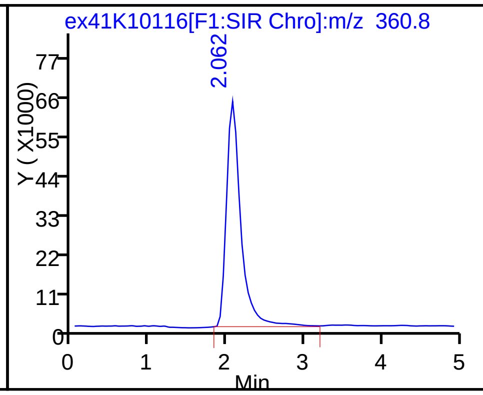
Data File: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10116.d

Injection Date:	14-Nov-2011 12:53:23	Limit Group:	LC - 8321A Expl
Client ID:	TP23 SB132	Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	69
Operator ID:		Injection Vol:	40.00 ul

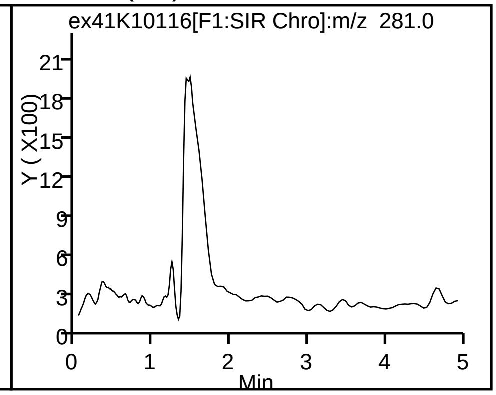
2 HMX (ND)



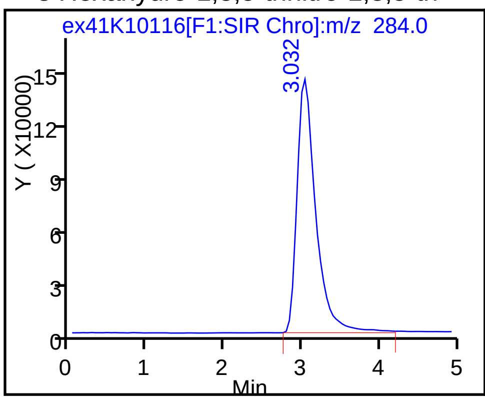
* 1 HMX-13C4



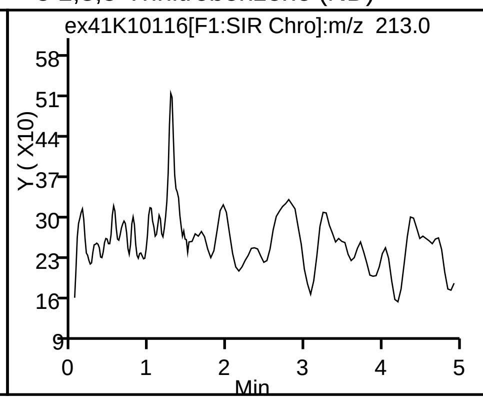
4 RDX (ND)



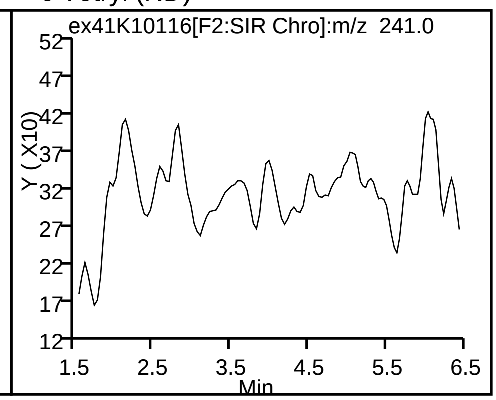
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



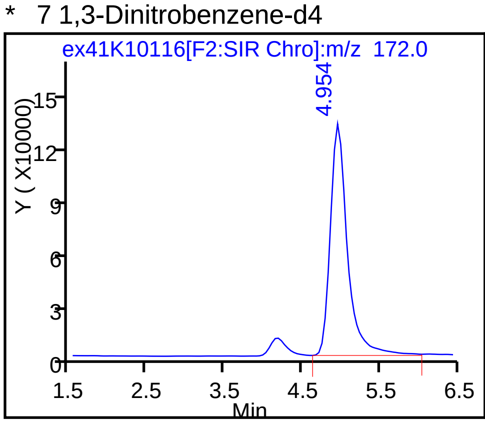
5 1,3,5-Trinitrobenzene (ND)



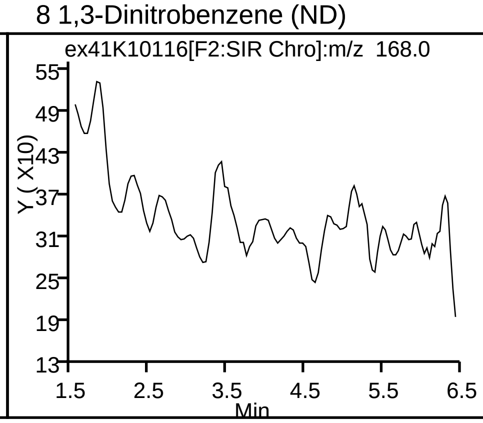
6 Tetryl (ND)



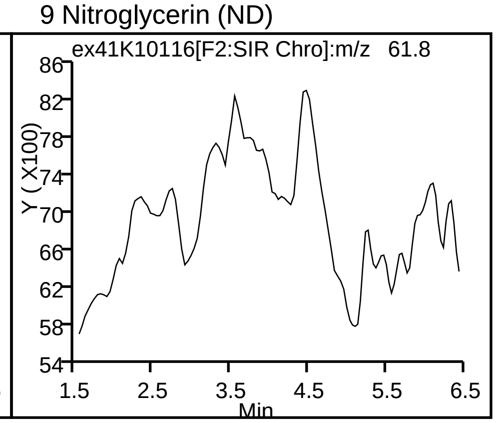
* 7 1,3-Dinitrobenzene-d4



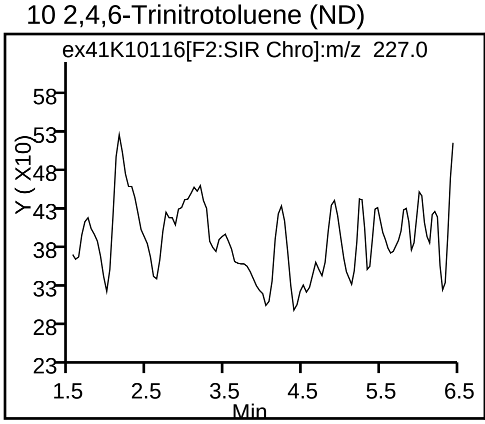
8 1,3-Dinitrobenzene (ND)



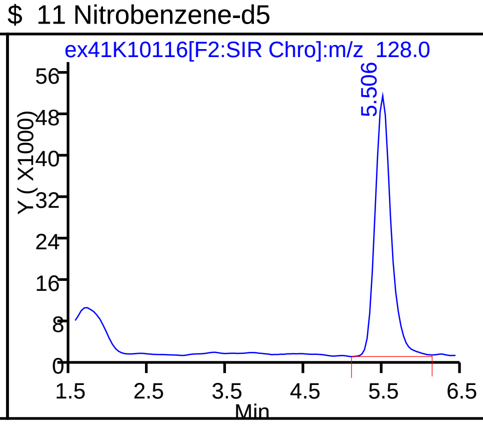
9 Nitroglycerin (ND)



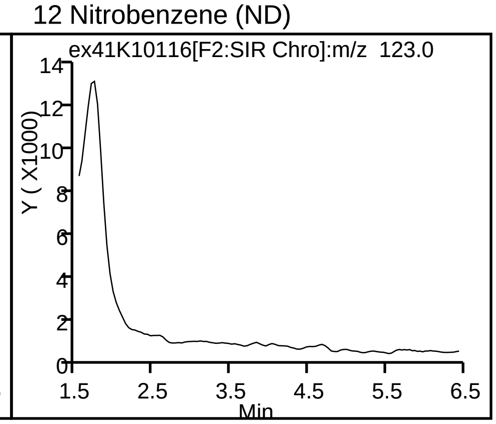
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

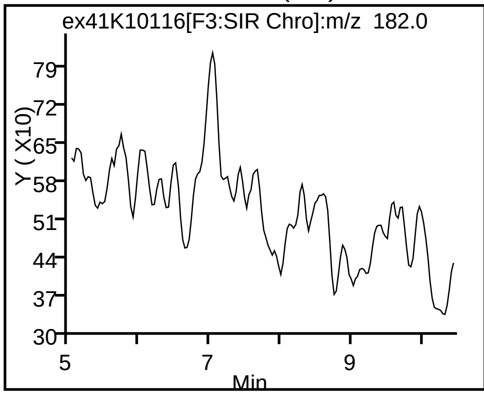


12 Nitrobenzene (ND)

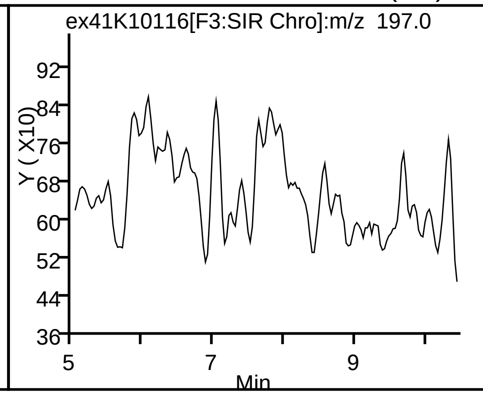


Report Date: 15-Nov-2011 07:04:52 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10116.d

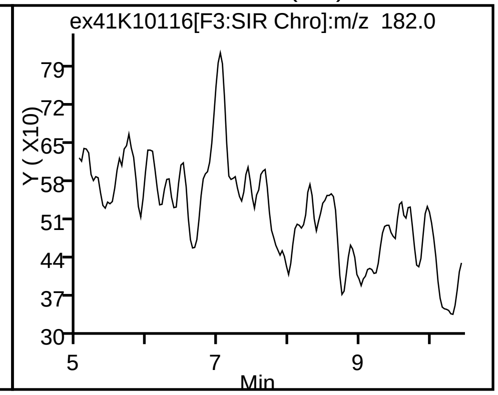
13 3,4-Dinitrotoluene (ND)



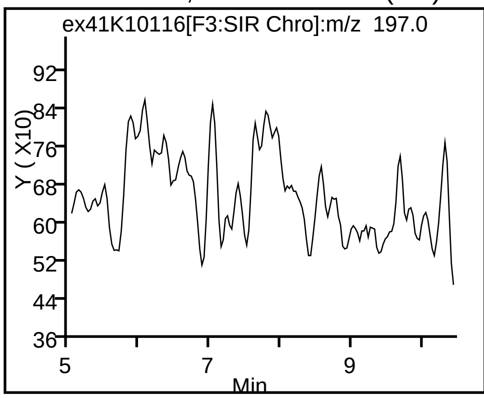
14 4-Amino-2,6-dinitrotoluene (ND)



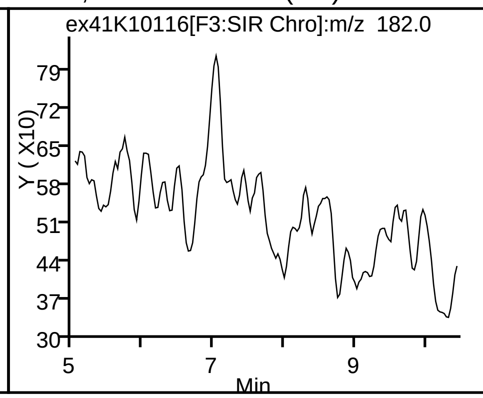
15 2,3-Dinitrotoluene (ND)



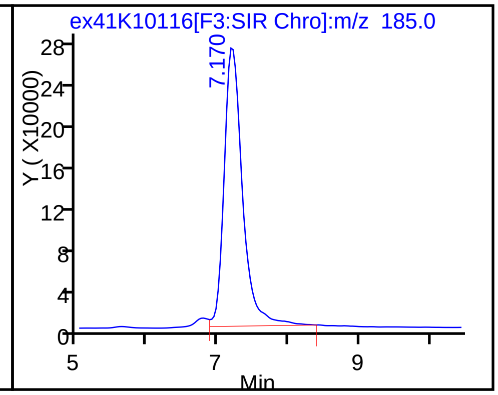
16 2-Amino-4,6-dinitrotoluene (ND)



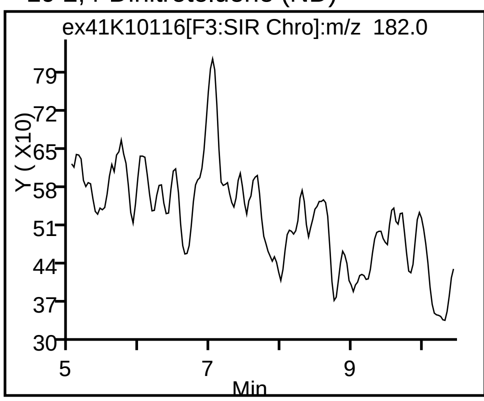
17 2,6-Dinitrotoluene (ND)



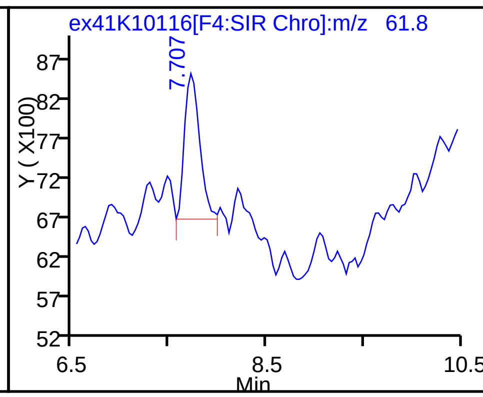
* 18 2,4-dinitrotoluene-d3



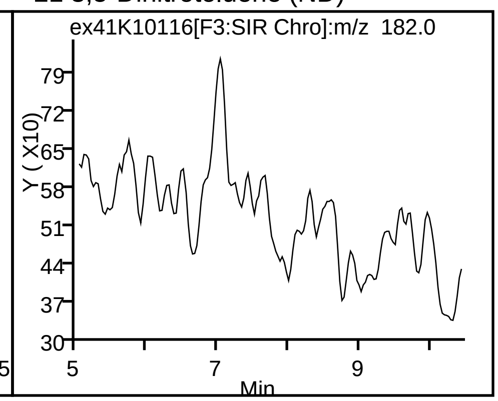
19 2,4-Dinitrotoluene (ND)



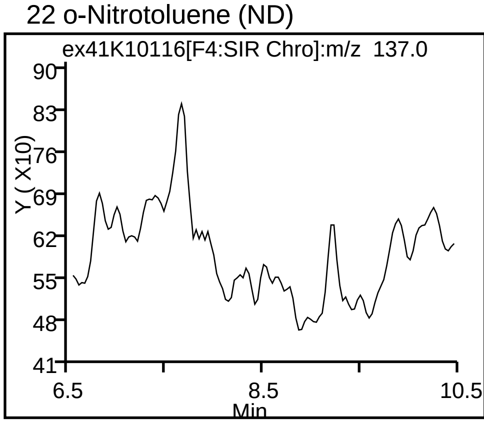
20 PETN



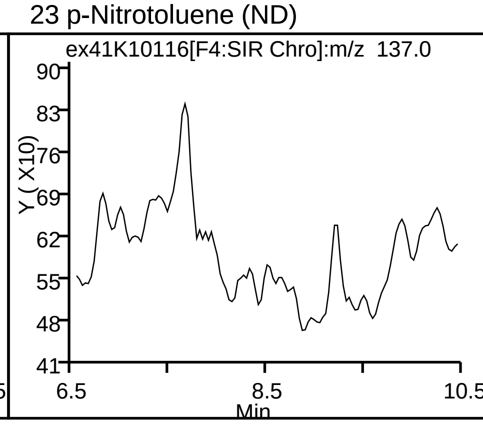
21 3,5-Dinitrotoluene (ND)



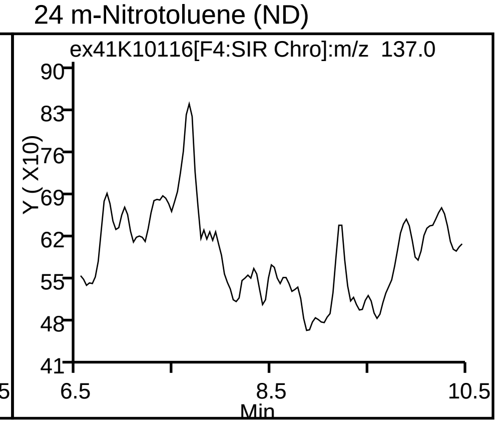
22 o-Nitrotoluene (ND)



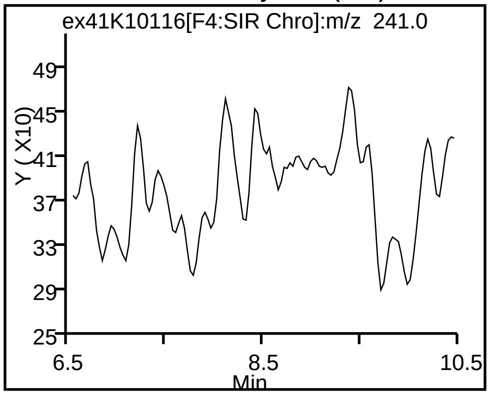
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG No.:

Client Sample ID: TP24 SB133 | Lab Sample ID: 280-22438-10

Matrix: Solid | Lab File ID: ex41K10119.d

Analysis Method: 8321B | Date Collected: 11/02/2011 13:05

Extraction Method: 8330B | Date Extracted: 11/10/2011 15:50

Sample wt/vol: 10.39(g) | Date Analyzed: 11/14/2011 13:29

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96232 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0050
121-82-4	RDX	0.012	U	0.096	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	100		68-140

FORM I 8321B

Report Date: 15-Nov-2011 07:04:55 Chrom Revision: 1.2 13-Jul-2011 10:43:06

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10119.d		
Lims ID:	280-22438-B-10-C	Client ID:	TP24 SB133
Inject. Date:	14-Nov-2011 13:29:54	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-B-10-C 280-0002749-072		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	56
Lims Batch ID:	96232	Lims Sample ID:	72
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\8321exp4-25.m		
Last Update:	15-Nov-2011 07:04:50	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 14-Nov-2011 15:08:28

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		964179	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3266185	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1765140	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	759208	98.5			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

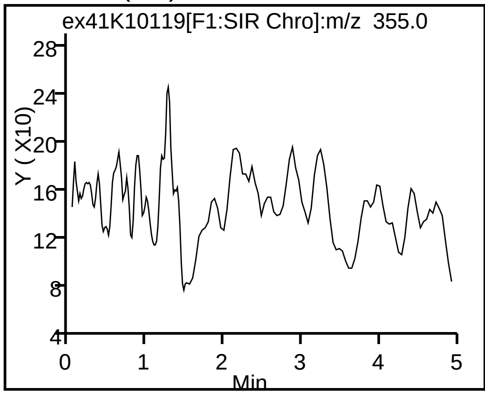
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.140	0.061		5355259	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

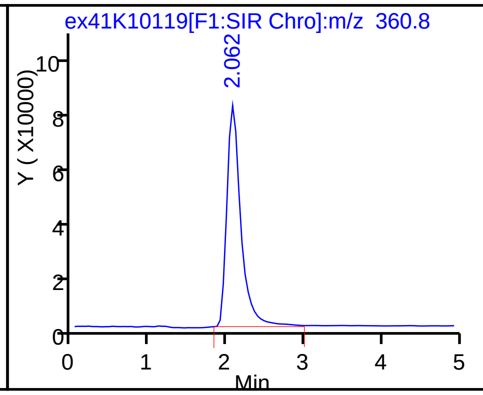
Processing Flags
1 - Missing Peaks

Report Date:	15-Nov-2011 07:04:55	Chrom Revision:	1.2 13-Jul-2011 10:43:06
Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10119.d		
Injection Date:	14-Nov-2011 13:29:54	Limit Group:	LC - 8321A Expl
Client ID:	TP24 SB133	Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	72
Operator ID:		Injection Vol:	40.00 ul

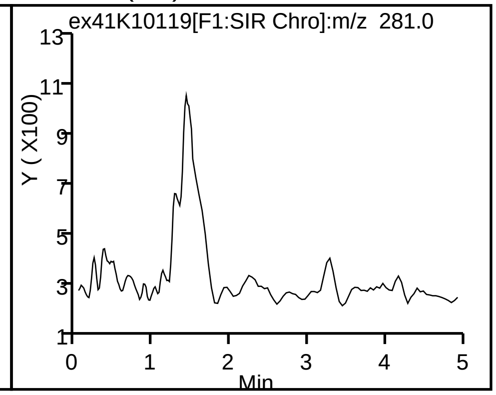
2 HMX (ND)



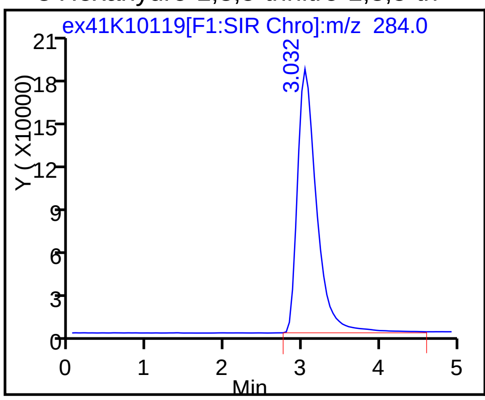
* 1 HMX-13C4



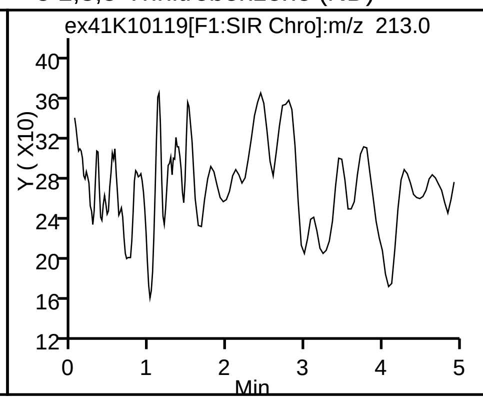
4 RDX (ND)



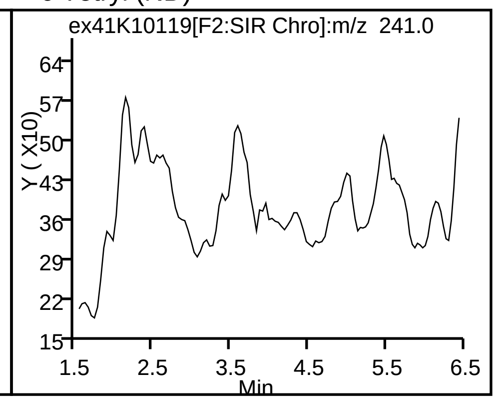
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



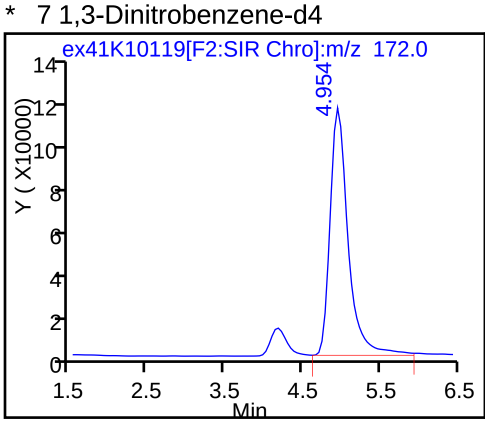
5 1,3,5-Trinitrobenzene (ND)



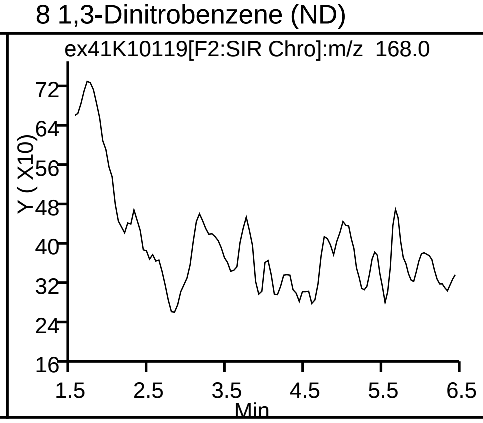
6 Tetryl (ND)



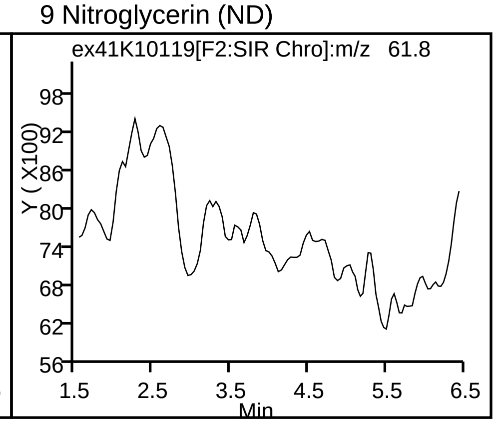
* 7 1,3-Dinitrobenzene-d4



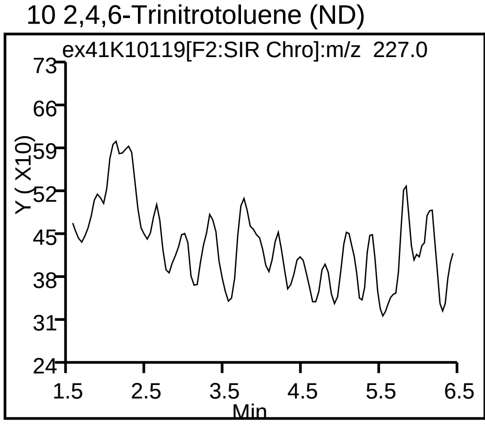
8 1,3-Dinitrobenzene (ND)



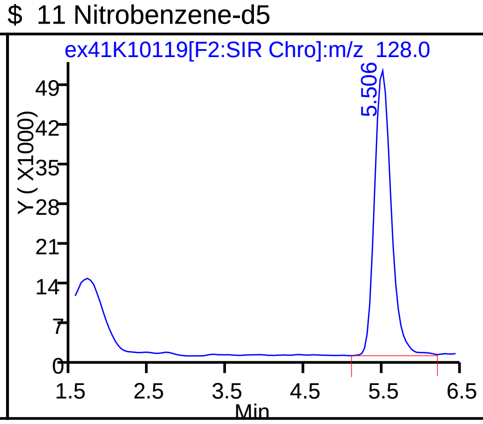
9 Nitroglycerin (ND)



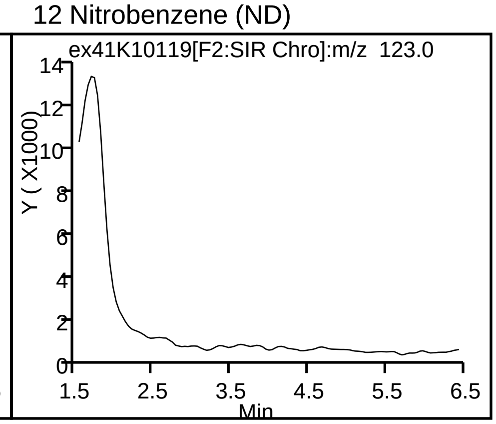
10 2,4,6-Trinitrotoluene (ND)



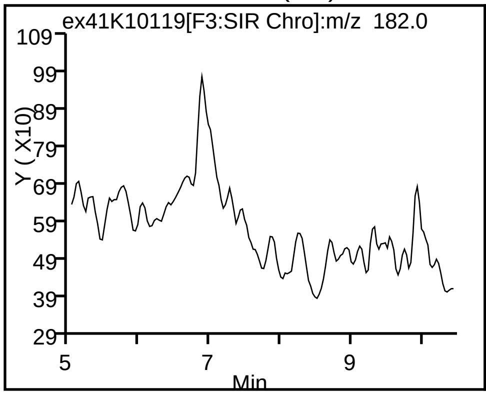
$ 11 Nitrobenzene-d5



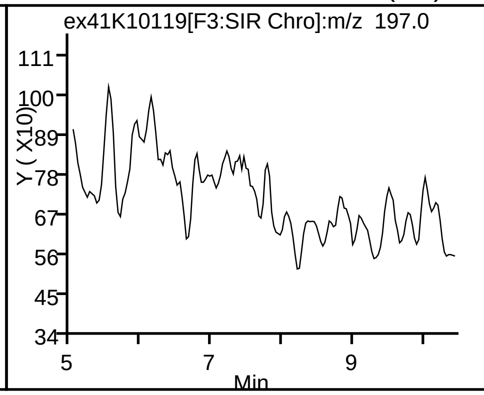
12 Nitrobenzene (ND)



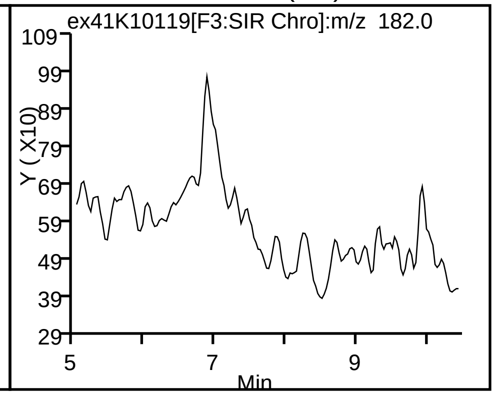
13 3,4-Dinitrotoluene (ND)



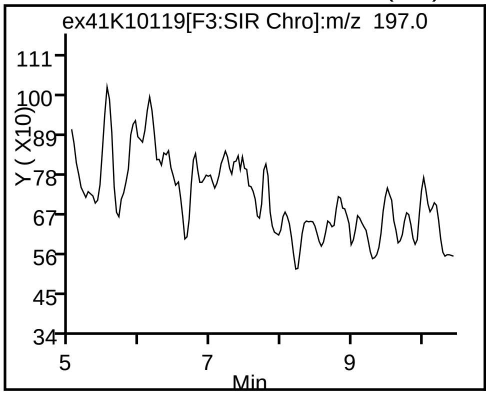
14 4-Amino-2,6-dinitrotoluene (ND)



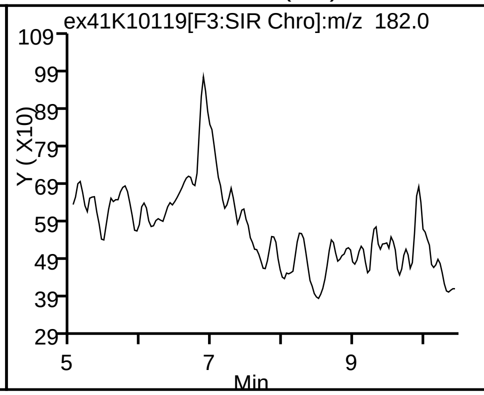
15 2,3-Dinitrotoluene (ND)



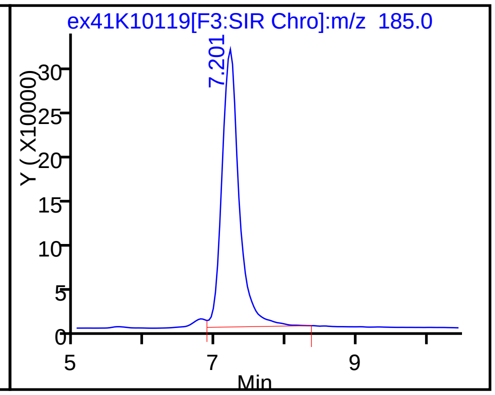
16 2-Amino-4,6-dinitrotoluene (ND)



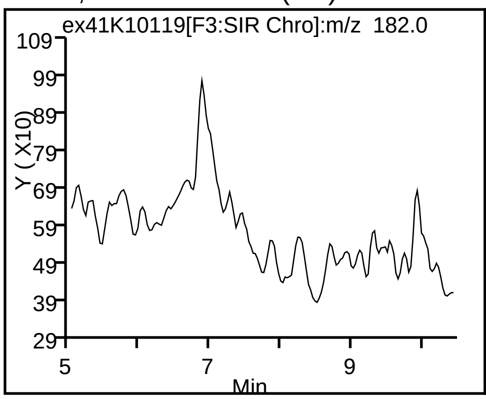
17 2,6-Dinitrotoluene (ND)



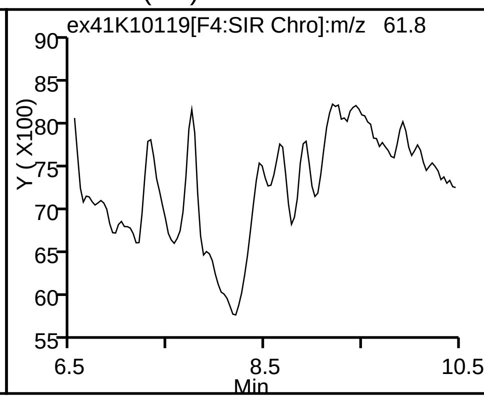
* 18 2,4-dinitrotoluene-d3



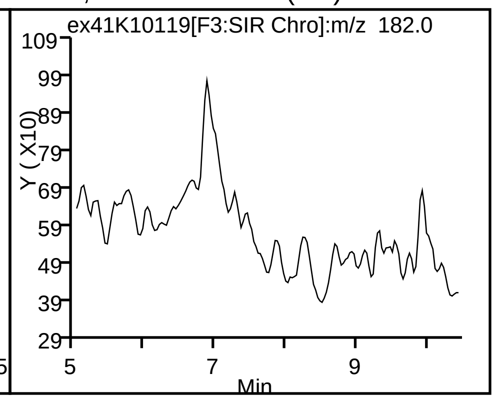
19 2,4-Dinitrotoluene (ND)



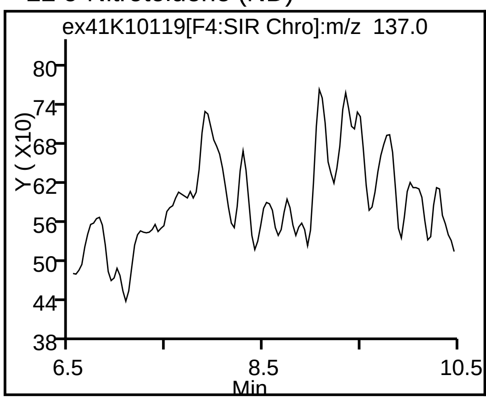
20 PETN (ND)



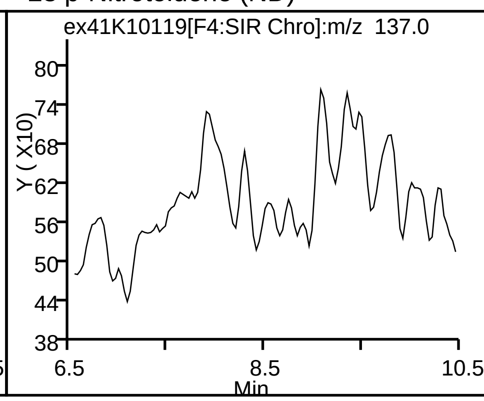
21 3,5-Dinitrotoluene (ND)



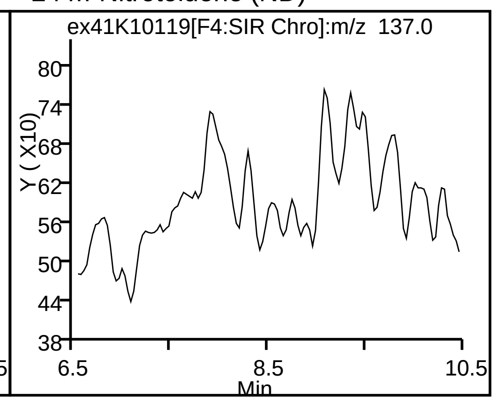
22 o-Nitrotoluene (ND)



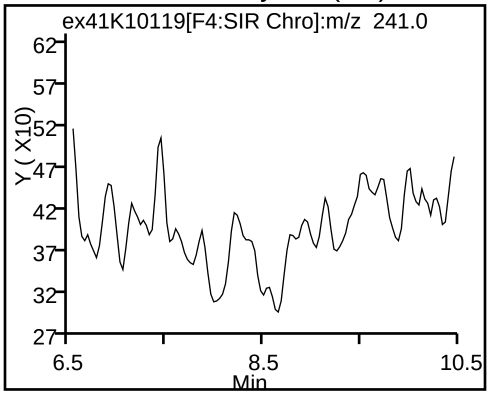
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Client Sample ID: CP29 GW002   Lab Sample ID: 280-22438-12

Matrix: Water   Lab File ID: ex41K10041.d

Analysis Method: 8321B   Date Collected: 11/01/2011 13:05

Extraction Method: 3535   Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1016.6(mL)   Date Analyzed: 11/10/2011 18:05

Con. Extract Vol.: 5(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95630   Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.049	U	0.098	0.049	0.017
99-65-0	1,3-Dinitrobenzene	0.049	U	0.098	0.049	0.014
118-96-7	2,4,6-Trinitrotoluene	0.049	U	0.098	0.049	0.022
121-14-2	2,4-Dinitrotoluene	0.049	U	0.098	0.049	0.019
606-20-2	2,6-Dinitrotoluene	0.049	U	0.098	0.049	0.022
35572-78-2	2-Amino-4,6-dinitrotoluene	0.049	U	0.098	0.049	0.021
88-72-2	2-Nitrotoluene	0.049	U	0.098	0.049	0.022
99-08-1	3-Nitrotoluene	0.049	U	0.098	0.049	0.025
19406-51-0	4-Amino-2,6-dinitrotoluene	0.049	U	0.098	0.049	0.019
99-99-0	4-Nitrotoluene	0.049	U	0.098	0.049	0.026
98-95-3	Nitrobenzene	0.049	U	0.098	0.049	0.032
55-63-0	Nitroglycerin	0.049	U	0.14	0.049	0.044
78-11-5	PETN	0.049	U	0.098	0.049	0.018
121-82-4	RDX	0.049	U	0.098	0.049	0.021
479-45-8	Tetryl	0.049	U	0.098	0.049	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	71		48-130

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10041.d		
Lims ID:	280-22438-B-12-B	Client ID:	CP29 GW002
Inject. Date:	10-Nov-2011 18:05:42	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-B-12-B 280-0002741-039		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	55
Lims Batch ID:	95630	Lims Sample ID:	39
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:36	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:35:28

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										s
1	360.8	2.062	2.062	0.000		242816	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		1987391	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1920262	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.472	0.068	1.109	588912	70.3			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.170	0.061		5116119	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										
4	241.0		10.258							

QC Flag Legend

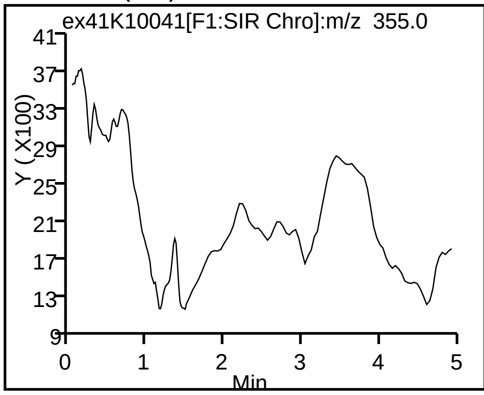
Processing Flags
1 - Missing Peaks
s - Failed ISTD Recovery Test

Report Date: 11-Nov-2011 06:40:39 Chrom Revision: 1.2 13-Jul-2011 10:43:06

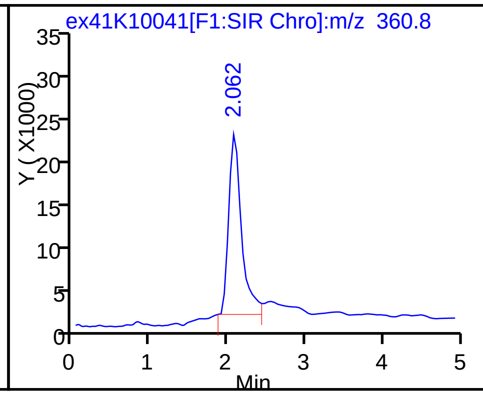
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10041.d

Injection Date:	10-Nov-2011 18:05:42	Limit Group:	LC - 8321A Expl
Client ID:	CP29 GW002	Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	39
Operator ID:		Injection Vol:	40.00 ul

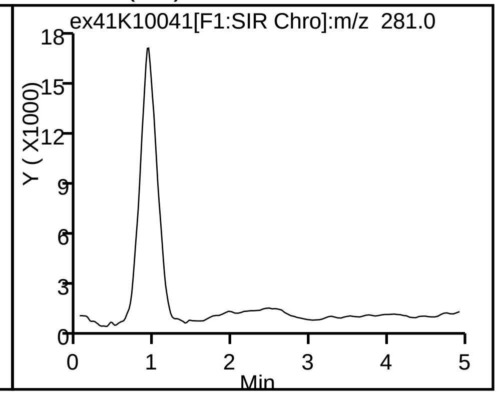
2 HMX (ND)



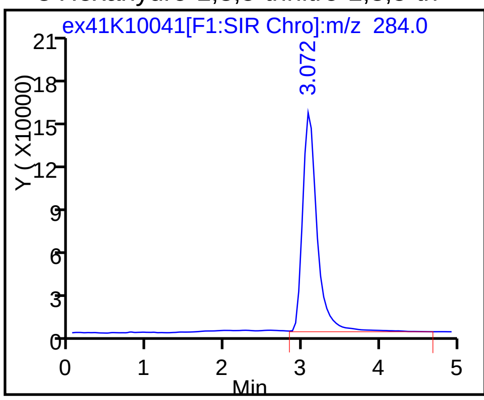
* 1 HMX-13C4



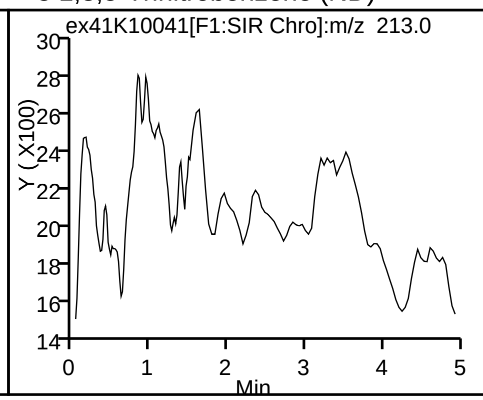
4 RDX (ND)



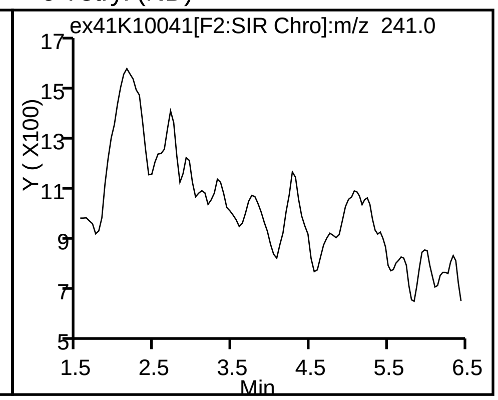
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



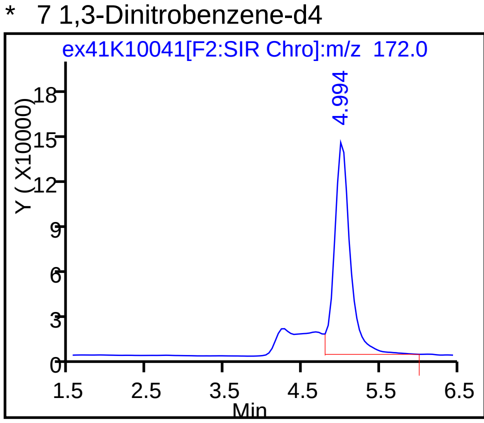
5 1,3,5-Trinitrobenzene (ND)



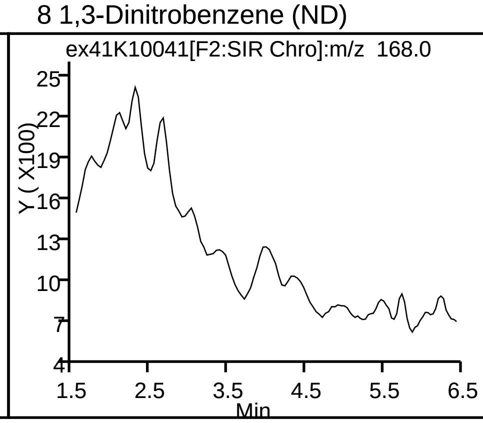
6 Tetryl (ND)



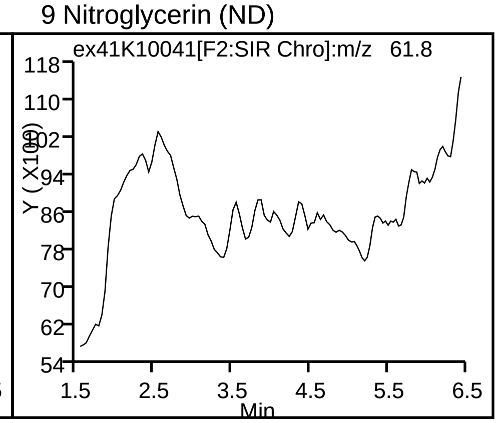
* 7 1,3-Dinitrobenzene-d4



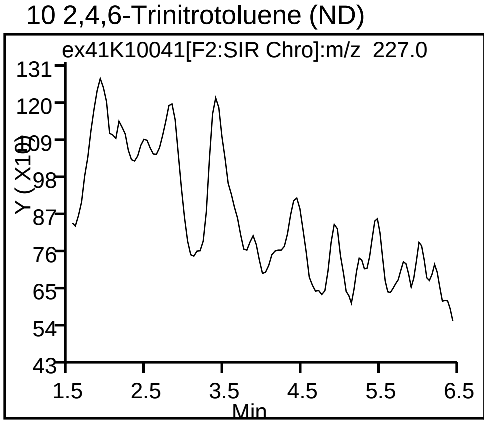
8 1,3-Dinitrobenzene (ND)



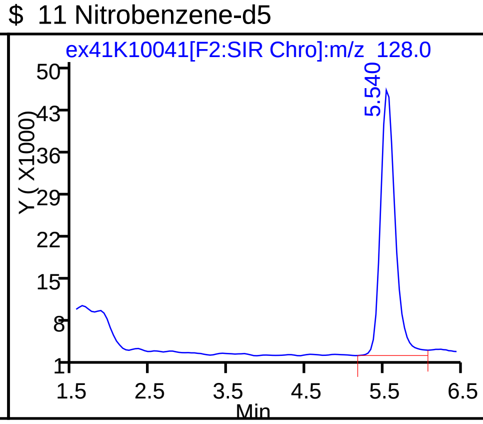
9 Nitroglycerin (ND)



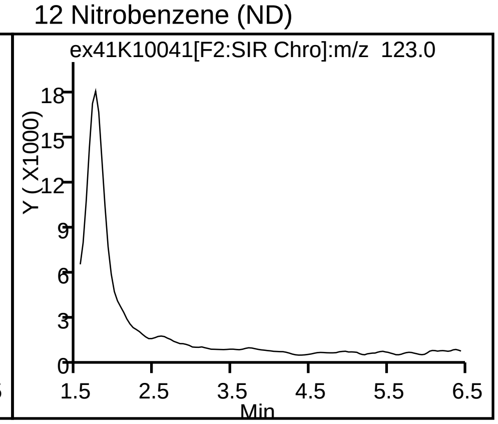
10 2,4,6-Trinitrotoluene (ND)



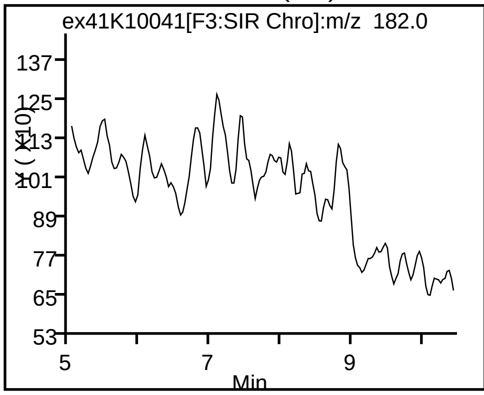
$ 11 Nitrobenzene-d5



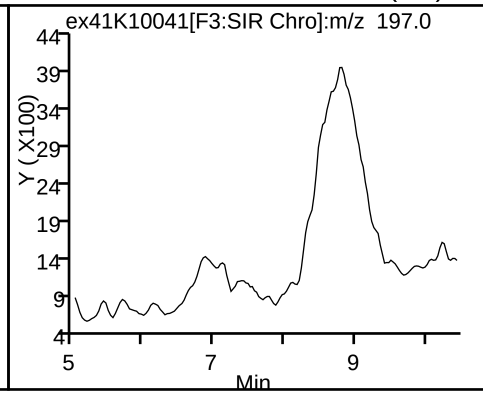
12 Nitrobenzene (ND)



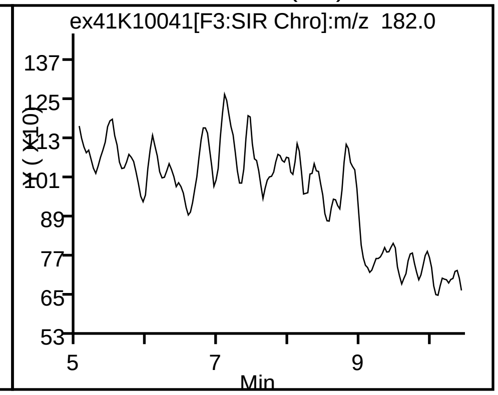
13 3,4-Dinitrotoluene (ND)



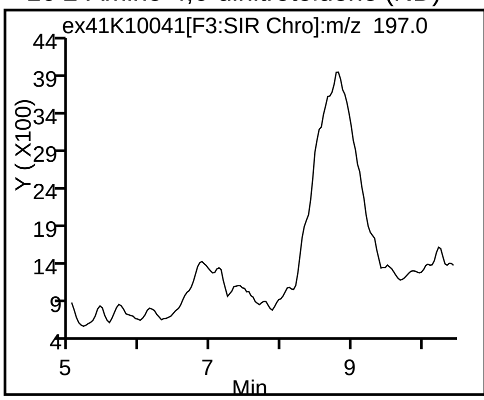
14 4-Amino-2,6-dinitrotoluene (ND)



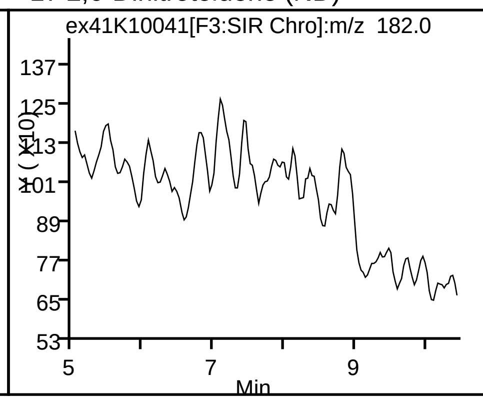
15 2,3-Dinitrotoluene (ND)



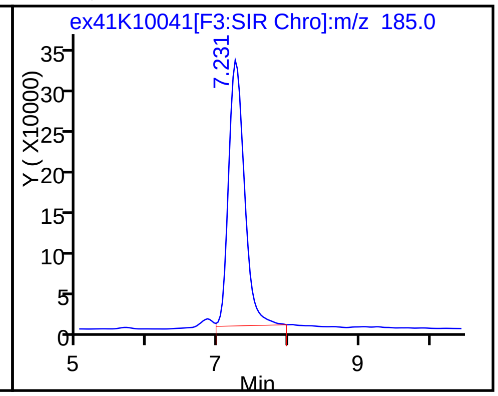
16 2-Amino-4,6-dinitrotoluene (ND)



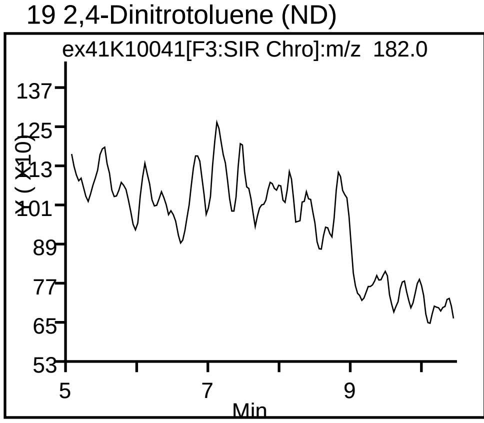
17 2,6-Dinitrotoluene (ND)



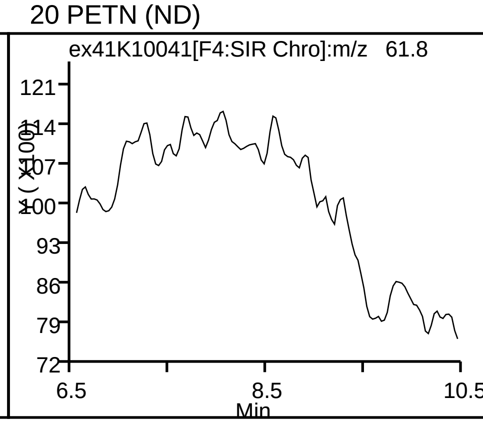
* 18 2,4-dinitrotoluene-d3



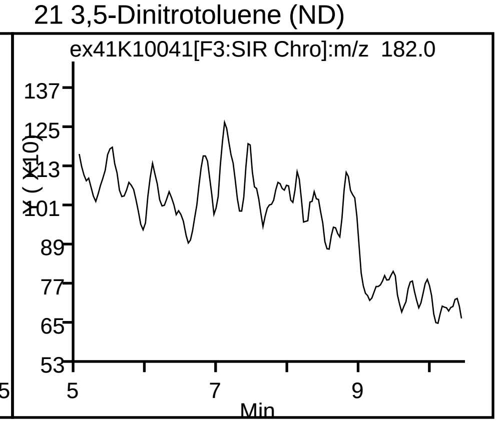
19 2,4-Dinitrotoluene (ND)



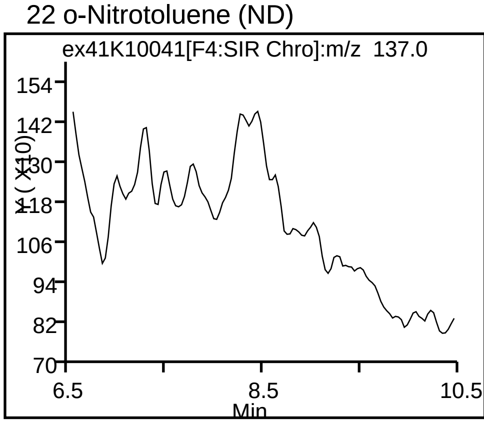
20 PETN (ND)



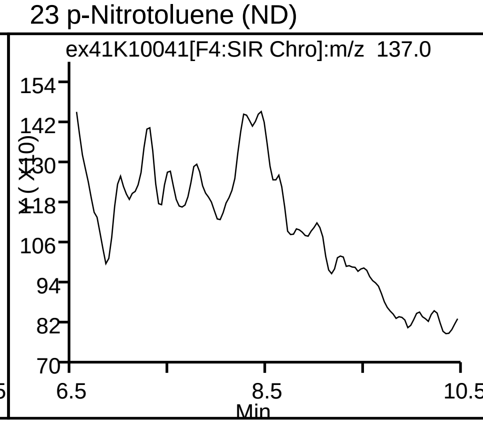
21 3,5-Dinitrotoluene (ND)



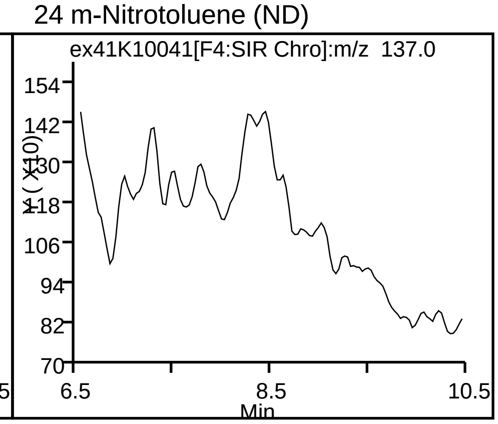
22 o-Nitrotoluene (ND)



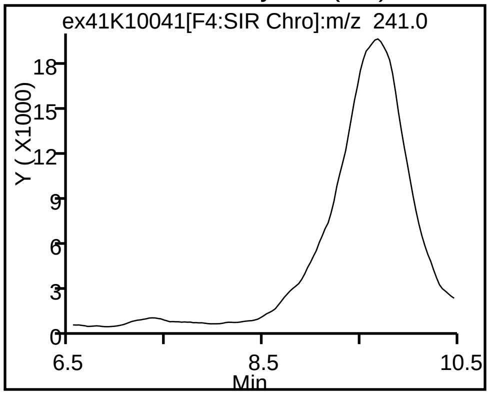
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Client Sample ID: CP29 GW002 DL   Lab Sample ID: 280-22438-12 DL

Matrix: Water   Lab File ID: ex41K10026.d

Analysis Method: 8321B   Date Collected: 11/01/2011 13:05

Extraction Method: 3535   Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1016.6(mL)   Date Analyzed: 11/10/2011 15:03

Con. Extract Vol.: 5(mL)   Dilution Factor: 5

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629   Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
2691-41-0	HMX	0.25	U	0.49	0.25	0.093

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	96	D	48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10026.d		
Lims ID:	280-22438-B-12-B	Client ID:	CP29 GW002
Inject. Date:	10-Nov-2011 15:03:07	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	280-22438-B-12-B 5x 280-0002741-024		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	68
Lims Batch ID:	95629	Lims Sample ID:	24
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:25	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:32:00

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		704029	250.0			
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2262687	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1616974	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	133492	18.9			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		4087958	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

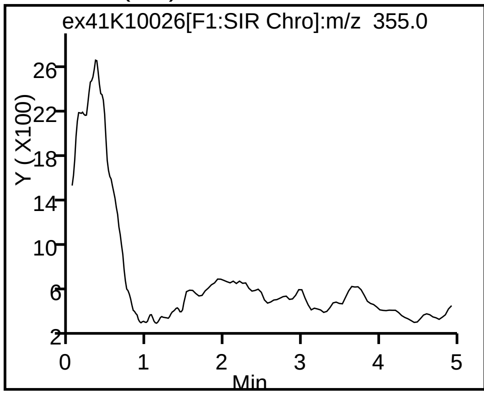
QC Flag Legend

Processing Flags
1 - Missing Peaks

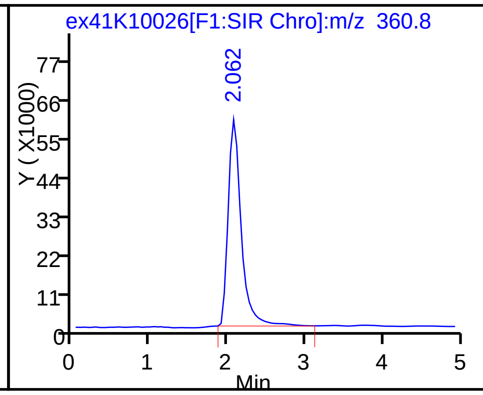
Report Date: 11-Nov-2011 06:40:29 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10026.d

Injection Date:	10-Nov-2011 15:03:07	Limit Group:	LC - 8321A Expl
Client ID:	CP29 GW002	Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	24
Operator ID:		Injection Vol:	40.00 ul

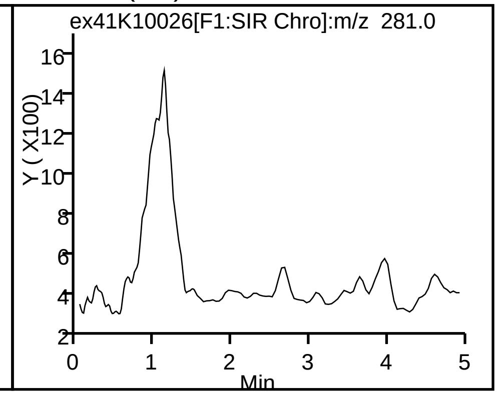
2 HMX (ND)



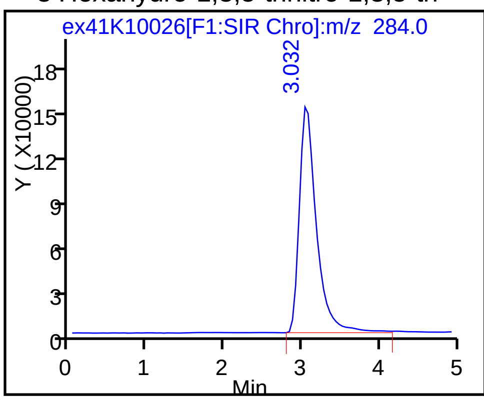
* 1 HMX-13C4



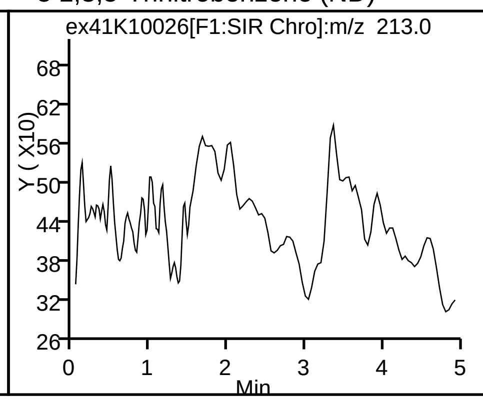
4 RDX (ND)



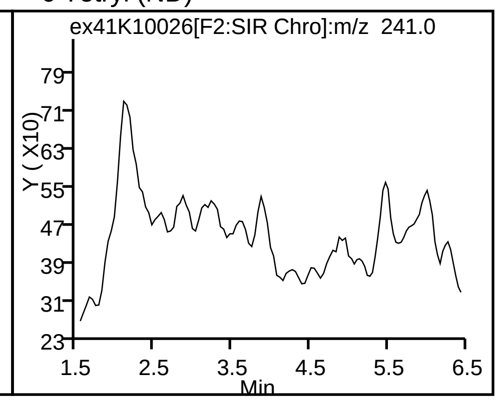
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



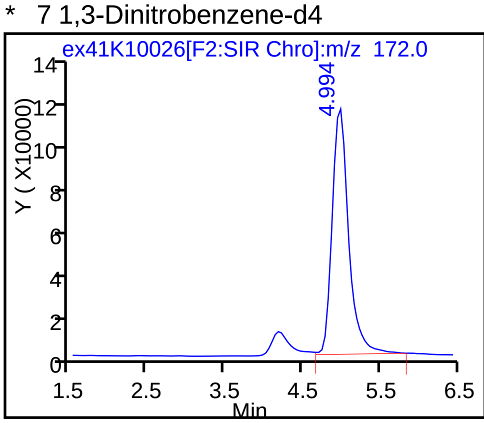
5 1,3,5-Trinitrobenzene (ND)



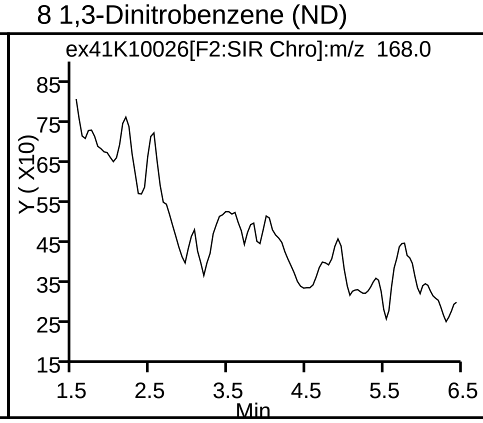
6 Tetryl (ND)



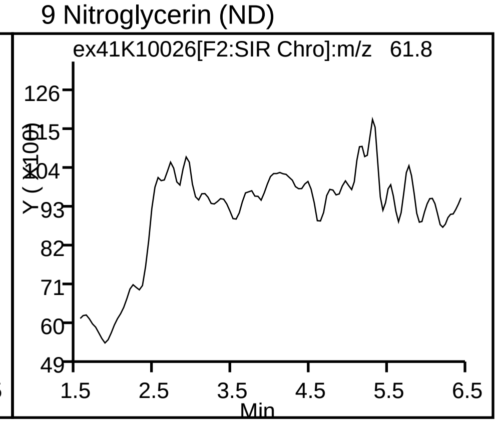
* 7 1,3-Dinitrobenzene-d4



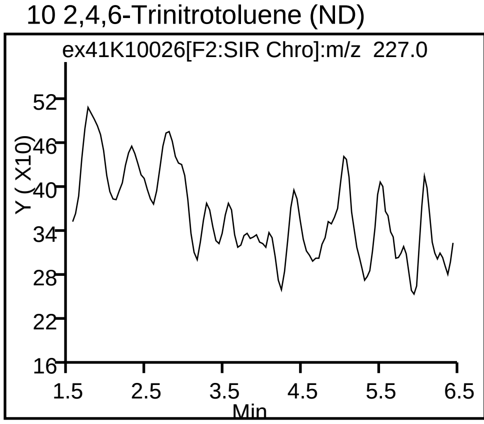
8 1,3-Dinitrobenzene (ND)



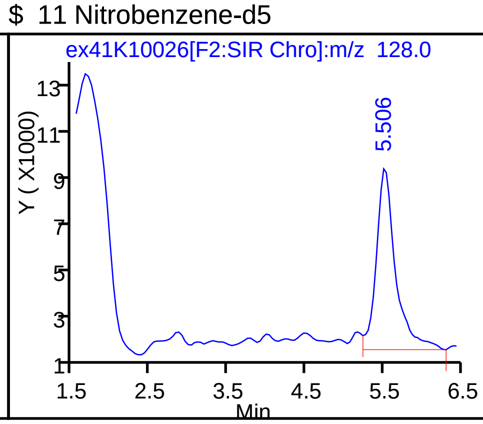
9 Nitroglycerin (ND)



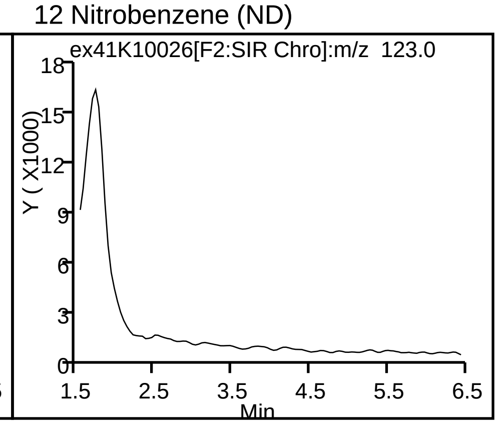
10 2,4,6-Trinitrotoluene (ND)



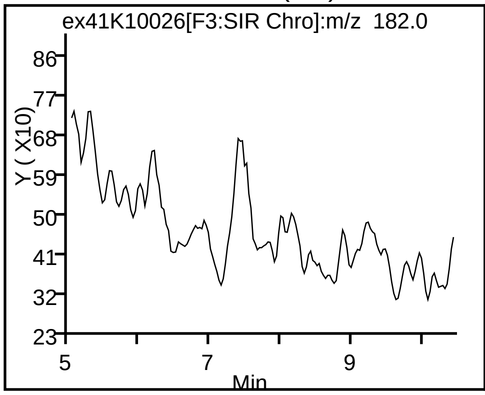
$ 11 Nitrobenzene-d5



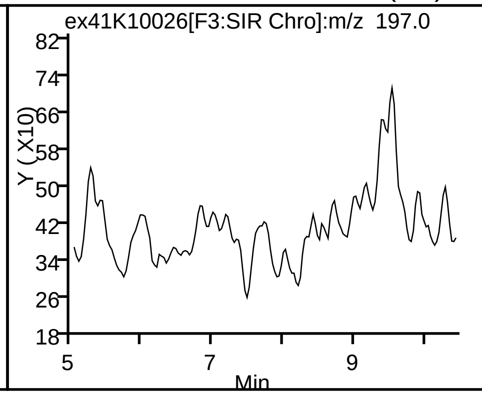
12 Nitrobenzene (ND)



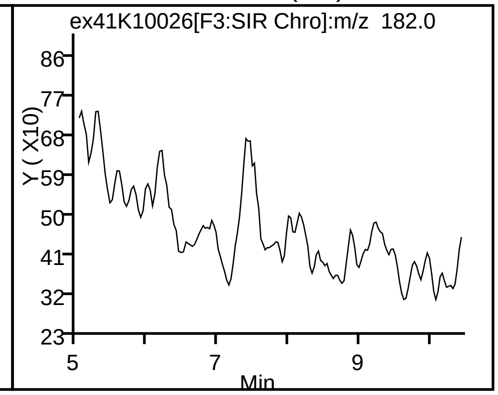
13 3,4-Dinitrotoluene (ND)



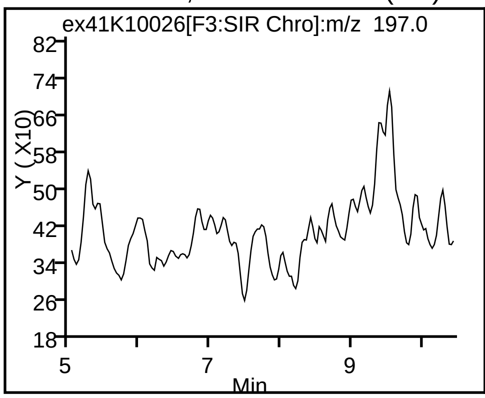
14 4-Amino-2,6-dinitrotoluene (ND)



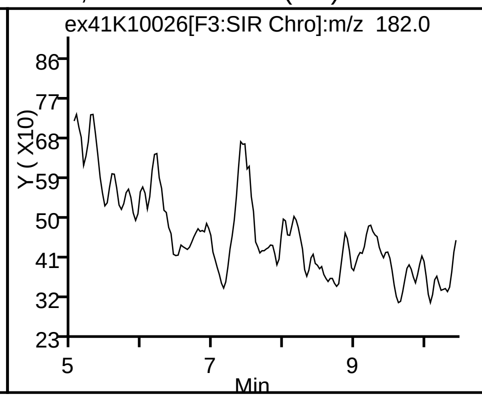
15 2,3-Dinitrotoluene (ND)



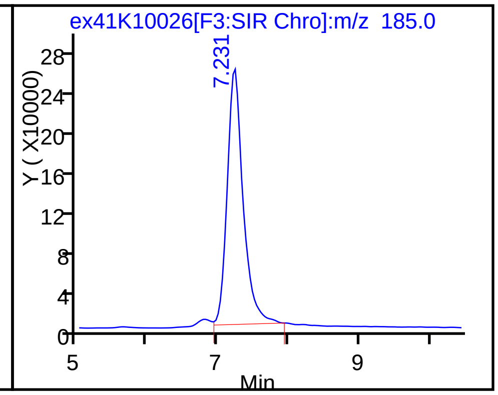
16 2-Amino-4,6-dinitrotoluene (ND)



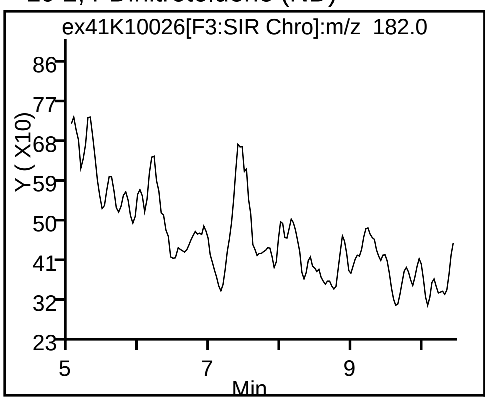
17 2,6-Dinitrotoluene (ND)



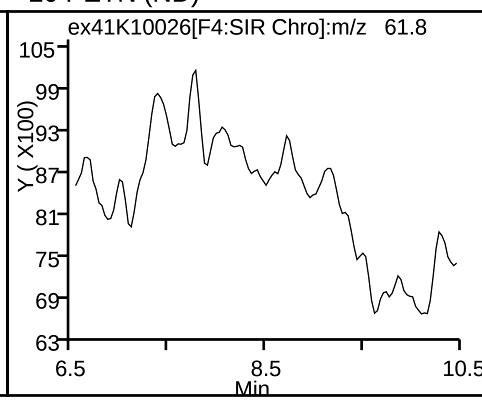
* 18 2,4-dinitrotoluene-d3



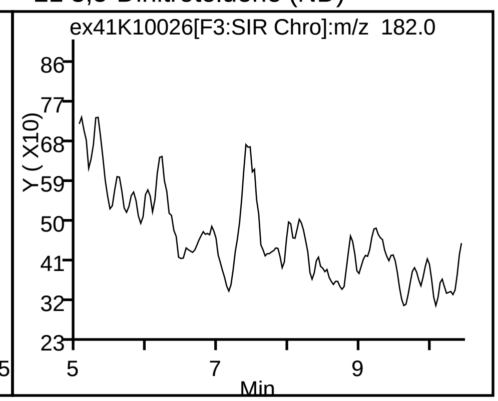
19 2,4-Dinitrotoluene (ND)



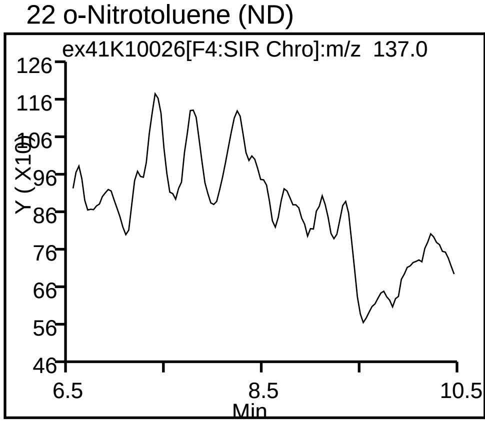
20 PETN (ND)



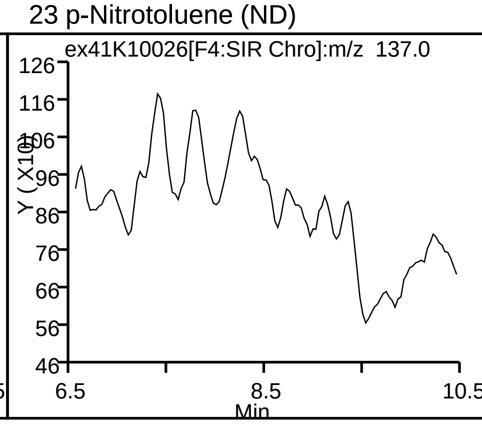
21 3,5-Dinitrotoluene (ND)



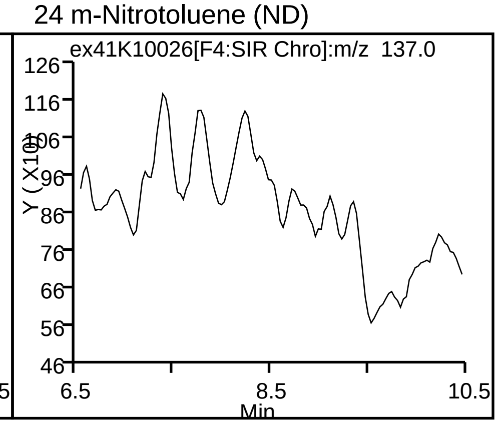
22 o-Nitrotoluene (ND)



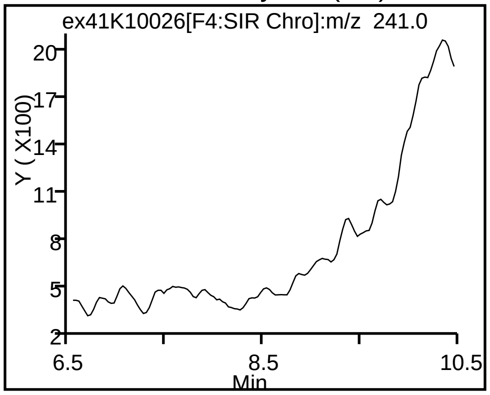
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Client Sample ID: CP31 GW004   Lab Sample ID: 280-22438-13

Matrix: Water   Lab File ID: ex41K10042.d

Analysis Method: 8321B   Date Collected: 11/01/2011 14:56

Extraction Method: 3535   Date Extracted: 11/07/2011 11:42

Sample wt/vol: 823.8(mL)   Date Analyzed: 11/10/2011 18:17

Con. Extract Vol.: 5(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95630   Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.061	U	0.12	0.061	0.021
99-65-0	1,3-Dinitrobenzene	0.061	U	0.12	0.061	0.017
118-96-7	2,4,6-Trinitrotoluene	0.061	U	0.12	0.061	0.027
121-14-2	2,4-Dinitrotoluene	0.061	U	0.12	0.061	0.023
606-20-2	2,6-Dinitrotoluene	0.061	U	0.12	0.061	0.027
35572-78-2	2-Amino-4,6-dinitrotoluene	0.061	U	0.12	0.061	0.025
88-72-2	2-Nitrotoluene	0.061	U	0.12	0.061	0.027
99-08-1	3-Nitrotoluene	0.061	U	0.12	0.061	0.030
19406-51-0	4-Amino-2,6-dinitrotoluene	0.061	U	0.12	0.061	0.023
99-99-0	4-Nitrotoluene	0.061	U	0.12	0.061	0.032
98-95-3	Nitrobenzene	0.061	U	0.12	0.061	0.040
55-63-0	Nitroglycerin	0.061	U	0.17	0.061	0.055
78-11-5	PETN	0.061	U	0.12	0.061	0.022
121-82-4	RDX	0.061	U	0.12	0.061	0.025
479-45-8	Tetryl	0.061	U	0.12	0.061	0.025

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	95		48-130

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10042.d		
Lims ID:	280-22438-B-13-B	Client ID:	CP31 GW004
Inject. Date:	10-Nov-2011 18:17:47	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-B-13-B 280-0002741-040		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	56
Lims Batch ID:	95630	Lims Sample ID:	40
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:36	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:35:53

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										s
1	360.8	2.062	2.062	0.000		246121	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		1698815	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0		3.759							
6 Tetryl										
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	5.035	4.954	0.081		1728954	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.472	0.068	1.100	707794	93.8			
12 Nitrobenzene										
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.170	0.092		5034184	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0		8.223							
23 p-Nitrotoluene										
4	137.0		8.770							
24 m-Nitrotoluene										
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

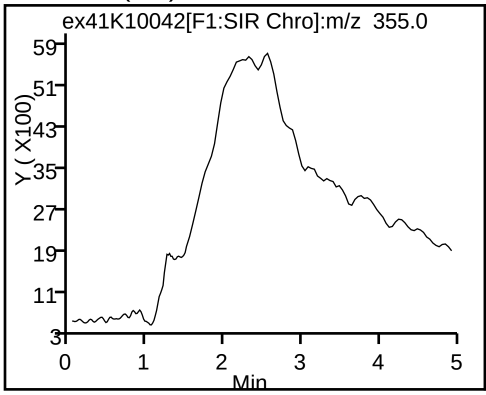
QC Flag Legend

Processing Flags
1 - Missing Peaks
s - Failed ISTD Recovery Test

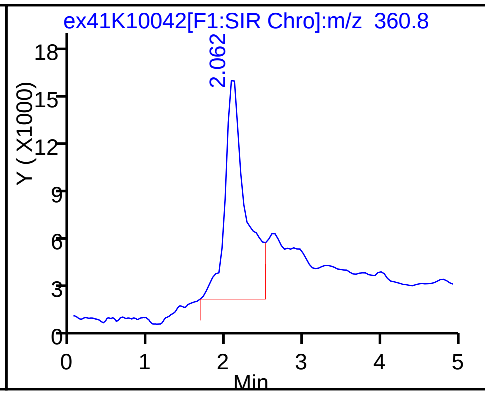
Report Date: 11-Nov-2011 06:40:40 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10042.d

Injection Date:	10-Nov-2011 18:17:47	Limit Group:	LC - 8321A Expl
Client ID:	CP31 GW004	Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	40
Operator ID:		Injection Vol:	40.00 ul

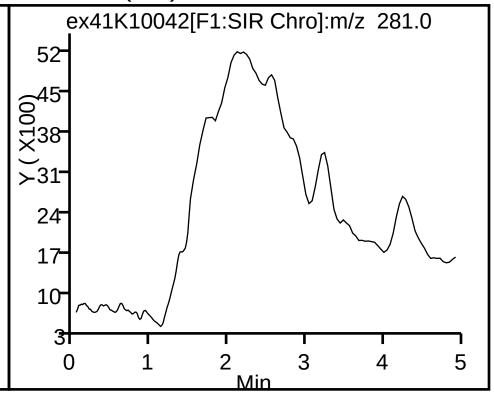
2 HMX (ND)



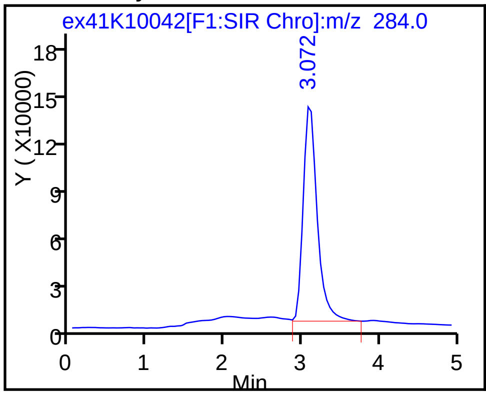
* 1 HMX-13C4



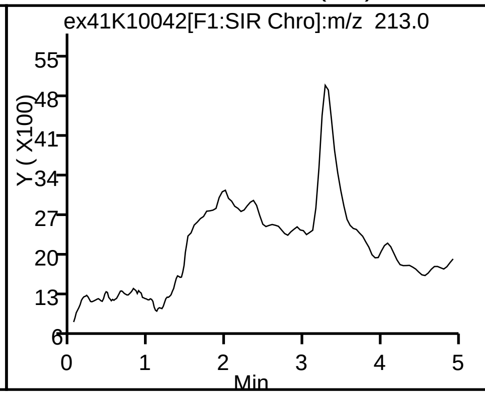
4 RDX (ND)



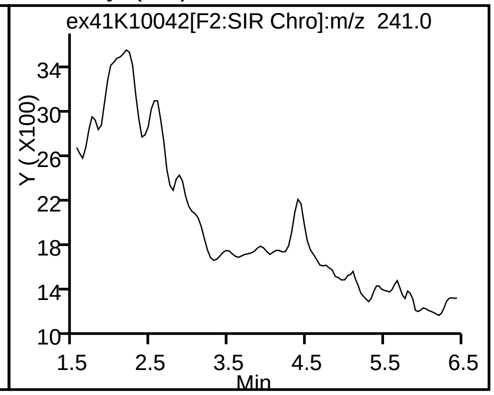
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



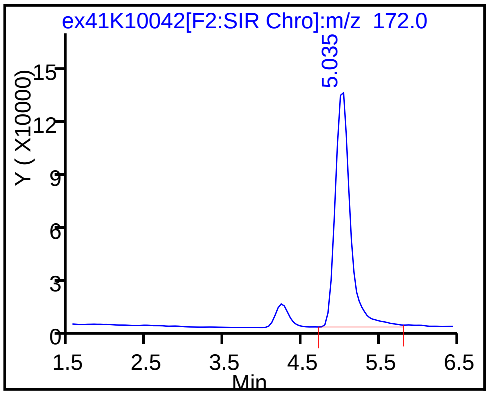
5 1,3,5-Trinitrobenzene (ND)



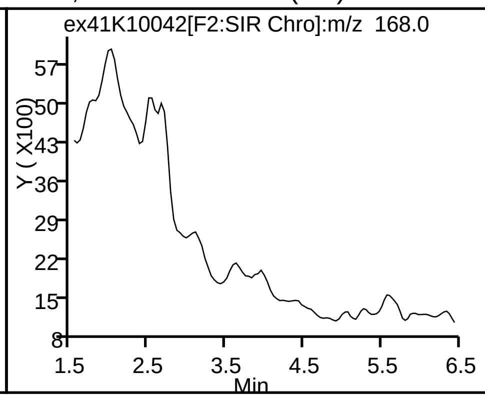
6 Tetryl (ND)



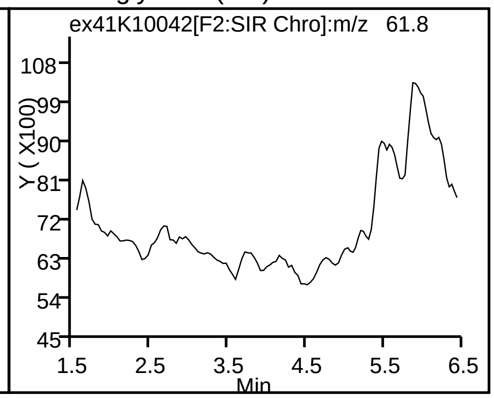
* 7 1,3-Dinitrobenzene-d4



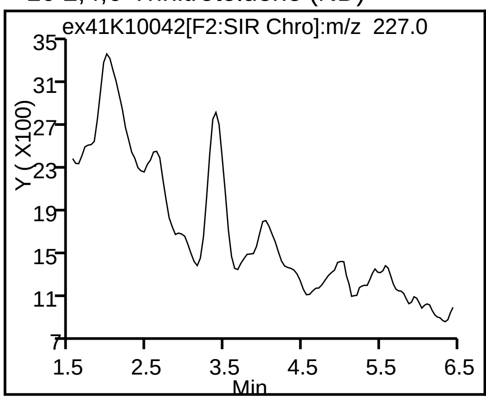
8 1,3-Dinitrobenzene (ND)



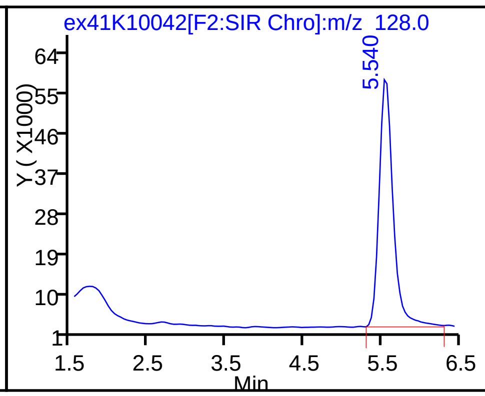
9 Nitroglycerin (ND)



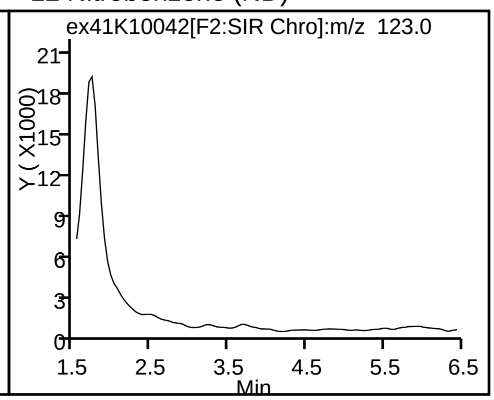
10 2,4,6-Trinitrotoluene (ND)



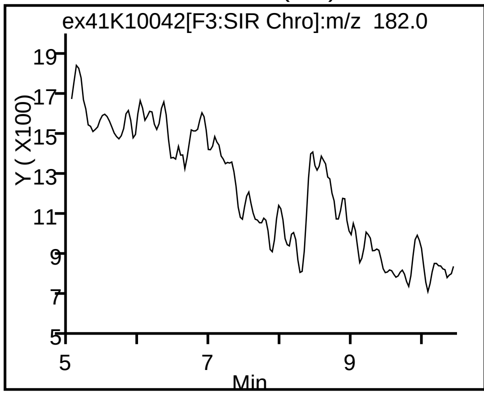
$ 11 Nitrobenzene-d5



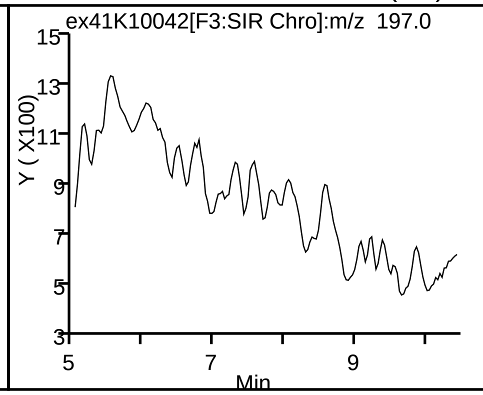
12 Nitrobenzene (ND)



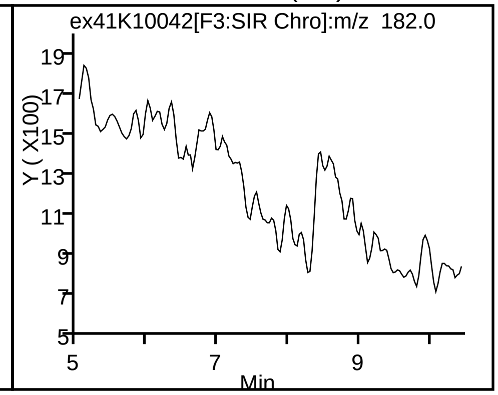
13 3,4-Dinitrotoluene (ND)



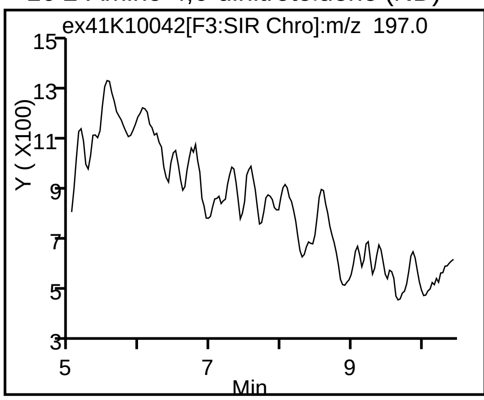
14 4-Amino-2,6-dinitrotoluene (ND)



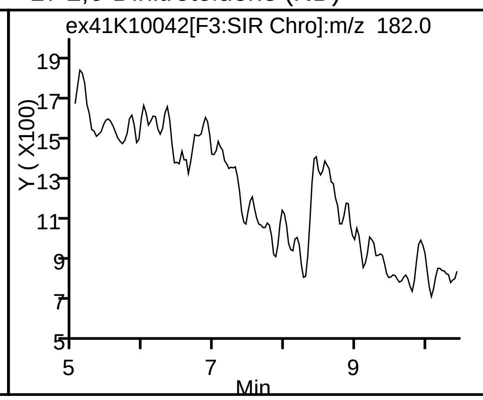
15 2,3-Dinitrotoluene (ND)



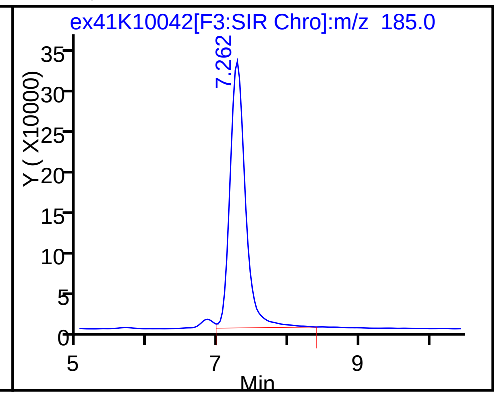
16 2-Amino-4,6-dinitrotoluene (ND)



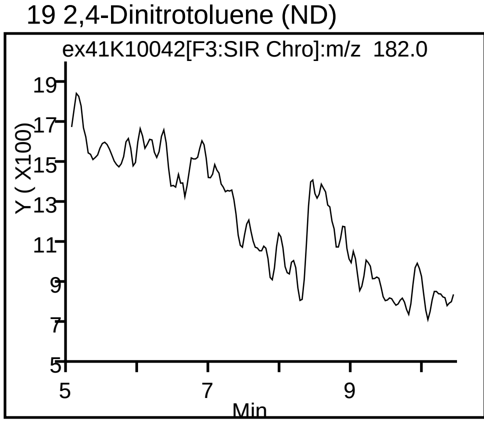
17 2,6-Dinitrotoluene (ND)



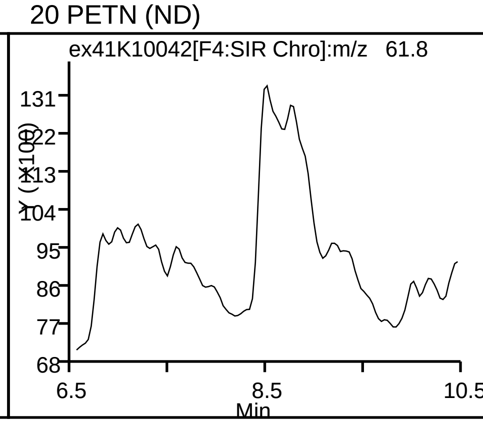
* 18 2,4-dinitrotoluene-d3



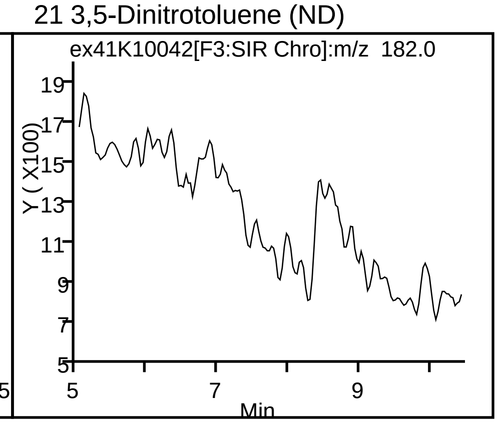
19 2,4-Dinitrotoluene (ND)



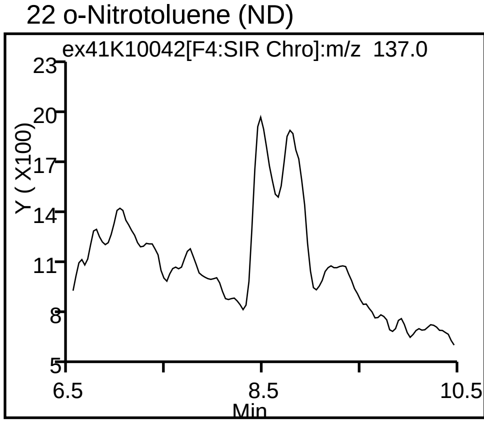
20 PETN (ND)



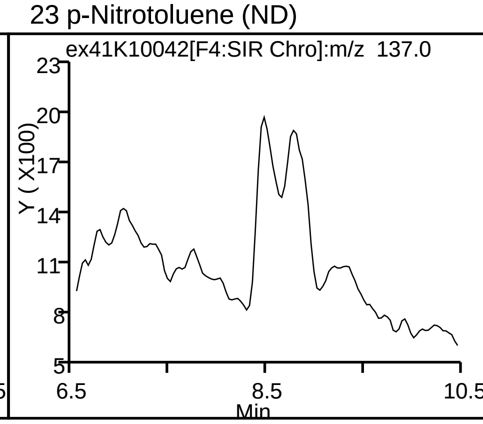
21 3,5-Dinitrotoluene (ND)



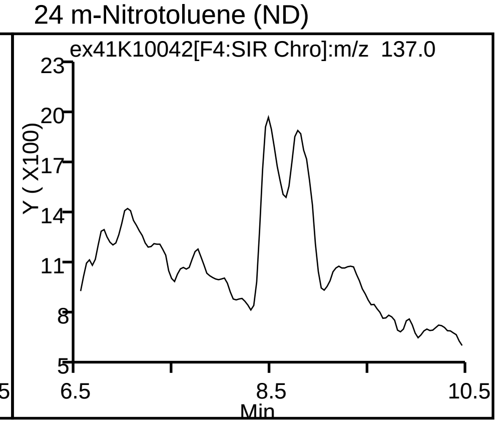
22 o-Nitrotoluene (ND)



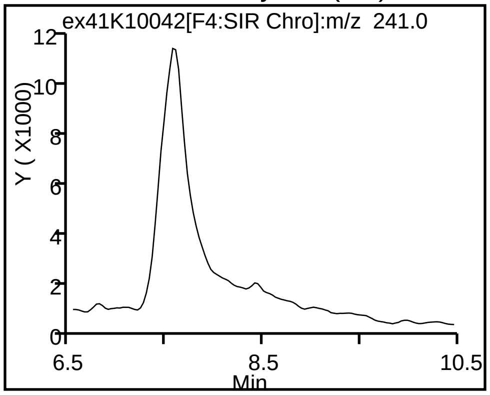
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Client Sample ID: CP31 GW004 DL   Lab Sample ID: 280-22438-13 DL

Matrix: Water   Lab File ID: ex41K10027.d

Analysis Method: 8321B   Date Collected: 11/01/2011 14:56

Extraction Method: 3535   Date Extracted: 11/07/2011 11:42

Sample wt/vol: 823.8(mL)   Date Analyzed: 11/10/2011 15:15

Con. Extract Vol.: 5(mL)   Dilution Factor: 10

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629   Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
2691-41-0	HMX	0.61	U	1.2	0.61	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81	D	48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10027.d		
Lims ID:	280-22438-B-13-B	Client ID:	CP31 GW004
Inject. Date:	10-Nov-2011 15:15:12	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	280-22438-B-13-B 10x 280-0002741-025		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	69
Lims Batch ID:	95629	Lims Sample ID:	25
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:25	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:32:13

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		756740	250.0			
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2736444	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1611293	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	55940	7.96			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4432652	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

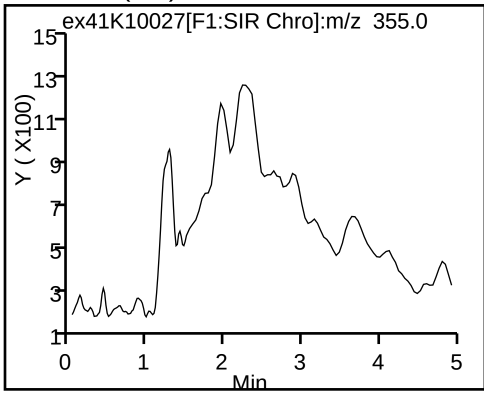
Processing Flags
1 - Missing Peaks

Report Date: 11-Nov-2011 06:40:30 Chrom Revision: 1.2 13-Jul-2011 10:43:06

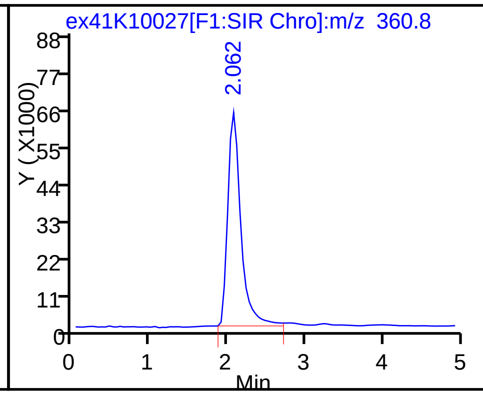
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10027.d

Injection Date:	10-Nov-2011 15:15:12	Limit Group:	LC - 8321A Expl
Client ID:	CP31 GW004	Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	25
Operator ID:		Injection Vol:	40.00 ul

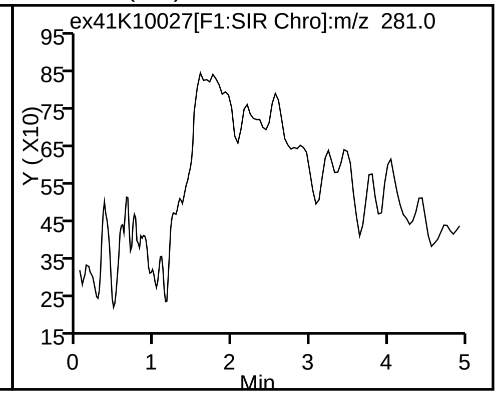
2 HMX (ND)



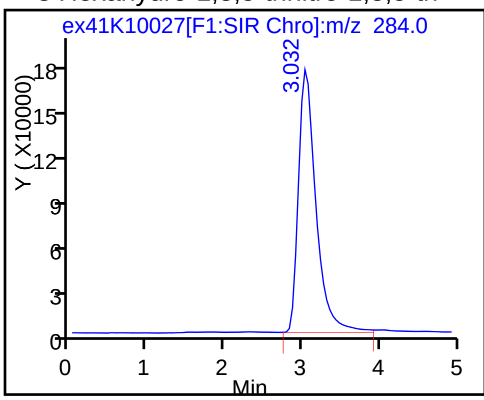
* 1 HMX-13C4



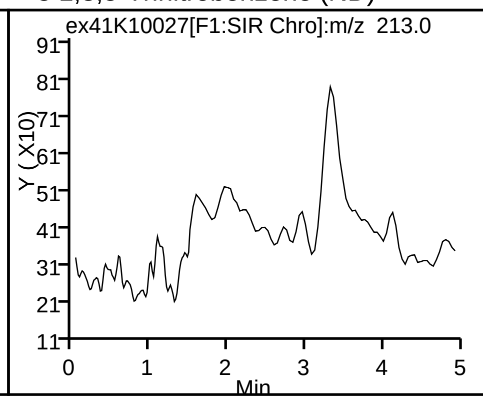
4 RDX (ND)



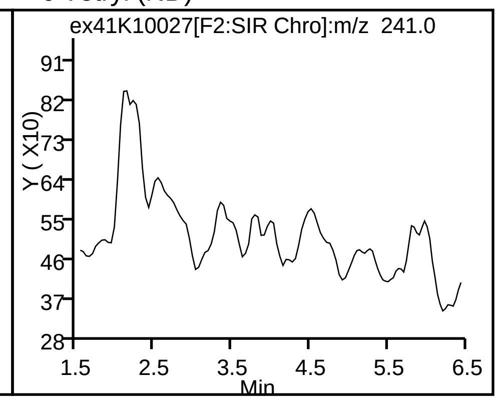
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



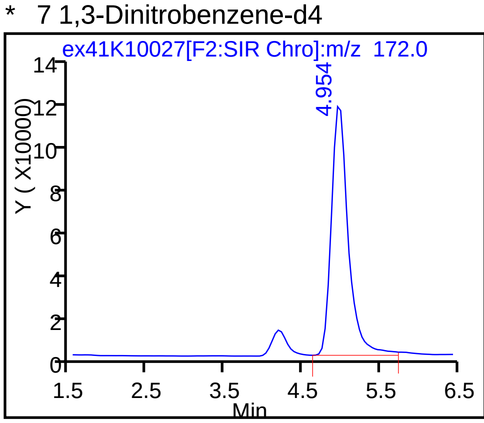
5 1,3,5-Trinitrobenzene (ND)



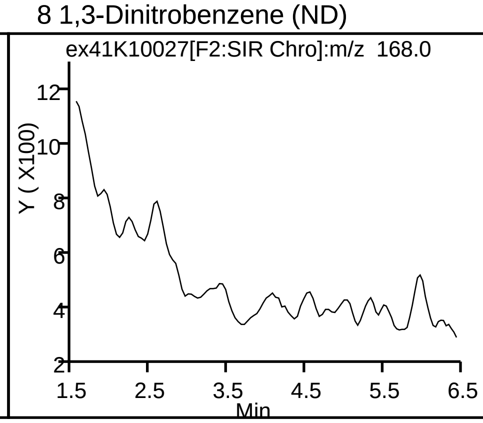
6 Tetryl (ND)



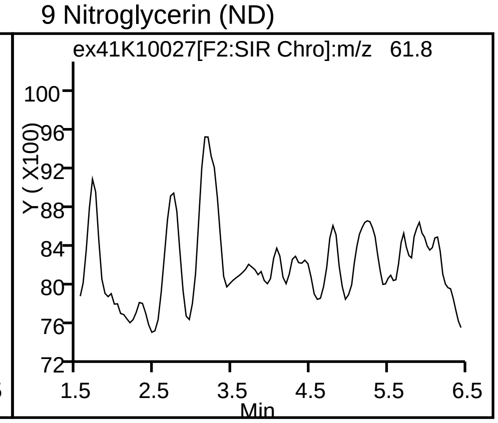
* 7 1,3-Dinitrobenzene-d4



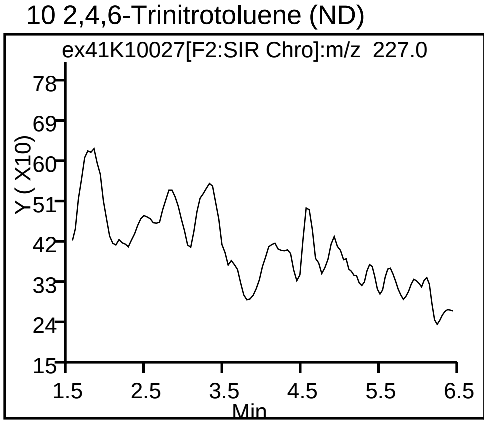
8 1,3-Dinitrobenzene (ND)



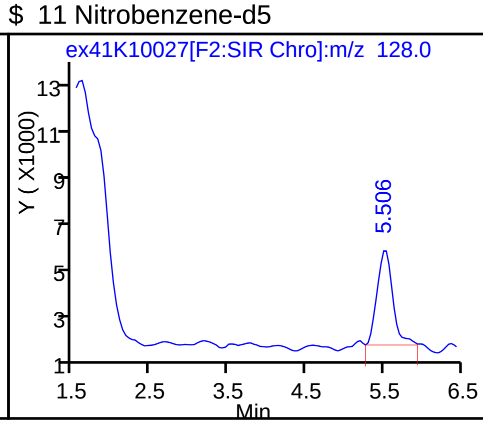
9 Nitroglycerin (ND)



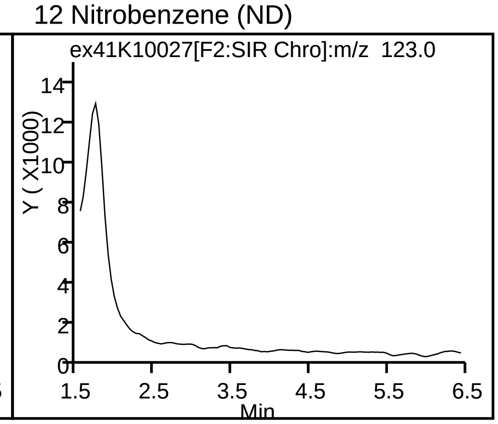
10 2,4,6-Trinitrotoluene (ND)



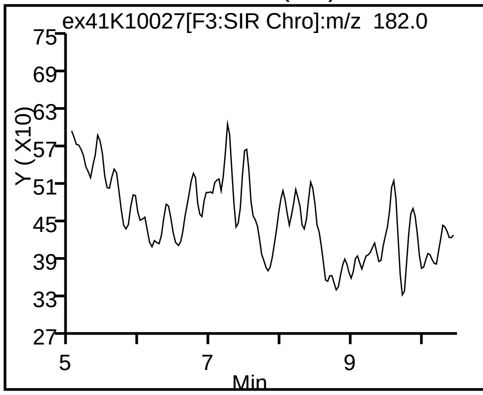
$ 11 Nitrobenzene-d5



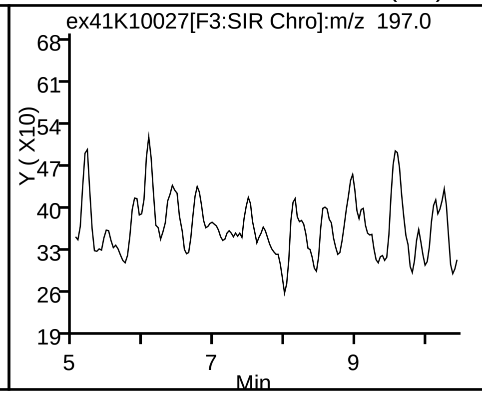
12 Nitrobenzene (ND)



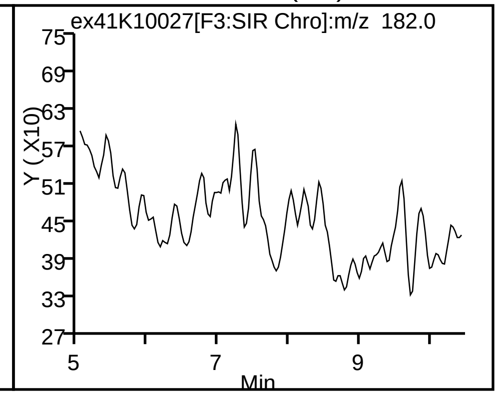
13 3,4-Dinitrotoluene (ND)



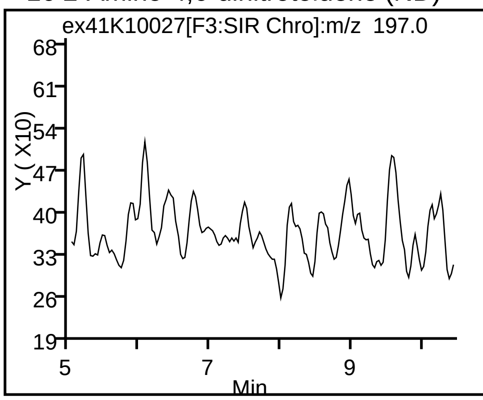
14 4-Amino-2,6-dinitrotoluene (ND)



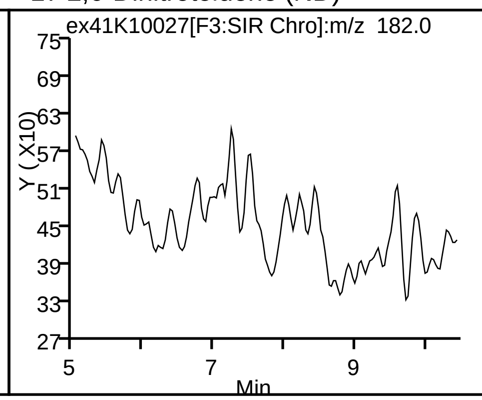
15 2,3-Dinitrotoluene (ND)



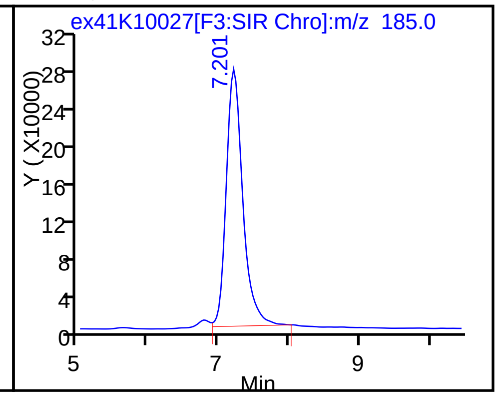
16 2-Amino-4,6-dinitrotoluene (ND)



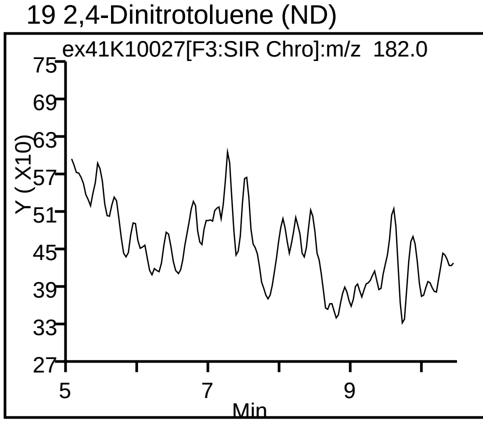
17 2,6-Dinitrotoluene (ND)



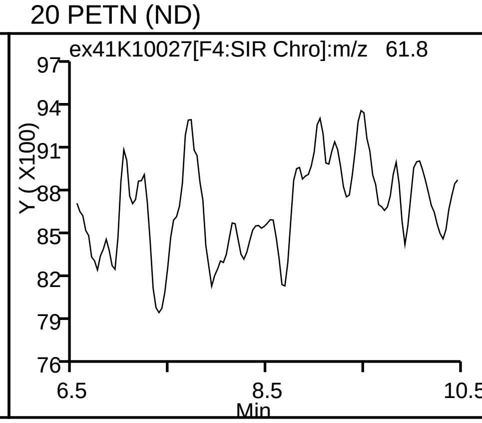
* 18 2,4-dinitrotoluene-d3



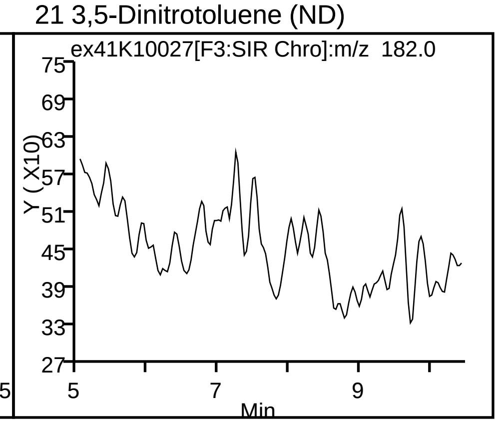
19 2,4-Dinitrotoluene (ND)



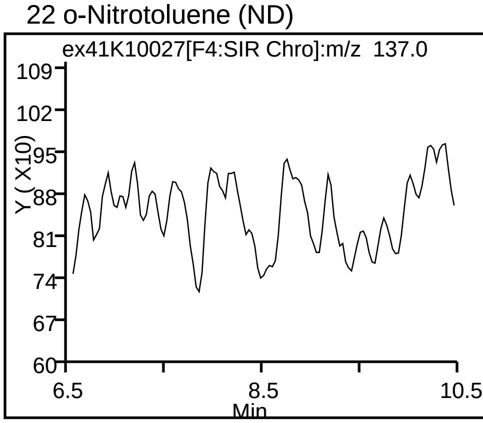
20 PETN (ND)



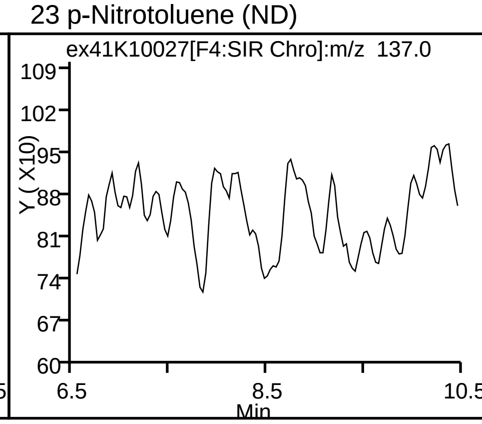
21 3,5-Dinitrotoluene (ND)



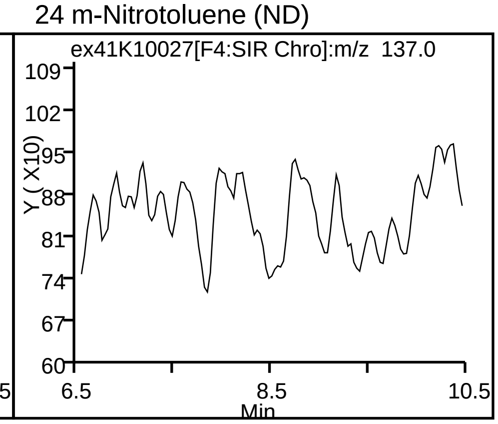
22 o-Nitrotoluene (ND)



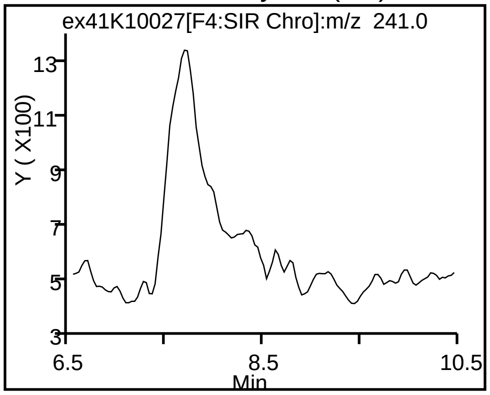
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name:	TestAmerica Denver	Job No.:	280-22438-1
SDG No.:			
Client Sample ID:	CP31 GW005	Lab Sample ID:	280-22438-14
Matrix:	Water	Lab File ID:	ex41K10043.d
Analysis Method:	8321B	Date Collected:	11/01/2011 14:56
Extraction Method:	3535	Date Extracted:	11/07/2011 11:42
Sample wt/vol:	875.7(mL)	Date Analyzed:	11/10/2011 18:29
Con. Extract Vol.:	5(mL)	Dilution Factor:	1
Injection Volume:	40(uL)	GC Column:	IonPac ID: 2(mm)
% Moisture:		GPC Cleanup:(Y/N)	N
Analysis Batch No.:	95630	Units:	ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.057	U	0.11	0.057	0.019
99-65-0	1,3-Dinitrobenzene	0.057	U	0.11	0.057	0.016
118-96-7	2,4,6-Trinitrotoluene	0.057	U	0.11	0.057	0.025
121-14-2	2,4-Dinitrotoluene	0.057	U	0.11	0.057	0.022
606-20-2	2,6-Dinitrotoluene	0.057	U	0.11	0.057	0.025
35572-78-2	2-Amino-4,6-dinitrotoluene	0.057	U	0.11	0.057	0.024
88-72-2	2-Nitrotoluene	0.057	U	0.11	0.057	0.025
99-08-1	3-Nitrotoluene	0.057	U	0.11	0.057	0.029
19406-51-0	4-Amino-2,6-dinitrotoluene	0.057	U	0.11	0.057	0.022
99-99-0	4-Nitrotoluene	0.057	U	0.11	0.057	0.030
98-95-3	Nitrobenzene	0.057	U	0.11	0.057	0.038
55-63-0	Nitroglycerin	0.057	U	0.16	0.057	0.051
78-11-5	PETN	0.057	U	0.11	0.057	0.021
479-45-8	Tetryl	0.057	U	0.11	0.057	0.024

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10043.d		
Lims ID:	280-22438-A-14-A	Client ID:	CP31 GW005
Inject. Date:	10-Nov-2011 18:29:52	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-A-14-A 280-0002741-041		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	57
Lims Batch ID:	95630	Lims Sample ID:	41
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:36	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 11-Nov-2011 06:36:10

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										s
1	360.8	2.062	2.062	0.000		234727	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										s
1	284.0	3.072	3.032	0.040		935618	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1837268	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.472	0.067	1.109	605060	75.4			
12 Nitrobenzene										
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.170	0.061		4829486	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

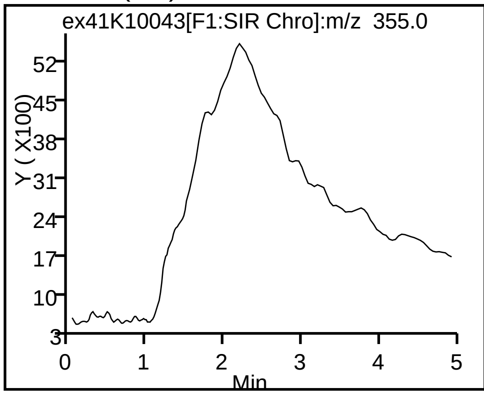
Processing Flags
1 - Missing Peaks
s - Failed ISTD Recovery Test

Report Date: 11-Nov-2011 06:40:40 — Chrom Revision: 1.2 13-Jul-2011 10:43:06

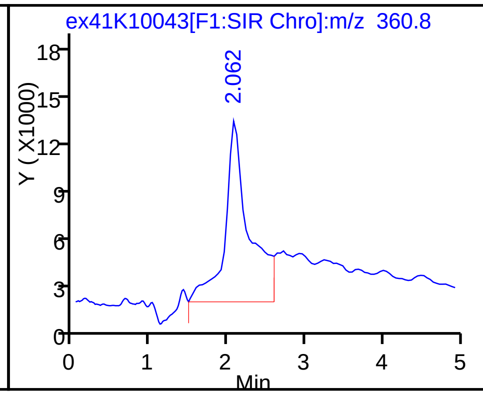
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10043.d

Injection Date:	10-Nov-2011 18:29:52	Limit Group:	LC - 8321A Expl
Client ID:	CP31 GW005	Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	41
Operator ID:		Injection Vol:	40.00 ul

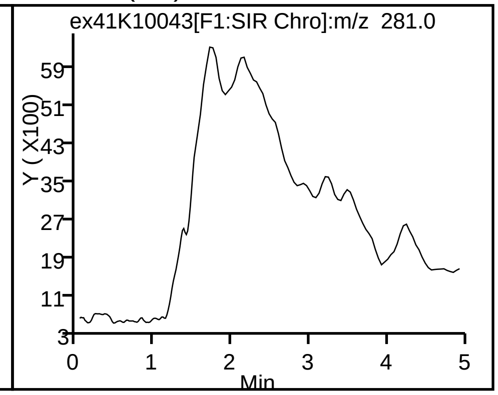
2 HMX (ND)



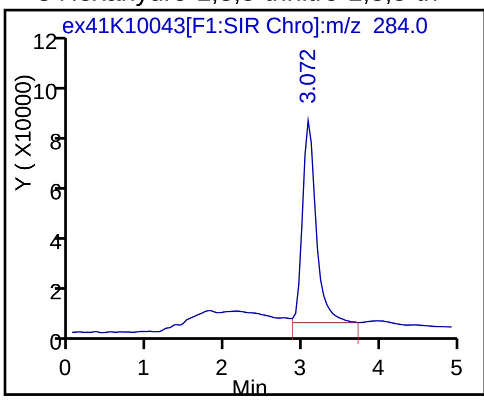
* 1 HMX-13C4



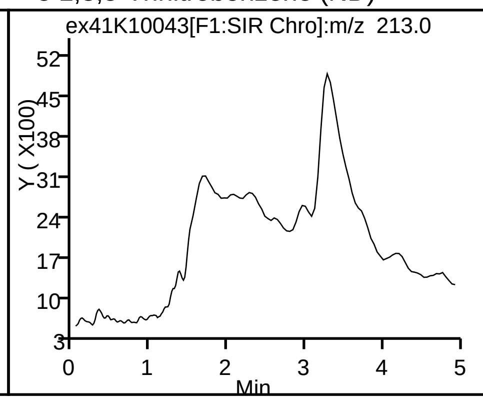
4 RDX (ND)



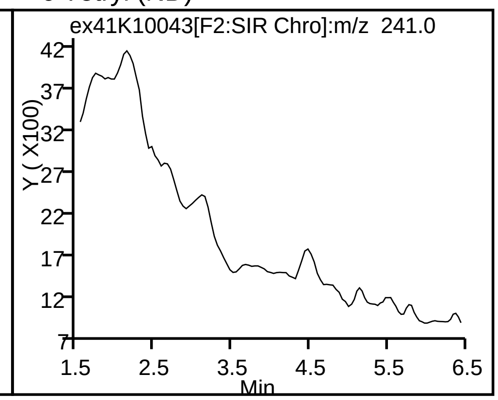
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



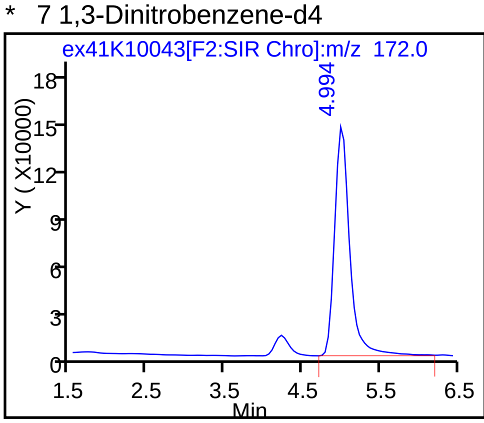
5 1,3,5-Trinitrobenzene (ND)



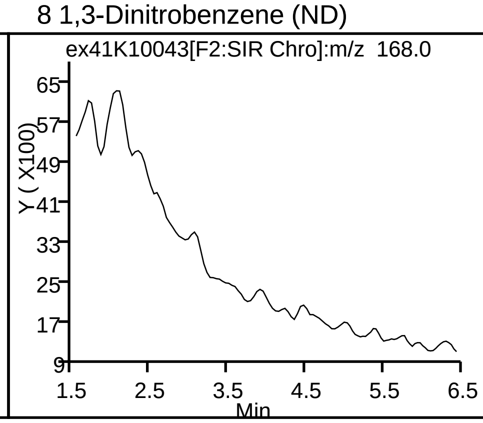
6 Tetryl (ND)



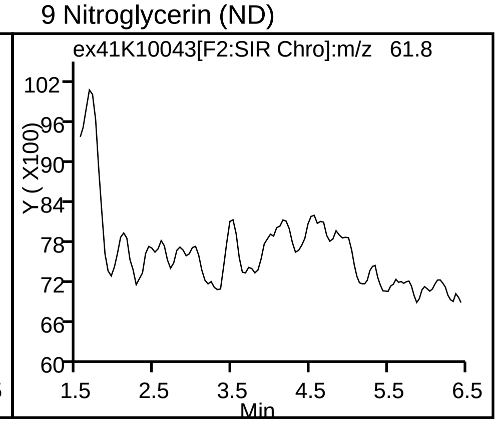
* 7 1,3-Dinitrobenzene-d4



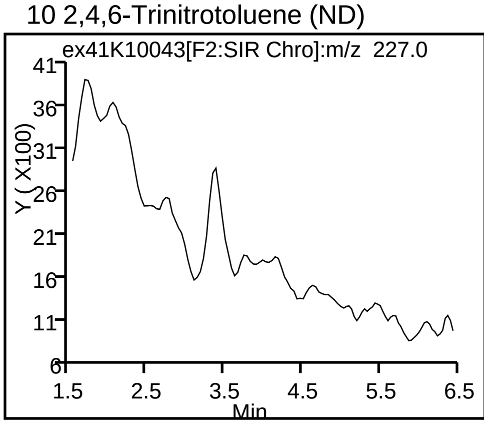
8 1,3-Dinitrobenzene (ND)



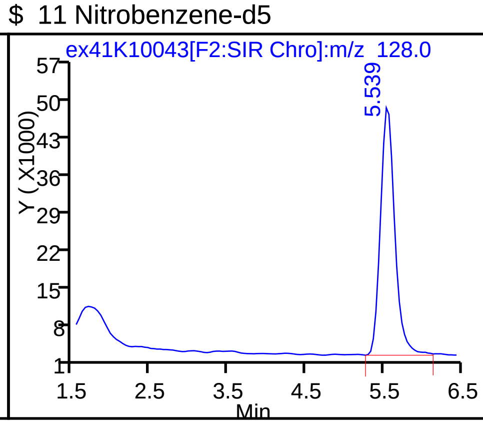
9 Nitroglycerin (ND)



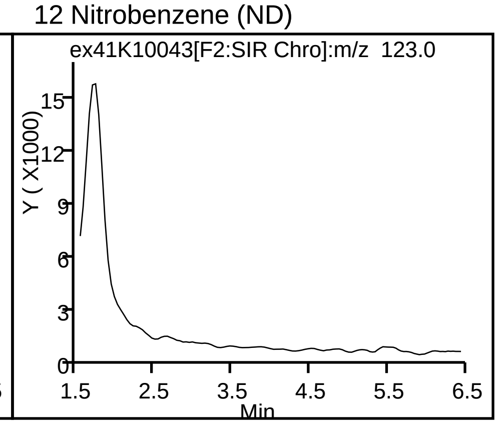
10 2,4,6-Trinitrotoluene (ND)



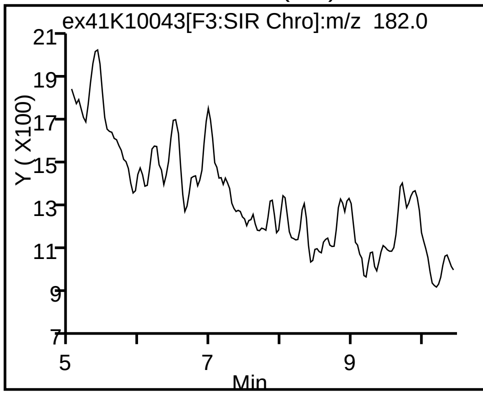
$ 11 Nitrobenzene-d5



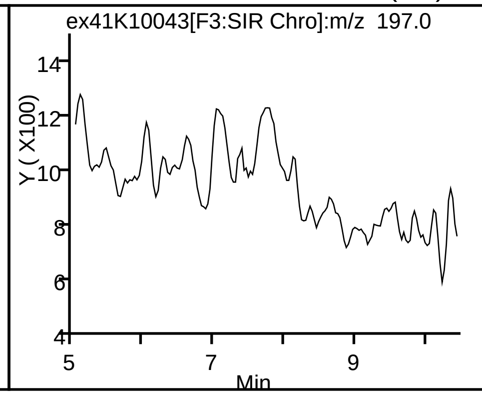
12 Nitrobenzene (ND)



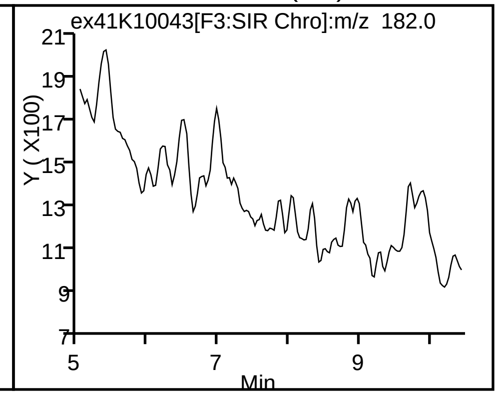
13 3,4-Dinitrotoluene (ND)



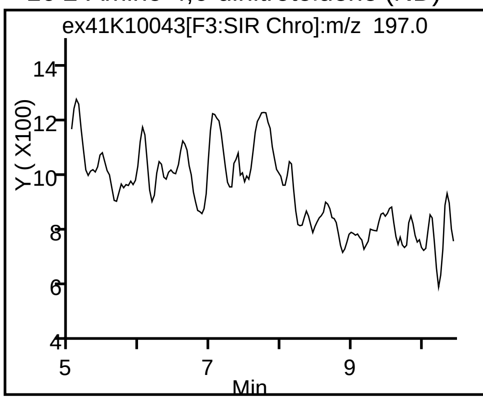
14 4-Amino-2,6-dinitrotoluene (ND)



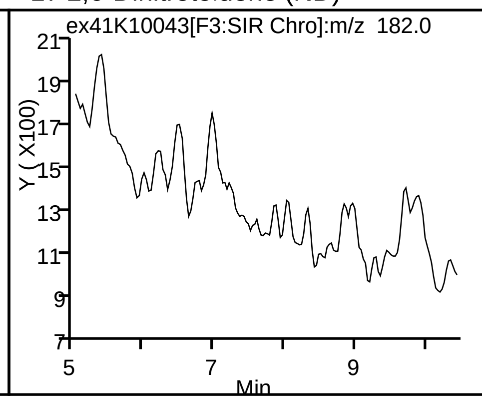
15 2,3-Dinitrotoluene (ND)



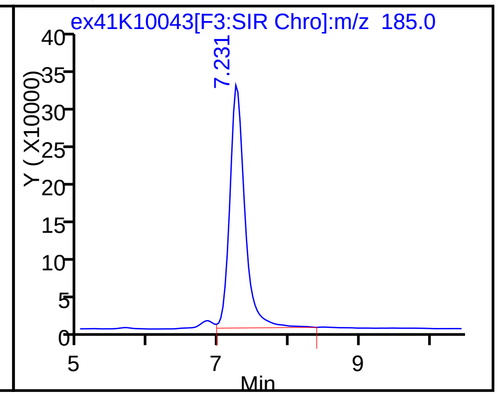
16 2-Amino-4,6-dinitrotoluene (ND)



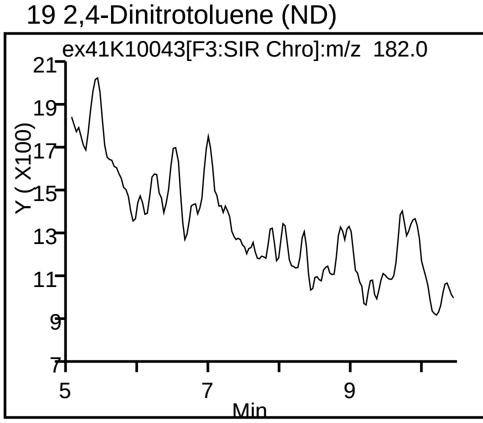
17 2,6-Dinitrotoluene (ND)



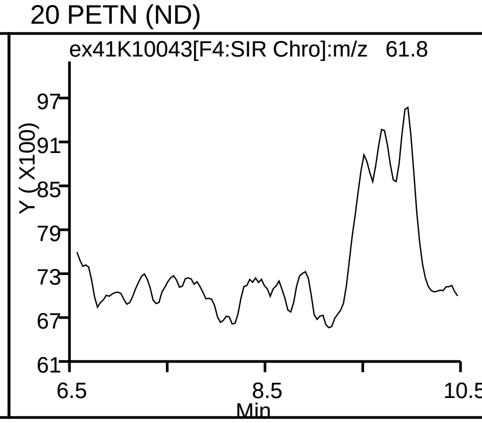
* 18 2,4-dinitrotoluene-d3



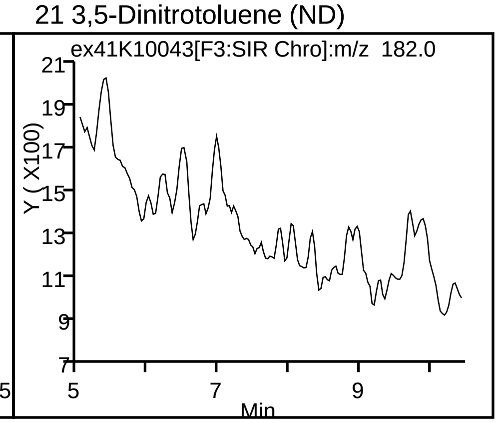
19 2,4-Dinitrotoluene (ND)



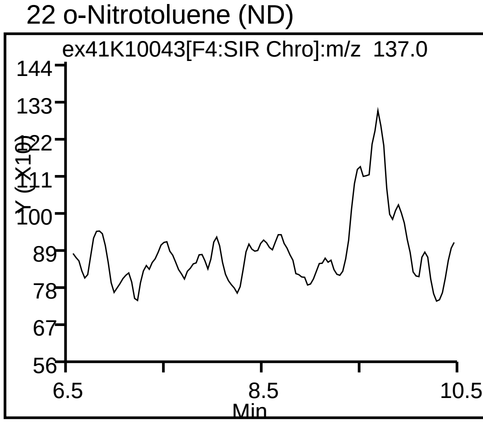
20 PETN (ND)



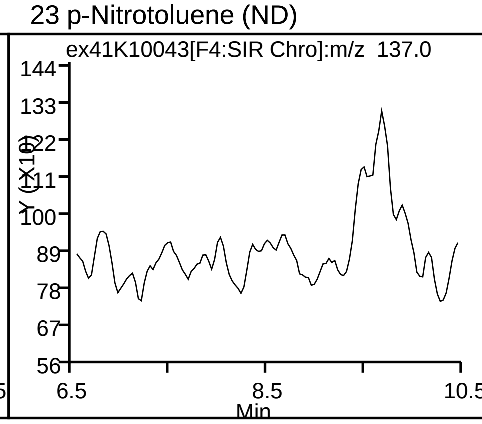
21 3,5-Dinitrotoluene (ND)



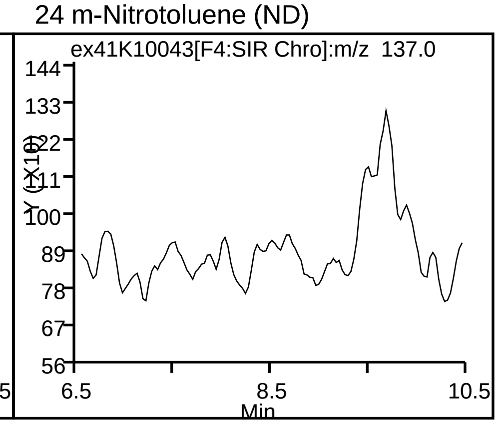
22 o-Nitrotoluene (ND)



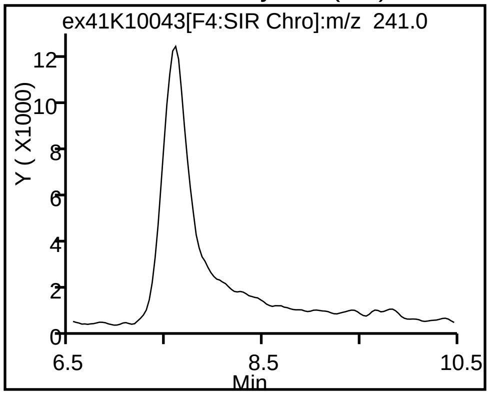
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-22438-1
SDG No.:
Client Sample ID: CP31 GW005 DL
Lab Sample ID: 280-22438-14 DL
Matrix: Water
Lab File ID: ex41K10028.d
Analysis Method: 8321B
Date Collected: 11/01/2011 14:56
Extraction Method: 3535
Date Extracted: 11/07/2011 11:42
Sample wt/vol: 875.7(mL)
Date Analyzed: 11/10/2011 15:27
Con. Extract Vol.: 5(mL)
Dilution Factor: 10
Injection Volume: 40(uL)
GC Column: IonPac ID: 2(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 95629
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
2691-41-0	HMX	0.57	U	1.1	0.57	0.22
121-82-4	RDX	0.57	U	1.1	0.57	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	89	D	48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10028.d		
Lims ID:	280-22438-A-14-A	Client ID:	CP31 GW005
Inject. Date:	10-Nov-2011 15:27:17	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	280-22438-A-14-A 10x 280-0002741-026		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	70
Lims Batch ID:	95629	Lims Sample ID:	26
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:25	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:32:27

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		726014	250.0			
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2972882	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1790027	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	68344	8.75			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

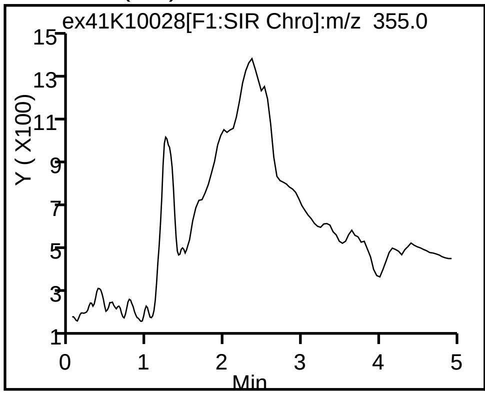
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5324931	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

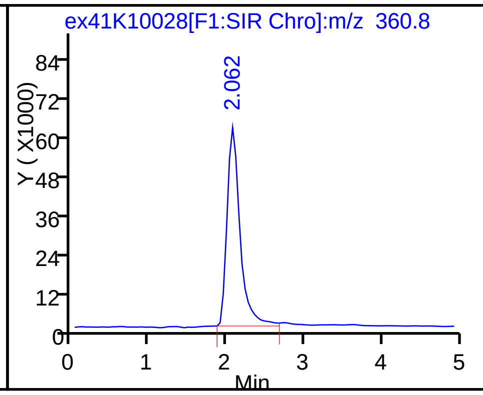
Processing Flags
1 - Missing Peaks

Report Date: 11-Nov-2011 06:40:30		Chrom Revision: 1.2 13-Jul-2011 10:43:06	
Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10028.d		
Injection Date:	10-Nov-2011 15:27:17	Limit Group:	LC - 8321A Expl
Client ID:	CP31 GW005	Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	26
Operator ID:		Injection Vol:	40.00 ul

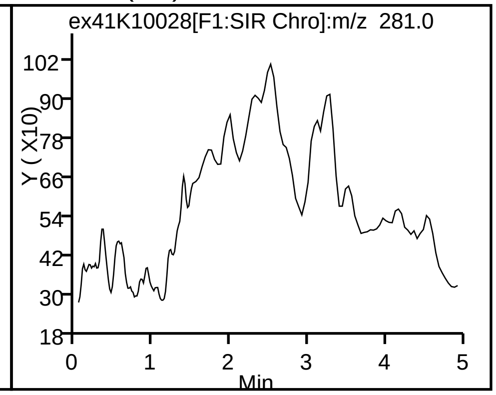
2 HMX (ND)



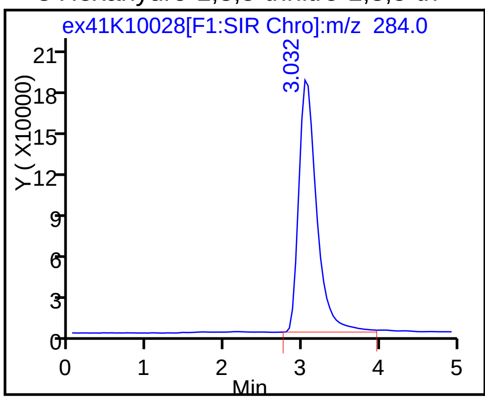
* 1 HMX-13C4



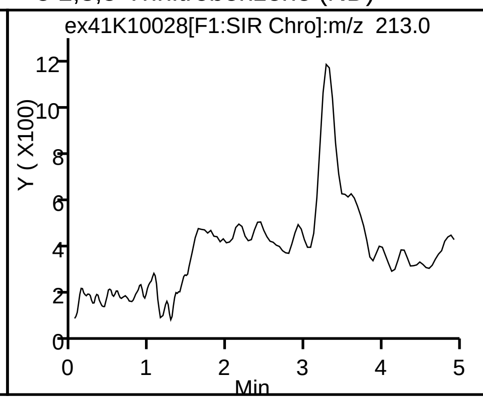
4 RDX (ND)



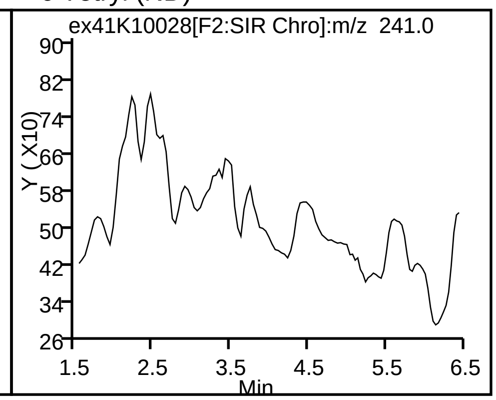
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



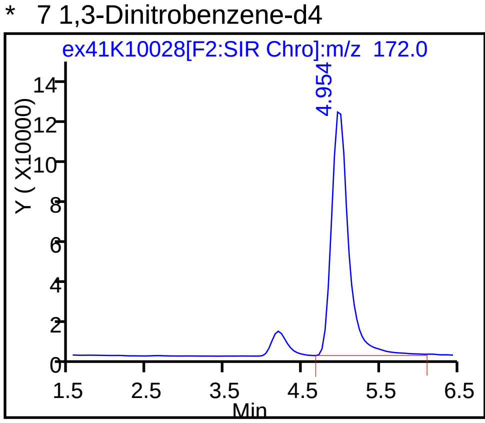
5 1,3,5-Trinitrobenzene (ND)



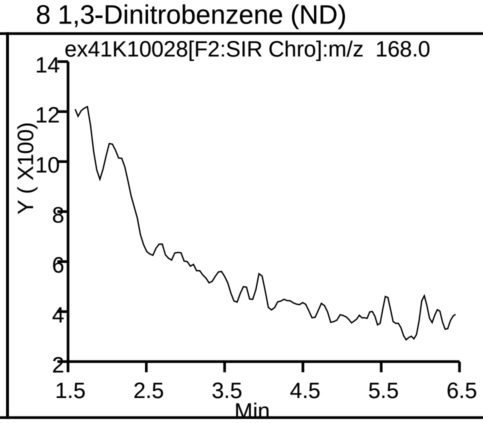
6 Tetryl (ND)



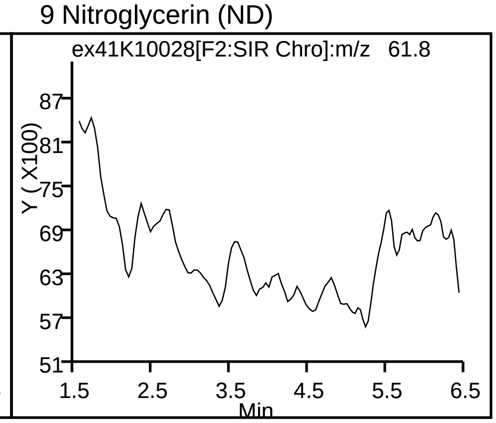
* 7 1,3-Dinitrobenzene-d4



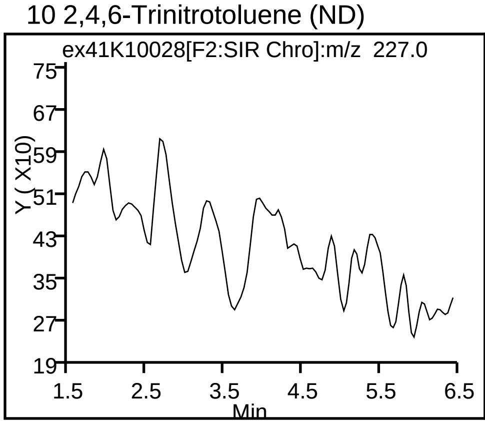
8 1,3-Dinitrobenzene (ND)



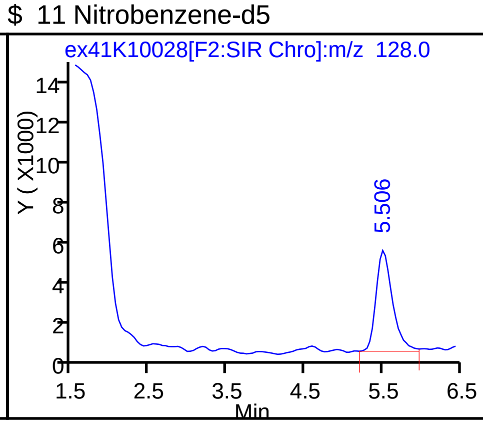
9 Nitroglycerin (ND)



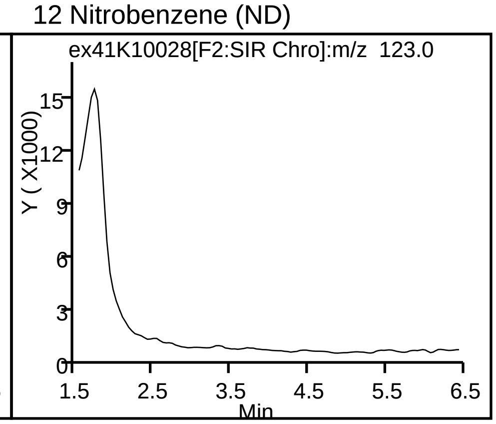
10 2,4,6-Trinitrotoluene (ND)



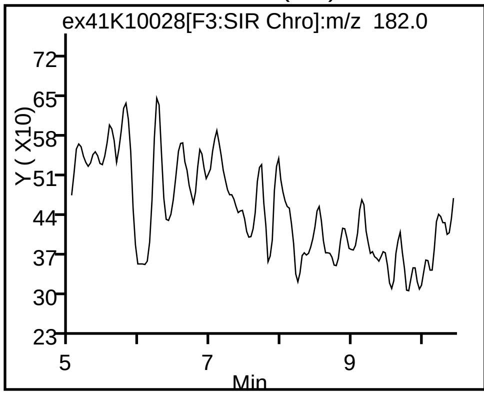
$ 11 Nitrobenzene-d5



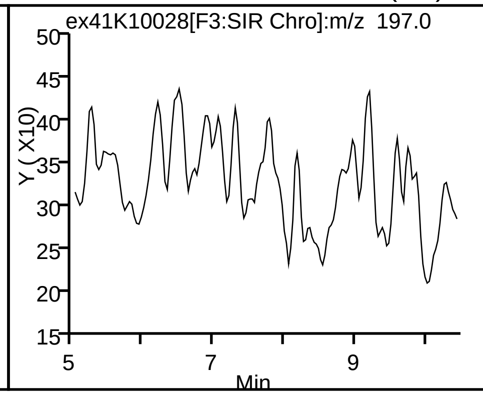
12 Nitrobenzene (ND)



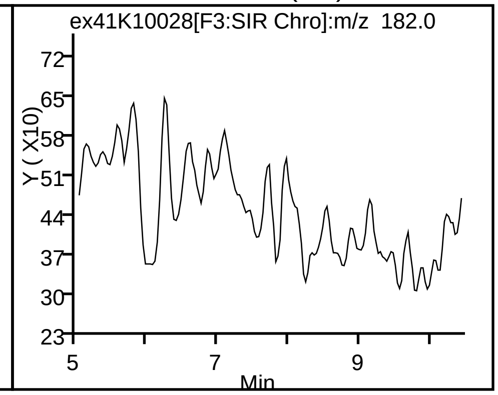
13 3,4-Dinitrotoluene (ND)



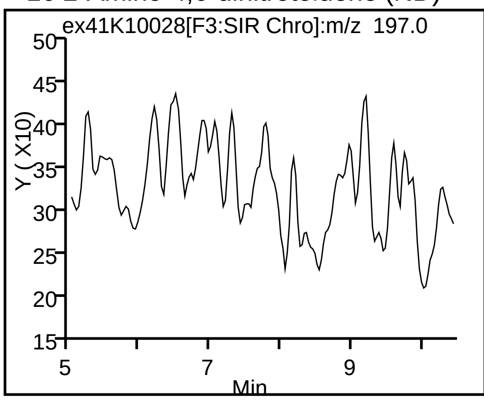
14 4-Amino-2,6-dinitrotoluene (ND)



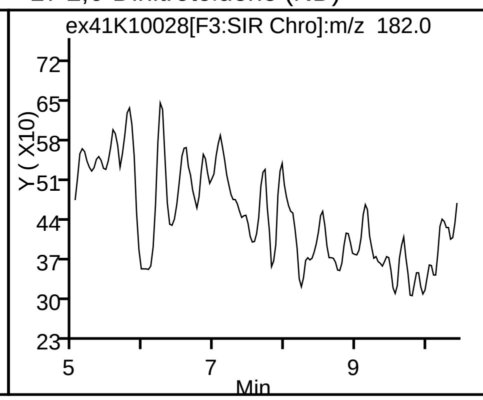
15 2,3-Dinitrotoluene (ND)



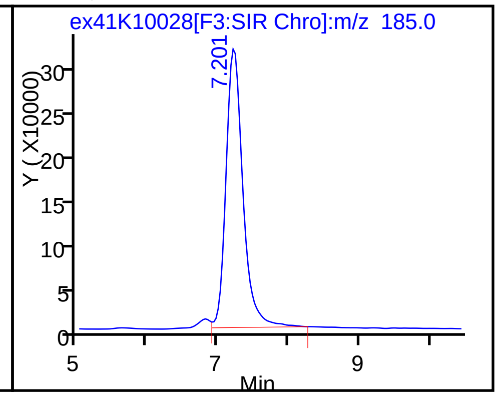
16 2-Amino-4,6-dinitrotoluene (ND)



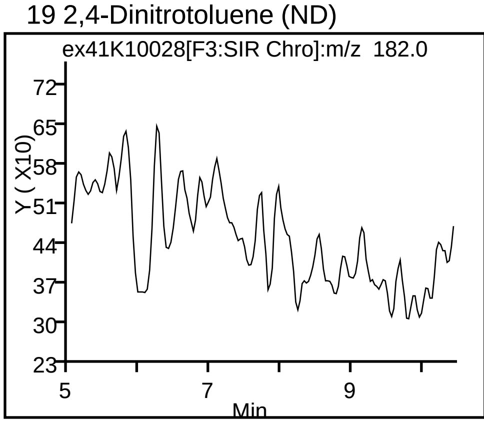
17 2,6-Dinitrotoluene (ND)



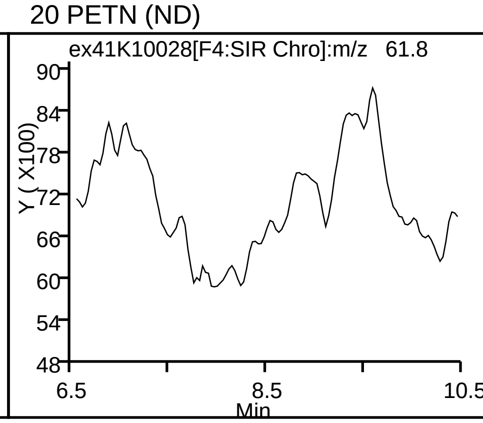
* 18 2,4-dinitrotoluene-d3



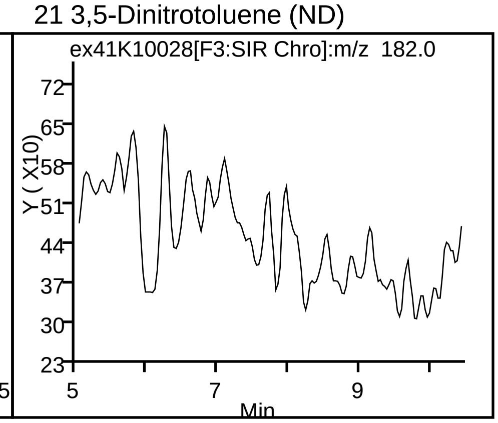
19 2,4-Dinitrotoluene (ND)



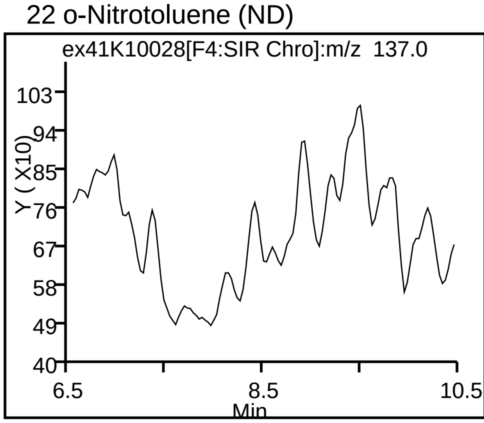
20 PETN (ND)



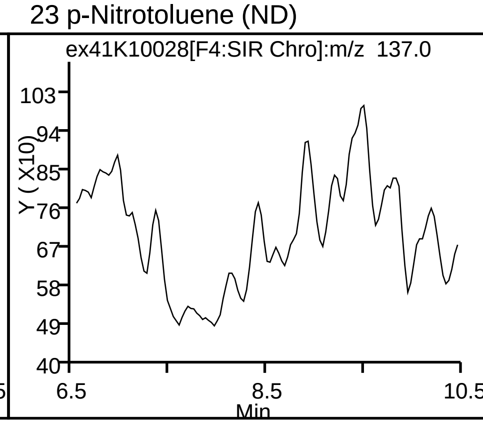
21 3,5-Dinitrotoluene (ND)



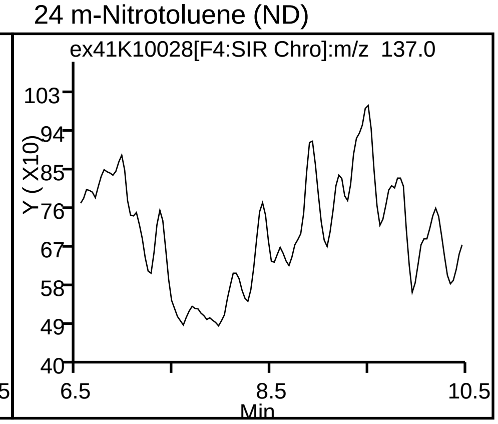
22 o-Nitrotoluene (ND)



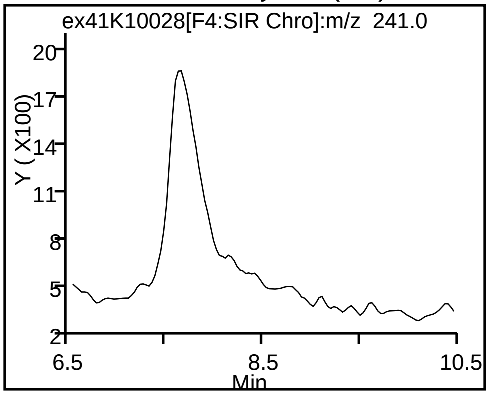
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-22438-1
SDG No.:
Client Sample ID: CP44 SD014
Lab Sample ID: 280-22438-15
Matrix: Solid
Lab File ID: ex41K10120.d
Analysis Method: 8321B
Date Collected: 11/01/2011 16:01
Extraction Method: 8330B
Date Extracted: 11/10/2011 15:50
Sample wt/vol: 10.32(g)
Date Analyzed: 11/14/2011 13:42
Con. Extract Vol.: 40(mL)
Dilution Factor: 1
Injection Volume: 40(uL)
GC Column: IonPac ID: 2(mm)
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 96232
Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	81		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10120.d		
Lims ID:	280-22438-A-15-C	Client ID:	CP44 SD014
Inject. Date:	14-Nov-2011 13:42:07	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-A-15-C 280-0002749-073		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	57
Lims Batch ID:	96232	Lims Sample ID:	73
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\8321exp4-25.m		
Last Update:	15-Nov-2011 07:04:50	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		984732	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3086143	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1931562	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	676187	80.2			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4818305	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

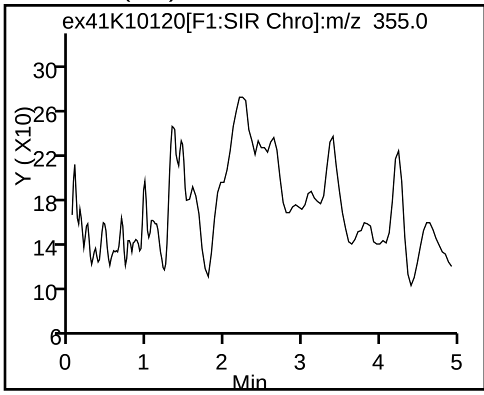
QC Flag Legend

Processing Flags
1 - Missing Peaks

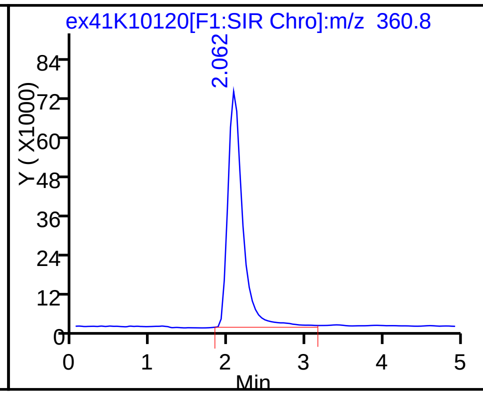
Report Date: 15-Nov-2011 07:04:56 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10120.d

Injection Date:	14-Nov-2011 13:42:07	Limit Group:	LC - 8321A Expl
Client ID:	CP44 SD014	Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	73
Operator ID:		Injection Vol:	40.00 ul

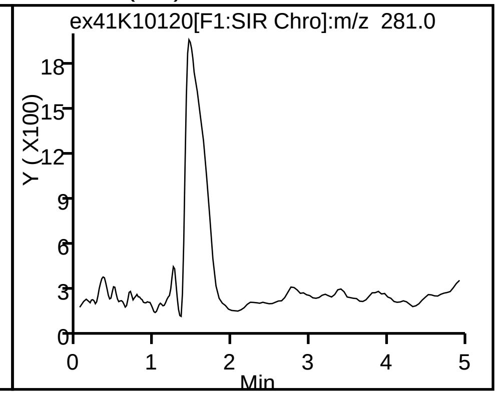
2 HMX (ND)



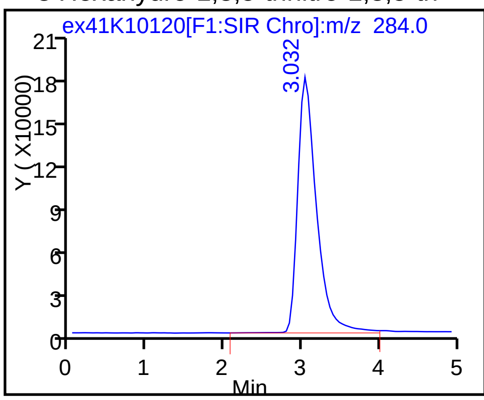
* 1 HMX-13C4



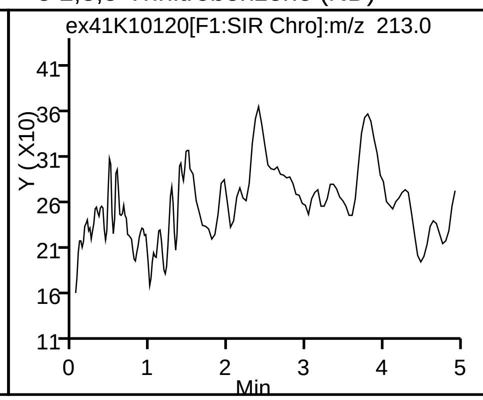
4 RDX (ND)



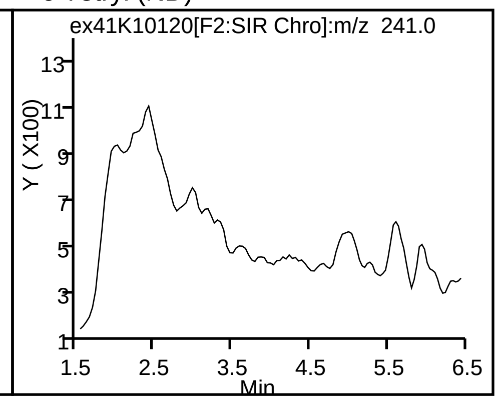
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



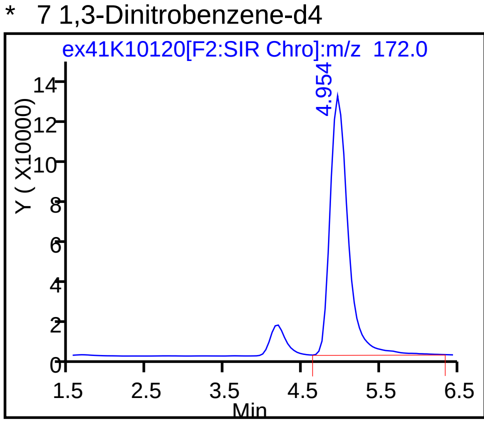
5 1,3,5-Trinitrobenzene (ND)



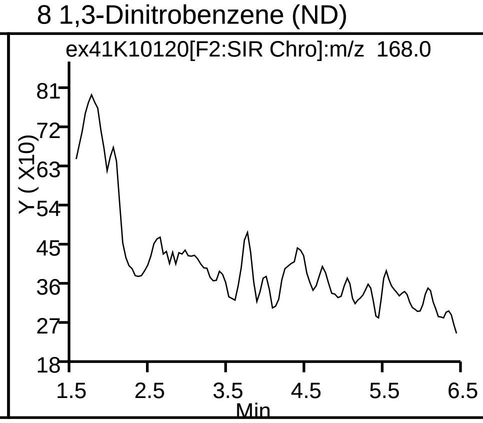
6 Tetryl (ND)



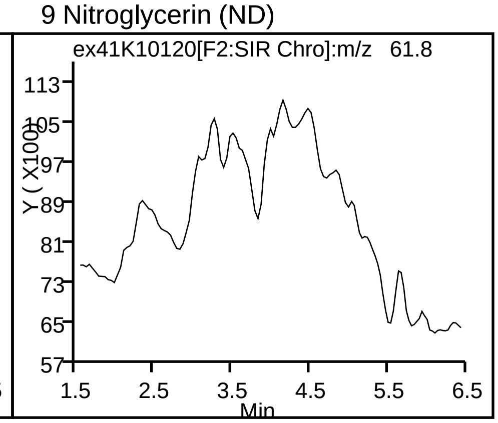
* 7 1,3-Dinitrobenzene-d4



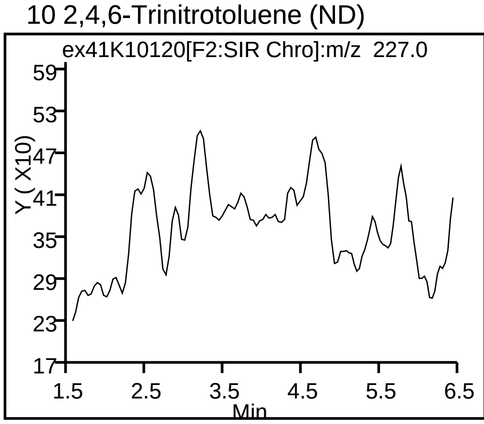
8 1,3-Dinitrobenzene (ND)



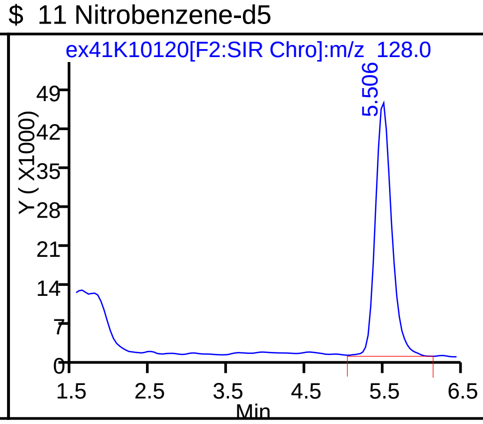
9 Nitroglycerin (ND)



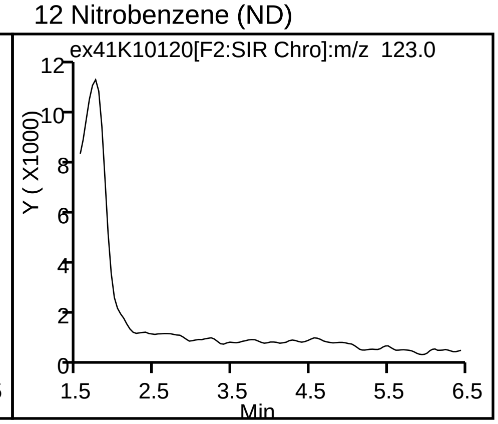
10 2,4,6-Trinitrotoluene (ND)



$ 11 Nitrobenzene-d5

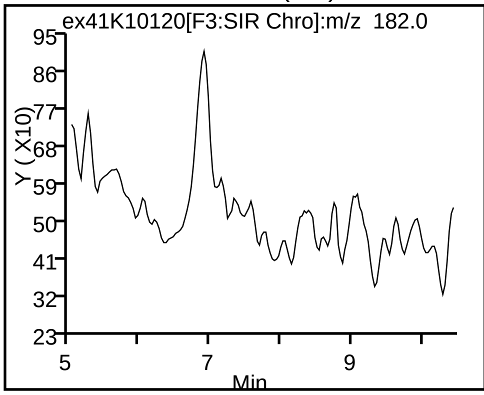


12 Nitrobenzene (ND)

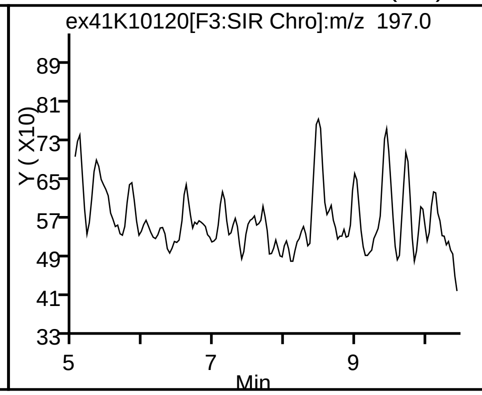


Report Date: 15-Nov-2011 07:04:56 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10120.d

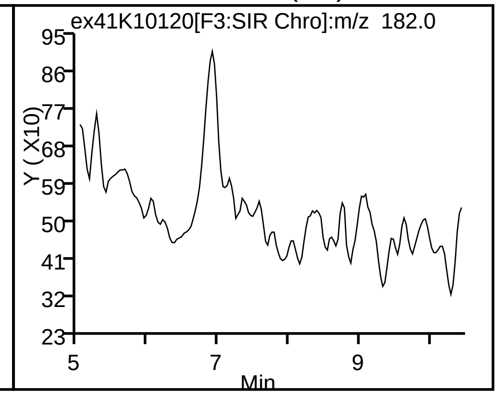
13 3,4-Dinitrotoluene (ND)



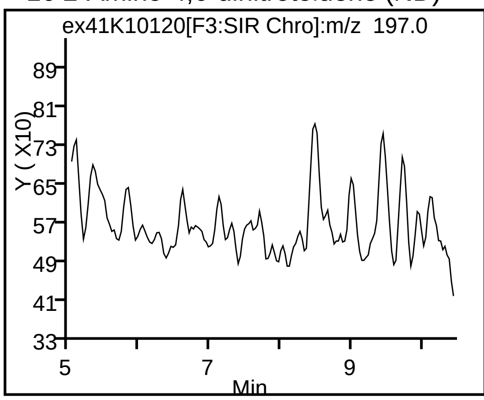
14 4-Amino-2,6-dinitrotoluene (ND)



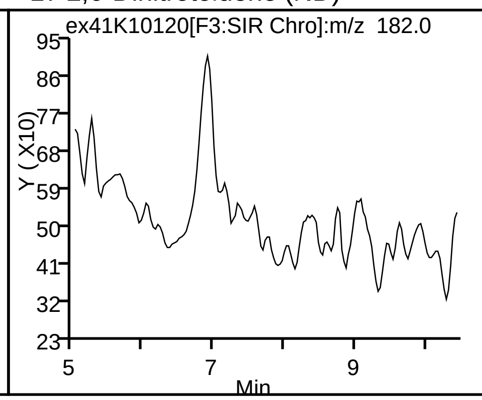
15 2,3-Dinitrotoluene (ND)



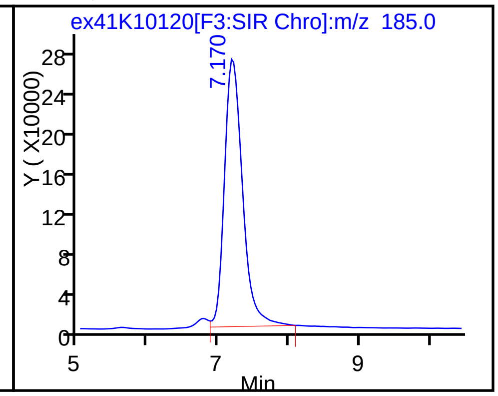
16 2-Amino-4,6-dinitrotoluene (ND)



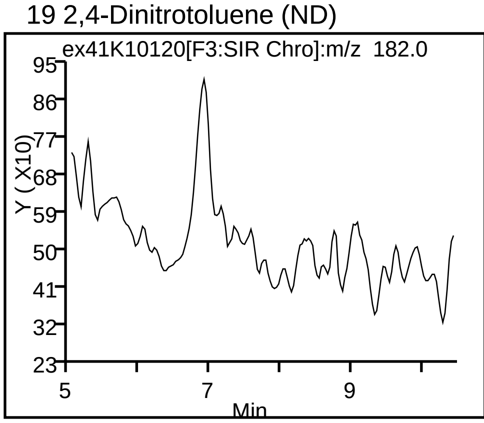
17 2,6-Dinitrotoluene (ND)



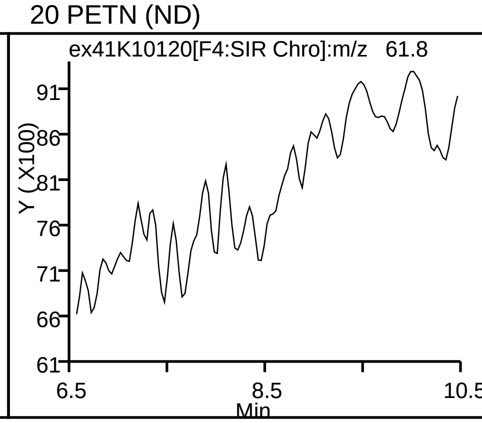
* 18 2,4-dinitrotoluene-d3



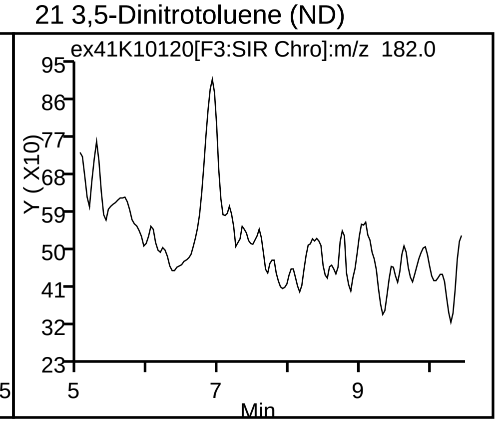
19 2,4-Dinitrotoluene (ND)



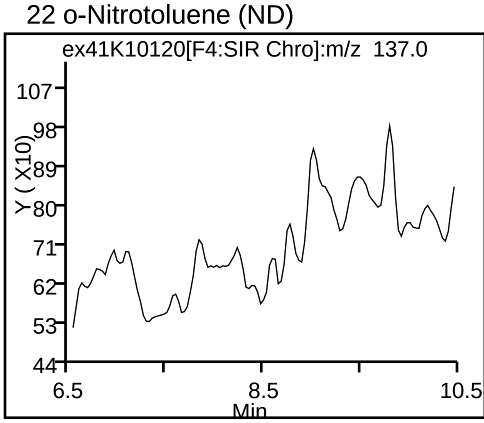
20 PETN (ND)



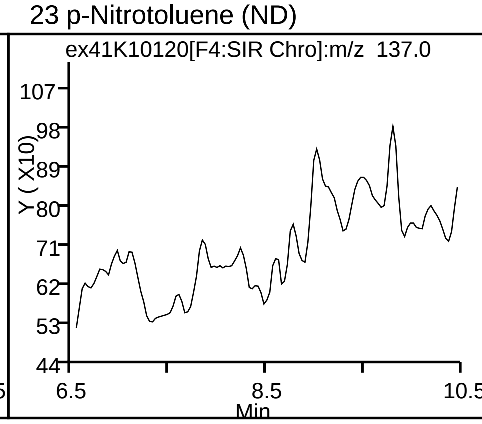
21 3,5-Dinitrotoluene (ND)



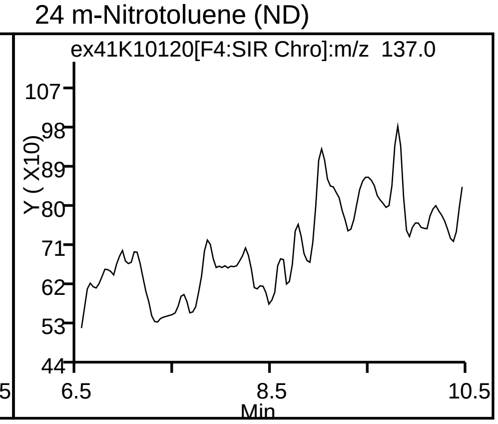
22 o-Nitrotoluene (ND)



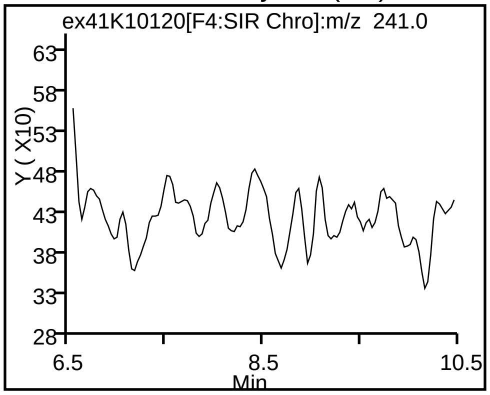
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Client Sample ID: CP45 SD015   Lab Sample ID: 280-22438-16

Matrix: Solid   Lab File ID: ex41K10121.d

Analysis Method: 8321B   Date Collected: 11/01/2011 15:50

Extraction Method: 8330B   Date Extracted: 11/10/2011 15:50

Sample wt/vol: 10.29(g)   Date Analyzed: 11/14/2011 13:54

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 96232   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	91		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10121.d		
Lims ID:	280-22438-B-16-C	Client ID:	CP45 SD015
Inject. Date:	14-Nov-2011 13:54:12	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-B-16-C 280-0002749-074		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	58
Lims Batch ID:	96232	Lims Sample ID:	74
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\8321exp4-25.m		
Last Update:	15-Nov-2011 07:04:50	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera   Date: 14-Nov-2011 15:08:44

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		980862	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3341846	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1629007	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	641790	90.3			
12 Nitrobenzene										
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		5027406	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

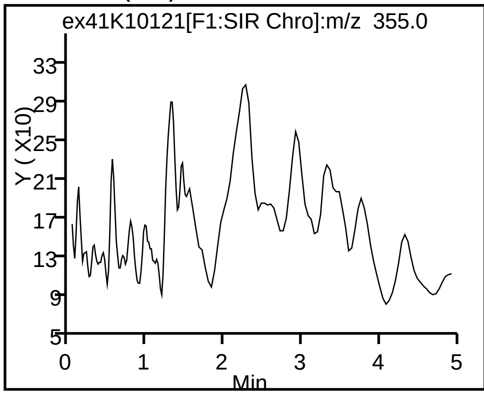
QC Flag Legend

Processing Flags
1 - Missing Peaks

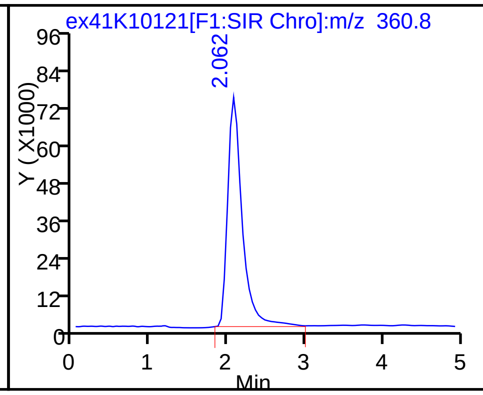
Report Date: 15-Nov-2011 07:04:56 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10121.d

Injection Date:	14-Nov-2011 13:54:12	Limit Group:	LC - 8321A Expl
Client ID:	CP45 SD015	Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	74
Operator ID:		Injection Vol:	40.00 ul

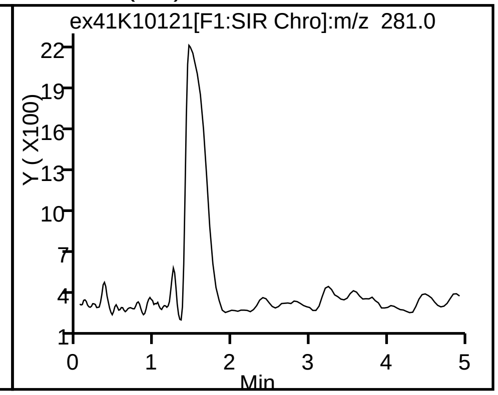
2 HMX (ND)



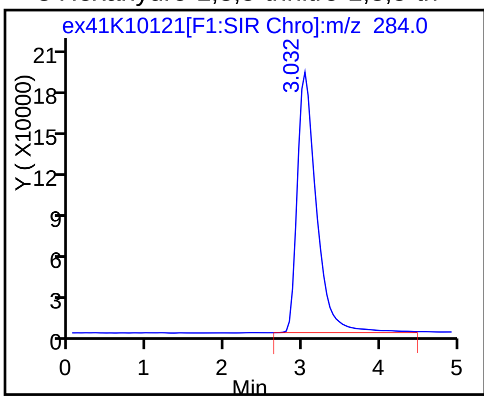
* 1 HMX-13C4



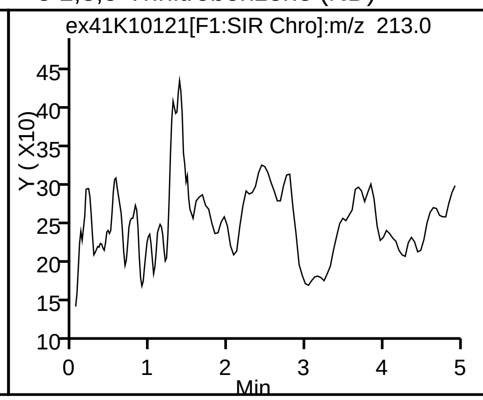
4 RDX (ND)



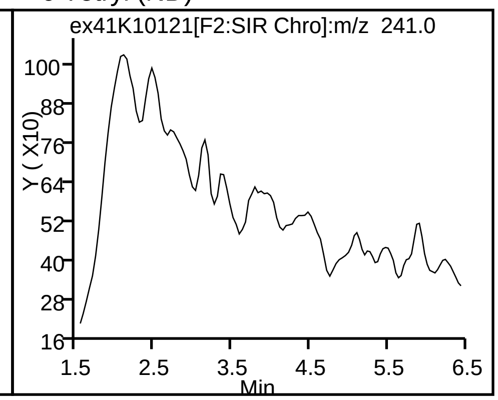
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



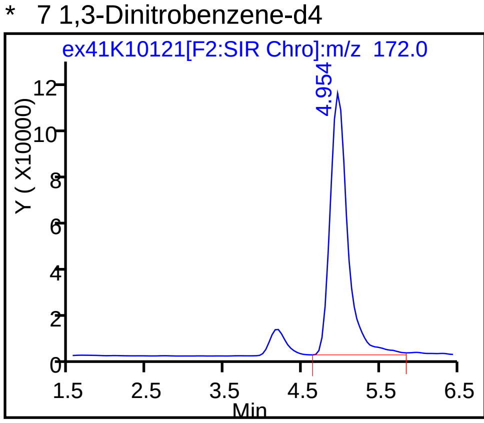
5 1,3,5-Trinitrobenzene (ND)



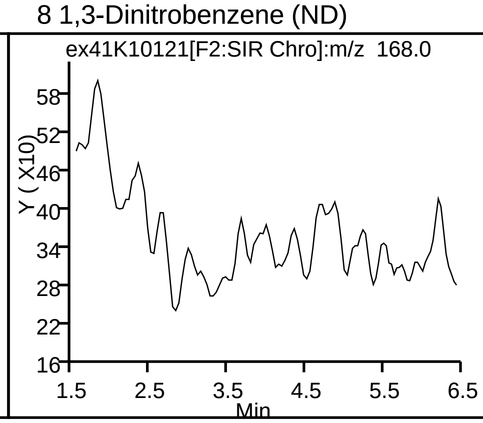
6 Tetryl (ND)



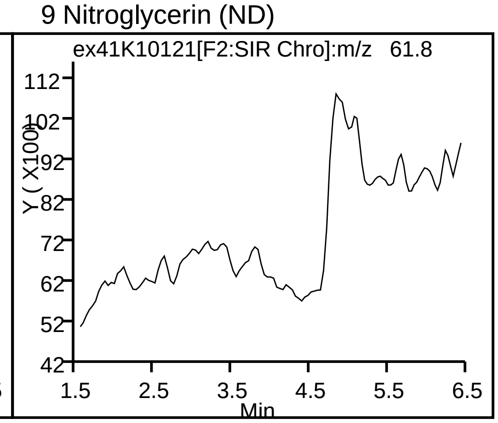
* 7 1,3-Dinitrobenzene-d4



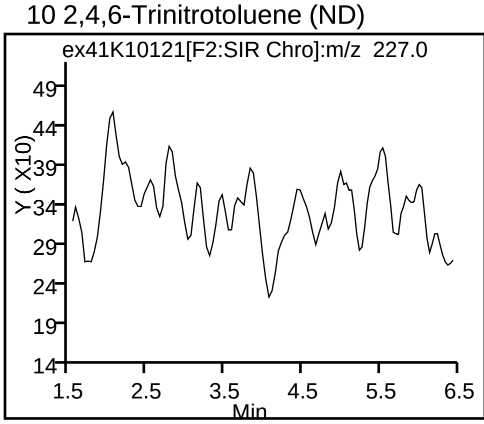
8 1,3-Dinitrobenzene (ND)



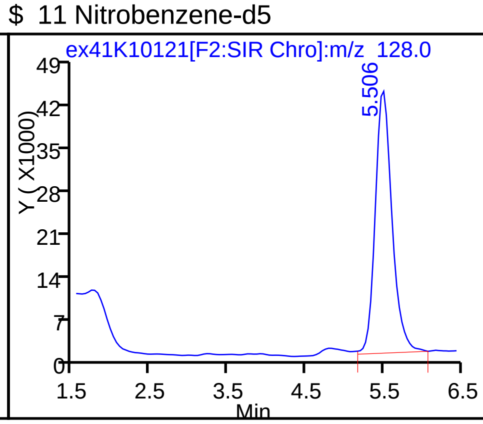
9 Nitroglycerin (ND)



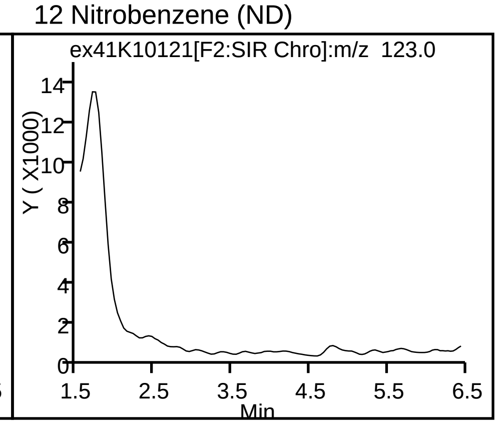
10 2,4,6-Trinitrotoluene (ND)



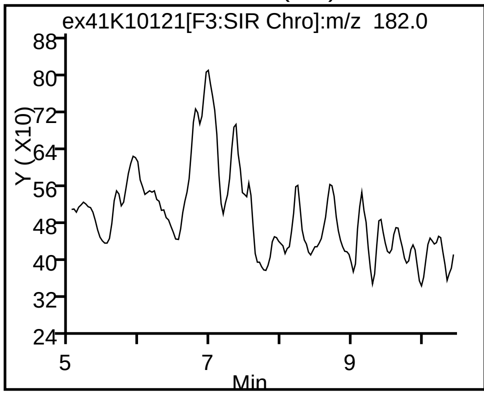
$ 11 Nitrobenzene-d5



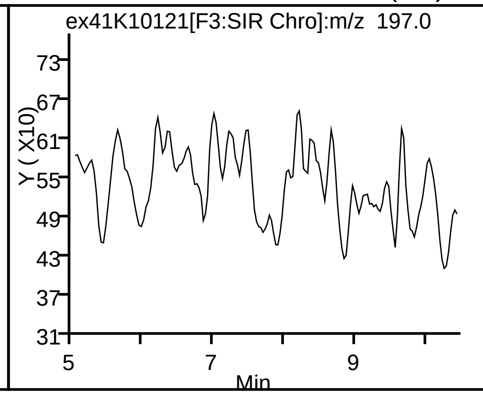
12 Nitrobenzene (ND)



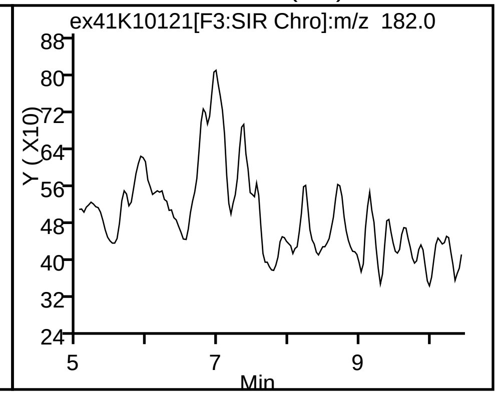
13 3,4-Dinitrotoluene (ND)



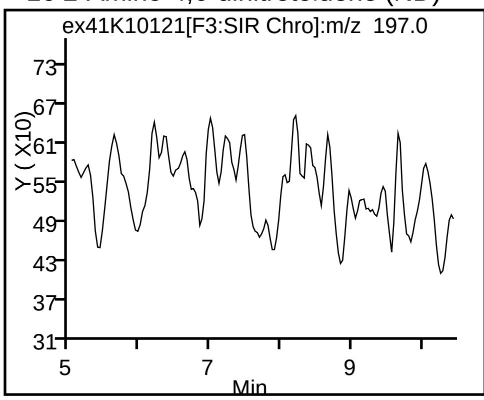
14 4-Amino-2,6-dinitrotoluene (ND)



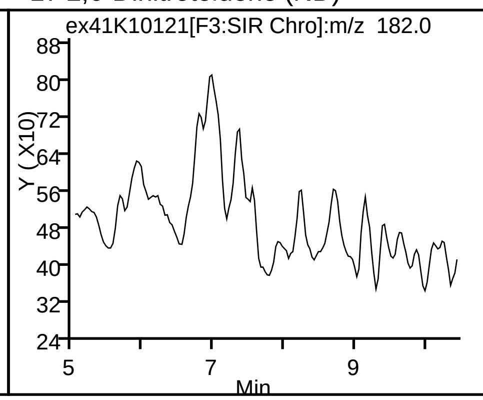
15 2,3-Dinitrotoluene (ND)



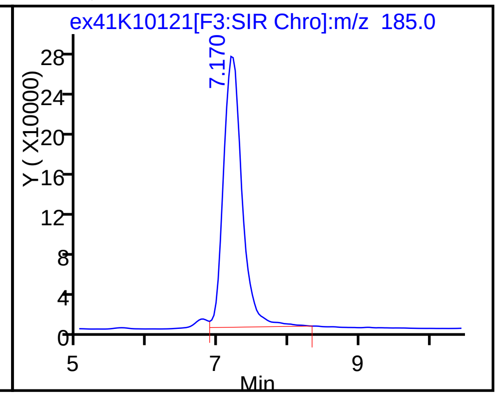
16 2-Amino-4,6-dinitrotoluene (ND)



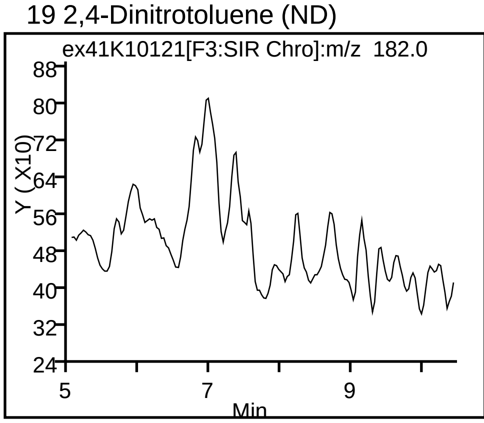
17 2,6-Dinitrotoluene (ND)



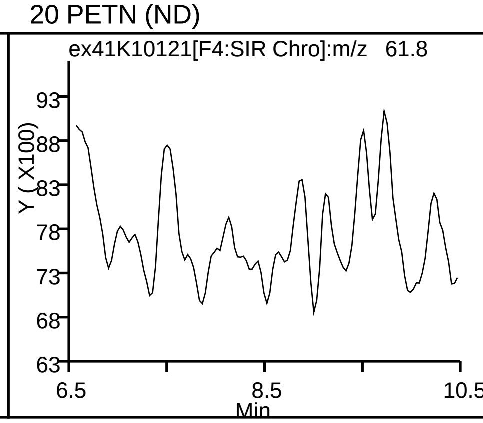
* 18 2,4-dinitrotoluene-d3



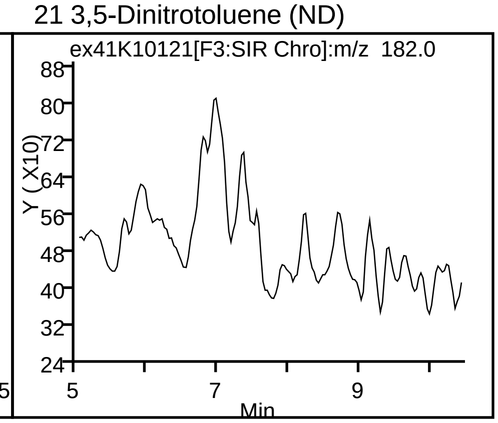
19 2,4-Dinitrotoluene (ND)



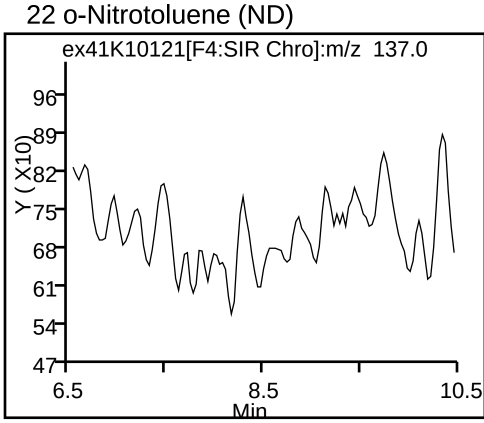
20 PETN (ND)



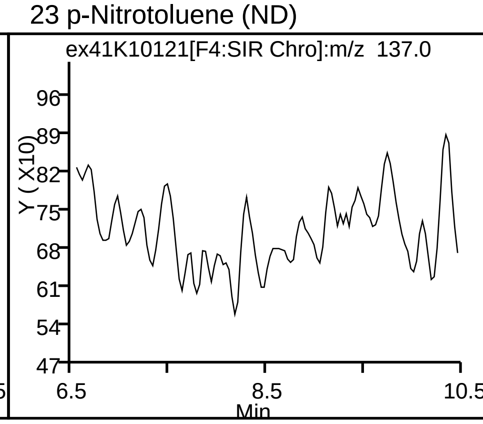
21 3,5-Dinitrotoluene (ND)



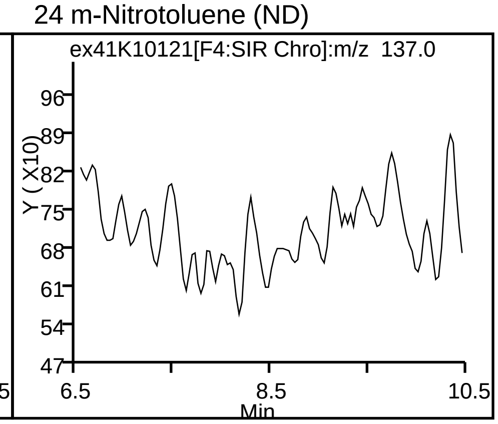
22 o-Nitrotoluene (ND)



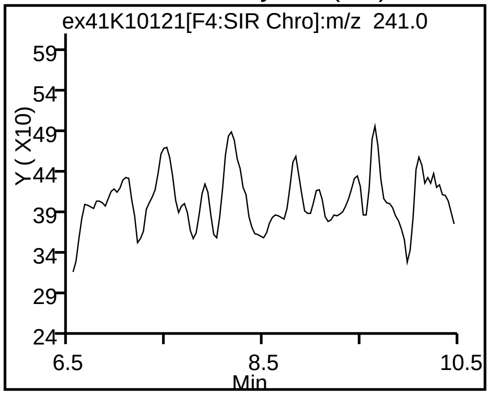
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Client Sample ID: CP45 SD016 Lab Sample ID: 280-22438-17

Matrix: Solid Lab File ID: ex41K10122.d

Analysis Method: 8321B Date Collected: 11/01/2011 15:50

Extraction Method: 8330B Date Extracted: 11/10/2011 15:50

Sample wt/vol: 10.26(g) Date Analyzed: 11/14/2011 14:06

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 96232 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	90		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10122.d		
Lims ID:	280-22438-B-17-C	Client ID:	CP45 SD016
Inject. Date:	14-Nov-2011 14:06:17	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-B-17-C 280-0002749-075		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	59
Lims Batch ID:	96232	Lims Sample ID:	75
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\8321exp4-25.m		
Last Update:	15-Nov-2011 07:04:50	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		926927	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2853256	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1763116	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										1
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	683719	88.8			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		4927294	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										1
4	61.8		7.677							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

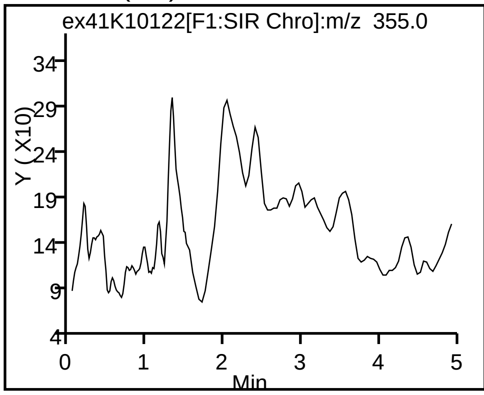
QC Flag Legend

Processing Flags
1 - Missing Peaks

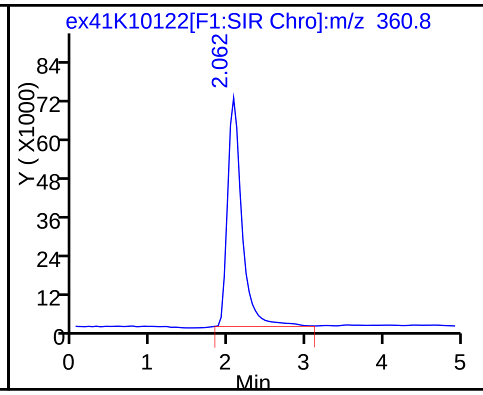
Report Date: 15-Nov-2011 07:04:57 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10122.d		
Injection Date:	14-Nov-2011 14:06:17	Limit Group:	LC - 8321A Expl
Client ID:	CP45 SD016	Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	75
Operator ID:		Injection Vol:	40.00 ul

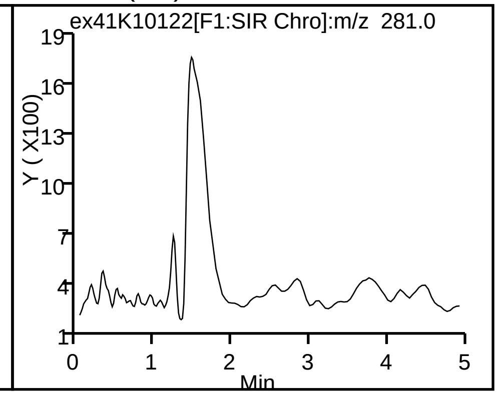
2 HMX (ND)



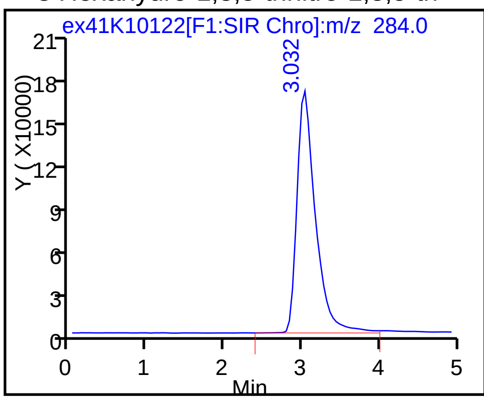
* 1 HMX-13C4



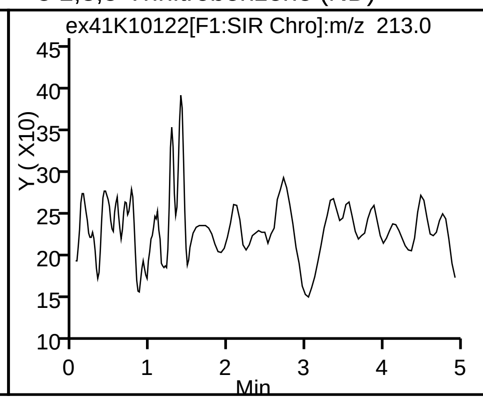
4 RDX (ND)



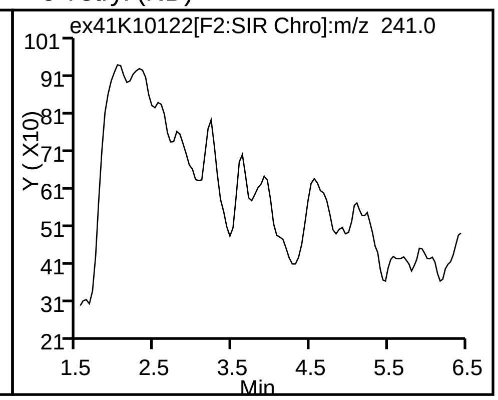
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



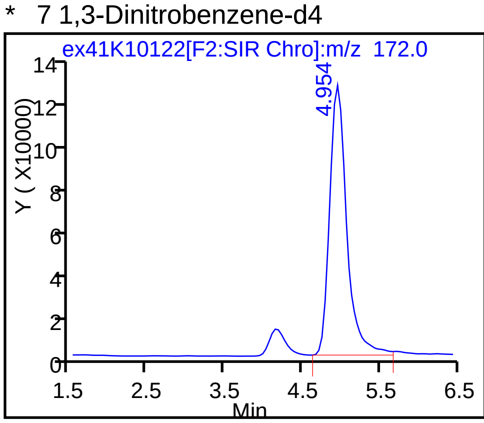
5 1,3,5-Trinitrobenzene (ND)



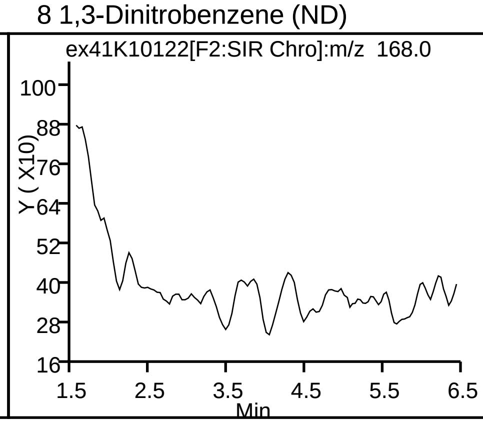
6 Tetryl (ND)



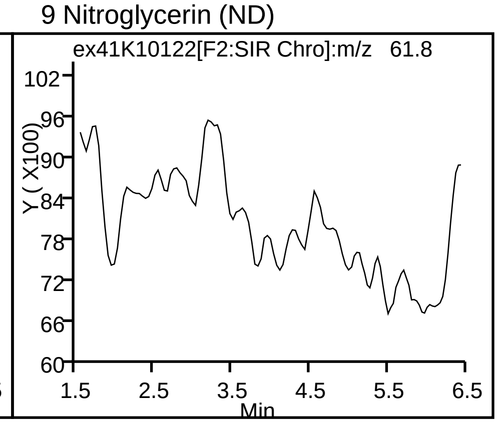
* 7 1,3-Dinitrobenzene-d4



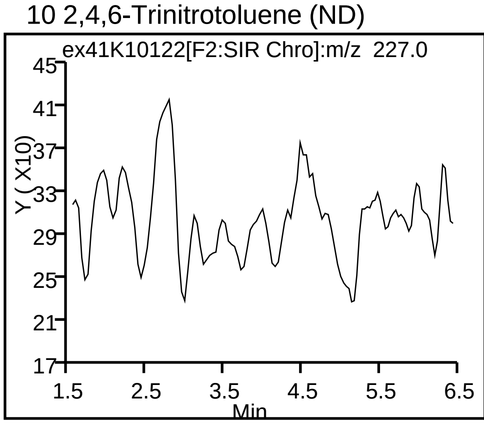
8 1,3-Dinitrobenzene (ND)



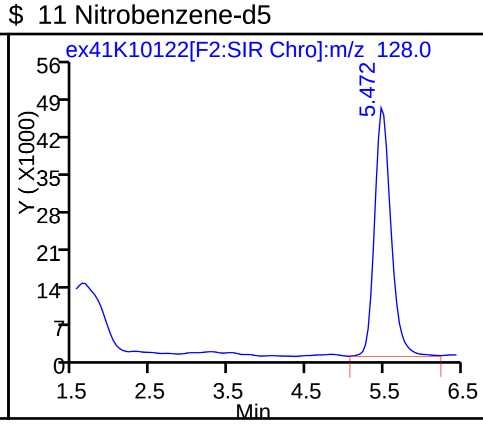
9 Nitroglycerin (ND)



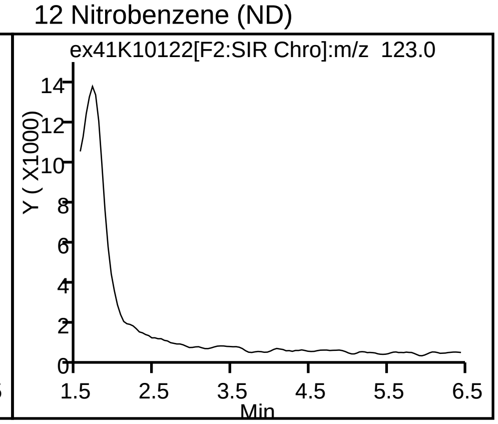
10 2,4,6-Trinitrotoluene (ND)



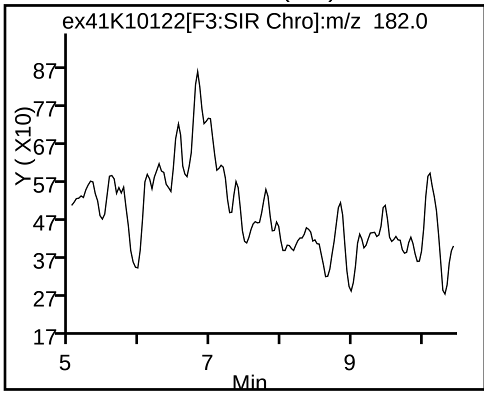
$ 11 Nitrobenzene-d5



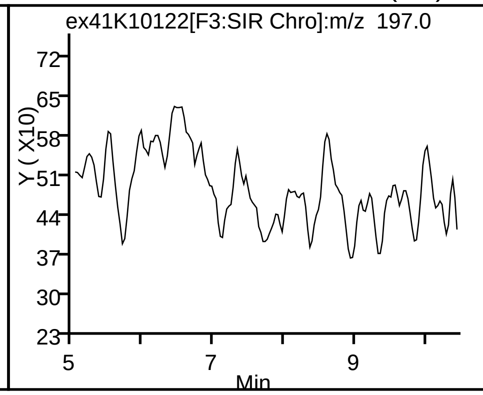
12 Nitrobenzene (ND)



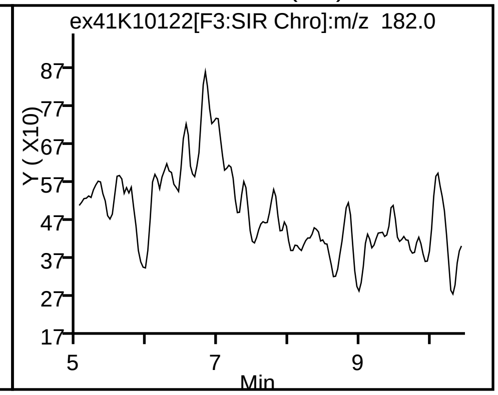
13 3,4-Dinitrotoluene (ND)



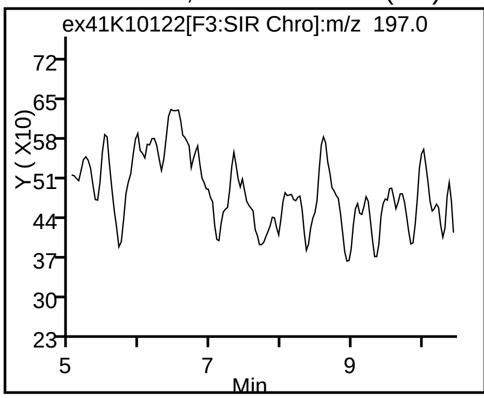
14 4-Amino-2,6-dinitrotoluene (ND)



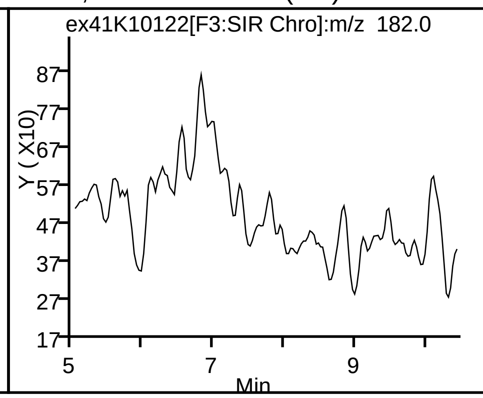
15 2,3-Dinitrotoluene (ND)



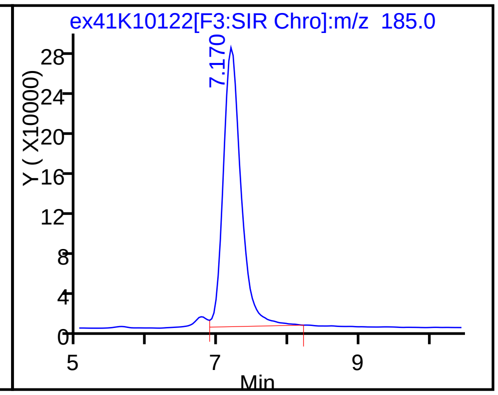
16 2-Amino-4,6-dinitrotoluene (ND)



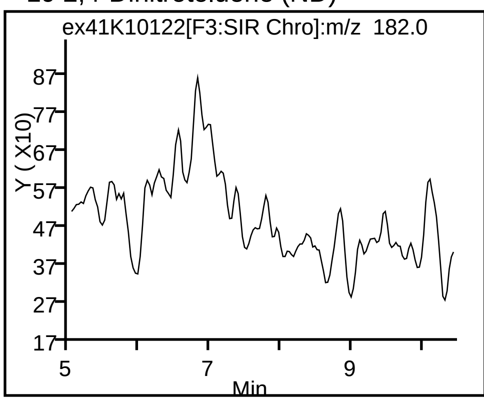
17 2,6-Dinitrotoluene (ND)



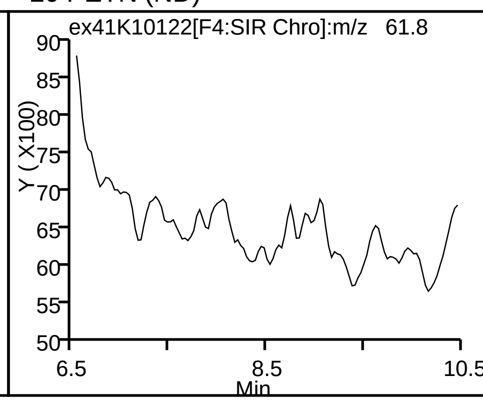
* 18 2,4-dinitrotoluene-d3



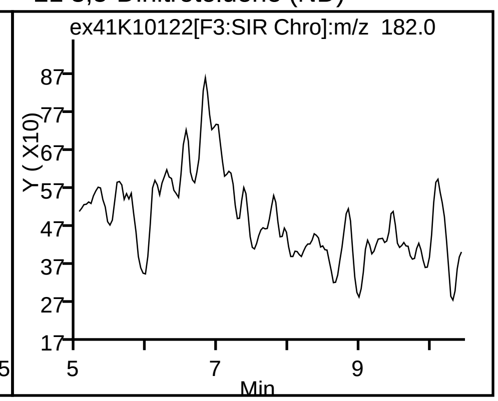
19 2,4-Dinitrotoluene (ND)



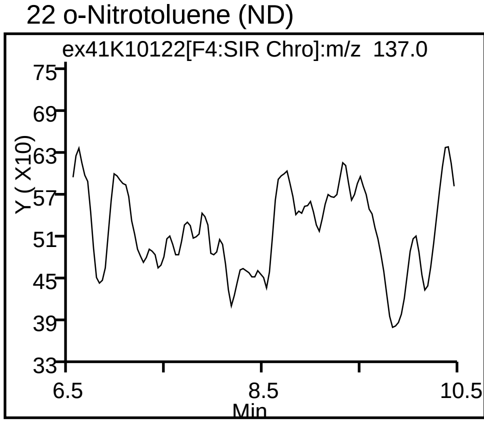
20 PETN (ND)



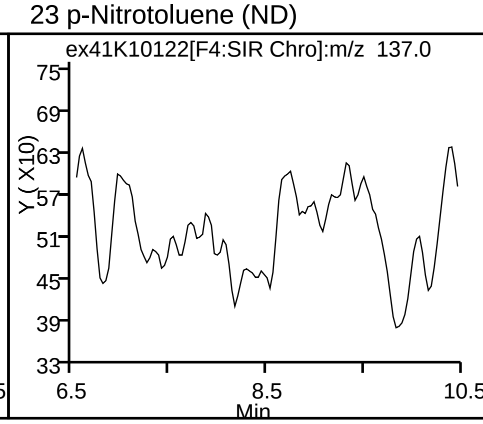
21 3,5-Dinitrotoluene (ND)



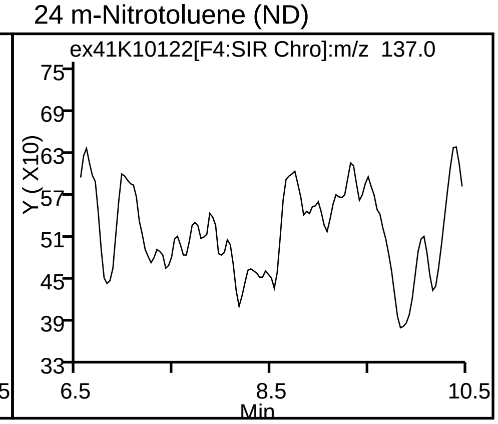
22 o-Nitrotoluene (ND)



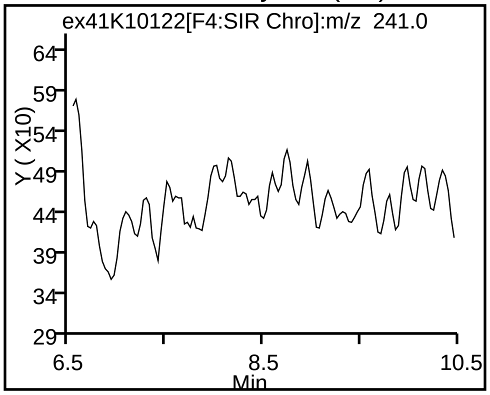
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Client Sample ID: CP46 SD017 Lab Sample ID: 280-22438-18

Matrix: Solid Lab File ID: ex41K10123.d

Analysis Method: 8321B Date Collected: 11/01/2011 15:40

Extraction Method: 8330B Date Extracted: 11/10/2011 15:50

Sample wt/vol: 10.28(g) Date Analyzed: 11/14/2011 14:18

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 96232 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.012	U	0.097	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.024	U	0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.012	U	0.097	0.012	0.0056
99-08-1	3-Nitrotoluene	0.024	U	0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.097	0.012	0.0050
99-99-0	4-Nitrotoluene	0.024	U	0.097	0.024	0.011
2691-41-0	HMX	0.012	U	0.097	0.012	0.0057
98-95-3	Nitrobenzene	0.012	U	0.097	0.012	0.011
55-63-0	Nitroglycerin	0.012	U	0.097	0.012	0.010
78-11-5	PETN	0.012	U	0.097	0.012	0.0050
121-82-4	RDX	0.012	U	0.097	0.012	0.0042
479-45-8	Tetryl	0.012	U	0.097	0.012	0.0074

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	96		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10123.d		
Lims ID:	280-22438-A-18-C	Client ID:	CP46 SD017
Inject. Date:	14-Nov-2011 14:18:22	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-A-18-C 280-0002749-076		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	60
Lims Batch ID:	96232	Lims Sample ID:	76
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\8321exp4-25.m		
Last Update:	15-Nov-2011 07:04:50	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		1000139	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2908125	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1637105	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		4.994							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.371							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	678348	94.9			
12 Nitrobenzene										1
2	123.0		5.573							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.055							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.806							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.140	0.030		5100282	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.231							
20 PETN										
4	61.8		7.677							
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.193							
23 p-Nitrotoluene										1
4	137.0		8.739							
24 m-Nitrotoluene										1
4	137.0		9.377							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

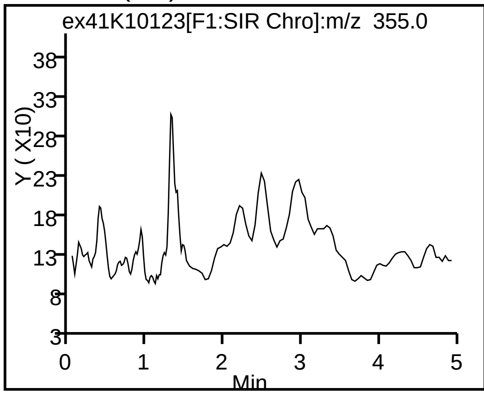
Processing Flags
1 - Missing Peaks

Report Date: 15-Nov-2011 07:04:58 Chrom Revision: 1.2 13-Jul-2011 10:43:06

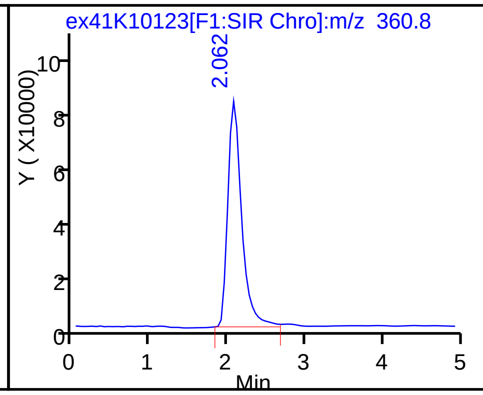
Data File: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10123.d

Injection Date:	14-Nov-2011 14:18:22	Limit Group:	LC - 8321A Expl
Client ID:	CP46 SD017	Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	76
Operator ID:		Injection Vol:	40.00 ul

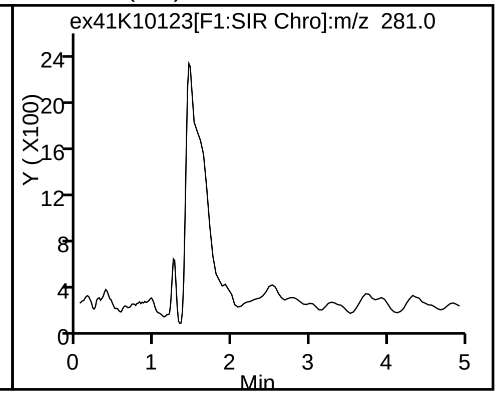
2 HMX (ND)



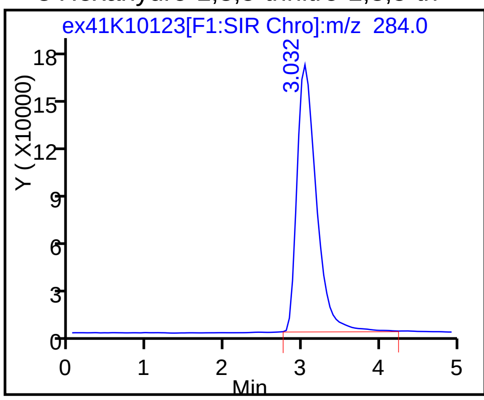
* 1 HMX-13C4



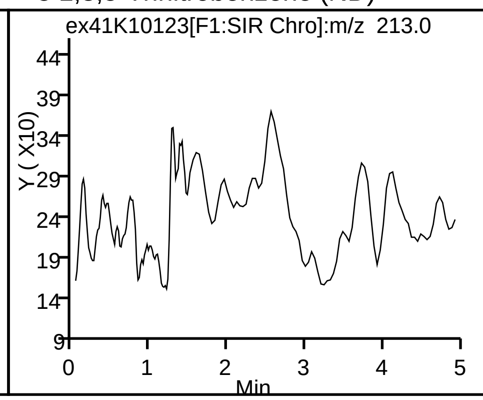
4 RDX (ND)



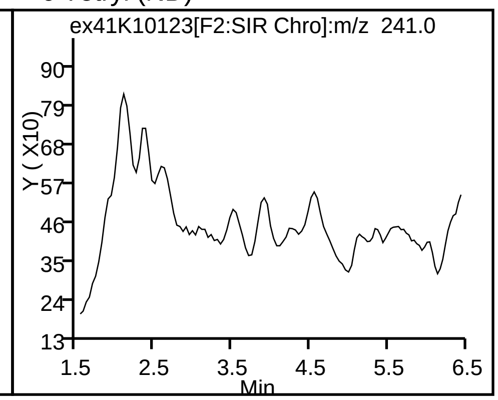
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



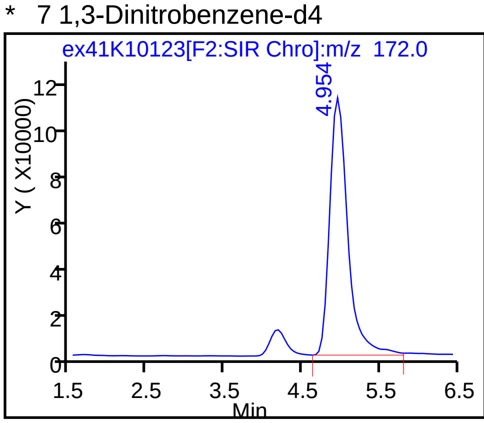
5 1,3,5-Trinitrobenzene (ND)



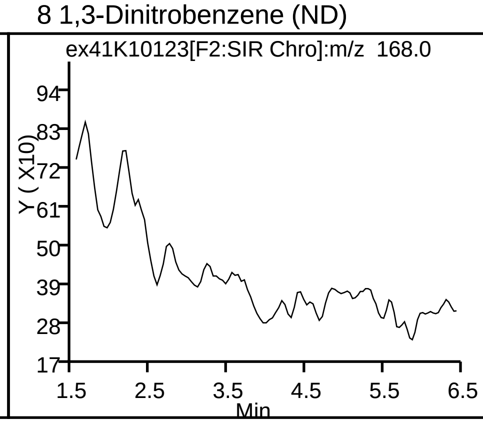
6 Tetryl (ND)



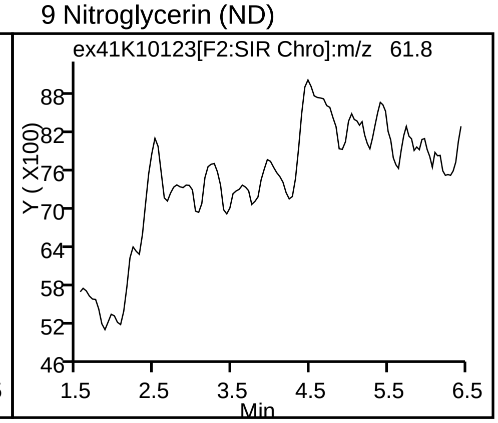
* 7 1,3-Dinitrobenzene-d4



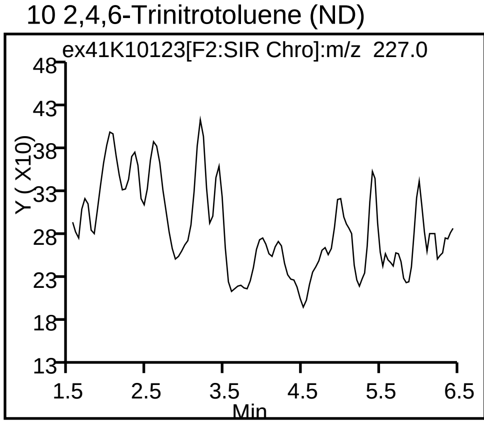
8 1,3-Dinitrobenzene (ND)



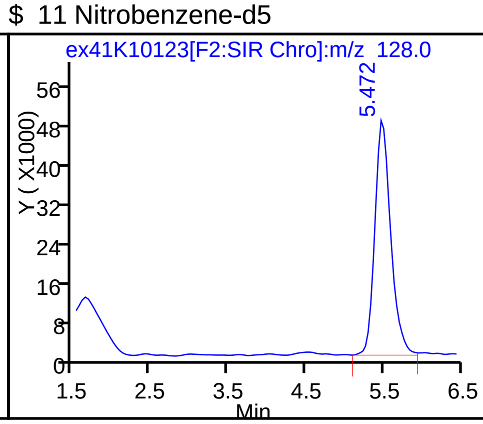
9 Nitroglycerin (ND)



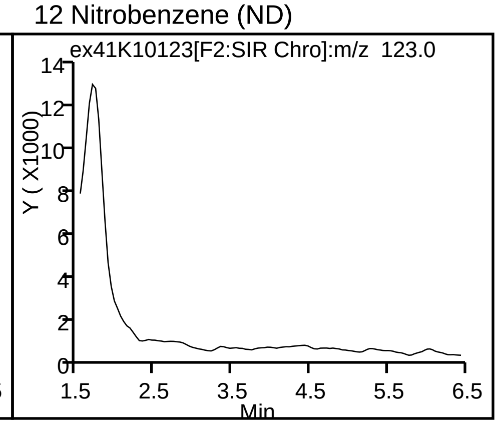
10 2,4,6-Trinitrotoluene (ND)



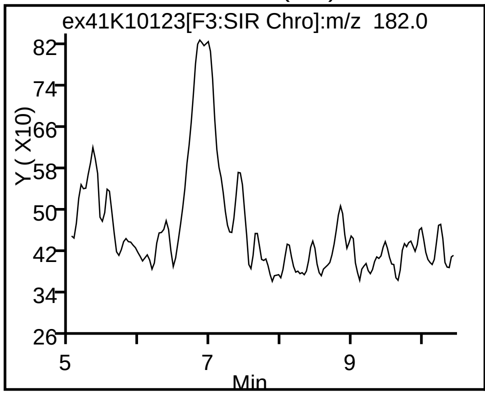
$ 11 Nitrobenzene-d5



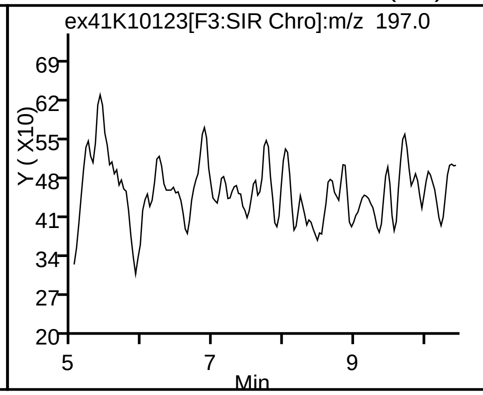
12 Nitrobenzene (ND)



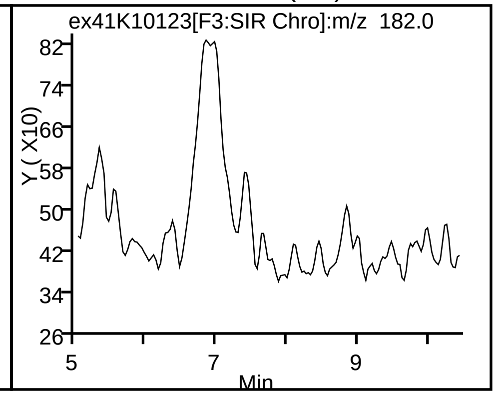
13 3,4-Dinitrotoluene (ND)



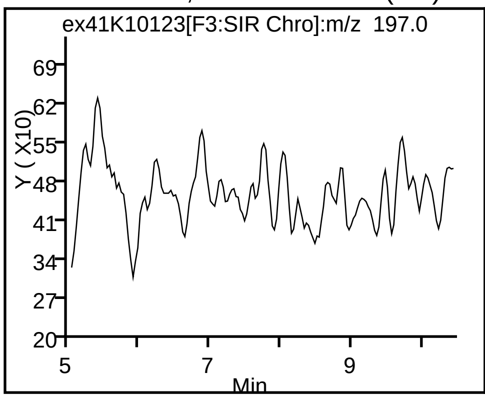
14 4-Amino-2,6-dinitrotoluene (ND)



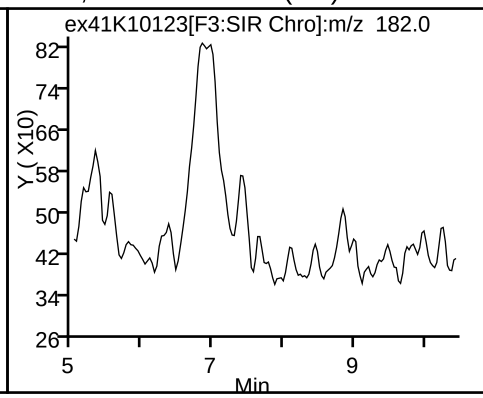
15 2,3-Dinitrotoluene (ND)



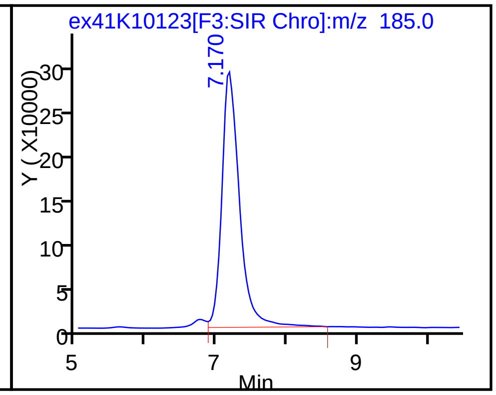
16 2-Amino-4,6-dinitrotoluene (ND)



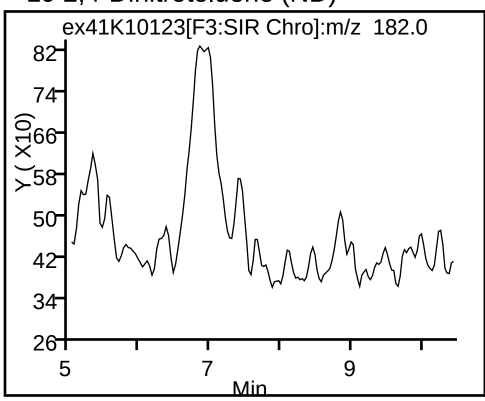
17 2,6-Dinitrotoluene (ND)



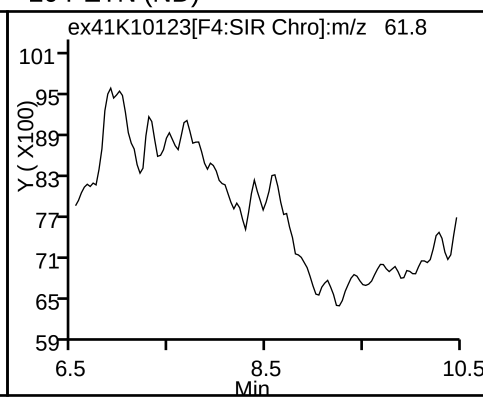
* 18 2,4-dinitrotoluene-d3



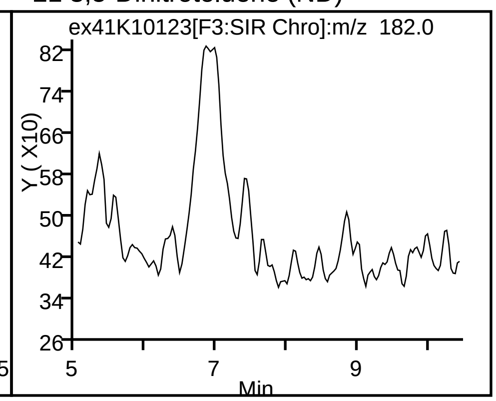
19 2,4-Dinitrotoluene (ND)



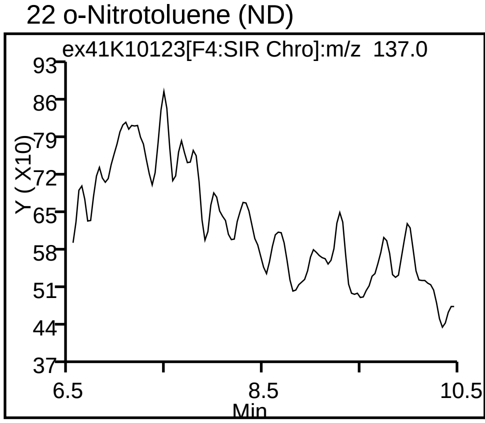
20 PETN (ND)



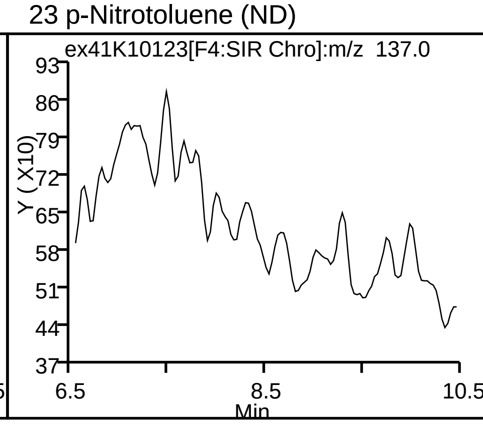
21 3,5-Dinitrotoluene (ND)



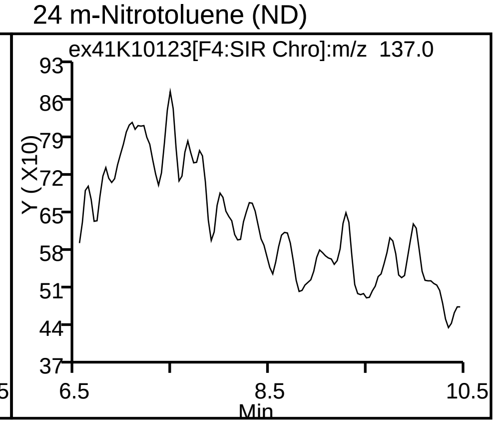
22 o-Nitrotoluene (ND)



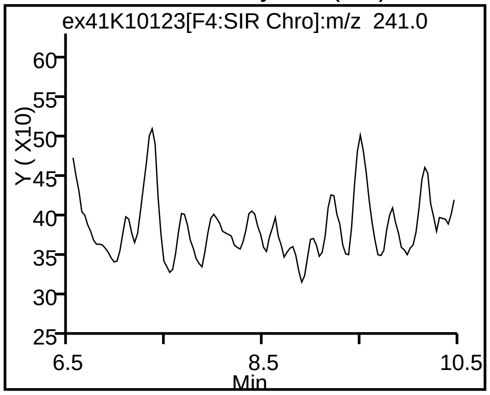
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Client Sample ID: CP47 GW015   Lab Sample ID: 280-22438-19

Matrix: Water   Lab File ID: ex41K10044.d

Analysis Method: 8321B   Date Collected: 11/01/2011 13:15

Extraction Method: 3535   Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1039.4(mL)   Date Analyzed: 11/10/2011 18:41

Con. Extract Vol.: 5(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95630   Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.048	U	0.096	0.048	0.016
99-65-0	1,3-Dinitrobenzene	0.048	U	0.096	0.048	0.013
118-96-7	2,4,6-Trinitrotoluene	0.048	U	0.096	0.048	0.021
121-14-2	2,4-Dinitrotoluene	0.048	U	0.096	0.048	0.018
606-20-2	2,6-Dinitrotoluene	0.048	U	0.096	0.048	0.021
35572-78-2	2-Amino-4,6-dinitrotoluene	0.048	U	0.096	0.048	0.020
88-72-2	2-Nitrotoluene	0.048	U	0.096	0.048	0.021
99-08-1	3-Nitrotoluene	0.048	U	0.096	0.048	0.024
19406-51-0	4-Amino-2,6-dinitrotoluene	0.048	U	0.096	0.048	0.018
99-99-0	4-Nitrotoluene	0.048	U	0.096	0.048	0.025
98-95-3	Nitrobenzene	0.048	U	0.096	0.048	0.032
55-63-0	Nitroglycerin	0.048	U	0.13	0.048	0.043
78-11-5	PETN	0.048	U	0.096	0.048	0.017
121-82-4	RDX	0.048	U	0.096	0.048	0.020
479-45-8	Tetryl	0.048	U	0.096	0.048	0.020

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	63		48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10044.d
Lims ID: 280-22438-B-19-B Client ID: CP47 GW015
Inject. Date: 10-Nov-2011 18:41:57 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: 280-22438-B-19-B 280-0002741-042
Misc. Info.: ex41K10 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 58
Lims Batch ID: 95630 Lims Sample ID: 42
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m
Last Update: 11-Nov-2011 06:40:36 Calib Date: 10-Nov-2011 11:34:20
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

First Level Reviewer: meyera Date: 11-Nov-2011 06:36:30

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										s
1	360.8	2.062	2.062	0.000		363674	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		1973271	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1931337	258.7			
8 1,3-Dinitrobenzene										
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.472	0.068	1.109	528533	62.7			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.261	7.170	0.091		4529624	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0		8.223							
23 p-Nitrotoluene										
4	137.0		8.770							
24 m-Nitrotoluene										
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

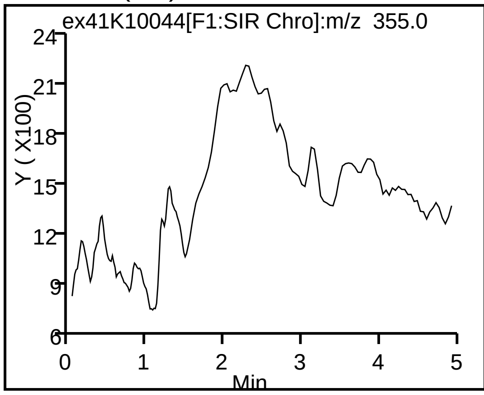
QC Flag Legend

Processing Flags
1 - Missing Peaks
s - Failed ISTD Recovery Test

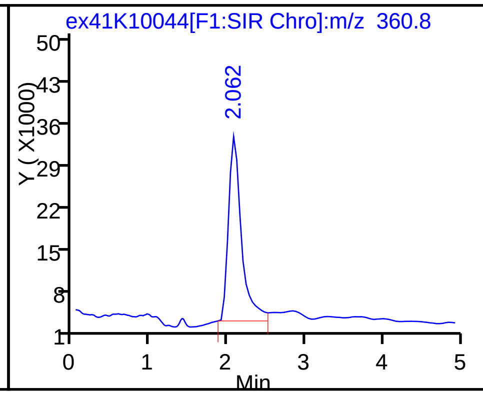
Report Date: 11-Nov-2011 06:40:41 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10044.d

Injection Date:	10-Nov-2011 18:41:57	Limit Group:	LC - 8321A Expl
Client ID:	CP47 GW015	Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	42
Operator ID:		Injection Vol:	40.00 ul

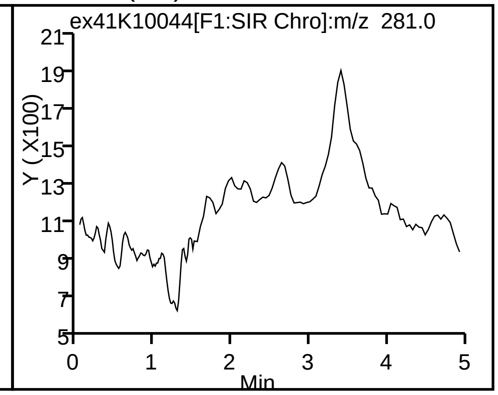
2 HMX (ND)



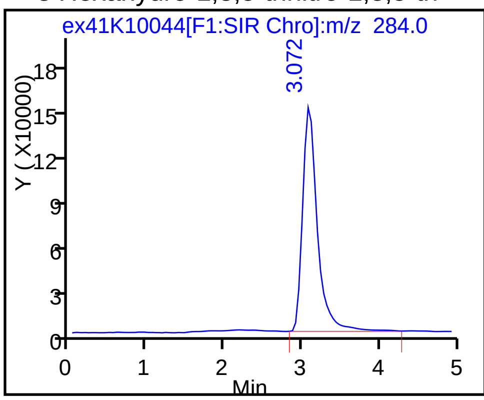
* 1 HMX-13C4



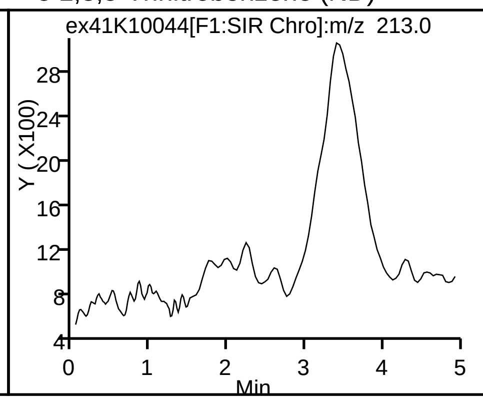
4 RDX (ND)



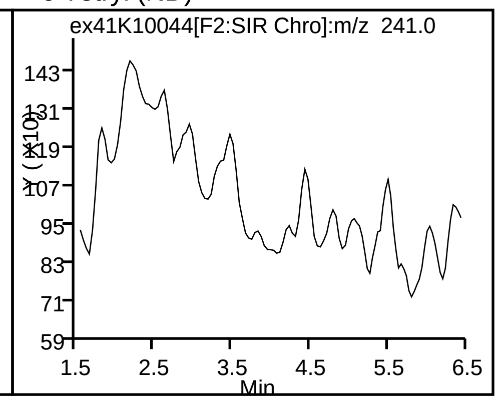
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



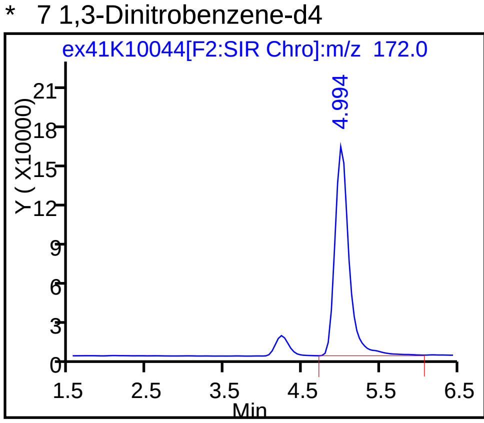
5 1,3,5-Trinitrobenzene (ND)



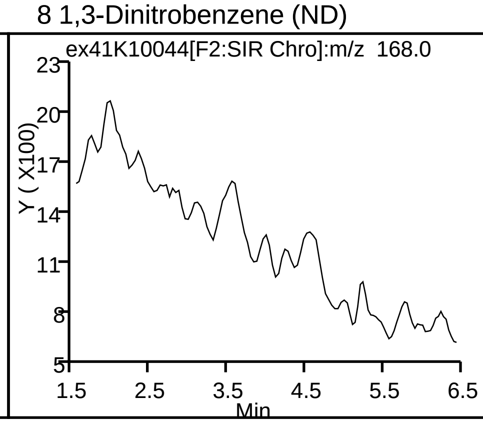
6 Tetryl (ND)



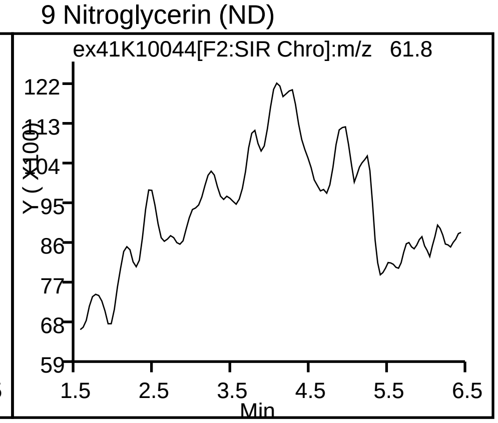
* 7 1,3-Dinitrobenzene-d4



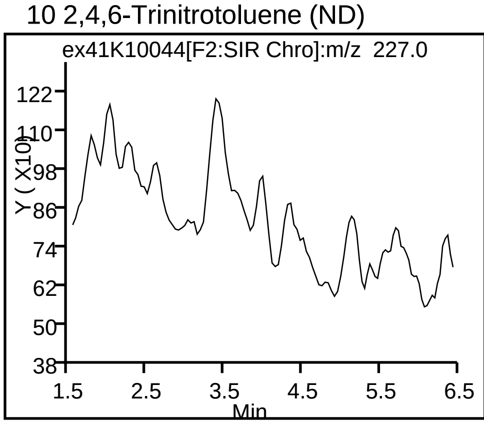
8 1,3-Dinitrobenzene (ND)



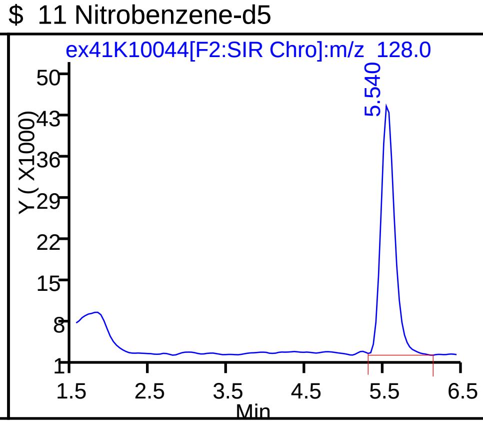
9 Nitroglycerin (ND)



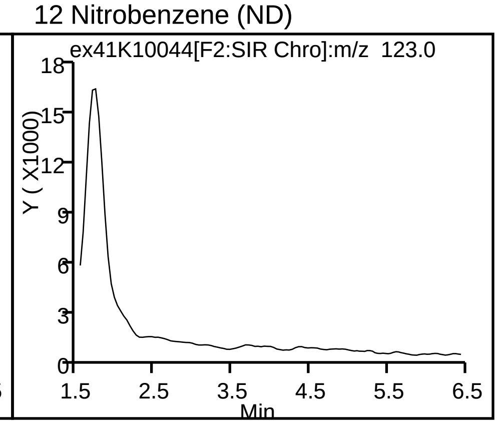
10 2,4,6-Trinitrotoluene (ND)



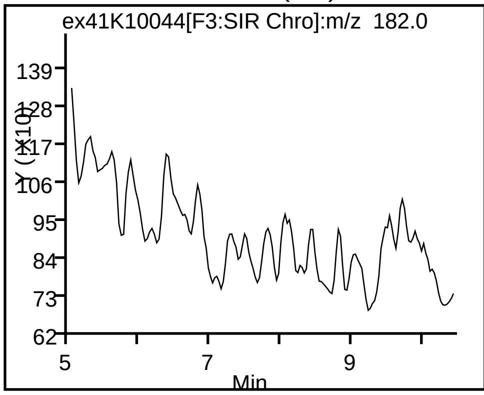
$ 11 Nitrobenzene-d5



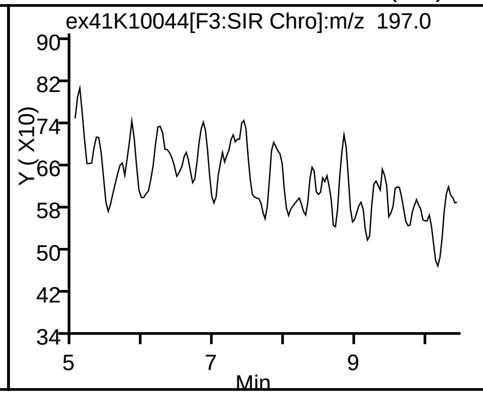
12 Nitrobenzene (ND)



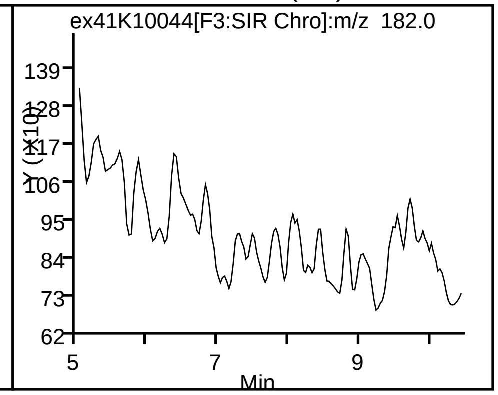
13 3,4-Dinitrotoluene (ND)



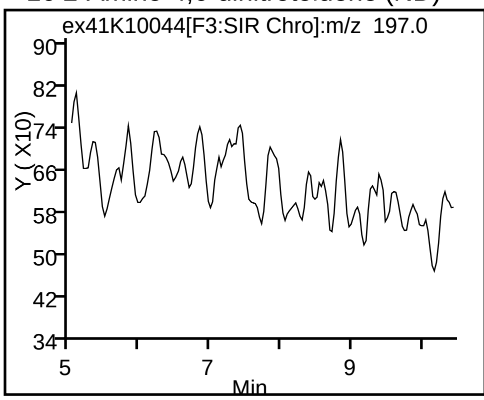
14 4-Amino-2,6-dinitrotoluene (ND)



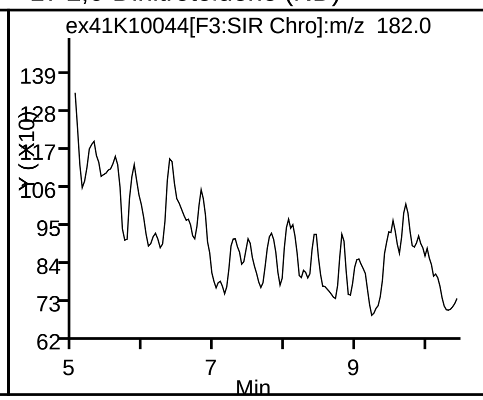
15 2,3-Dinitrotoluene (ND)



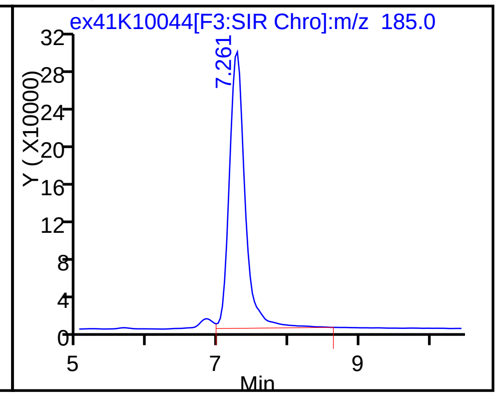
16 2-Amino-4,6-dinitrotoluene (ND)



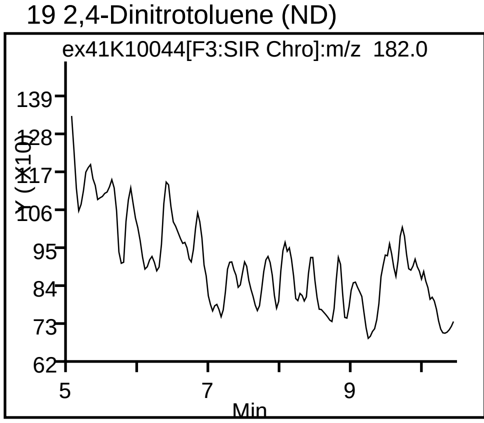
17 2,6-Dinitrotoluene (ND)



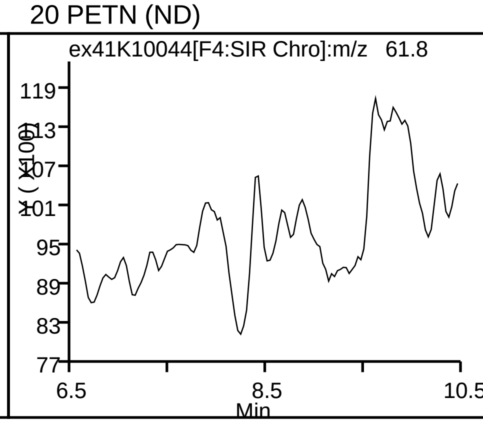
* 18 2,4-dinitrotoluene-d3



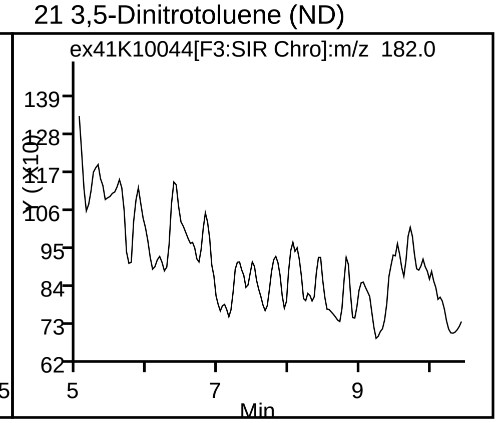
19 2,4-Dinitrotoluene (ND)



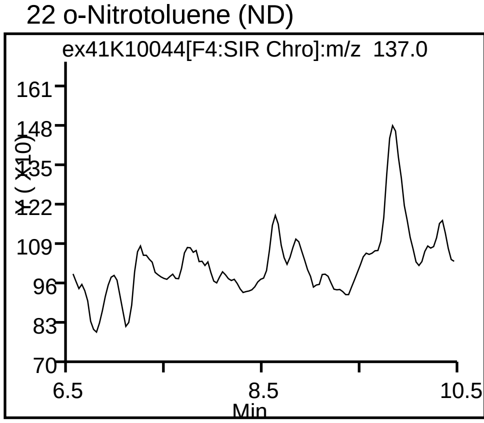
20 PETN (ND)



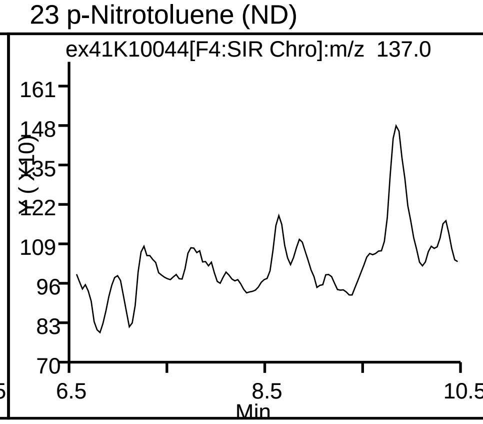
21 3,5-Dinitrotoluene (ND)



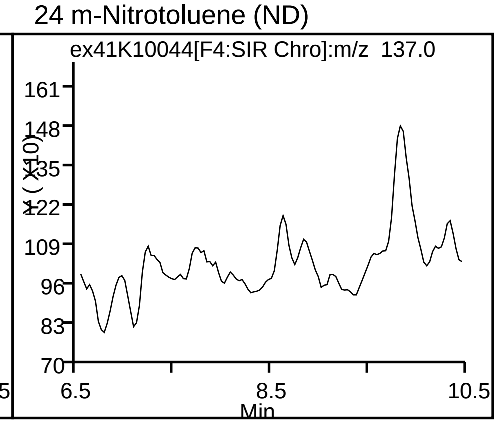
22 o-Nitrotoluene (ND)



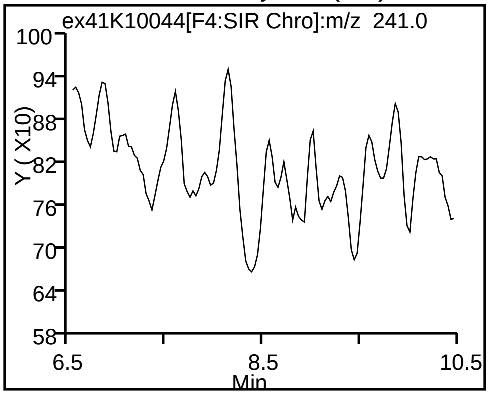
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG No.:

Client Sample ID: CP47 GW015 DL | Lab Sample ID: 280-22438-19 DL

Matrix: Water | Lab File ID: ex41K10029.d

Analysis Method: 8321B | Date Collected: 11/01/2011 13:15

Extraction Method: 3535 | Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1039.4(mL) | Date Analyzed: 11/10/2011 15:39

Con. Extract Vol.: 5(mL) | Dilution Factor: 5

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
2691-41-0	HMX	0.24	U	0.48	0.24	0.091

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	89	D	48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10029.d		
Lims ID:	280-22438-B-19-B	Client ID:	CP47 GW015
Inject. Date:	10-Nov-2011 15:39:22	Dil. Factor:	5.0000
Sample Type:	Client		
Sample ID:	280-22438-B-19-B 5x 280-0002741-027		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	71
Lims Batch ID:	95629	Lims Sample ID:	27
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:25	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		677094	250.0			
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2575245	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1882265	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	144004	17.5			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.231	7.201	0.030		5085001	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

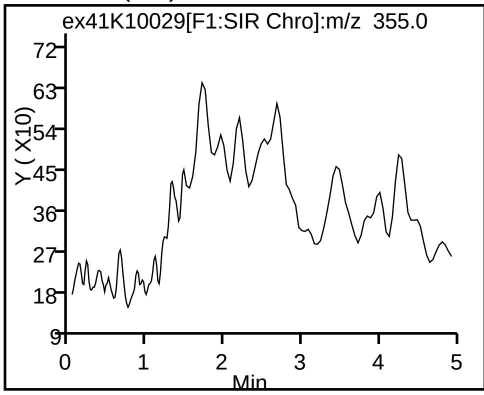
Processing Flags
1 - Missing Peaks

Report Date: 11-Nov-2011 06:40:31 Chrom Revision: 1.2 13-Jul-2011 10:43:06

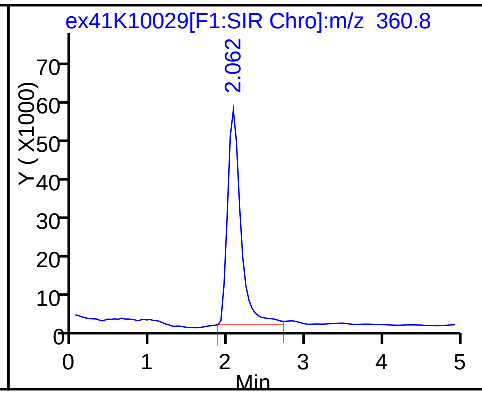
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10029.d

Injection Date:	10-Nov-2011 15:39:22	Limit Group:	LC - 8321A Expl
Client ID:	CP47 GW015	Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	27
Operator ID:		Injection Vol:	40.00 ul

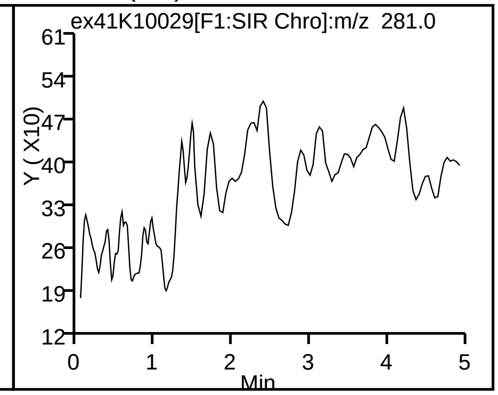
2 HMX (ND)



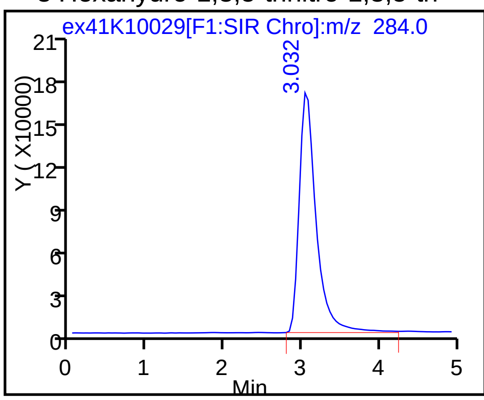
* 1 HMX-13C4



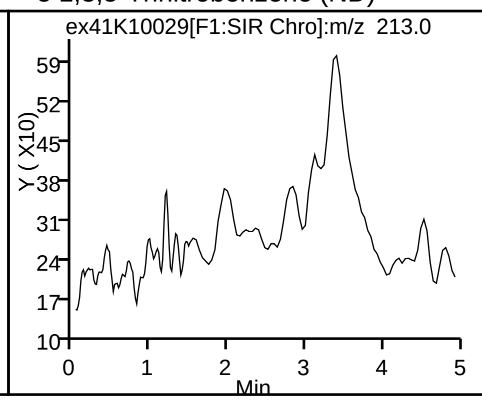
4 RDX (ND)



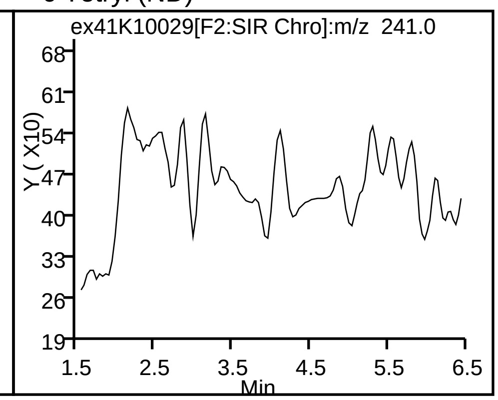
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



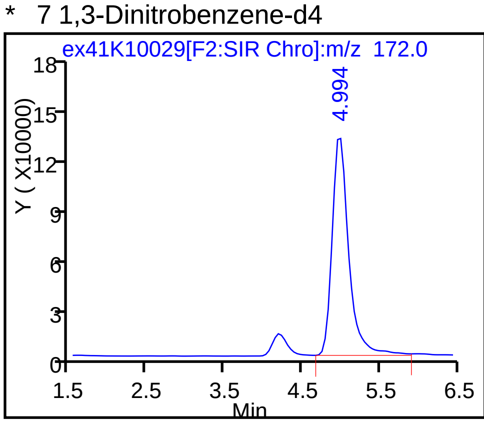
5 1,3,5-Trinitrobenzene (ND)



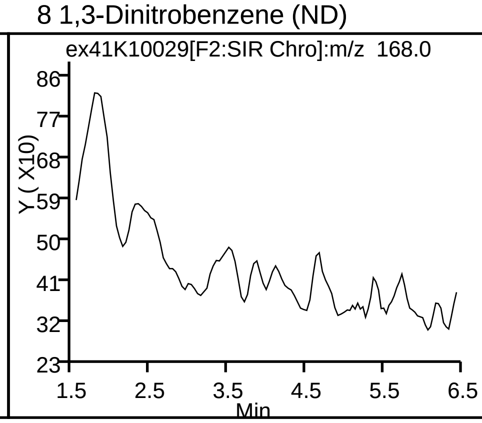
6 Tetryl (ND)



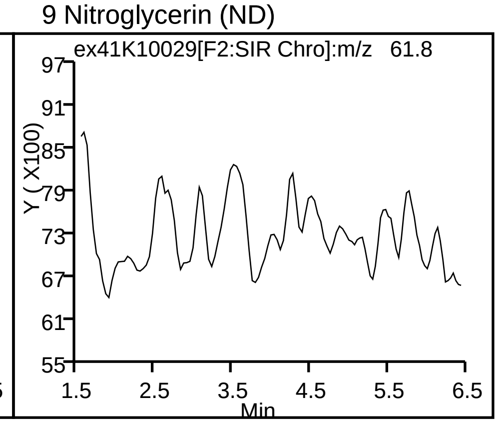
* 7 1,3-Dinitrobenzene-d4



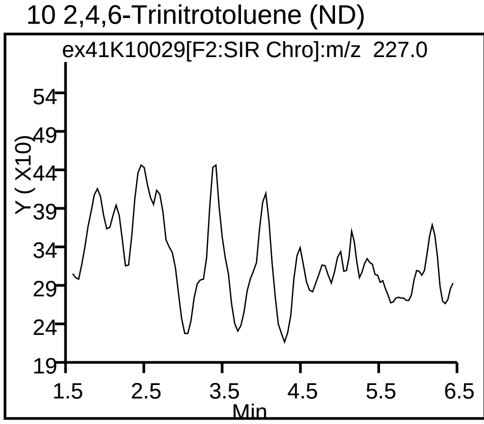
8 1,3-Dinitrobenzene (ND)



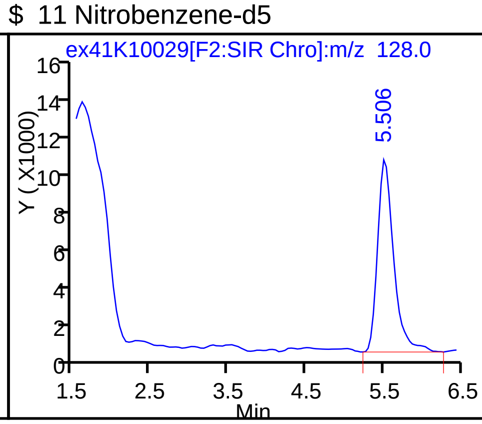
9 Nitroglycerin (ND)



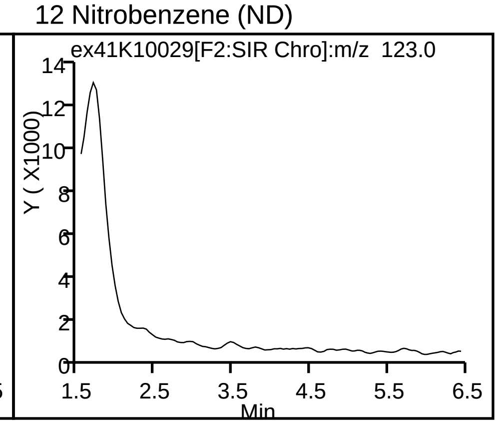
10 2,4,6-Trinitrotoluene (ND)



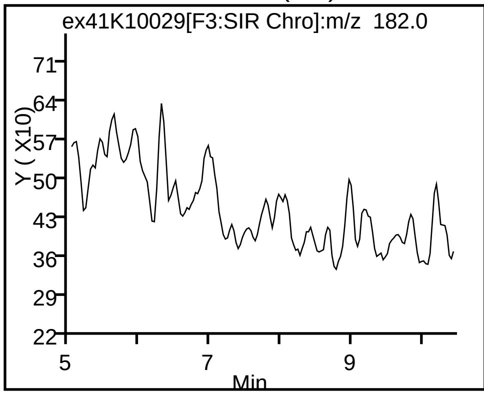
$ 11 Nitrobenzene-d5



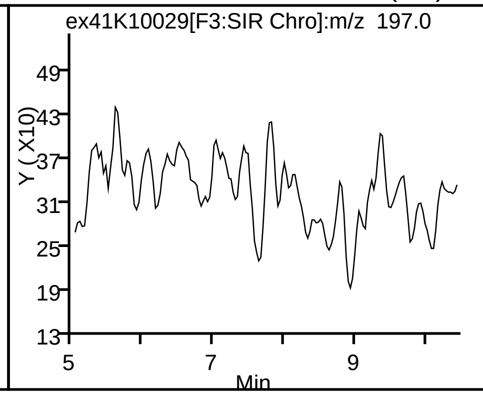
12 Nitrobenzene (ND)



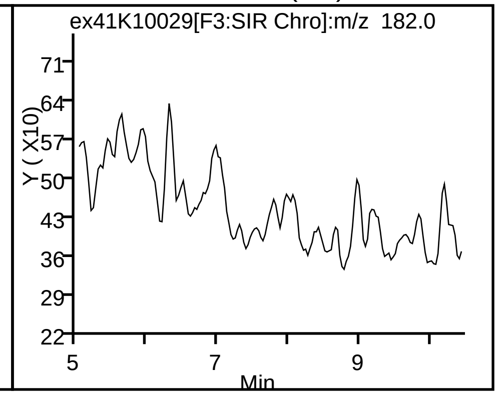
13 3,4-Dinitrotoluene (ND)



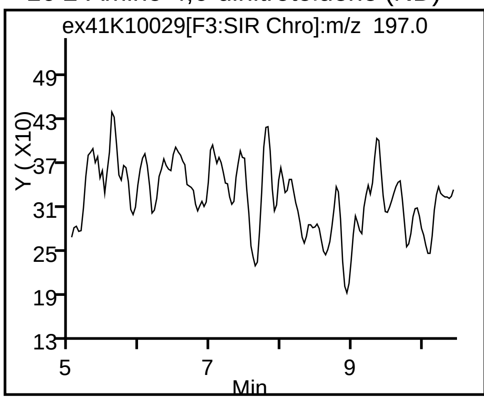
14 4-Amino-2,6-dinitrotoluene (ND)



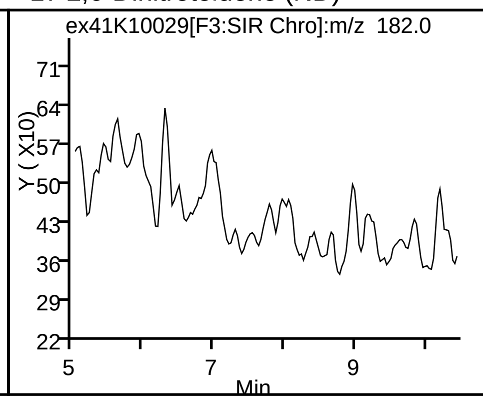
15 2,3-Dinitrotoluene (ND)



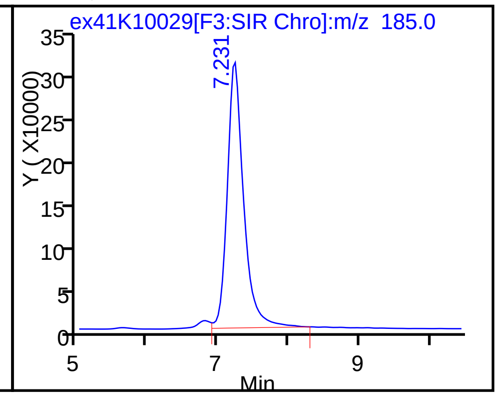
16 2-Amino-4,6-dinitrotoluene (ND)



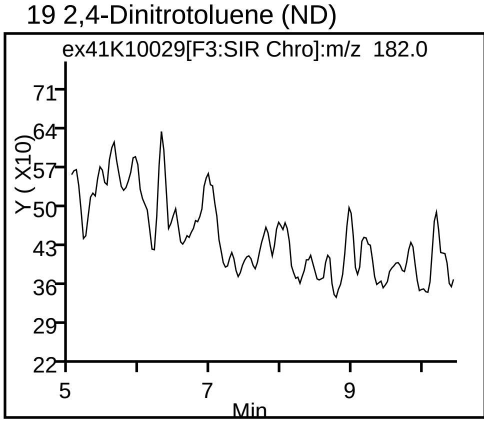
17 2,6-Dinitrotoluene (ND)



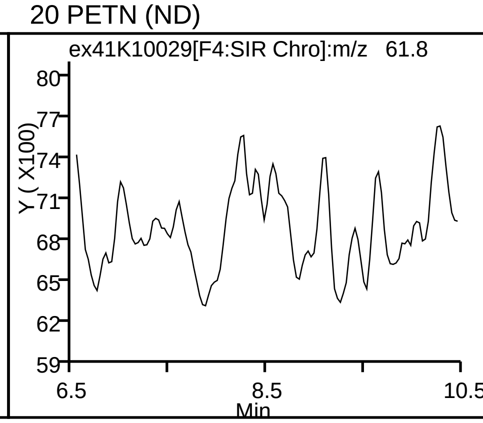
* 18 2,4-dinitrotoluene-d3



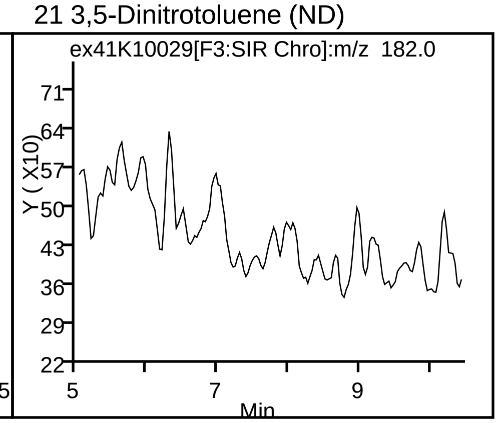
19 2,4-Dinitrotoluene (ND)



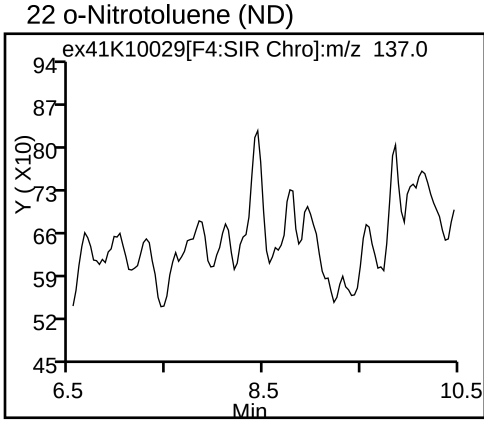
20 PETN (ND)



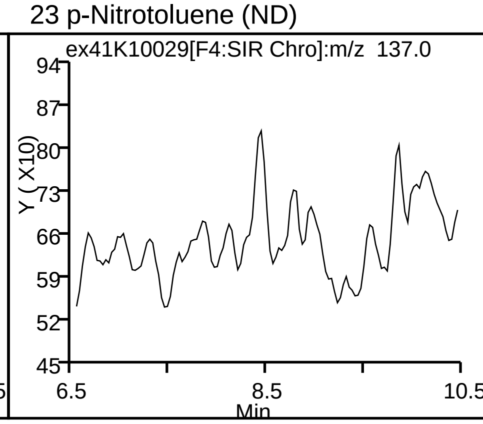
21 3,5-Dinitrotoluene (ND)



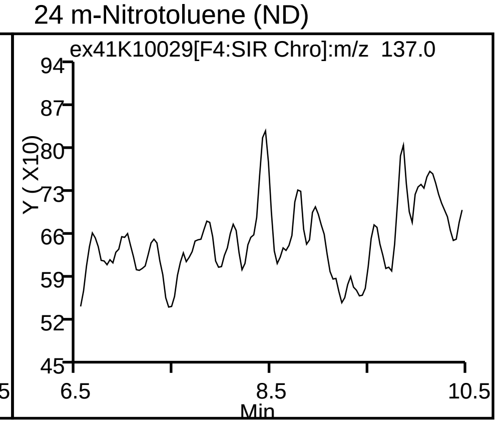
22 o-Nitrotoluene (ND)



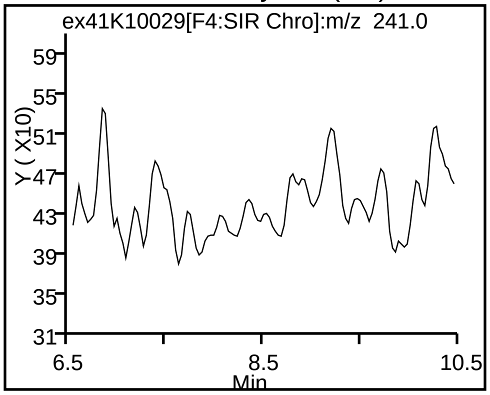
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver   Job No.: 280-22438-1   Analy Batch No.: 95626

SDG No.:

Instrument ID: LC_LCMS4   GC Column: IonPac   ID: 2(mm)   Heated Purge: (Y/N) N

Calibration Start Date: 11/10/2011 10:21   Calibration End Date: 11/10/2011 11:34   Calibration ID: 7774

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 280-95626/1	ex41K10003.d
Level 2	STD010 280-95626/2	ex41K10004.d
Level 3	STD025 280-95626/3	ex41K10005.d
Level 4	STD050 280-95626/4	ex41K10006.d
Level 5	STD100 280-95626/5	ex41K10007.d
Level 6	STD200 280-95626/6	ex41K10008.d
Level 7	STD300 280-95626/7	ex41K10009.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
HMX	2.4330 2.0979	2.0602 2.0967	2.0973	2.0396	1.9368	Lin1	0.8454	2.0631							0.9990		0.9900
RDX	1.0130 0.9065	0.9156 0.9680	1.0344	1.0001	0.9811	Lin1	0.3986	0.9523							0.9980		0.9900
1,3,5-Trinitrobenzene	0.8423 1.0511	0.8361 1.0941	0.9916	0.9102	0.9639	Lin1	-1.928	1.0598							0.9970		0.9900
Tetryl	1.1025 1.3927	0.9735 1.2795	1.0923	1.0141	1.2815	Lin1	-2.685	1.3084							0.9940		0.9900
1,3-Dinitrobenzene	1.0956 1.0809	1.0191 1.1480	1.0366	0.9803	1.0321	Lin1	-0.860	1.1020							0.9970		0.9900
Nitroglycerin	6.2971 6.3330	6.1092 6.1139	6.8165	6.8053	6.4945	Lin1	2.6160	6.2833							0.9990		0.9900
2,4,6-Trinitrotoluene	4.3641 4.6390	3.9293 5.1366	4.4821	4.4383	5.0176	Lin1	-6.961	4.9486							0.9970		0.9900
Nitrobenzene	0.9808 0.9322	0.7509 0.9267	0.8144	0.7589	0.8884	Lin1	-0.905	0.9136							0.9970		0.9900
4-Amino-2,6-dinitrotoluene	1.1015 1.3083	1.4144 1.4044	1.0711	1.4037	1.2258	Lin1	-1.369	1.3506							0.9960		0.9900
2-Amino-4,6-dinitrotoluene	1.6985 1.8553	1.8958 1.9717	1.8104	2.1404	1.7695	Lin1	-0.788	1.9199							0.9970		0.9900
2,6-Dinitrotoluene	2.2806 2.5562	2.4642 2.6334	2.4567	2.6421	2.3693	Lin1	-1.731	2.5795							0.9990		0.9900
2,4-Dinitrotoluene	1.0846 1.3267	1.2241 1.2636	1.2004	1.3344	1.3001	Lin1	-0.924	1.2975							0.9990		0.9900
PETN	2.5508 2.2267	2.5238 2.2298	2.5665	2.7091	2.2613	Lin1	3.4395	2.2520							0.9970		0.9900
2-Nitrotoluene	0.4391 0.5168	0.5144 0.5609	0.4874	0.5247	0.4943	Lin1	-0.592	0.5377							0.9970		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-22438-1 Analy Batch No.: 95626

SDG No.:

Instrument ID: LC_LCMS4 GC Column: IonPac ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/10/2011 10:21 Calibration End Date: 11/10/2011 11:34 Calibration ID: 7774

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Nitrotoluene	0.3767 0.4517	0.4207 0.4932	0.4194	0.4388	0.4177	Lin1	-0.692	0.4688							0.9960		0.9900
3-Nitrotoluene	0.2551 0.2771	0.2848 0.3088	0.2788	0.2909	0.2656	Lin1	-0.227	0.2925							0.9960		0.9900
Nitrobenzene-d5	1.2296 1.1041	1.0262 1.1602	1.2265	1.0455	1.1098	Lin1	-0.010	1.1294							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-22438-1 Analy Batch No.: 95626

SDG No.:

Instrument ID: LC_LCMS4 GC Column: IonPac ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/10/2011 10:21 Calibration End Date: 11/10/2011 11:34 Calibration ID: 7774

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 280-95626/1	ex41K10003.d
Level 2	STD010 280-95626/2	ex41K10004.d
Level 3	STD025 280-95626/3	ex41K10005.d
Level 4	STD050 280-95626/4	ex41K10006.d
Level 5	STD100 280-95626/5	ex41K10007.d
Level 6	STD200 280-95626/6	ex41K10008.d
Level 7	STD300 280-95626/7	ex41K10009.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
HMX	HXC4	Lin1	42679 1059766	70974 1398185	150748	339681	559636	5.00 200	10.0 300	25.0	50.0	100
RDX	HHTT	Lin1	60709 1764928	102819 2420123	267604	590097	1001886	4.94 197	9.87 296	24.7	49.4	98.7
1,3,5-Trinitrobenzene	DNB4	Lin1	32103 1435163	66749 2180559	159615	358761	637926	5.01 200	10.0 300	25.0	50.1	100
Tetryl	DNB4	Lin1	41725 1888316	77172 2532265	174591	396931	842247	4.97 199	9.94 298	24.9	49.7	99.4
1,3-Dinitrobenzene	DNB4	Lin1	42296 1494979	82415 2317734	169019	391390	691970	5.07 203	10.1 304	25.4	50.7	101
Nitroglycerin	DNB4	Lin1	239756 8638301	487217 12173102	1096117	2679639	4294053	5.00 200	10.0 300	25.0	50.0	100
2,4,6-Trinitrotoluene	DNB4	Lin1	166325 6333988	313676 10237439	721459	1749352	3320878	5.01 200	10.0 300	25.0	50.1	100
Nitrobenzene	DNB4	Lin1	37307 1270289	59826 1843293	130823	298516	586822	5.00 200	9.99 300	25.0	50.0	99.9
4-Amino-2,6-dinitrotoluene	DNT3	Lin1	131163 5084575	283493 8278720	591893	1330811	2427603	4.94 197	9.87 296	24.7	49.4	98.7
2-Amino-4,6-dinitrotoluene	DNT3	Lin1	205121 7312661	385368 11787132	1014620	2058020	3554032	5.01 200	10.0 300	25.0	50.1	100
2,6-Dinitrotoluene	DNT3	Lin1	275420 10075292	500913 15743371	1376882	2540404	4758836	5.01 200	10.0 300	25.0	50.1	100
2,4-Dinitrotoluene	DNT3	Lin1	131250 5239846	249328 7569395	674096	1285651	2616577	5.02 201	10.0 301	25.1	50.2	100
PETN	DNT3	Lin1	307129 8750290	511484 13290310	1434105	2597060	4528239	4.99 200	9.98 299	25.0	49.9	99.8
2-Nitrotoluene	DNT3	Lin1	52504 2016518	103528 3319727	270430	499423	982843	4.96 198	9.91 297	24.8	49.6	99.1
4-Nitrotoluene	DNT3	Lin1	45215 1769682	84997 2930786	233656	419399	833939	4.98 199	9.95 299	24.9	49.8	99.5

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-22438-1 Analy Batch No.: 95626

SDG No.:

Instrument ID: LC_LCMS4 GC Column: IonPac ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/10/2011 10:21 Calibration End Date: 11/10/2011 11:34 Calibration ID: 7774

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
3-Nitrotoluene	DNT3	Lin1	30403 1078061	57140 1821860	154225	276086	526498	4.94 198	9.88 296	24.7	49.4	98.8
Nitrobenzene-d5	DNB4	Lin1	46828 1506354	81859 2310496	197267	411773	733966	5.00 200	10.0 300	25.0	50.0	100

Curve Type Legend:

Lin1 = Linear 1/conc ISTD

TestAmerica Laboratories
Target Compound Quantitation Report

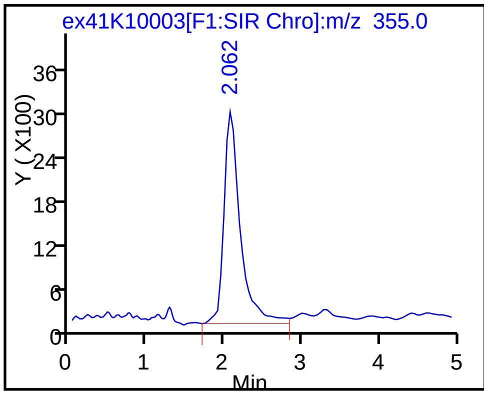
Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10003.d		
Lims ID:	STD005	Client ID:	
Inject. Date:	10-Nov-2011 10:21:34	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	11/10/11EX1 STD005 ug/L 280-0002741-001		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	2
Lims Batch ID:	95626	Lims Sample ID:	1
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:06	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	42679	5.49			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		877093	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	60709	4.83			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		3035887	250.0			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.799	3.759	0.040	1.000	32103	5.80			
	6 Tetryl									
2	241.0	4.469	4.469	0.000	0.895	41725	6.24			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.994	4.954	0.040		1969943	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	4.994	4.994	0.000	1.000	42296	5.82			
	9 Nitroglycerin									
2	61.8	5.034	5.035	-0.001	1.008	239756	4.60			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.405	5.405	0.000	1.082	166325	5.82			
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.102	46828	5.45			
	12 Nitrobenzene									
2	123.0	5.607	5.607	0.000	1.123	37307	6.35			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.122	6.088	0.034	0.850	131163	5.04			
	16 2-Amino-4,6-dinitrotoluene									
3	197.0	6.715	6.685	0.030	0.932	205121	4.84			

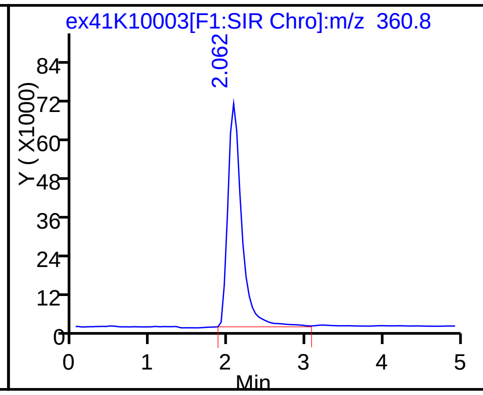
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.837	0.030	0.954	275420	5.10			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		6032415	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.262	0.030	1.013	131250	4.90			
20 PETN										
4	61.8	7.737	7.707	0.030	1.000	307129	4.12			
22 o-Nitrotoluene										
4	137.0	8.254	8.223	0.031	1.000	52504	5.15			
23 p-Nitrotoluene										
4	137.0	8.800	8.770	0.030	1.000	45215	5.47			
24 m-Nitrotoluene										
4	137.0	9.468	9.438	0.030	1.000	30403	5.08			

Report Date: 11-Nov-2011 06:40:07 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10003.d
Injection Date: 10-Nov-2011 10:21:34 Limit Group: LC - 8321A Expl
Client ID: Instrument ID: LC_LCMS4
Lims Batch ID: 95626 Lims Sample ID: 1
Operator ID: Injection Vol: 40.00 ul

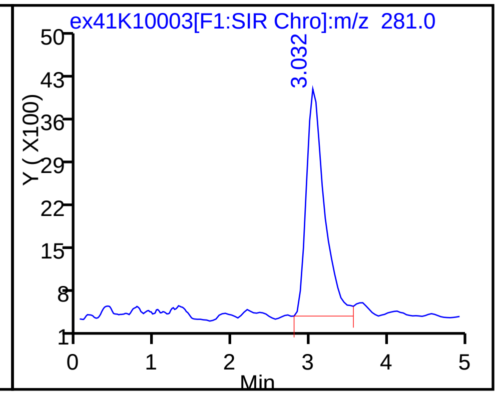
2 HMX



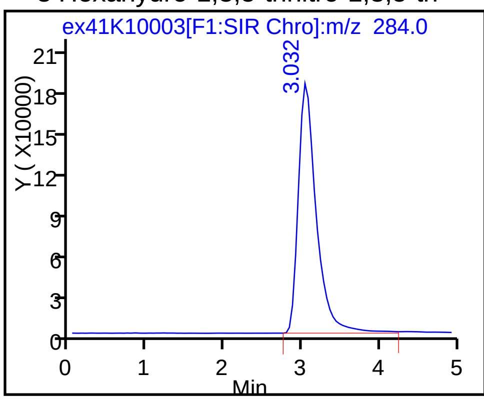
* 1 HMX-13C4



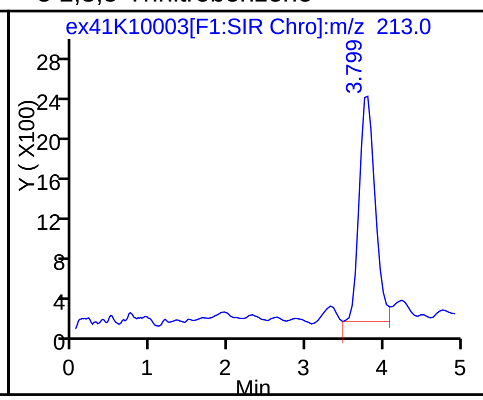
4 RDX



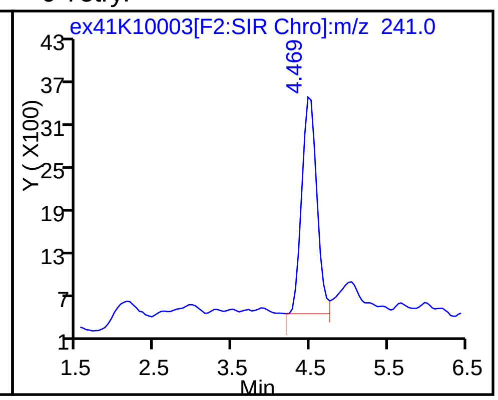
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



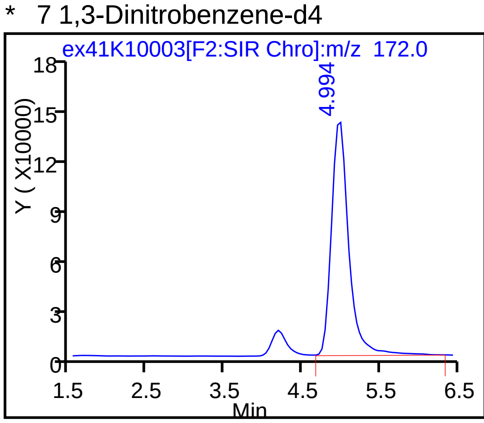
5 1,3,5-Trinitrobenzene



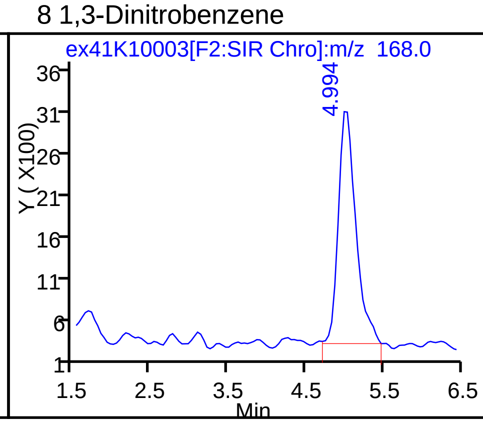
6 Tetryl



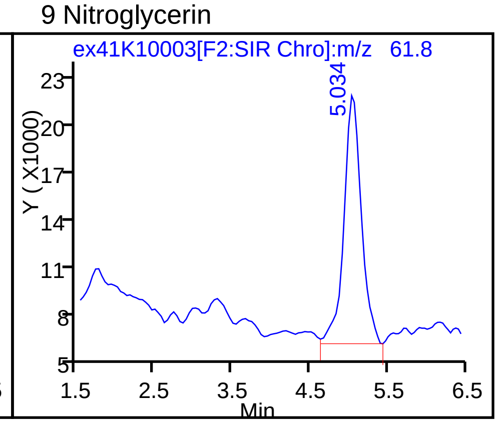
* 7 1,3-Dinitrobenzene-d4



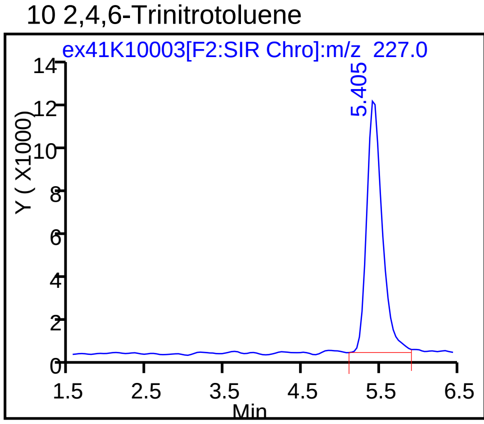
8 1,3-Dinitrobenzene



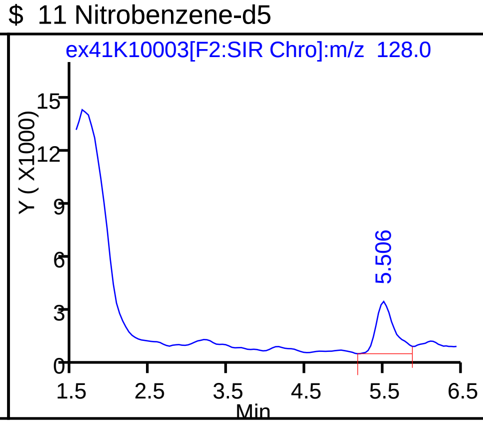
9 Nitroglycerin



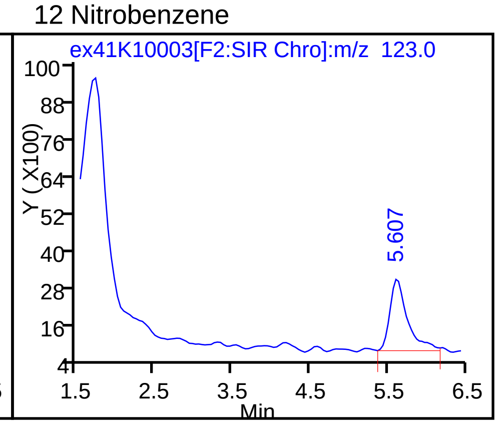
10 2,4,6-Trinitrotoluene



$ 11 Nitrobenzene-d5

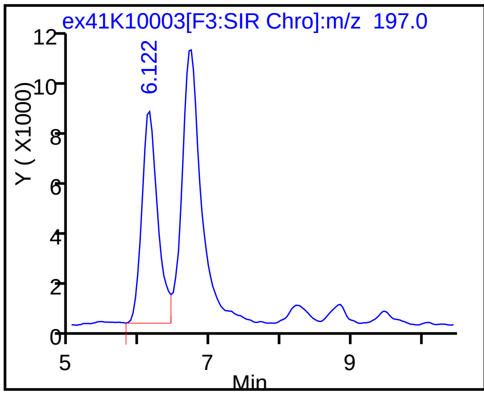


12 Nitrobenzene

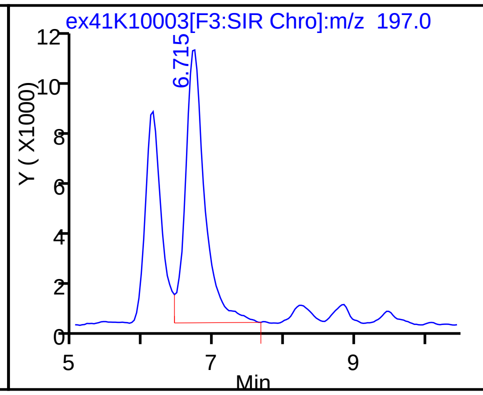


Report Date: 11-Nov-2011 06:40:07 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10003.d

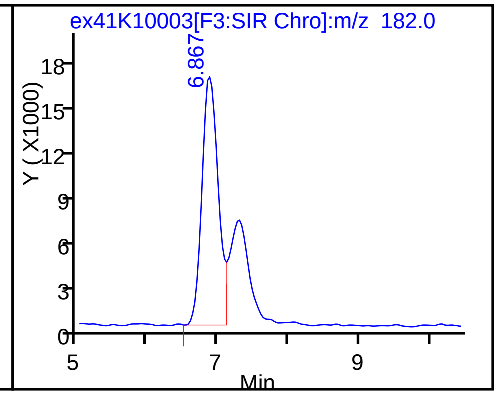
14 4-Amino-2,6-dinitrotoluene



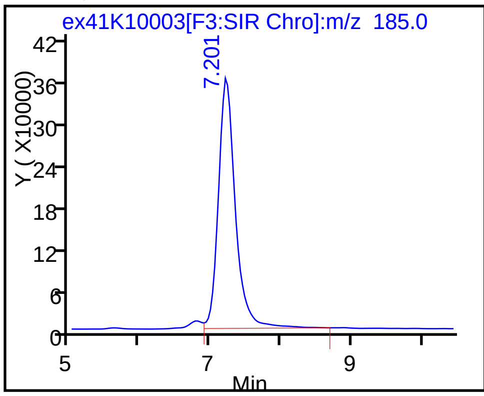
16 2-Amino-4,6-dinitrotoluene



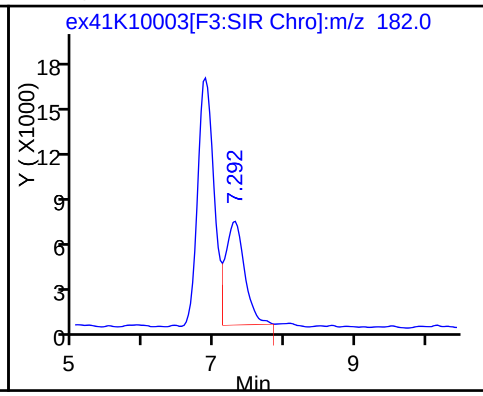
17 2,6-Dinitrotoluene



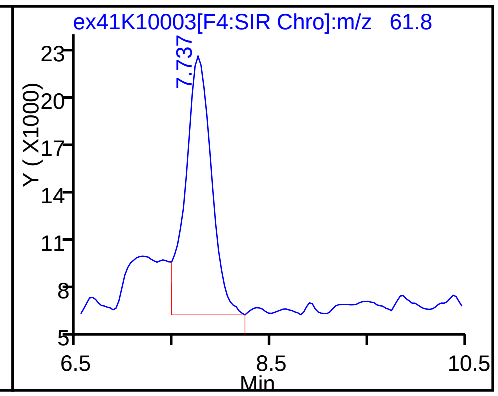
* 18 2,4-dinitrotoluene-d3



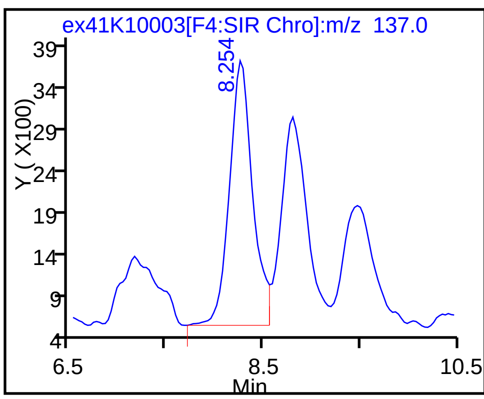
19 2,4-Dinitrotoluene



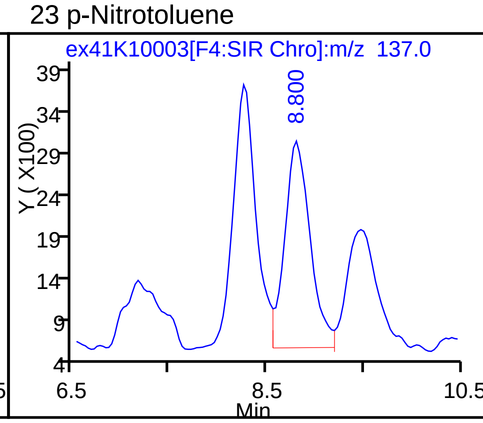
20 PETN



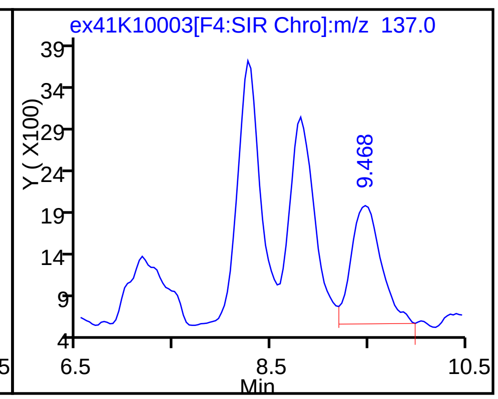
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10004.d		
Lims ID:	STD010	Client ID:	
Inject. Date:	10-Nov-2011 10:33:39	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	11/10/11EX2 STD010 ug/L 280-0002741-002		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	3
Lims Batch ID:	95626	Lims Sample ID:	2
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:07	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

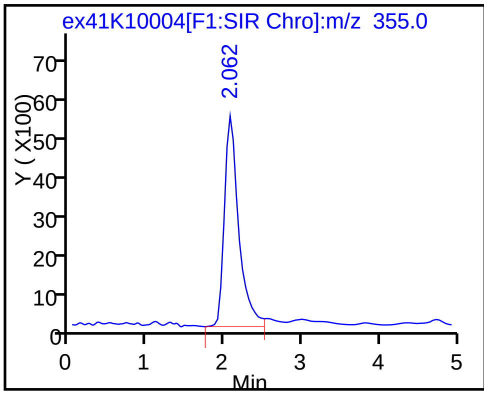
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	70974	9.58			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		861257	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	102819	9.07			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2844519	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	66749	9.72			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.895	77172	9.45			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		2063162	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	4.994	0.041	1.008	82415	10.2			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.008	487217	9.31			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.405	0.034	1.089	313676	9.36			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	81859	9.10			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.123	59826	9.20			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.845	283493	11.4			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	385368	10.3			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.837	0.030	0.954	500913	10.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5076741	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.262	0.000	1.008	249328	10.2			
20 PETN										
4	61.8	7.737	7.707	0.030	1.000	511484	9.66			
22 o-Nitrotoluene										
4	137.0	8.254	8.223	0.031	1.000	103528	10.6			
23 p-Nitrotoluene										
4	137.0	8.800	8.770	0.030	1.000	84997	10.4			
24 m-Nitrotoluene										
4	137.0	9.468	9.438	0.030	1.000	57140	10.4			

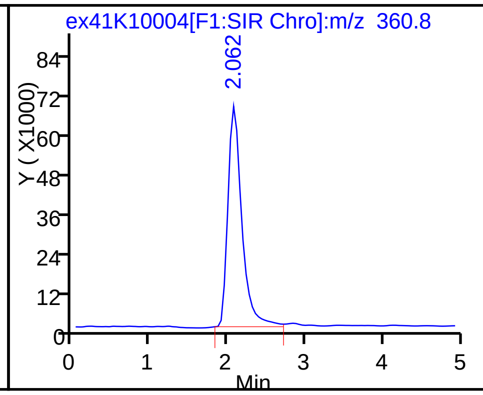
Report Date: 11-Nov-2011 06:40:08 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10004.d

Injection Date:	10-Nov-2011 10:33:39	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	2
Operator ID:		Injection Vol:	40.00 ul

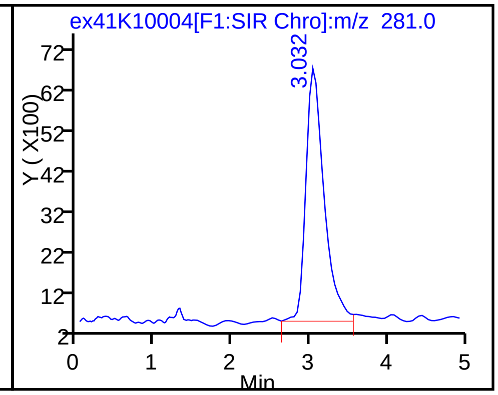
2 HMX



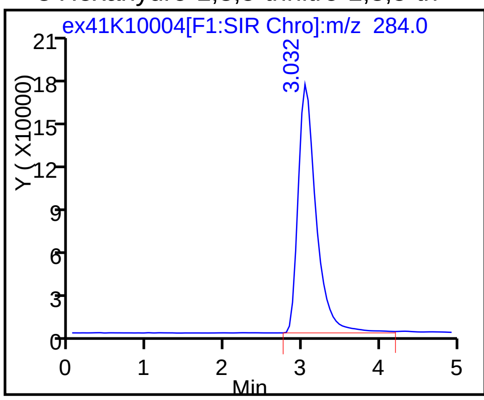
* 1 HMX-13C4



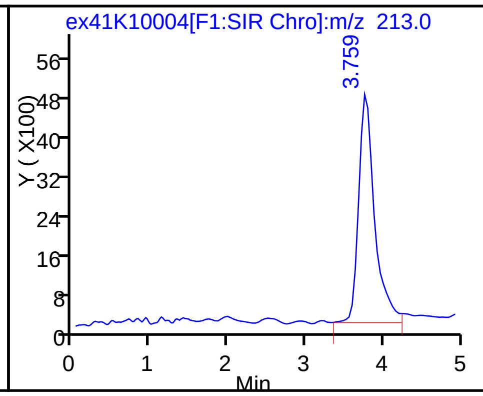
4 RDX



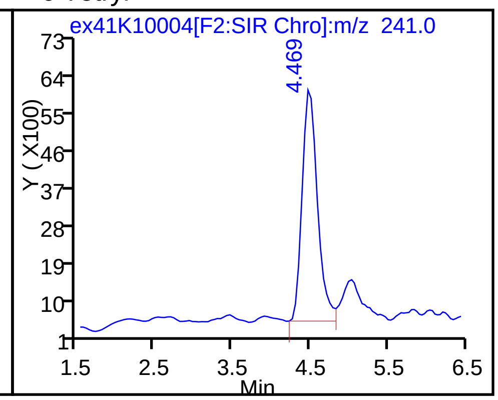
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



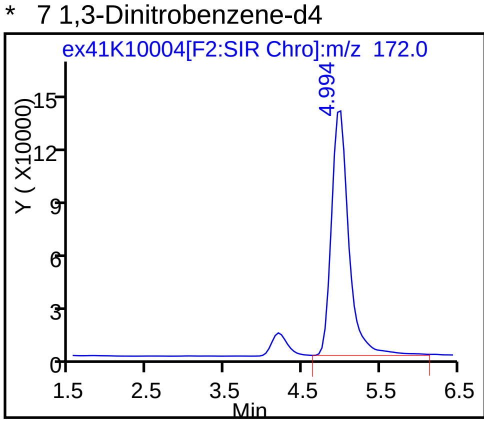
5 1,3,5-Trinitrobenzene



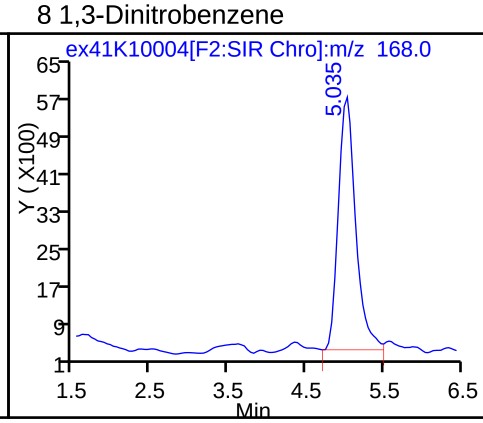
6 Tetryl



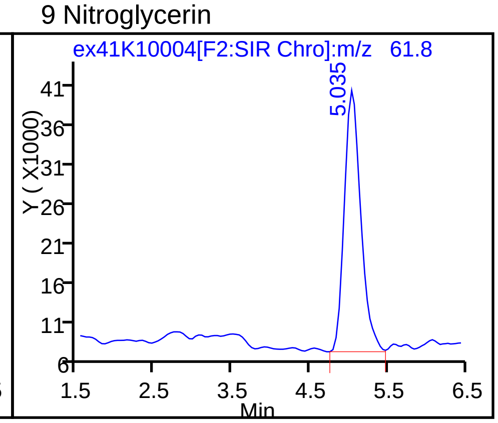
* 7 1,3-Dinitrobenzene-d4



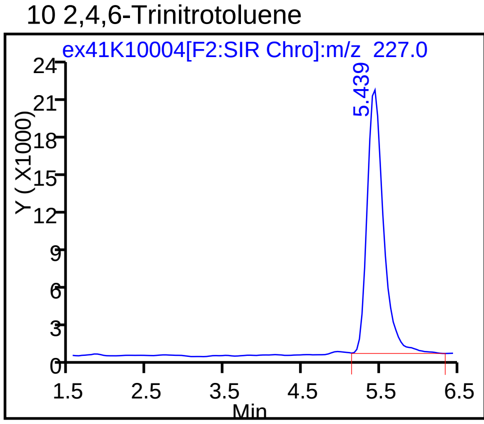
8 1,3-Dinitrobenzene



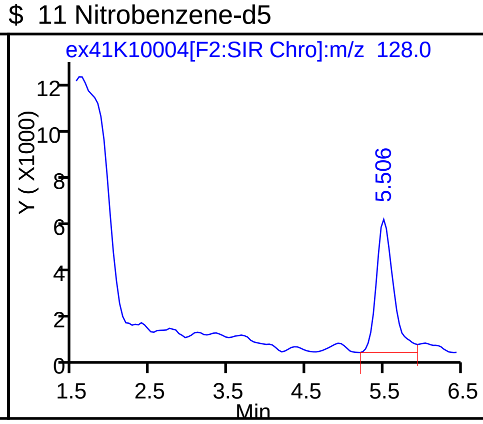
9 Nitroglycerin



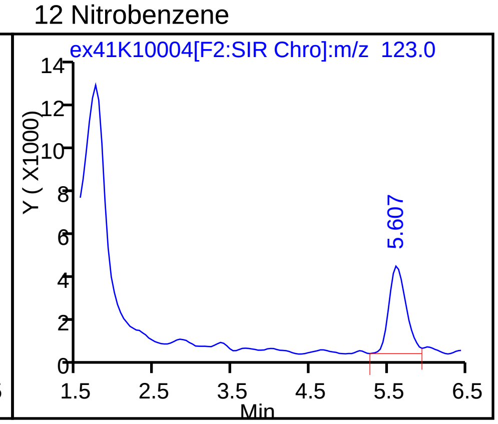
10 2,4,6-Trinitrotoluene



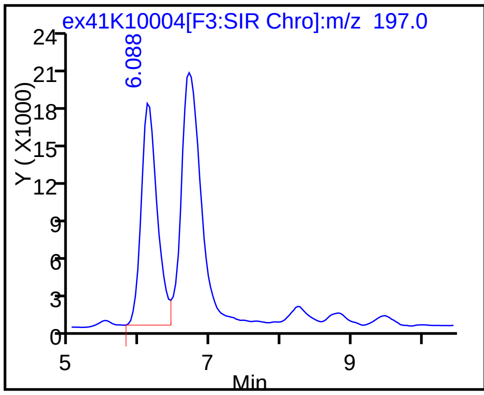
$ 11 Nitrobenzene-d5



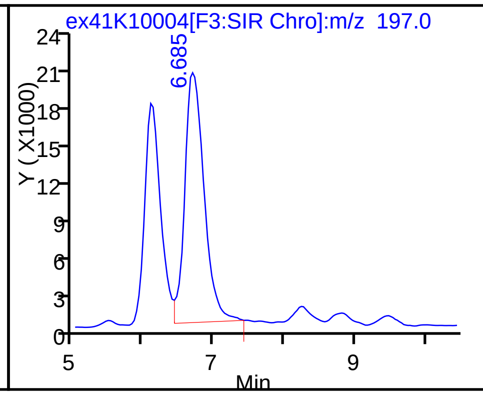
12 Nitrobenzene



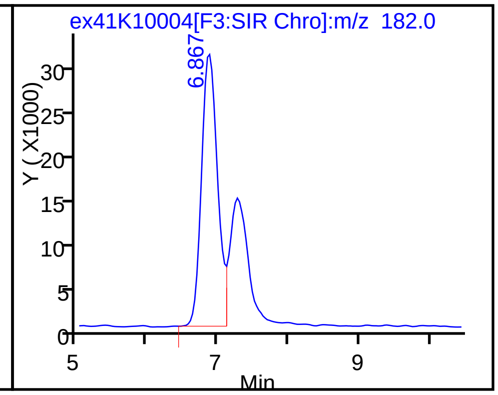
14 4-Amino-2,6-dinitrotoluene



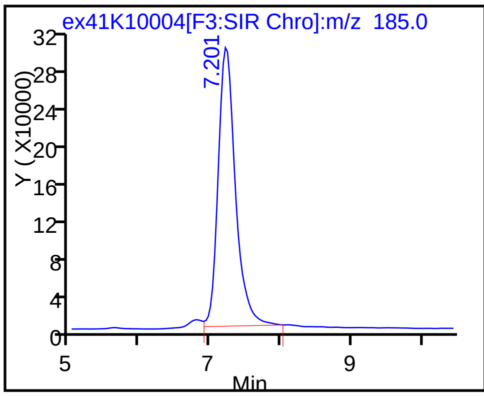
16 2-Amino-4,6-dinitrotoluene



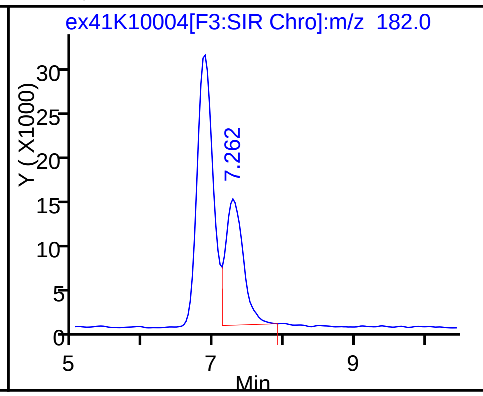
17 2,6-Dinitrotoluene



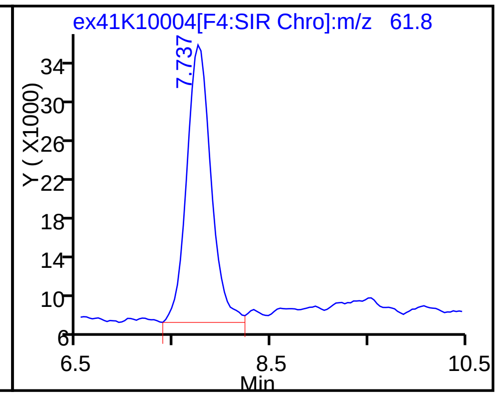
* 18 2,4-dinitrotoluene-d3



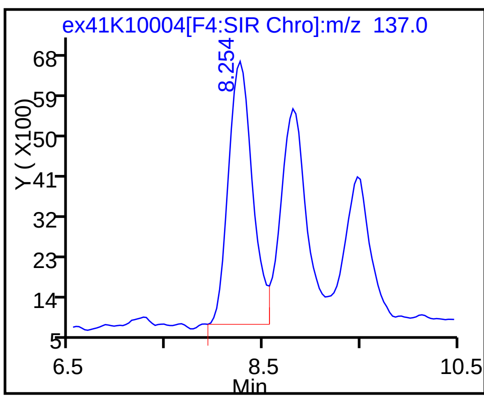
19 2,4-Dinitrotoluene



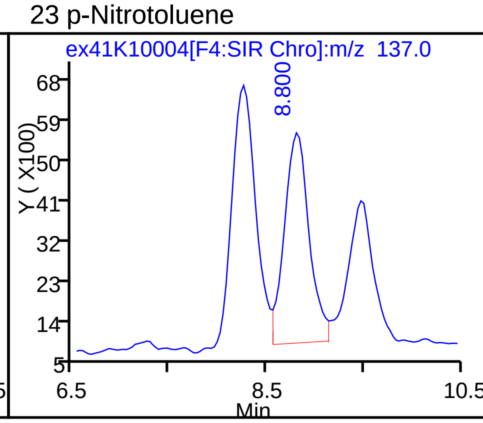
20 PETN



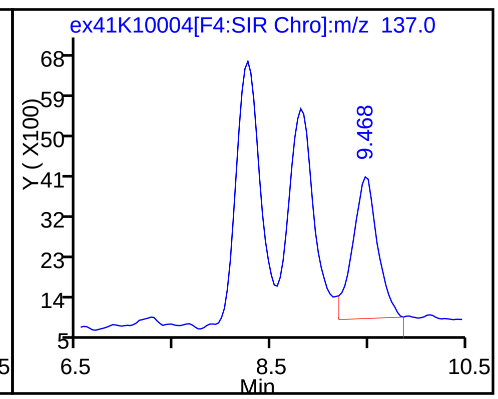
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



Report Date: 11-Nov-2011 06:40:09 Chrom Revision: 1.2 13-Jul-2011 10:43:06

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10005.d
Lims ID: STD025 Client ID:
Inject. Date: 10-Nov-2011 10:45:44 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 11/10/11EX3 STD025 ug/L 280-0002741-003
Misc. Info.: ex41K10 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 4
Lims Batch ID: 95626 Lims Sample ID: 3
Sublist: chrom-8321exp4-25*sub4
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m
Last Update: 11-Nov-2011 06:40:08 Calib Date: 10-Nov-2011 11:34:20
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	150748	25.0			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		718763	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	267604	26.4			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2621052	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	159615	25.2			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	174591	22.8			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1663994	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	4.994	0.040	1.016	169019	24.6			
9 Nitroglycerin										
2	61.8	5.034	5.035	-0.001	1.016	1096117	26.7			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	721459	24.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	197267	27.2			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	130823	23.3			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.088	0.034	0.850	591893	20.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	1014620	24.0			

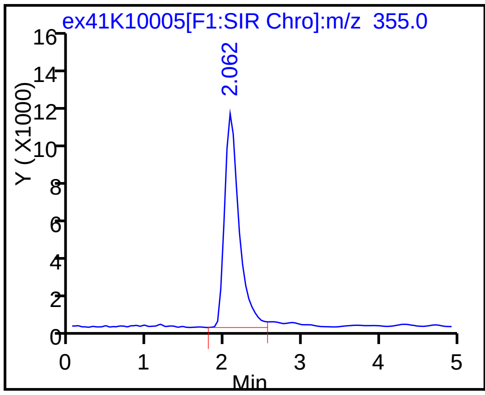
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.837	0.030	0.954	1376882	24.5			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5598908	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.262	0.030	1.013	674096	23.9			
20 PETN										
4	61.8	7.737	7.707	0.030	1.000	1434105	26.9			
22 o-Nitrotoluene										
4	137.0	8.254	8.223	0.031	1.000	270430	23.6			
23 p-Nitrotoluene										
4	137.0	8.800	8.770	0.030	1.000	233656	23.7			
24 m-Nitrotoluene										
4	137.0	9.468	9.438	0.030	1.000	154225	24.3			

Report Date: 11-Nov-2011 06:40:09 Chrom Revision: 1.2 13-Jul-2011 10:43:06

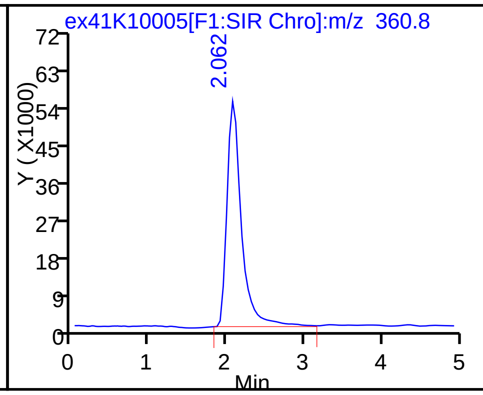
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10005.d

Injection Date:	10-Nov-2011 10:45:44	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	3
Operator ID:		Injection Vol:	40.00 ul

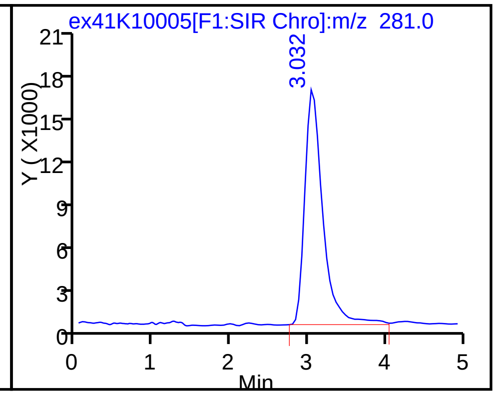
2 HMX



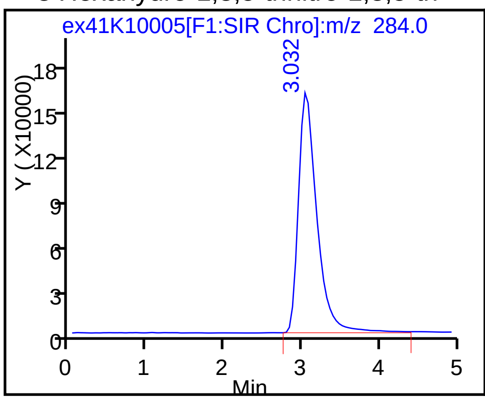
* 1 HMX-13C4



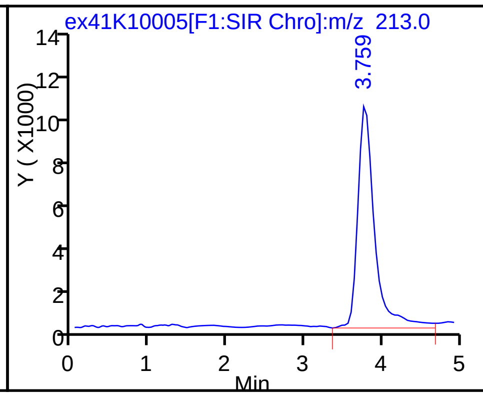
4 RDX



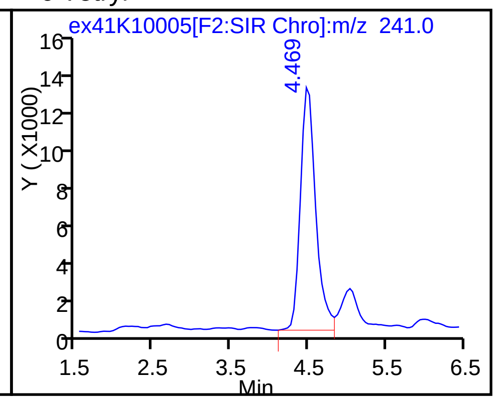
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



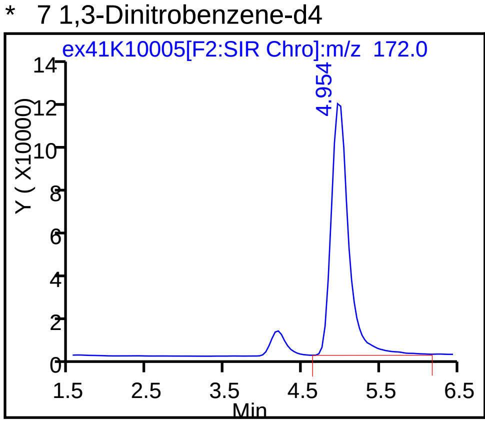
5 1,3,5-Trinitrobenzene



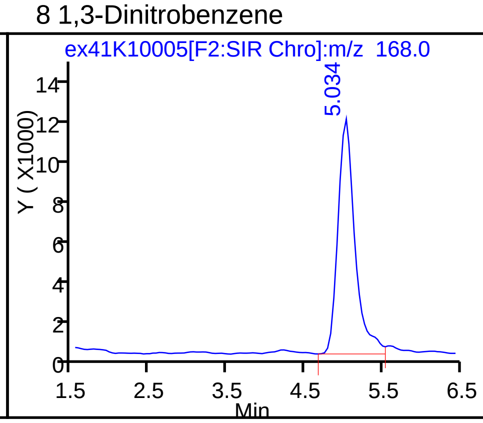
6 Tetryl



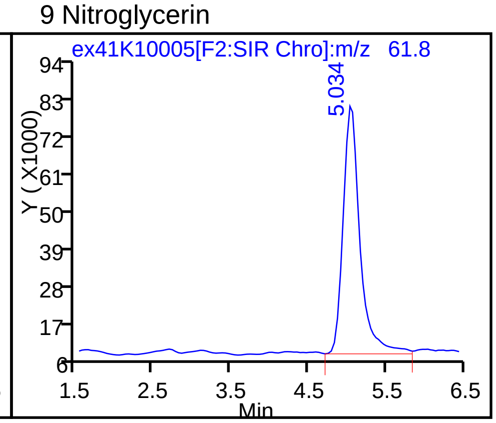
* 7 1,3-Dinitrobenzene-d4



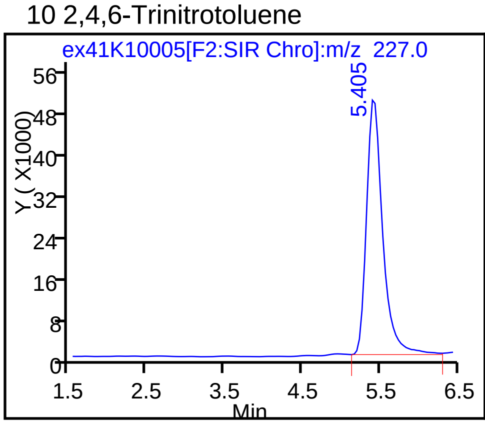
8 1,3-Dinitrobenzene



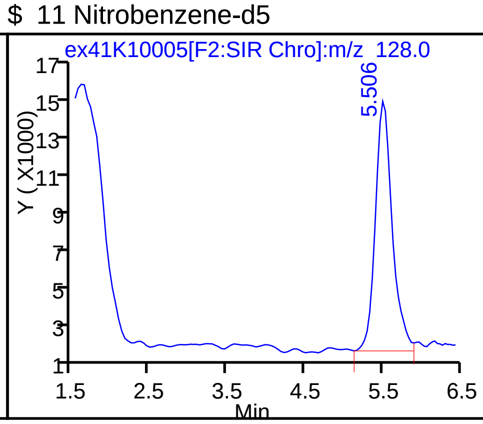
9 Nitroglycerin



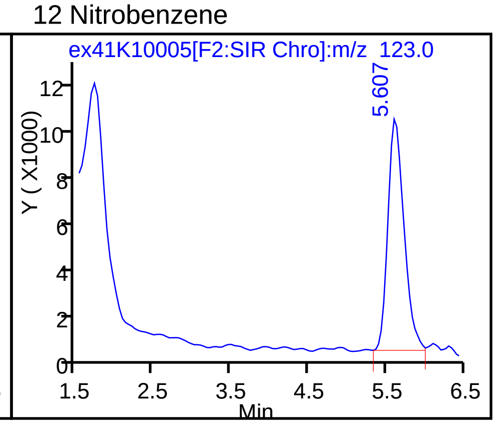
10 2,4,6-Trinitrotoluene



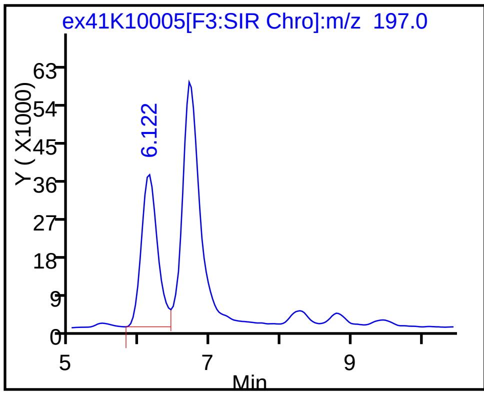
$ 11 Nitrobenzene-d5



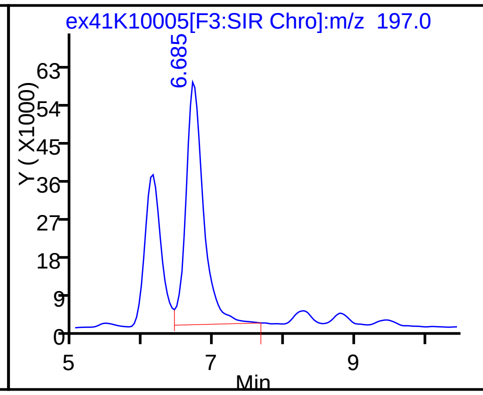
12 Nitrobenzene



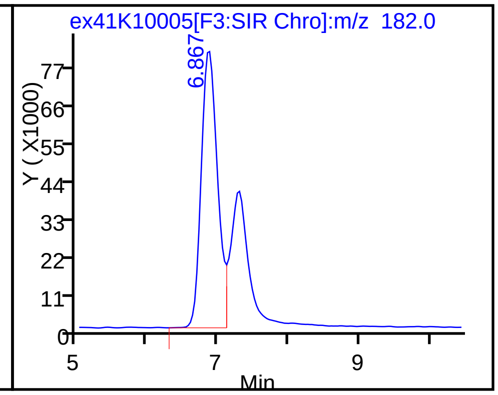
14 4-Amino-2,6-dinitrotoluene



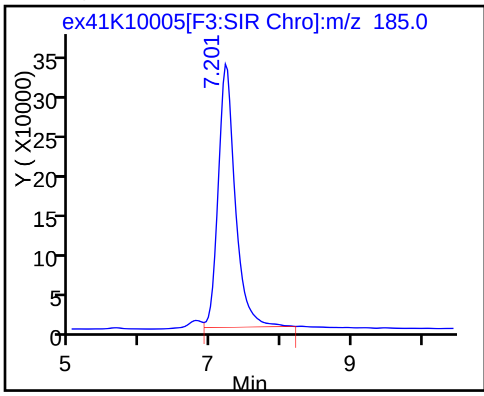
16 2-Amino-4,6-dinitrotoluene



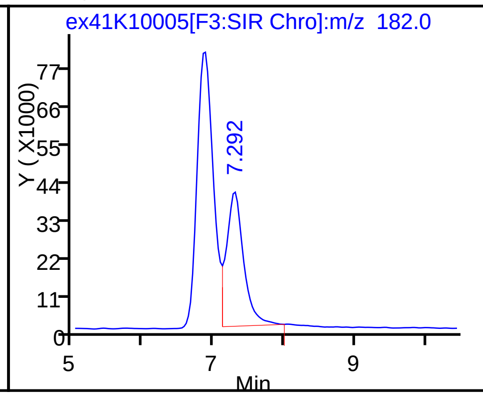
17 2,6-Dinitrotoluene



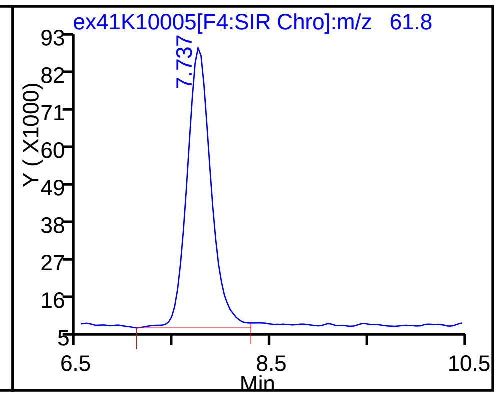
* 18 2,4-dinitrotoluene-d3



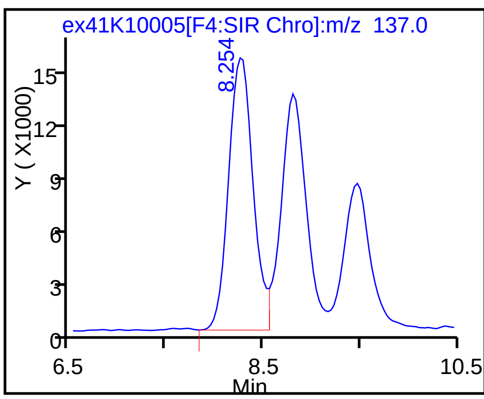
19 2,4-Dinitrotoluene



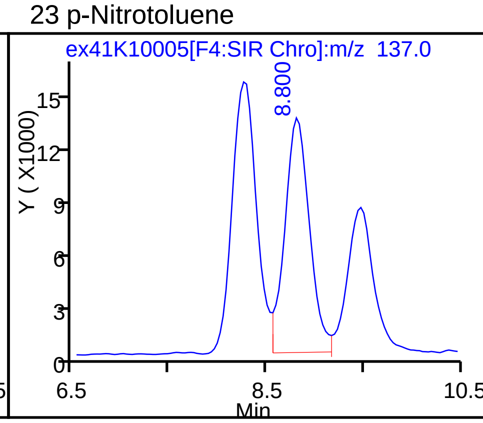
20 PETN



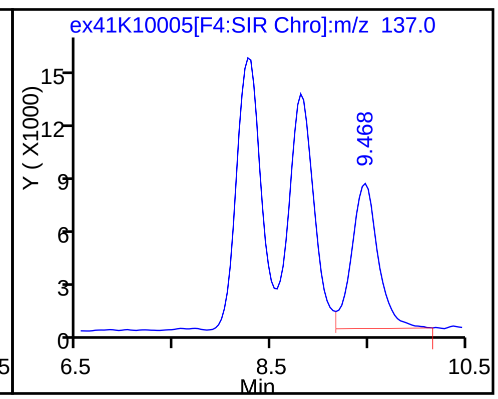
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10006.d		
Lims ID:	STD050	Client ID:	
Inject. Date:	10-Nov-2011 10:57:49	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	11/10/11EX4 STD050 ug/L 280-0002741-004		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	95626	Lims Sample ID:	4
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:09	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	339681	49.0			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		832704	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	590097	51.4			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2989097	250.0			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	358761	44.8			
	6 Tetryl									
2	241.0	4.469	4.469	0.000	0.902	396931	40.6			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		2037305	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	5.034	4.994	0.040	1.016	391390	45.9			
	9 Nitroglycerin									
2	61.8	5.034	5.035	-0.001	1.016	2679639	53.7			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.405	5.405	0.000	1.091	1749352	46.3			
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.111	411773	46.3			
	12 Nitrobenzene									
2	123.0	5.607	5.607	0.000	1.132	298516	42.5			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.122	6.088	0.034	0.850	1330811	52.3			
	16 2-Amino-4,6-dinitrotoluene									
3	197.0	6.685	6.685	0.000	0.928	2058020	56.2			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.837	0.030	0.954	2540404	51.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4802778	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.262	-0.001	1.008	1285651	52.3			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	2597060	58.5			
22 o-Nitrotoluene										
4	137.0	8.254	8.223	0.031	1.000	499423	49.5			
23 p-Nitrotoluene										
4	137.0	8.800	8.770	0.030	1.000	419399	48.0			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	276086	49.9			

Report Date: 11-Nov-2011 06:40:10 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10006.d

Injection Date:	10-Nov-2011 10:57:49	Limit Group:	LC - 8321A Expl
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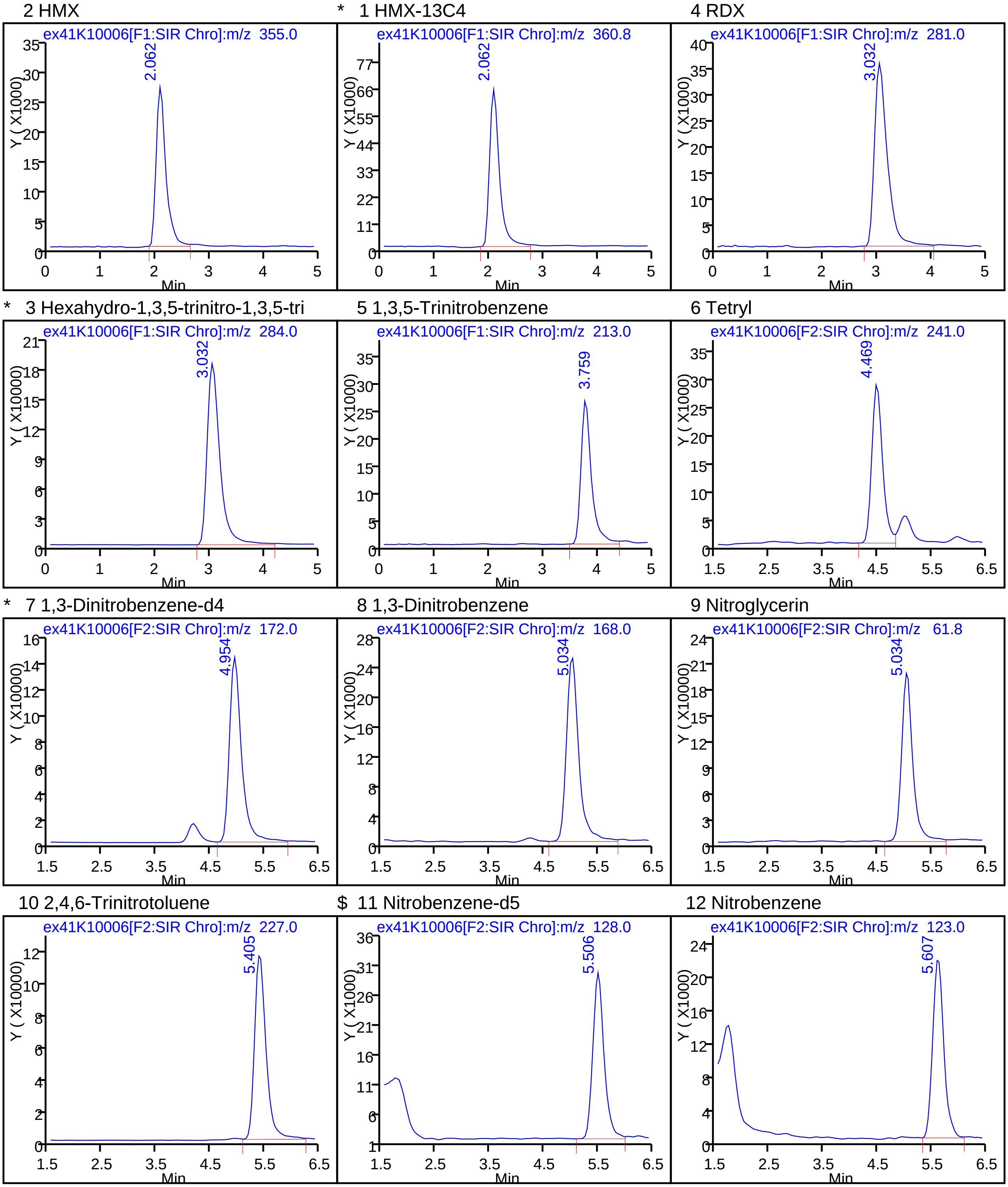
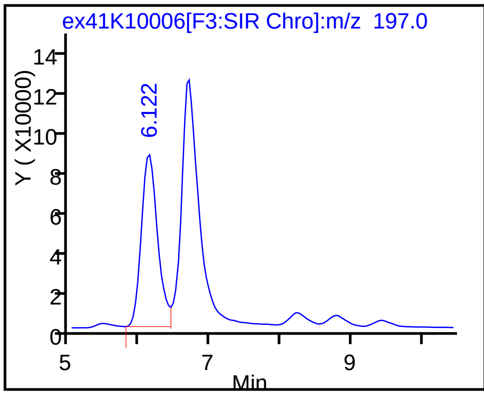
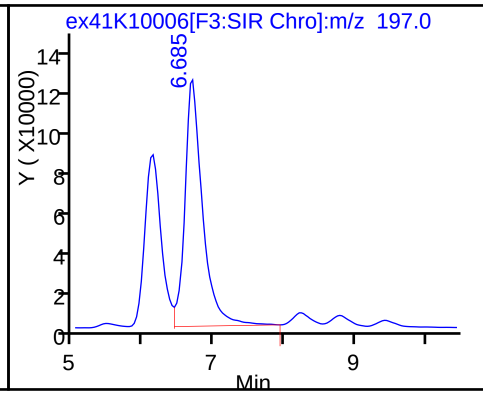
Lims Batch ID:	95626	Lims Sample ID:	4
Operator ID:		Injection Vol:	40.00 ul



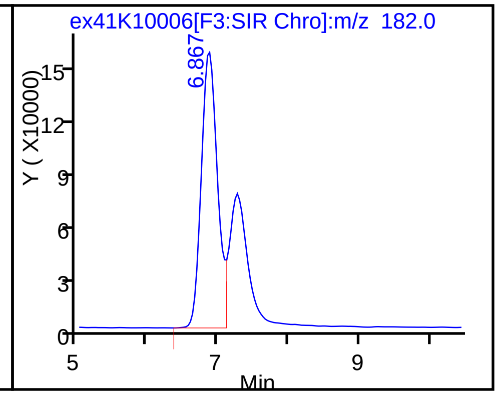
14 4-Amino-2,6-dinitrotoluene



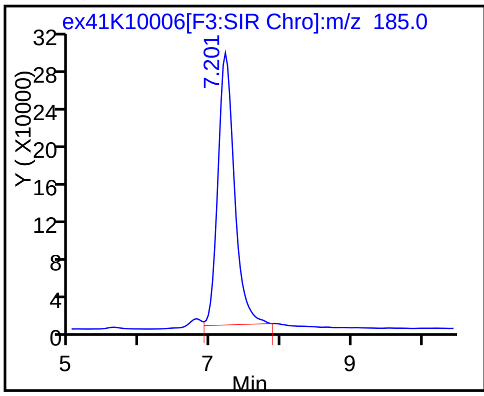
16 2-Amino-4,6-dinitrotoluene



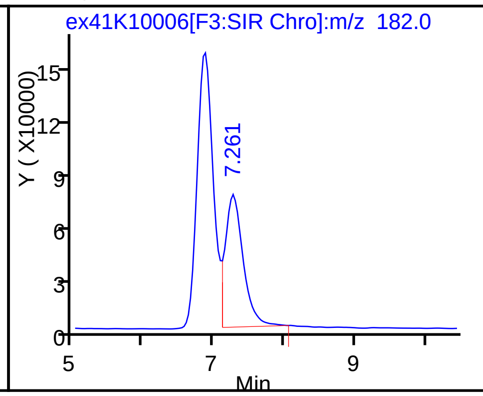
17 2,6-Dinitrotoluene



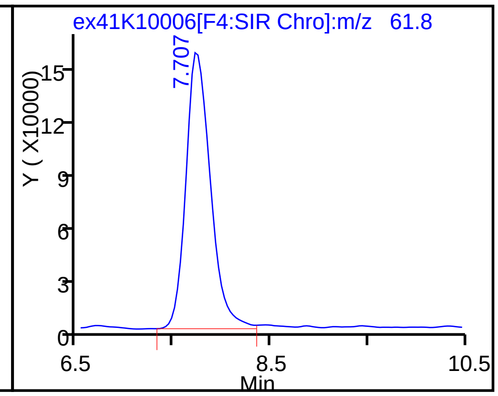
* 18 2,4-dinitrotoluene-d3



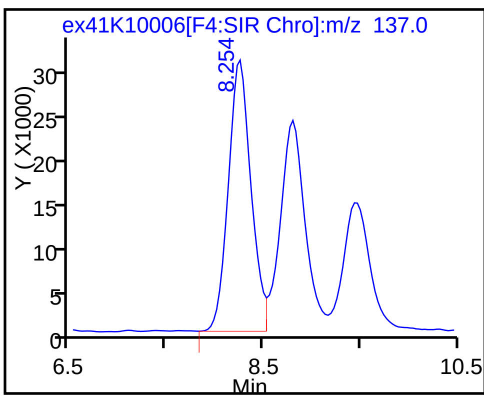
19 2,4-Dinitrotoluene



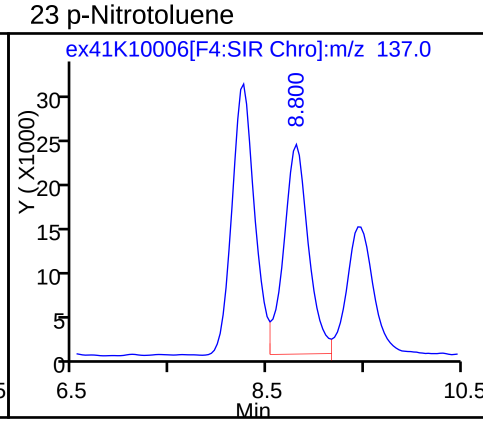
20 PETN



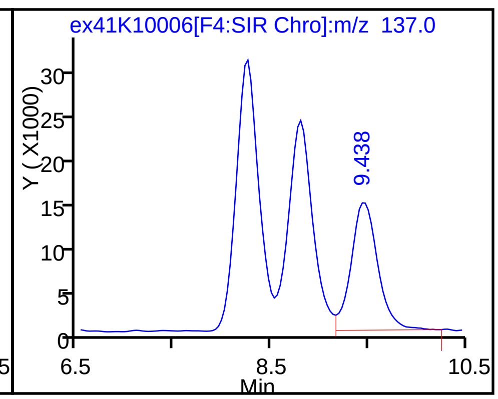
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10007.d		
Lims ID:	STD100	Client ID:	
Inject. Date:	10-Nov-2011 11:10:10	Dil. Factor:	1.0000
Sample Type:	ICISAV	Calib Level:	5
Sample ID:	11/10/11EX5 STD100 ug/L 280-0002741-005		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	95626	Lims Sample ID:	5
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:10	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 11-Nov-2011 06:38:29

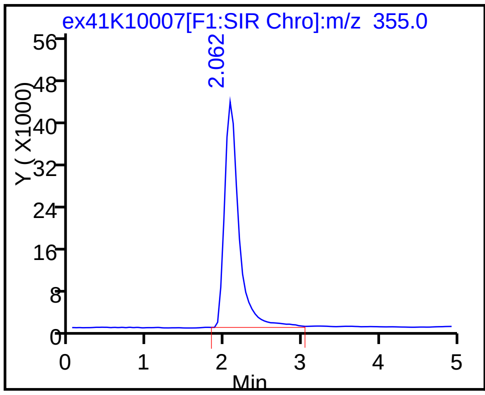
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	559636	93.5			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		722372	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1001886	101.3			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2586698	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	637926	92.9			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	842247	99.4			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1710468	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	691970	95.8			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	4294053	103.0			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	3320878	102.9			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	733966	98.3			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	586822	98.1			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.845	2427603	90.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	3554032	92.7			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.949	4758836	92.6			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5016348	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.008	2616577	101.2			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	4528239	98.7			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	982843	92.2			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	833939	90.1			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	526498	90.5			

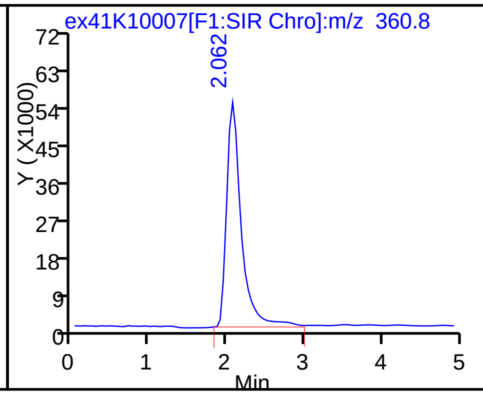
Report Date: 11-Nov-2011 06:40:11 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10007.d		
Injection Date:	10-Nov-2011 11:10:10	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	5
Operator ID:		Injection Vol:	40.00 ul

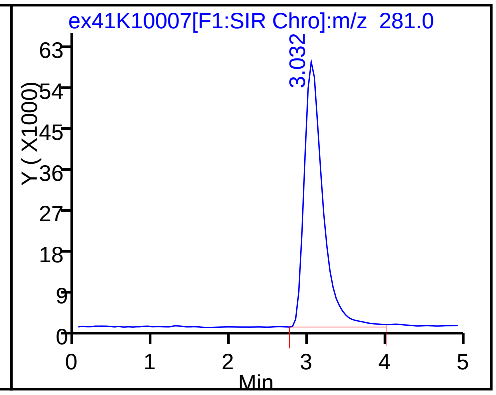
2 HMX



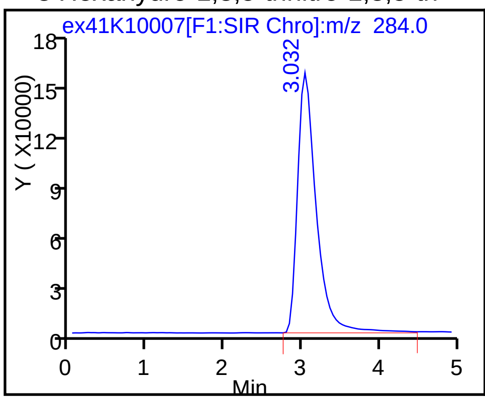
* 1 HMX-13C4



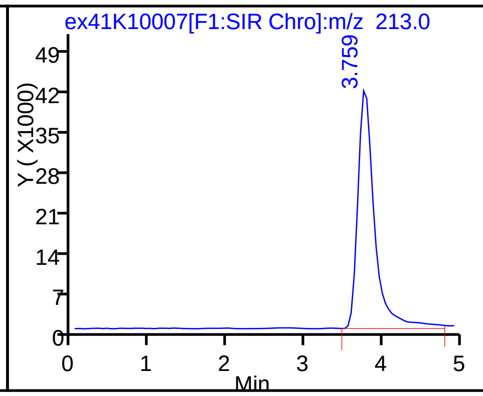
4 RDX



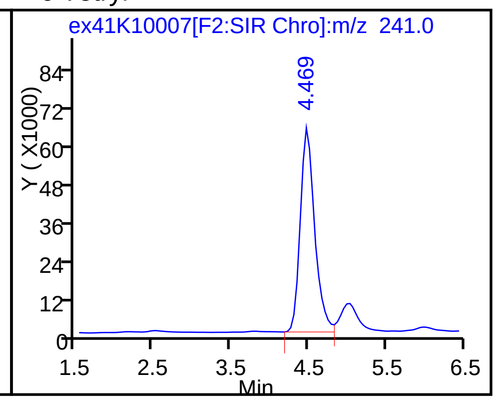
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



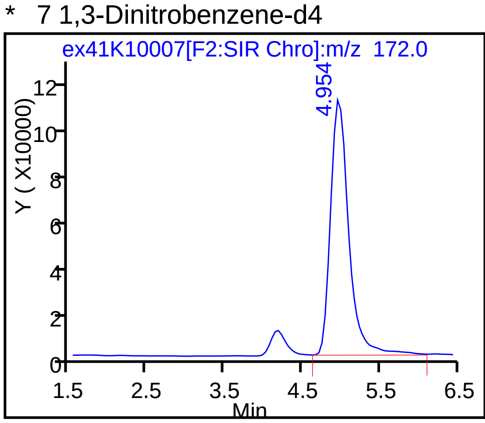
5 1,3,5-Trinitrobenzene



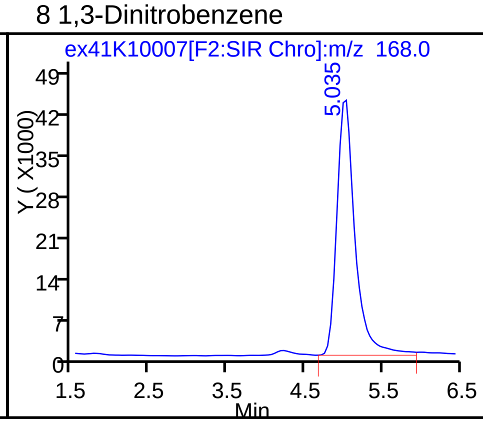
6 Tetryl



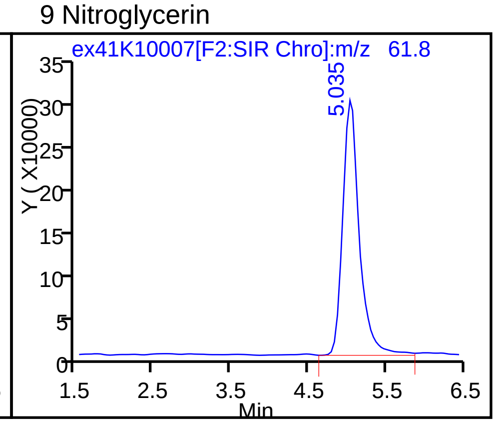
* 7 1,3-Dinitrobenzene-d4



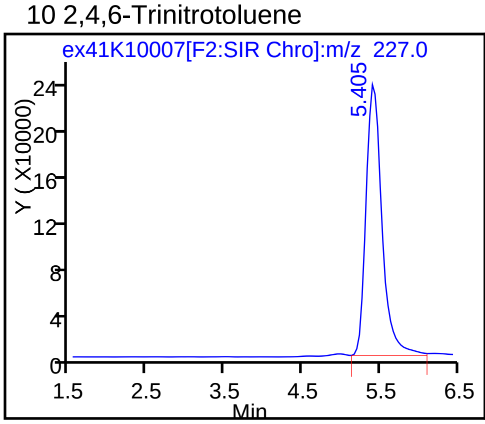
8 1,3-Dinitrobenzene



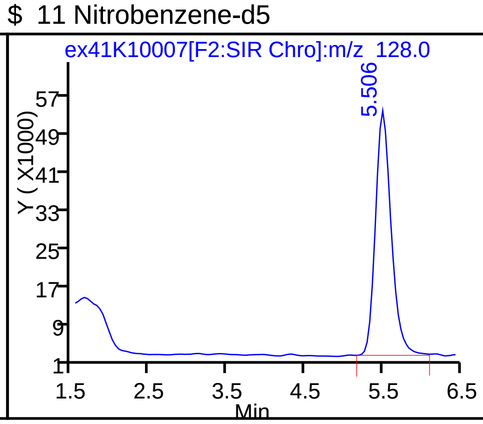
9 Nitroglycerin



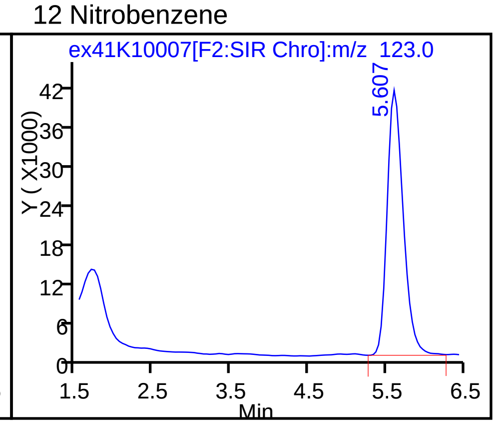
10 2,4,6-Trinitrotoluene



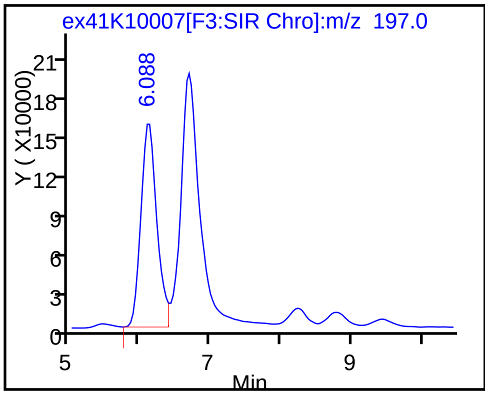
$ 11 Nitrobenzene-d5



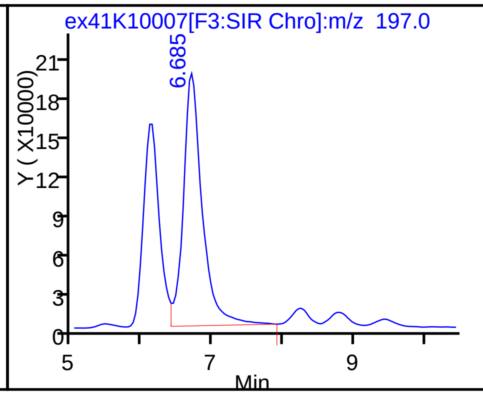
12 Nitrobenzene



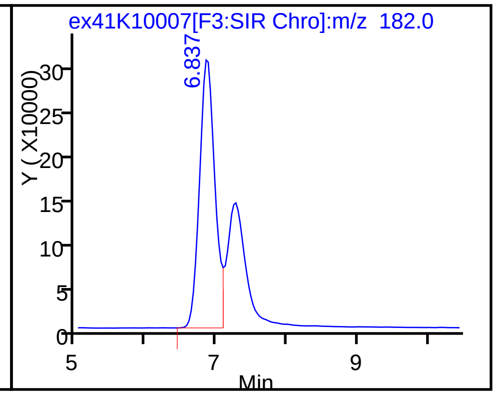
14 4-Amino-2,6-dinitrotoluene



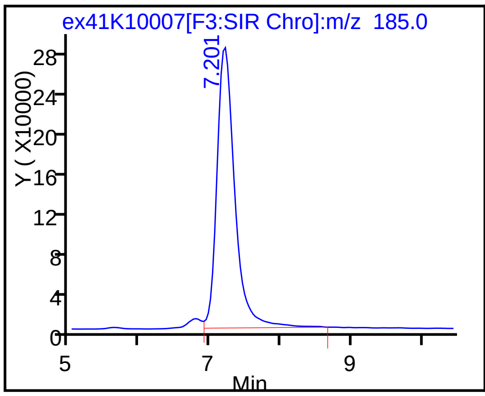
16 2-Amino-4,6-dinitrotoluene



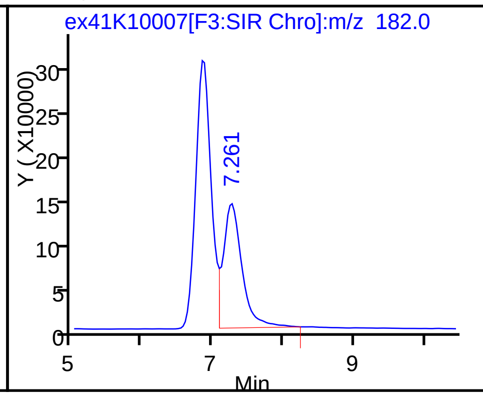
17 2,6-Dinitrotoluene



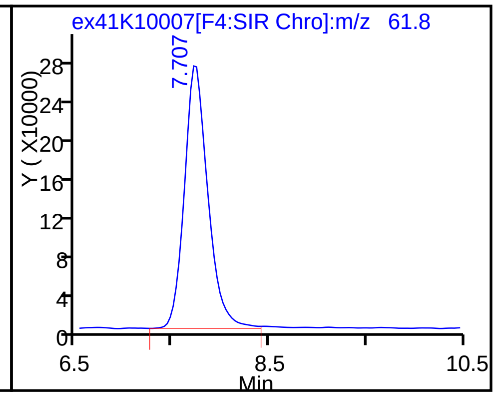
* 18 2,4-dinitrotoluene-d3



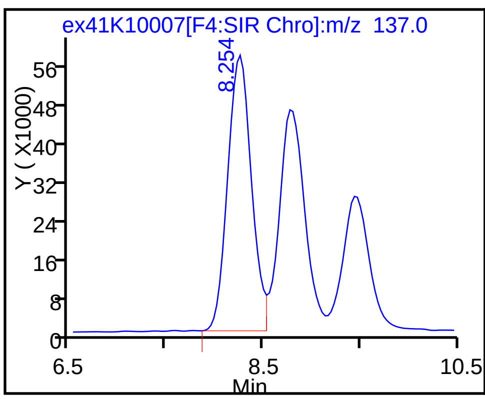
19 2,4-Dinitrotoluene



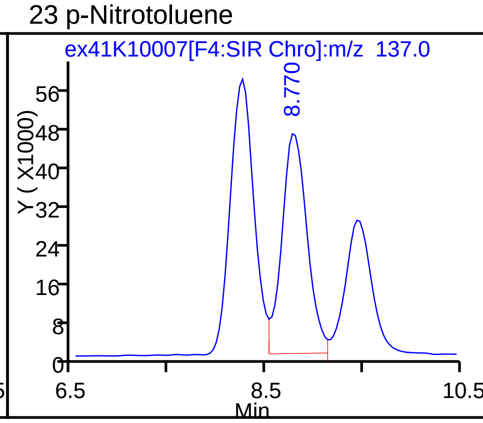
20 PETN



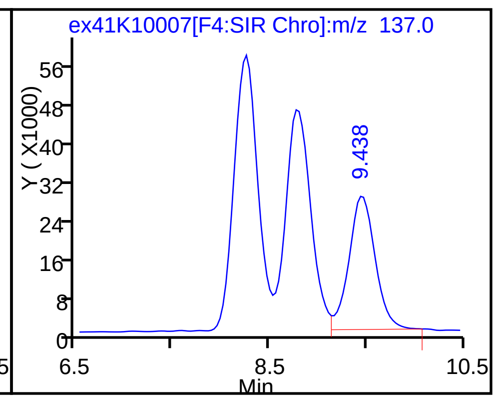
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10008.d		
Lims ID:	STD200	Client ID:	
Inject. Date:	10-Nov-2011 11:22:15	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	11/10/11EX6 STD200 ug/L 280-0002741-006		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	7
Lims Batch ID:	95626	Lims Sample ID:	6
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:11	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

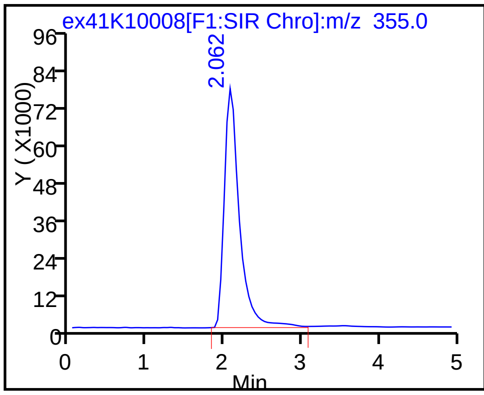
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	1059766	203.0			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		631435	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1764928	187.5			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2465694	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	1435163	200.4			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	1888316	213.7			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1764366	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	5.035	-0.041	1.008	1494979	199.7			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	8638301	201.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	6333988	189.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	1506354	195.6			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	1270289	204.9			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.849	5084575	192.2			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.685	-0.031	0.928	7312661	193.9			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.953	10075292	199.1			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.201	-0.031		4922005	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.261	0.001	1.013	5239846	205.8			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	8750290	195.8			
22 o-Nitrotoluene										
4	137.0	8.223	8.254	-0.031	1.000	2016518	191.6			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	1769682	193.2			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	1078061	188.0			

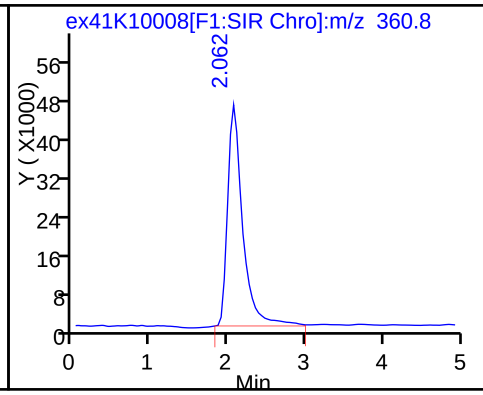
Report Date: 11-Nov-2011 06:40:12 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10008.d

Injection Date:	10-Nov-2011 11:22:15	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	6
Operator ID:		Injection Vol:	40.00 ul

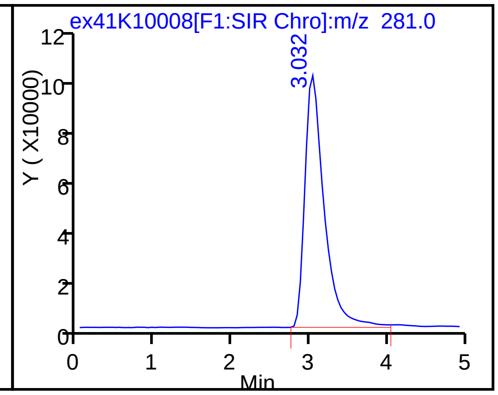
2 HMX



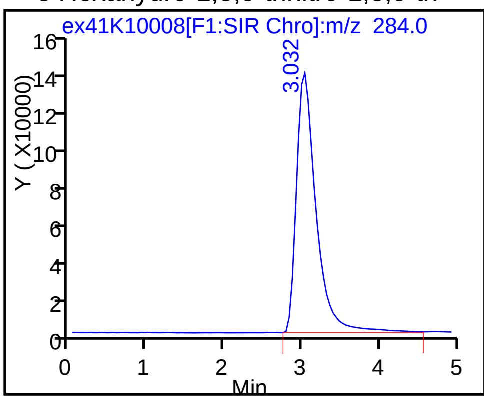
* 1 HMX-13C4



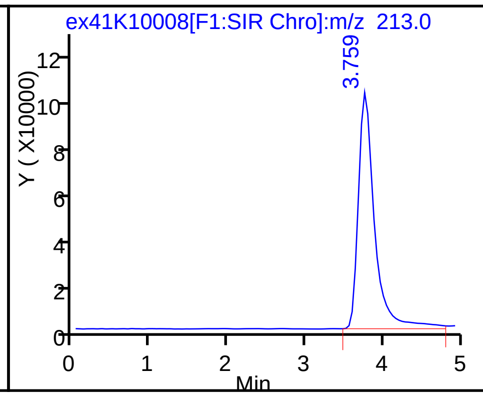
4 RDX



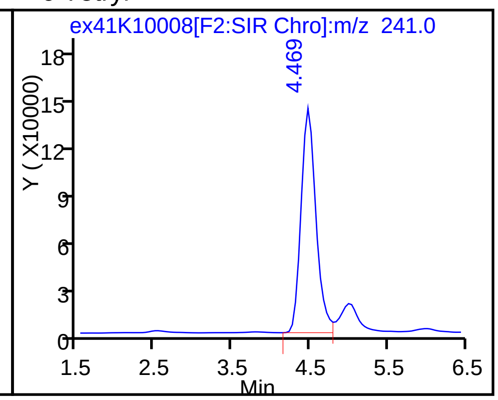
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



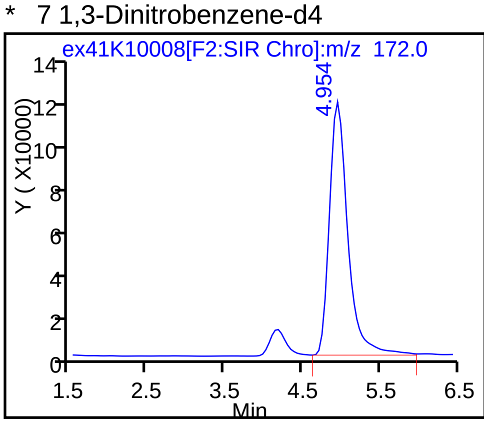
5 1,3,5-Trinitrobenzene



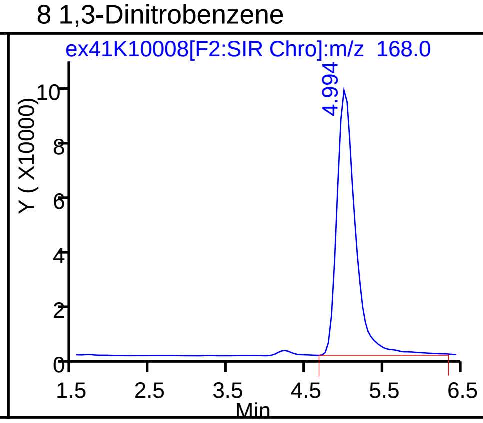
6 Tetryl



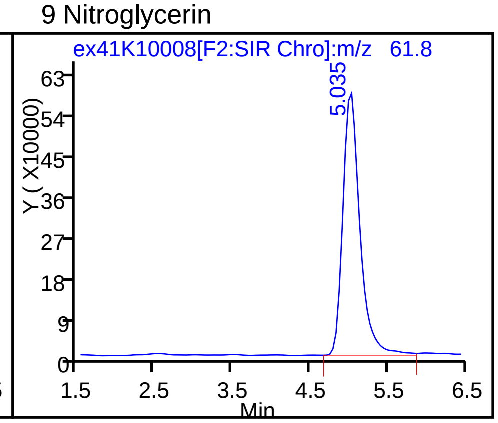
* 7 1,3-Dinitrobenzene-d4



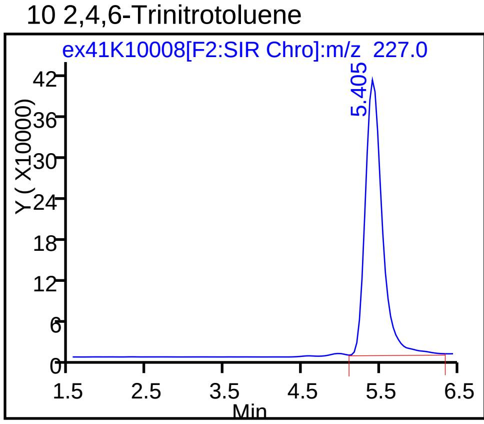
8 1,3-Dinitrobenzene



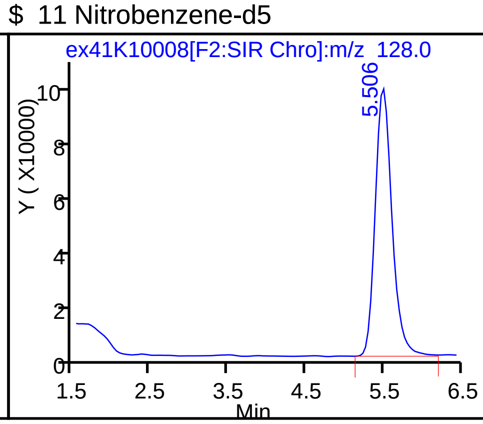
9 Nitroglycerin



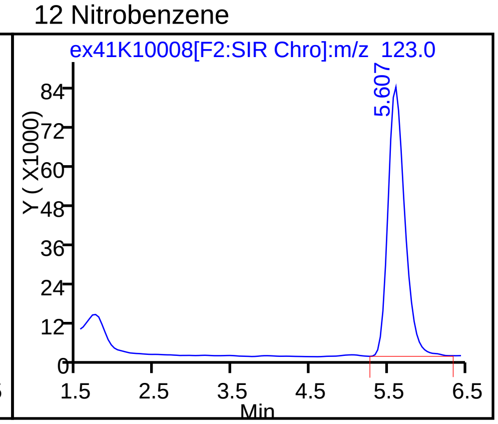
10 2,4,6-Trinitrotoluene



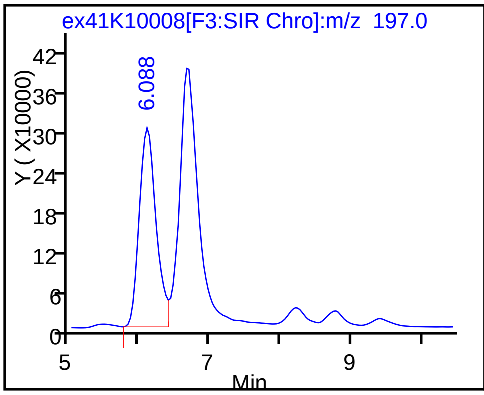
$ 11 Nitrobenzene-d5



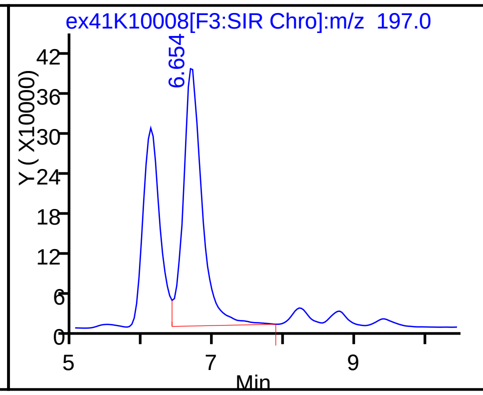
12 Nitrobenzene



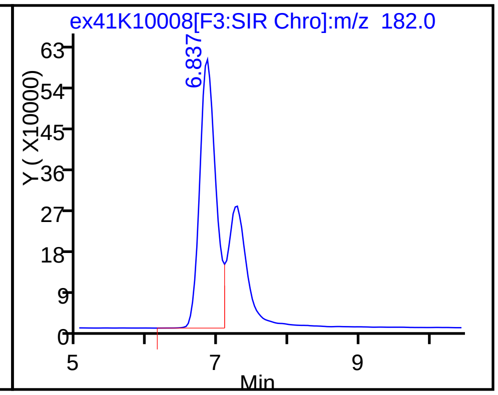
14 4-Amino-2,6-dinitrotoluene



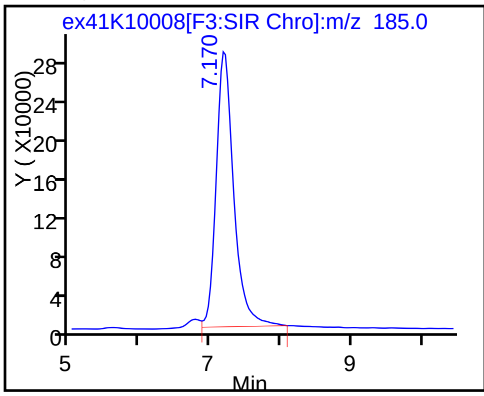
16 2-Amino-4,6-dinitrotoluene



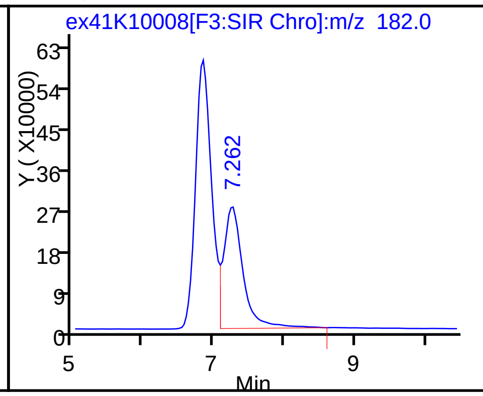
17 2,6-Dinitrotoluene



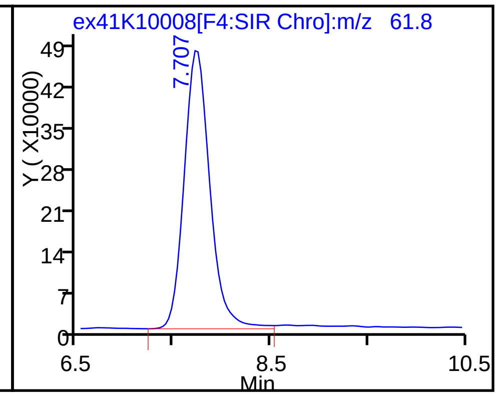
* 18 2,4-dinitrotoluene-d3



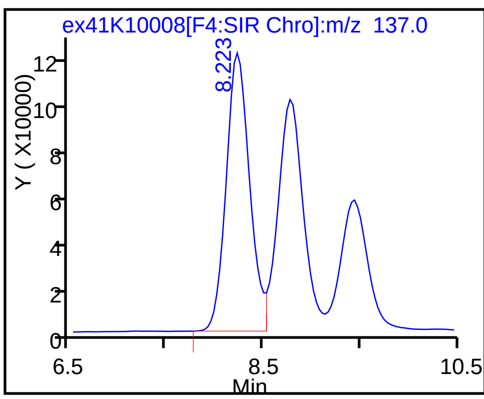
19 2,4-Dinitrotoluene



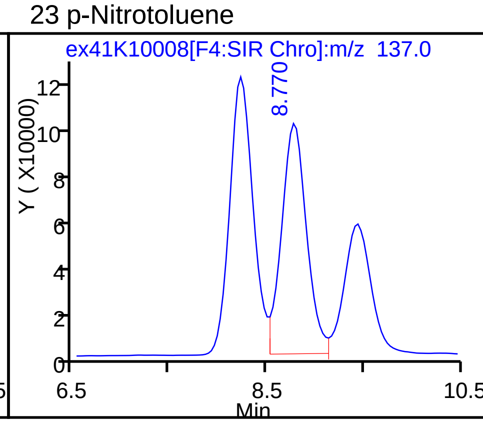
20 PETN



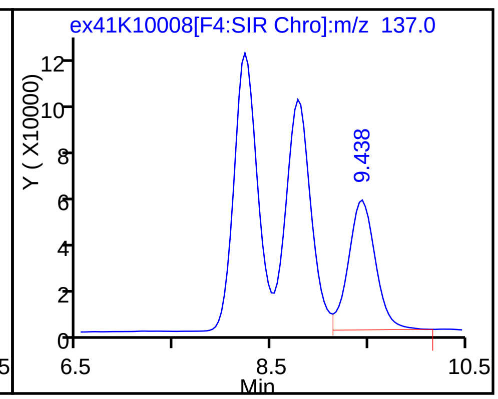
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Lims ID:	STD300	Client ID:	
Inject. Date:	10-Nov-2011 11:34:20	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	11/10/11EX7 STD300 ug/L 280-0002741-007		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	8
Lims Batch ID:	95626	Lims Sample ID:	7
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:12	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 11-Nov-2011 06:39:19

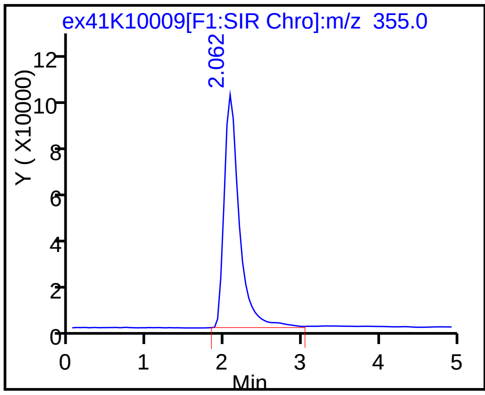
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	1398185	304.5			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		555708	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	2420123	300.6			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2110930	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	2180559	311.9			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	2532265	293.7			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1716950	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	5.035	-0.041	1.008	2317734	317.7			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	12173102	291.5			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	10237439	313.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	2310496	308.3			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	1843293	305.0			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.849	8278720	308.9			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.932	11787132	308.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.953	15743371	307.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.201	-0.031		4976910	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.013	7569395	293.8			
20 PETN										
4	61.8	7.737	7.707	0.030	1.000	13290310	294.9			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	3319727	311.2			
23 p-Nitrotoluene										
4	137.0	8.800	8.770	0.030	1.000	2930786	315.5			
24 m-Nitrotoluene										
4	137.0	9.468	9.438	0.030	1.000	1821860	313.6			

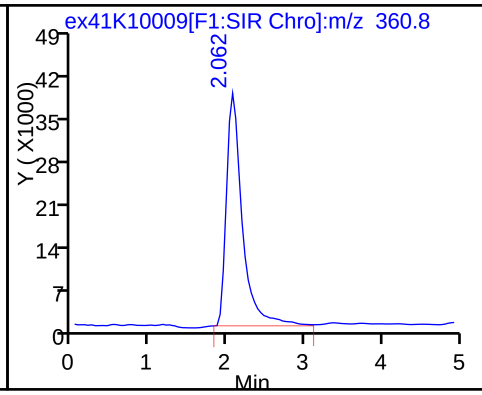
Report Date: 11-Nov-2011 06:40:13 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d

Injection Date:	10-Nov-2011 11:34:20	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	7
Operator ID:		Injection Vol:	40.00 ul

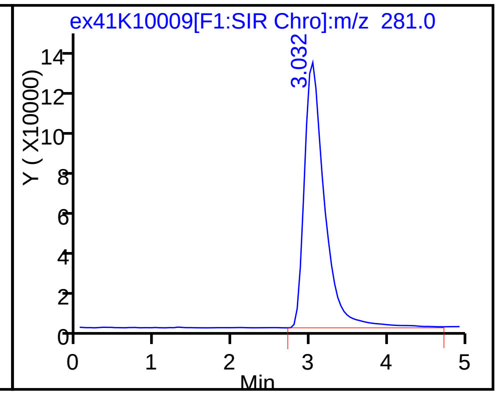
2 HMX



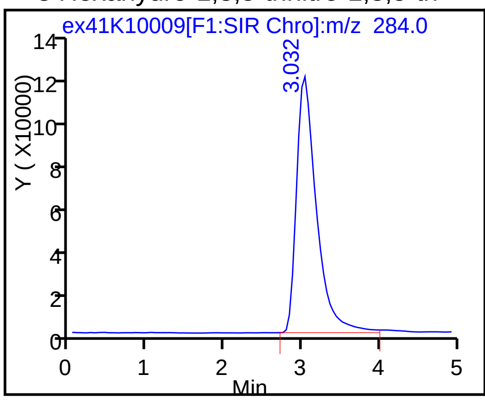
* 1 HMX-13C4



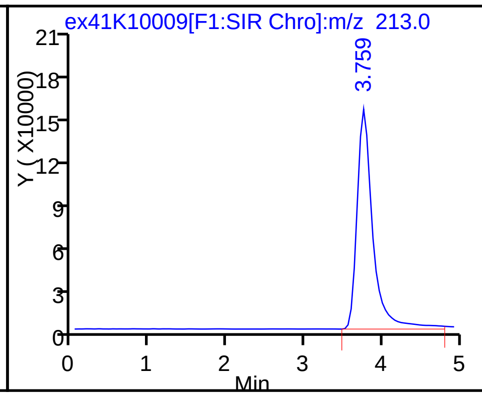
4 RDX



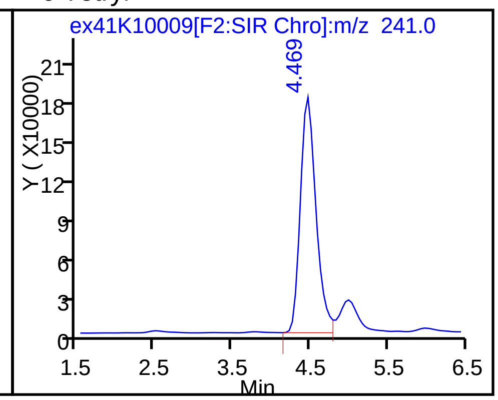
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



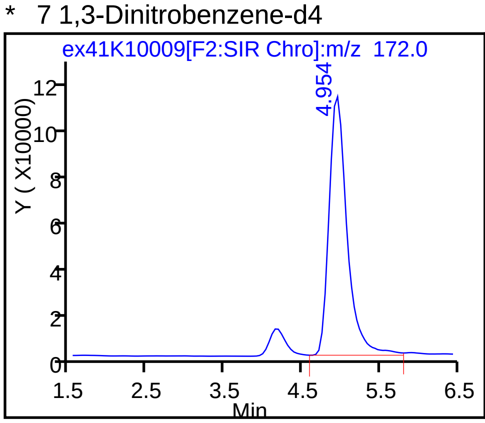
5 1,3,5-Trinitrobenzene



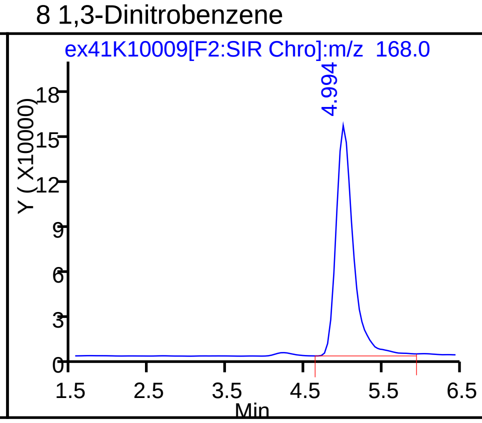
6 Tetryl



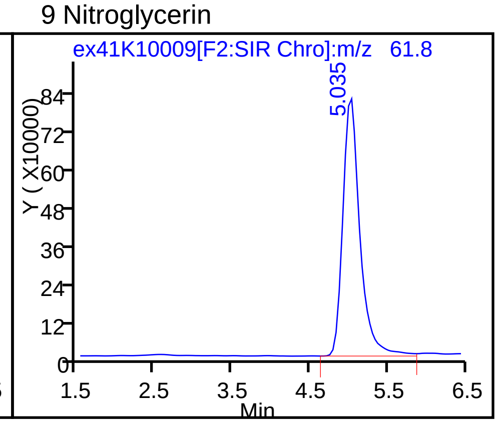
* 7 1,3-Dinitrobenzene-d4



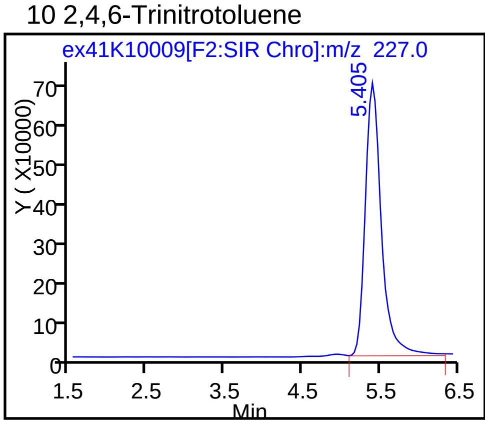
8 1,3-Dinitrobenzene



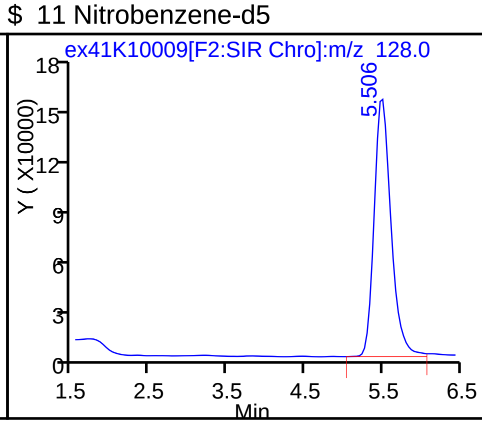
9 Nitroglycerin



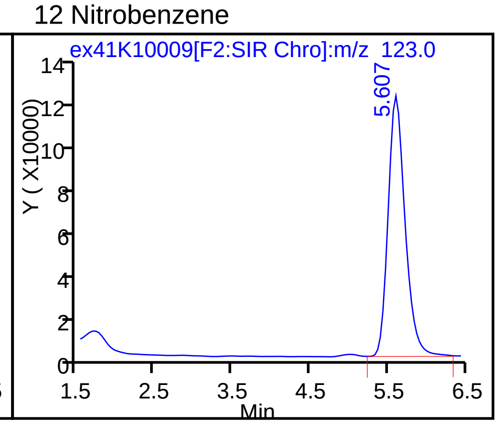
10 2,4,6-Trinitrotoluene



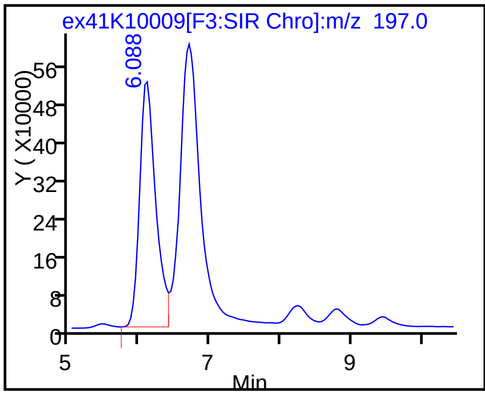
$ 11 Nitrobenzene-d5



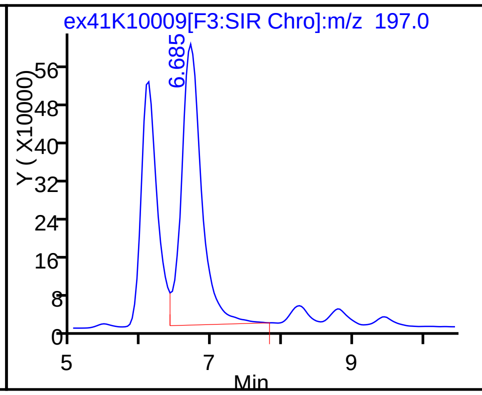
12 Nitrobenzene



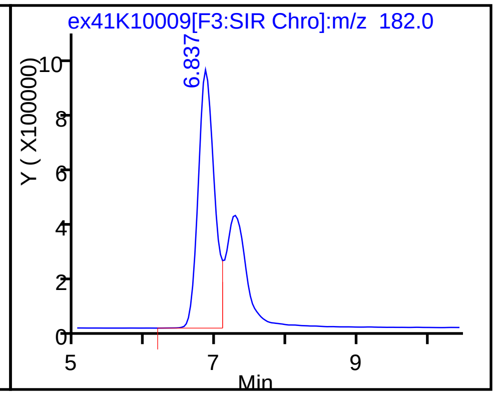
14 4-Amino-2,6-dinitrotoluene



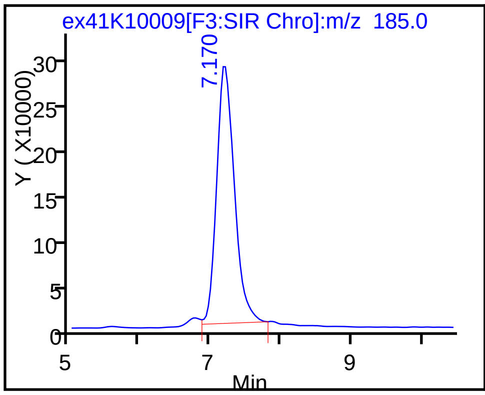
16 2-Amino-4,6-dinitrotoluene



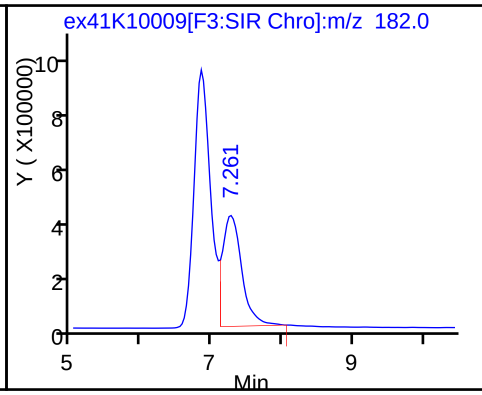
17 2,6-Dinitrotoluene



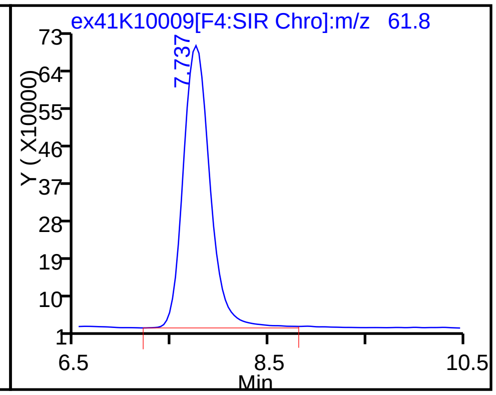
* 18 2,4-dinitrotoluene-d3



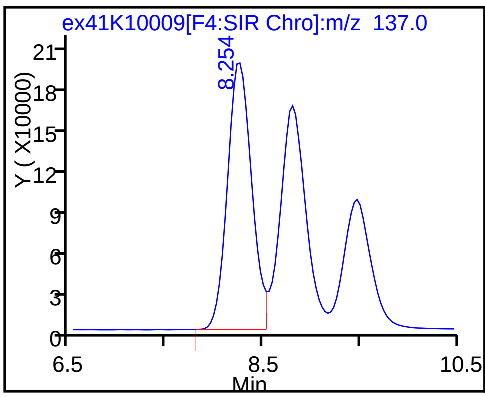
19 2,4-Dinitrotoluene



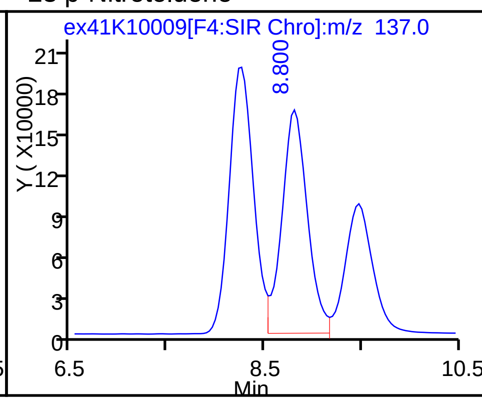
20 PETN



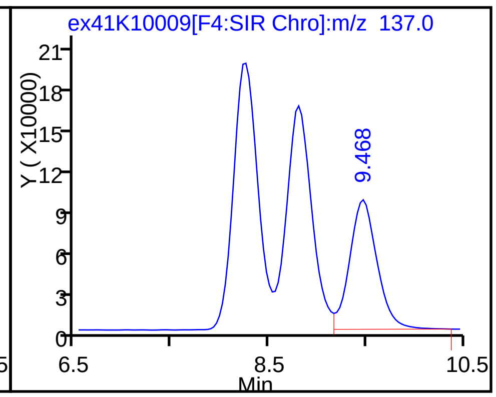
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Lab Sample ID: ICV 280-95626/10 Calibration Date: 11/10/2011 12:10

Instrument ID: LC_LCMS4 Calib Start Date: 11/10/2011 10:21

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10012.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		1.940		93.6	100	-6.4	30.0
RDX	Lin1		0.9170		95.9	100	-4.1	30.0
1,3,5-Trinitrobenzene	Lin1		0.9207		88.7	100	-11.3	30.0
Tetryl	Lin1		1.473		115	100	14.6	30.0
1,3-Dinitrobenzene	Lin1		1.134		104	100	3.7	30.0
Nitroglycerin	Lin1		6.429		102	100	1.9	30.0
2,4,6-Trinitrotoluene	Lin1		4.450		91.3	100	-8.7	30.0
Nitrobenzene	Lin1		0.8234		91.1	100	-8.9	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.242		93.0	100	-7.0	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.951		102	100	2.0	30.0
2,6-Dinitrotoluene	Lin1		2.581		101	100	0.7	30.0
2,4-Dinitrotoluene	Lin1		1.239		96.2	100	-3.8	30.0
PETN	Lin1		2.229		97.5	100	-2.5	30.0
2-Nitrotoluene	Lin1		0.5136		96.6	100	-3.4	30.0
4-Nitrotoluene	Lin1		0.4258		92.3	100	-7.7	30.0
3-Nitrotoluene	Lin1		0.2617		90.2	100	-9.8	30.0
Nitrobenzene-d5	Lin1		1.040		92.1	100	-7.9	30.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10012.d		
Lims ID:	ICV	Client ID:	
Inject. Date:	10-Nov-2011 12:10:35	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	11/10/11ICV ICV 280-0002741-010		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	9
Lims Batch ID:	95626	Lims Sample ID:	10
Sublist:			
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:12	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

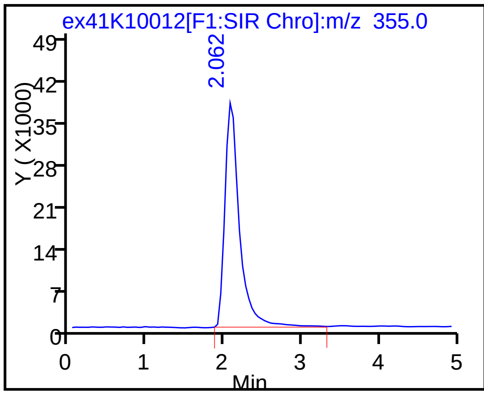
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	500591	93.6			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		644949	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	988017	95.9			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2693593	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.759	0.040	1.000	706690	88.7			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.903	1130835	114.6			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1985956	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.035	0.033	1.015	870395	103.7			
9 Nitroglycerin										
2	61.8	5.068	5.035	0.033	1.015	4934735	101.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.472	5.405	0.067	1.096	3415980	91.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	798772	92.1			
12 Nitrobenzene										
2	123.0	5.640	5.607	0.033	1.129	632081	91.1			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.088	0.068	0.848	2689664	93.0			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.776	6.685	0.091	0.933	4225417	102.0			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.837	0.060	0.950	5590322	100.7			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.201	0.061		5415194	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.322	7.261	0.061	1.008	2684041	96.2			
20 PETN										
4	61.8	7.828	7.707	0.121	1.000	4828156	97.5			
22 o-Nitrotoluene										
4	137.0	8.314	8.254	0.060	1.000	1112442	96.6			
23 p-Nitrotoluene										
4	137.0	8.861	8.770	0.091	1.000	922217	92.3			
24 m-Nitrotoluene										
4	137.0	9.529	9.438	0.091	1.000	566782	90.2			

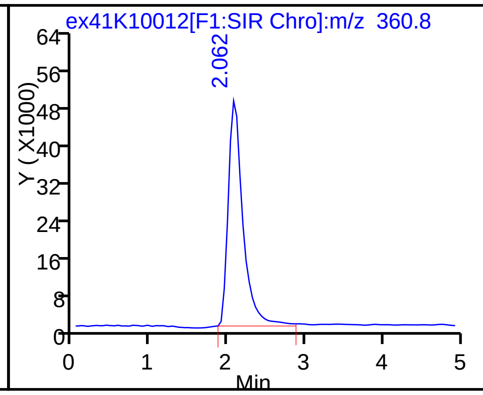
Report Date: 11-Nov-2011 06:40:16 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10012.d

Injection Date:	10-Nov-2011 12:10:35	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	10
Operator ID:		Injection Vol:	40.00 ul

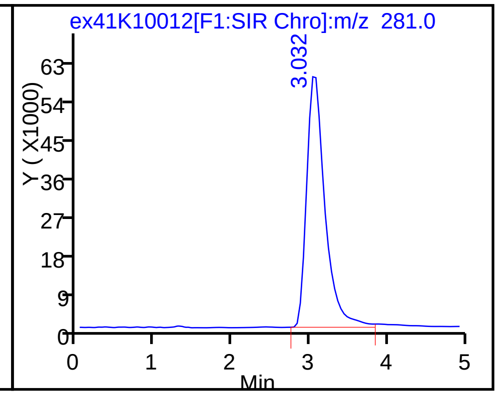
2 HMX



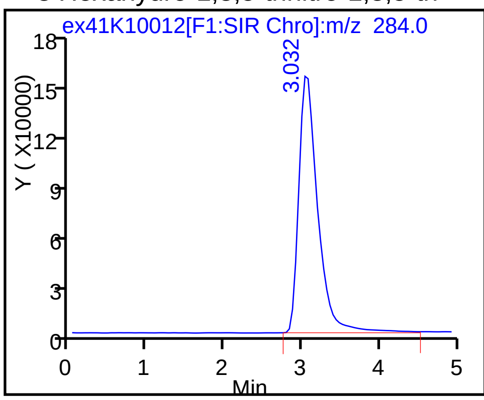
* 1 HMX-13C4



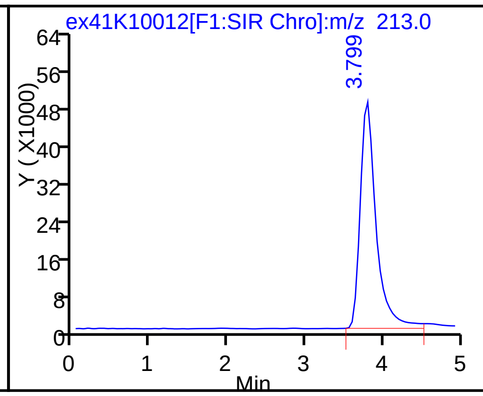
4 RDX



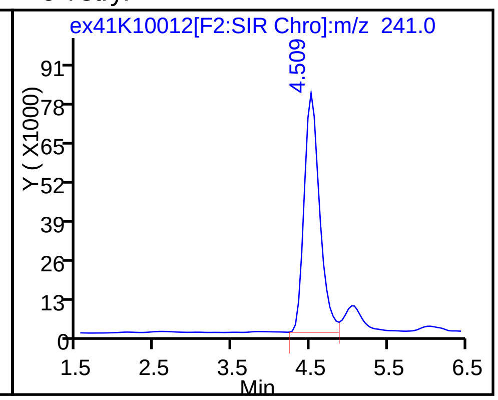
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



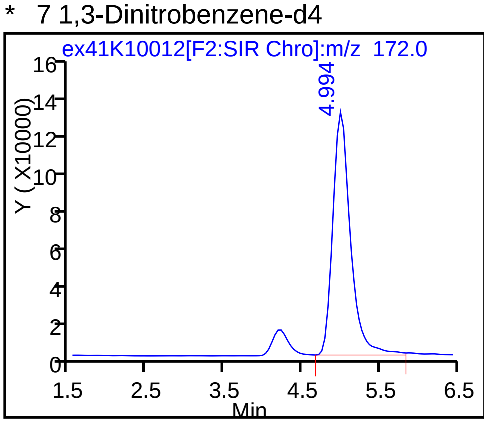
5 1,3,5-Trinitrobenzene



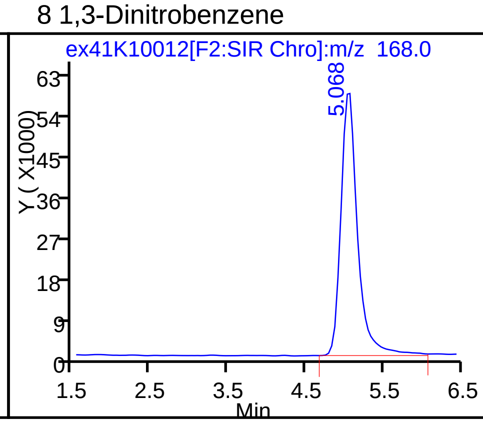
6 Tetryl



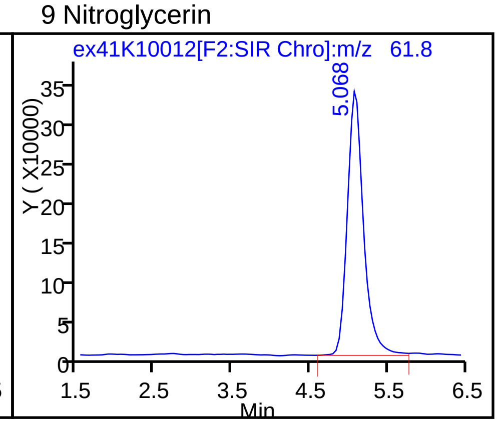
* 7 1,3-Dinitrobenzene-d4



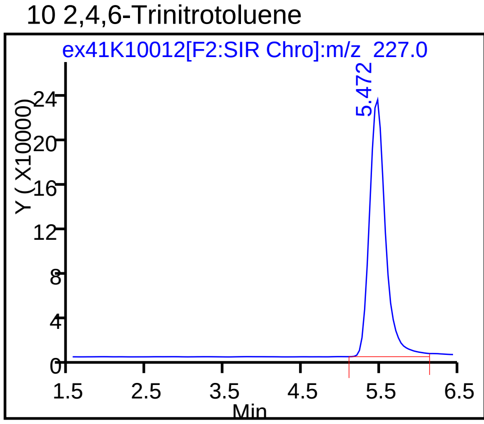
8 1,3-Dinitrobenzene



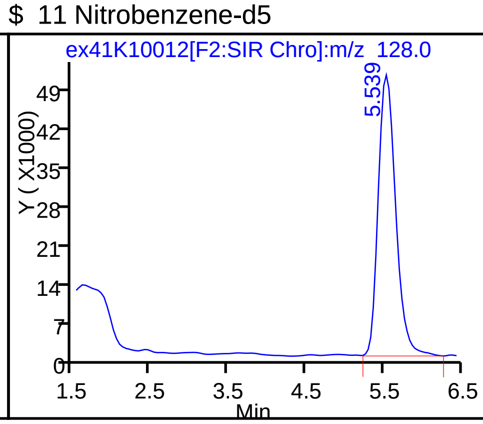
9 Nitroglycerin



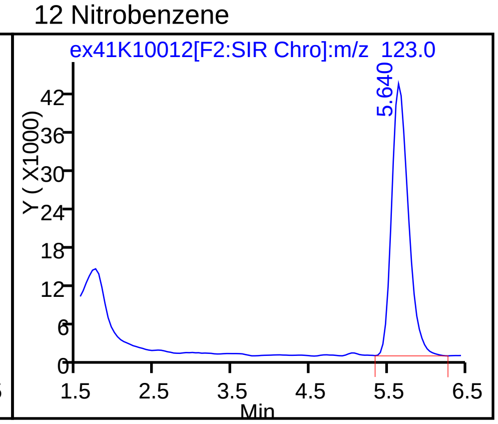
10 2,4,6-Trinitrotoluene



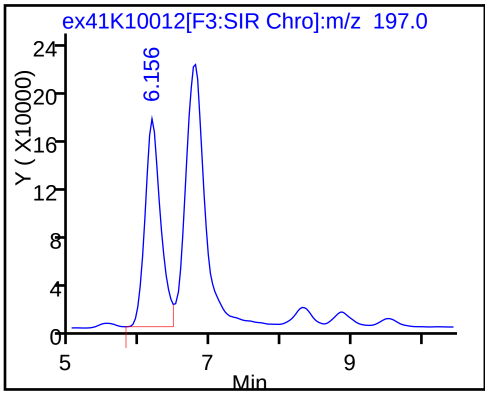
$ 11 Nitrobenzene-d5



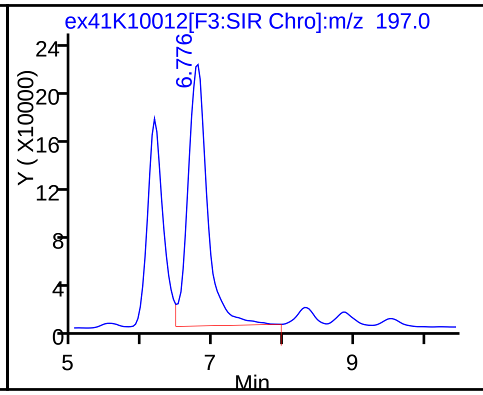
12 Nitrobenzene



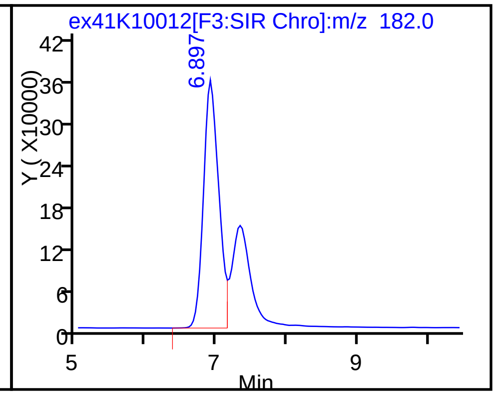
14 4-Amino-2,6-dinitrotoluene



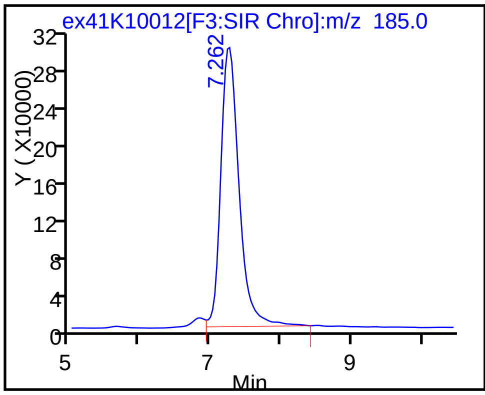
16 2-Amino-4,6-dinitrotoluene



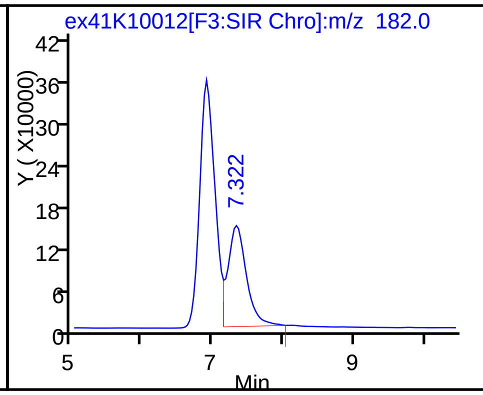
17 2,6-Dinitrotoluene



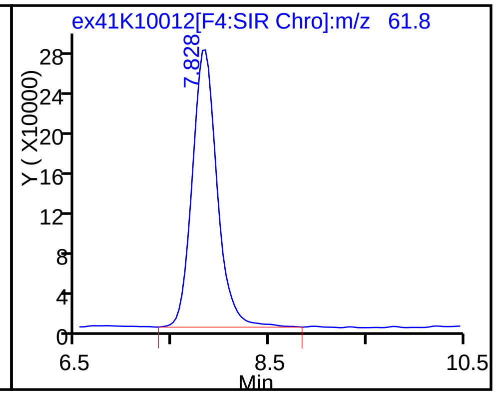
* 18 2,4-dinitrotoluene-d3



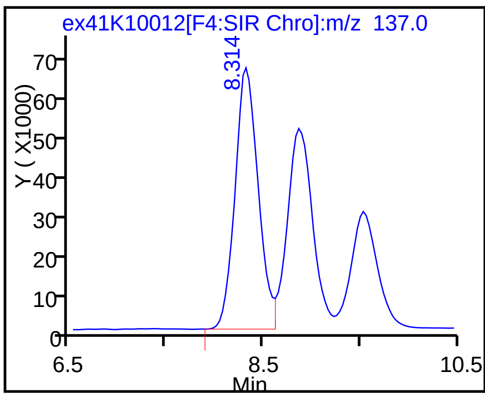
19 2,4-Dinitrotoluene



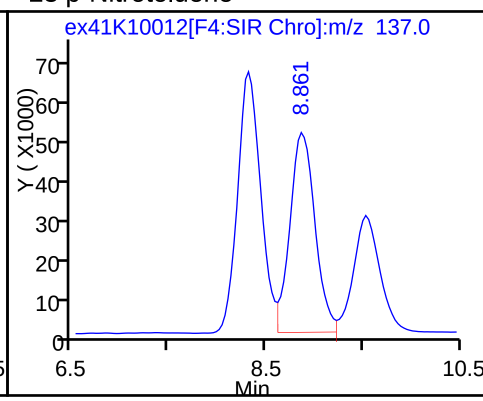
20 PETN



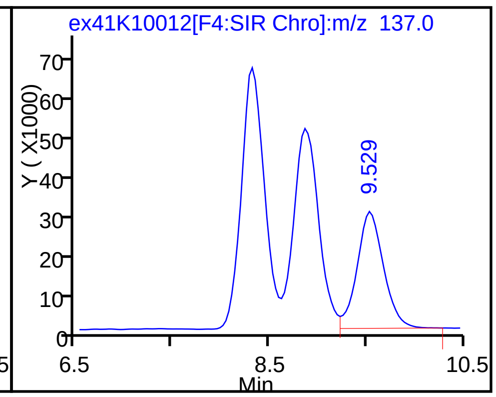
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Lab Sample ID: CCV 280-95629/19 Calibration Date: 11/10/2011 14:01

Instrument ID: LC_LCMS4 Calib Start Date: 11/10/2011 10:21

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10021.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.052		49.3	50.0	-1.4	30.0
RDX	Lin1		1.019		52.4	49.4	6.2	30.0
1,3,5-Trinitrobenzene	Lin1		1.016		49.8	50.1	-0.5	30.0
Tetryl	Lin1		1.084		43.2	49.7	-13.1	30.0
1,3-Dinitrobenzene	Lin1		1.105		51.6	50.7	1.8	30.0
Nitroglycerin	Lin1		6.200		48.9	50.0	-2.2	30.0
2,4,6-Trinitrotoluene	Lin1		5.065		52.6	50.1	5.1	30.0
Nitrobenzene	Lin1		0.8213		45.9	50.0	-8.1	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.468		54.6	49.4	10.6	30.0
2-Amino-4,6-dinitrotoluene	Lin1		2.047		53.8	50.1	7.5	30.0
2,6-Dinitrotoluene	Lin1		2.481		48.8	50.1	-2.5	30.0
2,4-Dinitrotoluene	Lin1		1.288		50.5	50.2	0.7	30.0
PETN	Lin1		2.284		49.1	49.9	-1.6	30.0
2-Nitrotoluene	Lin1		0.4882		46.1	49.6	-7.0	30.0
4-Nitrotoluene	Lin1		0.4227		46.3	49.8	-6.9	30.0
3-Nitrotoluene	Lin1		0.2717		46.7	49.4	-5.5	30.0
Nitrobenzene-d5	Lin1		1.085		48.1	50.0	-3.8	30.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10021.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	10-Nov-2011 14:01:54	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/10/11EX4 CCV 50 ug/L 280-0002741-019		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	95629	Lims Sample ID:	19
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:25	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

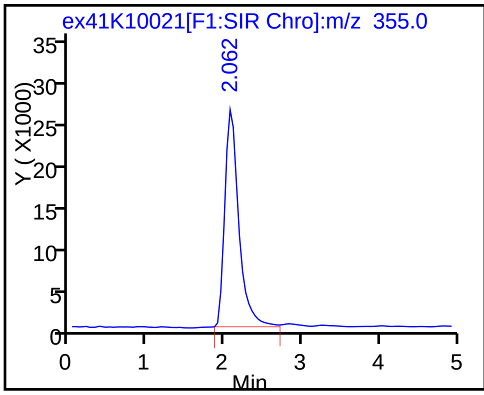
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	328544	49.3			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		800380	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	534404	52.4			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2657549	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	373330	49.8			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	395302	43.2			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1898911	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	5.035	0.000	1.016	411299	51.6			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	2275325	48.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	1860660	52.6			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	398356	48.1			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	301099	45.9			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.122	0.000	0.850	1496451	54.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.715	6.715	0.000	0.932	2116663	53.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	2565316	48.8			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5165297	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.013	1334890	50.5			
20 PETN										
4	61.8	7.737	7.737	0.000	1.000	2355060	49.1			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	499773	46.1			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	434481	46.3			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	277349	46.7			

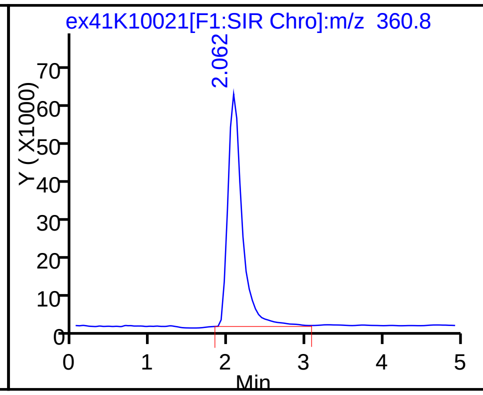
Report Date: 11-Nov-2011 06:40:25 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10021.d

Injection Date:	10-Nov-2011 14:01:54	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	19
Operator ID:		Injection Vol:	40.00 ul

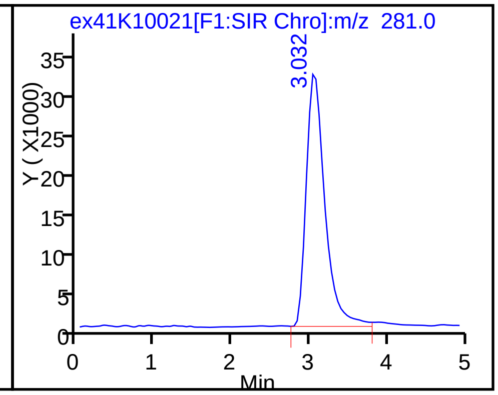
2 HMX



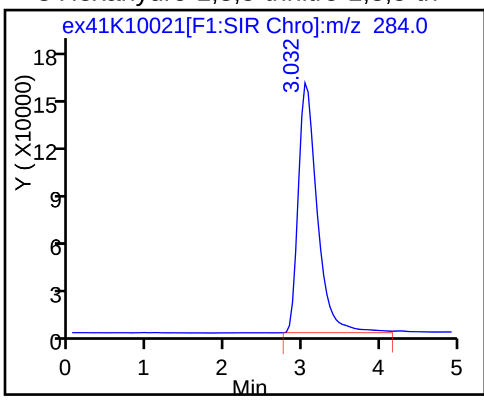
* 1 HMX-13C4



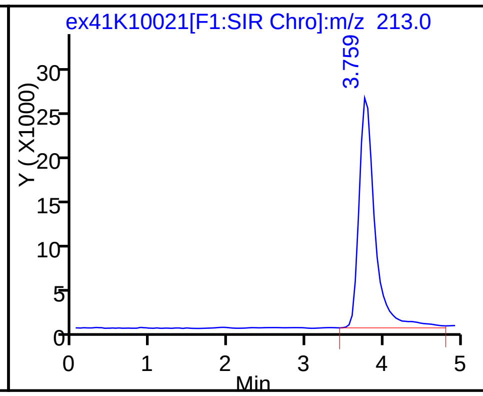
4 RDX



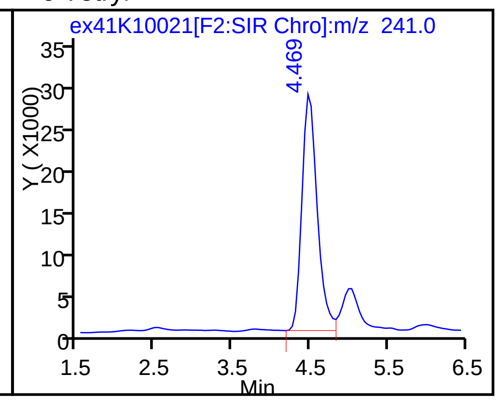
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



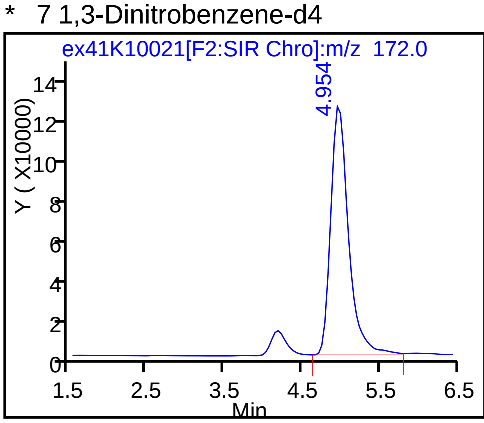
5 1,3,5-Trinitrobenzene



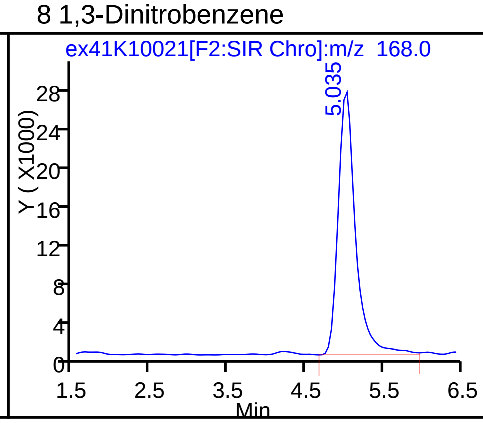
6 Tetryl



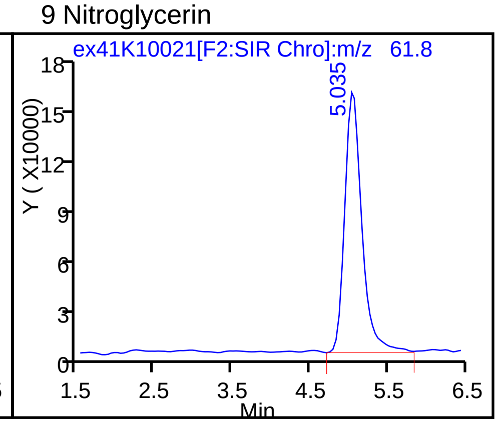
* 7 1,3-Dinitrobenzene-d4



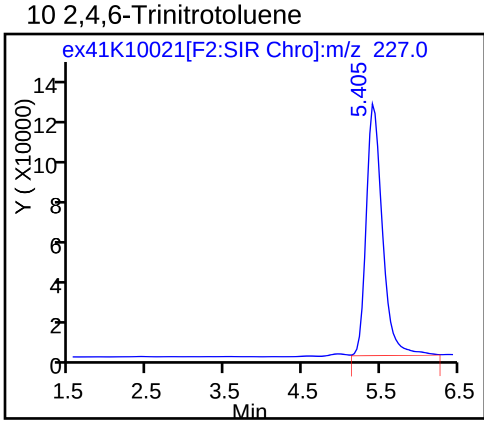
8 1,3-Dinitrobenzene



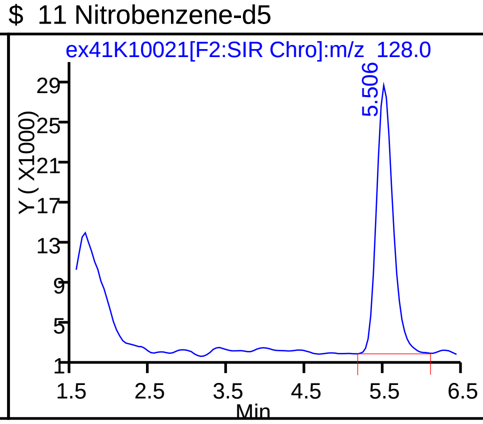
9 Nitroglycerin



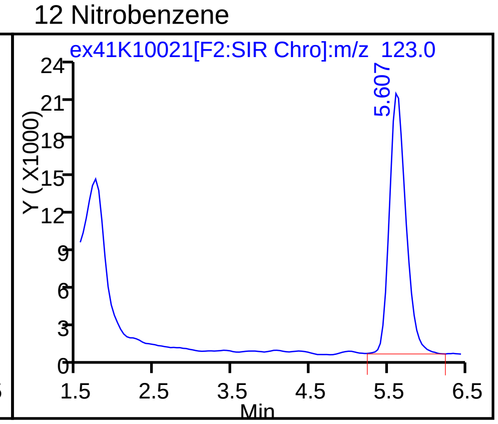
10 2,4,6-Trinitrotoluene



$ 11 Nitrobenzene-d5

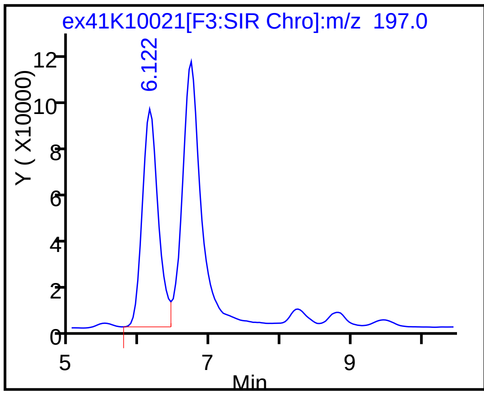


12 Nitrobenzene

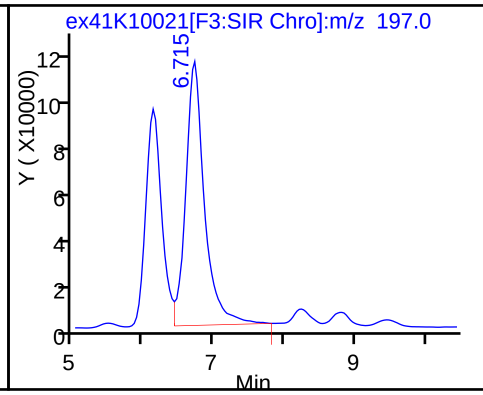


Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10021.d

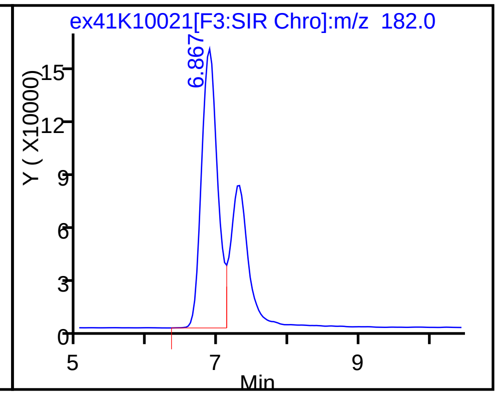
14 4-Amino-2,6-dinitrotoluene



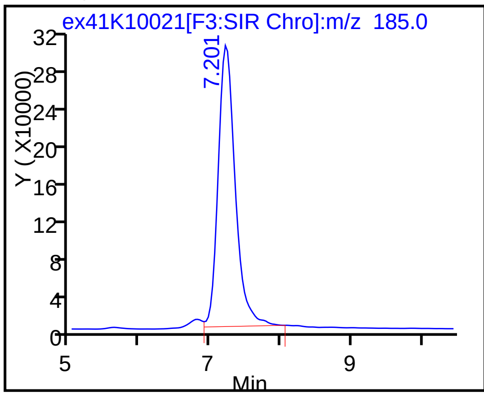
16 2-Amino-4,6-dinitrotoluene



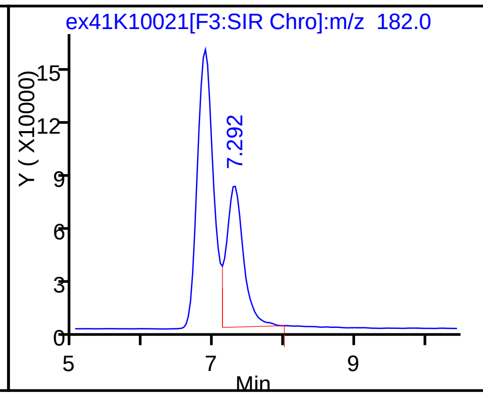
17 2,6-Dinitrotoluene



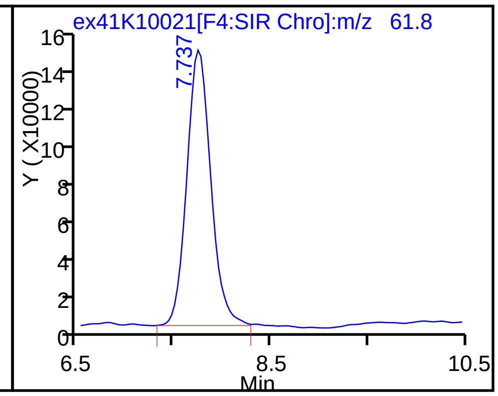
* 18 2,4-dinitrotoluene-d3



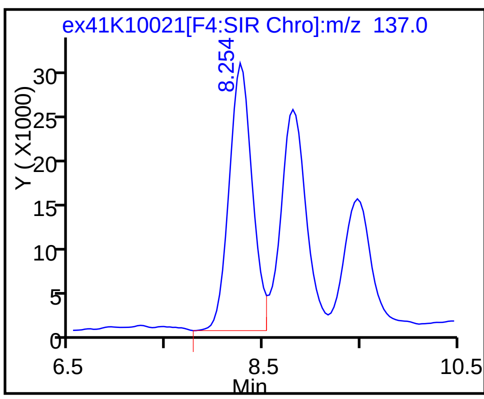
19 2,4-Dinitrotoluene



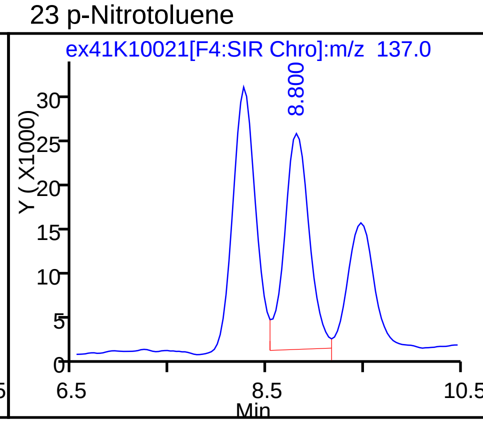
20 PETN



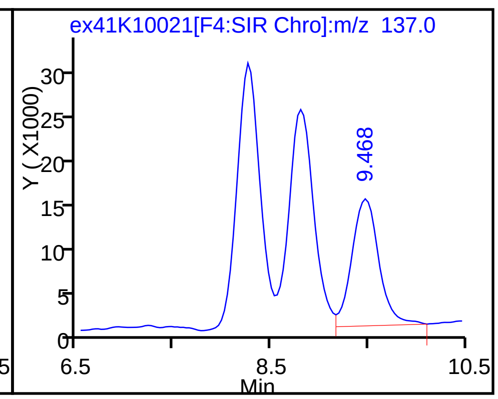
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Lab Sample ID: CCV 280-95629/28 Calibration Date: 11/10/2011 15:51

Instrument ID: LC_LCMS4 Calib Start Date: 11/10/2011 10:21

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10030.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		1.995		96.3	100	-3.7	30.0
RDX	Lin1		0.9360		96.6	98.7	-2.1	30.0
1,3,5-Trinitrobenzene	Lin1		0.9366		90.3	100	-9.8	30.0
Tetryl	Lin1		1.229		95.4	99.4	-4.0	30.0
1,3-Dinitrobenzene	Lin1		0.9853		91.4	101	-9.9	30.0
Nitroglycerin	Lin1		6.449		102	100	2.2	30.0
2,4,6-Trinitrotoluene	Lin1		4.583		94.1	100	-6.0	30.0
Nitrobenzene	Lin1		0.8453		93.4	99.9	-6.5	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.311		96.8	98.7	-1.9	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.743		91.3	100	-8.8	30.0
2,6-Dinitrotoluene	Lin1		2.387		93.3	100	-6.8	30.0
2,4-Dinitrotoluene	Lin1		1.293		101	100	0.4	30.0
PETN	Lin1		2.539		111	99.8	11.2	30.0
2-Nitrotoluene	Lin1		0.5133		95.7	99.1	-3.4	30.0
4-Nitrotoluene	Lin1		0.4451		96.0	99.5	-3.5	30.0
3-Nitrotoluene	Lin1		0.2903		98.8	98.8	0.0	30.0
Nitrobenzene-d5	Lin1		1.056		93.5	100	-6.5	30.0

FORM VII 8321B

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Lab Sample ID: CCV 280-95630/28 Calibration Date: 11/10/2011 15:51

Instrument ID: LC_LCMS4 Calib Start Date: 11/10/2011 10:21

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10030.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		1.995		96.3	100	-3.7	30.0
RDX	Lin1		0.9360		96.6	98.7	-2.1	30.0
1,3,5-Trinitrobenzene	Lin1		0.9366		90.3	100	-9.8	30.0
Tetryl	Lin1		1.229		95.4	99.4	-4.0	30.0
1,3-Dinitrobenzene	Lin1		0.9853		91.4	101	-9.9	30.0
Nitroglycerin	Lin1		6.449		102	100	2.2	30.0
2,4,6-Trinitrotoluene	Lin1		4.583		94.1	100	-6.0	30.0
Nitrobenzene	Lin1		0.8453		93.4	99.9	-6.5	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.311		96.8	98.7	-1.9	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.743		91.3	100	-8.8	30.0
2,6-Dinitrotoluene	Lin1		2.387		93.3	100	-6.8	30.0
2,4-Dinitrotoluene	Lin1		1.293		101	100	0.4	30.0
PETN	Lin1		2.539		111	99.8	11.2	30.0
2-Nitrotoluene	Lin1		0.5133		95.7	99.1	-3.4	30.0
4-Nitrotoluene	Lin1		0.4451		96.0	99.5	-3.5	30.0
3-Nitrotoluene	Lin1		0.2903		98.8	98.8	0.0	30.0
Nitrobenzene-d5	Lin1		1.056		93.5	100	-6.5	30.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10030.d
Lims ID: CCV
Client ID:
Inject. Date: 10-Nov-2011 15:51:27
Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 11/10/11EX5 CCV 100 ug/L 280-0002741-028
Misc. Info.: ex41K10 0.1%HAC
Operator:
Instrument ID: LC_LCMS4
Vol. Injected: 40.0000
ALS Bottle#: 6
Lims Batch ID: 95629
Lims Sample ID: 28
Sublist: chrom-8321exp4-25*sub4
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m
Last Update: 11-Nov-2011 06:40:31
Calib Date: 10-Nov-2011 11:34:20
Quant Method: Internal Standard
Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	667515	96.3			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		836351	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	1068139	96.6			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2890487	250.0			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	663073	90.3			
	6 Tetryl									
2	241.0	4.469	4.469	0.000	0.902	864193	95.4			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		1829870	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	4.994	4.994	0.000	1.008	706666	91.4			
	9 Nitroglycerin									
2	61.8	5.034	5.034	0.000	1.016	4561196	102.2			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.405	5.405	0.000	1.091	3244437	94.1			
$	11 Nitrobenzene-d5									
2	128.0	5.472	5.472	0.000	1.105	746772	93.5			
	12 Nitrobenzene									
2	123.0	5.607	5.607	0.000	1.132	597257	93.4			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.088	6.088	0.000	0.849	2310637	96.8			
	16 2-Amino-4,6-dinitrotoluene									
3	197.0	6.685	6.685	0.000	0.932	3115657	91.3			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.953	4267319	93.3			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.170	0.000		4464441	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.013	2316632	100.7			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	4525464	111.0			
22 o-Nitrotoluene										
4	137.0	8.223	8.223	0.000	1.000	908408	95.7			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	790879	96.0			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	512203	98.8			

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10030.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	10-Nov-2011 15:51:27	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/10/11EX5 CCV 100 ug/L 280-0002741-028		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	95630	Lims Sample ID:	28
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:31	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
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1	355.0	2.062	2.062	0.000	1.000	667515	96.3			
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2	123.0	5.607	5.607	0.000	1.132	597257	93.4			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.849	2310637	96.8			
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3	182.0	7.261	7.261	0.000	1.013	2316632	100.7			
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4	61.8	7.707	7.707	0.000	1.000	4525464	111.0			
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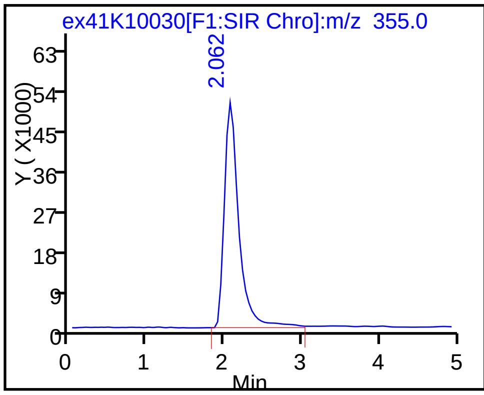
4	137.0	8.223	8.223	0.000	1.000	908408	95.7			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	790879	96.0			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	512203	98.8			

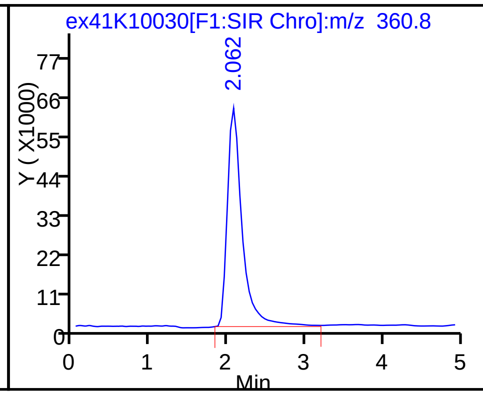
Report Date: 11-Nov-2011 06:40:31 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10030.d

Injection Date:	10-Nov-2011 15:51:27	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	28
Operator ID:		Injection Vol:	40.00 ul

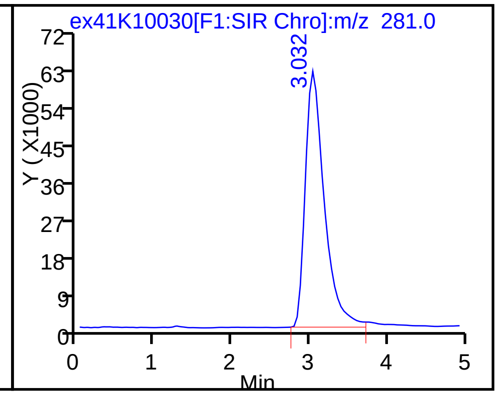
2 HMX



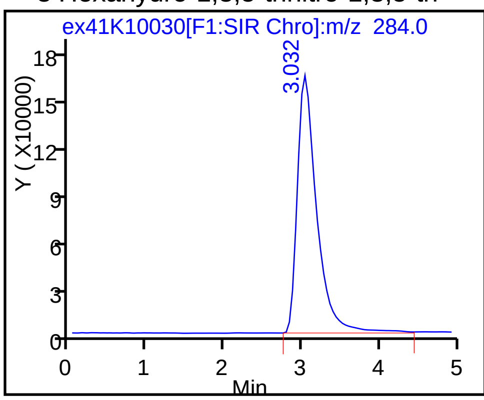
* 1 HMX-13C4



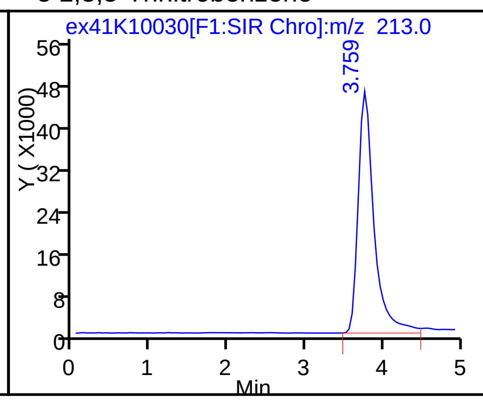
4 RDX



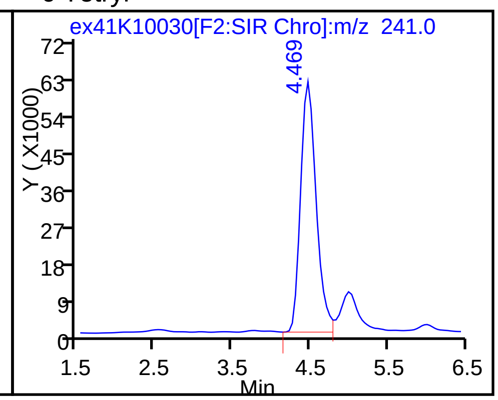
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



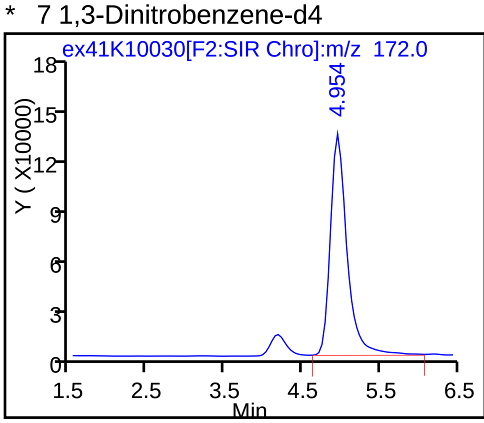
5 1,3,5-Trinitrobenzene



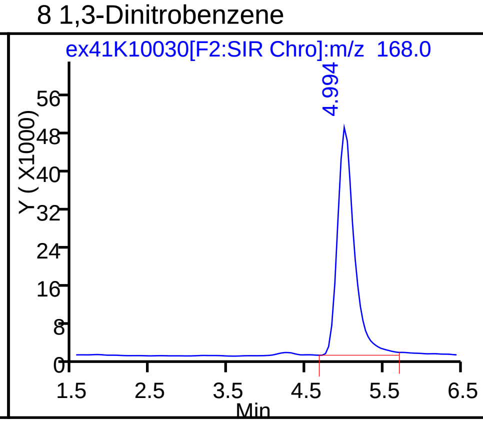
6 Tetryl



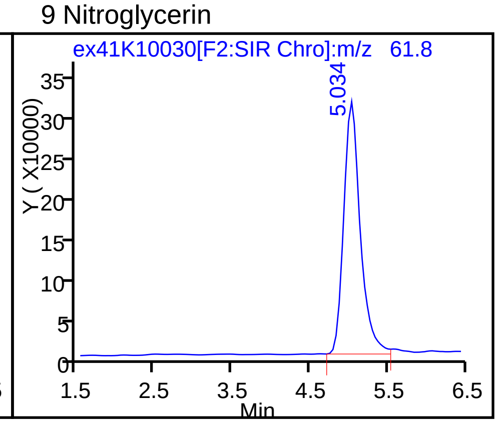
* 7 1,3-Dinitrobenzene-d4



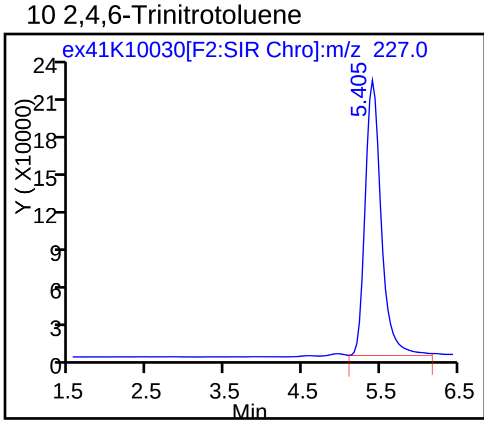
8 1,3-Dinitrobenzene



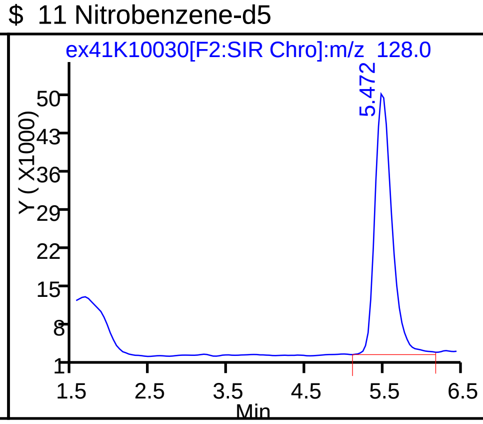
9 Nitroglycerin



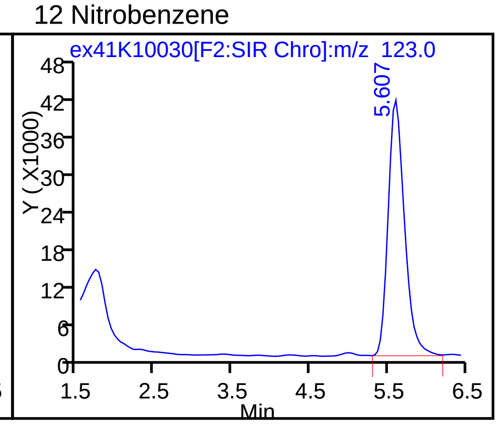
10 2,4,6-Trinitrotoluene



$ 11 Nitrobenzene-d5

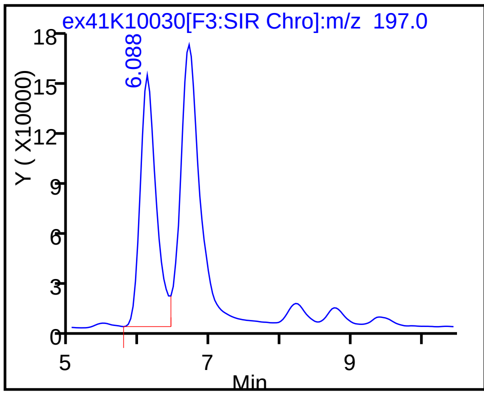


12 Nitrobenzene

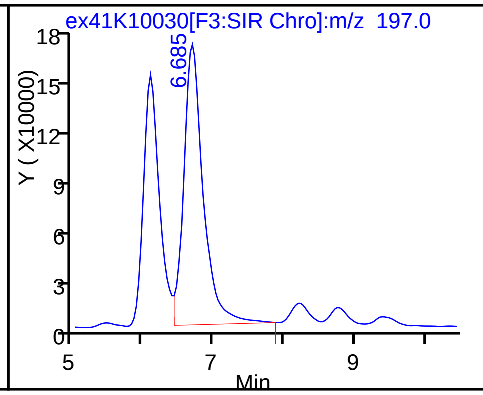


Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10030.d

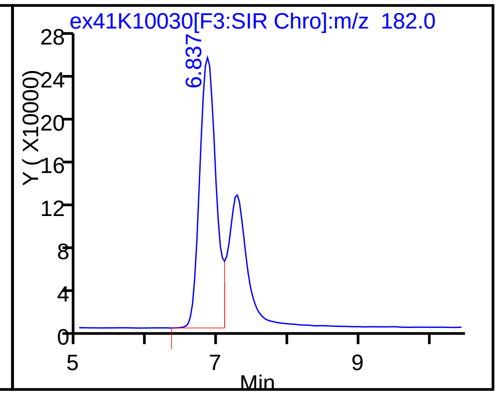
14 4-Amino-2,6-dinitrotoluene



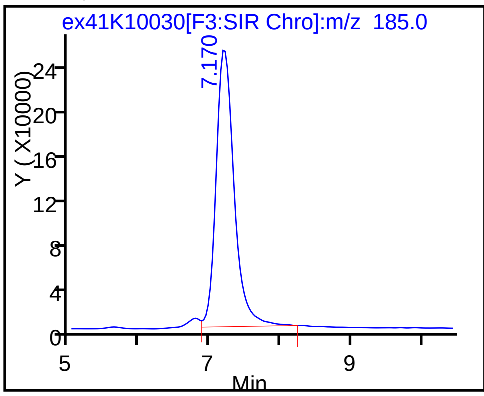
16 2-Amino-4,6-dinitrotoluene



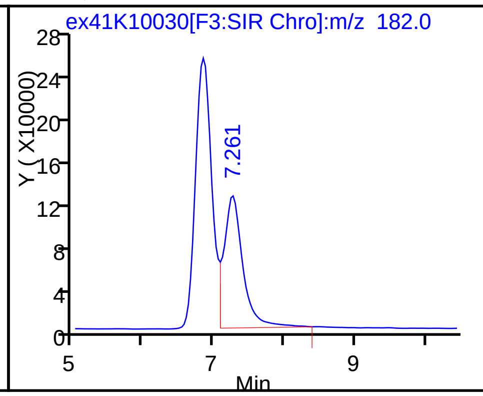
17 2,6-Dinitrotoluene



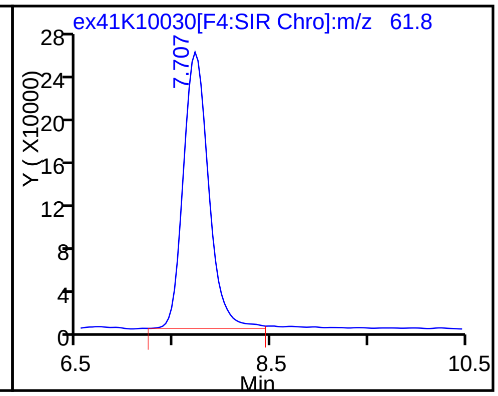
* 18 2,4-dinitrotoluene-d3



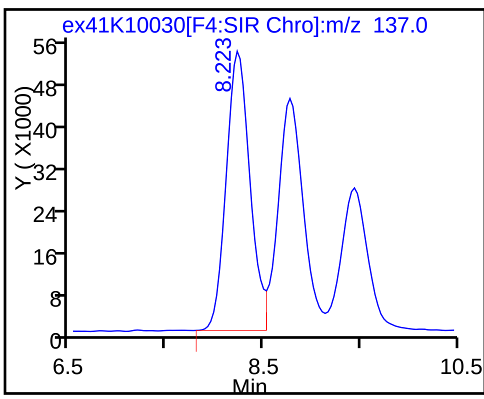
19 2,4-Dinitrotoluene



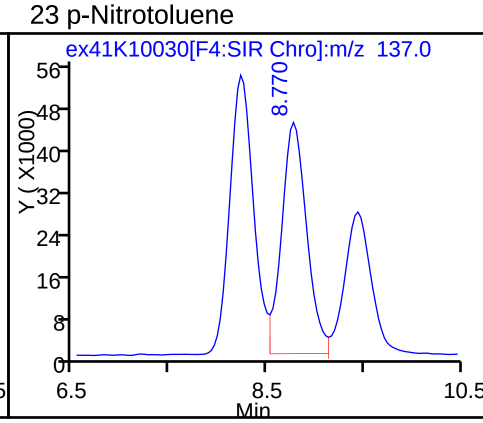
20 PETN



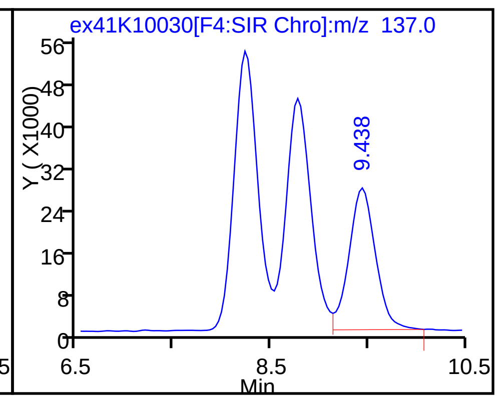
22 o-Nitrotoluene



23 p-Nitrotoluene

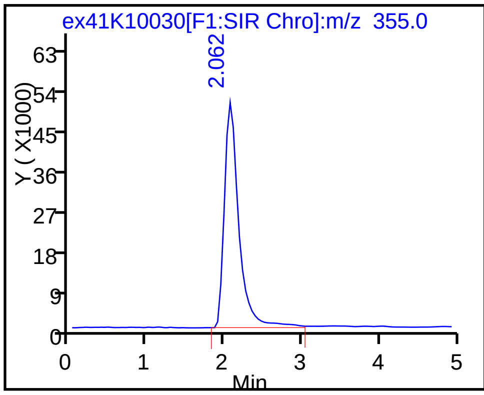


24 m-Nitrotoluene

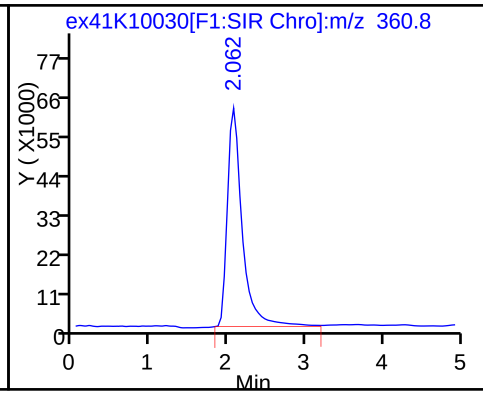


Report Date: 11-Nov-2011 06:40:32		Chrom Revision: 1.2 13-Jul-2011 10:43:06	
Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10030.d		
Injection Date:	10-Nov-2011 15:51:27	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	28
Operator ID:		Injection Vol:	40.00 ul

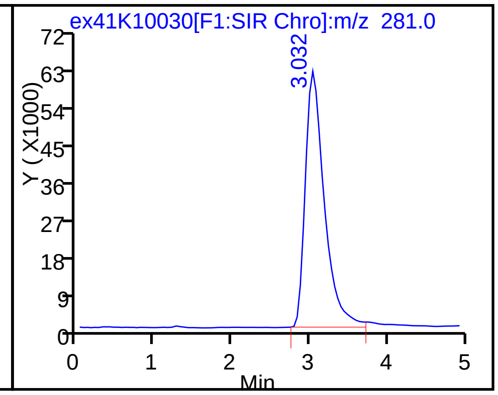
2 HMX



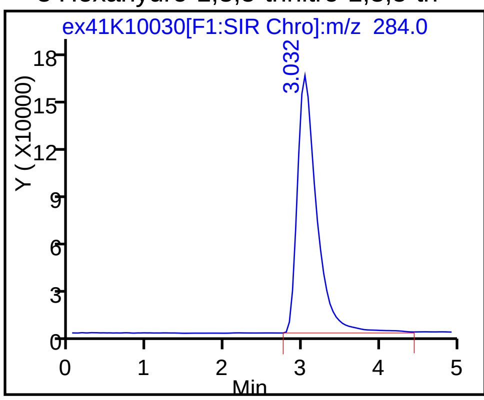
* 1 HMX-13C4



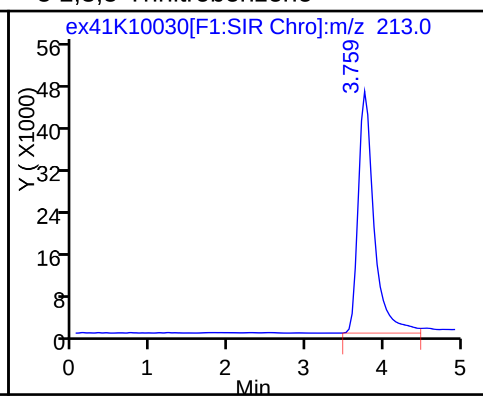
4 RDX



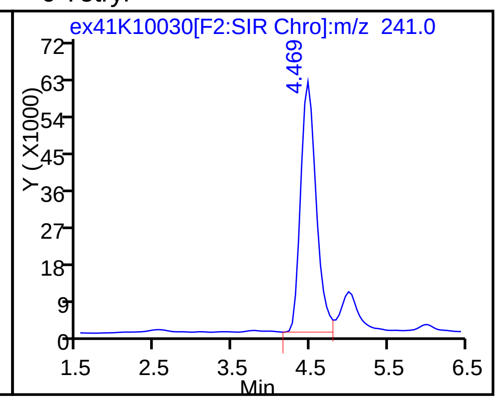
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



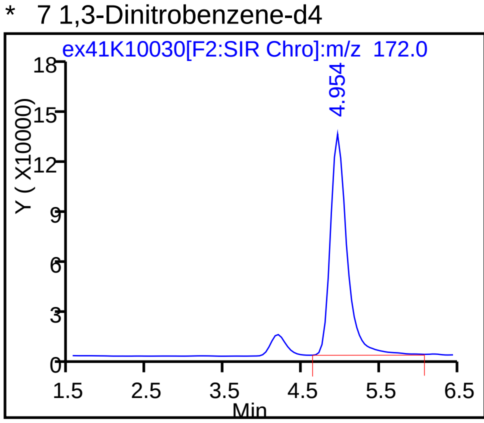
5 1,3,5-Trinitrobenzene



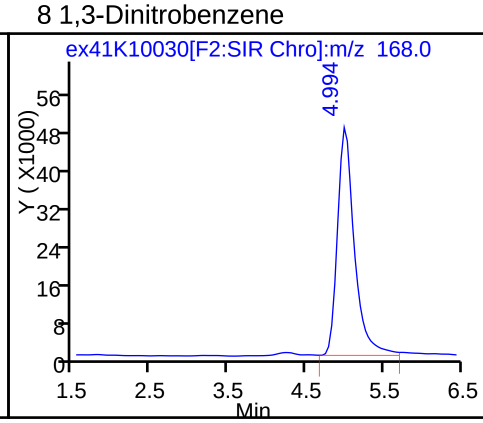
6 Tetryl



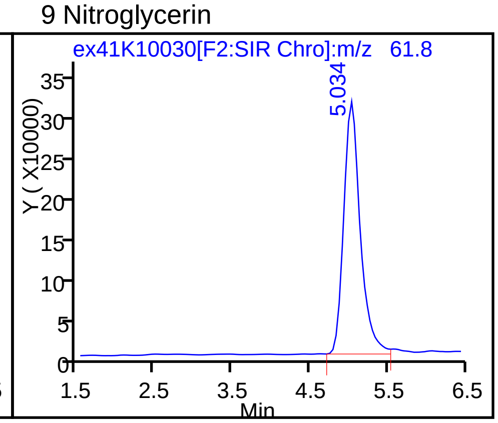
* 7 1,3-Dinitrobenzene-d4



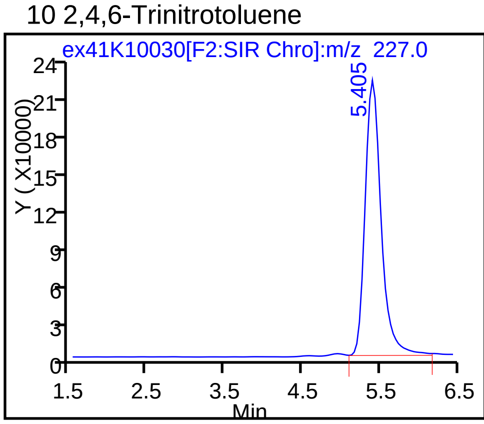
8 1,3-Dinitrobenzene



9 Nitroglycerin



10 2,4,6-Trinitrotoluene



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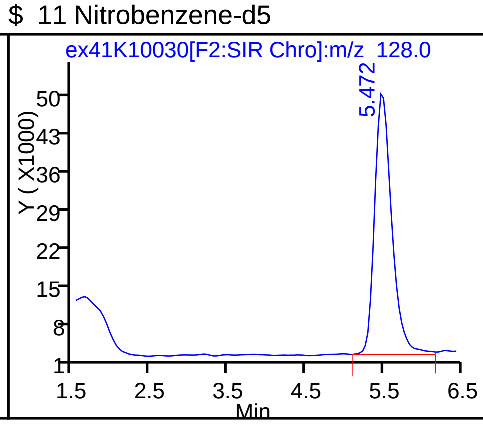
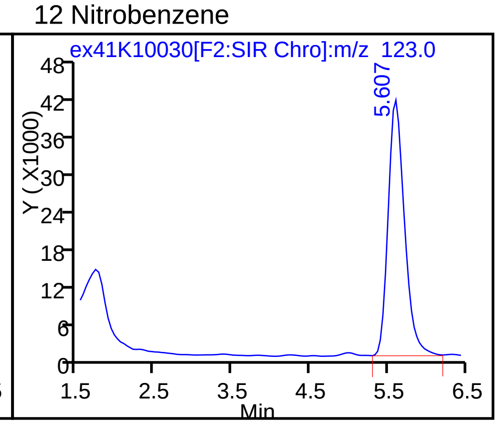
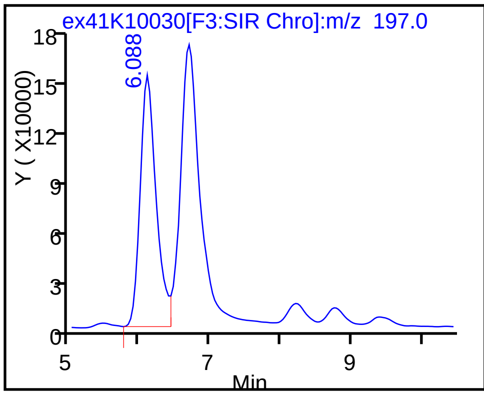


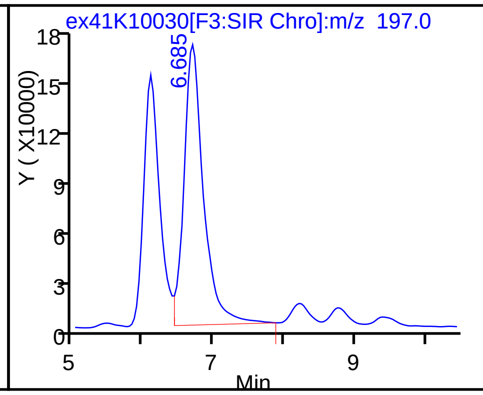
12 Nitrobenzene



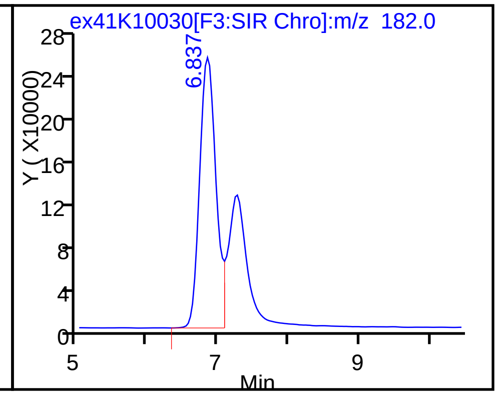
14 4-Amino-2,6-dinitrotoluene



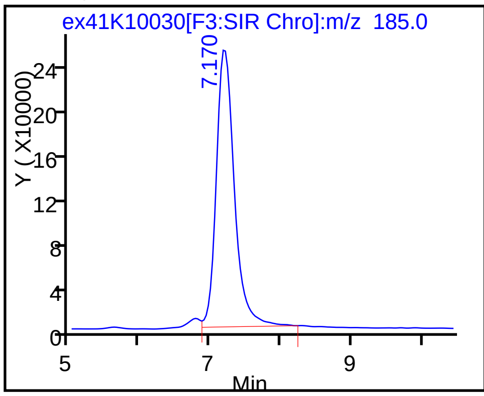
16 2-Amino-4,6-dinitrotoluene



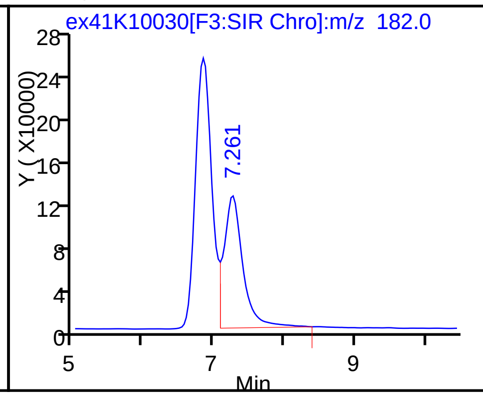
17 2,6-Dinitrotoluene



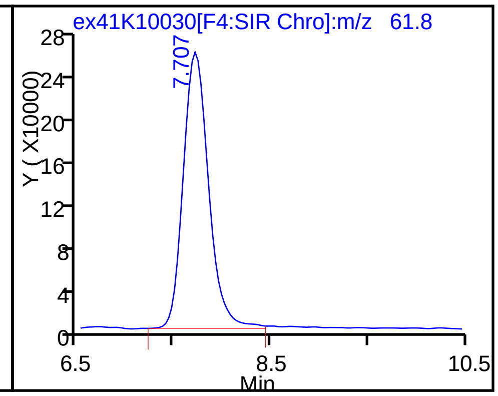
* 18 2,4-dinitrotoluene-d3



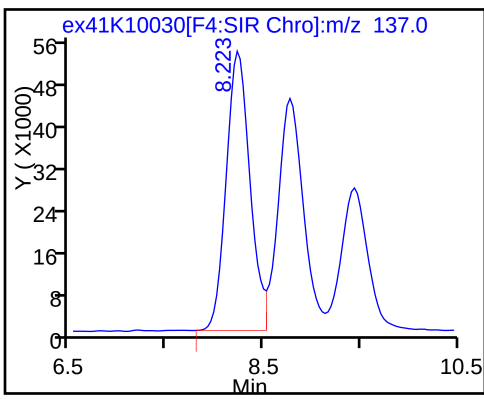
19 2,4-Dinitrotoluene



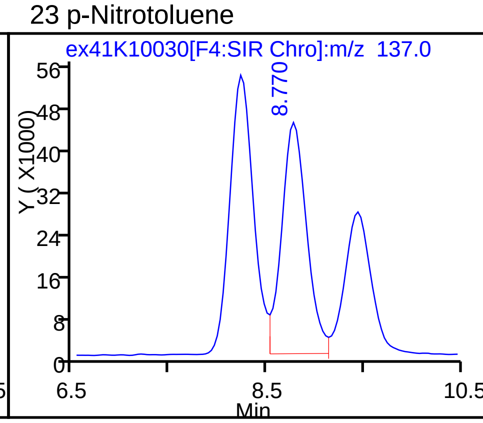
20 PETN



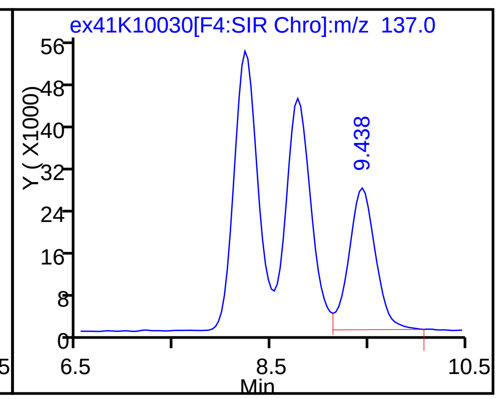
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Lab Sample ID: CCV 280-95630/35 Calibration Date: 11/10/2011 17:16

Instrument ID: LC_LCMS4 Calib Start Date: 11/10/2011 10:21

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10037.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.227		53.6	50.0	7.2	30.0
RDX	Lin1		0.998		51.3	49.4	4.0	30.0
1,3,5-Trinitrobenzene	Lin1		0.9673		47.5	50.1	-5.1	30.0
Tetryl	Lin1		1.035		41.4	49.7	-16.7	30.0
1,3-Dinitrobenzene	Lin1		1.074		50.2	50.7	-1.0	30.0
Nitroglycerin	Lin1		6.358		50.2	50.0	0.4	30.0
2,4,6-Trinitrotoluene	Lin1		4.839		50.4	50.1	0.7	30.0
Nitrobenzene	Lin1		0.8425		47.1	50.0	-5.7	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.267		47.3	49.4	-4.2	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.665		43.8	50.1	-12.5	30.0
2,6-Dinitrotoluene	Lin1		2.433		47.9	50.1	-4.3	30.0
2,4-Dinitrotoluene	Lin1		1.278		50.1	50.2	-0.1	30.0
PETN	Lin1		2.689		58.0	49.9	16.2	30.0
2-Nitrotoluene	Lin1		0.5298		49.9	49.6	0.7	30.0
4-Nitrotoluene	Lin1		0.4728		51.7	49.8	3.9	30.0
3-Nitrotoluene	Lin1		0.3248		55.6	49.4	12.6	30.0
Nitrobenzene-d5	Lin1		1.125		49.8	50.0	-0.4	30.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10037.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	10-Nov-2011 17:16:50	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/10/11EX4 CCV 50 ug/L 280-0002741-035		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	95630	Lims Sample ID:	35
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:36	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

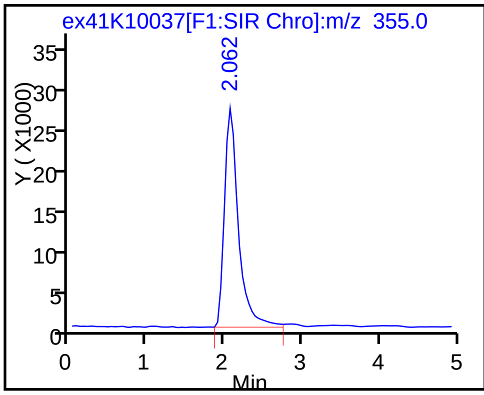
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	337415	53.6			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		757407	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	562731	51.3			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2856908	250.0			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	345555	47.5			
	6 Tetryl									
2	241.0	4.469	4.469	0.000	0.902	367035	41.4			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		1846735	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	5.035	5.035	0.000	1.016	388574	50.2			
	9 Nitroglycerin									
2	61.8	5.035	5.035	0.000	1.016	2269302	50.2			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.405	5.405	0.000	1.091	1728850	50.4			
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.111	401536	49.8			
	12 Nitrobenzene									
2	123.0	5.641	5.641	0.000	1.139	300390	47.1			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.122	6.122	0.000	0.850	1297176	47.3			
	16 2-Amino-4,6-dinitrotoluene									
3	197.0	6.685	6.685	0.000	0.928	1728732	43.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.949	2526440	47.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5187215	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.013	1329312	50.1			
20 PETN										
4	61.8	7.737	7.737	0.000	1.000	2783802	58.0			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	544691	49.9			
23 p-Nitrotoluene										
4	137.0	8.831	8.831	0.000	1.000	488073	51.7			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	332958	55.6			

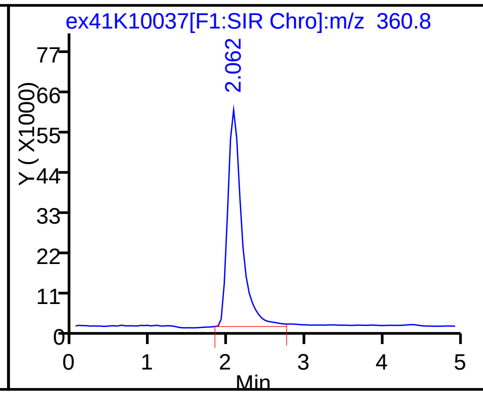
Report Date: 11-Nov-2011 06:40:36 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10037.d

Injection Date:	10-Nov-2011 17:16:50	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	35
Operator ID:		Injection Vol:	40.00 ul

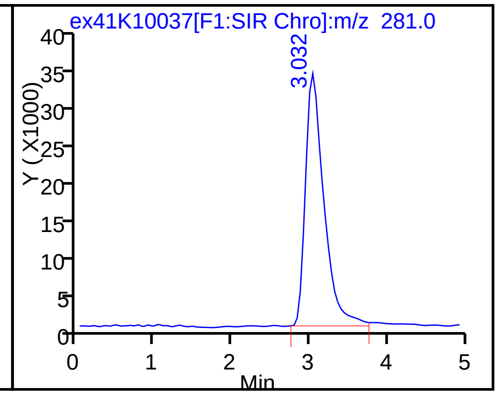
2 HMX



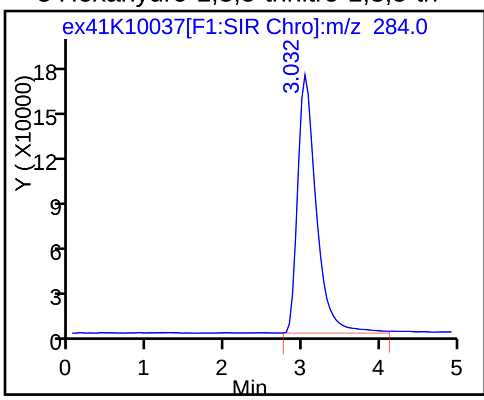
* 1 HMX-13C4



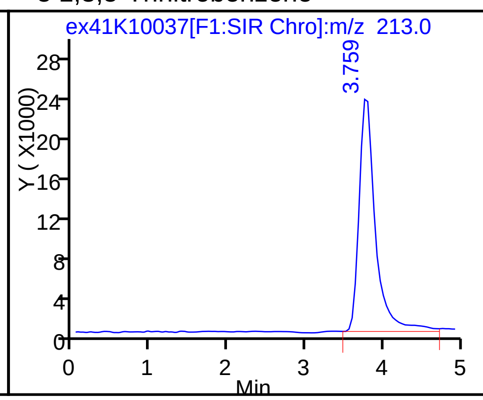
4 RDX



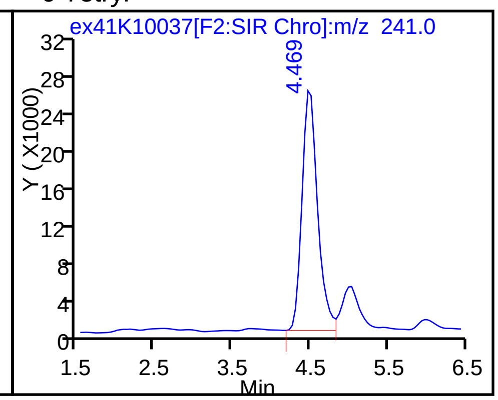
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



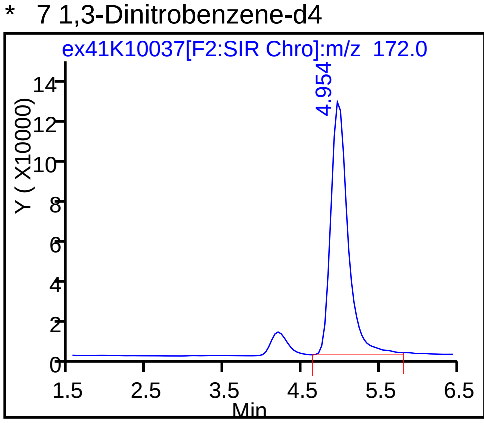
5 1,3,5-Trinitrobenzene



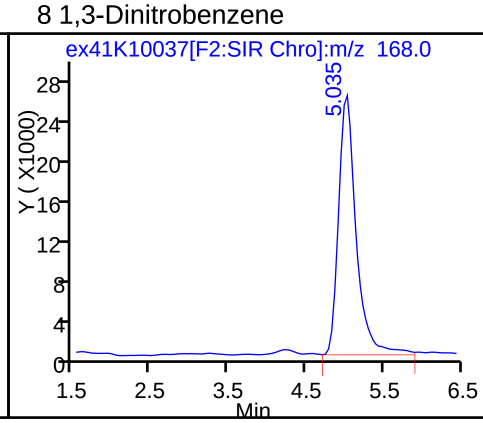
6 Tetryl



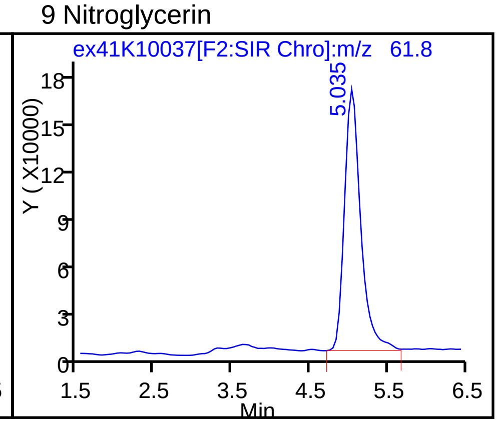
* 7 1,3-Dinitrobenzene-d4



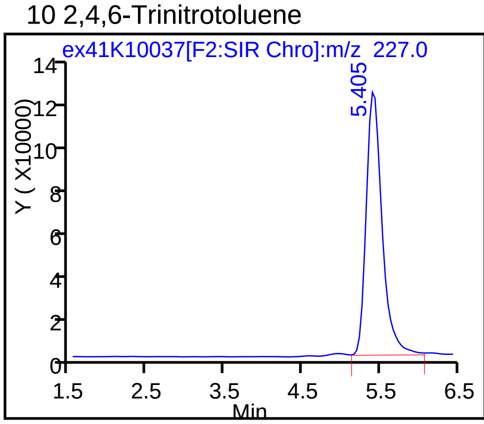
8 1,3-Dinitrobenzene



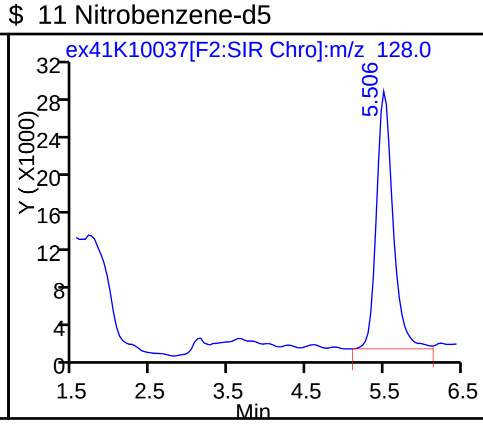
9 Nitroglycerin



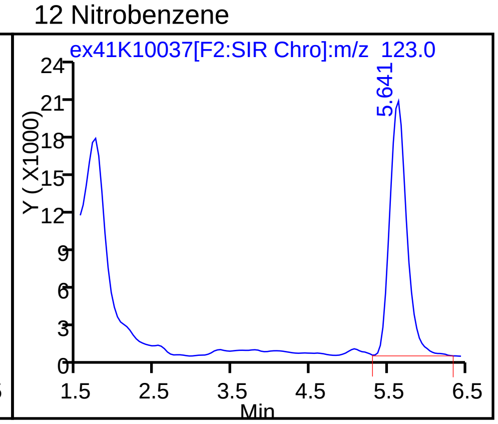
10 2,4,6-Trinitrotoluene

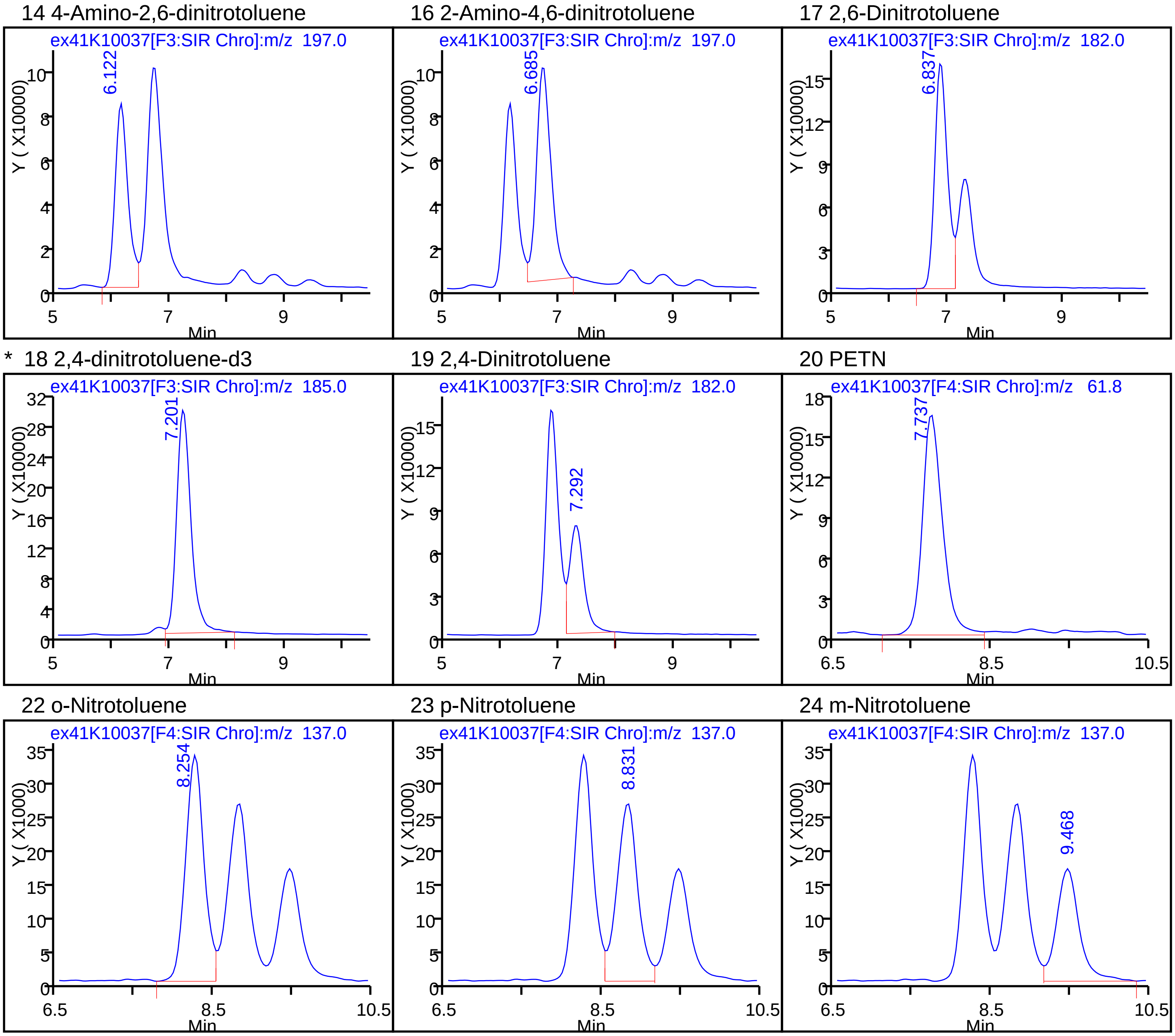


$ 11 Nitrobenzene-d5



12 Nitrobenzene




14 4-Amino-2,6-dinitrotoluene
ex41K10037[F3:SIR Chro]:m/z 197.0
6.122
Y (X10000)
Min
16 2-Amino-4,6-dinitrotoluene
ex41K10037[F3:SIR Chro]:m/z 197.0
6.685
Y (X10000)
Min
17 2,6-Dinitrotoluene
ex41K10037[F3:SIR Chro]:m/z 182.0
6.837
Y (X10000)
Min
* 18 2,4-dinitrotoluene-d3
ex41K10037[F3:SIR Chro]:m/z 185.0
7.201
Y (X10000)
Min
19 2,4-Dinitrotoluene
ex41K10037[F3:SIR Chro]:m/z 182.0
7.292
Y (X10000)
Min
20 PETN
ex41K10037[F4:SIR Chro]:m/z 61.8
7.737
Y (X10000)
Min
22 o-Nitrotoluene
ex41K10037[F4:SIR Chro]:m/z 137.0
8.254
Y (X1000)
Min
23 p-Nitrotoluene
ex41K10037[F4:SIR Chro]:m/z 137.0
8.831
Y (X1000)
Min
24 m-Nitrotoluene
ex41K10037[F4:SIR Chro]:m/z 137.0
9.468
Y (X1000)
Min

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Lab Sample ID: CCV 280-95630/43 Calibration Date: 11/10/2011 18:54

Instrument ID: LC_LCMS4 Calib Start Date: 11/10/2011 10:21

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10045.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		1.924		92.9	100	-7.1	30.0
RDX	Lin1		0.9854		102	98.7	3.0	30.0
1,3,5-Trinitrobenzene	Lin1		0.9383		90.4	100	-9.7	30.0
Tetryl	Lin1		0.999		78.0	99.4	-21.5	30.0
1,3-Dinitrobenzene	Lin1		1.058		98.1	101	-3.3	30.0
Nitroglycerin	Lin1		6.145		97.4	100	-2.6	30.0
2,4,6-Trinitrotoluene	Lin1		4.624		94.9	100	-5.2	30.0
Nitrobenzene	Lin1		0.9421		104	99.9	4.1	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.175		86.9	98.7	-12.0	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.767		92.5	100	-7.6	30.0
2,6-Dinitrotoluene	Lin1		2.364		92.4	100	-7.7	30.0
2,4-Dinitrotoluene	Lin1		1.286		100	100	-0.2	30.0
PETN	Lin1		2.192		95.6	99.8	-4.2	30.0
2-Nitrotoluene	Lin1		0.5361		99.9	99.1	0.8	30.0
4-Nitrotoluene	Lin1		0.4939		106	99.5	6.8	30.0
3-Nitrotoluene	Lin1		0.3468		118	98.8	19.3	30.0
Nitrobenzene-d5	Lin1		1.202		107	100	6.5	30.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10045.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	10-Nov-2011 18:54:02	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/10/11EX5 CCV 100 ug/L 280-0002741-043		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	95630	Lims Sample ID:	43
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:41	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	560431	92.9			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		728168	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1014552	101.7			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2608006	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	586443	90.4			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	620118	78.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1615374	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	669559	98.1			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	3836950	97.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	2889905	94.9			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	750749	106.5			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	587609	104.0			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.845	2442634	86.9			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	3723599	92.5			

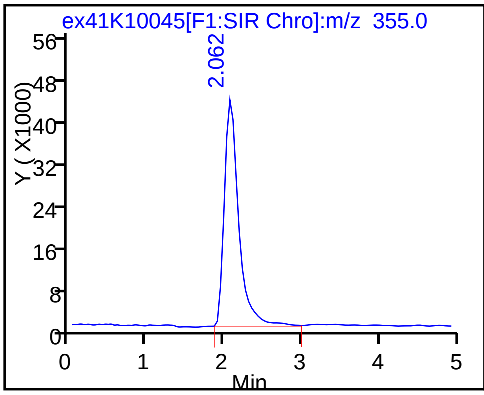
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.949	4982720	92.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5263730	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.262	0.000	1.008	2716226	100.1			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	4605401	95.6			
22 o-Nitrotoluene										
4	137.0	8.223	8.223	0.000	1.000	1118589	99.9			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	1034598	106.3			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	721343	117.9			

Report Date: 11-Nov-2011 06:40:42 Chrom Revision: 1.2 13-Jul-2011 10:43:06

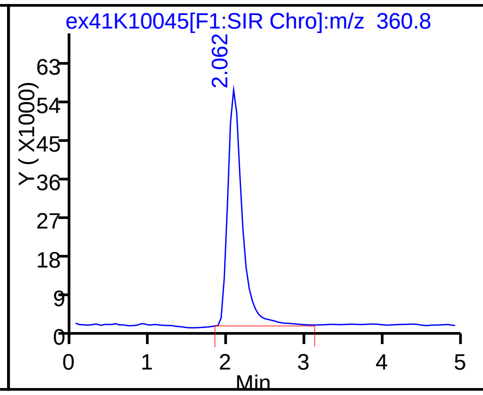
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10045.d

Injection Date:	10-Nov-2011 18:54:02	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	43
Operator ID:		Injection Vol:	40.00 ul

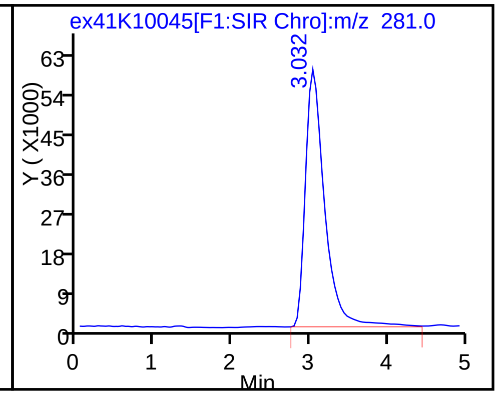
2 HMX



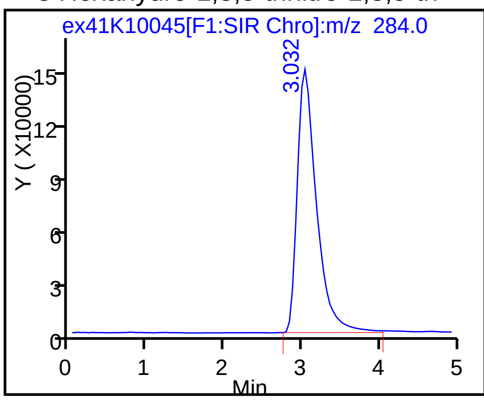
* 1 HMX-13C4



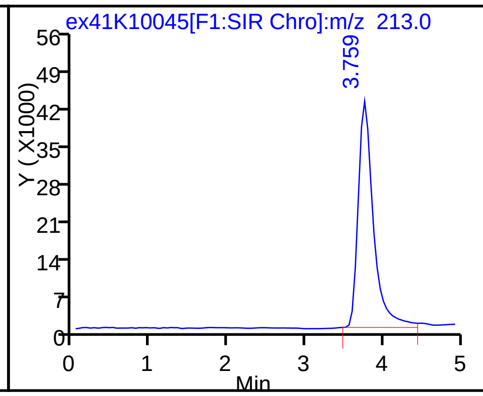
4 RDX



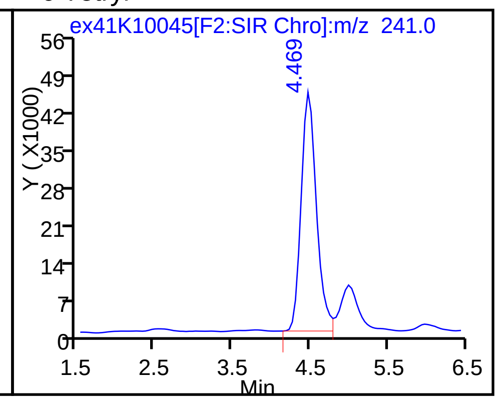
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



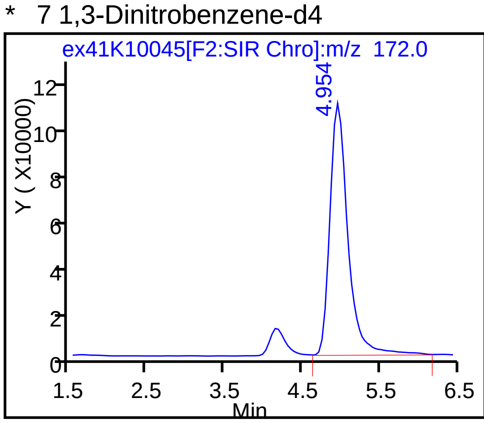
5 1,3,5-Trinitrobenzene



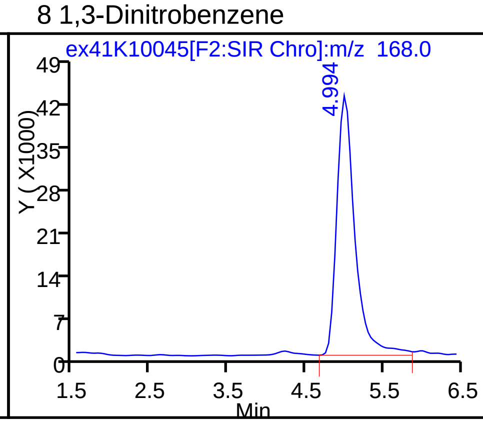
6 Tetryl



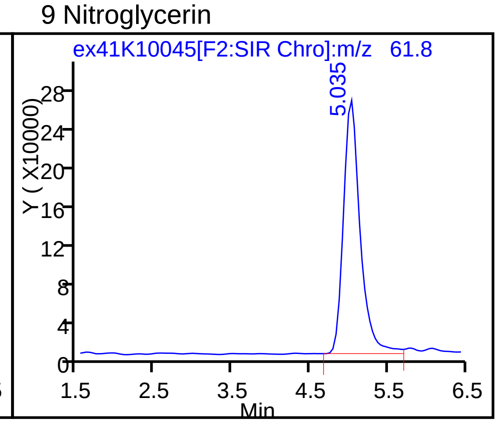
* 7 1,3-Dinitrobenzene-d4



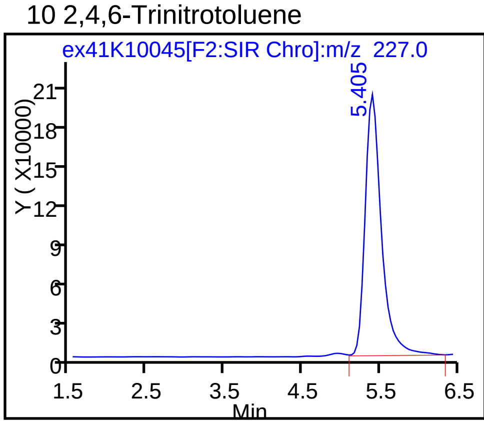
8 1,3-Dinitrobenzene



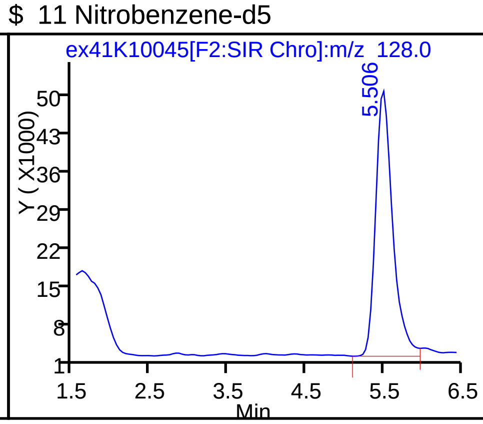
9 Nitroglycerin



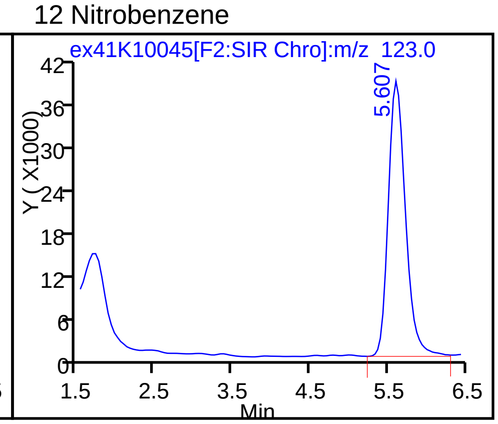
10 2,4,6-Trinitrotoluene



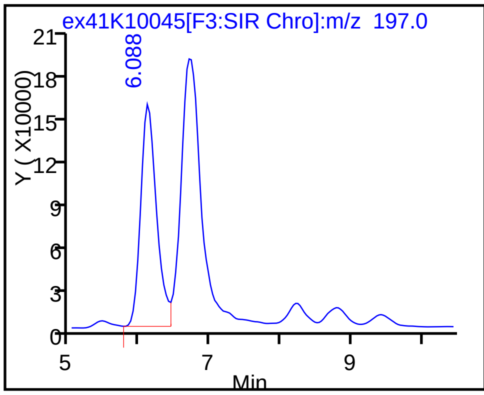
$ 11 Nitrobenzene-d5



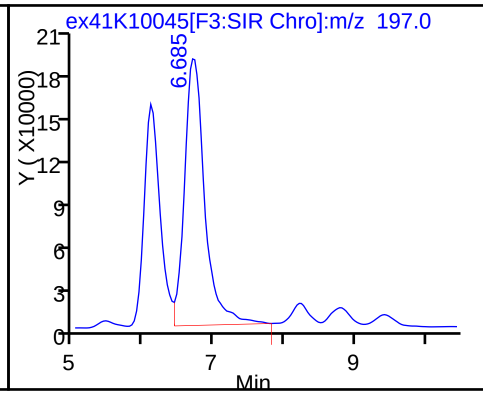
12 Nitrobenzene



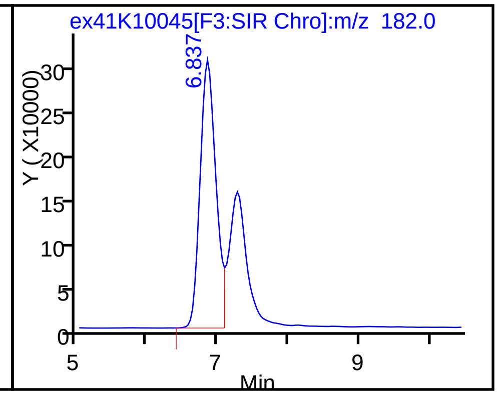
14 4-Amino-2,6-dinitrotoluene



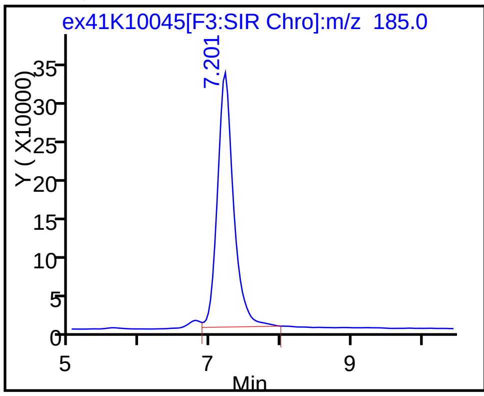
16 2-Amino-4,6-dinitrotoluene



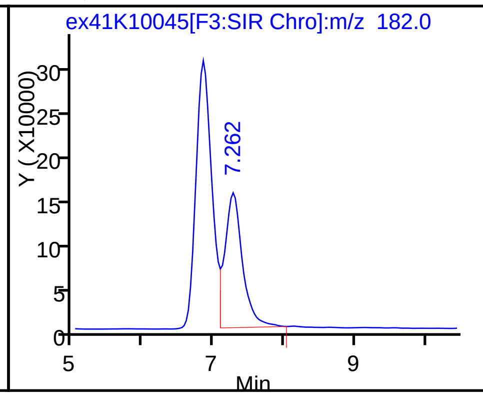
17 2,6-Dinitrotoluene



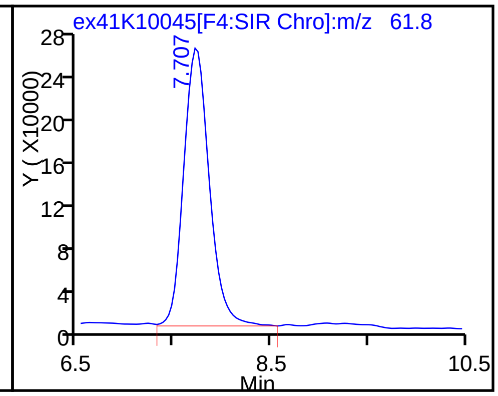
* 18 2,4-dinitrotoluene-d3



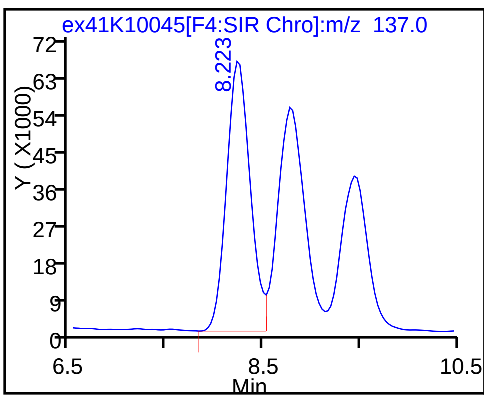
19 2,4-Dinitrotoluene



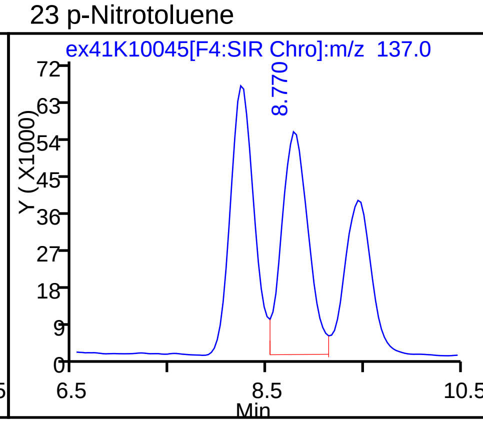
20 PETN



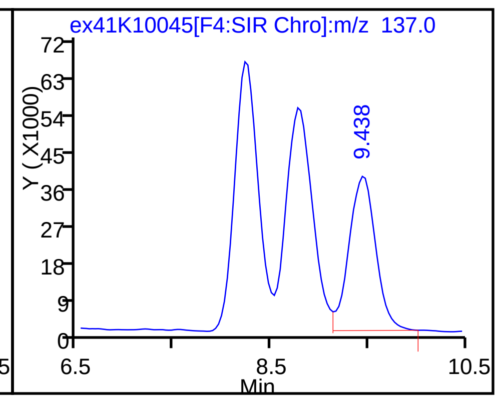
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Lab Sample ID: CCV 280-96232/68 Calibration Date: 11/14/2011 12:41

Instrument ID: LC_LCMS4 Calib Start Date: 11/10/2011 10:21

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10115.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.052		99.1	100	-0.9	20.0
RDX	Lin1		0.9920		102	98.7	3.7	20.0
1,3,5-Trinitrobenzene	Lin1		1.005		96.8	100	-3.3	20.0
Tetryl	Lin1		1.178		91.6	99.4	-7.8	20.0
1,3-Dinitrobenzene	Lin1		1.052		97.6	101	-3.7	20.0
Nitroglycerin	Lin1		6.435		102	100	2.0	30.0
2,4,6-Trinitrotoluene	Lin1		4.757		97.6	100	-2.5	20.0
Nitrobenzene	Lin1		0.9602		106	99.9	6.1	20.0
4-Amino-2,6-dinitrotoluene	Lin1		1.230		90.9	98.7	-7.9	20.0
2-Amino-4,6-dinitrotoluene	Lin1		1.856		97.2	100	-2.9	20.0
2,6-Dinitrotoluene	Lin1		2.559		100	100	-0.1	20.0
2,4-Dinitrotoluene	Lin1		1.287		100	100	-0.1	20.0
PETN	Lin1		2.435		106	99.8	6.6	30.0
2-Nitrotoluene	Lin1		0.5798		108	99.1	9.0	20.0
4-Nitrotoluene	Lin1		0.5410		116	99.5	16.9	20.0
3-Nitrotoluene	Lin1		0.3286		112	98.8	13.2	20.0
Nitrobenzene-d5	Lin1		1.176		104	100	4.2	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10115.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	14-Nov-2011 12:41:02	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/14/11EX5 CCV 100 ug/L 280-0002749-068		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	96232	Lims Sample ID:	68
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\8321exp4-25.m		
Last Update:	15-Nov-2011 07:04:50	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	672419	99.1			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		819162	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1172335	102.4			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2993471	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	656916	96.8			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	764495	91.6			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1688940	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	696352	97.6			
9 Nitroglycerin										
2	61.8	5.034	5.034	0.000	1.016	4200631	102.0			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	3108633	97.6			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	767844	104.2			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	626202	106.0			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.845	2235230	90.9			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.924	3421127	97.2			

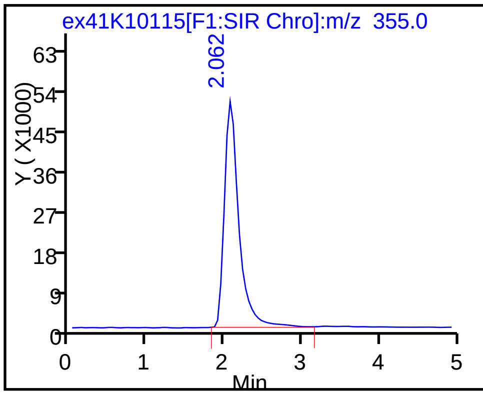
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.949	4716374	100.0			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4602511	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.008	2376046	100.2			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	4473311	106.4			
22 o-Nitrotoluene										
4	137.0	8.223	8.223	0.000	1.000	1057723	108.0			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	990972	116.3			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	597763	111.8			

Report Date: 15-Nov-2011 07:04:51 | Chrom Revision: 1.2 13-Jul-2011 10:43:06

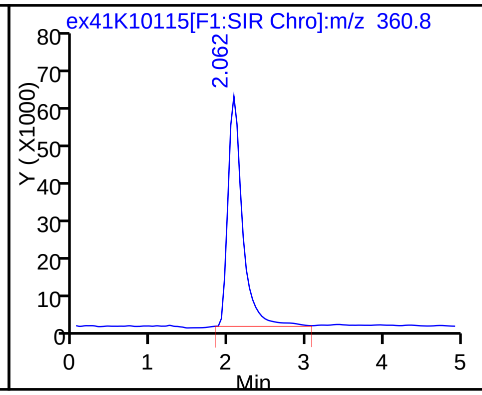
Data File: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10115.d

Injection Date:	14-Nov-2011 12:41:02	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	68
Operator ID:		Injection Vol:	40.00 ul

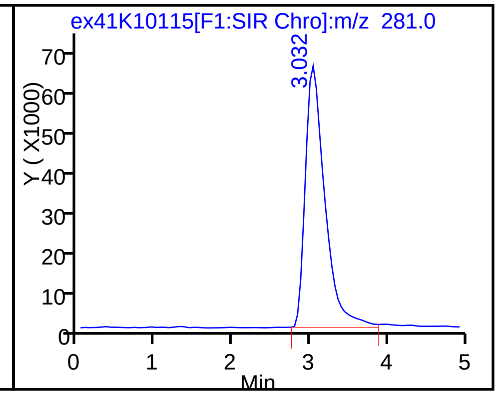
2 HMX



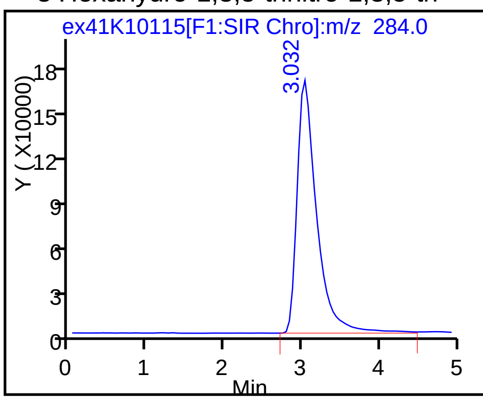
* 1 HMX-13C4



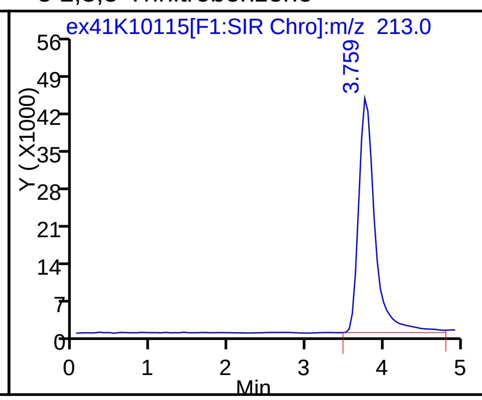
4 RDX



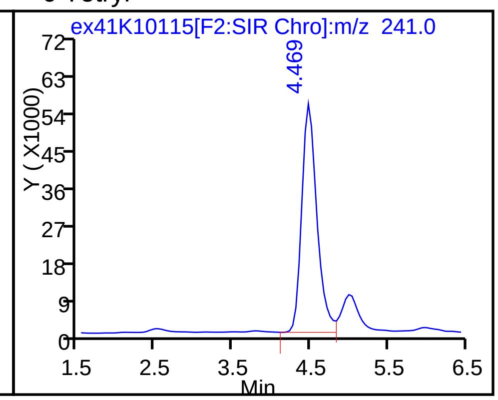
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



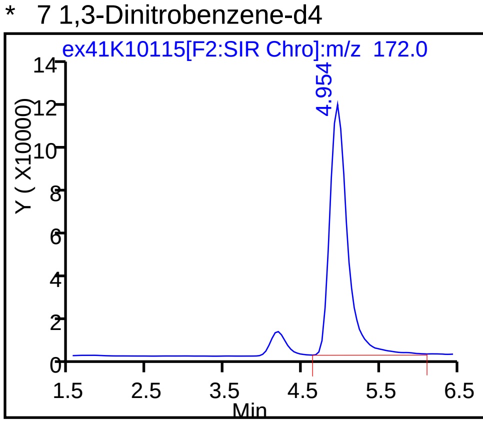
5 1,3,5-Trinitrobenzene



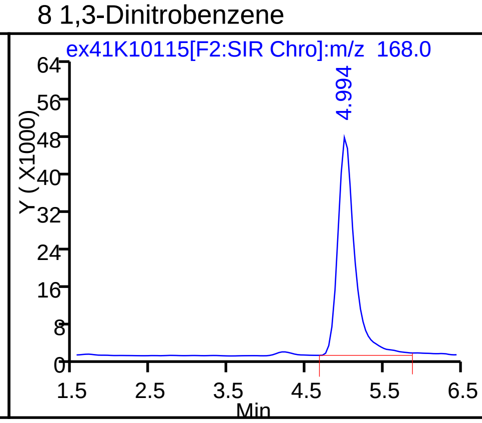
6 Tetryl



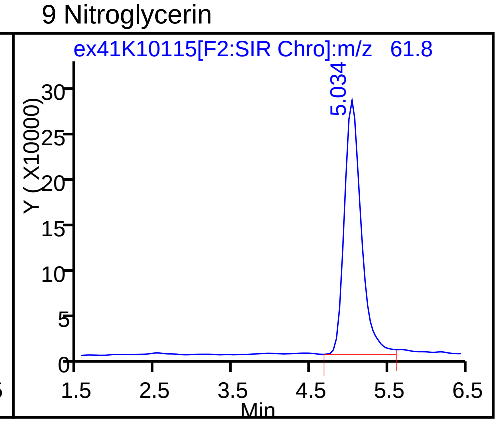
* 7 1,3-Dinitrobenzene-d4



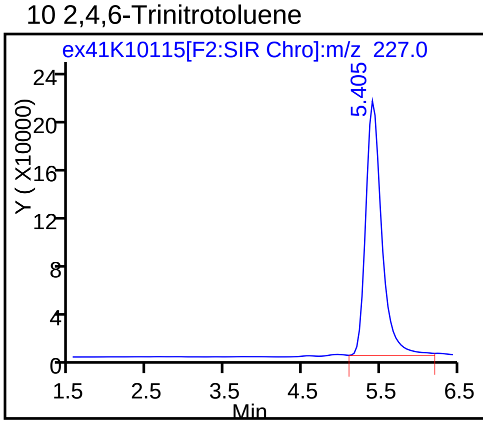
8 1,3-Dinitrobenzene



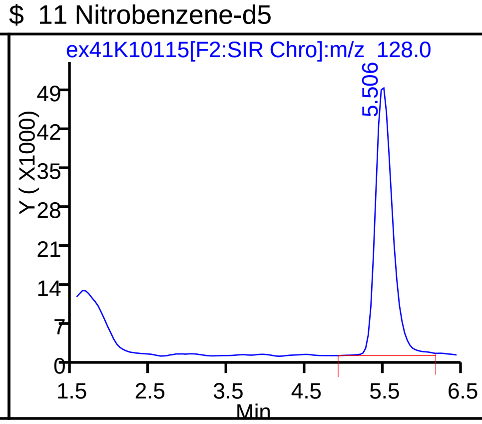
9 Nitroglycerin



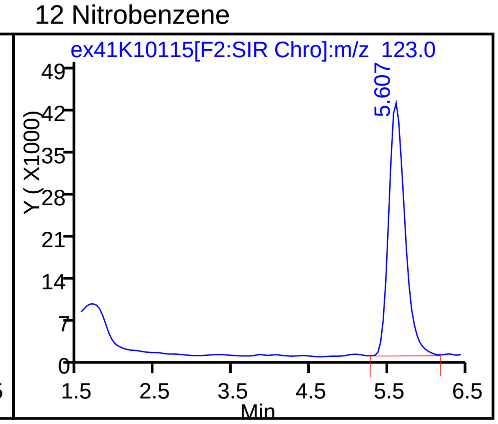
10 2,4,6-Trinitrotoluene



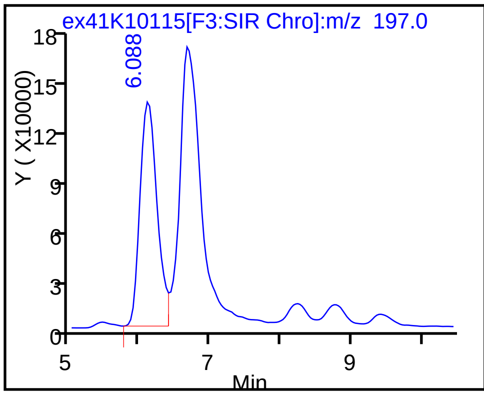
$ 11 Nitrobenzene-d5



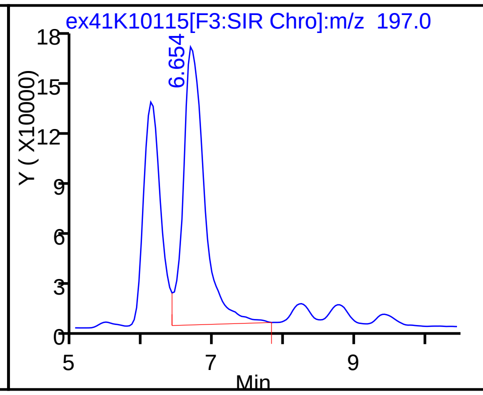
12 Nitrobenzene



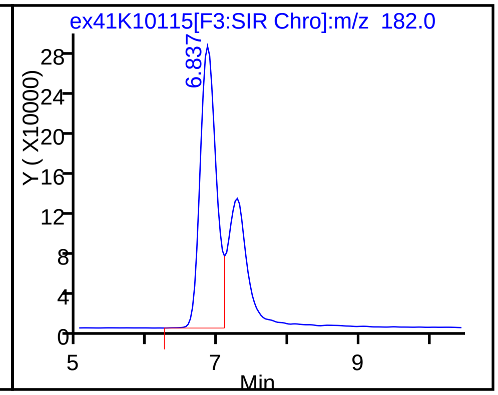
14 4-Amino-2,6-dinitrotoluene



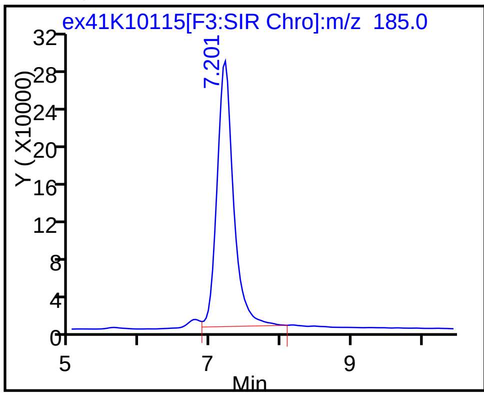
16 2-Amino-4,6-dinitrotoluene



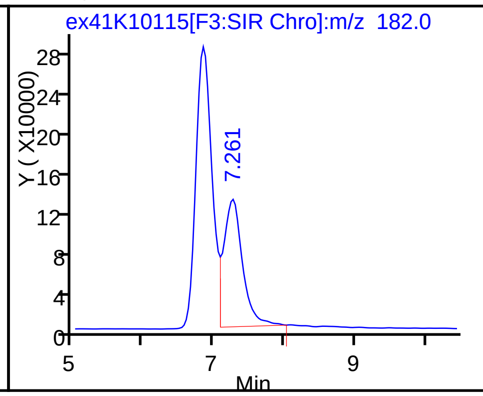
17 2,6-Dinitrotoluene



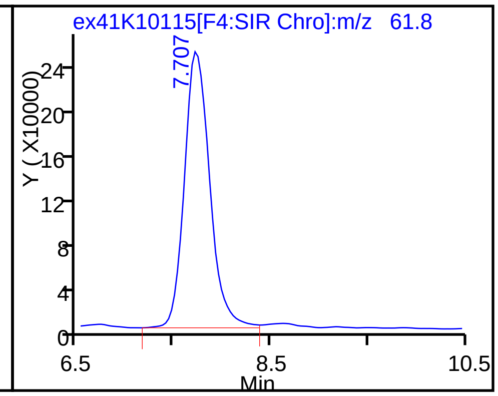
* 18 2,4-dinitrotoluene-d3



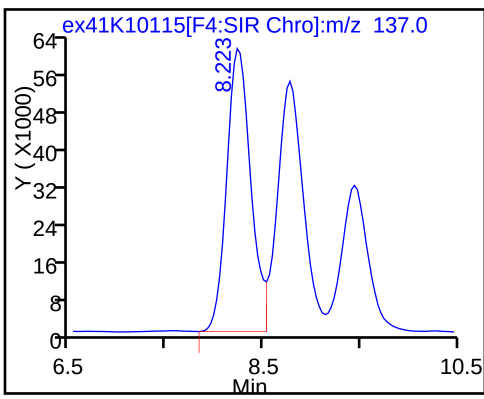
19 2,4-Dinitrotoluene



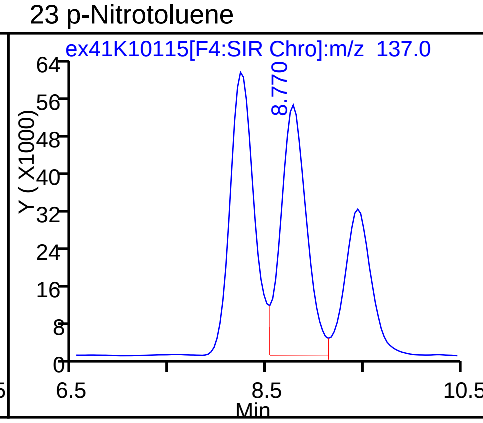
20 PETN



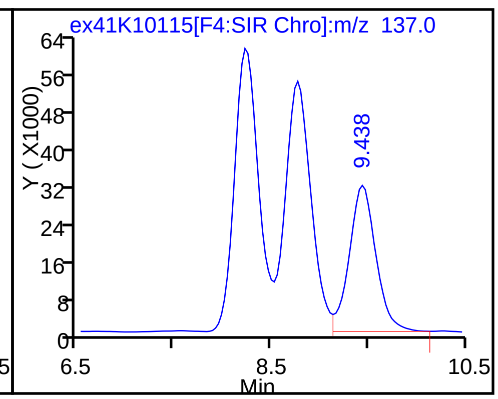
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Lab Sample ID: CCV 280-96232/77   Calibration Date: 11/14/2011 14:30

Instrument ID: LC_LCMS4   Calib Start Date: 11/10/2011 10:21

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10124.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.256		54.3	50.0	8.6	20.0
RDX	Lin1		1.045		53.7	49.4	8.8	20.0
1,3,5-Trinitrobenzene	Lin1		0.9569		47.0	50.1	-6.1	20.0
Tetryl	Lin1		1.302		51.5	49.7	3.6	20.0
1,3-Dinitrobenzene	Lin1		1.023		47.8	50.7	-5.7	20.0
Nitroglycerin	Lin1		7.448		58.9	50.0	17.8	30.0
2,4,6-Trinitrotoluene	Lin1		4.366		45.6	50.1	-8.9	20.0
Nitrobenzene	Lin1		0.9400		52.4	50.0	4.9	20.0
4-Amino-2,6-dinitrotoluene	Lin1		1.346		50.2	49.4	1.7	20.0
2-Amino-4,6-dinitrotoluene	Lin1		1.960		51.5	50.1	2.9	20.0
2,6-Dinitrotoluene	Lin1		2.618		51.5	50.1	2.9	20.0
2,4-Dinitrotoluene	Lin1		1.387		54.3	50.2	8.3	20.0
PETN	Lin1		2.824		61.1	49.9	22.4	30.0
2-Nitrotoluene	Lin1		0.5421		51.1	49.6	3.1	20.0
4-Nitrotoluene	Lin1		0.4809		52.5	49.8	5.5	20.0
3-Nitrotoluene	Lin1		0.3006		51.5	49.4	4.3	20.0
Nitrobenzene-d5	Lin1		1.125		49.8	50.0	-0.4	20.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10124.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	14-Nov-2011 14:30:26	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/14/11EX4 CCV 50 ug/L 280-0002749-077		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	96232	Lims Sample ID:	77
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\8321exp4-25.m		
Last Update:	15-Nov-2011 07:04:58	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	391472	54.3			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		867442	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	620329	53.7			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3007902	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	326510	47.0			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	440977	51.5			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1763751	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	353553	47.8			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	2538745	58.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	1489528	45.6			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	383582	49.8			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	320081	52.4			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.849	1253992	50.2			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.928	1852383	51.5			

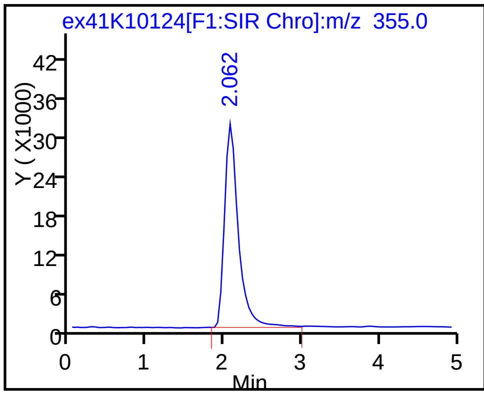
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.953	2474266	51.5			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.170	0.000		4720862	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.013	1313933	54.3			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	2661222	61.1			
22 o-Nitrotoluene										
4	137.0	8.223	8.223	0.000	1.000	507263	51.1			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	451739	52.5			
24 m-Nitrotoluene										
4	137.0	9.408	9.408	0.000	1.000	280403	51.5			

Report Date: 15-Nov-2011 07:04:59 Chrom Revision: 1.2 13-Jul-2011 10:43:06

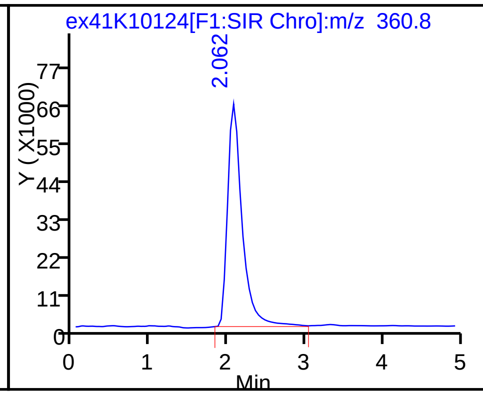
Data File: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10124.d

Injection Date:	14-Nov-2011 14:30:26	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	77
Operator ID:		Injection Vol:	40.00 ul

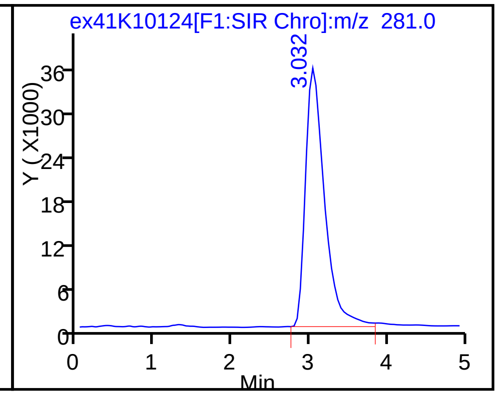
2 HMX



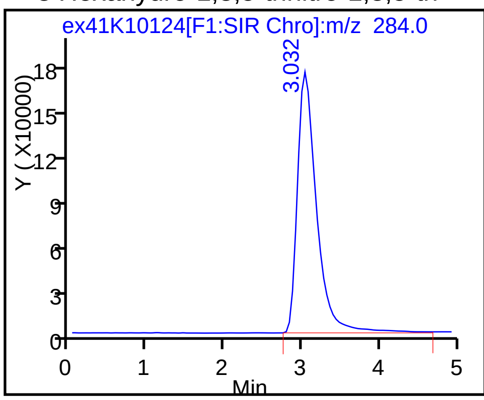
* 1 HMX-13C4



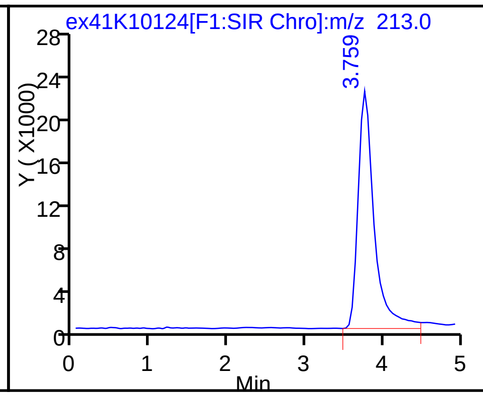
4 RDX



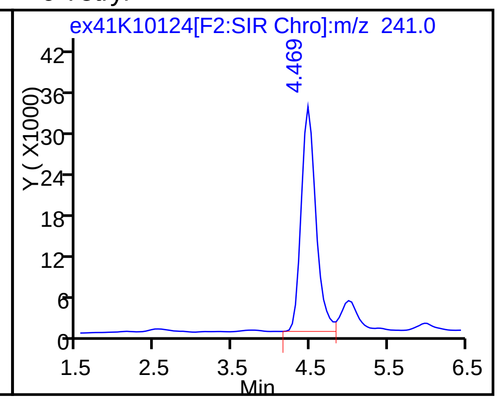
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



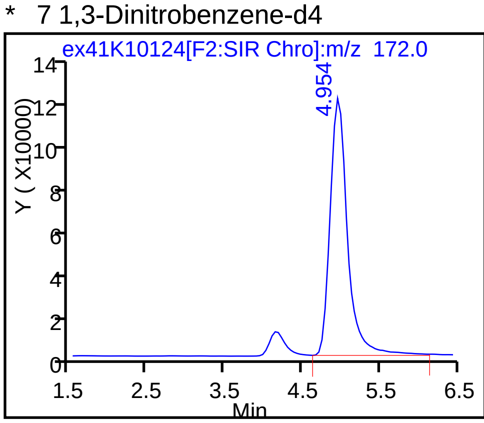
5 1,3,5-Trinitrobenzene



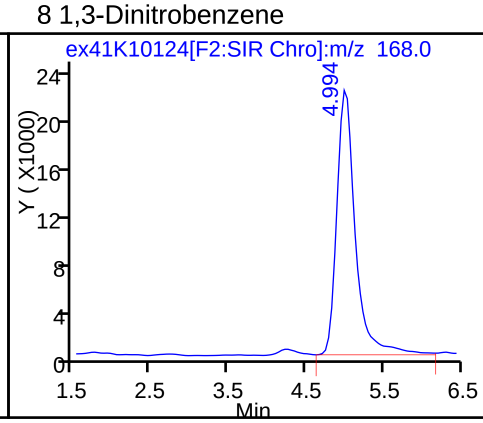
6 Tetryl



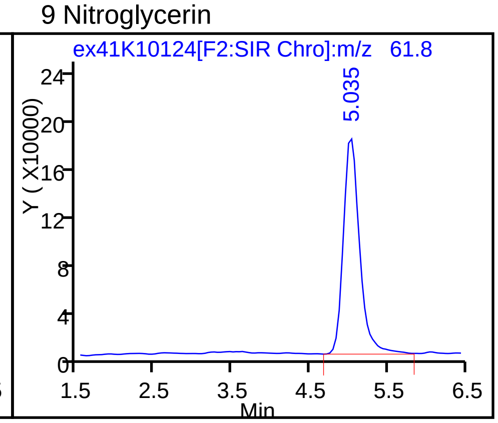
* 7 1,3-Dinitrobenzene-d4



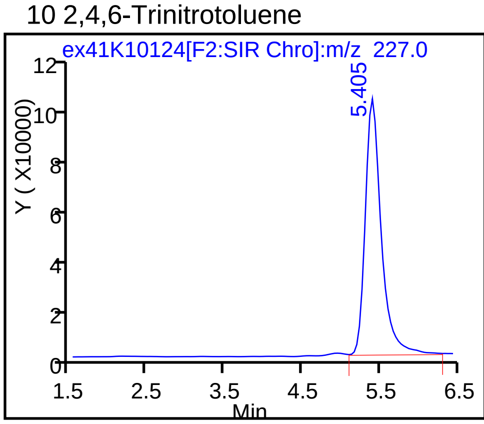
8 1,3-Dinitrobenzene



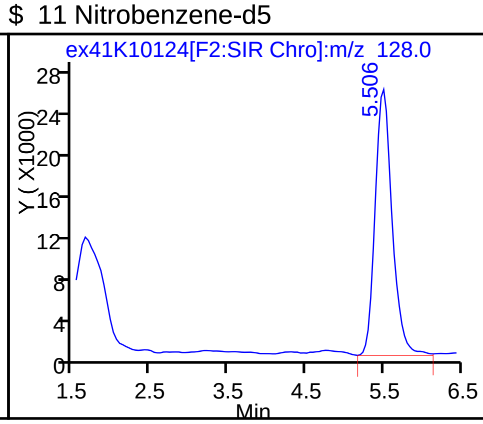
9 Nitroglycerin



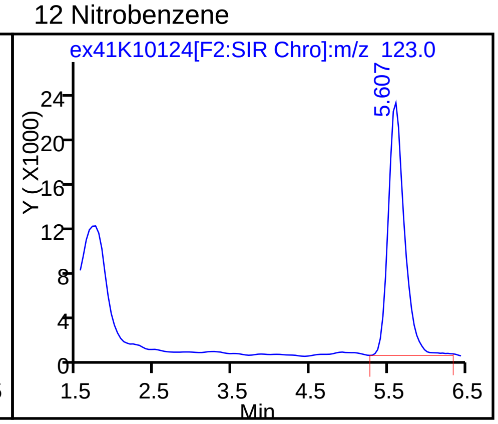
10 2,4,6-Trinitrotoluene



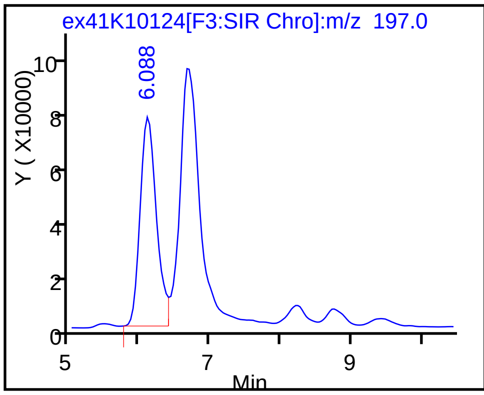
$ 11 Nitrobenzene-d5



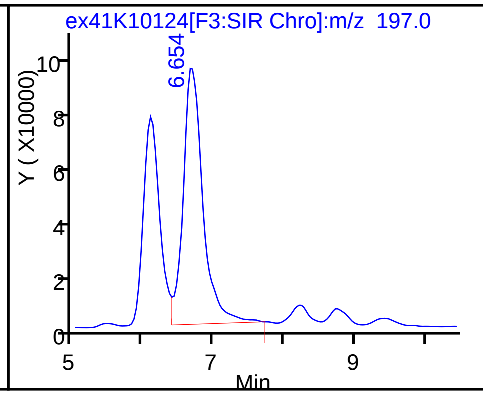
12 Nitrobenzene



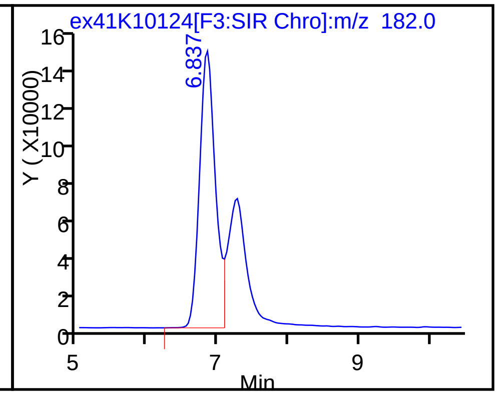
14 4-Amino-2,6-dinitrotoluene



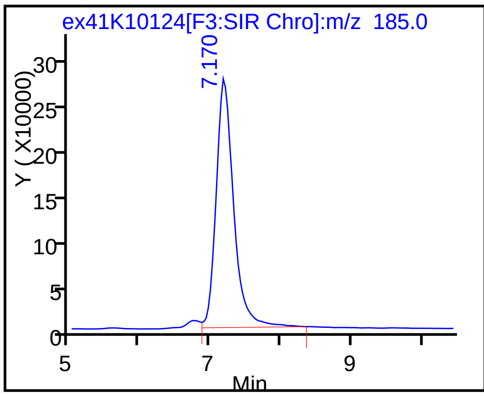
16 2-Amino-4,6-dinitrotoluene



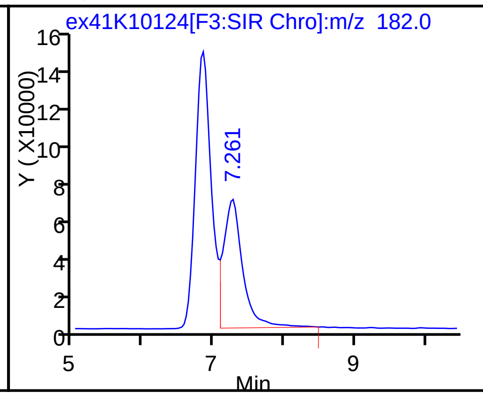
17 2,6-Dinitrotoluene



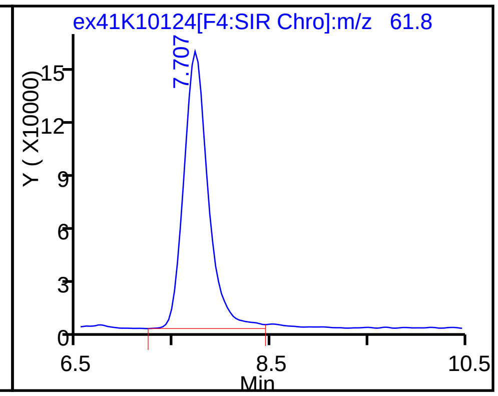
* 18 2,4-dinitrotoluene-d3



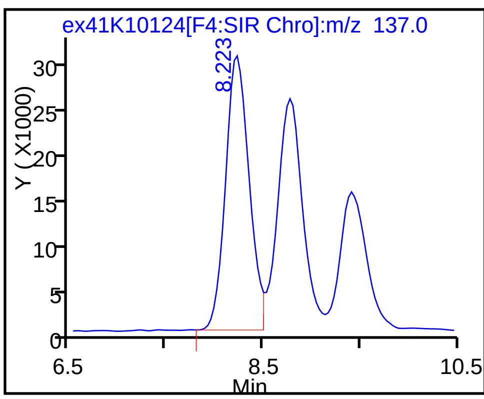
19 2,4-Dinitrotoluene



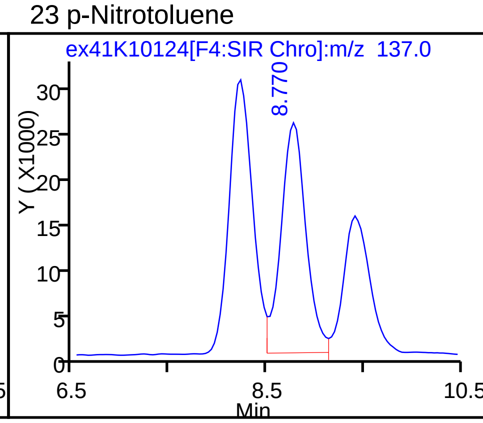
20 PETN



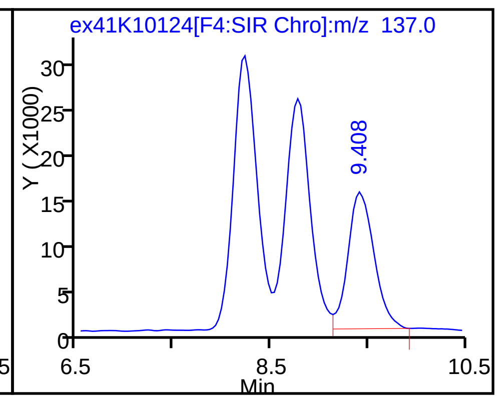
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Lab Sample ID: CCV 280-96232/86   Calibration Date: 11/14/2011 16:20

Instrument ID: LC_LCMS4   Calib Start Date: 11/10/2011 10:21

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10133.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.033		98.1	100	-1.9	20.0
RDX	Lin1		0.9495		98.0	98.7	-0.7	20.0
1,3,5-Trinitrobenzene	Lin1		1.047		101	100	0.6	20.0
Tetryl	Lin1		1.215		94.3	99.4	-5.1	20.0
1,3-Dinitrobenzene	Lin1		1.099		102	101	0.5	20.0
Nitroglycerin	Lin1		6.461		102	100	2.4	30.0
2,4,6-Trinitrotoluene	Lin1		5.011		103	100	2.7	20.0
Nitrobenzene	Lin1		0.9330		103	99.9	3.1	20.0
4-Amino-2,6-dinitrotoluene	Lin1		1.335		98.6	98.7	-0.1	20.0
2-Amino-4,6-dinitrotoluene	Lin1		1.799		94.2	100	-5.9	20.0
2,6-Dinitrotoluene	Lin1		2.405		94.0	100	-6.1	20.0
2,4-Dinitrotoluene	Lin1		1.284		100	100	-0.3	20.0
PETN	Lin1		2.419		106	99.8	5.9	30.0
2-Nitrotoluene	Lin1		0.5283		98.5	99.1	-0.6	20.0
4-Nitrotoluene	Lin1		0.4683		101	99.5	1.4	20.0
3-Nitrotoluene	Lin1		0.2943		100	98.8	1.4	20.0
Nitrobenzene-d5	Lin1		1.181		105	100	4.6	20.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

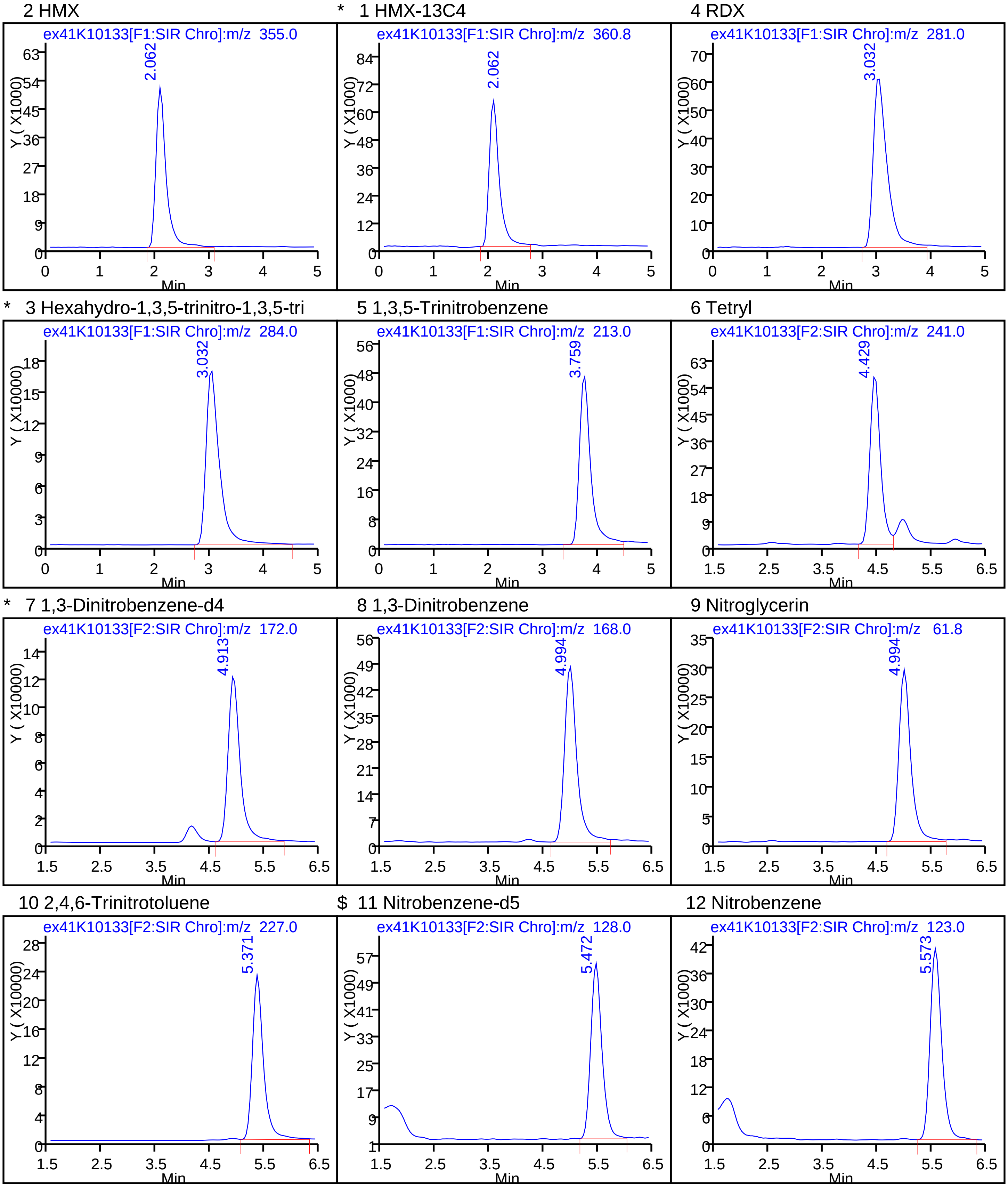
Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10133.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	14-Nov-2011 16:20:02	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/14/11EX5 CCV 100 ug/L 280-0002749-086		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	96232	Lims Sample ID:	86
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\8321exp4-25.m		
Last Update:	15-Nov-2011 07:05:05	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	682368	98.1			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		839316	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1088485	98.0			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2903589	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	684309	100.7			
6 Tetryl										
2	241.0	4.429	4.429	0.000	0.901	788179	94.3			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.913	4.913	0.000		1688815	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.016	727690	101.9			
9 Nitroglycerin										
2	61.8	4.994	4.994	0.000	1.016	4217191	102.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.371	5.371	0.000	1.093	3274325	102.8			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.114	771367	104.6			
12 Nitrobenzene										
2	123.0	5.573	5.573	0.000	1.134	608404	103.0			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.055	6.055	0.000	0.848	2636130	98.6			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.932	3603066	94.2			

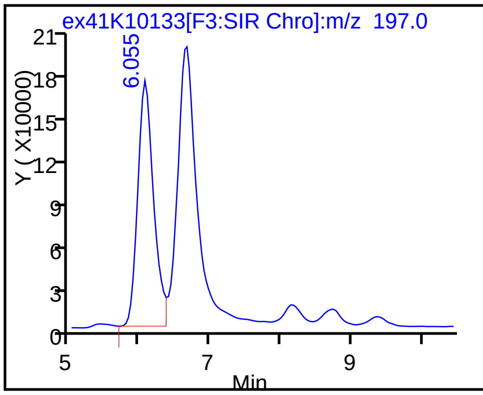
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.806	0.000	0.953	4815995	94.0			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.140	7.140	0.000		5001789	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.201	7.201	0.000	1.009	2577166	100.0			
20 PETN										
4	61.8	7.677	7.677	0.000	1.000	4830508	105.7			
22 o-Nitrotoluene										
4	137.0	8.162	8.162	0.000	1.000	1047523	98.5			
23 p-Nitrotoluene										
4	137.0	8.709	8.709	0.000	1.000	932146	100.9			
24 m-Nitrotoluene										
4	137.0	9.377	9.377	0.000	1.000	581666	100.2			

Report Date: 15-Nov-2011 07:05:05   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10133.d

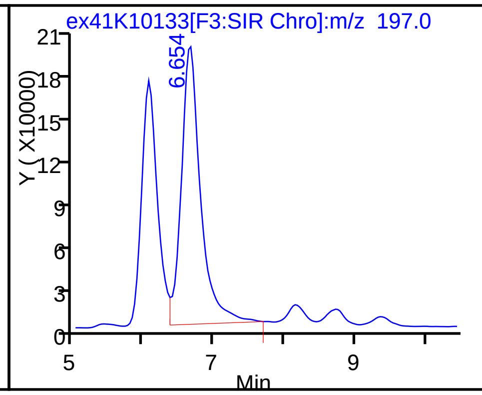
Injection Date:	14-Nov-2011 16:20:02	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	86
Operator ID:		Injection Vol:	40.00 ul



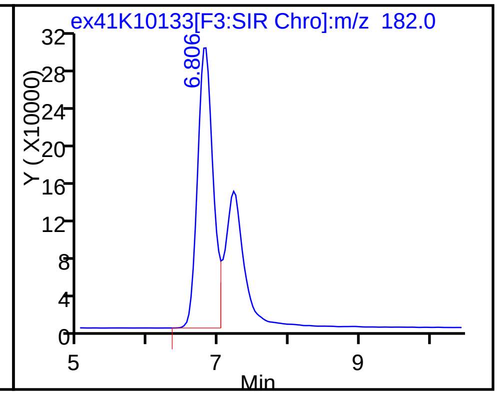
14 4-Amino-2,6-dinitrotoluene



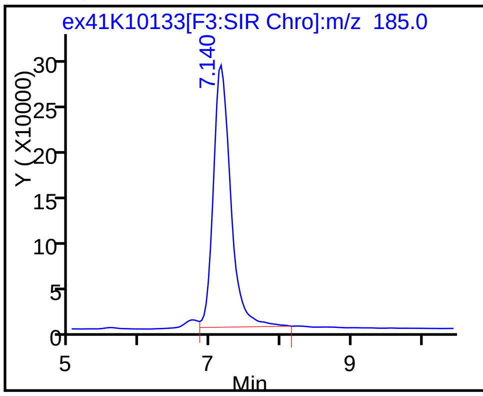
16 2-Amino-4,6-dinitrotoluene



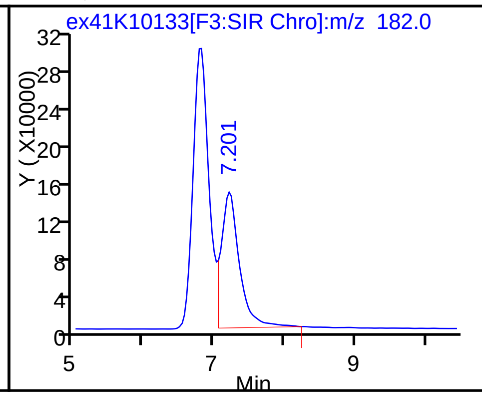
17 2,6-Dinitrotoluene



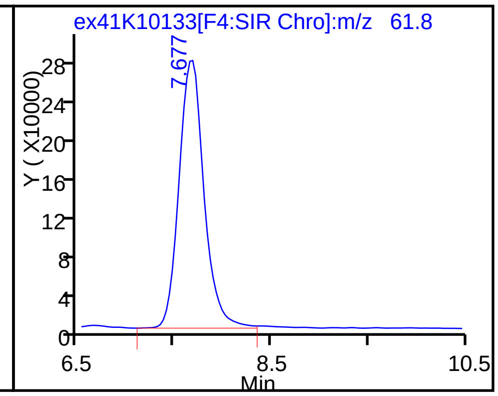
* 18 2,4-dinitrotoluene-d3



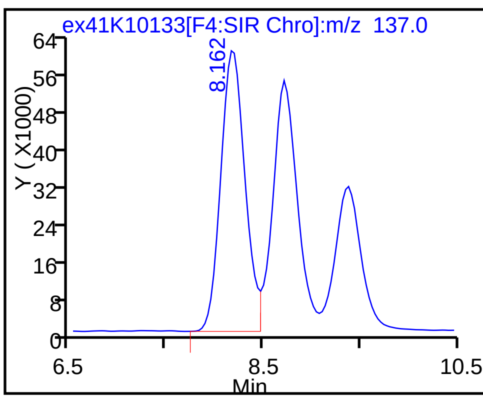
19 2,4-Dinitrotoluene



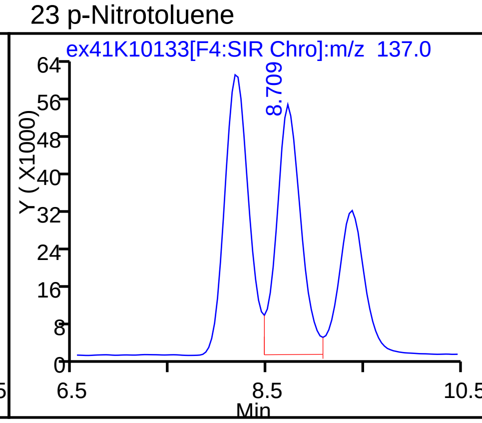
20 PETN



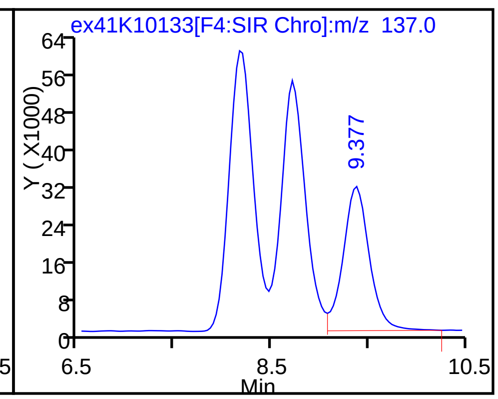
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-95077/1-A

Matrix: Water   Lab File ID: ex41K10013.d

Analysis Method: 8321B   Date Collected:

Extraction Method: 3535   Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1000(mL)   Date Analyzed: 11/10/2011 12:24

Con. Extract Vol.: 5(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629   Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.10	0.050	0.017
99-65-0	1,3-Dinitrobenzene	0.050	U	0.10	0.050	0.014
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.10	0.050	0.022
121-14-2	2,4-Dinitrotoluene	0.050	U	0.10	0.050	0.019
606-20-2	2,6-Dinitrotoluene	0.050	U	0.10	0.050	0.022
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.10	0.050	0.021
88-72-2	2-Nitrotoluene	0.050	U	0.10	0.050	0.022
99-08-1	3-Nitrotoluene	0.050	U	0.10	0.050	0.025
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.10	0.050	0.019
99-99-0	4-Nitrotoluene	0.050	U	0.10	0.050	0.026
2691-41-0	HMX	0.050	U	0.10	0.050	0.019
98-95-3	Nitrobenzene	0.050	U	0.10	0.050	0.033
55-63-0	Nitroglycerin	0.050	U	0.14	0.050	0.045
78-11-5	PETN	0.050	U	0.10	0.050	0.018
121-82-4	RDX	0.050	U	0.10	0.050	0.021
479-45-8	Tetryl	0.050	U	0.10	0.050	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10013.d
Lims ID: MB 280-95077/1-A Client ID:
Inject. Date: 10-Nov-2011 12:24:50 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: MB 280-95077/1-A 280-0002741-011
Misc. Info.: ex41K10 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 43
Lims Batch ID: 95629 Lims Sample ID: 11
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m
Last Update: 11-Nov-2011 06:40:12 Calib Date: 10-Nov-2011 11:34:20
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		691893	250.0			
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.112	3.032	0.080		2834862	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	5.034	4.954	0.080		1736720	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.607	5.506	0.101	1.114	595942	78.6			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	16 2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
	17 2,6-Dinitrotoluene									1
3	182.0		6.837							
*	18 2,4-dinitrotoluene-d3									
3	185.0	7.322	7.201	0.121		4510410	250.0			
	19 2,4-Dinitrotoluene									1
3	182.0		7.261							
	20 PETN									
4	61.8		7.707							
	21 3,5-Dinitrotoluene									1
3	182.0		7.808							
	22 o-Nitrotoluene									1
4	137.0		8.254							
	23 p-Nitrotoluene									1
4	137.0		8.770							
	24 m-Nitrotoluene									1
4	137.0		9.438							
	25 2,4,6-Trinitro-3-xylene									1
4	241.0		10.258							

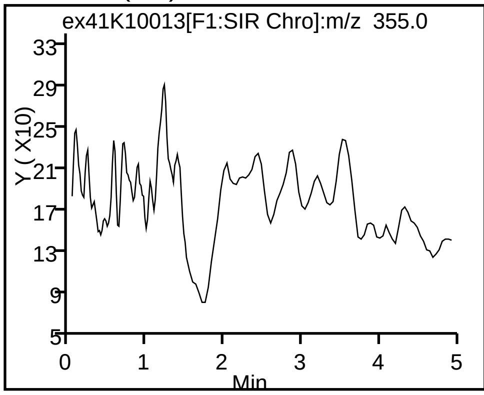
QC Flag Legend

Processing Flags
1 - Missing Peaks

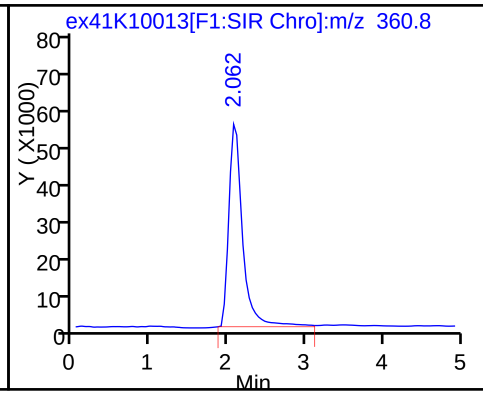
Report Date: 11-Nov-2011 06:40:17 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10013.d

Injection Date:	10-Nov-2011 12:24:50	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	11
Operator ID:		Injection Vol:	40.00 ul

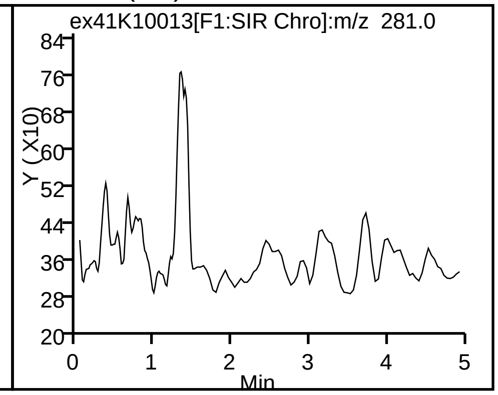
2 HMX (ND)



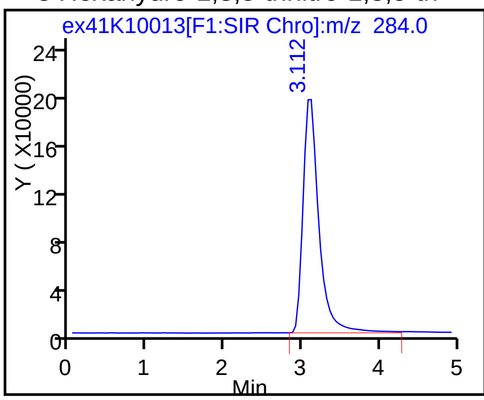
* 1 HMX-13C4



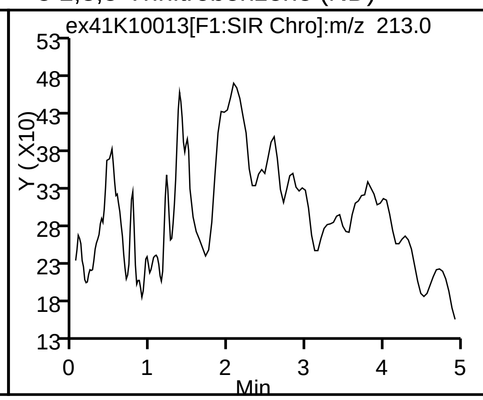
4 RDX (ND)



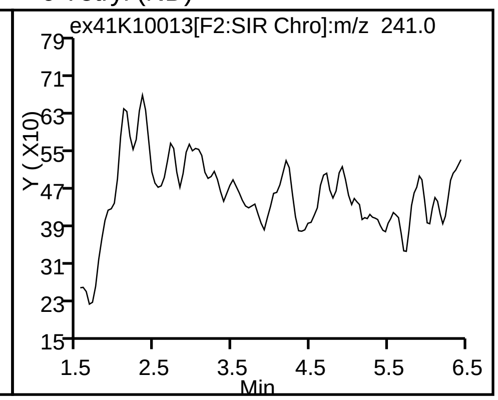
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



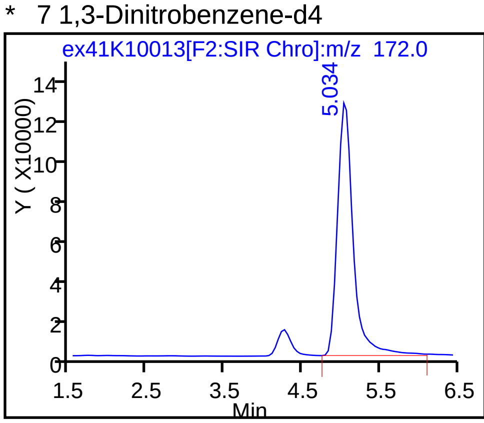
5 1,3,5-Trinitrobenzene (ND)



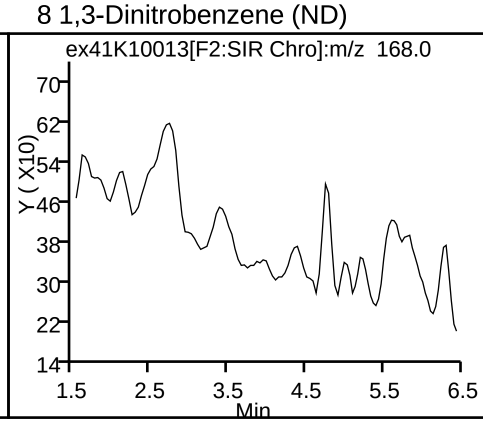
6 Tetryl (ND)



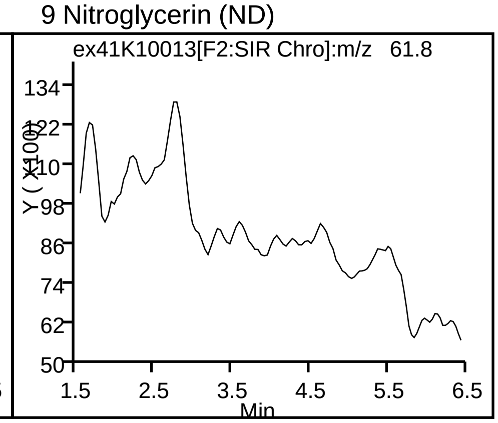
* 7 1,3-Dinitrobenzene-d4



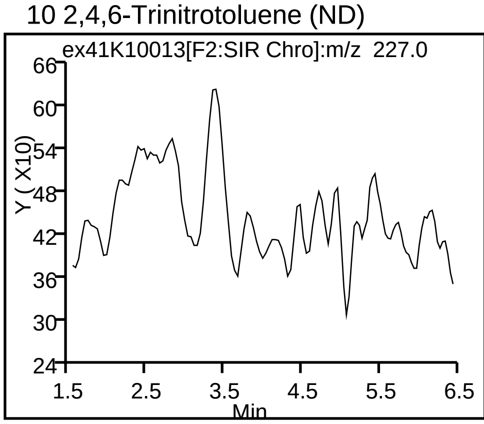
8 1,3-Dinitrobenzene (ND)



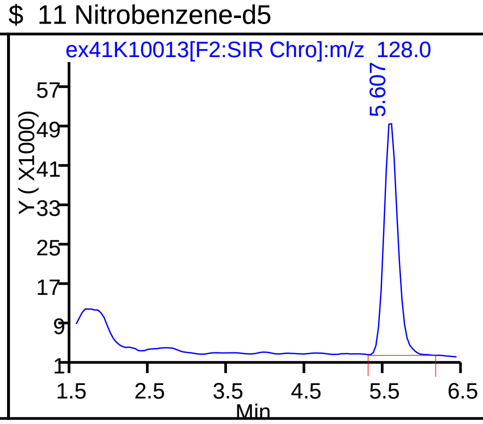
9 Nitroglycerin (ND)



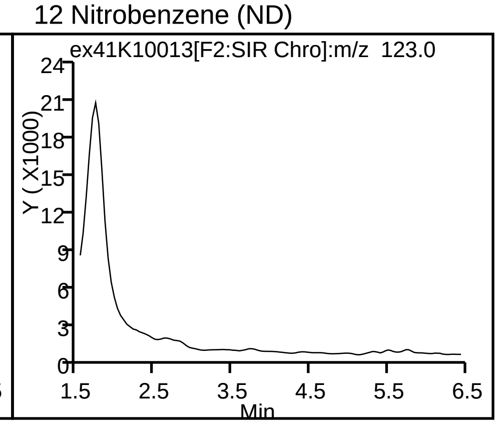
10 2,4,6-Trinitrotoluene (ND)



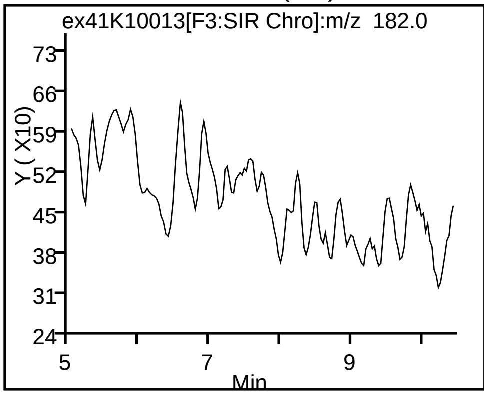
$ 11 Nitrobenzene-d5



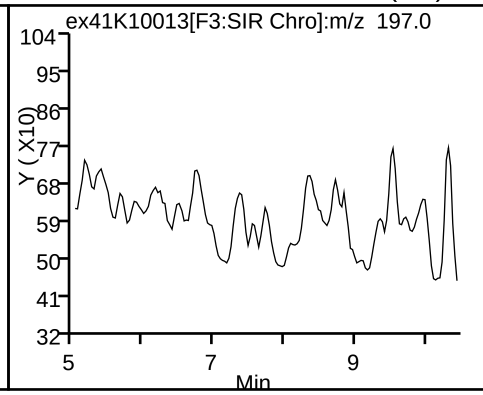
12 Nitrobenzene (ND)



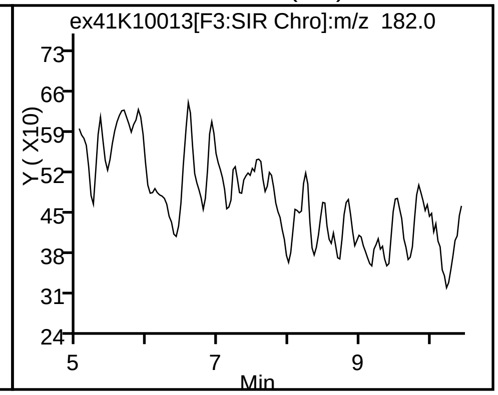
13 3,4-Dinitrotoluene (ND)



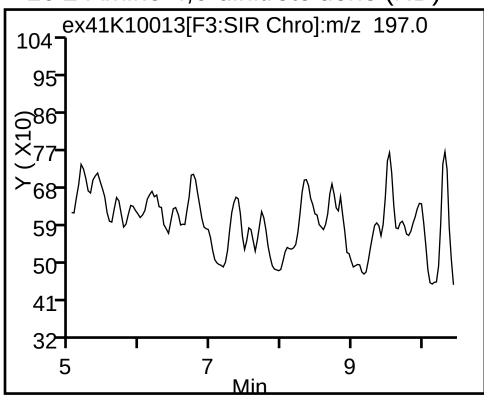
14 4-Amino-2,6-dinitrotoluene (ND)



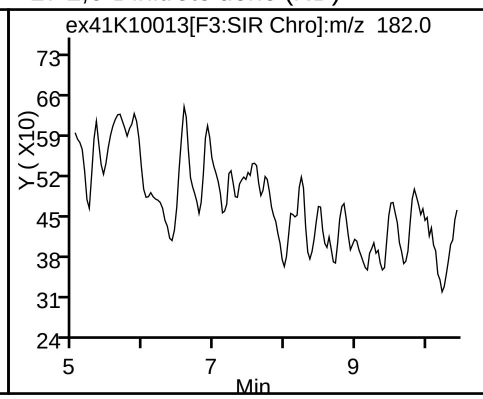
15 2,3-Dinitrotoluene (ND)



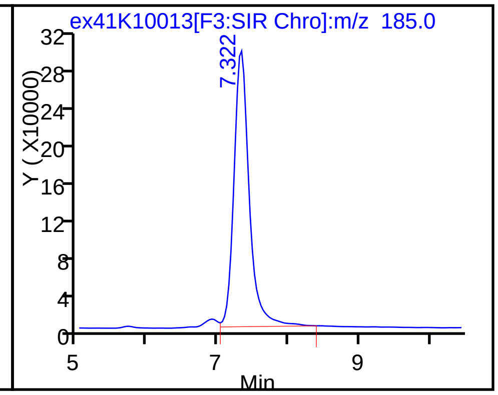
16 2-Amino-4,6-dinitrotoluene (ND)



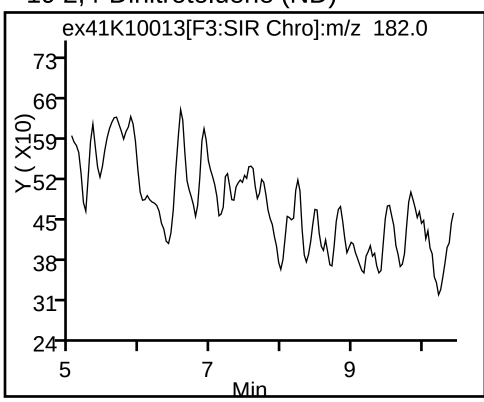
17 2,6-Dinitrotoluene (ND)



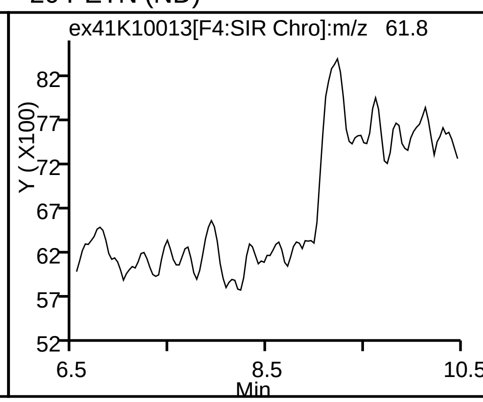
* 18 2,4-dinitrotoluene-d3



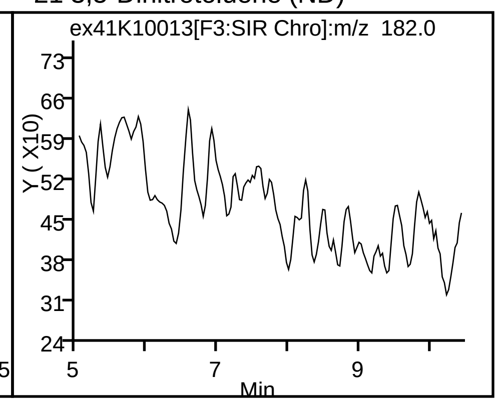
19 2,4-Dinitrotoluene (ND)



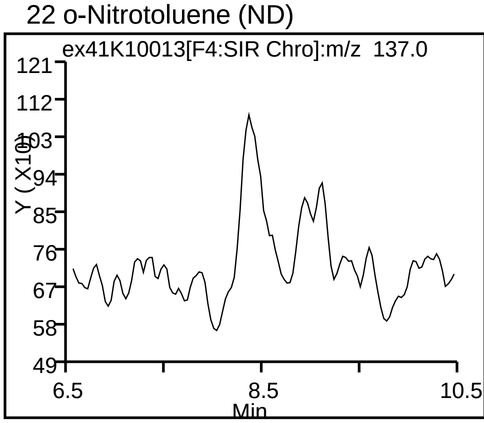
20 PETN (ND)



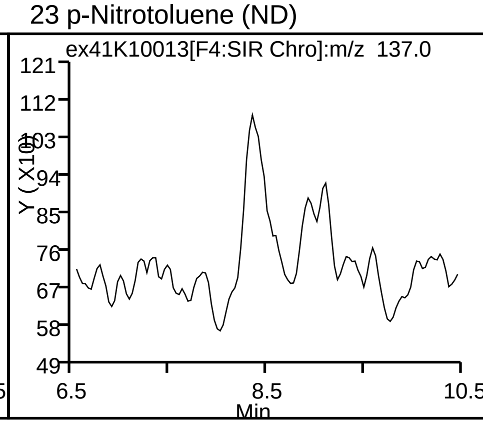
21 3,5-Dinitrotoluene (ND)



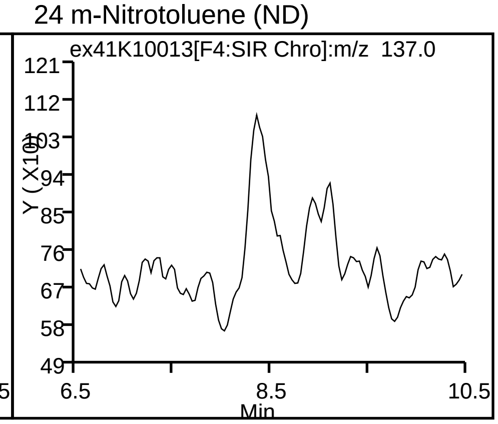
22 o-Nitrotoluene (ND)



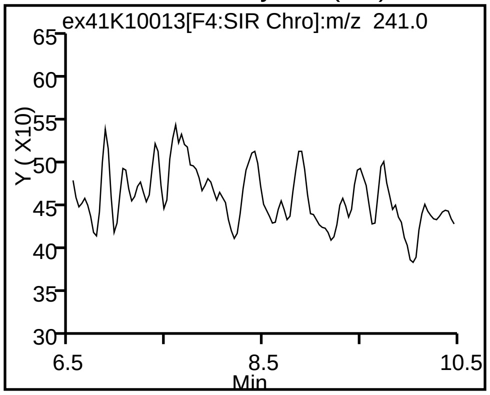
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-95682/1-A

Matrix: Solid   Lab File ID: ex41K10125.d

Analysis Method: 8321B   Date Collected:

Extraction Method: 8330B   Date Extracted: 11/10/2011 15:50

Sample wt/vol: 10.47(g)   Date Analyzed: 11/14/2011 14:42

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 96232   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.024	U	0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.012	U	0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.012	U	0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.012	U	0.096	0.012	0.0078
606-20-2	2,6-Dinitrotoluene	0.024	U	0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.024	U	0.096	0.024	0.011
88-72-2	2-Nitrotoluene	0.012	U	0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.024	U	0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.012	U	0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.024	U	0.096	0.024	0.011
2691-41-0	HMX	0.012	U	0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.012	U	0.096	0.012	0.010
55-63-0	Nitroglycerin	0.012	U	0.096	0.012	0.010
78-11-5	PETN	0.012	U	0.096	0.012	0.0049
121-82-4	RDX	0.012	U	0.096	0.012	0.0041
479-45-8	Tetryl	0.012	U	0.096	0.012	0.0072

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	98		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10125.d		
Lims ID:	MB 280-95682/1-A	Client ID:	
Inject. Date:	14-Nov-2011 14:42:51	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 280-95682/1-A 280-0002749-078		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	37
Lims Batch ID:	96232	Lims Sample ID:	78
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\8321exp4-25.m		
Last Update:	15-Nov-2011 07:04:58	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	15-Nov-2011 07:00:10

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		866807	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2440692	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1472993	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		4.994							
9 Nitroglycerin										
2	61.8		5.034							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.506	-0.034	1.105	620487	96.5			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.654							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.201	-0.031		4499308	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

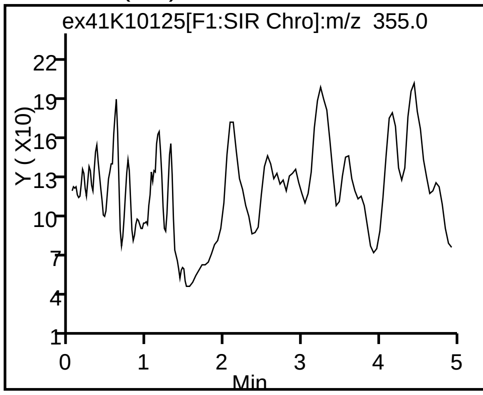
QC Flag Legend

Processing Flags
1 - Missing Peaks

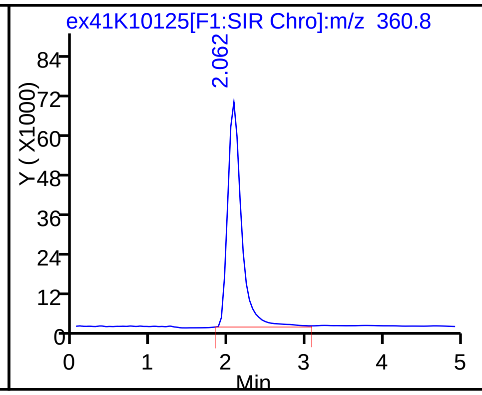
Report Date: 15-Nov-2011 07:05:00 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10125.d

Injection Date:	14-Nov-2011 14:42:51	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	78
Operator ID:		Injection Vol:	40.00 ul

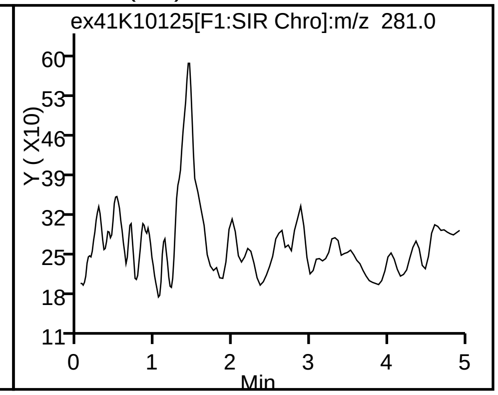
2 HMX (ND)



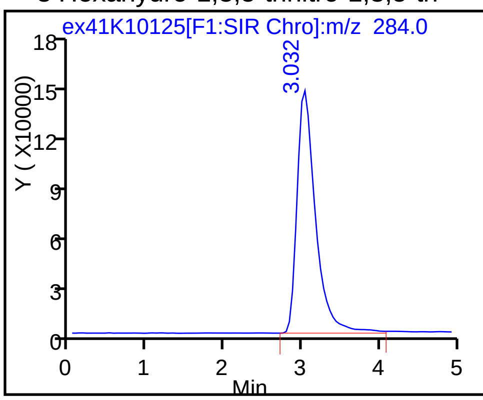
* 1 HMX-13C4



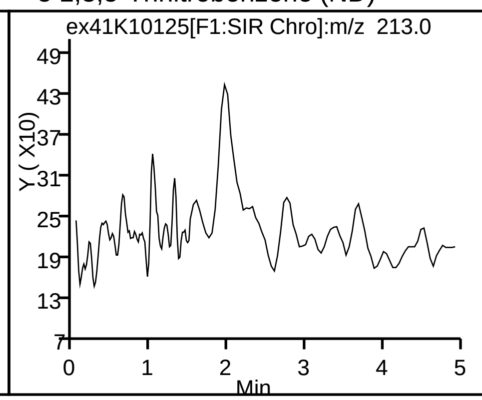
4 RDX (ND)



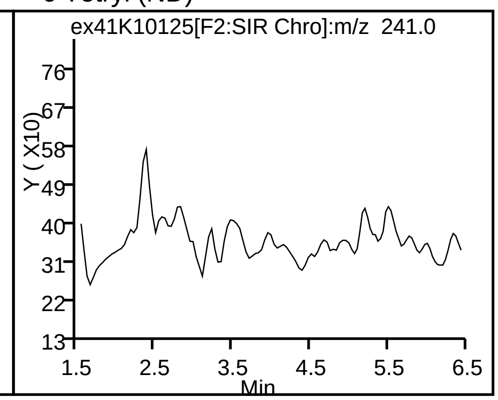
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



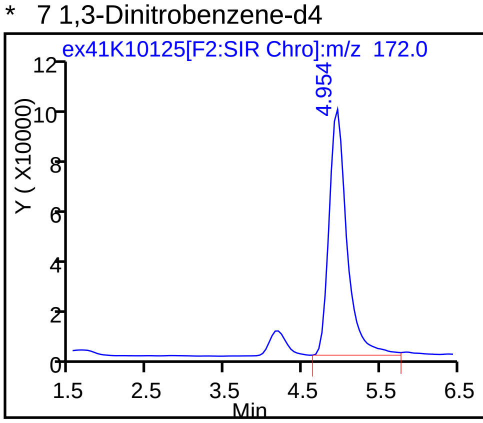
5 1,3,5-Trinitrobenzene (ND)



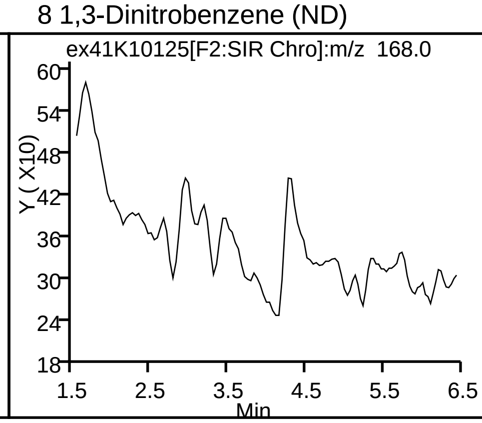
6 Tetryl (ND)



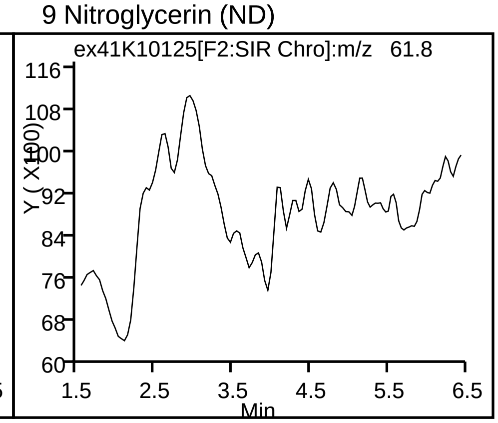
* 7 1,3-Dinitrobenzene-d4



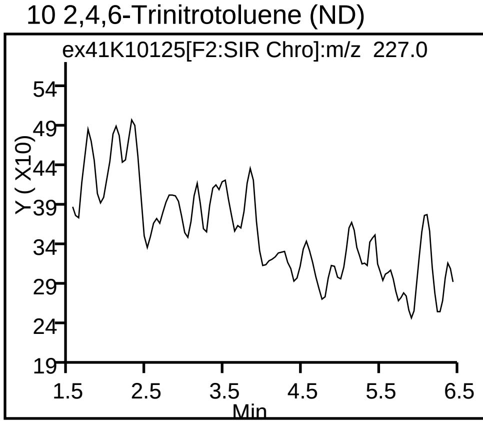
8 1,3-Dinitrobenzene (ND)



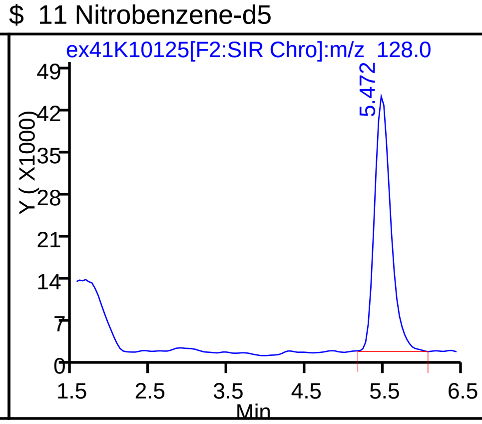
9 Nitroglycerin (ND)



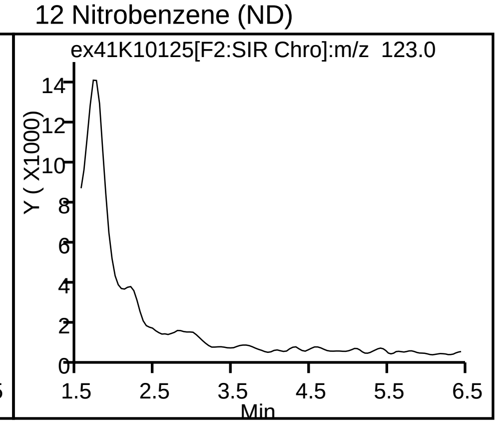
10 2,4,6-Trinitrotoluene (ND)



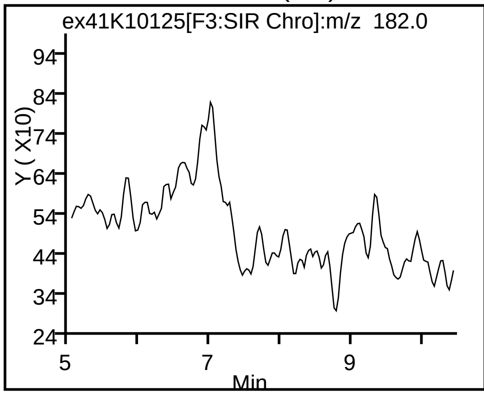
$ 11 Nitrobenzene-d5



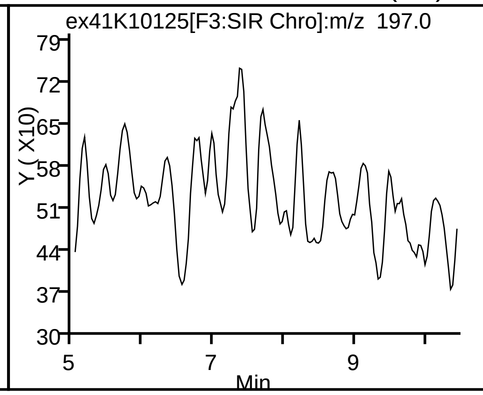
12 Nitrobenzene (ND)



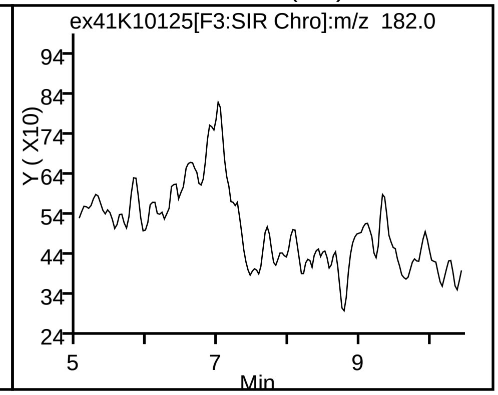
13 3,4-Dinitrotoluene (ND)



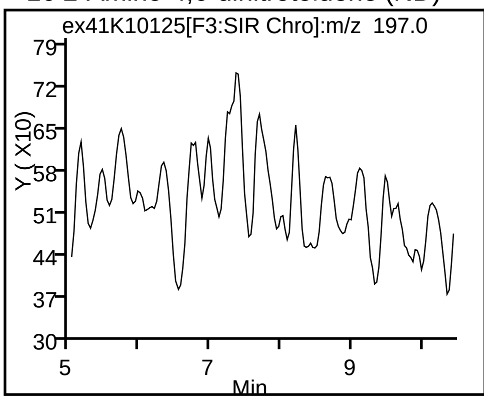
14 4-Amino-2,6-dinitrotoluene (ND)



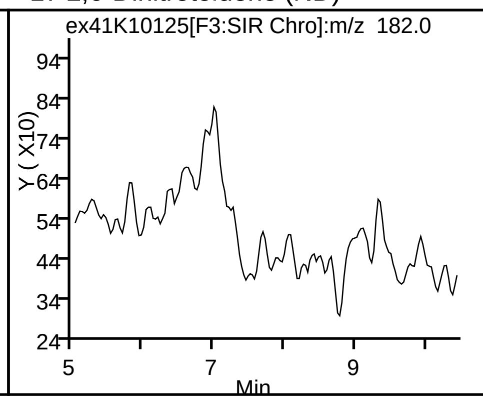
15 2,3-Dinitrotoluene (ND)



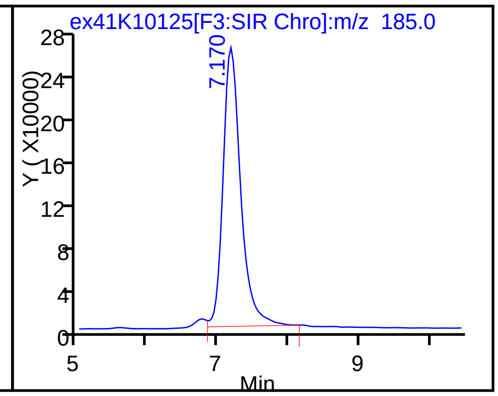
16 2-Amino-4,6-dinitrotoluene (ND)



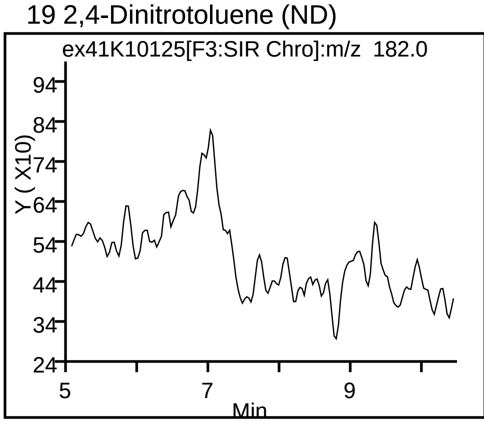
17 2,6-Dinitrotoluene (ND)



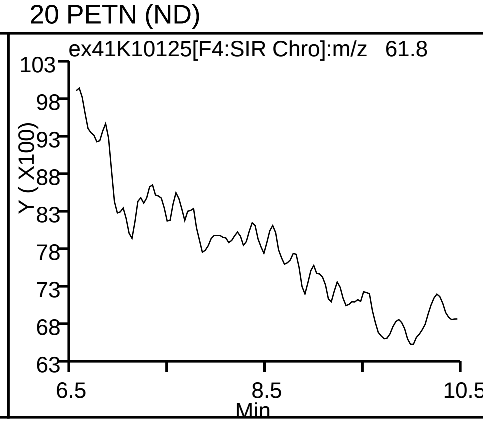
* 18 2,4-dinitrotoluene-d3



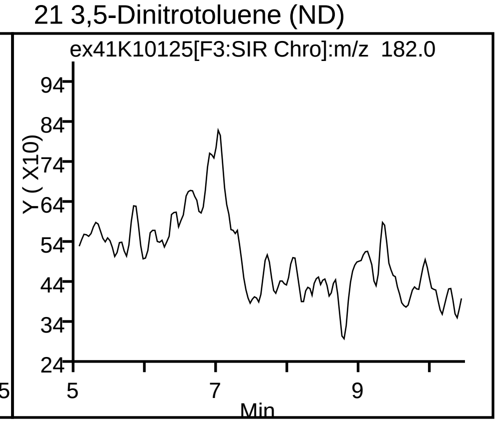
19 2,4-Dinitrotoluene (ND)



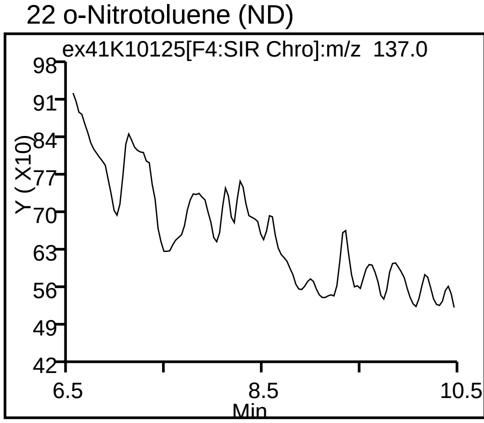
20 PETN (ND)



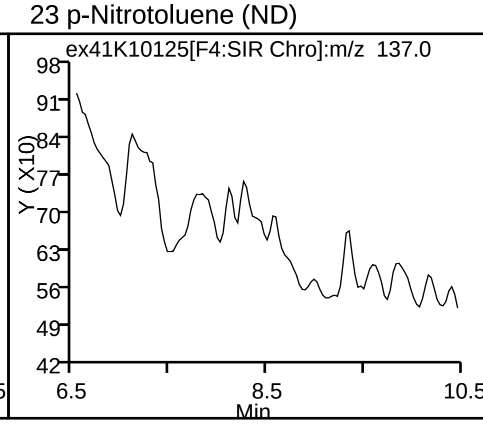
21 3,5-Dinitrotoluene (ND)



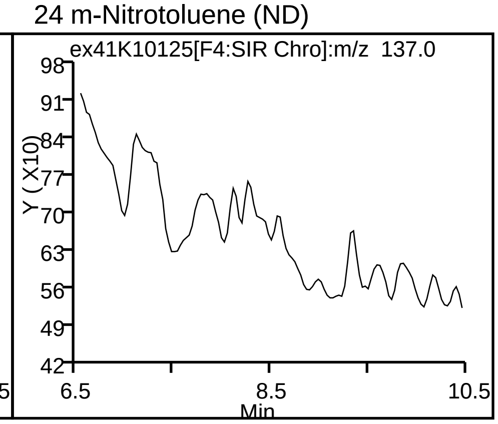
22 o-Nitrotoluene (ND)



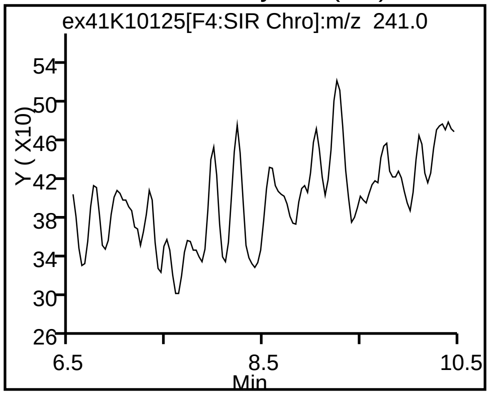
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver　　Job No.: 280-22438-1

SDG No.:

Client Sample ID:　　Lab Sample ID: ICB 280-95626/8

Matrix: Water　　Lab File ID: ex41K10010.d

Analysis Method: 8321B　　Date Collected:

Extraction Method:　　Date Extracted:

Sample wt/vol: 1(mL)　　Date Analyzed: 11/10/2011 11:46

Con. Extract Vol.: 1.0(mL)　　Dilution Factor: 1

Injection Volume: 40(uL)　　GC Column: IonPac　　ID: 2(mm)

% Moisture:　　GPC Cleanup:(Y/N) N

Analysis Batch No.: 95626　　Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.050	U	20	0.050	3.4
99-65-0	1,3-Dinitrobenzene	0.050	U	20	0.050	2.8
118-96-7	2,4,6-Trinitrotoluene	0.050	U	20	0.050	4.4
121-14-2	2,4-Dinitrotoluene	0.050	U	20	0.050	3.8
606-20-2	2,6-Dinitrotoluene	0.050	U	20	0.050	4.4
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	20	0.050	4.2
88-72-2	2-Nitrotoluene	0.050	U	20	0.050	4.4
99-08-1	3-Nitrotoluene	0.050	U	20	0.050	5.0
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	20	0.050	3.8
99-99-0	4-Nitrotoluene	0.050	U	20	0.050	5.2
2691-41-0	HMX	0.050	U	20	0.050	3.8
98-95-3	Nitrobenzene	0.050	U	20	0.050	6.6
55-63-0	Nitroglycerin	0.050	U	28	0.050	9.0
78-11-5	PETN	0.050	U	20	0.050	3.6
121-82-4	RDX	0.050	U	20	0.050	4.2
479-45-8	Tetryl	0.050	U	20	0.050	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5			

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10010.d		
Lims ID:	ICB	Client ID:	
Inject. Date:	10-Nov-2011 11:46:25	Dil. Factor:	1.0000
Sample Type:	ICB		
Sample ID:	11/10/11BLK ICB 280-0002741-008		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	1
Lims Batch ID:	95626	Lims Sample ID:	8
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:12	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		826307	250.0			
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2610667	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1894140	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	405281	49.0			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.261	7.201	0.060		5104410	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

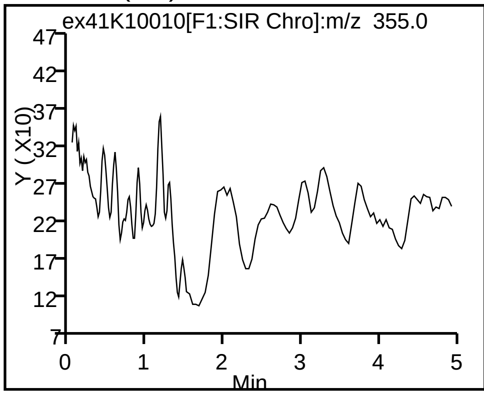
QC Flag Legend

Processing Flags
1 - Missing Peaks

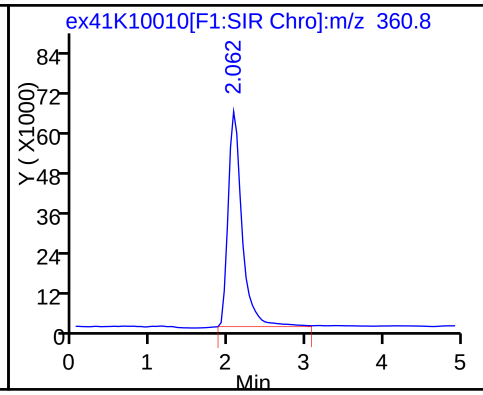
Report Date: 11-Nov-2011 06:40:14 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10010.d

Injection Date:	10-Nov-2011 11:46:25	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	8
Operator ID:		Injection Vol:	40.00 ul

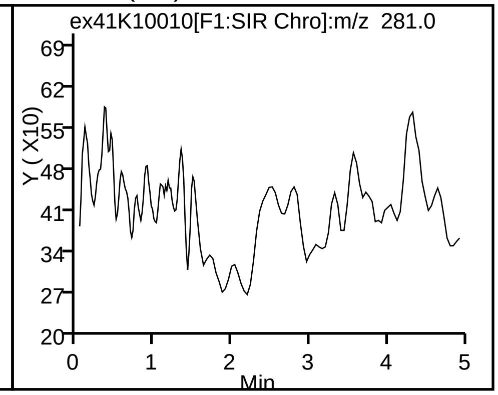
2 HMX (ND)



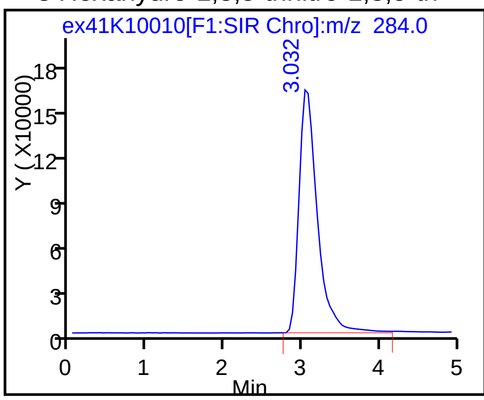
* 1 HMX-13C4



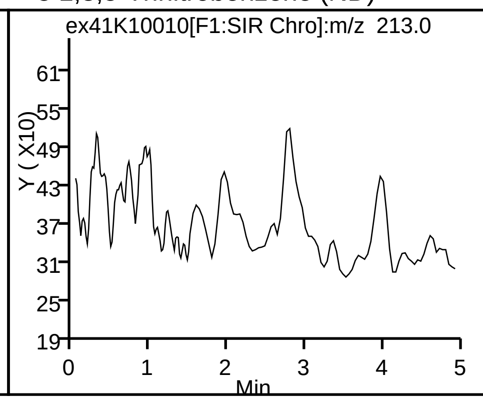
4 RDX (ND)



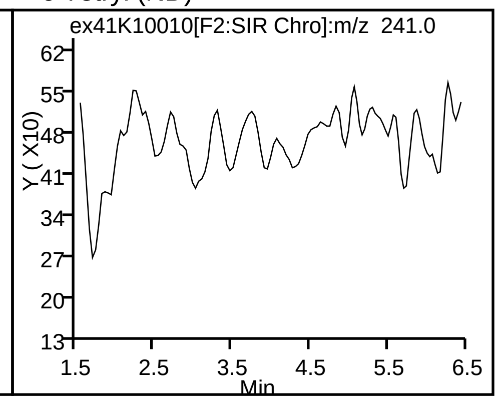
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



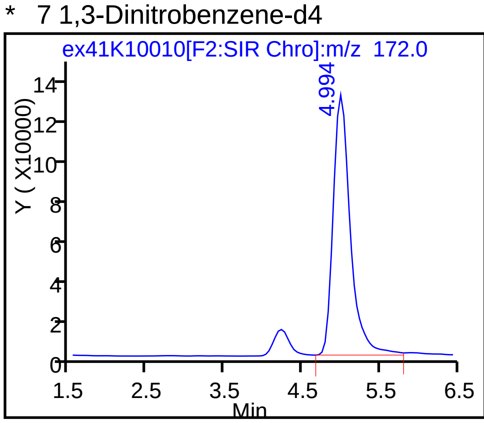
5 1,3,5-Trinitrobenzene (ND)



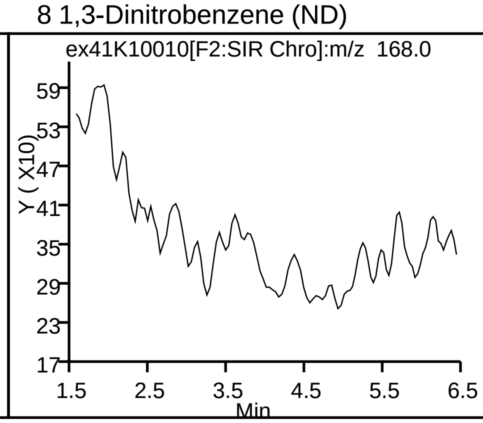
6 Tetryl (ND)



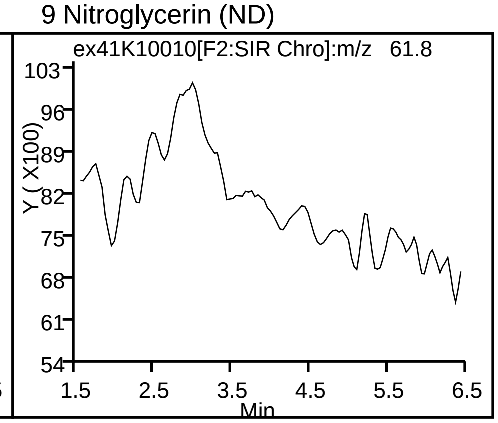
* 7 1,3-Dinitrobenzene-d4



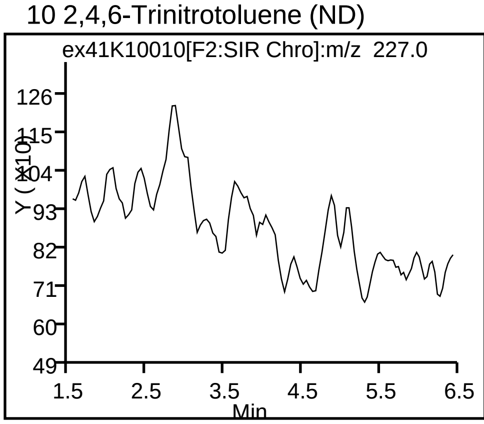
8 1,3-Dinitrobenzene (ND)



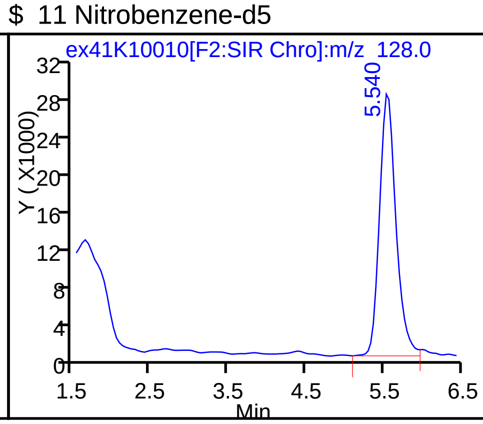
9 Nitroglycerin (ND)



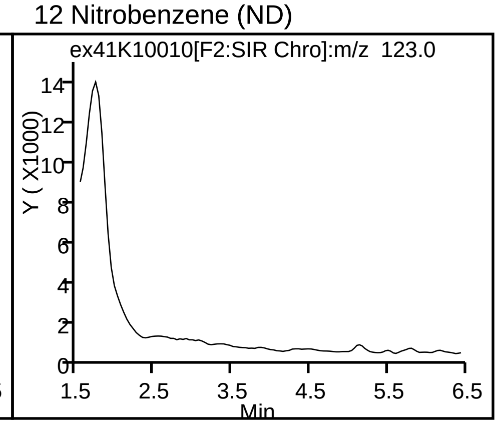
10 2,4,6-Trinitrotoluene (ND)



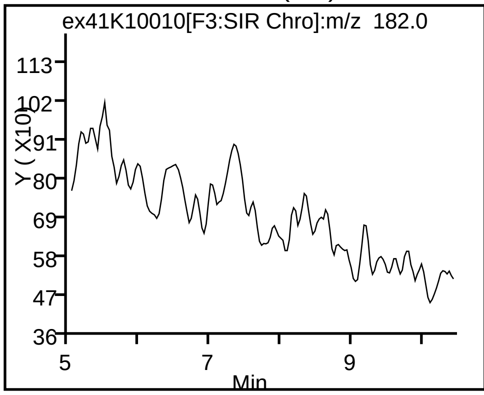
$ 11 Nitrobenzene-d5



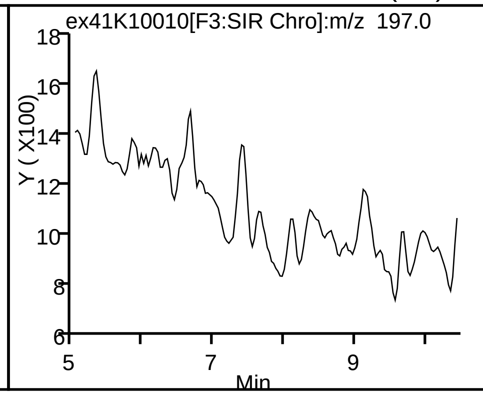
12 Nitrobenzene (ND)



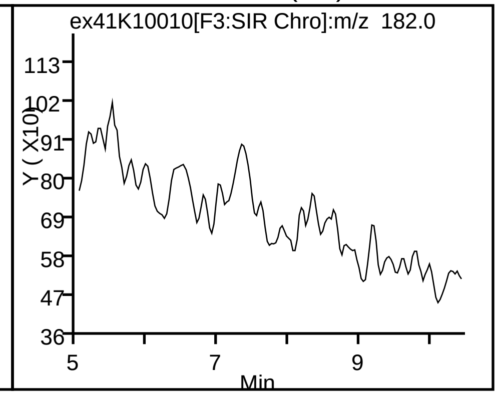
13 3,4-Dinitrotoluene (ND)



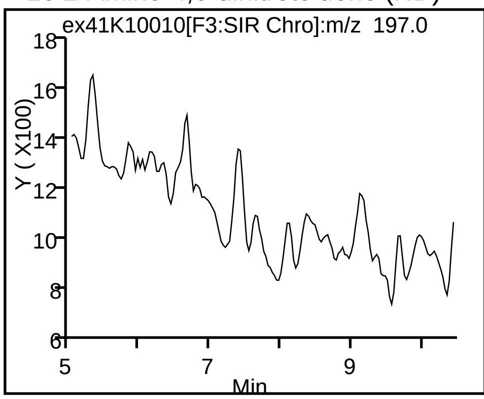
14 4-Amino-2,6-dinitrotoluene (ND)



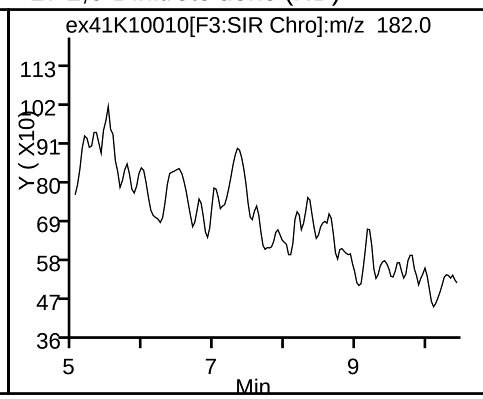
15 2,3-Dinitrotoluene (ND)



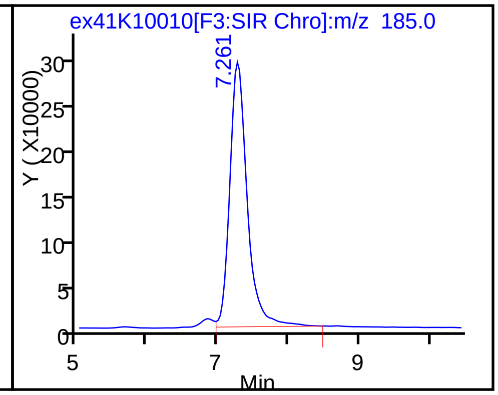
16 2-Amino-4,6-dinitrotoluene (ND)



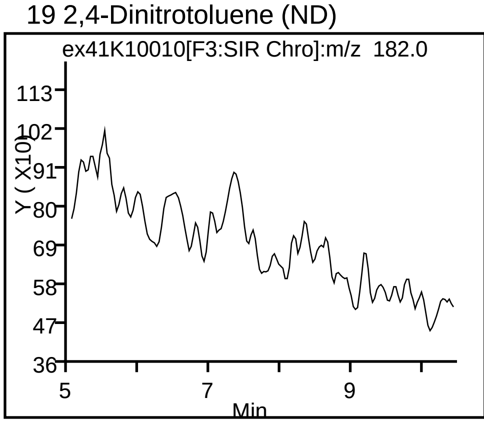
17 2,6-Dinitrotoluene (ND)



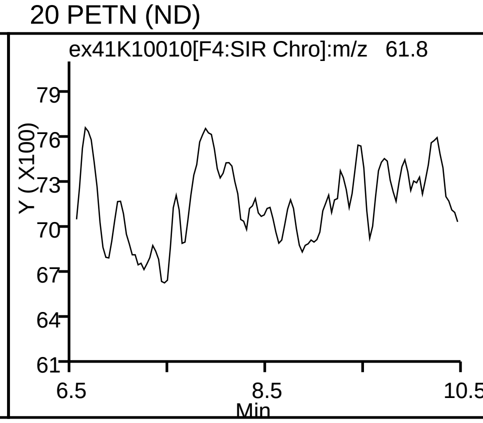
* 18 2,4-dinitrotoluene-d3



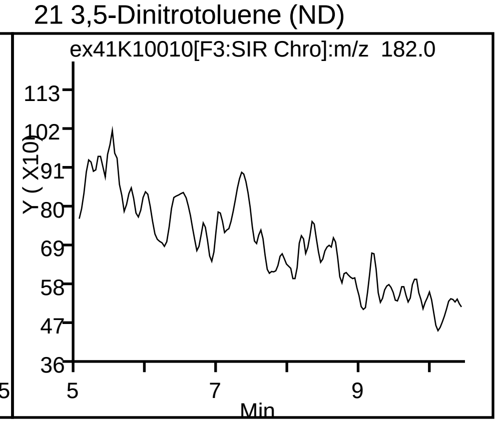
19 2,4-Dinitrotoluene (ND)



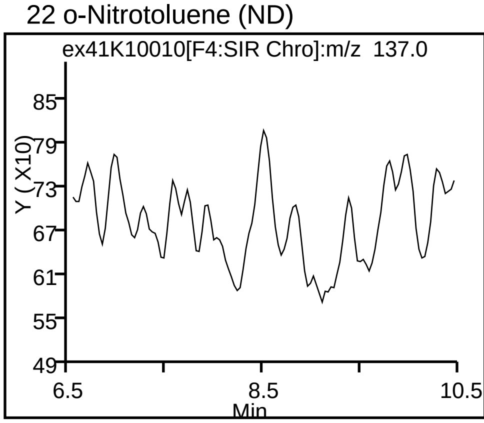
20 PETN (ND)



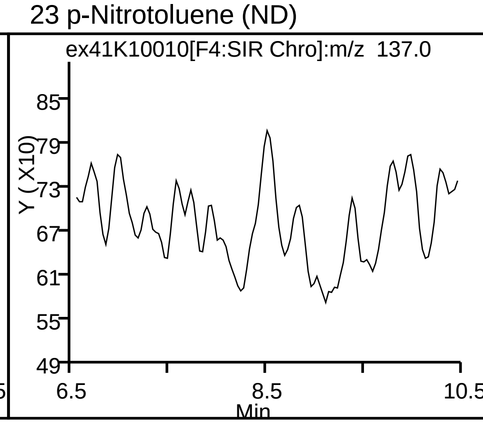
21 3,5-Dinitrotoluene (ND)



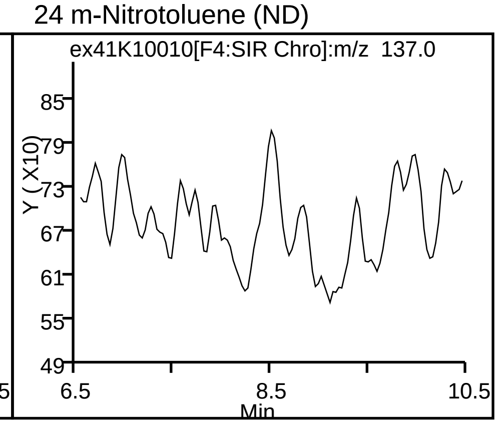
22 o-Nitrotoluene (ND)



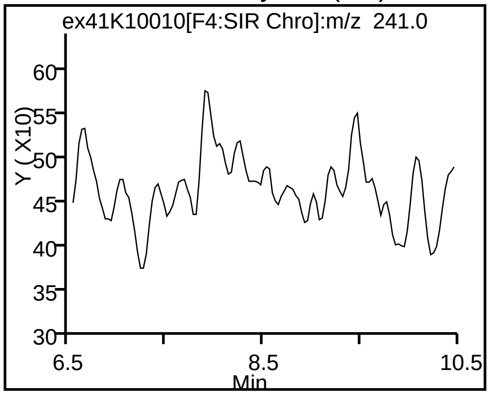
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-95077/2-A

Matrix: Water | Lab File ID: ex41K10014.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 3535 | Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1000(mL) | Date Analyzed: 11/10/2011 12:37

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac | ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.445		0.10	0.050	0.017
99-65-0	1,3-Dinitrobenzene	0.521		0.10	0.050	0.014
118-96-7	2,4,6-Trinitrotoluene	0.208		0.10	0.050	0.022
121-14-2	2,4-Dinitrotoluene	0.482		0.10	0.050	0.019
606-20-2	2,6-Dinitrotoluene	0.449		0.10	0.050	0.022
35572-78-2	2-Amino-4,6-dinitrotoluene	0.462		0.10	0.050	0.021
88-72-2	2-Nitrotoluene	0.365		0.10	0.050	0.022
99-08-1	3-Nitrotoluene	0.415		0.10	0.050	0.025
19406-51-0	4-Amino-2,6-dinitrotoluene	0.481		0.10	0.050	0.019
99-99-0	4-Nitrotoluene	0.402		0.10	0.050	0.026
2691-41-0	HMX	0.449		0.10	0.050	0.019
98-95-3	Nitrobenzene	0.382		0.10	0.050	0.033
55-63-0	Nitroglycerin	0.459		0.14	0.050	0.045
78-11-5	PETN	0.464		0.10	0.050	0.018
121-82-4	RDX	0.474		0.10	0.050	0.021
479-45-8	Tetryl	0.163		0.10	0.050	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	72		48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10014.d		
Lims ID:	LCS 280-95077/2-A	Client ID:	
Inject. Date:	10-Nov-2011 12:37:11	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS 280-95077/2-A 280-0002741-012		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	44
Lims Batch ID:	95629	Lims Sample ID:	12
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:12	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

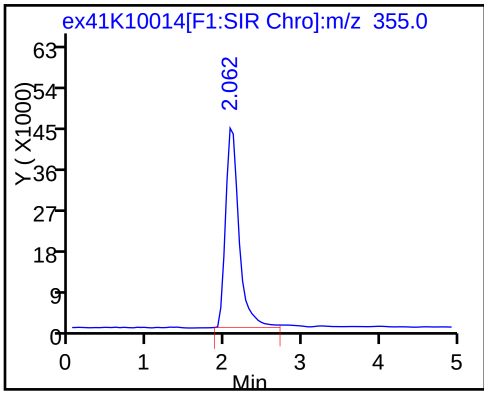
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	543342	89.7			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		730574	250.0			
4 RDX										
1	281.0	3.072	3.032	0.040	1.000	932678	94.8			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		2572681	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.839	3.759	0.080	1.000	661865	88.9			
6 Tetryl										
2	241.0	4.550	4.469	0.081	0.904	285833	32.5			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	5.034	4.954	0.080		1854587	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.102	5.035	0.067	1.013	816051	104.1			
9 Nitroglycerin										
2	61.8	5.102	5.035	0.067	1.013	4155490	91.8			
10 2,4,6-Trinitrotoluene										
2	227.0	5.506	5.405	0.101	1.094	1426049	41.6			
$ 11 Nitrobenzene-d5										
2	128.0	5.573	5.506	0.067	1.107	575033	71.0			
12 Nitrobenzene										
2	123.0	5.708	5.607	0.101	1.134	493709	76.4			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.189	6.088	0.101	0.849	2410610	96.1			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.806	6.685	0.121	0.933	3310136	92.3			
17 2,6-Dinitrotoluene										
3	182.0	6.958	6.837	0.121	0.954	4312021	89.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.292	7.201	0.091		4691186	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.383	7.261	0.122	1.012	2328372	96.3			
20 PETN										
4	61.8	7.828	7.707	0.121	1.000	3981049	92.7			
22 o-Nitrotoluene										
4	137.0	8.345	8.254	0.091	1.000	725893	73.0			
23 p-Nitrotoluene										
4	137.0	8.922	8.770	0.152	1.000	694006	80.4			
24 m-Nitrotoluene										
4	137.0	9.590	9.438	0.152	1.000	451502	83.0			

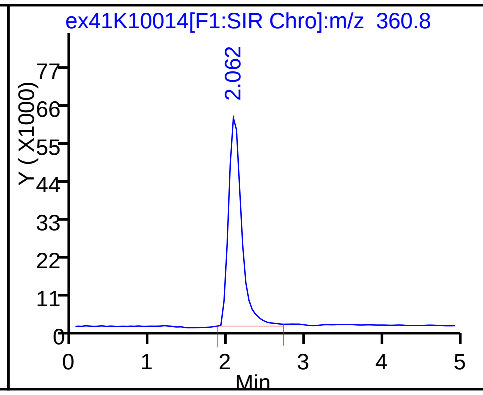
Report Date: 11-Nov-2011 06:40:18 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10014.d

Injection Date:	10-Nov-2011 12:37:11	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	12
Operator ID:		Injection Vol:	40.00 ul

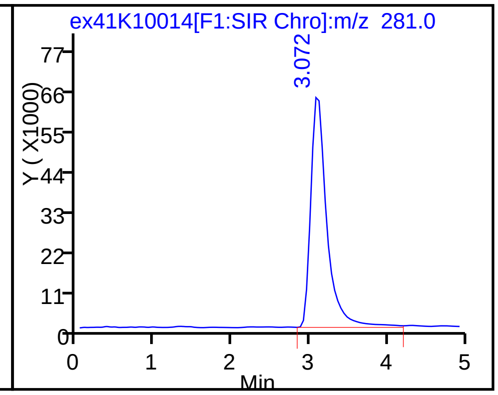
2 HMX



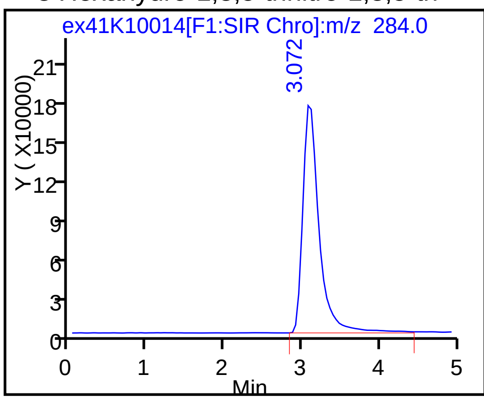
* 1 HMX-13C4



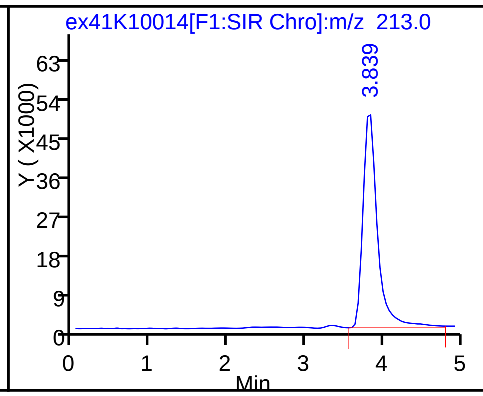
4 RDX



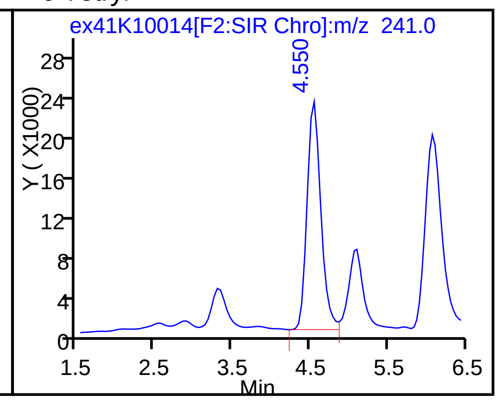
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



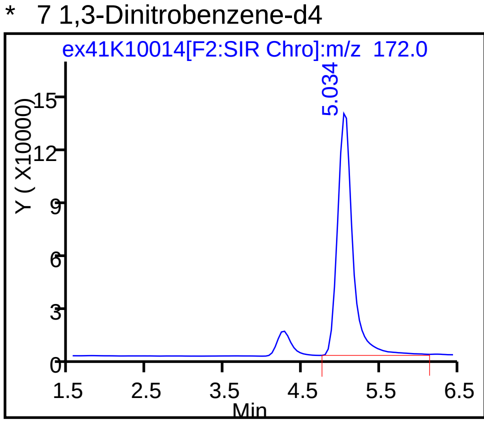
5 1,3,5-Trinitrobenzene



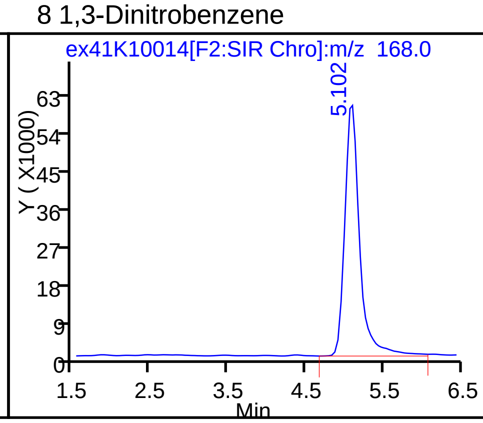
6 Tetryl



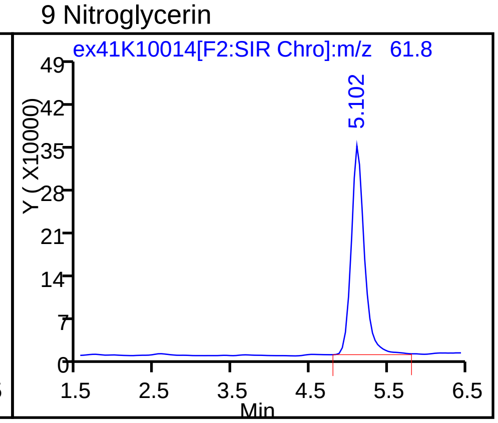
* 7 1,3-Dinitrobenzene-d4



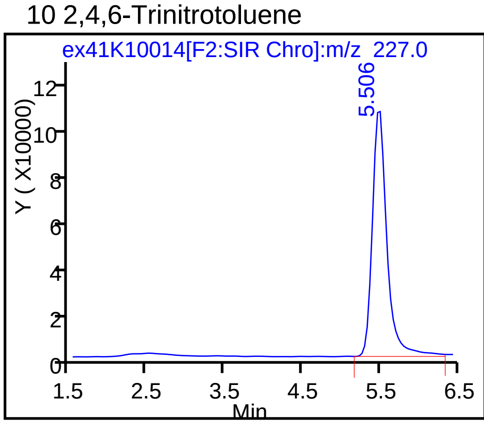
8 1,3-Dinitrobenzene



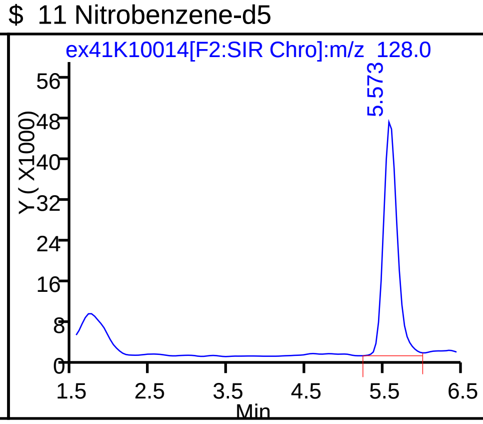
9 Nitroglycerin



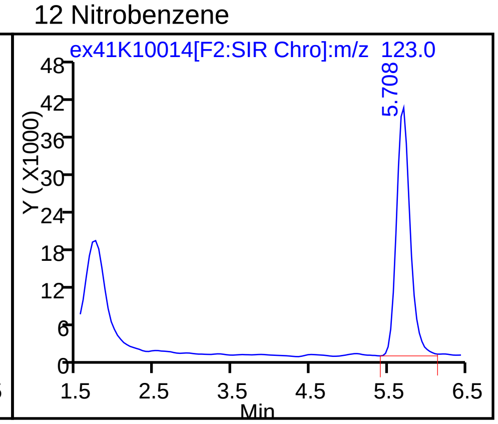
10 2,4,6-Trinitrotoluene



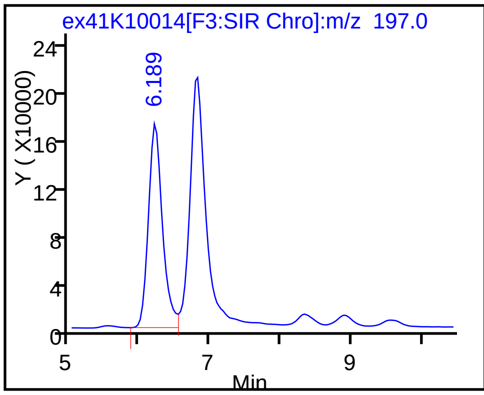
$ 11 Nitrobenzene-d5



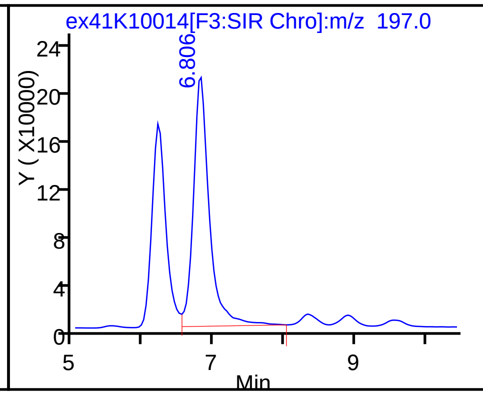
12 Nitrobenzene



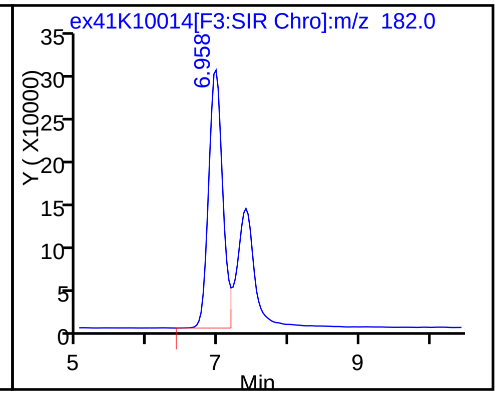
14 4-Amino-2,6-dinitrotoluene



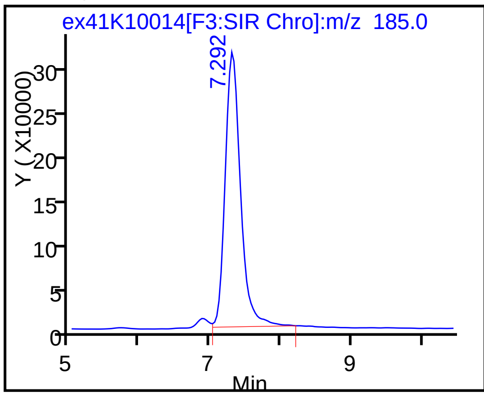
16 2-Amino-4,6-dinitrotoluene



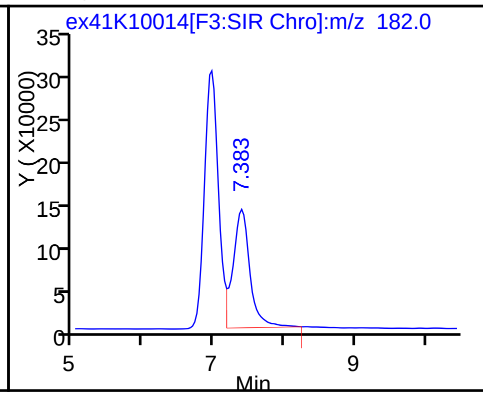
17 2,6-Dinitrotoluene



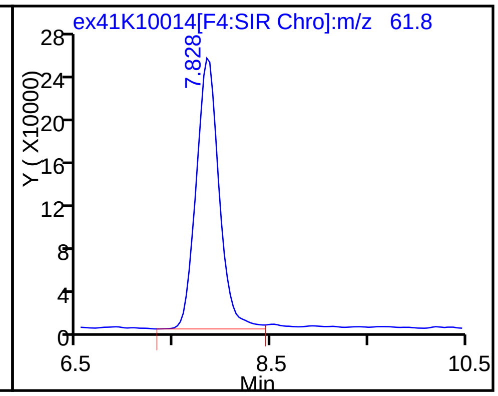
* 18 2,4-dinitrotoluene-d3



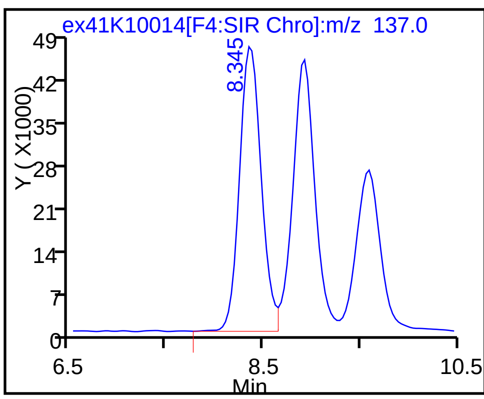
19 2,4-Dinitrotoluene



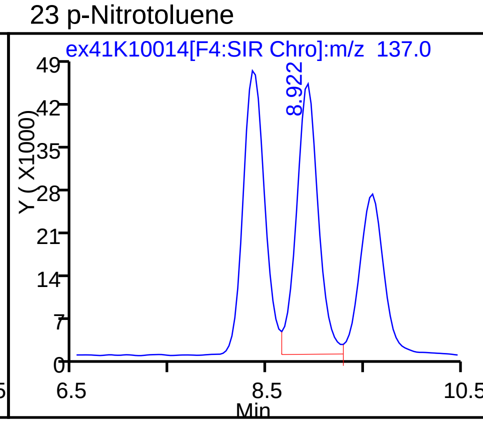
20 PETN



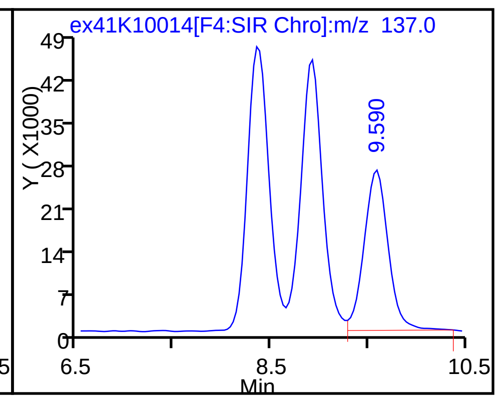
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 280-95682/2-A

Matrix: Solid | Lab File ID: ex41K10126.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 8330B | Date Extracted: 11/10/2011 15:50

Sample wt/vol: 10.36(g) | Date Analyzed: 11/14/2011 14:55

Con. Extract Vol.: 40(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac | ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 96232 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.369		0.097	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.425		0.097	0.012	0.0069
118-96-7	2,4,6-Trinitrotoluene	0.425		0.097	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.375		0.097	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.394		0.097	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.369		0.097	0.024	0.012
88-72-2	2-Nitrotoluene	0.399		0.097	0.012	0.0055
99-08-1	3-Nitrotoluene	0.381		0.097	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.374		0.097	0.012	0.0049
99-99-0	4-Nitrotoluene	0.378		0.097	0.024	0.011
2691-41-0	HMX	0.362		0.097	0.012	0.0056
98-95-3	Nitrobenzene	0.407		0.097	0.012	0.010
55-63-0	Nitroglycerin	0.360		0.097	0.012	0.010
78-11-5	PETN	0.388		0.097	0.012	0.0050
121-82-4	RDX	0.366		0.097	0.012	0.0042
479-45-8	Tetryl	0.517		0.097	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	105		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10126.d		
Lims ID:	LCS 280-95682/2-A	Client ID:	
Inject. Date:	14-Nov-2011 14:55:12	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS 280-95682/2-A 280-0002749-079		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	38
Lims Batch ID:	96232	Lims Sample ID:	79
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\8321exp4-25.m		
Last Update:	15-Nov-2011 07:04:58	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

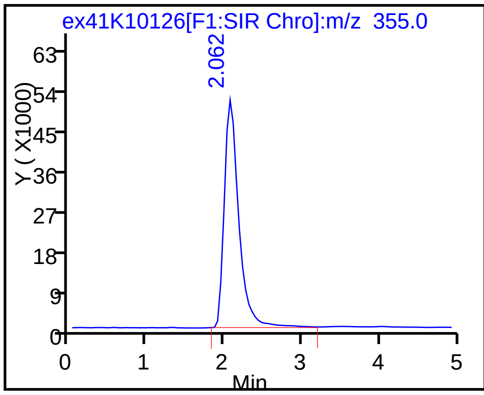
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	675610	93.7			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		870102	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1119017	94.9			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		3083044	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	645658	95.5			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	1122955	134.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1683166	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	783305	110.0			
9 Nitroglycerin										
2	61.8	4.994	5.034	-0.040	1.008	3825324	93.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	3503129	110.2			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.506	-0.034	1.105	761920	103.7			
12 Nitrobenzene										
2	123.0	5.573	5.607	-0.034	1.125	620760	105.4			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.849	2523205	96.9			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.654	0.000	0.928	3563367	95.6			
17 2,6-Dinitrotoluene										
3	182.0	6.806	6.837	-0.031	0.949	5102191	102.1			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.201	-0.031		4872932	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.231	7.261	-0.030	1.008	2440176	97.2			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	4479943	100.5			
22 o-Nitrotoluene										
4	137.0	8.223	8.223	0.000	1.000	1072248	103.4			
23 p-Nitrotoluene										
4	137.0	8.739	8.770	-0.031	1.000	880649	97.9			
24 m-Nitrotoluene										
4	137.0	9.408	9.438	-0.030	1.000	558239	98.7			

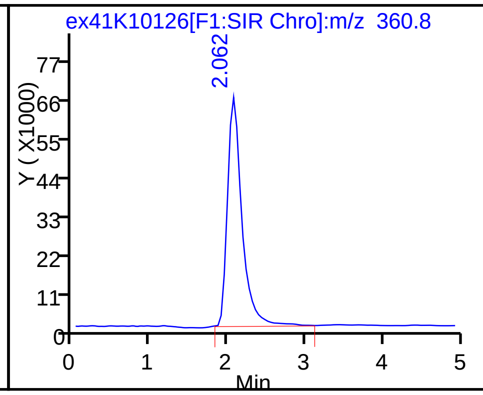
Report Date: 15-Nov-2011 07:05:01 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10126.d

Injection Date:	14-Nov-2011 14:55:12	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	79
Operator ID:		Injection Vol:	40.00 ul

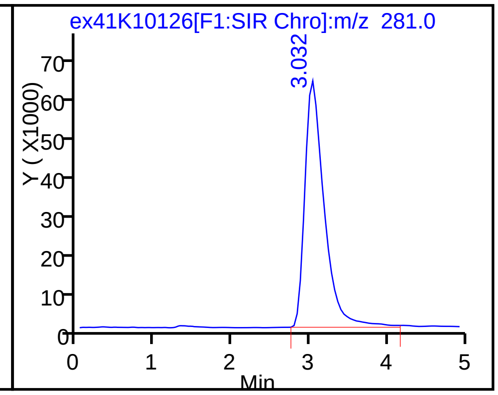
2 HMX



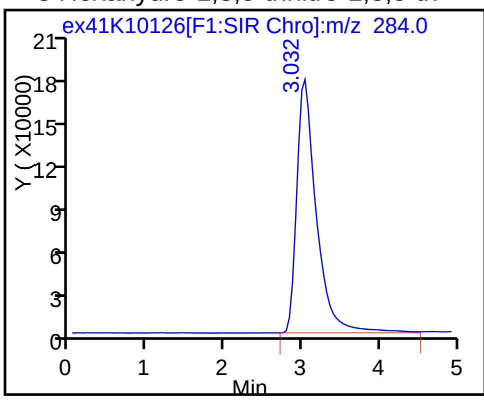
* 1 HMX-13C4



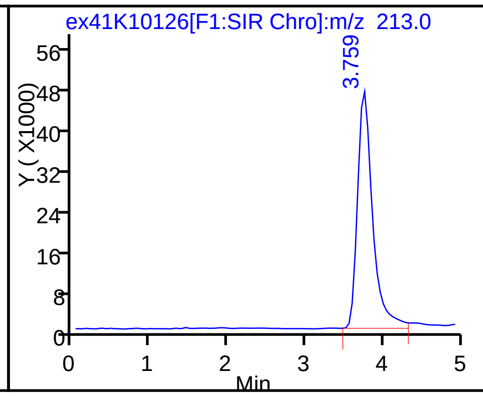
4 RDX



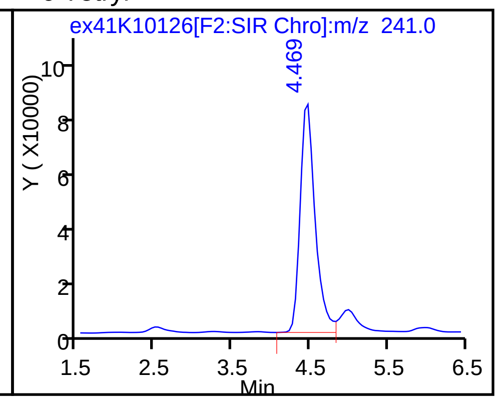
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



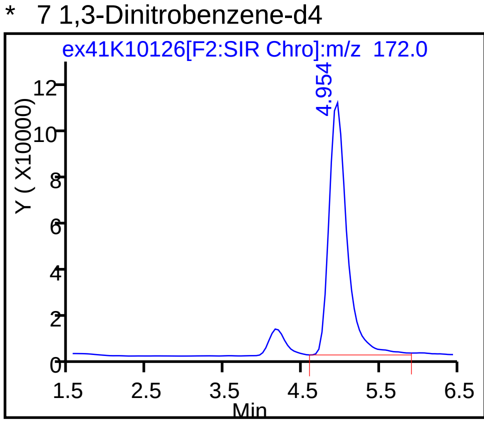
5 1,3,5-Trinitrobenzene



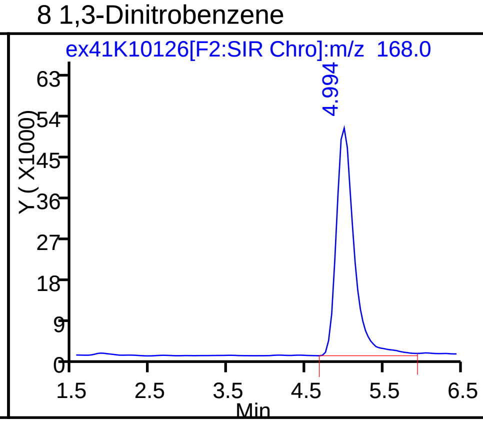
6 Tetryl



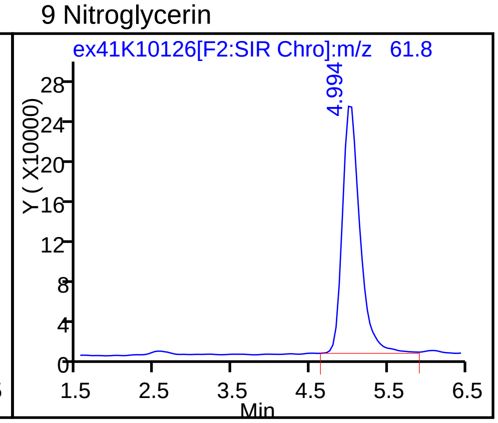
* 7 1,3-Dinitrobenzene-d4



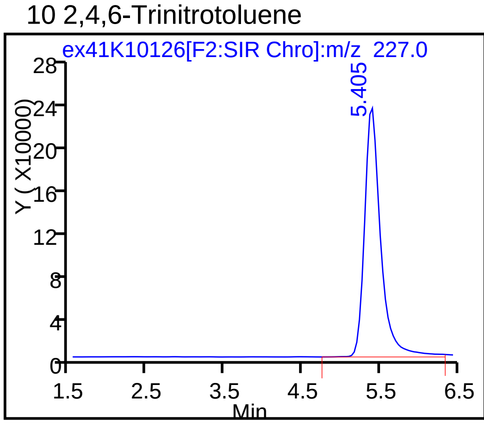
8 1,3-Dinitrobenzene



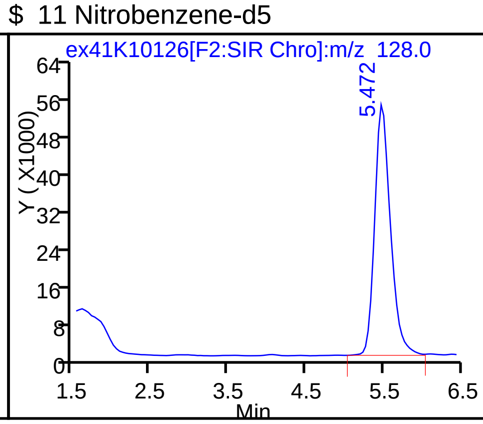
9 Nitroglycerin



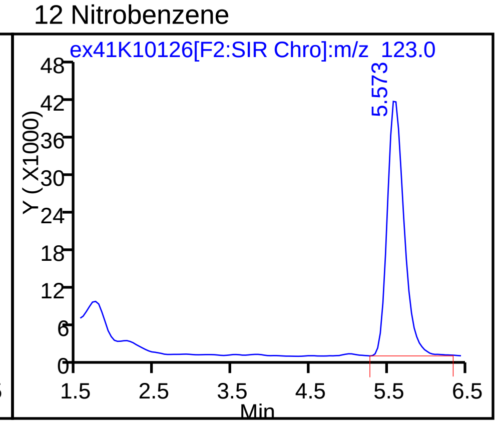
10 2,4,6-Trinitrotoluene



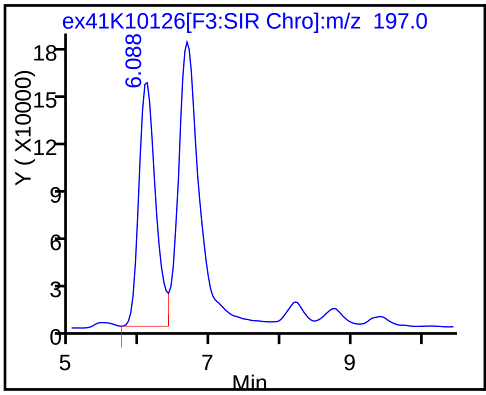
$ 11 Nitrobenzene-d5



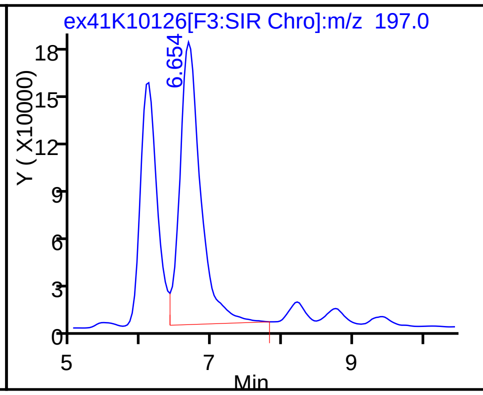
12 Nitrobenzene



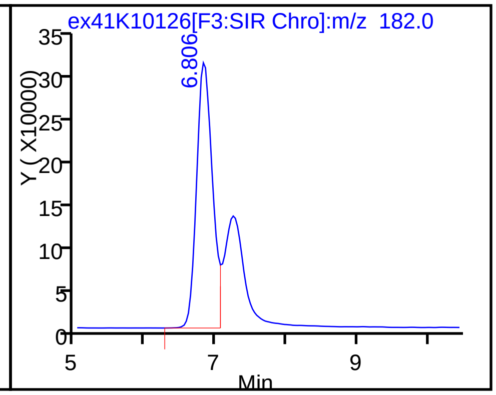
14 4-Amino-2,6-dinitrotoluene



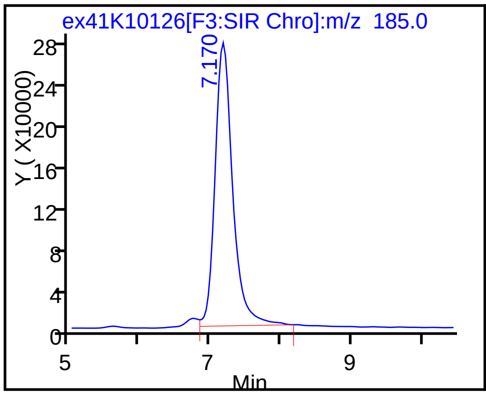
16 2-Amino-4,6-dinitrotoluene



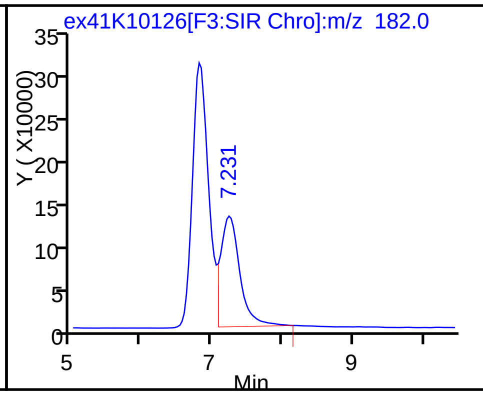
17 2,6-Dinitrotoluene



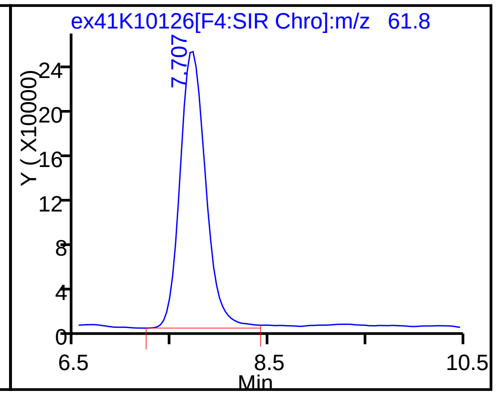
* 18 2,4-dinitrotoluene-d3



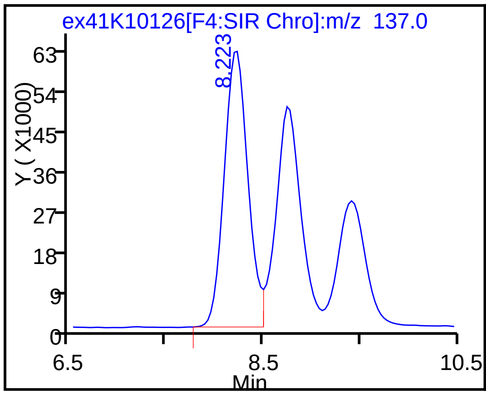
19 2,4-Dinitrotoluene



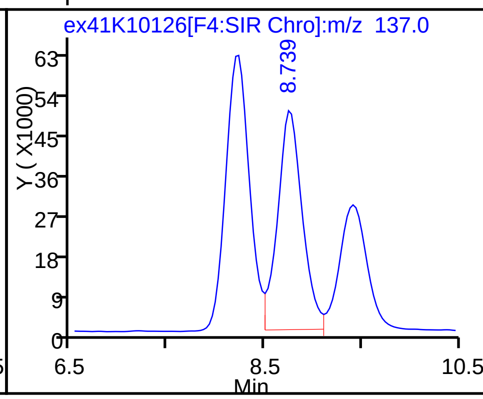
20 PETN



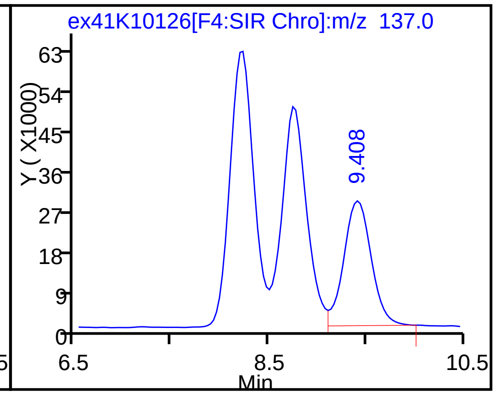
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 280-95077/3-A

Matrix: Water | Lab File ID: ex41K10015.d

Analysis Method: 8321B | Date Collected:

Extraction Method: 3535 | Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1000(mL) | Date Analyzed: 11/10/2011 12:49

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 40(uL) | GC Column: IonPac | ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.434		0.10	0.050	0.017
99-65-0	1,3-Dinitrobenzene	0.476		0.10	0.050	0.014
118-96-7	2,4,6-Trinitrotoluene	0.204		0.10	0.050	0.022
121-14-2	2,4-Dinitrotoluene	0.474		0.10	0.050	0.019
606-20-2	2,6-Dinitrotoluene	0.433		0.10	0.050	0.022
35572-78-2	2-Amino-4,6-dinitrotoluene	0.433		0.10	0.050	0.021
88-72-2	2-Nitrotoluene	0.361		0.10	0.050	0.022
99-08-1	3-Nitrotoluene	0.345		0.10	0.050	0.025
19406-51-0	4-Amino-2,6-dinitrotoluene	0.436		0.10	0.050	0.019
99-99-0	4-Nitrotoluene	0.354		0.10	0.050	0.026
2691-41-0	HMX	0.428		0.10	0.050	0.019
98-95-3	Nitrobenzene	0.379		0.10	0.050	0.033
55-63-0	Nitroglycerin	0.458		0.14	0.050	0.045
78-11-5	PETN	0.519		0.10	0.050	0.018
121-82-4	RDX	0.469		0.10	0.050	0.021
479-45-8	Tetryl	0.155		0.10	0.050	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	67		48-130

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10015.d		
Lims ID:	LCSD 280-95077/3-A	Client ID:	
Inject. Date:	10-Nov-2011 12:49:16	Dil. Factor:	1.0000
Sample Type:	LCSD		
Sample ID:	LCSD 280-95077/3-A 280-0002741-013		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	45
Lims Batch ID:	95629	Lims Sample ID:	13
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:12	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

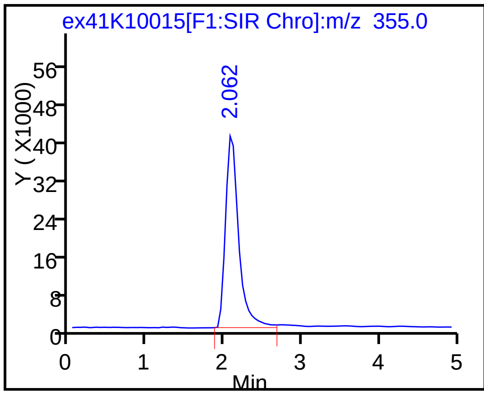
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	483611	85.5			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		682416	250.0			
4 RDX										
1	281.0	3.112	3.032	0.080	1.013	888043	93.8			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		2475529	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.840	3.759	0.081	1.000	628238	86.8			
6 Tetryl										
2	241.0	4.550	4.469	0.081	0.904	263419	30.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	5.035	4.954	0.081		1804961	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.035	0.033	1.007	726219	95.2			
9 Nitroglycerin										
2	61.8	5.102	5.035	0.067	1.013	4027623	91.5			
10 2,4,6-Trinitrotoluene										
2	227.0	5.472	5.405	0.067	1.087	1355828	40.7			
$ 11 Nitrobenzene-d5										
2	128.0	5.573	5.506	0.067	1.107	525028	66.6			
12 Nitrobenzene										
2	123.0	5.708	5.607	0.101	1.134	475908	75.7			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.189	6.088	0.101	0.849	2400032	87.1			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.776	6.685	0.091	0.929	3417247	86.6			
17 2,6-Dinitrotoluene										
3	182.0	6.958	6.837	0.121	0.954	4570019	86.5			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.292	7.201	0.091		5162191	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.383	7.261	0.122	1.012	2519463	94.7			
20 PETN										
4	61.8	7.828	7.707	0.121	1.000	4893643	103.7			
22 o-Nitrotoluene										
4	137.0	8.345	8.254	0.091	1.000	788851	72.2			
23 p-Nitrotoluene										
4	137.0	8.922	8.770	0.152	1.000	669824	70.7			
24 m-Nitrotoluene										
4	137.0	9.590	9.438	0.152	1.000	411444	68.9			

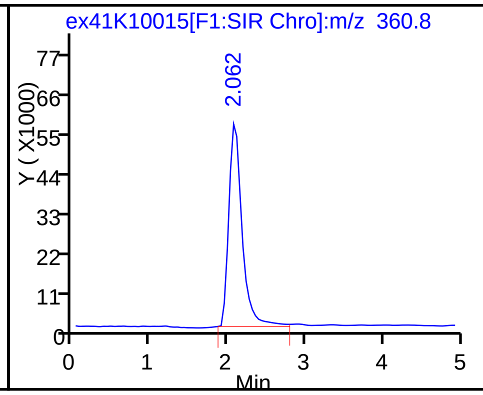
Report Date: 11-Nov-2011 06:40:19 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10015.d

Injection Date:	10-Nov-2011 12:49:16	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	13
Operator ID:		Injection Vol:	40.00 ul

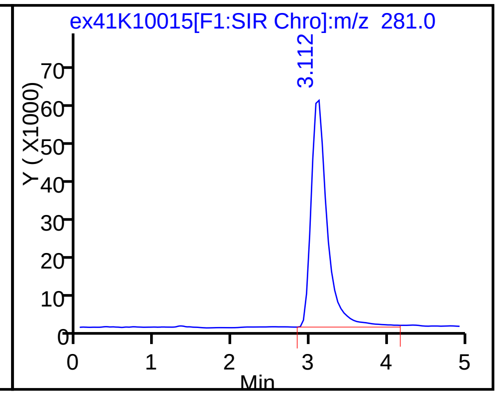
2 HMX



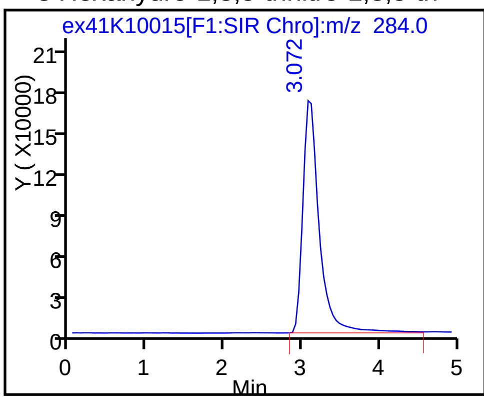
* 1 HMX-13C4



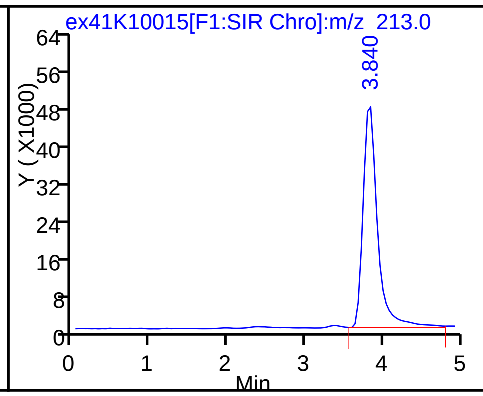
4 RDX



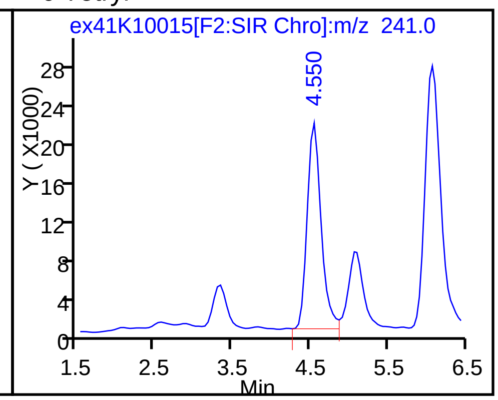
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



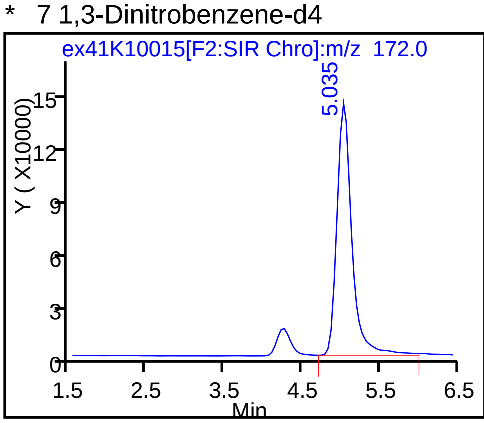
5 1,3,5-Trinitrobenzene



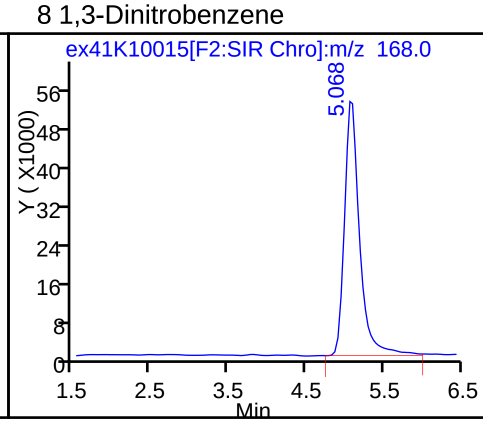
6 Tetryl



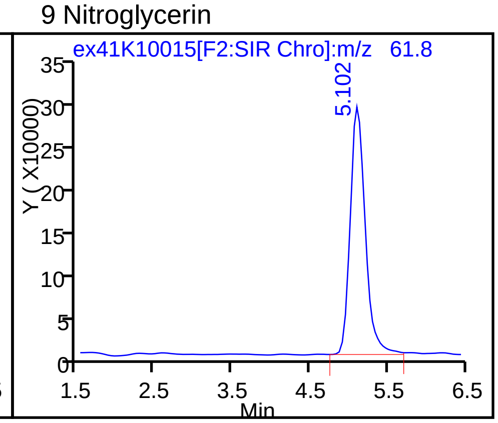
* 7 1,3-Dinitrobenzene-d4



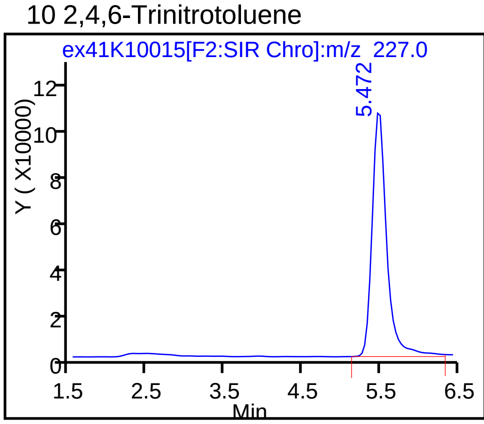
8 1,3-Dinitrobenzene



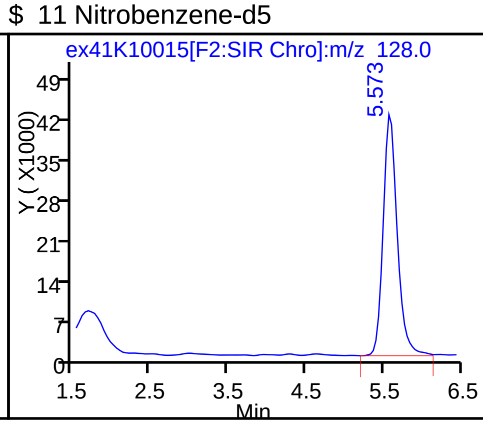
9 Nitroglycerin



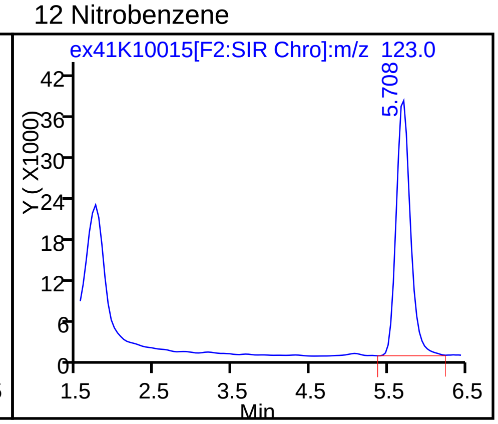
10 2,4,6-Trinitrotoluene



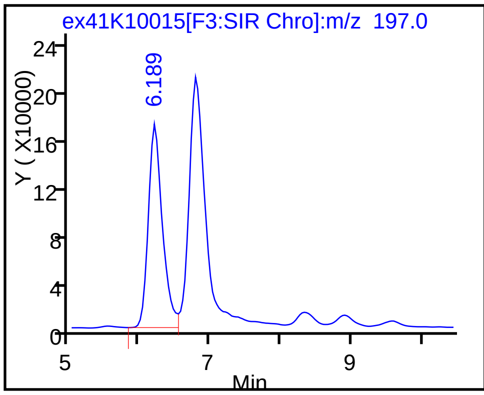
$ 11 Nitrobenzene-d5



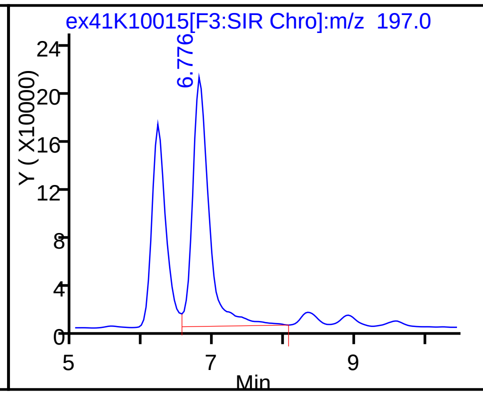
12 Nitrobenzene



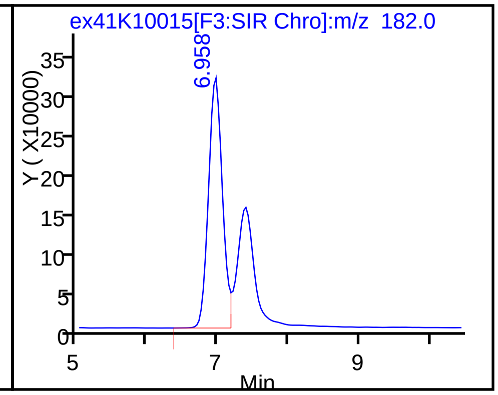
14 4-Amino-2,6-dinitrotoluene



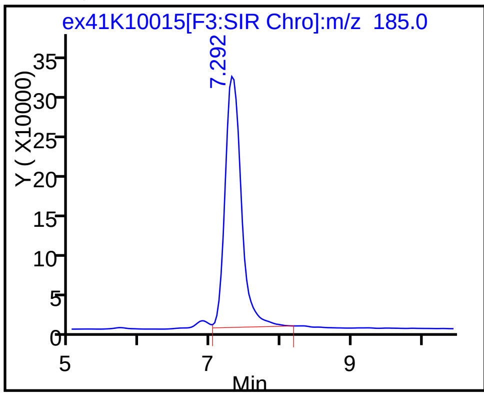
16 2-Amino-4,6-dinitrotoluene



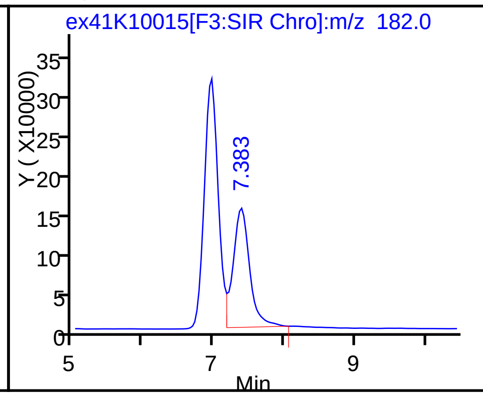
17 2,6-Dinitrotoluene



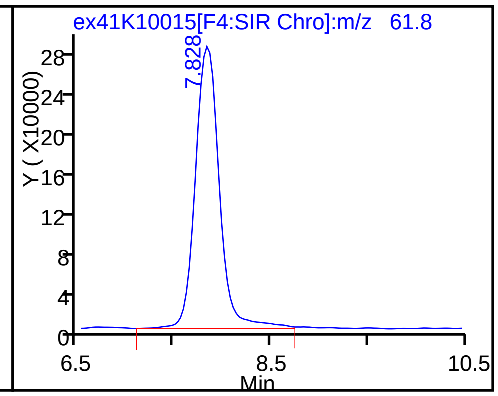
* 18 2,4-dinitrotoluene-d3



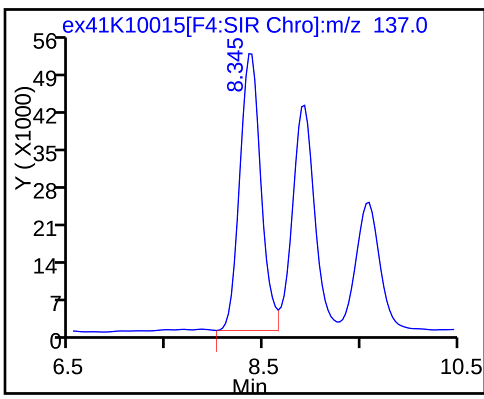
19 2,4-Dinitrotoluene



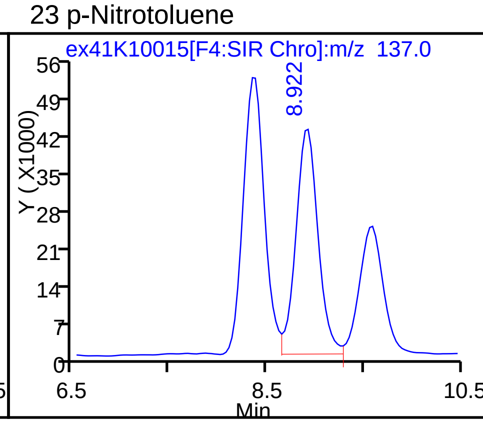
20 PETN



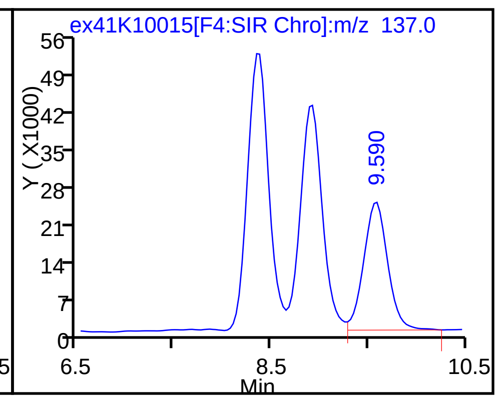
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Client Sample ID: TP23 SB132 MS   Lab Sample ID: 280-22438-9 MS

Matrix: Solid   Lab File ID: ex41K10117.d

Analysis Method: 8321B   Date Collected: 11/02/2011 12:55

Extraction Method: 8330B   Date Extracted: 11/10/2011 15:50

Sample wt/vol: 10.18(g)   Date Analyzed: 11/14/2011 13:05

Con. Extract Vol.: 40(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 96232   Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.332		0.098	0.025	0.012
99-65-0	1,3-Dinitrobenzene	0.374		0.098	0.012	0.0070
118-96-7	2,4,6-Trinitrotoluene	0.366		0.098	0.012	0.0049
121-14-2	2,4-Dinitrotoluene	0.357		0.098	0.012	0.0080
606-20-2	2,6-Dinitrotoluene	0.345		0.098	0.025	0.020
35572-78-2	2-Amino-4,6-dinitrotoluene	0.325		0.098	0.025	0.012
88-72-2	2-Nitrotoluene	0.353		0.098	0.012	0.0056
99-08-1	3-Nitrotoluene	0.361		0.098	0.025	0.013
19406-51-0	4-Amino-2,6-dinitrotoluene	0.341		0.098	0.012	0.0050
99-99-0	4-Nitrotoluene	0.348		0.098	0.025	0.011
2691-41-0	HMX	0.344		0.098	0.012	0.0057
98-95-3	Nitrobenzene	0.396		0.098	0.012	0.011
55-63-0	Nitroglycerin	0.350		0.098	0.012	0.010
78-11-5	PETN	0.347		0.098	0.012	0.0051
121-82-4	RDX	0.374		0.098	0.012	0.0042
479-45-8	Tetryl	0.435		0.098	0.012	0.0075

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	97		68-140

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10117.d
Lims ID: 280-22438-A-9-G MS Client ID:
Inject. Date: 14-Nov-2011 13:05:44 Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 280-22438-A-9-G MS 280-0002749-070
Misc. Info.: ex41K10 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 54
Lims Batch ID: 96232 Lims Sample ID: 70
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\8321exp4-25.m
Last Update: 15-Nov-2011 07:04:50 Calib Date: 10-Nov-2011 11:34:20
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	527759	87.6			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		726655	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	934233	95.3			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2563250	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	531981	84.5			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	862179	110.7			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1569860	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	4.994	0.041	1.016	631537	95.2			
9 Nitroglycerin										
2	61.8	5.035	4.994	0.041	1.016	3413451	89.1			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.371	0.034	1.091	2755358	93.2			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	657482	95.9			
12 Nitrobenzene										
2	123.0	5.607	5.573	0.034	1.132	552585	100.7			
13 3,4-Dinitrotoluene										
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.055	0.033	0.845	2277696	86.7			
15 2,3-Dinitrotoluene										
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.654	0.031	0.928	3107426	82.6			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.806	0.031	0.949	4431028	87.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.140	0.061		4920493	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.231	0.031	1.008	2300470	90.8			
20 PETN										
4	61.8	7.707	7.677	0.030	1.000	3982942	88.3			
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0	8.223	8.193	0.030	1.000	938619	89.8			
23 p-Nitrotoluene										
4	137.0	8.770	8.739	0.031	1.000	803528	88.6			
24 m-Nitrotoluene										
4	137.0	9.438	9.377	0.061	1.000	524378	91.8			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

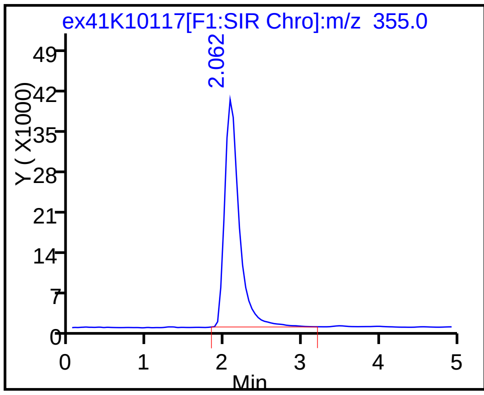
QC Flag Legend

Processing Flags
1 - Missing Peaks

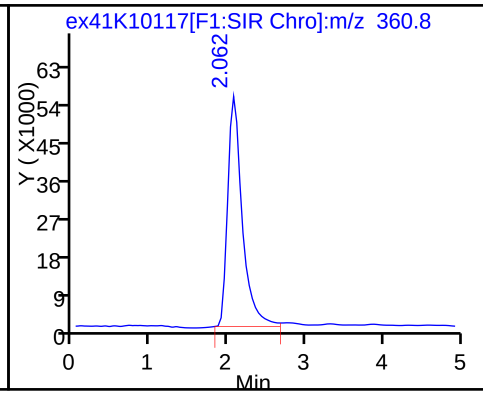
Report Date: 15-Nov-2011 07:04:53 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10117.d		
Injection Date:	14-Nov-2011 13:05:44	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	70
Operator ID:		Injection Vol:	40.00 ul

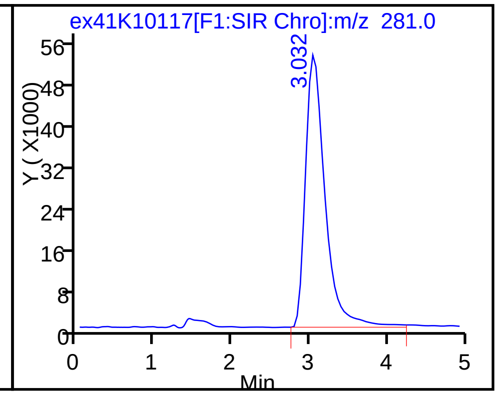
2 HMX



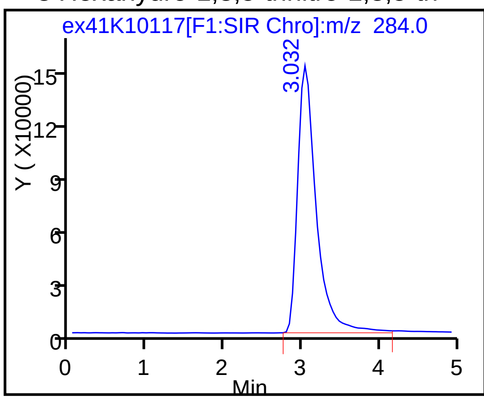
* 1 HMX-13C4



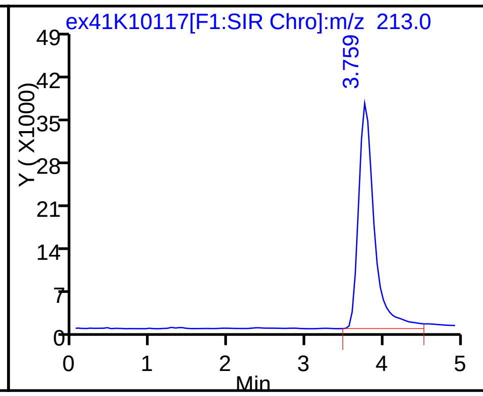
4 RDX



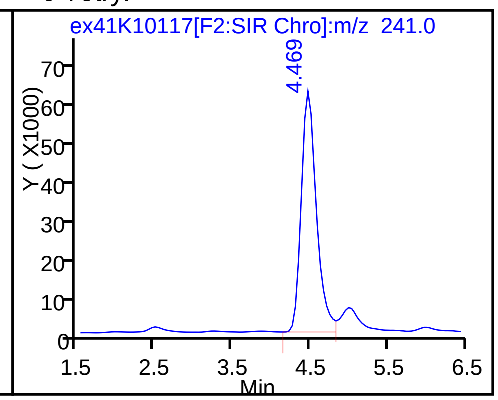
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



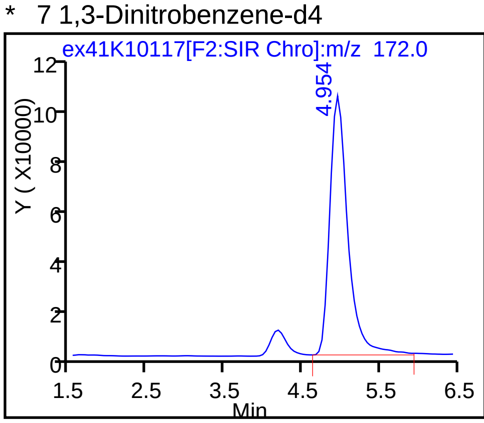
5 1,3,5-Trinitrobenzene



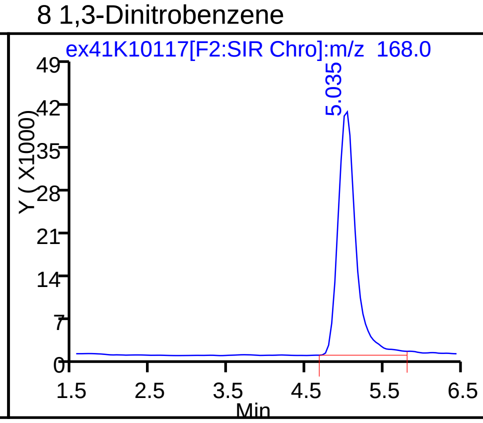
6 Tetryl



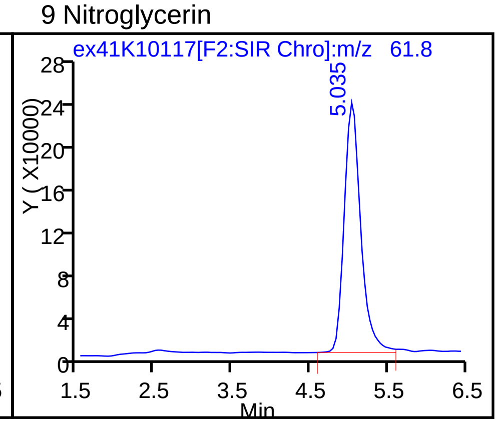
* 7 1,3-Dinitrobenzene-d4



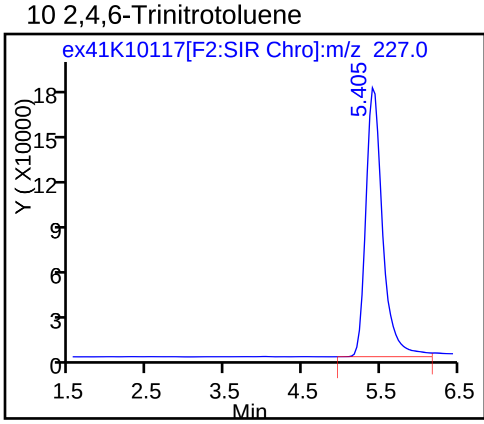
8 1,3-Dinitrobenzene



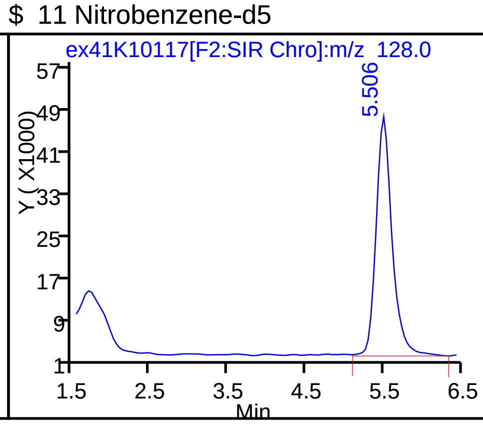
9 Nitroglycerin



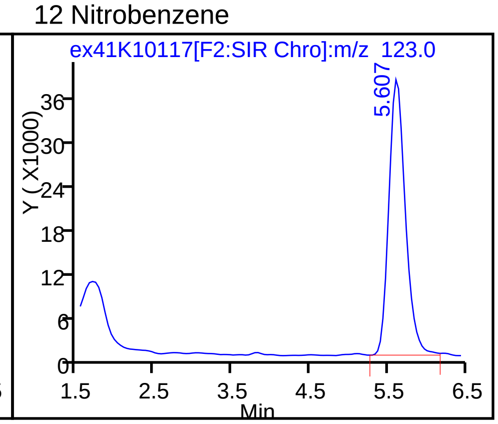
10 2,4,6-Trinitrotoluene



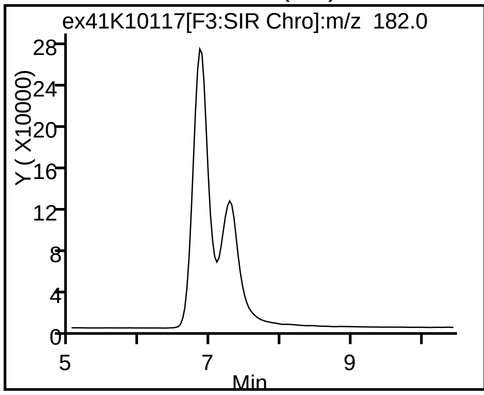
$ 11 Nitrobenzene-d5



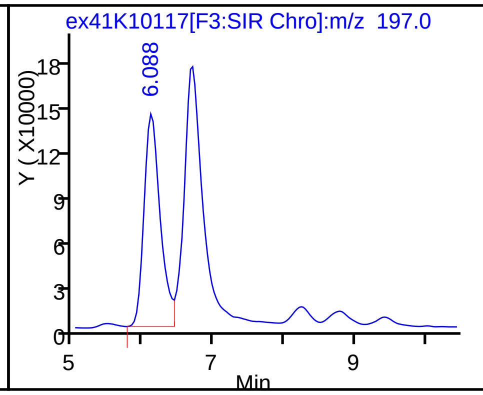
12 Nitrobenzene



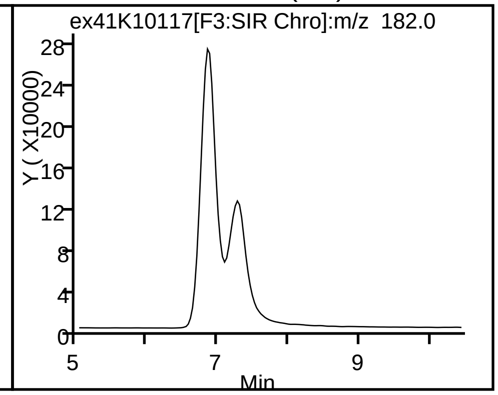
13 3,4-Dinitrotoluene (ND)



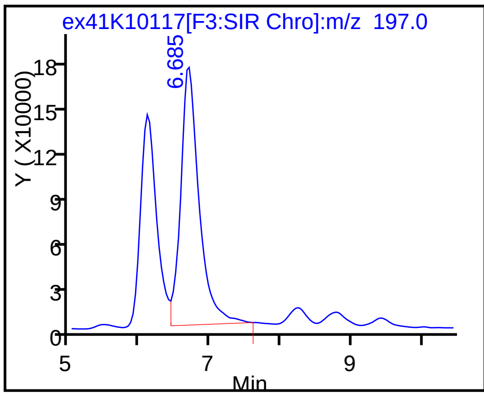
14 4-Amino-2,6-dinitrotoluene



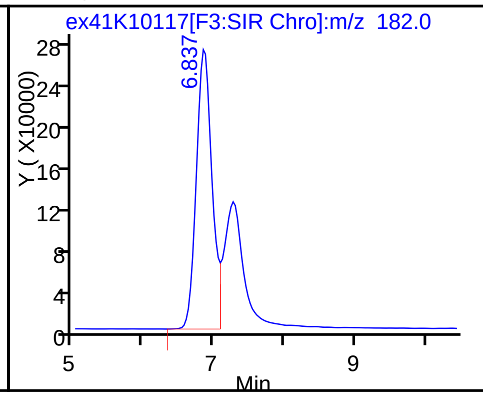
15 2,3-Dinitrotoluene (ND)



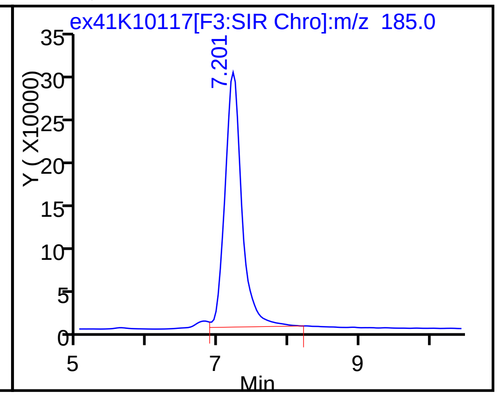
16 2-Amino-4,6-dinitrotoluene



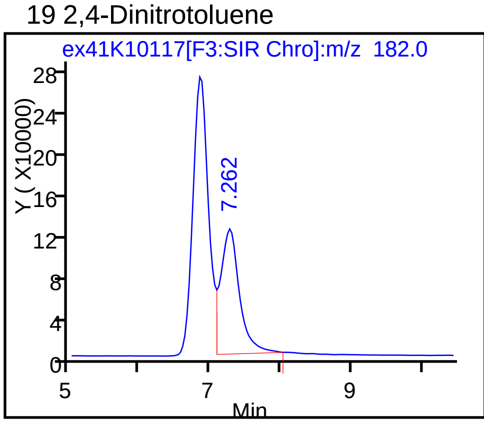
17 2,6-Dinitrotoluene



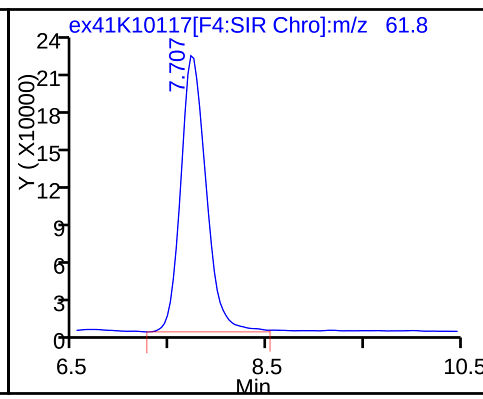
* 18 2,4-dinitrotoluene-d3



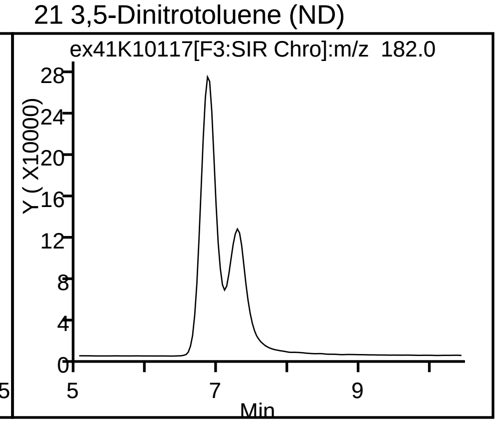
19 2,4-Dinitrotoluene



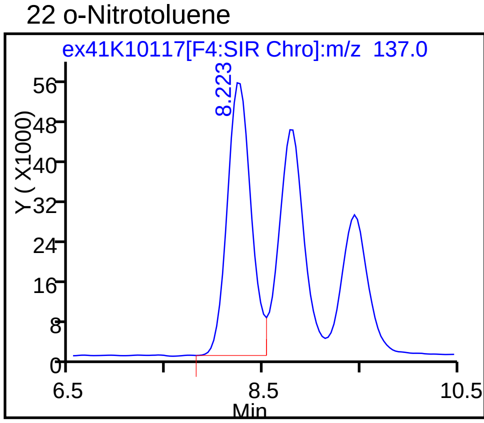
20 PETN



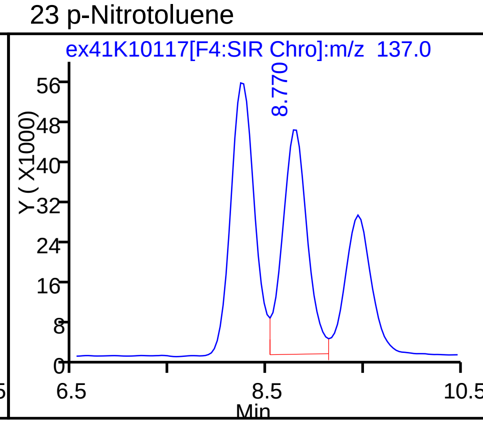
21 3,5-Dinitrotoluene (ND)



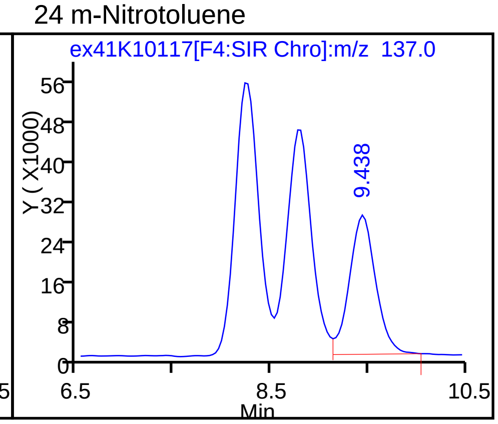
22 o-Nitrotoluene



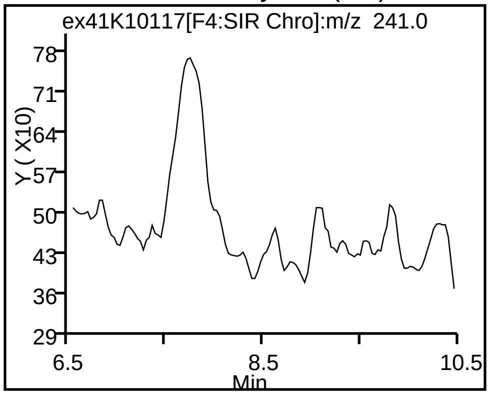
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Client Sample ID: TP23 SB132 MSD Lab Sample ID: 280-22438-9 MSD

Matrix: Solid Lab File ID: ex41K10118.d

Analysis Method: 8321B Date Collected: 11/02/2011 12:55

Extraction Method: 8330B Date Extracted: 11/10/2011 15:50

Sample wt/vol: 10.43(g) Date Analyzed: 11/14/2011 13:17

Con. Extract Vol.: 40(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 96232 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.328		0.096	0.024	0.012
99-65-0	1,3-Dinitrobenzene	0.369		0.096	0.012	0.0068
118-96-7	2,4,6-Trinitrotoluene	0.361		0.096	0.012	0.0048
121-14-2	2,4-Dinitrotoluene	0.363	M	0.096	0.012	0.0079
606-20-2	2,6-Dinitrotoluene	0.351		0.096	0.024	0.019
35572-78-2	2-Amino-4,6-dinitrotoluene	0.311		0.096	0.024	0.012
88-72-2	2-Nitrotoluene	0.366		0.096	0.012	0.0055
99-08-1	3-Nitrotoluene	0.365		0.096	0.024	0.012
19406-51-0	4-Amino-2,6-dinitrotoluene	0.349		0.096	0.012	0.0049
99-99-0	4-Nitrotoluene	0.347		0.096	0.024	0.011
2691-41-0	HMX	0.345		0.096	0.012	0.0056
98-95-3	Nitrobenzene	0.377		0.096	0.012	0.010
55-63-0	Nitroglycerin	0.330		0.096	0.012	0.010
78-11-5	PETN	0.354		0.096	0.012	0.0049
121-82-4	RDX	0.347		0.096	0.012	0.0041
479-45-8	Tetryl	0.418		0.096	0.012	0.0073

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	98		68-140

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10118.d		
Lims ID:	280-22438-A-9-H MSD	Client ID:	
Inject. Date:	14-Nov-2011 13:17:48	Dil. Factor:	1.0000
Sample Type:	MSD		
Sample ID:	280-22438-A-9-H MSD 280-0002749-071		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	55
Lims Batch ID:	96232	Lims Sample ID:	71
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\8321exp4-25.m		
Last Update:	15-Nov-2011 07:04:50	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 14-Nov-2011 15:08:13

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	563299	90.0			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		754622	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	908253	90.5			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2621293	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	564897	85.5			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	891570	109.1			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1647298	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	669827	96.2			
9 Nitroglycerin										
2	61.8	5.035	4.994	0.041	1.016	3459140	86.0			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.371	0.034	1.091	2919577	94.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.472	0.034	1.111	696896	96.9			
12 Nitrobenzene										
2	123.0	5.607	5.573	0.034	1.132	566476	98.4			
13 3,4-Dinitrotoluene										
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.055	0.033	0.845	2264300	91.0			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.654	0.031	0.928	2885193	81.1			
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.806	0.031	0.949	4368848	91.6			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.140	0.061		4658787	250.0			
19 2,4-Dinitrotoluene										M
3	182.0	7.262	7.231	0.031	1.008	2271385	94.7			M
20 PETN										
4	61.8	7.707	7.677	0.030	1.000	3939893	92.4			
21 3,5-Dinitrotoluene										
3	182.0		7.808							
22 o-Nitrotoluene										
4	137.0	8.223	8.193	0.030	1.000	946226	95.5			
23 p-Nitrotoluene										
4	137.0	8.800	8.739	0.061	1.000	777232	90.4			
24 m-Nitrotoluene										
4	137.0	9.438	9.377	0.061	1.000	515460	95.3			
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

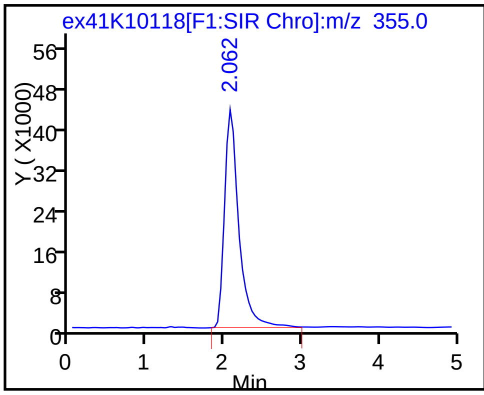
Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

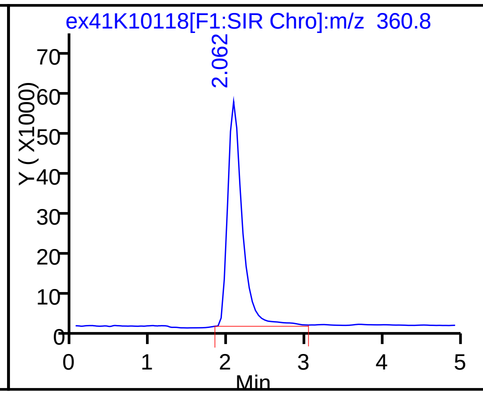
Report Date: 15-Nov-2011 07:04:54 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10118.d

Injection Date:	14-Nov-2011 13:17:48	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	71
Operator ID:		Injection Vol:	40.00 ul

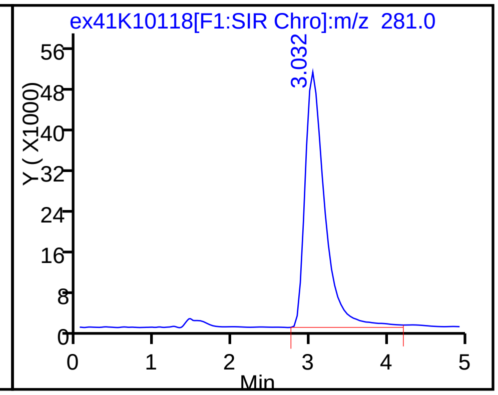
2 HMX



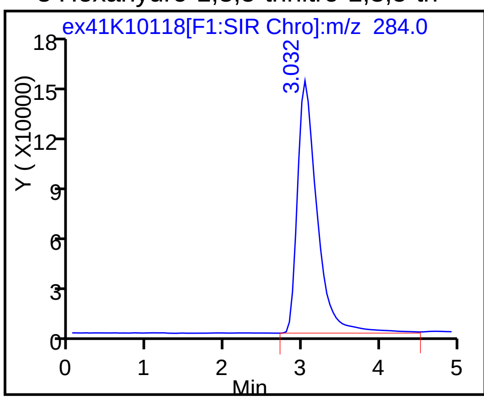
* 1 HMX-13C4



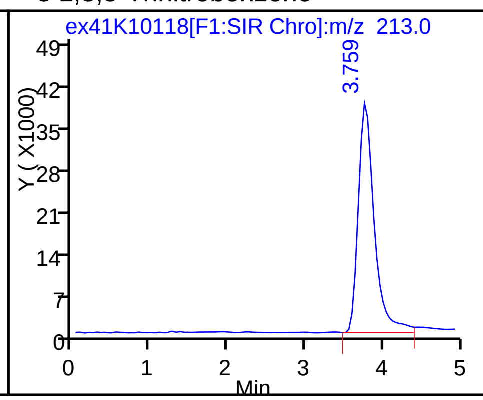
4 RDX



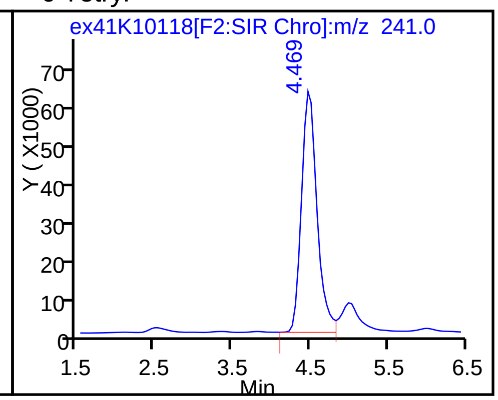
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



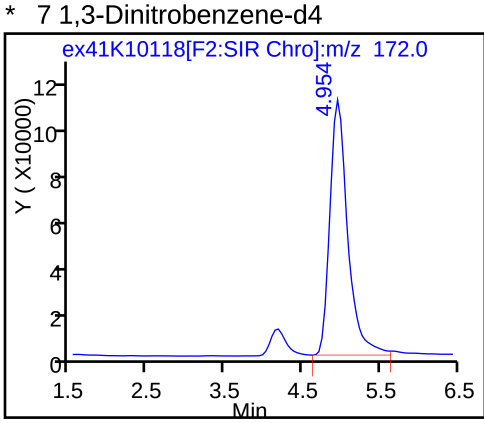
5 1,3,5-Trinitrobenzene



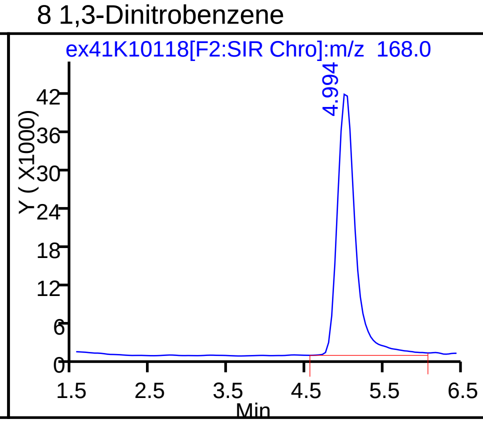
6 Tetryl



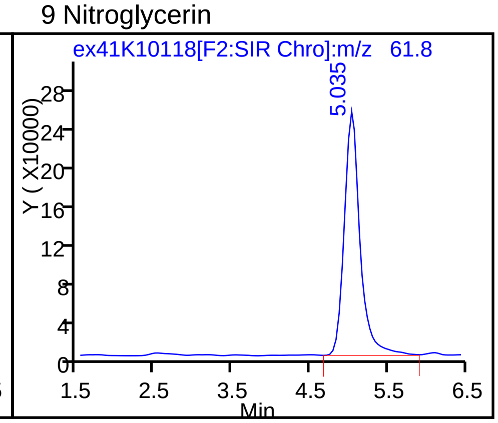
* 7 1,3-Dinitrobenzene-d4



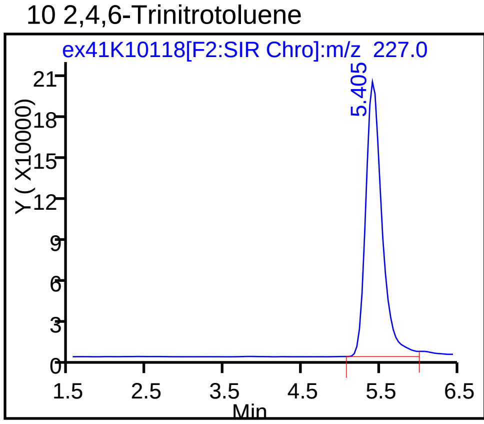
8 1,3-Dinitrobenzene



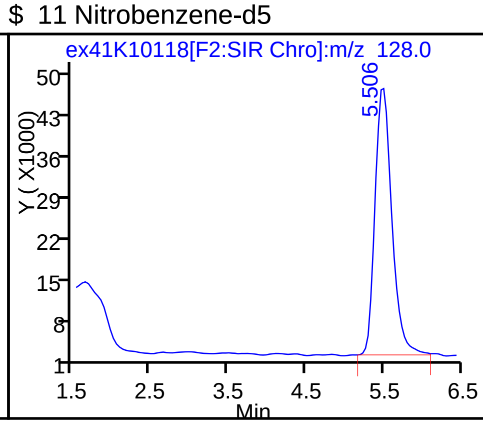
9 Nitroglycerin



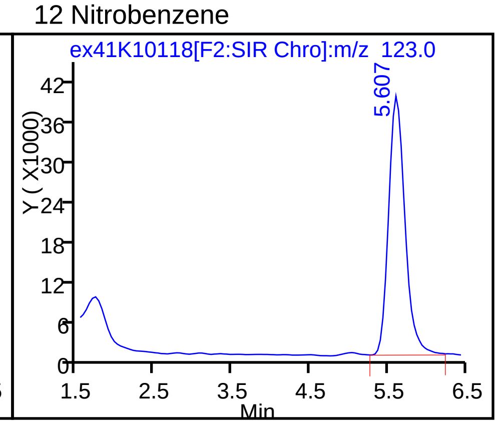
10 2,4,6-Trinitrotoluene



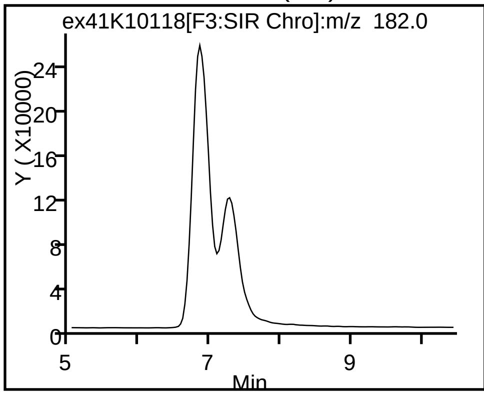
$ 11 Nitrobenzene-d5



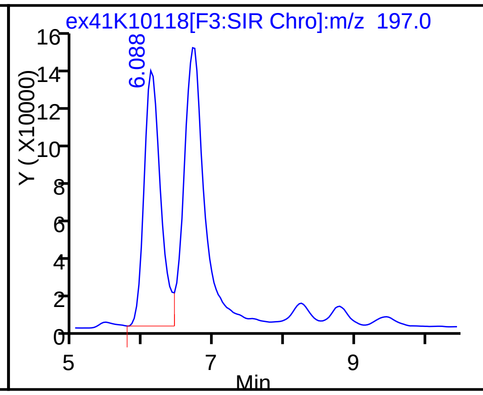
12 Nitrobenzene



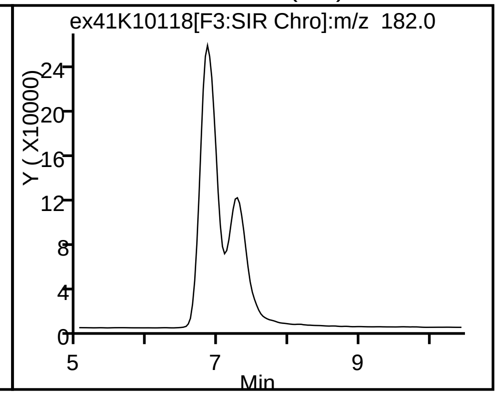
13 3,4-Dinitrotoluene (ND)



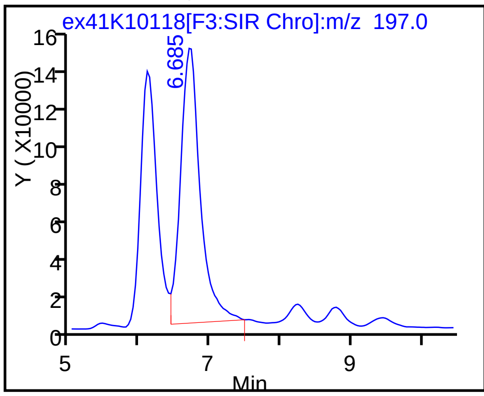
14 4-Amino-2,6-dinitrotoluene



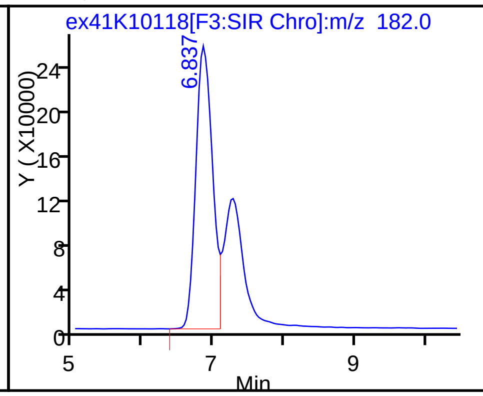
15 2,3-Dinitrotoluene (ND)



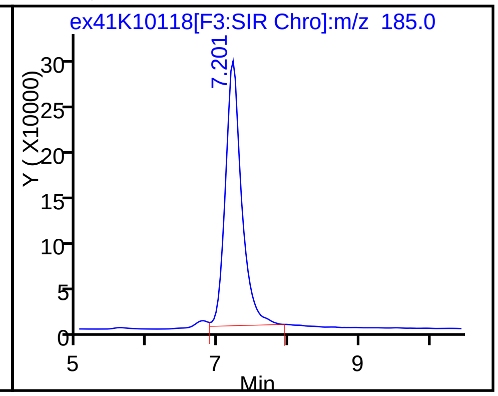
16 2-Amino-4,6-dinitrotoluene



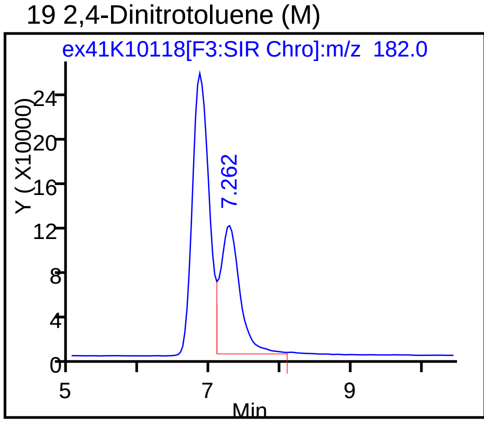
17 2,6-Dinitrotoluene



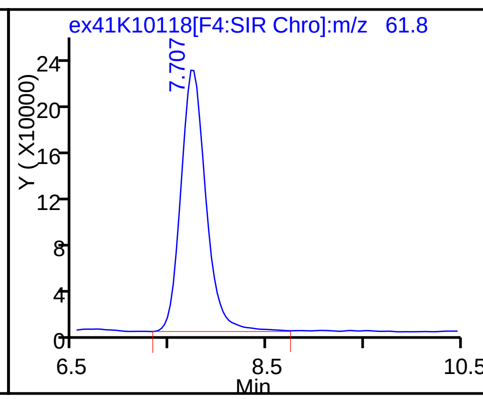
* 18 2,4-dinitrotoluene-d3



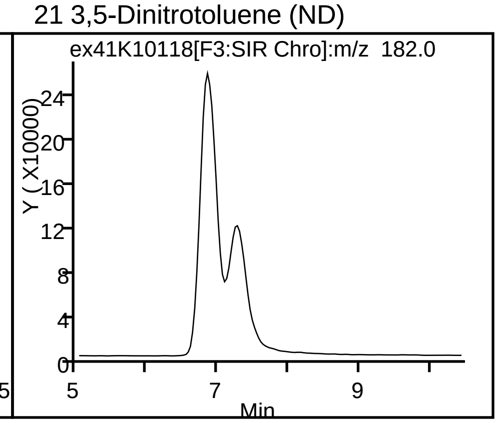
19 2,4-Dinitrotoluene (M)



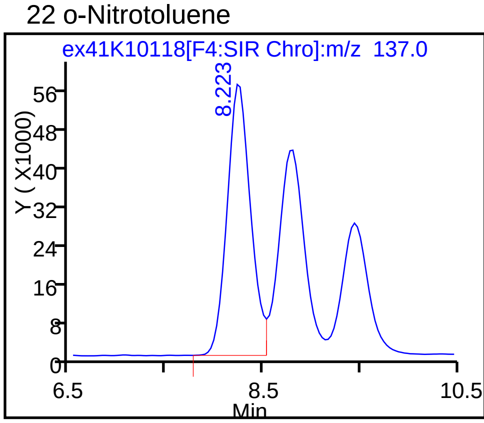
20 PETN



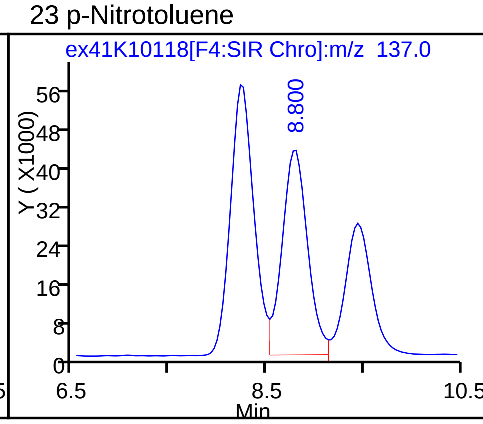
21 3,5-Dinitrotoluene (ND)



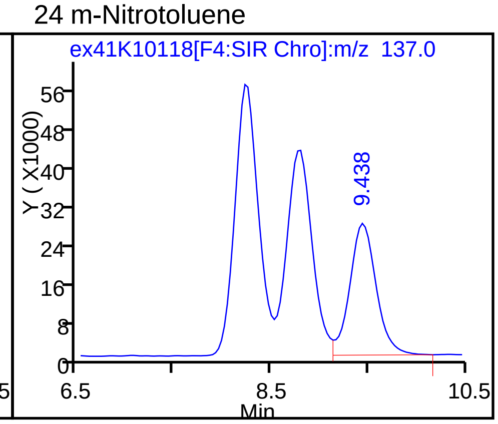
22 o-Nitrotoluene



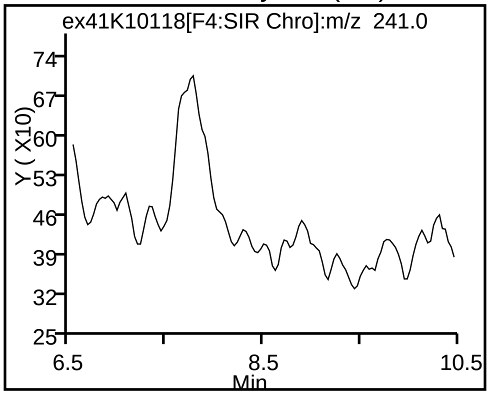
23 p-Nitrotoluene



24 m-Nitrotoluene



25 2,4,6-Trinitro-3-xylene (ND)



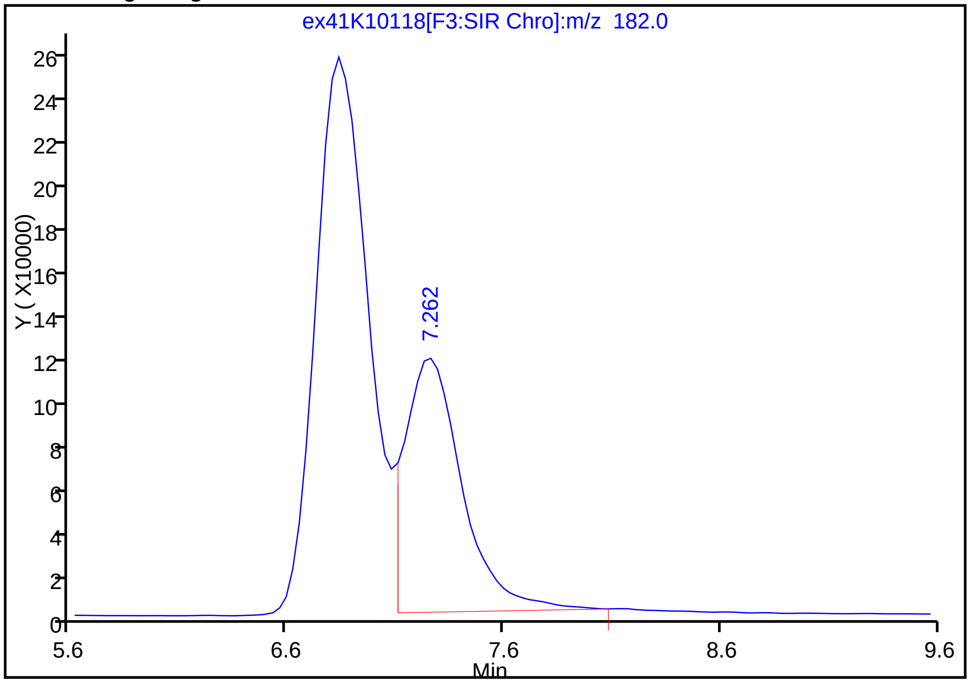
Manual Integration/User Assign Peak Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111111-2749.b\ex41K10118.d		
Injection Date:	14-Nov-2011 13:17:48	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	96232	Lims Sample ID:	71
Operator ID:		Injection Vol:	40.00 ul

19 2,4-Dinitrotoluene, Signal: 1, m/z: 182.0 Type: quant, RT: 7.23, Det: F3:SIR

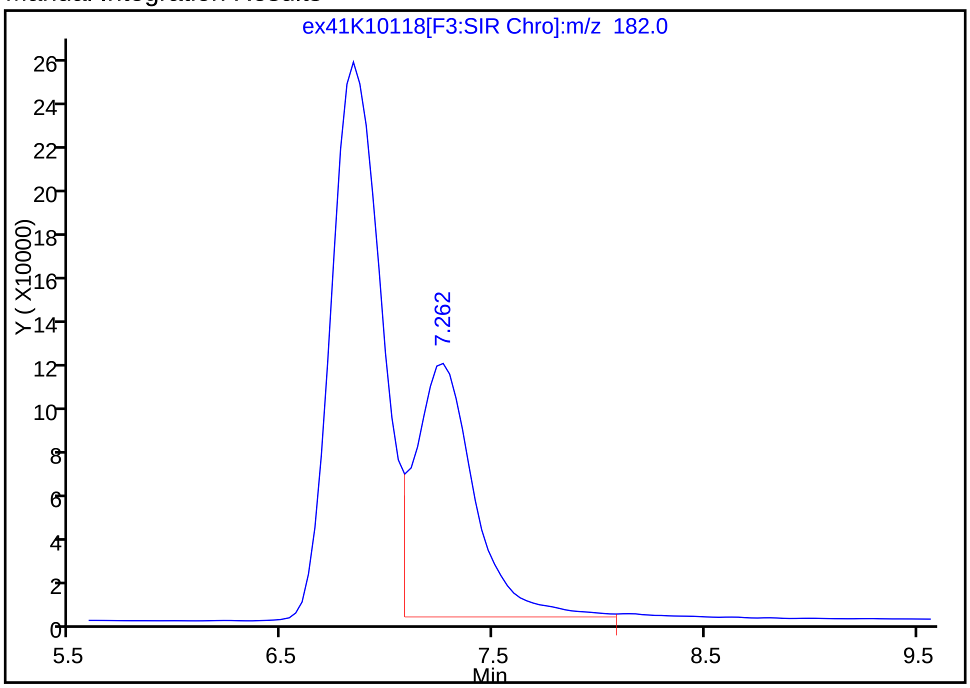
Processing Integration Results

RT: 7.26
Response: 2126621
Amount: 88.663212



Manual Integration Results

RT: 7.26
Response: 2271385
Amount: 94.650229



Reviewer: meyera, 14-Nov-2011 15:08:13
Audit Action: Manually Integrated
Audit Reason: Baseline

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Instrument ID: LC_LCMS4 Start Date: 11/10/2011 10:21

Analysis Batch Number: 95626 End Date: 11/10/2011 12:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 280-95626/1 IC		11/10/2011 10:21	1	ex41K10003.d	IonPac 2(mm)
STD010 280-95626/2 IC		11/10/2011 10:33	1	ex41K10004.d	IonPac 2(mm)
STD025 280-95626/3 IC		11/10/2011 10:45	1	ex41K10005.d	IonPac 2(mm)
STD050 280-95626/4 IC		11/10/2011 10:57	1	ex41K10006.d	IonPac 2(mm)
STD100 280-95626/5 ICISAV		11/10/2011 11:10	1	ex41K10007.d	IonPac 2(mm)
STD200 280-95626/6 IC		11/10/2011 11:22	1	ex41K10008.d	IonPac 2(mm)
STD300 280-95626/7 IC		11/10/2011 11:34	1	ex41K10009.d	IonPac 2(mm)
ICB 280-95626/8		11/10/2011 11:46	1	ex41K10010.d	IonPac 2(mm)
ZZZZZ		11/10/2011 11:58	1		IonPac 2(mm)
ICV 280-95626/10		11/10/2011 12:10	1	ex41K10012.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Instrument ID: LC_LCMS4   Start Date: 11/10/2011 12:24

Analysis Batch Number: 95629   End Date: 11/10/2011 15:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
MB 280-95077/1-A		11/10/2011 12:24	1	ex41K10013.d	IonPac 2(mm)
LCS 280-95077/2-A		11/10/2011 12:37	1	ex41K10014.d	IonPac 2(mm)
LCSD 280-95077/3-A		11/10/2011 12:49	1	ex41K10015.d	IonPac 2(mm)
ZZZZZ		11/10/2011 13:01	5		IonPac 2(mm)
280-22438-2 DL	MG37 GW010 DL	11/10/2011 13:13	5	ex41K10017.d	IonPac 2(mm)
ZZZZZ		11/10/2011 13:25	5		IonPac 2(mm)
ZZZZZ		11/10/2011 13:37	5		IonPac 2(mm)
280-22438-5 DL	TP02 GW011 DL	11/10/2011 13:49	5	ex41K10020.d	IonPac 2(mm)
CCV 280-95629/19		11/10/2011 14:01	1	ex41K10021.d	IonPac 2(mm)
280-22438-6 DL	TP04 GW013 DL	11/10/2011 14:14	5	ex41K10022.d	IonPac 2(mm)
280-22438-7 DL	TP04 GW014 DL	11/10/2011 14:26	5	ex41K10023.d	IonPac 2(mm)
ZZZZZ		11/10/2011 14:38	5		IonPac 2(mm)
ZZZZZ		11/10/2011 14:51	10		IonPac 2(mm)
280-22438-12 DL	CP29 GW002 DL	11/10/2011 15:03	5	ex41K10026.d	IonPac 2(mm)
280-22438-13 DL	CP31 GW004 DL	11/10/2011 15:15	10	ex41K10027.d	IonPac 2(mm)
280-22438-14 DL	CP31 GW005 DL	11/10/2011 15:27	10	ex41K10028.d	IonPac 2(mm)
280-22438-19 DL	CP47 GW015 DL	11/10/2011 15:39	5	ex41K10029.d	IonPac 2(mm)
CCV 280-95629/28		11/10/2011 15:51	1	ex41K10030.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Instrument ID: LC_LCMS4   Start Date: 11/10/2011 15:51

Analysis Batch Number: 95630   End Date: 11/10/2011 18:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-95630/28		11/10/2011 15:51	1	ex41K10030.d	IonPac 2(mm)
280-22438-1	MG37 GW006	11/10/2011 16:03	1	ex41K10031.d	IonPac 2(mm)
280-22438-2	MG37 GW010	11/10/2011 16:16	1	ex41K10032.d	IonPac 2(mm)
280-22438-3	MG38 GW007	11/10/2011 16:28	1	ex41K10033.d	IonPac 2(mm)
280-22438-4	MG40 GW009	11/10/2011 16:40	1	ex41K10034.d	IonPac 2(mm)
280-22438-5	TP02 GW011	11/10/2011 16:52	1	ex41K10035.d	IonPac 2(mm)
280-22438-6	TP04 GW013	11/10/2011 17:04	1	ex41K10036.d	IonPac 2(mm)
CCV 280-95630/35		11/10/2011 17:16	1	ex41K10037.d	IonPac 2(mm)
280-22438-7	TP04 GW014	11/10/2011 17:29	1	ex41K10038.d	IonPac 2(mm)
280-22438-8	TP03 GW012	11/10/2011 17:41	1	ex41K10039.d	IonPac 2(mm)
ZZZZZ		11/10/2011 17:53	1		IonPac 2(mm)
280-22438-12	CP29 GW002	11/10/2011 18:05	1	ex41K10041.d	IonPac 2(mm)
280-22438-13	CP31 GW004	11/10/2011 18:17	1	ex41K10042.d	IonPac 2(mm)
280-22438-14	CP31 GW005	11/10/2011 18:29	1	ex41K10043.d	IonPac 2(mm)
280-22438-19	CP47 GW015	11/10/2011 18:41	1	ex41K10044.d	IonPac 2(mm)
CCV 280-95630/43		11/10/2011 18:54	1	ex41K10045.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Instrument ID: LC_LCMS4 Start Date: 11/14/2011 12:41

Analysis Batch Number: 96232 End Date: 11/14/2011 18:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-96232/68		11/14/2011 12:41	1	ex41K10115.d	IonPac 2(mm)
280-22438-9	TP23 SB132	11/14/2011 12:53	1	ex41K10116.d	IonPac 2(mm)
280-22438-9 MS	TP23 SB132 MS	11/14/2011 13:05	1	ex41K10117.d	IonPac 2(mm)
280-22438-9 MSD	TP23 SB132 MSD	11/14/2011 13:17	1	ex41K10118.d	IonPac 2(mm)
280-22438-10	TP24 SB133	11/14/2011 13:29	1	ex41K10119.d	IonPac 2(mm)
280-22438-15	CP44 SD014	11/14/2011 13:42	1	ex41K10120.d	IonPac 2(mm)
280-22438-16	CP45 SD015	11/14/2011 13:54	1	ex41K10121.d	IonPac 2(mm)
280-22438-17	CP45 SD016	11/14/2011 14:06	1	ex41K10122.d	IonPac 2(mm)
280-22438-18	CP46 SD017	11/14/2011 14:18	1	ex41K10123.d	IonPac 2(mm)
CCV 280-96232/77		11/14/2011 14:30	1	ex41K10124.d	IonPac 2(mm)
MB 280-95682/1-A		11/14/2011 14:42	1	ex41K10125.d	IonPac 2(mm)
LCS 280-95682/2-A		11/14/2011 14:55	1	ex41K10126.d	IonPac 2(mm)
ZZZZZ		11/14/2011 15:07	1		IonPac 2(mm)
ZZZZZ		11/14/2011 15:19	1		IonPac 2(mm)
ZZZZZ		11/14/2011 15:31	1		IonPac 2(mm)
ZZZZZ		11/14/2011 15:43	1		IonPac 2(mm)
ZZZZZ		11/14/2011 15:55	1		IonPac 2(mm)
ZZZZZ		11/14/2011 16:07	1		IonPac 2(mm)
CCV 280-96232/86		11/14/2011 16:20	1	ex41K10133.d	IonPac 2(mm)
ZZZZZ		11/14/2011 16:32	1		IonPac 2(mm)
ZZZZZ		11/14/2011 16:45	1		IonPac 2(mm)
ZZZZZ		11/14/2011 16:57	1		IonPac 2(mm)
ZZZZZ		11/14/2011 17:09	1		IonPac 2(mm)
ZZZZZ		11/14/2011 17:21	1		IonPac 2(mm)
ZZZZZ		11/14/2011 17:33	1		IonPac 2(mm)
ZZZZZ		11/14/2011 17:45	1		IonPac 2(mm)
ZZZZZ		11/14/2011 17:57	1		IonPac 2(mm)
CCV 280-96232/95		11/14/2011 18:09	1		IonPac 2(mm)

8321B

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Batch Number: 95077   Batch Start Date: 11/07/11 11:42   Batch Analyst: Smiley, Kristy

Batch Method: 3535   Batch End Date: 11/07/11 15:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	Initial pH	AdjustedpH
MB 280-95077/1		3535, 8321B				1000 mL	5 mL	7 SU	4 SU
LCS 280-95077/2		3535, 8321B				1000 mL	5 mL	7 SU	4 SU
LCSD 280-95077/3		3535, 8321B				1000 mL	5 mL	7 SU	4 SU
280-22438-B-1	MG37 GW006	3535, 8321B	T	1492.56 g	494.08 g	998.5 mL	5 mL	7 SU	4 SU
280-22438-A-2	MG37 GW010	3535, 8321B	T	1542.31 g	497.28 g	1045 mL	5 mL	7 SU	4 SU
280-22438-A-3	MG38 GW007	3535, 8321B	T	1522.34 g	497.33 g	1025 mL	5 mL	7 SU	4 SU
280-22438-A-4	MG40 GW009	3535, 8321B	T	1461.63 g	497.45 g	964.2 mL	5 mL	7 SU	4 SU
280-22438-A-5	TP02 GW011	3535, 8321B	T	1517.43 g	497.36 g	1020.1 mL	5 mL	7 SU	4 SU
280-22438-A-6	TP04 GW013	3535, 8321B	T	1511.73 g	497.31 g	1014.4 mL	5 mL	7 SU	4 SU
280-22438-B-7	TP04 GW014	3535, 8321B	T	1500.20 g	496.90 g	1003.3 mL	5 mL	7 SU	4 SU
280-22438-A-8	TP03 GW012	3535, 8321B	T	1498.61 g	497.52 g	1001.1 mL	5 mL	7 SU	4 SU
280-22438-B-12	CP29 GW002	3535, 8321B	T	1513.96 g	497.36 g	1016.6 mL	5 mL	7 SU	4 SU
280-22438-B-13	CP31 GW004	3535, 8321B	T	1321.19 g	497.41 g	823.8 mL	5 mL	7 SU	4 SU
280-22438-A-14	CP31 GW005	3535, 8321B	T	1373.48 g	497.83 g	875.7 mL	5 mL	7 SU	4 SU
280-22438-B-19	CP47 GW015	3535, 8321B	T	1536.61 g	497.23 g	1039.4 mL	5 mL	7 SU	4 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	8321ExplosLCS 00011	8321ExplosSur 00017				
MB 280-95077/1		3535, 8321B			0.125 mL				
LCS 280-95077/2		3535, 8321B		0.125 mL	0.125 mL				
LCSD 280-95077/3		3535, 8321B		0.125 mL	0.125 mL				
280-22438-B-1	MG37 GW006	3535, 8321B	T		0.125 mL				
280-22438-A-2	MG37 GW010	3535, 8321B	T		0.125 mL				
280-22438-A-3	MG38 GW007	3535, 8321B	T		0.125 mL				
280-22438-A-4	MG40 GW009	3535, 8321B	T		0.125 mL				
280-22438-A-5	TP02 GW011	3535, 8321B	T		0.125 mL				
280-22438-A-6	TP04 GW013	3535, 8321B	T		0.125 mL				
280-22438-B-7	TP04 GW014	3535, 8321B	T		0.125 mL				
280-22438-A-8	TP03 GW012	3535, 8321B	T		0.125 mL				
280-22438-B-12	CP29 GW002	3535, 8321B	T		0.125 mL				
280-22438-B-13	CP31 GW004	3535, 8321B	T		0.125 mL				
280-22438-A-14	CP31 GW005	3535, 8321B	T		0.125 mL				

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Batch Number: 95077   Batch Start Date: 11/07/11 11:42   Batch Analyst: Smiley, Kristy

Batch Method: 3535   Batch End Date: 11/07/11 15:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	8321ExplosLCS 00011	8321ExplosSur 00017				
280-22438-B-19	CP47 GW015	3535, 8321B	T		0.125 mL				

Batch Notes	
Acid Lot	2.L.1.10
Acid Name	6M HCl
Balance ID	24750836
First End time	11/7/11 @ 1543
H2O Lot used	K37E00
Pipette ID	s/s: KS Pip: I, Koko
Reagent ID	0.1% Acetic Acid
Reagent Lot Number	0.1% Acetic_00001
Solvent Lot #	K38813
Solvent Name	ACN
SOP Number	DV-OP-0017
SPE Cartridge Type	Strata SDB-L (8B-S014-HCH)
Solid Phase Extraction Disk Lot Number	S214-39/ -41
First Start time	11/7/11 @ 1142
Witness	Reviewer: Frey, A

Basis	Basis Description
T	Total/NA

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Batch Number: 95682   Batch Start Date: 11/10/11 15:50   Batch Analyst: Frey, Alan C

Batch Method: 8330B   Batch End Date: 11/11/11 10:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8321ExplosLCS 00012	8321ExplosSur 00019		
MB 280-95682/1		8330B, 8321B		10.47 g	40 mL		1 mL		
LCS 280-95682/2		8330B, 8321B		10.36 g	40 mL	1 mL	1 mL		
280-22438-A-9-A	TP23 SB132	8330B, 8321B	T	10.40 g	40 mL		1 mL		
280-22438-A-9-A MS	TP23 SB132	8330B, 8321B	T	10.18 g	40 mL	1 mL	1 mL		
280-22438-A-9-A MSD	TP23 SB132	8330B, 8321B	T	10.43 g	40 mL	1 mL	1 mL		
280-22438-B-10-A	TP24 SB133	8330B, 8321B	T	10.39 g	40 mL		1 mL		
280-22438-A-15-A	CP44 SD014	8330B, 8321B	T	10.32 g	40 mL		1 mL		
280-22438-B-16-A	CP45 SD015	8330B, 8321B	T	10.29 g	40 mL		1 mL		
280-22438-B-17-A	CP45 SD016	8330B, 8321B	T	10.26 g	40 mL		1 mL		
280-22438-A-18-A	CP46 SD017	8330B, 8321B	T	10.28 g	40 mL		1 mL		

Batch Notes	
Balance ID	24750836
Person's name who did the concentration	Filtered by:Frey A.
Filter Lot #	0133990
Filter Type	0.2um
Pipette ID	C
Pipette ID for Solvent	Exp-1
Prep Solvent Volume Used	20 mL
Person's name who witnessed reagent drop	Reviewer:Vu D.
Blank Sand Lot #	2AB0606
Solvent Lot #	0.1%AAinACN_00011
Solvent Name	A.ACN
Sonication Start Time	Shaker table start: 11.10.11@1555
Sonication Stop Time	shaker table stop: 11.11.11@0955
SOP Number	DV-OP-0018

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Batch Number: 95682   Batch Start Date: 11/10/11 15:50   Batch Analyst: Frey, Alan C

Batch Method: 8330B   Batch End Date: 11/11/11 10:50

Basis	Basis Description
T	Total/NA

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Denver   Job Number: 280-22438-1

SDG No.:

Project: Martha's Vineyard RI

Client Sample ID	Lab Sample ID
MG37 GW006	280-22438-1
MG37 GW010	280-22438-2
MG38 GW007	280-22438-3
MG40 GW009	280-22438-4
TP02 GW011	280-22438-5
TP04 GW013	280-22438-6
TP04 GW014	280-22438-7
TP03 GW012	280-22438-8
TP23 SB132	280-22438-9
TP24 SB133	280-22438-10
CP29 GW002	280-22438-12
CP31 GW004	280-22438-13
CP31 GW005	280-22438-14
CP44 SD014	280-22438-15
CP45 SD015	280-22438-16
CP45 SD016	280-22438-17
CP46 SD017	280-22438-18
CP47 GW015	280-22438-19

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MG37 GW006

Lab Sample ID: 280-22438-1

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Water

Date Sampled: 11/02/2011 08:50

Reporting Basis: WET

Date Received: 11/04/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.20	6.0	0.20	0.070	ug/L	U	Q	1	6020A
Copper	1.5	2.0	1.5	0.56	ug/L	J		1	6020A
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020A
Nickel	12	3.0	0.90	0.30	ug/L			1	6020A
Zinc	7.4	20	6.0	2.0	ug/L	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MG37 GW010

Lab Sample ID: 280-22438-2

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Water

Date Sampled: 11/02/2011 08:50

Reporting Basis: WET

Date Received: 11/04/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.20	6.0	0.20	0.070	ug/L	U	Q	1	6020A
Copper	0.99	2.0	1.5	0.56	ug/L	J		1	6020A
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020A
Nickel	9.0	3.0	0.90	0.30	ug/L			1	6020A
Zinc	4.3	20	6.0	2.0	ug/L	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MG38 GW007

Lab Sample ID: 280-22438-3

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Water

Date Sampled: 11/02/2011 10:08

Reporting Basis: WET

Date Received: 11/04/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.20	6.0	0.20	0.070	ug/L	U	Q	1	6020A
Copper	1.5	2.0	1.5	0.56	ug/L	U		1	6020A
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020A
Nickel	7.4	3.0	0.90	0.30	ug/L			1	6020A
Zinc	5.8	20	6.0	2.0	ug/L	J		1	6020A

1A-IN

INORGANIC ANALYSIS DATA SHEET

METALS - DISSOLVED

Client Sample ID: MG40 GW009

Lab Sample ID: 280-22438-4

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Water

Date Sampled: 11/02/2011 10:49

Reporting Basis: WET

Date Received: 11/04/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.20	6.0	0.20	0.070	ug/L	U	Q	1	6020A
Copper	0.57	2.0	1.5	0.56	ug/L	J		1	6020A
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020A
Nickel	5.5	3.0	0.90	0.30	ug/L			1	6020A
Zinc	9.0	20	6.0	2.0	ug/L	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: TP02 GW011

Lab Sample ID: 280-22438-5

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Water

Date Sampled: 11/02/2011 13:17

Reporting Basis: WET

Date Received: 11/04/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.20	6.0	0.20	0.070	ug/L	U	Q	1	6020A
Copper	1.5	2.0	1.5	0.56	ug/L	U		1	6020A
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020A
Nickel	6.5	3.0	0.90	0.30	ug/L			1	6020A
Zinc	12	20	6.0	2.0	ug/L	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: TP04 GW013

Lab Sample ID: 280-22438-6

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Water

Date Sampled: 11/02/2011 14:55

Reporting Basis: WET

Date Received: 11/04/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.074	6.0	0.20	0.070	ug/L	J	Q	1	6020A
Copper	1.5	2.0	1.5	0.56	ug/L	U		1	6020A
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020A
Nickel	13	3.0	0.90	0.30	ug/L			1	6020A
Zinc	4.0	20	6.0	2.0	ug/L	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: TP04 GW014

Lab Sample ID: 280-22438-7

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Water

Date Sampled: 11/02/2011 14:55

Reporting Basis: WET

Date Received: 11/04/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.073	6.0	0.20	0.070	ug/L	J	Q	1	6020A
Copper	1.5	2.0	1.5	0.56	ug/L	U		1	6020A
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020A
Nickel	12	3.0	0.90	0.30	ug/L			1	6020A
Zinc	4.2	20	6.0	2.0	ug/L	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: TP03 GW012

Lab Sample ID: 280-22438-8

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Water

Date Sampled: 11/02/2011 15:33

Reporting Basis: WET

Date Received: 11/04/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.20	6.0	0.20	0.070	ug/L	U	Q	1	6020A
Copper	1.5	2.0	1.5	0.56	ug/L	U		1	6020A
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020A
Nickel	4.5	3.0	0.90	0.30	ug/L			1	6020A
Zinc	5.7	20	6.0	2.0	ug/L	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP23 SB132

Lab Sample ID: 280-22438-9

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Solid

Date Sampled: 11/02/2011 12:55

Reporting Basis: DRY

Date Received: 11/04/2011 09:30

% Solids: 83.2

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.068	0.20	0.041	0.014	mg/Kg	J	Q J	1	6020A
Copper	1.4	2.5	0.20	0.072	mg/Kg	J		1	6020A
Lead	15	0.10	0.051	0.019	mg/Kg			1	6020A
Nickel	3.7	0.36	0.076	0.026	mg/Kg			1	6020A
Zinc	21	2.5	0.92	0.32	mg/Kg		J	1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP24 SB133 | Lab Sample ID: 280-22438-10

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG ID.:

Matrix: Solid | Date Sampled: 11/02/2011 13:05

Reporting Basis: DRY | Date Received: 11/04/2011 09:30

% Solids: 97.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.038	0.18	0.035	0.012	mg/Kg	J	Q	1	6020A
Copper	0.86	2.2	0.18	0.062	mg/Kg	J		1	6020A
Lead	6.9	0.088	0.044	0.016	mg/Kg			1	6020A
Nickel	1.8	0.31	0.066	0.022	mg/Kg			1	6020A
Zinc	9.6	2.2	0.79	0.28	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: CP29 GW002

Lab Sample ID: 280-22438-12

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Water

Date Sampled: 11/01/2011 13:05

Reporting Basis: WET

Date Received: 11/04/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.20	6.0	0.20	0.070	ug/L	U	Q	1	6020A
Copper	1.5	2.0	1.5	0.56	ug/L	U		1	6020A
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020A
Nickel	4.5	3.0	0.90	0.30	ug/L			1	6020A
Zinc	5.0	20	6.0	2.0	ug/L	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: CP31 GW004

Lab Sample ID: 280-22438-13

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Water

Date Sampled: 11/01/2011 14:56

Reporting Basis: WET

Date Received: 11/04/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.20	6.0	0.20	0.070	ug/L	U	Q	1	6020A
Copper	1.5	2.0	1.5	0.56	ug/L	U		1	6020A
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020A
Nickel	1.7	3.0	0.90	0.30	ug/L	J		1	6020A
Zinc	3.3	20	6.0	2.0	ug/L	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: CP31 GW005

Lab Sample ID: 280-22438-14

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Water

Date Sampled: 11/01/2011 14:56

Reporting Basis: WET

Date Received: 11/04/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.20	6.0	0.20	0.070	ug/L	U	Q	1	6020A
Copper	1.5	2.0	1.5	0.56	ug/L	U		1	6020A
Lead	0.50	3.0	0.50	0.18	ug/L	U		1	6020A
Nickel	1.5	3.0	0.90	0.30	ug/L	J		1	6020A
Zinc	2.7	20	6.0	2.0	ug/L	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP44 SD014

Lab Sample ID: 280-22438-15

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Solid

Date Sampled: 11/01/2011 16:01

Reporting Basis: DRY

Date Received: 11/04/2011 09:30

% Solids: 87.1

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.045	0.22	0.045	0.016	mg/Kg	U	Q	1	6020A
Copper	5.4	2.8	0.22	0.079	mg/Kg			1	6020A
Lead	0.90	0.11	0.056	0.020	mg/Kg			1	6020A
Nickel	0.69	0.39	0.084	0.028	mg/Kg			1	6020A
Zinc	2.9	2.8	1.0	0.35	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP45 SD015

Lab Sample ID: 280-22438-16

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Solid

Date Sampled: 11/01/2011 15:50

Reporting Basis: DRY

Date Received: 11/04/2011 09:30

% Solids: 86.7

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.040	0.20	0.040	0.014	mg/Kg	U	Q	1	6020A
Copper	0.38	2.5	0.20	0.071	mg/Kg	J		1	6020A
Lead	0.85	0.099	0.050	0.018	mg/Kg			1	6020A
Nickel	0.56	0.35	0.075	0.025	mg/Kg			1	6020A
Zinc	1.7	2.5	0.90	0.31	mg/Kg	J		1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP45 SD016

Lab Sample ID: 280-22438-17

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Solid

Date Sampled: 11/01/2011 15:50

Reporting Basis: DRY

Date Received: 11/04/2011 09:30

% Solids: 86.6

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.043	0.21	0.043	0.015	mg/Kg	U	Q	1	6020A
Copper	0.67	2.7	0.21	0.076	mg/Kg	J		1	6020A
Lead	1.2	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	0.77	0.37	0.080	0.027	mg/Kg			1	6020A
Zinc	3.5	2.7	0.96	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CP46 SD017

Lab Sample ID: 280-22438-18

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Solid

Date Sampled: 11/01/2011 15:40

Reporting Basis: DRY

Date Received: 11/04/2011 09:30

% Solids: 87.5

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.043	0.21	0.043	0.015	mg/Kg	U	Q	1	6020A
Copper	1.2	2.7	0.21	0.076	mg/Kg	J		1	6020A
Lead	2.1	0.11	0.053	0.019	mg/Kg			1	6020A
Nickel	1.5	0.37	0.080	0.027	mg/Kg			1	6020A
Zinc	4.1	2.7	0.96	0.34	mg/Kg			1	6020A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: CP47 GW015

Lab Sample ID: 280-22438-19

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG ID.:

Matrix: Water

Date Sampled: 11/01/2011 13:15

Reporting Basis: WET

Date Received: 11/04/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.20	6.0	0.20	0.070	ug/L	U	Q	1	6020A
Copper	42	2.0	1.5	0.56	ug/L			1	6020A
Lead	3.1	3.0	0.50	0.18	ug/L			1	6020A
Nickel	2.1	3.0	0.90	0.30	ug/L	J		1	6020A
Zinc	390	20	6.0	2.0	ug/L			1	6020A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

ICV Source: MS ICV_00458   Concentration Units: ug/L

CCV Source: MS CCV_00459

Analyte	ICV 280-96706/4 11/16/2011 11:28				CCV 280-96706/15 11/16/2011 11:59				CCV 280-96706/27 11/16/2011 12:34			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	41.1		40.0	103	48.2		50.0	96	48.7		50.0	97
Copper	41.9		40.0	105	50.5		50.0	101	50.6		50.0	101
Lead	43.5		40.0	109	50.8		50.0	102	49.7		50.0	99
Nickel	42.5		40.0	106	50.3		50.0	101	50.5		50.0	101
Zinc	42.1		40.0	105	50.4		50.0	101	50.3		50.0	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

ICV Source: MS ICV_00458   Concentration Units: ug/L

CCV Source: MS CCV_00459

Analyte	CCV 280-96706/40 11/16/2011 13:11											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	48.0		50.0	96								
Copper	50.1		50.0	100								
Lead	50.1		50.0	100								
Nickel	50.3		50.0	101								
Zinc	50.0		50.0	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver　　Job No.: 280-22438-1

SDG No.:

ICV Source: MS ICV_00458　　Concentration Units: ug/L

CCV Source: MS CCV_00459

Analyte	ICV 280-96709/4 11/16/2011 11:28				CCV 280-96709/15 11/16/2011 11:59				CCV 280-96709/20 11/16/2011 19:32			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	41.1		40.0	103	48.2		50.0	96	47.8		50.0	96
Copper	41.9		40.0	105	50.5		50.0	101	48.6		50.0	97
Lead	43.5		40.0	109	50.8		50.0	102	49.5		50.0	99
Nickel	42.5		40.0	106	50.3		50.0	101	49.6		50.0	99
Zinc	42.1		40.0	105	50.4		50.0	101	50.1		50.0	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver | Job No.: 280-22438-1

SDG No.:

ICV Source: MS ICV_00458 | Concentration Units: ug/L

CCV Source: MS CCV_00459

Analyte	CCV 280-96709/29 11/16/2011 19:58				CCV 280-96709/38 11/16/2011 20:24							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	47.9		50.0	96	48.1		50.0	96				
Copper	48.1		50.0	96	48.9		50.0	98				
Lead	49.5		50.0	99	50.0		50.0	100				
Nickel	49.3		50.0	99	49.7		50.0	99				
Zinc	48.9		50.0	98	50.2		50.0	100				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

ICV Source: MS LCCV dly_00459   Concentration Units: ug/L

CCV Source: MS LCCV dly_00459

Analyte	ICVL 280-96706/5 11/16/2011 11:30				CCVL 280-96706/17 11/16/2011 12:05				CCVL 280-96706/29 11/16/2011 12:39			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.19		2.00	110	2.00		2.00	100	1.98	J	2.00	99
Copper	2.08		2.00	104	2.03		2.00	101	2.10		2.00	105
Lead	1.05		1.00	105	1.06		1.00	106	1.04		1.00	104
Nickel	2.10		2.00	105	2.12		2.00	106	2.12		2.00	106
Zinc	10.5		10.0	105	10.4		10.0	104	10.3		10.0	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

ICV Source: MS LCCV dly_00459 Concentration Units: ug/L

CCV Source: MS LCCV dly_00459

Analyte	CCVL 280-96706/42 11/16/2011 13:17											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	1.99	J	2.00	100								
Copper	2.07		2.00	103								
Lead	1.03		1.00	103								
Nickel	2.10		2.00	105								
Zinc	10.4		10.0	104								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

ICV Source: MS LCCV dly_00459 Concentration Units: ug/L

CCV Source: MS LCCV dly_00458

Analyte	ICVL 280-96709/5 11/16/2011 11:30				CCVL 280-96709/22 11/16/2011 19:37							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.19		2.00	110	2.00		2.00	100				
Copper	2.08		2.00	104	2.01		2.00	100				
Lead	1.05		1.00	105	1.02		1.00	102				
Nickel	2.10		2.00	105	2.09		2.00	104				
Zinc	10.5		10.0	105	10.3		10.0	103				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

ICV Source: MS LCCV dly_00459   Concentration Units: ug/L

CCV Source: MS LCCV dly_00459

Analyte	ICVL 280-96709/5 11/16/2011 11:30				CCVL 280-96709/17 11/16/2011 12:05				CCVL 280-96709/31 11/16/2011 20:03			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.19		2.00	110	2.00		2.00	100	2.01		2.00	100
Copper	2.08		2.00	104	2.03		2.00	101	2.03		2.00	101
Lead	1.05		1.00	105	1.06		1.00	106	1.01		1.00	101
Nickel	2.10		2.00	105	2.12		2.00	106	2.06		2.00	103
Zinc	10.5		10.0	105	10.4		10.0	104	10.4		10.0	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

ICV Source: MS LCCV dly_00459   Concentration Units: ug/L

CCV Source: MS LCCV dly_00459

Analyte	CCVL 280-96709/40 11/16/2011 20:30											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.03		2.00	101								
Copper	2.01		2.00	101								
Lead	1.03		1.00	103								
Nickel	2.13		2.00	107								
Zinc	10.3		10.0	103								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Method: 6020A Instrument ID: MT_024

Lab Sample ID: CRI 280-96706/7 Concentration Units: ug/L

CRQL Check Standard Source: MS RL STD_00469

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	1.00	0.987	J	99	80-120
Copper	1.00	1.02	J	102	80-120
Lead	1.00	0.989	J	99	80-120
Nickel	1.00	1.02	J	102	80-120
Zinc	10.0	10.5		105	80-120

Lab Sample ID: CRI 280-96709/7 Concentration Units: ug/L

CRQL Check Standard Source: MS RL STD_00469

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	1.00	0.987	J	99	80-120
Copper	1.00	1.02	J	102	80-120
Lead	1.00	0.989	J	99	80-120
Nickel	1.00	1.02	J	102	80-120
Zinc	10.0	10.5		105	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 280-96706/6 11/16/2011 11:33		CCB 280-96706/16 11/16/2011 12:02		CCB 280-96706/28 11/16/2011 12:37		CCB 280-96706/41 11/16/2011 13:14	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 280-96709/6 11/16/2011 11:33		CCB 280-96709/16 11/16/2011 12:02		CCB 280-96709/21 11/16/2011 19:34		CCB 280-96709/30 11/16/2011 20:00	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 280-96709/39 11/16/2011 20:27							
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U						
Copper	2.0	1.5	U						
Lead	1.0	0.50	U						
Nickel	2.0	0.90	U						
Zinc	10	6.0	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Concentration Units: ug/L   Lab Sample ID: MB 280-94950/1-A

Instrument Code: MT_024   Batch No.: 96706

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.20	U	Q	6020A
7440-50-8	Copper	1.5	U		6020A
7439-92-1	Lead	0.50	U		6020A
7440-02-0	Nickel	0.90	U		6020A
7440-66-6	Zinc	6.0	U		6020A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Concentration Units: mg/Kg   Lab Sample ID: MB 280-96043/1-A

Instrument Code: MT_024   Batch No.: 96709

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.039	U	Q	6020A
7440-50-8	Copper	0.0821	J		6020A
7439-92-1	Lead	0.049	U		6020A
7440-02-0	Nickel	0.0284	J		6020A
7440-66-6	Zinc	0.88	U		6020A

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Lab Sample ID: ICSA 280-96706/9   Instrument ID: MT_024

Lab File ID: 010ICSA.D   ICS Source: MS ICSA_00457

Concentration Units: ug/L

Analyte	True	Found	
	Solution A	Solution A	Percent Recovery
Antimony		**0.295**	
Copper		**0.296**	
Lead		**0.136**	
Nickel		**0.811**	
Zinc		**2.34**	
Arsenic		*0.540*	
Barium		*0.161*	
Beryllium		*-0.0035*	
Cadmium		*0.616*	
Chromium		*1.36*	
Co		*0.0450*	
Manganese		*0.381*	
Molybdenum	*2000*	*2064*	*103*
Selenium		*0.147*	
Silver		*0.0552*	
Thallium		*0.0474*	
Tin		*0.141*	
Uranium		*0.0003*	
Vanadium		*0.206*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Lab Sample ID: ICSA 280-96709/9 Instrument ID: MT_024

Lab File ID: 010ICSA.D ICS Source: MS ICSA_00457

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.295**	
Copper		**0.296**	
Lead		**0.136**	
Nickel		**0.811**	
Zinc		**2.34**	
Arsenic		*0.540*	
Barium		*0.161*	
Beryllium		*-0.0035*	
Cadmium		*0.616*	
Chromium		*1.36*	
Co		*0.0450*	
Manganese		*0.381*	
Molybdenum	*2000*	*2064*	*103*
Selenium		*0.147*	
Silver		*0.0552*	
Thallium		*0.0474*	
Tin		*0.141*	
Uranium		*0.0003*	
Vanadium		*0.206*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Lab Sample ID: ICSAB 280-96706/10   Instrument ID: MT_024

Lab File ID: 011ICSB.D   ICS Source: MS ICSAB_00460

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Antimony	**100**	**106**	**106**
Copper	**100**	**91.1**	**91**
Lead	**100**	**92.5**	**93**
Nickel	**100**	**94.7**	**95**
Zinc	**100**	**99.9**	**100**
Arsenic	*100*	*106*	*106*
Barium	*100*	*104*	*104*
Beryllium	*100*	*99.4*	*99*
Cadmium	*100*	*98.0*	*98*
Chromium	*100*	*101*	*101*
Co	*100*	*98.6*	*99*
Manganese	*100*	*98.2*	*98*
Molybdenum	*2100*	*2207*	*105*
Selenium	*100*	*107*	*107*
Silver	*100*	*89.8*	*90*
Thallium	*100*	*92.9*	*93*
Tin	*100*	*102*	*102*
Uranium	*100*	*99.0*	*99*
Vanadium	*100*	*106*	*106*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Lab Sample ID: ICSAB 280-96709/10 Instrument ID: MT_024

Lab File ID: 011ICSB.D ICS Source: MS ICSAB_00460

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Antimony	**100**	**106**	**106**
Copper	**100**	**91.1**	**91**
Lead	**100**	**92.5**	**93**
Nickel	**100**	**94.7**	**95**
Zinc	**100**	**99.9**	**100**
Arsenic	*100*	*106*	*106*
Barium	*100*	*104*	*104*
Beryllium	*100*	*99.4*	*99*
Cadmium	*100*	*98.0*	*98*
Chromium	*100*	*101*	*101*
Co	*100*	*98.6*	*99*
Manganese	*100*	*98.2*	*98*
Molybdenum	*2100*	*2207*	*105*
Selenium	*100*	*107*	*107*
Silver	*100*	*89.8*	*90*
Thallium	*100*	*92.9*	*93*
Tin	*100*	*102*	*102*
Uranium	*100*	*99.0*	*99*
Vanadium	*100*	*106*	*106*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MG37 GW006 MS

Lab ID: 280-22438-1 MS

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG No.:

Matrix: Water

Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	42.3		0.20	U	40.0	106	85-115	Q	6020A
Copper	42.2		1.5	J	40.0	102	85-119		6020A
Lead	40.9		0.50	U	40.0	102	85-118		6020A
Nickel	52.6		12		40.0	102	85-119		6020A
Zinc	49.4		7.4	J	40.0	105	83-122		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: TP23 SB132 MS   Lab ID: 280-22438-9 MS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Matrix: Solid   Concentration Units: mg/Kg

% Solids: 83.2

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	12.3		0.068	J	22.1	56	82-110	Q J	6020A
Copper	21.2		1.4	J	22.1	90	87-125		6020A
Lead	36.0		15		22.1	97	81-125		6020A
Nickel	24.0		3.7		22.1	92	90-113		6020A
Zinc	41.2		21		22.1	93	85-119		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MG37 GW006 MSD

Lab ID: 280-22438-1 MSD

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG No.:

Matrix: Water

Concentration Units: ug/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	42.4		40.0	106	85-115	0	20	Q	6020A
Copper	42.3		40.0	102	85-119	0	20		6020A
Lead	41.3		40.0	103	85-118	1	20		6020A
Nickel	52.6		40.0	103	85-119	0	20		6020A
Zinc	49.2		40.0	105	83-122	0	20		6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: TP23 SB132 MSD

Lab ID: 280-22438-9 MSD

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 83.2

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	10.6		20.5	51	82-110	15	20	Q J	6020A
Copper	19.5		20.5	88	87-125	8	20		6020A
Lead	32.8		20.5	88	81-125	9	20		6020A
Nickel	22.5		20.5	91	90-113	7	20		6020A
Zinc	37.8		20.5	83	85-119	9	20	J	6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MG37 GW006 PDS

Lab ID: 280-22438-1 PDS

Lab Name: TestAmerica Denver

Job No.: 280-22438-1

SDG No.:

Matrix: Water

Concentration Units: ug/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	204		0.20	U	200	102	75-125	Q	6020A
Copper	192		1.5	J	200	95	75-125		6020A
Lead	193		0.50	U	200	96	75-125		6020A
Nickel	209		12		200	99	75-125		6020A
Zinc	204		7.4	J	200	98	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: TP23 SB132 PDS   Lab ID: 280-22438-9 PDS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Matrix: Solid   Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	101		0.068	J	102	99	75-125	Q	6020A
Copper	96.9		1.4	J	102	94	75-125		6020A
Lead	113		15		102	96	75-125		6020A
Nickel	104		3.7		102	99	75-125		6020A
Zinc	115		21		102	93	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 280-94950/2-A

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

Sample Matrix: Water   LCS Source: MS CALSTD-2_00055

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	40.0	41.1		103	85	115	Q	6020A
Copper	40.0	42.2		105	85	119		6020A
Lead	40.0	42.2		105	85	118		6020A
Nickel	40.0	42.1		105	85	119		6020A
Zinc	40.0	43.9		110	83	122		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-96043/2-A

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

Sample Matrix: Solid   LCS Source: MS CALSTD-2_00055

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Antimony	18.9	16.7		88	82	110	Q	6020A
Copper	18.9	17.8		94	87	125		6020A
Lead	18.9	17.9		95	81	125		6020A
Nickel	18.9	17.9		95	90	113		6020A
Zinc	18.9	17.6		93	85	119		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 280-22438-1

SDG No:

Lab Name: TestAmerica Denver   Job No: 280-22438-1

Matrix: Water   Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.20	U	1.0	U	NC	Q	6020A
Copper	1.5	J	7.5	U	NC		6020A
Lead	0.50	U	2.5	U	NC		6020A
Nickel	12		11.6	J	NC	D	6020A
Zinc	7.4	J	30	U	NC		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-22438-9

SDG No:

Lab Name: TestAmerica Denver Job No: 280-22438-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.068	J	0.20	U	NC	Q	6020A
Copper	1.4	J	1.55	J	NC	D	6020A
Lead	15		15.1		3.2	D	6020A
Nickel	3.7		4.00		8.3	D	6020A
Zinc	21		22.4		8.0	D	6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver   Job Number: 280-22438-1

SDG Number:

Matrix: Solid   Instrument ID: MT_024

Method: 6020A   DL Date: 06/20/2011 12:15

Prep Method: 3050B

Analyte	Wavelength/ Mass	LOQ (mg/Kg)	DL (ug/Kg)
Antimony	121	0.2	14
Copper	63	2.5	71.1
Lead	208	0.1	18.2
Nickel	60	0.35	25.3
Zinc	66	2.5	316

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver   Job Number: 280-22438-1

SDG Number:

Matrix: Solid   Instrument ID: MT_024

Method: 6020A   XMDL Date: 06/20/2011 12:42

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony		2	0.07
Copper		2	0.56
Lead		1	0.18
Nickel		2	0.3
Zinc		10	2

FORM IX - IN

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Denver Job Number: 280-22438-1

SDG Number:

Matrix: Water Instrument ID: MT_024

Method: 6020A DL Date: 06/20/2011 12:07

Prep Method: 3005A

Analyte	Wavelength/ Mass	LOQ (ug/L)	DL (ug/L)
Antimony	121	6	0.07
Copper	63	2	0.56
Lead	208	3	0.18
Nickel	60	3	0.3
Zinc	66	20	2

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Denver   Job Number: 280-22438-1

SDG Number:

Matrix: Water   Instrument ID: MT_024

Method: 6020A   XMDL Date: 06/20/2011 12:44

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony		2	0.07
Copper		2	0.56
Lead		1	0.18
Nickel		2	0.3
Zinc		10	2

FORM IX - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Denver   Job No: 280-22438-1

SDG No.:

Instrument ID: MT_024   Date: 10/10/2011 16:29

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Antimony		4000	6020A
Copper		4000	6020A
Lead		4000	6020A
Nickel		4000	6020A
Zinc		4000	6020A

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 280-94950/1-A	11/15/2011 06:15	94950		50	50
LCS 280-94950/2-A	11/15/2011 06:15	94950		50	50
280-22438-1	11/15/2011 06:15	94950		50	50
280-22438-1 MS	11/15/2011 06:15	94950		50	50
280-22438-1 MSD	11/15/2011 06:15	94950		50	50
280-22438-2	11/15/2011 06:15	94950		50	50
280-22438-3	11/15/2011 06:15	94950		50	50
280-22438-4	11/15/2011 06:15	94950		50	50
280-22438-5	11/15/2011 06:15	94950		50	50
280-22438-6	11/15/2011 06:15	94950		50	50
280-22438-7	11/15/2011 06:15	94950		50	50
280-22438-8	11/15/2011 06:15	94950		50	50
280-22438-12	11/15/2011 06:15	94950		50	50
280-22438-13	11/15/2011 06:15	94950		50	50
280-22438-14	11/15/2011 06:15	94950		50	50
280-22438-19	11/15/2011 06:15	94950		50	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 280-96043/1-A	11/15/2011 06:15	96043	1.02		100
LCS 280-96043/2-A	11/15/2011 06:15	96043	1.06		100
280-22438-9	11/15/2011 06:15	96043	1.18		100
280-22438-9 MS	11/15/2011 06:15	96043	1.09		100
280-22438-9 MSD	11/15/2011 06:15	96043	1.17		100
280-22438-10	11/15/2011 06:15	96043	1.17		100
280-22438-15	11/15/2011 06:15	96043	1.03		100
280-22438-16	11/15/2011 06:15	96043	1.16		100
280-22438-17	11/15/2011 06:15	96043	1.08		100
280-22438-18	11/15/2011 06:15	96043	1.07		100

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Instrument ID: MT_024   Method: 6020A

Start Date: 11/16/2011 11:16   End Date: 11/16/2011 19:05

Lab Sample ID	D/F	Type	Time	Analytes				
				Cu	Ni	Pb	Sb	Zn
ITUNE 280-96706/1			11:16					
IC 280-96706/2	1		11:22	X	X	X	X	X
IC 280-96706/3	1		11:25	X	X	X	X	X
ICV 280-96706/4	1		11:28	X	X	X	X	X
ICVL 280-96706/5	1		11:30	X	X	X	X	X
ICB 280-96706/6	1		11:33	X	X	X	X	X
CRI 280-96706/7	1		11:36	X	X	X	X	X
ZZZZZZ			11:39					
ICSA 280-96706/9	1		11:42	X	X	X	X	X
ICSAB 280-96706/10	1		11:45	X	X	X	X	X
RINSE 280-96706/11			11:48					
CRI 280-96706/12			11:51					
LRA 280-96706/13			11:54					
RINSE 280-96706/14			11:56					
CCV 280-96706/15	1		11:59	X	X	X	X	X
CCB 280-96706/16	1		12:02	X	X	X	X	X
CCVL 280-96706/17	1		12:05	X	X	X	X	X
MB 280-94950/1-A	1	R	12:08	X	X	X	X	X
ZZZZZZ			12:11					
280-22438-1	1	D	12:14	X	X	X	X	X
280-22438-1 SD	5	D	12:16	X	X	X	X	X
280-22438-1 PDS	1	D	12:19	X	X	X	X	X
280-22438-1 MS	1	D	12:22	X	X	X	X	X
280-22438-1 MSD	1	D	12:25	X	X	X	X	X
280-22438-2	1	D	12:28	X	X	X	X	X
280-22438-3	1	D	12:31	X	X	X	X	X
CCV 280-96706/27	1		12:34	X	X	X	X	X
CCB 280-96706/28	1		12:37	X	X	X	X	X
CCVL 280-96706/29	1		12:39	X	X	X	X	X
280-22438-4	1	D	12:42	X	X	X	X	X
280-22438-5	1	D	12:45	X	X	X	X	X
280-22438-6	1	D	12:48	X	X	X	X	X
280-22438-7	1	D	12:51	X	X	X	X	X
280-22438-8	1	D	12:54	X	X	X	X	X
280-22438-12	1	D	12:57	X	X	X	X	X
280-22438-13	1	D	13:00	X	X	X	X	X
280-22438-14	1	D	13:03	X	X	X	X	X
280-22438-19	1	D	13:06	X	X	X	X	X
LCS 280-94950/2-A	1	R	13:09	X	X	X	X	X
CCV 280-96706/40	1		13:11	X	X	X	X	X
CCB 280-96706/41	1		13:14	X	X	X	X	X
CCVL 280-96706/42	1		13:17	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/16/2011 11:16 End Date: 11/16/2011 19:05

Lab Sample ID	D/F	Type	Time	Cu	Ni	Pb	Sb	Zn
ZZZZZZ			13:20					
ZZZZZZ			13:23					
ZZZZZZ			13:26					
ZZZZZZ			13:29					
ZZZZZZ			13:32					
ZZZZZZ			13:35					
ZZZZZZ			13:37					
ZZZZZZ			13:40					
CCV 280-96706/51			13:43					
CCB 280-96706/52			13:46					
RINSE 280-96706/53			13:49					
RINSE 280-96706/54			13:52					
CCV 280-96706/55			13:55					
CCB 280-96706/56			13:58					
ZZZZZZ			14:01					
ZZZZZZ			14:04					
ZZZZZZ			14:06					
ZZZZZZ			14:09					
ZZZZZZ			14:12					
ZZZZZZ			14:15					
ZZZZZZ			14:18					
ZZZZZZ			14:21					
CCV 280-96706/65			14:24					
CCB 280-96706/66			14:27					
ZZZZZZ			14:30					
ZZZZZZ			14:33					
ZZZZZZ			14:36					
ZZZZZZ			14:38					
ZZZZZZ			14:41					
ZZZZZZ			14:44					
ZZZZZZ			14:47					
ZZZZZZ			14:50					
CCV 280-96706/75			14:53					
CCB 280-96706/76			14:56					
ZZZZZZ			14:59					
ZZZZZZ			15:02					
ZZZZZZ			15:04					
ZZZZZZ			15:07					
ZZZZZZ			15:10					
ZZZZZZ			15:13					
ZZZZZZ			15:16					
ZZZZZZ			15:19					

ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Instrument ID: MT_024   Method: 6020A

Start Date: 11/16/2011 11:16   End Date: 11/16/2011 19:05

Lab Sample ID	D/F	Type	Time	Cu	Ni	Pb	Sb	Zn
				Analytes				
CCV 280-96706/85			15:22					
CCB 280-96706/86			15:25					
CCVL 280-96706/87			15:28					
ZZZZZZ			15:31					
ZZZZZZ			15:33					
ZZZZZZ			15:36					
ZZZZZZ			15:39					
ZZZZZZ			15:42					
ZZZZZZ			15:45					
ZZZZZZ			15:48					
ZZZZZZ			15:51					
CCV 280-96706/96			15:54					
CCB 280-96706/97			15:57					
CCVL 280-96706/98			15:59					
RINSE 280-96706/99			16:02					
RINSE 280-96706/100			16:05					
RINSE 280-96706/101			16:08					
RINSE 280-96706/102			16:11					
RINSE 280-96706/103			16:14					
ZZZZZZ			16:17					
IC 280-96706/105			16:20	X	X	X	X	X
IC 280-96706/106			16:23	X	X	X	X	X
CCV 280-96706/107			16:26					
CCB 280-96706/108			16:28					
CCVL 280-96706/109			16:31					
ZZZZZZ			16:34					
ZZZZZZ			16:37					
ZZZZZZ			16:40					
ZZZZZZ			16:43					
ZZZZZZ			16:46					
ZZZZZZ			16:49					
ZZZZZZ			16:52					
ZZZZZZ			16:55					
CCV 280-96706/118			16:58					
CCB 280-96706/119			17:00					
CCVL 280-96706/120			17:03					
ZZZZZZ			17:06					
ZZZZZZ			17:09					
ZZZZZZ			17:12					
ZZZZZZ			17:15					
ZZZZZZ			17:18					
ZZZZZZ			17:21					

ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Instrument ID: MT_024   Method: 6020A

Start Date: 11/16/2011 11:16   End Date: 11/16/2011 19:05

Lab Sample ID	D/F	Type	Time	Analytes: Cu	Ni	Pb	Sb	Zn
ZZZZZZ			17:24					
CCV 280-96706/128			17:27					
CCB 280-96706/129			17:30					
CCVL 280-96706/130			17:33					
ZZZZZZ			17:36					
ZZZZZZ			17:38					
ZZZZZZ			17:41					
ZZZZZZ			17:44					
ZZZZZZ			17:47					
ZZZZZZ			17:50					
ZZZZZZ			17:53					
ZZZZZZ			17:56					
CCV 280-96706/139			17:59					
CCB 280-96706/140			18:02					
CCVL 280-96706/141			18:04					
ZZZZZZ			18:07					
ZZZZZZ			18:10					
ZZZZZZ			18:13					
ZZZZZZ			18:16					
ZZZZZZ			18:19					
ZZZZZZ			18:22					
ZZZZZZ			18:25					
ZZZZZZ			18:28					
CCV 280-96706/150			18:31					
CCB 280-96706/151			18:33					
CCVL 280-96706/152			18:36					
ZZZZZZ			18:39					
ZZZZZZ			18:42					
ZZZZZZ			18:45					
ZZZZZZ			18:48					
ZZZZZZ			18:51					
ZZZZZZ			18:54					
ZZZZZZ			18:57					
CCV 280-96706/160			19:00					
CCB 280-96706/161			19:03					
CCVL 280-96706/162			19:05					

Prep Types
D = Dissolved
R = Total Recoverable
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/16/2011 11:16 End Date: 11/16/2011 23:33

Lab Sample ID	D/F	Type	Time	Cu	Ni	Pb	Sb	Zn
ITUNE 280-96709/1			11:16					
IC 280-96709/2	1		11:22	X	X	X	X	X
IC 280-96709/3	1		11:25	X	X	X	X	X
ICV 280-96709/4	1		11:28	X	X	X	X	X
ICVL 280-96709/5	1		11:30	X	X	X	X	X
ICB 280-96709/6	1		11:33	X	X	X	X	X
CRI 280-96709/7	1		11:36	X	X	X	X	X
ZZZZZZ			11:39					
ICSA 280-96709/9	1		11:42	X	X	X	X	X
ICSAB 280-96709/10	1		11:45	X	X	X	X	X
RINSE 280-96709/11			11:48					
CRI 280-96709/12			11:51					
LRA 280-96709/13			11:54					
RINSE 280-96709/14			11:56					
CCV 280-96709/15	1		11:59	X	X	X	X	X
CCB 280-96709/16	1		12:02	X	X	X	X	X
CCVL 280-96709/17	1		12:05	X	X	X	X	X
IC 280-96709/18	1		19:26	X	X	X	X	X
IC 280-96709/19	1		19:29	X	X	X	X	X
CCV 280-96709/20	1		19:32	X	X	X	X	X
CCB 280-96709/21	1		19:34	X	X	X	X	X
CCVL 280-96709/22	1		19:37	X	X	X	X	X
MB 280-96043/1-A	1	T	19:40	X	X	X	X	X
LCS 280-96043/2-A	1	T	19:43	X	X	X	X	X
280-22438-9	1	T	19:46	X	X	X	X	X
280-22438-9 SD	5	T	19:49	X	X	X	X	X
280-22438-9 PDS	1	T	19:52	X	X	X	X	X
280-22438-9 MS	1	T	19:55	X	X	X	X	X
CCV 280-96709/29	1		19:58	X	X	X	X	X
CCB 280-96709/30	1		20:00	X	X	X	X	X
CCVL 280-96709/31	1		20:03	X	X	X	X	X
280-22438-9 MSD	1	T	20:06	X	X	X	X	X
280-22438-10	1	T	20:09	X	X	X	X	X
280-22438-15	1	T	20:12	X	X	X	X	X
280-22438-16	1	T	20:15	X	X	X	X	X
280-22438-17	1	T	20:18	X	X	X	X	X
280-22438-18	1	T	20:21	X	X	X	X	X
CCV 280-96709/38	1		20:24	X	X	X	X	X
CCB 280-96709/39	1		20:27	X	X	X	X	X
CCVL 280-96709/40	1		20:30	X	X	X	X	X
ZZZZZZ			20:33					
ZZZZZZ			20:35					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Instrument ID: MT_024   Method: 6020A

Start Date: 11/16/2011 11:16   End Date: 11/16/2011 23:33

Lab Sample ID	D/F	Type	Time	Analytes																			
				Cu	Ni	Pb	Sb	Zn															
ZZZZZZ			20:38																				
ZZZZZZ			20:41																				
ZZZZZZ			20:44																				
ZZZZZZ			20:47																				
ZZZZZZ			20:50																				
ZZZZZZ			20:53																				
CCV 280-96709/49			20:56																				
CCB 280-96709/50			20:59																				
ZZZZZZ			21:02																				
ZZZZZZ			21:05																				
ZZZZZZ			21:07																				
ZZZZZZ			21:10																				
ZZZZZZ			21:13																				
ZZZZZZ			21:16																				
ZZZZZZ			21:19																				
ZZZZZZ			21:22																				
CCV 280-96709/59			21:25																				
CCB 280-96709/60			21:28																				
ZZZZZZ			21:31																				
ZZZZZZ			21:34																				
ZZZZZZ			21:37																				
ZZZZZZ			21:40																				
ZZZZZZ			21:42																				
ZZZZZZ			21:45																				
ZZZZZZ			21:48																				
CCV 280-96709/68			21:51																				
CCB 280-96709/69			21:54																				
ZZZZZZ			21:57																				
ZZZZZZ			22:00																				
ZZZZZZ			22:03																				
ZZZZZZ			22:06																				
ZZZZZZ			22:09																				
ZZZZZZ			22:12																				
ZZZZZZ			22:15																				
ZZZZZZ			22:18																				
CCV 280-96709/78			22:20																				
CCB 280-96709/79			22:23																				
ZZZZZZ			22:26																				
ZZZZZZ			22:29																				
ZZZZZZ			22:32																				
ZZZZZZ			22:35																				
ZZZZZZ			22:38																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/16/2011 11:16 End Date: 11/16/2011 23:33

Lab Sample ID	D/F	Type	Time	Analytes																			
				Cu	Ni	Pb	Sb	Zn															
ZZZZZZ			22:41																				
ZZZZZZ			22:44																				
ZZZZZZ			22:47																				
CCV 280-96709/88			22:49																				
CCB 280-96709/89			22:52																				
ZZZZZZ			22:55																				
ZZZZZZ			22:58																				
ZZZZZZ			23:01																				
ZZZZZZ			23:04																				
ZZZZZZ			23:07																				
ZZZZZZ			23:10																				
ZZZZZZ			23:13																				
ZZZZZZ			23:16																				
CCV 280-96709/98			23:19																				
CCB 280-96709/99			23:22																				
ZZZZZZ			23:25																				
ZZZZZZ			23:27																				
CCV 280-96709/102			23:30																				
CCB 280-96709/103			23:33																				

Prep Types

T = Total/NA

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

ICP-MS Instrument ID: MT_024 Analysis Date: 11/16/11

Lab ID: ITUNE 280-96706/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-7	7.00	0.60	1.16	
Be-9	9.00	0.60	1.31	
Mg-24	24.00	0.60	1.20	
Co-59	59.00	0.60	1.13	
In-115	115.05	0.60	0.59	
Pb-208	208.00	0.60	0.56	
U-238	238.00	0.55	1.30	

FORM XIV - IN

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

ICP-MS Instrument ID: MT_024   Analysis Date: 11/16/11

Lab ID: ITUNE 280-96709/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-7	7.00	0.60	1.16	
Be-9	9.00	0.60	1.31	
Mg-24	24.00	0.60	1.20	
Co-59	59.00	0.60	1.13	
In-115	115.05	0.60	0.59	
Pb-208	208.00	0.60	0.56	
U-238	238.00	0.55	1.30	

FORM XIV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

ICP-MS Instrument ID: MT_024   Start Date: 11/16/2011 End Date: 11/16/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
IC 280-96706/2	11:22	100		100		100		100		100	
IC 280-96706/3	11:25	99		99		100		100		102	
ICV 280-96706/4	11:28	98		96		97		96		98	
ICVL 280-96706/5	11:30	100		101		100		100		102	
ICB 280-96706/6	11:33	99		101		102		100		100	
CRI 280-96706/7	11:36	99		100		100		99		101	
ICSA 280-96706/9	11:42	92		86		84		83		87	
ICSAB 280-96706/10	11:45	96		86		83		84		89	
CCV 280-96706/15	11:59	97		98		98		100		99	
CCB 280-96706/16	12:02	94		97		98		98		99	
CCVL 280-96706/17	12:05	97		99		99		100		99	
MB 280-94950/1-A	12:08	97		99		99		99		101	
280-22438-1	12:14	95		98		96		96		98	
280-22438-1 SD	12:16	97		101		100		99		101	
280-22438-1 PDS	12:19	95		96		97		94		97	
280-22438-1 MS	12:22	96		100		98		95		99	
280-22438-1 MSD	12:25	97		100		98		96		98	
280-22438-2	12:28	97		99		100		96		99	
280-22438-3	12:31	102		104		103		101		102	
CCV 280-96706/27	12:34	101		103		102		101		102	
CCB 280-96706/28	12:37	102		103		104		102		101	
CCVL 280-96706/29	12:39	100		104		103		103		102	
280-22438-4	12:42	99		102		101		99		100	
280-22438-5	12:45	101		102		102		99		101	
280-22438-6	12:48	100		103		102		100		99	
280-22438-7	12:51	100		102		101		99		99	
280-22438-8	12:54	100		102		103		101		101	
280-22438-12	12:57	101		103		102		99		99	
280-22438-13	13:00	98		101		100		98		100	
280-22438-14	13:03	99		101		101		99		99	
280-22438-19	13:06	99		101		102		99		100	
LCS 280-94950/2-A	13:09	102		103		103		102		102	
CCV 280-96706/40	13:11	99		102		102		101		100	
CCB 280-96706/41	13:14	100		101		101		100		99	
CCVL 280-96706/42	13:17	100		102		101		102		101	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

ICP-MS Instrument ID: MT_024 Start Date: 11/16/2011 End Date: 11/16/2011

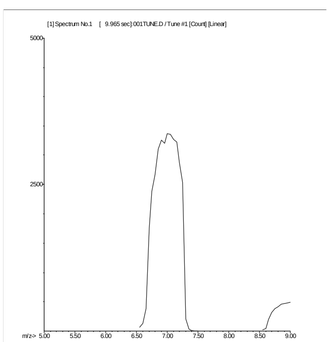
Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
IC 280-96709/2	11:22	100		100		100		100		100	
IC 280-96709/3	11:25	99		99		100		100		102	
ICV 280-96709/4	11:28	98		96		97		96		98	
ICVL 280-96709/5	11:30	100		101		100		100		102	
ICB 280-96709/6	11:33	99		101		102		100		100	
CRI 280-96709/7	11:36	99		100		100		99		101	
ICSA 280-96709/9	11:42	92		86		84		83		87	
ICSAB 280-96709/10	11:45	96		86		83		84		89	
CCV 280-96709/15	11:59	97		98		98		100		99	
CCB 280-96709/16	12:02	94		97		98		98		99	
CCVL 280-96709/17	12:05	97		99		99		100		99	
IC 280-96709/18	19:26	100		100		100		100		100	
IC 280-96709/19	19:29	98		97		97		99		97	
CCV 280-96709/20	19:32	98		97		96		98		98	
CCB 280-96709/21	19:34	97		97		95		97		98	
CCVL 280-96709/22	19:37	98		97		96		98		97	
MB 280-96043/1-A	19:40	98		96		96		98		100	
LCS 280-96043/2-A	19:43	98		96		95		98		98	
280-22438-9	19:46	91		93		94		94		96	
280-22438-9 SD	19:49	94		95		96		97		98	
280-22438-9 PDS	19:52	88		91		92		92		95	
280-22438-9 MS	19:55	88		91		93		92		95	
CCV 280-96709/29	19:58	91		94		96		97		98	
CCB 280-96709/30	20:00	92		97		97		98		98	
CCVL 280-96709/31	20:03	93		98		96		99		99	
280-22438-9 MSD	20:06	89		93		94		94		97	
280-22438-10	20:09	91		93		94		96		96	
280-22438-15	20:12	91		94		94		97		98	
280-22438-16	20:15	93		96		96		97		98	
280-22438-17	20:18	91		94		94		96		97	
280-22438-18	20:21	94		98		97		99		100	
CCV 280-96709/38	20:24	93		98		98		100		100	
CCB 280-96709/39	20:27	94		99		99		100		101	
CCVL 280-96709/40	20:30	96		98		99		99		99	

FORM XV - IN

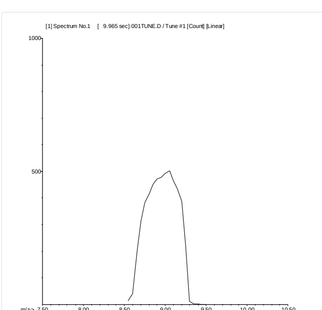
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\001TUNE.D
Date Acquired: Nov 16 2011 11:16 am
Acq. Method: tun_isis.M
Operator: TEL
Sample Name: ITUNE-1109063
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

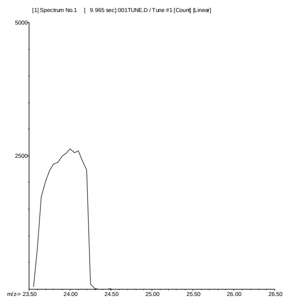
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	**%RSD**	Required	Flag
7 Li	35807	36178	36303	35606	35332	35619	**1.16**	5.00	
9 Be	5270	5176	5298	5342	5222	5313	**1.31**	5.00	RSDfail
24 Mg	29093	28845	29594	28731	29009	29284	**1.20**	5.00	
59 Co	231403	230127	228376	231037	235412	232062	**1.13**	5.00	
115 In	2605731	2609536	2622095	2582683	2598790	2615553	**0.59**	5.00	
208 Pb	199655	198041	200885	199114	200321	199912	**0.56**	5.00	
238 U	363028	362479	368024	355787	366331	362520	**1.30**	5.00	



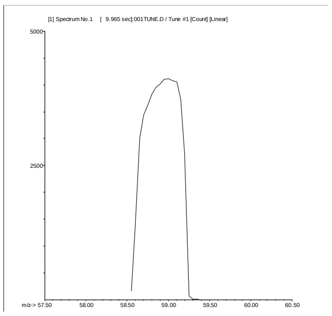
7 Li
Mass Calib.
Actual: 7.00
Required:6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



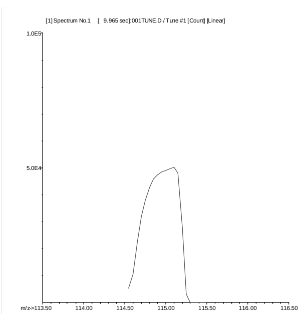
9 Be
Mass Calib.
Actual: 9.00
Required:8.90 - 9.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



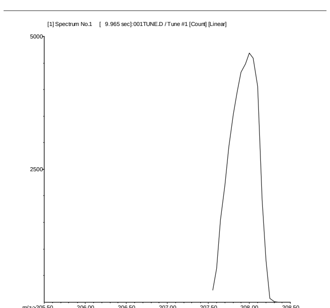
24 Mg
Mass Calib.
Actual: 24.00
Required:23.90 - 24.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



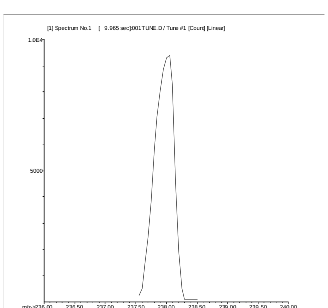
59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



208 Pb
Mass Calib.
Actual: 208.00
Required: 207.90 - 208.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



238 U
Mass Calib.
Actual: 238.00
Required: 237.90 - 238.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:

Tune Result: Fail

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#
Date Acquired:	Nov 16 2011 11:22 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1131044
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:20 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	7	86.60
51	V	72	1	182	70.98
52	Cr	72	1	1880	4.88
55	Mn	72	1	1480	6.45
59	Co	72	1	130	33.53
60	Ni	72	1	143	4.03
63	Cu	72	1	877	9.70
66	Zn	72	1	284	9.86
75	As	72	1	92	20.96
78	Se	72	1	337	23.83
95	Mo	72	1	120	8.33
107	Ag	115	1	33	105.36
111	Cd	115	1	50	32.32
118	Sn	115	1	230	4.35
121	Sb	115	1	119	11.33
137	Ba	115	1	84	36.68
205	Tl	165	1	257	6.49
208	Pb	165	1	953	7.67
232	Th	165	1	220	24.05
238	U	165	1	228	14.44

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	585126	0.54
45	Sc	1	2674809	2.10
72	Ge	1	1557492	1.27
115	In	1	4523827	0.98
165	Ho	1	9084802	0.67

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\004ICAL.D\004ICAL.D#
Date Acquired:	Nov 16 2011 11:25 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1131031
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:23 am
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	84221	0.68
51	V	72	1	2309021	0.86
52	Cr	72	1	2500866	0.36
55	Mn	72	1	2261898	1.20
59	Co	72	1	3513293	1.04
60	Ni	72	1	836641	0.88
63	Cu	72	1	2071435	0.46
66	Zn	72	1	339101	0.46
75	As	72	1	236262	0.25
78	Se	72	1	35243	3.11
95	Mo	72	1	980305	1.38
107	Ag	115	1	3022171	0.93
111	Cd	115	1	485740	0.84
118	Sn	115	1	1305741	0.99
121	Sb	115	1	1348369	1.68
137	Ba	115	1	576687	0.15
205	Tl	165	1	5549042	0.25
208	Pb	165	1	7558414	0.31
232	Th	165	1	7533462	1.74
238	U	165	1	8189341	0.64

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	580489	0.71	585126	99.2	30 - 120	
45	Sc	1	2648130	0.40	2674809	99.0	30 - 120	
72	Ge	1	1560574	0.96	1557492	100.2	30 - 120	
115	In	1	4509053	0.21	4523827	99.7	30 - 120	
165	Ho	1	9301566	0.90	9084802	102.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Initial Calibration Verification (ICV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\005_ICV.D\005_ICV.D#
Date Acquired:	Nov 16 2011 11:28 am
Operator:	TEL
Sample Name:	ICV-1131032
Misc Info:	
Vial Number:	2103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	ICV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.79	ppb	10.78	40	102.0	90 - 110	
51	V	72	1	42.44	ppb	11.18	40	106.1	90 - 110	
52	Cr	72	1	41.91	ppb	9.42	40	104.8	90 - 110	
55	Mn	72	1	42.79	ppb	10.53	40	107.0	90 - 110	
59	Co	72	1	43.19	ppb	11.66	40	108.0	90 - 110	
60	Ni	72	1	42.52	ppb	10.90	40	106.3	90 - 110	
63	Cu	72	1	41.88	ppb	10.12	40	104.7	90 - 110	
66	Zn	72	1	42.07	ppb	10.49	40	105.2	90 - 110	
75	As	72	1	42.56	ppb	10.20	40	106.4	90 - 110	
78	Se	72	1	41.98	ppb	11.23	40	105.0	90 - 110	
95	Mo	72	1	41.73	ppb	10.21	40	104.3	90 - 110	
107	Ag	115	1	43.85	ppb	14.87	40	109.6	90 - 110	
111	Cd	115	1	43.29	ppb	15.87	40	108.2	90 - 110	
118	Sn	115	1	41.73	ppb	16.34	40	104.3	90 - 110	
121	Sb	115	1	41.11	ppb	16.11	40	102.8	90 - 110	
137	Ba	115	1	42.27	ppb	16.01	40	105.7	90 - 110	
205	Tl	165	1	42.26	ppb	14.94	40	105.7	90 - 110	
208	Pb	165	1	43.49	ppb	15.88	40	108.7	90 - 110	
232	Th	165	1	43.99	ppb	16.72	40	110.0	90 - 110	
238	U	165	1	42.61	ppb	18.10	40	106.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	573780	9.01	585126	98.1	30 - 120	
45	Sc	1	2578247	15.13	2674809	96.4	30 - 120	
72	Ge	1	1515616	9.26	1557492	97.3	30 - 120	
115	In	1	4355276	14.36	4523827	96.3	30 - 120	
165	Ho	1	8864036	14.47	9084802	97.6	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\006WASH.D\006WASH.D#
Date Acquired: Nov 16 2011 11:30 am
Operator: TEL
Sample Name: LLICV-1131045
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.959 ppb	11.54	1.30	
51	V	72	1	5.227 ppb	1.51	6.50	
52	Cr	72	1	2.143 ppb	2.24	2.60	
55	Mn	72	1	1.102 ppb	2.20	1.30	
59	Co	72	1	1.041 ppb	1.33	1.30	
60	Ni	72	1	2.097 ppb	1.33	2.60	
63	Cu	72	1	2.076 ppb	1.00	2.60	
66	Zn	72	1	10.470 ppb	1.26	13.00	
75	As	72	1	5.223 ppb	1.09	6.50	
78	Se	72	1	5.201 ppb	5.40	6.50	
95	Mo	72	1	2.053 ppb	2.94	2.60	
107	Ag	115	1	5.281 ppb	1.75	6.50	
111	Cd	115	1	1.098 ppb	4.68	1.30	
118	Sn	115	1	10.310 ppb	0.82	13.00	
121	Sb	115	1	2.192 ppb	0.55	2.60	
137	Ba	115	1	1.078 ppb	3.81	1.30	
205	Tl	165	1	1.108 ppb	2.01	1.30	
208	Pb	165	1	1.047 ppb	1.80	1.30	
232	Th	165	1	2.138 ppb	0.19	2.60	
238	U	165	1	1.050 ppb	1.56	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	586680	0.63	585126	100.3	30 - 120	
45	Sc	1	2703909	0.12	2674809	101.1	30 - 120	
72	Ge	1	1561419	1.11	1557492	100.3	30 - 120	
115	In	1	4524013	0.26	4523827	100.0	30 - 120	
165	Ho	1	9287254	1.83	9084802	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\007_ICB.D\007_ICB.D#
Date Acquired: Nov 16 2011 11:33 am
Operator: TEL
Sample Name: ICB-1131044
Misc Info:
Vial Number: 2104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: ICB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.01	ppb	0.00	1.00	
51	V	72	1	0.00	ppb	937.97	1.00	
52	Cr	72	1	0.01	ppb	108.87	1.00	
55	Mn	72	1	-0.01	ppb	52.56	1.00	
59	Co	72	1	0.00	ppb	66.82	1.00	
60	Ni	72	1	0.00	ppb	153.06	1.00	
63	Cu	72	1	0.00	ppb	642.62	1.00	
66	Zn	72	1	-0.01	ppb	129.78	1.00	
75	As	72	1	0.00	ppb	355.62	1.00	
78	Se	72	1	0.16	ppb	105.20	1.00	
95	Mo	72	1	0.00	ppb	350.14	1.00	
107	Ag	115	1	0.00	ppb	73.26	1.00	
111	Cd	115	1	0.00	ppb	206.57	1.00	
118	Sn	115	1	0.04	ppb	18.35	1.00	
121	Sb	115	1	0.05	ppb	14.95	1.00	
137	Ba	115	1	-0.01	ppb	11.15	1.00	
205	Tl	165	1	0.01	ppb	12.06	1.00	
208	Pb	165	1	0.00	ppb	1840.80	1.00	
232	Th	165	1	0.02	ppb	8.52	1.00	
238	U	165	1	0.00	ppb	61.66	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	580572	0.99	585126	99.2	30 - 120	
45	Sc	1	2698536	1.18	2674809	100.9	30 - 120	
72	Ge	1	1589051	1.27	1557492	102.0	30 - 120	
115	In	1	4528663	1.43	4523827	100.1	30 - 120	
165	Ho	1	9115240	0.50	9084802	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

RL STD QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\008RLST.D\008RLST.D#
Date Acquired: Nov 16 2011 11:36 am
Operator: TEL
Sample Name: CRI-1131033
Misc Info:
Vial Number: 2105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: RLSTD
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1.03	ppb	14.96	1	102.8	80 - 120	
51	V	72	1	1.01	ppb	1.72	1	101.1	80 - 120	
52	Cr	72	1	1.01	ppb	1.66	1	100.6	80 - 120	
55	Mn	72	1	0.97	ppb	3.26	1	97.4	80 - 120	
59	Co	72	1	0.97	ppb	3.54	1	97.5	80 - 120	
60	Ni	72	1	1.02	ppb	1.07	1	101.8	80 - 120	
63	Cu	72	1	1.02	ppb	2.19	1	101.8	80 - 120	
66	Zn	72	1	10.54	ppb	1.33	10	105.4	80 - 120	
75	As	72	1	1.03	ppb	4.07	1	102.9	80 - 120	
78	Se	72	1	1.30	ppb	8.12	1	130.1	80 - 120	Fail
95	Mo	72	1	0.97	ppb	5.28	1	97.1	80 - 120	
107	Ag	115	1	0.98	ppb	4.22	1	98.4	80 - 120	
111	Cd	115	1	1.02	ppb	4.38	1	101.7	80 - 120	
118	Sn	115	1	9.89	ppb	1.60	10	98.9	80 - 120	
121	Sb	115	1	0.99	ppb	0.51	1	98.7	80 - 120	
137	Ba	115	1	1.02	ppb	2.23	1	102.4	80 - 120	
205	Tl	165	1	1.00	ppb	0.75	1	100.2	80 - 120	
208	Pb	165	1	0.99	ppb	0.64	1	98.9	80 - 120	
232	Th	165	1	0.97	ppb	1.73	1	97.2	80 - 120	
238	U	165	1	1.02	ppb	0.38	1	101.7	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	576252	0.76	585126	98.5	30 - 120	
45	Sc	1	2672590	0.24	2674809	99.9	30 - 120	
72	Ge	1	1552131	1.56	1557492	99.7	30 - 120	
115	In	1	4483625	0.28	4523827	99.1	30 - 120	
165	Ho	1	9187657	0.69	9084802	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

AFCEE RL QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\009AFCE.D\009AFCE.D#
Date Acquired:	Nov 16 2011 11:39 am
Operator:	TEL
Sample Name:	AFCEE RL-1131038
Misc Info:	
Vial Number:	2106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	AFCEERL
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	0.23	ppb	21.66	0	113.9	80 - 120	
51	V	72	1	0.18	ppb	5.14	0	90.1	80 - 120	
52	Cr	72	1	0.19	ppb	2.46	0	92.3	80 - 120	
55	Mn	72	1	0.22	ppb	7.12	0	113.8	80 - 120	
59	Co	72	1	0.19	ppb	3.31	0	97.5	80 - 120	
60	Ni	72	1	0.22	ppb	10.21	0	105.7	80 - 120	
63	Cu	72	1	0.21	ppb	7.89	0	103.2	80 - 120	
66	Zn	72	1	2.28	ppb	1.12	2	108.2	80 - 120	
75	As	72	1	0.21	ppb	5.42	0	100.1	80 - 120	
78	Se	72	1	0.29	ppb	75.79	0	110.1	80 - 120	
95	Mo	72	1	0.20	ppb	5.02	0	103.7	80 - 120	
107	Ag	115	1	0.21	ppb	3.00	0	107.3	80 - 120	
111	Cd	115	1	0.20	ppb	8.89	0	98.8	80 - 120	
118	Sn	115	1	1.97	ppb	1.32	2	99.5	80 - 120	
121	Sb	115	1	0.21	ppb	3.15	0	106.1	80 - 120	
137	Ba	115	1	0.21	ppb	1.08	0	101.3	80 - 120	
205	Tl	165	1	0.20	ppb	2.79	0	101.9	80 - 120	
208	Pb	165	1	0.20	ppb	0.85	0	100.9	80 - 120	
232	Th	165	1	0.19	ppb	2.54	0	97.9	80 - 120	
238	U	165	1	0.20	ppb	3.22	0	100.0	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	579567	0.56	585126	99.0	30 - 120	
45	Sc	1	2647739	0.91	2674809	99.0	30 - 120	
72	Ge	1	1560012	0.51	1557492	100.2	30 - 120	
115	In	1	4474455	1.01	4523827	98.9	30 - 120	
165	Ho	1	9165338	0.57	9084802	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\010ICSA.D\010ICSA.D#
Date Acquired:	Nov 16 2011 11:42 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	ICSA-1131040
Misc Info:	
Vial Number:	2108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	ICSA
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
9	Be	6	1	0.00 ppb	219.35	1.00	
51	V	72	1	0.21 ppb	17.17	1.00	
52	Cr	72	1	1.36 ppb	2.63	1.00	
55	Mn	72	1	0.38 ppb	5.73	1.00	
59	Co	72	1	0.05 ppb	8.81	1.00	
60	Ni	72	1	0.81 ppb	0.65	1.00	
63	Cu	72	1	0.30 ppb	3.34	1.00	
66	Zn	72	1	2.34 ppb	1.45	10.00	
75	As	72	1	0.54 ppb	3.54	1.00	
78	Se	72	1	0.15 ppb	16.06	1.00	
95	Mo	72	1	2064.00 ppb	1.53	2000.00	
107	Ag	115	1	0.06 ppb	3.86	1.00	
111	Cd	115	1	0.62 ppb	20.71	1.00	
118	Sn	115	1	0.14 ppb	13.01	10.00	
121	Sb	115	1	0.29 ppb	2.45	1.00	
137	Ba	115	1	0.16 ppb	6.76	1.00	
205	Tl	165	1	0.05 ppb	20.28	1.00	
208	Pb	165	1	0.14 ppb	4.64	1.00	
232	Th	165	1	0.03 ppb	6.51	1.00	
238	U	165	1	0.00 ppb	329.15	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	537360	2.73	585126	91.8	30 - 120	
45	Sc	1	2311964	0.85	2674809	86.4	30 - 120	
72	Ge	1	1312863	0.39	1557492	84.3	30 - 120	
115	In	1	3770281	1.29	4523827	83.3	30 - 120	
165	Ho	1	7909996	1.34	9084802	87.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\011ICSB.D\011ICSB.D#
Date Acquired: Nov 16 2011 11:45 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: ICSAB-1131041
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9	Be	6	1	99.36	1.95	100	99.4	80 - 120	
51	V	72	1	105.70	1.51	100	105.7	80 - 120	
52	Cr	72	1	101.40	0.63	100	101.4	80 - 120	
55	Mn	72	1	98.16	1.55	100	98.2	80 - 120	
59	Co	72	1	98.56	0.74	100	98.6	80 - 120	
60	Ni	72	1	94.67	1.19	100	94.7	80 - 120	
63	Cu	72	1	91.12	0.25	100	91.1	80 - 120	
66	Zn	72	1	99.88	1.17	100	99.9	80 - 120	
75	As	72	1	106.00	0.90	100	106.0	80 - 120	
78	Se	72	1	107.20	3.52	100	107.2	80 - 120	
95	Mo	72	1	2207.00	0.65	2100	105.1	80 - 120	
107	Ag	115	1	89.82	0.61	100	89.8	80 - 120	
111	Cd	115	1	97.97	0.47	100	98.0	80 - 120	
118	Sn	115	1	101.70	0.65	100	101.7	80 - 120	
121	Sb	115	1	105.80	0.35	100	105.8	80 - 120	
137	Ba	115	1	103.70	0.32	100	103.7	80 - 120	
205	Tl	165	1	92.93	0.70	100	92.9	80 - 120	
208	Pb	165	1	92.50	0.93	100	92.5	80 - 120	
232	Th	165	1	101.40	0.09	100	101.4	80 - 120	
238	U	165	1	98.95	1.28	100	99.0	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	562915	1.17	585126	96.2	30 - 120	
45	Sc	1	2301575	0.99	2674809	86.0	30 - 120	
72	Ge	1	1293250	1.19	1557492	83.0	30 - 120	
115	In	1	3816116	0.55	4523827	84.4	30 - 120	
165	Ho	1	8064438	1.03	9084802	88.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\012WASH.D\012WASH.D#
Date Acquired: Nov 16 2011 11:48 am
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.004 ppb	561.13	1.30	
51	V	72	1	0.011 ppb	101.38	6.50	
52	Cr	72	1	0.007 ppb	85.22	2.60	
55	Mn	72	1	0.020 ppb	19.37	1.30	
59	Co	72	1	0.006 ppb	25.88	1.30	
60	Ni	72	1	0.010 ppb	60.93	2.60	
63	Cu	72	1	0.013 ppb	30.10	2.60	
66	Zn	72	1	0.019 ppb	11.22	13.00	
75	As	72	1	0.008 ppb	41.07	6.50	
78	Se	72	1	-0.104 ppb	87.26	6.50	
95	Mo	72	1	0.448 ppb	10.03	2.60	
107	Ag	115	1	0.008 ppb	27.67	6.50	
111	Cd	115	1	0.008 ppb	58.14	1.30	
118	Sn	115	1	0.028 ppb	5.08	13.00	
121	Sb	115	1	0.011 ppb	7.95	2.60	
137	Ba	115	1	0.012 ppb	29.46	1.30	
205	Tl	165	1	0.015 ppb	11.58	1.30	
208	Pb	165	1	0.011 ppb	11.27	1.30	
232	Th	165	1	0.026 ppb	2.39	2.60	
238	U	165	1	0.016 ppb	4.66	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	603722	0.39	585126	103.2	30 - 120	
45	Sc	1	2551236	0.67	2674809	95.4	30 - 120	
72	Ge	1	1523263	0.89	1557492	97.8	30 - 120	
115	In	1	4445809	1.17	4523827	98.3	30 - 120	
165	Ho	1	9006447	0.59	9084802	99.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\013WASH.D\013WASH.D#
Date Acquired:	Nov 16 2011 11:51 am
Operator:	TEL
Sample Name:	ALTSe-1131039
Misc Info:	
Vial Number:	2107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.008 ppb	0.00	1.30	
51 V	72	1	0.002 ppb	300.05	6.50	
52 Cr	72	1	0.032 ppb	18.80	2.60	
55 Mn	72	1	0.000 ppb	754.60	1.30	
59 Co	72	1	0.001 ppb	23.97	1.30	
60 Ni	72	1	0.004 ppb	83.59	2.60	
63 Cu	72	1	0.019 ppb	35.22	2.60	
66 Zn	72	1	-0.005 ppb	171.09	13.00	
75 As	72	1	0.002 ppb	380.54	6.50	
78 Se	72	1	1.999 ppb	9.04	6.50	
95 Mo	72	1	0.103 ppb	10.71	2.60	
107 Ag	115	1	0.003 ppb	22.62	6.50	
111 Cd	115	1	0.003 ppb	22.13	1.30	
118 Sn	115	1	0.069 ppb	11.94	13.00	
121 Sb	115	1	0.002 ppb	57.21	2.60	
137 Ba	115	1	-0.003 ppb	81.32	1.30	
205 Tl	165	1	0.003 ppb	41.03	1.30	
208 Pb	165	1	-0.001 ppb	131.55	1.30	
232 Th	165	1	0.007 ppb	16.59	2.60	
238 U	165	1	0.002 ppb	22.76	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	582318	0.46	585126	99.5	30 - 120	
45 Sc	1	2663477	1.02	2674809	99.6	30 - 120	
72 Ge	1	1563007	1.21	1557492	100.4	30 - 120	
115 In	1	4507206	2.20	4523827	99.6	30 - 120	
165 Ho	1	9178357	0.72	9084802	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Linear Dynamic Range Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\014_LR.D\014_LR.D#
Date Acquired:	Nov 16 2011 11:54 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	LRA-1131042
Misc Info:	
Vial Number:	2110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	LR
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1029.00 ppb	0.66	1000	102.9	90 - 110	
51	V	72	1	955.70 ppb	1.90	1000	95.6	90 - 110	
52	Cr	72	1	961.20 ppb	1.45	1000	96.1	90 - 110	
55	Mn	72	1	941.90 ppb	0.54	1000	94.2	90 - 110	
59	Co	72	1	968.10 ppb	0.90	1000	96.8	90 - 110	
60	Ni	72	1	982.80 ppb	1.57	1000	98.3	90 - 110	
63	Cu	72	1	944.50 ppb	1.18	1000	94.5	90 - 110	
66	Zn	72	1	1005.00 ppb	0.73	1000	100.5	90 - 110	
75	As	72	1	1017.00 ppb	1.12	1000	101.7	90 - 110	
78	Se	72	1	1006.00 ppb	0.73	1000	100.6	90 - 110	
95	Mo	72	1	977.80 ppb	1.13	1000	97.8	90 - 110	
107	Ag	115	1	975.80 ppb	0.83	1000	97.6	90 - 110	
111	Cd	115	1	992.20 ppb	0.87	1000	99.2	90 - 110	
118	Sn	115	1	966.10 ppb	1.58	1000	96.6	90 - 110	
121	Sb	115	1	968.00 ppb	0.44	1000	96.8	90 - 110	
137	Ba	115	1	997.70 ppb	0.52	1000	99.8	90 - 110	
205	Tl	165	1	993.90 ppb	0.41	1000	99.4	90 - 110	
208	Pb	165	1	977.40 ppb	0.94	1000	97.7	90 - 110	
232	Th	165	1	1014.00 ppb	1.71	1000	101.4	90 - 110	
238	U	165	1	1010.00 ppb	1.82	1000	101.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	553773	0.49	585126	94.6	30 - 120	
45	Sc	1	2546200	0.83	2674809	95.2	30 - 120	
72	Ge	1	1506979	0.88	1557492	96.8	30 - 120	
115	In	1	4409432	0.72	4523827	97.5	30 - 120	
165	Ho	1	9017149	1.16	9084802	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\015WASH.D\015WASH.D#
Date Acquired:	Nov 16 2011 11:56 am
Operator:	TEL
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.108 ppb	33.40	1.30	
51	V	72	1	0.058 ppb	23.24	6.50	
52	Cr	72	1	0.064 ppb	19.78	2.60	
55	Mn	72	1	0.079 ppb	19.46	1.30	
59	Co	72	1	0.075 ppb	12.68	1.30	
60	Ni	72	1	0.093 ppb	18.22	2.60	
63	Cu	72	1	0.077 ppb	10.47	2.60	
66	Zn	72	1	0.097 ppb	12.28	13.00	
75	As	72	1	0.091 ppb	1.44	6.50	
78	Se	72	1	0.155 ppb	55.31	6.50	
95	Mo	72	1	0.248 ppb	4.09	2.60	
107	Ag	115	1	0.097 ppb	5.63	6.50	
111	Cd	115	1	0.088 ppb	12.33	1.30	
118	Sn	115	1	0.410 ppb	10.08	13.00	
121	Sb	115	1	0.171 ppb	4.76	2.60	
137	Ba	115	1	0.074 ppb	12.69	1.30	
205	Tl	165	1	0.113 ppb	3.81	1.30	
208	Pb	165	1	0.082 ppb	3.52	1.30	
232	Th	165	1	0.149 ppb	4.13	2.60	
238	U	165	1	0.138 ppb	6.03	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	554384	0.94	585126	94.7	30 - 120	
45	Sc	1	2578165	1.81	2674809	96.4	30 - 120	
72	Ge	1	1531376	1.06	1557492	98.3	30 - 120	
115	In	1	4417204	0.48	4523827	97.6	30 - 120	
165	Ho	1	8996200	0.95	9084802	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\016_CCV.D\016_CCV.D#
Date Acquired:	Nov 16 2011 11:59 am
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.09	ppb	1.62	50	100.2	90 - 110	
51	V	72	1	51.51	ppb	1.25	50	103.0	90 - 110	
52	Cr	72	1	50.86	ppb	1.49	50	101.7	90 - 110	
55	Mn	72	1	50.13	ppb	0.37	50	100.3	90 - 110	
59	Co	72	1	51.11	ppb	0.69	50	102.2	90 - 110	
60	Ni	72	1	50.33	ppb	0.86	50	100.7	90 - 110	
63	Cu	72	1	50.53	ppb	0.72	50	101.1	90 - 110	
66	Zn	72	1	50.41	ppb	0.81	50	100.8	90 - 110	
75	As	72	1	50.21	ppb	1.45	50	100.4	90 - 110	
78	Se	72	1	51.15	ppb	3.27	50	102.3	90 - 110	
95	Mo	72	1	49.61	ppb	1.11	50	99.2	90 - 110	
107	Ag	115	1	50.29	ppb	1.24	50	100.6	90 - 110	
111	Cd	115	1	49.39	ppb	0.59	50	98.8	90 - 110	
118	Sn	115	1	48.01	ppb	0.36	50	96.0	90 - 110	
121	Sb	115	1	48.21	ppb	0.82	50	96.4	90 - 110	
137	Ba	115	1	49.84	ppb	1.46	50	99.7	90 - 110	
205	Tl	165	1	51.45	ppb	0.82	50	102.9	90 - 110	
208	Pb	165	1	50.80	ppb	0.33	50	101.6	90 - 110	
232	Th	165	1	51.54	ppb	0.37	50	103.1	90 - 110	
238	U	165	1	51.60	ppb	1.06	50	103.2	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	567031	1.57	585126	96.9	30 - 120	
45	Sc	1	2609732	0.73	2674809	97.6	30 - 120	
72	Ge	1	1524725	1.26	1557492	97.9	30 - 120	
115	In	1	4509412	0.46	4523827	99.7	30 - 120	
165	Ho	1	9021546	0.46	9084802	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\017_CCB.D\017_CCB.D#
Date Acquired: Nov 16 2011 12:02 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.013	ppb	146.83	1.00	
51	V	72	1	0.015	ppb	76.35	1.00	
52	Cr	72	1	0.001	ppb	145.92	1.00	
55	Mn	72	1	0.026	ppb	6.93	1.00	
59	Co	72	1	0.012	ppb	24.12	1.00	
60	Ni	72	1	0.014	ppb	81.61	1.00	
63	Cu	72	1	0.016	ppb	36.75	1.00	
66	Zn	72	1	0.031	ppb	24.82	1.00	
75	As	72	1	0.015	ppb	9.29	1.00	
78	Se	72	1	0.068	ppb	101.31	1.00	
95	Mo	72	1	0.052	ppb	26.46	1.00	
107	Ag	115	1	0.018	ppb	14.54	1.00	
111	Cd	115	1	0.008	ppb	98.07	1.00	
118	Sn	115	1	0.091	ppb	24.65	1.00	
121	Sb	115	1	0.028	ppb	7.05	1.00	
137	Ba	115	1	0.016	ppb	45.48	1.00	
205	Tl	165	1	0.024	ppb	4.79	1.00	
208	Pb	165	1	0.015	ppb	9.65	1.00	
232	Th	165	1	0.034	ppb	13.71	1.00	
238	U	165	1	0.020	ppb	8.05	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551938	1.05	585126	94.3	30 - 120	
45	Sc	1	2589157	0.41	2674809	96.8	30 - 120	
72	Ge	1	1528907	1.44	1557492	98.2	30 - 120	
115	In	1	4440250	0.80	4523827	98.2	30 - 120	
165	Ho	1	8984795	1.60	9084802	98.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\018WASH.D\018WASH.D#
Date Acquired: Nov 16 2011 12:05 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.090 ppb	3.96	1.30	
51	V	72	1	5.078 ppb	1.50	6.50	
52	Cr	72	1	2.088 ppb	1.00	2.60	
55	Mn	72	1	1.064 ppb	3.63	1.30	
59	Co	72	1	1.043 ppb	1.57	1.30	
60	Ni	72	1	2.119 ppb	1.23	2.60	
63	Cu	72	1	2.028 ppb	2.78	2.60	
66	Zn	72	1	10.370 ppb	1.02	13.00	
75	As	72	1	5.195 ppb	2.95	6.50	
78	Se	72	1	5.000 ppb	6.64	6.50	
95	Mo	72	1	2.118 ppb	0.87	2.60	
107	Ag	115	1	5.208 ppb	0.61	6.50	
111	Cd	115	1	1.093 ppb	3.14	1.30	
118	Sn	115	1	10.250 ppb	0.87	13.00	
121	Sb	115	1	2.002 ppb	1.90	2.60	
137	Ba	115	1	1.056 ppb	1.29	1.30	
205	Tl	165	1	1.086 ppb	0.23	1.30	
208	Pb	165	1	1.058 ppb	0.22	1.30	
232	Th	165	1	2.163 ppb	1.93	2.60	
238	U	165	1	1.064 ppb	1.86	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	565025	0.28	585126	96.6	30 - 120	
45	Sc	1	2657342	1.39	2674809	99.3	30 - 120	
72	Ge	1	1536448	0.94	1557492	98.6	30 - 120	
115	In	1	4502652	0.31	4523827	99.5	30 - 120	
165	Ho	1	8996214	0.19	9084802	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\019_BLK.D\019_BLK.D#
Date Acquired:	Nov 16 2011 12:08 pm
Operator:	TEL
Sample Name:	mb 280-94950/1-a
Misc Info:	BLANK 94950 DoD4/6020A
Vial Number:	2201
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.004 ppb	487.53	2.00	
51	V	72	1	0.017 ppb	61.37	2.00	
52	Cr	72	1	0.036 ppb	23.93	2.00	
55	Mn	72	1	0.027 ppb	33.19	2.00	
59	Co	72	1	0.005 ppb	43.06	2.00	
60	Ni	72	1	0.036 ppb	20.36	2.00	
63	Cu	72	1	0.047 ppb	13.05	2.00	
66	Zn	72	1	1.041 ppb	3.84	2.00	
75	As	72	1	0.004 ppb	187.85	2.00	
78	Se	72	1	0.113 ppb	160.32	2.00	
95	Mo	72	1	0.025 ppb	12.08	2.00	
107	Ag	115	1	0.005 ppb	38.57	2.00	
111	Cd	115	1	0.004 ppb	70.54	2.00	
118	Sn	115	1	0.085 ppb	18.61	2.00	
121	Sb	115	1	0.007 ppb	43.32	2.00	
137	Ba	115	1	0.008 ppb	67.87	2.00	
205	Tl	165	1	0.008 ppb	29.54	2.00	
208	Pb	165	1	0.006 ppb	11.98	2.00	
232	Th	165	1	0.017 ppb	18.50	2.00	
238	U	165	1	0.006 ppb	18.60	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	566906	0.21	585126	96.9	30 - 120	
45	Sc	1	2651513	0.57	2674809	99.1	30 - 120	
72	Ge	1	1535043	0.80	1557492	98.6	30 - 120	
115	In	1	4491141	1.24	4523827	99.3	30 - 120	
165	Ho	1	9147636	1.30	9084802	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\020_LCS.D\020_LCS.D#
Date Acquired:	Nov 16 2011 12:11 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-94950/2-a
Misc Info:	LCS
Vial Number:	2202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	44.36	5.58	40	110.9	80 - 120	
51	V	72	1	46.06	5.65	40	115.2	80 - 120	
52	Cr	72	1	45.23	4.93	40	113.1	80 - 120	
55	Mn	72	1	44.61	7.09	40	111.5	80 - 120	
59	Co	72	1	45.57	7.91	40	113.9	80 - 120	
60	Ni	72	1	44.65	6.63	40	111.6	80 - 120	
63	Cu	72	1	44.56	6.68	40	111.4	80 - 120	
66	Zn	72	1	46.00	6.82	40	115.0	80 - 120	
75	As	72	1	45.44	5.77	40	113.6	80 - 120	
78	Se	72	1	46.87	6.51	40	117.2	80 - 120	
95	Mo	72	1	43.74	6.05	40	109.4	80 - 120	
107	Ag	115	1	46.22	7.78	40	115.6	80 - 120	
111	Cd	115	1	45.57	8.21	40	113.9	80 - 120	
118	Sn	115	1	44.16	7.19	40	110.4	80 - 120	
121	Sb	115	1	44.00	7.21	40	110.0	80 - 120	
137	Ba	115	1	45.55	7.87	40	113.9	80 - 120	
205	Tl	165	1	46.31	6.28	40	115.8	80 - 120	
208	Pb	165	1	45.24	7.26	40	113.1	80 - 120	
232	Th	165	1	45.72	6.51	40	114.3	80 - 120	
238	U	165	1	45.90	6.93	40	114.8	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	548309	4.95	585126	93.7	30 - 120	
45	Sc	1	2540589	6.72	2674809	95.0	30 - 120	
72	Ge	1	1472347	5.89	1557492	94.5	30 - 120	
115	In	1	4208586	6.96	4523827	93.0	30 - 120	
165	Ho	1	8579495	6.22	9084802	94.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\021AREF.D\021AREF.D#
Date Acquired:	Nov 16 2011 12:14 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-c-1-a
Misc Info:	
Vial Number:	2203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.79	0.79	ppb	10.06	3600	
51	V	72	1	0.06	0.06	ppb	4.17	3600	
52	Cr	72	1	0.81	0.81	ppb	1.63	3600	
55	Mn	72	1	971.10	971.10	ppb	2.51	18000	
59	Co	72	1	9.64	9.64	ppb	2.29	3600	
60	Ni	72	1	11.59	11.59	ppb	1.90	3600	
63	Cu	72	1	1.55	1.55	ppb	2.47	3600	
66	Zn	72	1	7.40	7.40	ppb	1.08	3600	
75	As	72	1	0.69	0.69	ppb	3.38	3600	
78	Se	72	1	1.21	1.21	ppb	23.47	3600	
95	Mo	72	1	0.15	0.15	ppb	1.44	3600	
107	Ag	115	1	0.01	0.01	ppb	10.62	3600	
111	Cd	115	1	0.38	0.38	ppb	3.90	3600	
118	Sn	115	1	0.13	0.13	ppb	8.65	3600	
121	Sb	115	1	0.06	0.06	ppb	7.71	3600	
137	Ba	115	1	87.77	87.77	ppb	1.66	3600	
205	Tl	165	1	1.03	1.03	ppb	2.16	3600	
208	Pb	165	1	0.12	0.12	ppb	2.76	3600	
232	Th	165	1	0.04	0.04	ppb	11.51	1000	
238	U	165	1	0.04	0.04	ppb	3.71	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552737	1.48	585126	94.5	30 - 120	
45	Sc	1	2620424	2.98	2674809	98.0	30 - 120	
72	Ge	1	1496383	1.14	1557492	96.1	30 - 120	
115	In	1	4320723	1.16	4523827	95.5	30 - 120	
165	Ho	1	8872504	1.61	9084802	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\022SDIL.D\022SDIL.D#
Date Acquired: Nov 16 2011 12:16 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-1-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\021AREF.D\021AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)			Flag
9	Be	6	1	0.15	ppb	6.18	0.16	92.3	90	-	110	
51	V	72	1	0.03	ppb	38.18	0.01	212.4	90	-	110	
52	Cr	72	1	0.18	ppb	2.73	0.16	108.6	90	-	110	
55	Mn	72	1	197.30	ppb	2.27	194.22	101.6	90	-	110	
59	Co	72	1	1.96	ppb	3.03	1.93	101.9	90	-	110	
60	Ni	72	1	2.32	ppb	1.45	2.32	100.1	90	-	110	
63	Cu	72	1	0.32	ppb	2.26	0.31	104.9	90	-	110	
66	Zn	72	1	1.69	ppb	2.73	1.48	113.9	90	-	110	
75	As	72	1	0.13	ppb	13.14	0.14	97.3	90	-	110	
78	Se	72	1	0.38	ppb	48.39	0.24	156.0	90	-	110	
95	Mo	72	1	0.05	ppb	5.89	0.03	157.5	90	-	110	
107	Ag	115	1	0.01	ppb	43.54	0.00	270.2	90	-	110	
111	Cd	115	1	0.09	ppb	9.61	0.08	117.9	90	-	110	
118	Sn	115	1	0.05	ppb	7.73	0.03	202.9	90	-	110	
121	Sb	115	1	0.02	ppb	11.15	0.01	156.9	90	-	110	
137	Ba	115	1	17.47	ppb	1.81	17.55	99.5	90	-	110	
205	Tl	165	1	0.22	ppb	3.12	0.21	106.6	90	-	110	
208	Pb	165	1	0.03	ppb	4.69	0.02	131.9	90	-	110	
232	Th	165	1	0.01	ppb	24.96	0.01	172.9	90	-	110	
238	U	165	1	0.01	ppb	4.10	0.01	169.2	90	-	110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	568413	1.58	585126	97.1	30	-	120	
45	Sc	1	2697272	2.41	2674809	100.8	30	-	120	
72	Ge	1	1564133	1.52	1557492	100.4	30	-	120	
115	In	1	4487235	1.51	4523827	99.2	30	-	120	
165	Ho	1	9139119	2.68	9084802	100.6	30	-	120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\023PDS.D\023PDS.D#	
Date Acquired:	Nov 16 2011 12:19 pm	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	TEL	**ISTD: Pass**
Sample Name:	280-22438-c-1-a PDS	
Misc Info:	POST DIGESTION SPIKE	
Vial Number:	2205	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 16 2011 11:25 am	
Sample Type:	PDS	
Prep Dil. Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	208.30	0.79	ppb	2.37	200	103.7	75 - 125	
51	V	72	1	196.60	0.06	ppb	1.09	200	98.3	75 - 125	
52	Cr	72	1	194.00	0.81	ppb	1.62	200	96.6	75 - 125	
55	Mn	72	1	1134.00	971.10	ppb	2.63	200	96.8	75 - 125	
59	Co	72	1	200.60	9.64	ppb	1.94	200	95.7	75 - 125	
60	Ni	72	1	209.10	11.59	ppb	3.40	200	98.8	75 - 125	
63	Cu	72	1	192.00	1.55	ppb	1.85	200	95.3	75 - 125	
66	Zn	72	1	204.30	7.40	ppb	1.56	200	98.5	75 - 125	
75	As	72	1	205.40	0.69	ppb	1.66	200	102.3	75 - 125	
78	Se	72	1	204.20	1.21	ppb	1.79	200	101.5	75 - 125	
95	Mo	72	1	198.90	0.15	ppb	1.93	200	99.4	75 - 125	
107	Ag	115	1	49.37	0.01	ppb	2.26	50	98.7	75 - 125	
111	Cd	115	1	205.90	0.38	ppb	2.36	200	102.8	75 - 125	
118	Sn	115	1	200.50	0.13	ppb	2.95	200	100.2	75 - 125	
121	Sb	115	1	204.10	0.06	ppb	2.60	200	102.0	75 - 125	
137	Ba	115	1	300.00	87.77	ppb	3.43	200	104.2	75 - 125	
205	Tl	165	1	194.50	1.03	ppb	3.15	200	96.8	75 - 125	
208	Pb	165	1	192.70	0.12	ppb	2.62	200	96.3	75 - 125	
232	Th	165	1	0.07	0.04	ppb	7.82	200	0.0	75 - 125	
238	U	165	1	201.10	0.04	ppb	2.33	200	100.5	75 - 125	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	556108	2.54	585126	95.0	30 - 120	
45	Sc	1	2574951	2.06	2674809	96.3	30 - 120	
72	Ge	1	1510124	1.18	1557492	97.0	30 - 120	
115	In	1	4245885	2.09	4523827	93.9	30 - 120	
165	Ho	1	8781730	2.17	9084802	96.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\024_MS.D\024_MS.D#
Date Acquired:	Nov 16 2011 12:22 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-c-1-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	2206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	43.78	0.79	ppb	0.30	40	107.3	50 - 150	
51 V	72	1	43.81	0.06	ppb	2.25	40	109.4	50 - 150	
52 Cr	72	1	42.83	0.81	ppb	0.66	40	105.0	50 - 150	
55 Mn	72	1	997.60	971.10	ppb	1.33	40	98.7	50 - 150	
59 Co	72	1	52.32	9.64	ppb	1.58	40	105.4	50 - 150	
60 Ni	72	1	52.55	11.59	ppb	0.68	40	101.9	50 - 150	
63 Cu	72	1	42.19	1.55	ppb	1.52	40	101.6	50 - 150	
66 Zn	72	1	49.37	7.40	ppb	1.47	40	104.2	50 - 150	
75 As	72	1	44.29	0.69	ppb	1.64	40	108.9	50 - 150	
78 Se	72	1	45.00	1.21	ppb	3.91	40	109.2	50 - 150	
95 Mo	72	1	42.09	0.15	ppb	0.94	40	104.8	50 - 150	
107 Ag	115	1	41.78	0.01	ppb	0.41	40	104.4	50 - 150	
111 Cd	115	1	43.30	0.38	ppb	0.93	40	107.2	50 - 150	
118 Sn	115	1	41.84	0.13	ppb	0.40	40	104.3	50 - 150	
121 Sb	115	1	42.33	0.06	ppb	0.37	40	105.7	50 - 150	
137 Ba	115	1	130.50	87.77	ppb	0.18	40	102.1	50 - 150	
205 Tl	165	1	42.76	1.03	ppb	1.28	40	104.2	50 - 150	
208 Pb	165	1	40.90	0.12	ppb	1.16	40	101.9	50 - 150	
232 Th	165	1	43.28	0.04	ppb	1.85	40	108.1	50 - 150	
238 U	165	1	43.02	0.04	ppb	1.90	40	107.4	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	560151	0.81	585126	95.7	30 - 120	
45 Sc	1	2670156	0.82	2674809	99.8	30 - 120	
72 Ge	1	1529815	1.47	1557492	98.2	30 - 120	
115 In	1	4316620	0.60	4523827	95.4	30 - 120	
165 Ho	1	8957389	1.22	9084802	98.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\025_MSD.D\025_MSD.D#
Date Acquired: Nov 16 2011 12:25 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-1-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 2207
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\024_MS.D\024_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	45.49	ppb	2.77	43.78	3.83	20	
51	V	72	1	44.55	ppb	0.83	43.81	1.67	20	
52	Cr	72	1	43.91	ppb	0.64	42.83	2.49	20	
55	Mn	72	1	992.40	ppb	0.92	997.60	0.52	20	
59	Co	72	1	52.64	ppb	1.32	52.32	0.61	20	
60	Ni	72	1	52.62	ppb	1.21	52.55	0.13	20	
63	Cu	72	1	42.32	ppb	1.06	42.19	0.31	20	
66	Zn	72	1	49.23	ppb	1.21	49.37	0.28	20	
75	As	72	1	44.48	ppb	1.62	44.29	0.43	20	
78	Se	72	1	46.20	ppb	3.36	45.00	2.63	20	
95	Mo	72	1	42.55	ppb	1.50	42.09	1.09	20	
107	Ag	115	1	41.88	ppb	0.43	41.78	0.24	20	
111	Cd	115	1	43.60	ppb	0.72	43.30	0.69	20	
118	Sn	115	1	42.20	ppb	1.42	41.84	0.86	20	
121	Sb	115	1	42.42	ppb	0.66	42.33	0.21	20	
137	Ba	115	1	131.00	ppb	1.04	130.50	0.38	20	
205	Tl	165	1	43.14	ppb	1.03	42.76	0.88	20	
208	Pb	165	1	41.28	ppb	0.93	40.90	0.92	20	
232	Th	165	1	43.18	ppb	1.07	43.28	0.23	20	
238	U	165	1	43.22	ppb	1.64	43.02	0.46	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	566218	1.01	585126	96.8	30 - 120	
45	Sc	1	2662732	1.24	2674809	99.5	30 - 120	
72	Ge	1	1531735	1.57	1557492	98.3	30 - 120	
115	In	1	4327039	1.19	4523827	95.6	30 - 120	
165	Ho	1	8921901	1.32	9084802	98.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\026SMPL.D\026SMPL.D#
Date Acquired: Nov 16 2011 12:28 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-2-a
Misc Info:
Vial Number: 2208
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.07	1.07	ppb	16.96	3600	
51	V	72	1	0.04	0.04	ppb	46.31	3600	
52	Cr	72	1	0.69	0.69	ppb	2.81	3600	
55	Mn	72	1	726.80	726.80	ppb	0.63	18000	
59	Co	72	1	6.70	6.70	ppb	2.00	3600	
60	Ni	72	1	9.01	9.01	ppb	2.71	3600	
63	Cu	72	1	0.99	0.99	ppb	1.70	3600	
66	Zn	72	1	4.33	4.33	ppb	1.25	3600	
75	As	72	1	0.63	0.63	ppb	0.45	3600	
78	Se	72	1	1.05	1.05	ppb	12.97	3600	
95	Mo	72	1	0.13	0.13	ppb	4.06	3600	
107	Ag	115	1	0.01	0.01	ppb	15.11	3600	
111	Cd	115	1	0.36	0.36	ppb	10.01	3600	
118	Sn	115	1	0.11	0.11	ppb	5.46	3600	
121	Sb	115	1	0.05	0.05	ppb	12.24	3600	
137	Ba	115	1	82.86	82.86	ppb	0.90	3600	
205	Tl	165	1	0.95	0.95	ppb	1.03	3600	
208	Pb	165	1	0.10	0.10	ppb	4.15	3600	
232	Th	165	1	0.04	0.04	ppb	10.27	1000	
238	U	165	1	0.08	0.08	ppb	2.63	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	564440	1.18	585126	96.5	30 - 120	
45	Sc	1	2651921	2.01	2674809	99.1	30 - 120	
72	Ge	1	1558763	1.78	1557492	100.1	30 - 120	
115	In	1	4343198	0.33	4523827	96.0	30 - 120	
165	Ho	1	8959426	0.26	9084802	98.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\027SMPL.D\027SMPL.D#
Date Acquired: Nov 16 2011 12:31 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-b-3-a
Misc Info:
Vial Number: 2209
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.06	0.06	ppb	49.29	3600	
51	V	72	1	0.02	0.02	ppb	70.40	3600	
52	Cr	72	1	0.13	0.13	ppb	0.66	3600	
55	Mn	72	1	574.50	574.50	ppb	0.84	18000	
59	Co	72	1	5.09	5.09	ppb	1.59	3600	
60	Ni	72	1	7.40	7.40	ppb	3.19	3600	
63	Cu	72	1	0.27	0.27	ppb	2.00	3600	
66	Zn	72	1	5.78	5.78	ppb	0.52	3600	
75	As	72	1	0.16	0.16	ppb	71.89	3600	
78	Se	72	1	0.22	0.22	ppb	28.90	3600	
95	Mo	72	1	0.42	0.42	ppb	9.73	3600	
107	Ag	115	1	0.00	0.00	ppb	29.09	3600	
111	Cd	115	1	0.50	0.50	ppb	3.36	3600	
118	Sn	115	1	0.11	0.11	ppb	8.45	3600	
121	Sb	115	1	0.03	0.03	ppb	7.69	3600	
137	Ba	115	1	23.48	23.48	ppb	0.71	3600	
205	Tl	165	1	0.07	0.07	ppb	6.11	3600	
208	Pb	165	1	0.05	0.05	ppb	2.53	3600	
232	Th	165	1	0.01	0.01	ppb	13.78	1000	
238	U	165	1	0.01	0.01	ppb	7.46	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	594965	0.84	585126	101.7	30 - 120	
45	Sc	1	2794427	0.88	2674809	104.5	30 - 120	
72	Ge	1	1606625	1.65	1557492	103.2	30 - 120	
115	In	1	4566930	1.32	4523827	101.0	30 - 120	
165	Ho	1	9276669	0.68	9084802	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\028_CCV.D\028_CCV.D#
Date Acquired:	Nov 16 2011 12:34 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.04	ppb	1.52	50	100.1	90 - 110	
51	V	72	1	51.67	ppb	2.58	50	103.3	90 - 110	
52	Cr	72	1	51.08	ppb	2.27	50	102.2	90 - 110	
55	Mn	72	1	50.53	ppb	1.73	50	101.1	90 - 110	
59	Co	72	1	51.17	ppb	1.17	50	102.3	90 - 110	
60	Ni	72	1	50.53	ppb	0.70	50	101.1	90 - 110	
63	Cu	72	1	50.63	ppb	1.12	50	101.3	90 - 110	
66	Zn	72	1	50.26	ppb	1.28	50	100.5	90 - 110	
75	As	72	1	50.48	ppb	1.31	50	101.0	90 - 110	
78	Se	72	1	51.03	ppb	0.97	50	102.1	90 - 110	
95	Mo	72	1	49.00	ppb	1.24	50	98.0	90 - 110	
107	Ag	115	1	51.13	ppb	1.09	50	102.3	90 - 110	
111	Cd	115	1	50.45	ppb	0.26	50	100.9	90 - 110	
118	Sn	115	1	48.63	ppb	0.41	50	97.3	90 - 110	
121	Sb	115	1	48.72	ppb	0.36	50	97.4	90 - 110	
137	Ba	115	1	50.68	ppb	0.73	50	101.4	90 - 110	
205	Tl	165	1	50.59	ppb	0.31	50	101.2	90 - 110	
208	Pb	165	1	49.72	ppb	1.21	50	99.4	90 - 110	
232	Th	165	1	50.41	ppb	1.74	50	100.8	90 - 110	
238	U	165	1	50.28	ppb	0.96	50	100.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	592582	1.48	585126	101.3	30 - 120	
45	Sc	1	2754380	1.93	2674809	103.0	30 - 120	
72	Ge	1	1596338	1.65	1557492	102.5	30 - 120	
115	In	1	4581722	0.56	4523827	101.3	30 - 120	
165	Ho	1	9249795	1.08	9084802	101.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\029_CCB.D\029_CCB.D#
Date Acquired:	Nov 16 2011 12:37 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.008	ppb	88.25	1.00	
51	V	72	1	0.005	ppb	257.40	1.00	
52	Cr	72	1	-0.002	ppb	249.24	1.00	
55	Mn	72	1	0.070	ppb	15.75	1.00	
59	Co	72	1	0.010	ppb	12.10	1.00	
60	Ni	72	1	0.012	ppb	48.19	1.00	
63	Cu	72	1	0.014	ppb	17.31	1.00	
66	Zn	72	1	0.015	ppb	29.30	1.00	
75	As	72	1	0.019	ppb	29.65	1.00	
78	Se	72	1	0.231	ppb	12.16	1.00	
95	Mo	72	1	0.021	ppb	21.21	1.00	
107	Ag	115	1	0.008	ppb	14.65	1.00	
111	Cd	115	1	0.008	ppb	63.00	1.00	
118	Sn	115	1	0.041	ppb	4.28	1.00	
121	Sb	115	1	0.014	ppb	16.79	1.00	
137	Ba	115	1	0.013	ppb	33.11	1.00	
205	Tl	165	1	0.015	ppb	5.22	1.00	
208	Pb	165	1	0.010	ppb	10.95	1.00	
232	Th	165	1	0.025	ppb	12.01	1.00	
238	U	165	1	0.011	ppb	2.66	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	595834	0.99	585126	101.8	30 - 120	
45	Sc	1	2749107	0.74	2674809	102.8	30 - 120	
72	Ge	1	1619892	0.67	1557492	104.0	30 - 120	
115	In	1	4631080	1.62	4523827	102.4	30 - 120	
165	Ho	1	9175515	0.37	9084802	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\030WASH.D\030WASH.D#
Date Acquired: Nov 16 2011 12:39 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.862 ppb	2.71	1.30	
51	V	72	1	5.118 ppb	3.04	6.50	
52	Cr	72	1	2.124 ppb	1.66	2.60	
55	Mn	72	1	1.093 ppb	1.51	1.30	
59	Co	72	1	1.044 ppb	1.50	1.30	
60	Ni	72	1	2.115 ppb	2.13	2.60	
63	Cu	72	1	2.103 ppb	1.11	2.60	
66	Zn	72	1	10.280 ppb	0.71	13.00	
75	As	72	1	5.230 ppb	2.25	6.50	
78	Se	72	1	5.234 ppb	7.82	6.50	
95	Mo	72	1	2.095 ppb	3.13	2.60	
107	Ag	115	1	5.153 ppb	1.57	6.50	
111	Cd	115	1	1.055 ppb	3.20	1.30	
118	Sn	115	1	10.160 ppb	0.86	13.00	
121	Sb	115	1	1.982 ppb	2.18	2.60	
137	Ba	115	1	1.029 ppb	2.88	1.30	
205	Tl	165	1	1.059 ppb	0.97	1.30	
208	Pb	165	1	1.035 ppb	0.43	1.30	
232	Th	165	1	2.088 ppb	0.67	2.60	
238	U	165	1	1.036 ppb	1.68	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	586717	0.86	585126	100.3	30 - 120	
45	Sc	1	2781205	1.25	2674809	104.0	30 - 120	
72	Ge	1	1598413	0.43	1557492	102.6	30 - 120	
115	In	1	4667992	0.53	4523827	103.2	30 - 120	
165	Ho	1	9232140	0.31	9084802	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\031SMPL.D\031SMPL.D#		
Date Acquired:	Nov 16 2011 12:42 pm		
Acq. Method:	NormISIS.M	QC Summary:	
Operator:	TEL	Analytes:	Pass
Sample Name:	280-22438-c-4-a	ISTD:	Pass
Misc Info:			
Vial Number:	2210		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 11:25 am		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.06	0.06	ppb	32.98	3600	
51	V	72	1	0.02	0.02	ppb	36.59	3600	
52	Cr	72	1	0.19	0.19	ppb	9.72	3600	
55	Mn	72	1	612.00	612.00	ppb	0.64	18000	
59	Co	72	1	4.74	4.74	ppb	0.70	3600	
60	Ni	72	1	5.50	5.50	ppb	1.87	3600	
63	Cu	72	1	0.57	0.57	ppb	4.52	3600	
66	Zn	72	1	8.96	8.96	ppb	0.73	3600	
75	As	72	1	0.12	0.12	ppb	5.34	3600	
78	Se	72	1	0.33	0.33	ppb	58.77	3600	
95	Mo	72	1	0.18	0.18	ppb	3.85	3600	
107	Ag	115	1	0.00	0.00	ppb	58.20	3600	
111	Cd	115	1	0.26	0.26	ppb	13.26	3600	
118	Sn	115	1	0.05	0.05	ppb	13.38	3600	
121	Sb	115	1	0.02	0.02	ppb	15.59	3600	
137	Ba	115	1	42.42	42.42	ppb	1.84	3600	
205	Tl	165	1	0.22	0.22	ppb	3.83	3600	
208	Pb	165	1	0.06	0.06	ppb	4.80	3600	
232	Th	165	1	0.02	0.02	ppb	6.01	1000	
238	U	165	1	0.00	0.00	ppb	15.01	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	579706	0.92	585126	99.1	30 - 120	
45	Sc	1	2727185	1.18	2674809	102.0	30 - 120	
72	Ge	1	1577569	0.42	1557492	101.3	30 - 120	
115	In	1	4476646	1.06	4523827	99.0	30 - 120	
165	Ho	1	9057628	1.99	9084802	99.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\032SMPL.D\032SMPL.D#
Date Acquired: Nov 16 2011 12:45 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-5-a
Misc Info:
Vial Number: 2211
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	107.58	3600	
51	V	72	1	0.03	0.03	ppb	45.52	3600	
52	Cr	72	1	0.28	0.28	ppb	2.72	3600	
55	Mn	72	1	350.90	350.90	ppb	1.27	18000	
59	Co	72	1	3.33	3.33	ppb	2.94	3600	
60	Ni	72	1	6.53	6.53	ppb	0.75	3600	
63	Cu	72	1	0.30	0.30	ppb	0.98	3600	
66	Zn	72	1	12.33	12.33	ppb	1.04	3600	
75	As	72	1	0.19	0.19	ppb	0.44	3600	
78	Se	72	1	0.18	0.18	ppb	40.03	3600	
95	Mo	72	1	1.87	1.87	ppb	2.09	3600	
107	Ag	115	1	0.00	0.00	ppb	83.83	3600	
111	Cd	115	1	0.07	0.07	ppb	24.31	3600	
118	Sn	115	1	0.07	0.07	ppb	6.35	3600	
121	Sb	115	1	0.05	0.05	ppb	13.59	3600	
137	Ba	115	1	6.96	6.96	ppb	1.20	3600	
205	Tl	165	1	0.02	0.02	ppb	8.81	3600	
208	Pb	165	1	0.07	0.07	ppb	0.93	3600	
232	Th	165	1	0.01	0.01	ppb	27.88	1000	
238	U	165	1	0.02	0.02	ppb	3.04	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	589985	0.78	585126	100.8	30 - 120	
45	Sc	1	2737806	1.51	2674809	102.4	30 - 120	
72	Ge	1	1590471	1.02	1557492	102.1	30 - 120	
115	In	1	4495769	0.16	4523827	99.4	30 - 120	
165	Ho	1	9185023	0.90	9084802	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\033SMPL.D\033SMPL.D#
Date Acquired: Nov 16 2011 12:48 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-6-a
Misc Info:
Vial Number: 2212
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	173.36	3600	
51	V	72	1	0.04	0.04	ppb	20.79	3600	
52	Cr	72	1	0.19	0.19	ppb	3.01	3600	
55	Mn	72	1	352.60	352.60	ppb	0.30	18000	
59	Co	72	1	5.01	5.01	ppb	1.41	3600	
60	Ni	72	1	13.11	13.11	ppb	1.04	3600	
63	Cu	72	1	0.28	0.28	ppb	4.92	3600	
66	Zn	72	1	4.01	4.01	ppb	1.35	3600	
75	As	72	1	0.28	0.28	ppb	5.38	3600	
78	Se	72	1	0.08	0.08	ppb	390.25	3600	
95	Mo	72	1	6.46	6.46	ppb	1.35	3600	
107	Ag	115	1	0.00	0.00	ppb	40.83	3600	
111	Cd	115	1	1.04	1.04	ppb	1.18	3600	
118	Sn	115	1	0.05	0.05	ppb	4.18	3600	
121	Sb	115	1	0.07	0.07	ppb	3.19	3600	
137	Ba	115	1	2.83	2.83	ppb	2.48	3600	
205	Tl	165	1	0.04	0.04	ppb	5.13	3600	
208	Pb	165	1	0.02	0.02	ppb	7.07	3600	
232	Th	165	1	0.01	0.01	ppb	5.81	1000	
238	U	165	1	0.03	0.03	ppb	1.71	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	583038	0.79	585126	99.6	30 - 120	
45	Sc	1	2742037	0.28	2674809	102.5	30 - 120	
72	Ge	1	1582419	1.13	1557492	101.6	30 - 120	
115	In	1	4517348	0.69	4523827	99.9	30 - 120	
165	Ho	1	9020226	0.62	9084802	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\034SMPL.D\034SMPL.D#
Date Acquired: Nov 16 2011 12:51 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-7-a
Misc Info:
Vial Number: 2301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	189.30	3600	
51	V	72	1	0.10	0.10	ppb	10.73	3600	
52	Cr	72	1	0.31	0.31	ppb	4.93	3600	
55	Mn	72	1	345.00	345.00	ppb	0.93	18000	
59	Co	72	1	4.92	4.92	ppb	0.92	3600	
60	Ni	72	1	12.17	12.17	ppb	1.41	3600	
63	Cu	72	1	0.51	0.51	ppb	2.70	3600	
66	Zn	72	1	4.23	4.23	ppb	1.81	3600	
75	As	72	1	0.27	0.27	ppb	2.57	3600	
78	Se	72	1	0.10	0.10	ppb	120.33	3600	
95	Mo	72	1	5.46	5.46	ppb	1.45	3600	
107	Ag	115	1	0.00	0.00	ppb	71.09	3600	
111	Cd	115	1	0.91	0.91	ppb	1.16	3600	
118	Sn	115	1	0.05	0.05	ppb	3.56	3600	
121	Sb	115	1	0.07	0.07	ppb	5.32	3600	
137	Ba	115	1	3.46	3.46	ppb	2.19	3600	
205	Tl	165	1	0.03	0.03	ppb	2.29	3600	
208	Pb	165	1	0.04	0.04	ppb	0.64	3600	
232	Th	165	1	0.02	0.02	ppb	14.70	1000	
238	U	165	1	0.02	0.02	ppb	4.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	583497	0.46	585126	99.7	30 - 120	
45	Sc	1	2725114	0.67	2674809	101.9	30 - 120	
72	Ge	1	1572723	0.94	1557492	101.0	30 - 120	
115	In	1	4458745	0.97	4523827	98.6	30 - 120	
165	Ho	1	9011767	0.59	9084802	99.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\035SMPL.D\035SMPL.D#
Date Acquired:	Nov 16 2011 12:54 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-c-8-a
Misc Info:	
Vial Number:	2302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	93.96	3600	
51	V	72	1	0.02	0.02	ppb	99.51	3600	
52	Cr	72	1	0.17	0.17	ppb	7.40	3600	
55	Mn	72	1	221.20	221.20	ppb	1.91	18000	
59	Co	72	1	4.52	4.52	ppb	2.82	3600	
60	Ni	72	1	4.47	4.47	ppb	1.91	3600	
63	Cu	72	1	0.40	0.40	ppb	4.68	3600	
66	Zn	72	1	5.67	5.67	ppb	1.90	3600	
75	As	72	1	0.11	0.11	ppb	12.63	3600	
78	Se	72	1	0.14	0.14	ppb	138.31	3600	
95	Mo	72	1	1.68	1.68	ppb	4.67	3600	
107	Ag	115	1	0.00	0.00	ppb	101.60	3600	
111	Cd	115	1	0.69	0.69	ppb	4.50	3600	
118	Sn	115	1	0.05	0.05	ppb	19.59	3600	
121	Sb	115	1	0.03	0.03	ppb	10.36	3600	
137	Ba	115	1	7.22	7.22	ppb	1.65	3600	
205	Tl	165	1	0.04	0.04	ppb	1.86	3600	
208	Pb	165	1	0.04	0.04	ppb	3.06	3600	
232	Th	165	1	0.00	0.00	ppb	15.61	1000	
238	U	165	1	0.00	0.00	ppb	10.07	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	587762	1.27	585126	100.5	30 - 120	
45	Sc	1	2741306	3.03	2674809	102.5	30 - 120	
72	Ge	1	1603938	2.70	1557492	103.0	30 - 120	
115	In	1	4559091	2.39	4523827	100.8	30 - 120	
165	Ho	1	9157501	2.00	9084802	100.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\036SMPL.D\036SMPL.D#
Date Acquired:	Nov 16 2011 12:57 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-c-12-a
Misc Info:	
Vial Number:	2303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	305.11	3600	
51	V	72	1	0.04	0.04	ppb	24.04	3600	
52	Cr	72	1	0.20	0.20	ppb	4.05	3600	
55	Mn	72	1	169.70	169.70	ppb	1.17	18000	
59	Co	72	1	2.89	2.89	ppb	1.03	3600	
60	Ni	72	1	4.46	4.46	ppb	2.64	3600	
63	Cu	72	1	0.51	0.51	ppb	4.16	3600	
66	Zn	72	1	5.03	5.03	ppb	1.30	3600	
75	As	72	1	0.06	0.06	ppb	9.79	3600	
78	Se	72	1	0.24	0.24	ppb	46.60	3600	
95	Mo	72	1	0.51	0.51	ppb	2.10	3600	
107	Ag	115	1	0.00	0.00	ppb	387.37	3600	
111	Cd	115	1	0.66	0.66	ppb	2.10	3600	
118	Sn	115	1	0.06	0.06	ppb	18.43	3600	
121	Sb	115	1	0.02	0.02	ppb	7.88	3600	
137	Ba	115	1	10.86	10.86	ppb	0.57	3600	
205	Tl	165	1	0.05	0.05	ppb	6.59	3600	
208	Pb	165	1	0.04	0.04	ppb	3.65	3600	
232	Th	165	1	0.00	0.00	ppb	12.74	1000	
238	U	165	1	0.00	0.00	ppb	13.68	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	588624	1.48	585126	100.6	30 - 120	
45	Sc	1	2741980	1.84	2674809	102.5	30 - 120	
72	Ge	1	1588555	1.37	1557492	102.0	30 - 120	
115	In	1	4471104	0.42	4523827	98.8	30 - 120	
165	Ho	1	8987920	1.31	9084802	98.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\037SMPL.D\037SMPL.D#
Date Acquired:	Nov 16 2011 01:00 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-c-13-a
Misc Info:	
Vial Number:	2304
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	74.62	3600	
51	V	72	1	1.48	1.48	ppb	3.19	3600	
52	Cr	72	1	0.76	0.76	ppb	2.16	3600	
55	Mn	72	1	82.47	82.47	ppb	1.35	18000	
59	Co	72	1	0.28	0.28	ppb	1.60	3600	
60	Ni	72	1	1.66	1.66	ppb	1.81	3600	
63	Cu	72	1	0.33	0.33	ppb	1.88	3600	
66	Zn	72	1	3.33	3.33	ppb	0.86	3600	
75	As	72	1	6.09	6.09	ppb	0.13	3600	
78	Se	72	1	0.22	0.22	ppb	40.15	3600	
95	Mo	72	1	1.43	1.43	ppb	3.26	3600	
107	Ag	115	1	0.00	0.00	ppb	35.48	3600	
111	Cd	115	1	0.03	0.03	ppb	45.51	3600	
118	Sn	115	1	0.12	0.12	ppb	6.40	3600	
121	Sb	115	1	0.05	0.05	ppb	3.67	3600	
137	Ba	115	1	0.69	0.69	ppb	2.19	3600	
205	Tl	165	1	0.00	0.00	ppb	19.49	3600	
208	Pb	165	1	0.16	0.16	ppb	2.35	3600	
232	Th	165	1	0.16	0.16	ppb	1.92	1000	
238	U	165	1	0.07	0.07	ppb	1.79	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	572910	0.96	585126	97.9	30 - 120	
45	Sc	1	2692585	0.10	2674809	100.7	30 - 120	
72	Ge	1	1565068	0.72	1557492	100.5	30 - 120	
115	In	1	4452666	1.11	4523827	98.4	30 - 120	
165	Ho	1	9039977	0.28	9084802	99.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\038SMPL.D\038SMPL.D#
Date Acquired: Nov 16 2011 01:03 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-14-a
Misc Info:
Vial Number: 2305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.03	0.03	ppb	74.92	3600	
51 V	72	1	1.31	1.31	ppb	4.00	3600	
52 Cr	72	1	0.66	0.66	ppb	3.77	3600	
55 Mn	72	1	87.12	87.12	ppb	0.51	18000	
59 Co	72	1	0.29	0.29	ppb	1.80	3600	
60 Ni	72	1	1.54	1.54	ppb	1.71	3600	
63 Cu	72	1	0.10	0.10	ppb	12.10	3600	
66 Zn	72	1	2.70	2.70	ppb	0.98	3600	
75 As	72	1	5.93	5.93	ppb	2.33	3600	
78 Se	72	1	0.23	0.23	ppb	24.95	3600	
95 Mo	72	1	1.48	1.48	ppb	0.36	3600	
107 Ag	115	1	0.00	0.00	ppb	48.17	3600	
111 Cd	115	1	0.02	0.02	ppb	56.55	3600	
118 Sn	115	1	0.06	0.06	ppb	4.08	3600	
121 Sb	115	1	0.05	0.05	ppb	9.22	3600	
137 Ba	115	1	0.43	0.43	ppb	1.59	3600	
205 Tl	165	1	0.00	0.00	ppb	6.17	3600	
208 Pb	165	1	0.03	0.03	ppb	1.48	3600	
232 Th	165	1	0.12	0.12	ppb	1.47	1000	
238 U	165	1	0.06	0.06	ppb	3.09	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	577195	1.32	585126	98.6	30 - 120	
45 Sc	1	2701016	0.76	2674809	101.0	30 - 120	
72 Ge	1	1573213	1.41	1557492	101.0	30 - 120	
115 In	1	4464543	1.06	4523827	98.7	30 - 120	
165 Ho	1	8994470	1.41	9084802	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\039SMPL.D\039SMPL.D#
Date Acquired: Nov 16 2011 01:06 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-19-a
Misc Info:
Vial Number: 2306
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	179.01	3600	
51	V	72	1	1.17	1.17	ppb	1.83	3600	
52	Cr	72	1	3.10	3.10	ppb	1.01	3600	
55	Mn	72	1	57.11	57.11	ppb	0.82	18000	
59	Co	72	1	0.69	0.69	ppb	2.76	3600	
60	Ni	72	1	2.06	2.06	ppb	1.03	3600	
63	Cu	72	1	41.61	41.61	ppb	0.12	3600	
66	Zn	72	1	394.90	394.90	ppb	0.85	3600	
75	As	72	1	0.65	0.65	ppb	1.54	3600	
78	Se	72	1	0.22	0.22	ppb	64.09	3600	
95	Mo	72	1	0.24	0.24	ppb	9.07	3600	
107	Ag	115	1	0.07	0.07	ppb	9.20	3600	
111	Cd	115	1	0.04	0.04	ppb	9.40	3600	
118	Sn	115	1	0.85	0.85	ppb	2.00	3600	
121	Sb	115	1	0.07	0.07	ppb	7.15	3600	
137	Ba	115	1	22.97	22.97	ppb	1.12	3600	
205	Tl	165	1	0.01	0.01	ppb	5.31	3600	
208	Pb	165	1	3.09	3.09	ppb	1.25	3600	
232	Th	165	1	0.00	0.00	ppb	42.01	1000	
238	U	165	1	0.01	0.01	ppb	5.65	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	576369	0.28	585126	98.5	30 - 120	
45	Sc	1	2712104	0.98	2674809	101.4	30 - 120	
72	Ge	1	1584558	1.04	1557492	101.7	30 - 120	
115	In	1	4479245	1.46	4523827	99.0	30 - 120	
165	Ho	1	9050437	1.29	9084802	99.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\040_LCS.D\040_LCS.D#
Date Acquired:	Nov 16 2011 01:09 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-94950/2-a
Misc Info:	LCS
Vial Number:	2202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	42.08	3.74	40	105.2	80 - 120	
51 V	72	1	43.53	1.09	40	108.8	80 - 120	
52 Cr	72	1	42.90	1.18	40	107.3	80 - 120	
55 Mn	72	1	42.70	0.51	40	106.8	80 - 120	
59 Co	72	1	43.54	0.36	40	108.9	80 - 120	
60 Ni	72	1	42.13	0.58	40	105.3	80 - 120	
63 Cu	72	1	42.19	0.50	40	105.5	80 - 120	
66 Zn	72	1	43.91	0.86	40	109.8	80 - 120	
75 As	72	1	43.28	0.88	40	108.2	80 - 120	
78 Se	72	1	44.14	4.40	40	110.4	80 - 120	
95 Mo	72	1	41.42	0.64	40	103.6	80 - 120	
107 Ag	115	1	42.74	0.66	40	106.9	80 - 120	
111 Cd	115	1	42.44	0.91	40	106.1	80 - 120	
118 Sn	115	1	41.06	0.40	40	102.7	80 - 120	
121 Sb	115	1	41.10	0.60	40	102.8	80 - 120	
137 Ba	115	1	42.51	0.25	40	106.3	80 - 120	
205 Tl	165	1	43.06	2.85	40	107.7	80 - 120	
208 Pb	165	1	42.17	0.54	40	105.4	80 - 120	
232 Th	165	1	41.97	0.19	40	104.9	80 - 120	
238 U	165	1	42.43	1.44	40	106.1	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	599375	2.76	585126	102.4	30 - 120	
45 Sc	1	2754380	2.12	2674809	103.0	30 - 120	
72 Ge	1	1599897	0.88	1557492	102.7	30 - 120	
115 In	1	4610136	0.61	4523827	101.9	30 - 120	
165 Ho	1	9249130	0.17	9084802	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\041_CCV.D\041_CCV.D#
Date Acquired:	Nov 16 2011 01:11 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.30	ppb	1.02	50	102.6	90 - 110	
51	V	72	1	51.03	ppb	2.43	50	102.1	90 - 110	
52	Cr	72	1	50.38	ppb	0.95	50	100.8	90 - 110	
55	Mn	72	1	50.21	ppb	2.25	50	100.4	90 - 110	
59	Co	72	1	51.20	ppb	1.14	50	102.4	90 - 110	
60	Ni	72	1	50.31	ppb	1.09	50	100.6	90 - 110	
63	Cu	72	1	50.12	ppb	1.95	50	100.2	90 - 110	
66	Zn	72	1	49.98	ppb	1.12	50	100.0	90 - 110	
75	As	72	1	50.22	ppb	0.37	50	100.4	90 - 110	
78	Se	72	1	50.35	ppb	4.25	50	100.7	90 - 110	
95	Mo	72	1	48.91	ppb	2.10	50	97.8	90 - 110	
107	Ag	115	1	50.31	ppb	1.17	50	100.6	90 - 110	
111	Cd	115	1	49.70	ppb	0.51	50	99.4	90 - 110	
118	Sn	115	1	47.74	ppb	1.37	50	95.5	90 - 110	
121	Sb	115	1	48.04	ppb	0.47	50	96.1	90 - 110	
137	Ba	115	1	49.65	ppb	0.64	50	99.3	90 - 110	
205	Tl	165	1	51.06	ppb	0.48	50	102.1	90 - 110	
208	Pb	165	1	50.10	ppb	0.65	50	100.2	90 - 110	
232	Th	165	1	50.72	ppb	1.07	50	101.4	90 - 110	
238	U	165	1	50.52	ppb	0.77	50	101.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	578761	0.75	585126	98.9	30 - 120	
45	Sc	1	2724190	0.57	2674809	101.8	30 - 120	
72	Ge	1	1581201	0.78	1557492	101.5	30 - 120	
115	In	1	4580548	0.33	4523827	101.3	30 - 120	
165	Ho	1	9116615	0.48	9084802	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\042_CCB.D\042_CCB.D#
Date Acquired: Nov 16 2011 01:14 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.020	ppb	69.20	1.00	
51	V	72	1	0.007	ppb	55.18	1.00	
52	Cr	72	1	0.002	ppb	241.19	1.00	
55	Mn	72	1	0.048	ppb	6.26	1.00	
59	Co	72	1	0.008	ppb	36.54	1.00	
60	Ni	72	1	0.013	ppb	43.01	1.00	
63	Cu	72	1	0.013	ppb	43.83	1.00	
66	Zn	72	1	0.031	ppb	30.99	1.00	
75	As	72	1	0.014	ppb	58.19	1.00	
78	Se	72	1	0.236	ppb	132.99	1.00	
95	Mo	72	1	0.021	ppb	24.17	1.00	
107	Ag	115	1	0.009	ppb	2.79	1.00	
111	Cd	115	1	0.004	ppb	28.26	1.00	
118	Sn	115	1	0.043	ppb	21.24	1.00	
121	Sb	115	1	0.020	ppb	6.34	1.00	
137	Ba	115	1	0.012	ppb	18.62	1.00	
205	Tl	165	1	0.015	ppb	11.91	1.00	
208	Pb	165	1	0.011	ppb	16.96	1.00	
232	Th	165	1	0.027	ppb	14.19	1.00	
238	U	165	1	0.013	ppb	2.21	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	584588	0.32	585126	99.9	30 - 120	
45	Sc	1	2708184	0.65	2674809	101.2	30 - 120	
72	Ge	1	1574769	0.31	1557492	101.1	30 - 120	
115	In	1	4529834	0.90	4523827	100.1	30 - 120	
165	Ho	1	8983576	0.10	9084802	98.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\043WASH.D\043WASH.D#
Date Acquired:	Nov 16 2011 01:17 pm
Operator:	TEL
Sample Name:	LLICV-1131923
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.094	ppb	5.20	1.30	
51	V	72	1	5.097	ppb	1.74	6.50	
52	Cr	72	1	2.143	ppb	1.37	2.60	
55	Mn	72	1	1.113	ppb	1.41	1.30	
59	Co	72	1	1.048	ppb	1.76	1.30	
60	Ni	72	1	2.103	ppb	1.14	2.60	
63	Cu	72	1	2.066	ppb	2.72	2.60	
66	Zn	72	1	10.410	ppb	1.05	13.00	
75	As	72	1	5.378	ppb	1.52	6.50	
78	Se	72	1	5.575	ppb	1.70	6.50	
95	Mo	72	1	1.982	ppb	2.65	2.60	
107	Ag	115	1	5.183	ppb	0.92	6.50	
111	Cd	115	1	1.071	ppb	3.59	1.30	
118	Sn	115	1	10.250	ppb	1.28	13.00	
121	Sb	115	1	1.992	ppb	1.24	2.60	
137	Ba	115	1	1.031	ppb	2.91	1.30	
205	Tl	165	1	1.069	ppb	0.70	1.30	
208	Pb	165	1	1.032	ppb	0.55	1.30	
232	Th	165	1	2.078	ppb	1.81	2.60	
238	U	165	1	1.031	ppb	1.12	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	584042	1.78	585126	99.8	30 - 120	
45	Sc	1	2729860	1.02	2674809	102.1	30 - 120	
72	Ge	1	1579120	1.14	1557492	101.4	30 - 120	
115	In	1	4593985	1.26	4523827	101.6	30 - 120	
165	Ho	1	9157342	0.08	9084802	100.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\044_BLK.D\044_BLK.D#
Date Acquired:	Nov 16 2011 01:20 pm
Operator:	TEL
Sample Name:	mb 280-96209/1-b
Misc Info:	BLANK 96273 6020 DoD4
Vial Number:	2307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	511.82	2.00	
51	V	72	1	0.023	ppb	31.28	2.00	
52	Cr	72	1	0.099	ppb	1.96	2.00	
55	Mn	72	1	0.158	ppb	3.53	2.00	
59	Co	72	1	0.002	ppb	33.97	2.00	
60	Ni	72	1	0.003	ppb	79.43	2.00	
63	Cu	72	1	0.039	ppb	32.48	2.00	
66	Zn	72	1	1.085	ppb	2.23	2.00	
75	As	72	1	0.018	ppb	37.46	2.00	
78	Se	72	1	-0.010	ppb	899.80	2.00	
95	Mo	72	1	0.029	ppb	23.14	2.00	
107	Ag	115	1	0.003	ppb	32.75	2.00	
111	Cd	115	1	-0.001	ppb	329.29	2.00	
118	Sn	115	1	0.049	ppb	13.95	2.00	
121	Sb	115	1	0.002	ppb	11.74	2.00	
137	Ba	115	1	0.022	ppb	13.18	2.00	
205	Tl	165	1	0.004	ppb	17.35	2.00	
208	Pb	165	1	0.005	ppb	8.46	2.00	
232	Th	165	1	0.011	ppb	19.86	2.00	
238	U	165	1	0.002	ppb	5.03	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	580232	0.85	585126	99.2	30 - 120	
45	Sc	1	2700644	0.85	2674809	101.0	30 - 120	
72	Ge	1	1578367	2.40	1557492	101.3	30 - 120	
115	In	1	4558848	1.51	4523827	100.8	30 - 120	
165	Ho	1	9068410	0.35	9084802	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\045_LCS.D\045_LCS.D#
Date Acquired:	Nov 16 2011 01:23 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-96209/2-b
Misc Info:	LCS
Vial Number:	2308
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	44.20	2.32	40	110.5	80 - 120	
51	V	72	1	42.82	3.09	40	107.1	80 - 120	
52	Cr	72	1	42.35	3.37	40	105.9	80 - 120	
55	Mn	72	1	42.35	2.07	40	105.9	80 - 120	
59	Co	72	1	42.73	0.74	40	106.8	80 - 120	
60	Ni	72	1	42.08	1.15	40	105.2	80 - 120	
63	Cu	72	1	41.79	0.84	40	104.5	80 - 120	
66	Zn	72	1	43.82	1.71	40	109.6	80 - 120	
75	As	72	1	42.95	1.75	40	107.4	80 - 120	
78	Se	72	1	45.57	5.10	40	113.9	80 - 120	
95	Mo	72	1	41.09	1.67	40	102.7	80 - 120	
107	Ag	115	1	43.26	1.34	40	108.2	80 - 120	
111	Cd	115	1	42.78	1.79	40	107.0	80 - 120	
118	Sn	115	1	41.07	1.36	40	102.7	80 - 120	
121	Sb	115	1	41.24	1.26	40	103.1	80 - 120	
137	Ba	115	1	42.86	2.20	40	107.2	80 - 120	
205	Tl	165	1	43.35	0.92	40	108.4	80 - 120	
208	Pb	165	1	42.38	0.81	40	106.0	80 - 120	
232	Th	165	1	42.77	0.70	40	106.9	80 - 120	
238	U	165	1	43.17	0.21	40	107.9	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	577594	1.49	585126	98.7	30 - 120	
45	Sc	1	2723365	1.61	2674809	101.8	30 - 120	
72	Ge	1	1585940	1.63	1557492	101.8	30 - 120	
115	In	1	4529229	1.44	4523827	100.1	30 - 120	
165	Ho	1	9143550	0.98	9084802	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\046SMPL.D\046SMPL.D#
Date Acquired: Nov 16 2011 01:26 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22514-c-23-b
Misc Info:
Vial Number: 2309
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	72.00	3600	
51	V	72	1	0.31	0.31	ppb	11.49	3600	
52	Cr	72	1	1.06	1.06	ppb	4.76	3600	
55	Mn	72	1	375.30	375.30	ppb	1.25	18000	
59	Co	72	1	5.58	5.58	ppb	0.52	3600	
60	Ni	72	1	10.37	10.37	ppb	1.65	3600	
63	Cu	72	1	0.93	0.93	ppb	1.16	3600	
66	Zn	72	1	8.98	8.98	ppb	0.32	3600	
75	As	72	1	0.28	0.28	ppb	9.59	3600	
78	Se	72	1	9.91	9.91	ppb	3.09	3600	
95	Mo	72	1	0.86	0.86	ppb	3.30	3600	
107	Ag	115	1	0.01	0.01	ppb	28.14	3600	
111	Cd	115	1	0.21	0.21	ppb	9.88	3600	
118	Sn	115	1	0.08	0.08	ppb	11.62	3600	
121	Sb	115	1	0.28	0.28	ppb	5.18	3600	
137	Ba	115	1	306.90	306.90	ppb	0.27	3600	
205	Tl	165	1	0.04	0.04	ppb	7.76	3600	
208	Pb	165	1	0.05	0.05	ppb	18.91	3600	
232	Th	165	1	0.04	0.04	ppb	16.84	1000	
238	U	165	1	3.62	3.62	ppb	0.33	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	511872	1.21	585126	87.5	30 - 120	
45	Sc	1	2489302	2.10	2674809	93.1	30 - 120	
72	Ge	1	1344875	0.67	1557492	86.3	30 - 120	
115	In	1	3950910	0.57	4523827	87.3	30 - 120	
165	Ho	1	8142327	0.20	9084802	89.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\047AREF.D\047AREF.D#
Date Acquired:	Nov 16 2011 01:29 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22514-c-24-b
Misc Info:	
Vial Number:	2310
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	212.09	3600	
51	V	72	1	0.00	0.00	ppb	422380.00	3600	
52	Cr	72	1	0.24	0.24	ppb	4.09	3600	
55	Mn	72	1	17,240.00	17240.00	ppb	0.20	18000	
59	Co	72	1	10.94	10.94	ppb	0.08	3600	
60	Ni	72	1	11.69	11.69	ppb	0.41	3600	
63	Cu	72	1	0.88	0.88	ppb	2.71	3600	
66	Zn	72	1	19.53	19.53	ppb	1.37	3600	
75	As	72	1	5.25	5.25	ppb	0.07	3600	
78	Se	72	1	0.27	0.27	ppb	82.61	3600	
95	Mo	72	1	0.44	0.44	ppb	6.07	3600	
107	Ag	115	1	0.00	0.00	ppb	63.16	3600	
111	Cd	115	1	0.03	0.03	ppb	19.40	3600	
118	Sn	115	1	0.07	0.07	ppb	23.21	3600	
121	Sb	115	1	0.05	0.05	ppb	13.89	3600	
137	Ba	115	1	913.60	913.60	ppb	1.73	3600	
205	Tl	165	1	0.04	0.04	ppb	0.62	3600	
208	Pb	165	1	0.00	0.00	ppb	35.95	3600	
232	Th	165	1	0.02	0.02	ppb	10.65	1000	
238	U	165	1	0.77	0.77	ppb	1.71	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	463905	1.17	585126	79.3	30 - 120	
45	Sc	1	2301043	0.73	2674809	86.0	30 - 120	
72	Ge	1	1316094	0.42	1557492	84.5	30 - 120	
115	In	1	3829257	1.27	4523827	84.6	30 - 120	
165	Ho	1	7731443	0.28	9084802	85.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\048SDIL.D\048SDIL.D#	
Date Acquired:	Nov 16 2011 01:32 pm	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	TEL	**ISTD: Pass**
Sample Name:	280-22514-c-24-b SD@5	
Misc Info:	SERIAL DILUTION	
Vial Number:	2311	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 16 2011 11:25 am	
Sample Type:	SDIL	
Dilution Factor:	1.00	

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\047AREF.D\047AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.00	ppb	528.23	0.00	111.4	90 - 110	
51	V	72	1	0.00	ppb	493.24	0.00	224414.6	90 - 110	
52	Cr	72	1	0.05	ppb	8.76	0.05	96.8	90 - 110	
55	Mn	72	1	3483.00	ppb	0.49	3448.00	101.0	90 - 110	
59	Co	72	1	2.24	ppb	1.25	2.19	102.2	90 - 110	
60	Ni	72	1	2.34	ppb	0.57	2.34	100.2	90 - 110	
63	Cu	72	1	0.22	ppb	4.16	0.18	127.0	90 - 110	
66	Zn	72	1	4.29	ppb	0.39	3.91	109.8	90 - 110	
75	As	72	1	1.06	ppb	0.88	1.05	101.0	90 - 110	
78	Se	72	1	0.17	ppb	40.05	0.05	321.5	90 - 110	
95	Mo	72	1	0.10	ppb	19.07	0.09	110.0	90 - 110	
107	Ag	115	1	0.00	ppb	83.82	0.00	652.1	90 - 110	
111	Cd	115	1	0.01	ppb	108.94	0.01	151.2	90 - 110	
118	Sn	115	1	0.09	ppb	16.92	0.01	637.0	90 - 110	
121	Sb	115	1	0.01	ppb	14.81	0.01	104.3	90 - 110	
137	Ba	115	1	181.70	ppb	1.72	182.72	99.4	90 - 110	
205	Tl	165	1	0.01	ppb	2.72	0.01	132.4	90 - 110	
208	Pb	165	1	0.00	ppb	16.81	0.00	514.8	90 - 110	
232	Th	165	1	0.01	ppb	11.01	0.00	233.4	90 - 110	
238	U	165	1	0.16	ppb	2.32	0.15	102.6	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489152	0.43	585126	83.6	30 - 120	
45	Sc	1	2460270	0.35	2674809	92.0	30 - 120	
72	Ge	1	1440888	0.51	1557492	92.5	30 - 120	
115	In	1	4197346	1.39	4523827	92.8	30 - 120	
165	Ho	1	8319707	0.40	9084802	91.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\049PDS.D\049PDS.D#
Date Acquired:	Nov 16 2011 01:35 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22514-c-24-b PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	2312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	207.00	0.01	ppb	0.69	200	103.5	75 - 125	
51 V	72	1	200.70	0.00	ppb	0.81	200	100.3	75 - 125	
52 Cr	72	1	193.90	0.24	ppb	0.33	200	96.8	75 - 125	
55 Mn	72	1	16950.00	17240.00	ppb	0.64	200	97.2	75 - 125	
59 Co	72	1	197.70	10.94	ppb	0.48	200	93.7	75 - 125	
60 Ni	72	1	204.50	11.69	ppb	0.60	200	96.6	75 - 125	
63 Cu	72	1	180.40	0.88	ppb	0.79	200	89.8	75 - 125	
66 Zn	72	1	201.00	19.53	ppb	0.51	200	91.6	75 - 125	
75 As	72	1	210.30	5.25	ppb	0.83	200	102.5	75 - 125	
78 Se	72	1	200.30	0.27	ppb	0.68	200	100.0	75 - 125	
95 Mo	72	1	209.30	0.44	ppb	1.36	200	104.4	75 - 125	
107 Ag	115	1	45.67	0.00	ppb	1.26	50	91.3	75 - 125	
111 Cd	115	1	194.90	0.03	ppb	0.69	200	97.4	75 - 125	
118 Sn	115	1	197.60	0.07	ppb	0.98	200	98.8	75 - 125	
121 Sb	115	1	198.90	0.05	ppb	0.87	200	99.4	75 - 125	
137 Ba	115	1	1089.00	913.60	ppb	0.72	200	97.8	75 - 125	
205 Tl	165	1	185.60	0.04	ppb	1.78	200	92.8	75 - 125	
208 Pb	165	1	181.30	0.00	ppb	0.71	200	90.6	75 - 125	
232 Th	165	1	0.06	0.02	ppb	4.45	200	0.0	75 - 125	
238 U	165	1	192.70	0.77	ppb	1.50	200	96.0	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	445542	0.21	585126	76.1	30 - 120	
45 Sc	1	2239845	0.28	2674809	83.7	30 - 120	
72 Ge	1	1285063	0.46	1557492	82.5	30 - 120	
115 In	1	3741418	0.32	4523827	82.7	30 - 120	
165 Ho	1	7638025	1.25	9084802	84.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\050_MS.D\050_MS.D#		
Date Acquired:	Nov 16 2011 01:37 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	TEL	ISTD:	Pass
Sample Name:	280-22514-c-24-c ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	2401		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 11:25 am		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	45.58	0.01	ppb	3.77	40	113.9	50 - 150	
51 V	72	1	44.36	0.00	ppb	2.63	40	110.9	50 - 150	
52 Cr	72	1	42.61	0.24	ppb	3.38	40	105.9	50 - 150	
55 Mn	72	1	17700.00	17240.00	ppb	3.12	40	102.4	50 - 150	
59 Co	72	1	54.68	10.94	ppb	1.68	40	107.3	50 - 150	
60 Ni	72	1	52.43	11.69	ppb	3.92	40	101.4	50 - 150	
63 Cu	72	1	39.53	0.88	ppb	3.58	40	96.7	50 - 150	
66 Zn	72	1	60.34	19.53	ppb	3.30	40	101.4	50 - 150	
75 As	72	1	50.15	5.25	ppb	3.06	40	110.8	50 - 150	
78 Se	72	1	44.87	0.27	ppb	6.84	40	111.4	50 - 150	
95 Mo	72	1	45.59	0.44	ppb	2.65	40	112.7	50 - 150	
107 Ag	115	1	39.39	0.00	ppb	3.23	40	98.5	50 - 150	
111 Cd	115	1	42.32	0.03	ppb	2.54	40	105.7	50 - 150	
118 Sn	115	1	42.42	0.07	ppb	3.13	40	105.9	50 - 150	
121 Sb	115	1	42.91	0.05	ppb	2.71	40	107.1	50 - 150	
137 Ba	115	1	990.20	913.60	ppb	3.16	40	103.8	50 - 150	
205 Tl	165	1	43.01	0.04	ppb	1.80	40	107.4	50 - 150	
208 Pb	165	1	40.70	0.00	ppb	2.74	40	101.7	50 - 150	
232 Th	165	1	44.42	0.02	ppb	3.78	40	111.0	50 - 150	
238 U	165	1	45.21	0.77	ppb	3.86	40	110.9	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	427953	2.39	585126	73.1	30 - 120	
45 Sc	1	2175418	1.79	2674809	81.3	30 - 120	
72 Ge	1	1255159	2.69	1557492	80.6	30 - 120	
115 In	1	3640379	2.58	4523827	80.5	30 - 120	
165 Ho	1	7361408	2.79	9084802	81.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\051_MSD.D\051_MSD.D#
Date Acquired:	Nov 16 2011 01:40 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22514-c-24-d msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	2402
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\050_MS.D\050_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	43.34	ppb	1.51	45.58	5.04	20	
51	V	72	1	42.44	ppb	0.86	44.36	4.42	20	
52	Cr	72	1	40.35	ppb	0.43	42.61	5.45	20	
55	Mn	72	1	17020.00	ppb	0.35	17700.00	3.92	20	
59	Co	72	1	52.20	ppb	0.69	54.68	4.64	20	
60	Ni	72	1	49.63	ppb	0.22	52.43	5.49	20	
63	Cu	72	1	37.43	ppb	0.23	39.53	5.46	20	
66	Zn	72	1	57.39	ppb	0.53	60.34	5.01	20	
75	As	72	1	47.50	ppb	0.14	50.15	5.43	20	
78	Se	72	1	41.78	ppb	5.57	44.87	7.13	20	
95	Mo	72	1	43.60	ppb	0.70	45.59	4.46	20	
107	Ag	115	1	37.51	ppb	0.31	39.39	4.89	20	
111	Cd	115	1	40.15	ppb	0.26	42.32	5.26	20	
118	Sn	115	1	40.42	ppb	0.72	42.42	4.83	20	
121	Sb	115	1	40.63	ppb	0.54	42.91	5.46	20	
137	Ba	115	1	961.50	ppb	0.60	990.20	2.94	20	
205	Tl	165	1	40.34	ppb	1.01	43.01	6.41	20	
208	Pb	165	1	38.43	ppb	1.38	40.70	5.74	20	
232	Th	165	1	42.06	ppb	1.71	44.42	5.46	20	
238	U	165	1	42.44	ppb	1.62	45.21	6.32	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	427281	0.67	585126	73.0	30 - 120	
45	Sc	1	2161450	0.65	2674809	80.8	30 - 120	
72	Ge	1	1259810	0.50	1557492	80.9	30 - 120	
115	In	1	3658870	0.15	4523827	80.9	30 - 120	
165	Ho	1	7365130	1.56	9084802	81.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\052_CCV.D\052_CCV.D#
Date Acquired: Nov 16 2011 01:43 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.47	ppb	2.27	50	102.9	90 - 110	
51	V	72	1	50.40	ppb	1.79	50	100.8	90 - 110	
52	Cr	72	1	49.91	ppb	1.72	50	99.8	90 - 110	
55	Mn	72	1	51.39	ppb	1.21	50	102.8	90 - 110	
59	Co	72	1	50.57	ppb	1.11	50	101.1	90 - 110	
60	Ni	72	1	49.99	ppb	0.91	50	100.0	90 - 110	
63	Cu	72	1	49.72	ppb	0.49	50	99.4	90 - 110	
66	Zn	72	1	49.57	ppb	0.06	50	99.1	90 - 110	
75	As	72	1	50.04	ppb	0.21	50	100.1	90 - 110	
78	Se	72	1	51.99	ppb	0.52	50	104.0	90 - 110	
95	Mo	72	1	49.41	ppb	0.76	50	98.8	90 - 110	
107	Ag	115	1	49.35	ppb	1.22	50	98.7	90 - 110	
111	Cd	115	1	48.59	ppb	1.43	50	97.2	90 - 110	
118	Sn	115	1	47.62	ppb	0.49	50	95.2	90 - 110	
121	Sb	115	1	47.43	ppb	0.80	50	94.9	90 - 110	
137	Ba	115	1	49.29	ppb	1.16	50	98.6	90 - 110	
205	Tl	165	1	50.81	ppb	0.22	50	101.6	90 - 110	
208	Pb	165	1	49.52	ppb	2.10	50	99.0	90 - 110	
232	Th	165	1	50.73	ppb	1.30	50	101.5	90 - 110	
238	U	165	1	50.67	ppb	2.07	50	101.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	472849	0.37	585126	80.8	30 - 120	
45	Sc	1	2394142	0.43	2674809	89.5	30 - 120	
72	Ge	1	1430723	0.48	1557492	91.9	30 - 120	
115	In	1	4272615	0.69	4523827	94.4	30 - 120	
165	Ho	1	8431879	0.92	9084802	92.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\053_CCB.D\053_CCB.D#
Date Acquired:	Nov 16 2011 01:46 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.003	ppb	284.40	1.00	
51	V	72	1	0.001	ppb	1440.20	1.00	
52	Cr	72	1	-0.002	ppb	368.31	1.00	
55	Mn	72	1	0.760	ppb	5.44	1.00	
59	Co	72	1	0.007	ppb	52.23	1.00	
60	Ni	72	1	0.022	ppb	21.66	1.00	
63	Cu	72	1	0.008	ppb	20.44	1.00	
66	Zn	72	1	0.016	ppb	100.99	1.00	
75	As	72	1	0.021	ppb	33.32	1.00	
78	Se	72	1	0.069	ppb	85.01	1.00	
95	Mo	72	1	0.014	ppb	33.50	1.00	
107	Ag	115	1	0.009	ppb	11.07	1.00	
111	Cd	115	1	0.001	ppb	40.79	1.00	
118	Sn	115	1	0.050	ppb	11.87	1.00	
121	Sb	115	1	0.017	ppb	15.07	1.00	
137	Ba	115	1	0.054	ppb	18.00	1.00	
205	Tl	165	1	0.018	ppb	14.29	1.00	
208	Pb	165	1	0.009	ppb	4.01	1.00	
232	Th	165	1	0.020	ppb	9.99	1.00	
238	U	165	1	0.013	ppb	4.88	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	475456	1.28	585126	81.3	30 - 120	
45	Sc	1	2432312	1.83	2674809	90.9	30 - 120	
72	Ge	1	1469167	1.06	1557492	94.3	30 - 120	
115	In	1	4212524	0.89	4523827	93.1	30 - 120	
165	Ho	1	8340865	0.96	9084802	91.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\054WASH.D\054WASH.D#
Date Acquired: Nov 16 2011 01:49 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.002 ppb	478.35	1.30	
51	V	72	1	0.007 ppb	143.33	6.50	
52	Cr	72	1	0.018 ppb	25.90	2.60	
55	Mn	72	1	0.558 ppb	5.84	1.30	
59	Co	72	1	0.003 ppb	9.39	1.30	
60	Ni	72	1	0.000 ppb	993.89	2.60	
63	Cu	72	1	-0.002 ppb	201.42	2.60	
66	Zn	72	1	-0.013 ppb	69.87	13.00	
75	As	72	1	0.015 ppb	7.03	6.50	
78	Se	72	1	0.034 ppb	234.76	6.50	
95	Mo	72	1	0.005 ppb	85.51	2.60	
107	Ag	115	1	0.003 ppb	41.82	6.50	
111	Cd	115	1	0.002 ppb	60.92	1.30	
118	Sn	115	1	0.019 ppb	42.14	13.00	
121	Sb	115	1	0.008 ppb	11.17	2.60	
137	Ba	115	1	0.032 ppb	12.25	1.30	
205	Tl	165	1	0.010 ppb	8.52	1.30	
208	Pb	165	1	0.002 ppb	19.45	1.30	
232	Th	165	1	0.014 ppb	18.25	2.60	
238	U	165	1	0.005 ppb	11.80	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	477912	0.38	585126	81.7	30 - 120	
45	Sc	1	2516494	1.74	2674809	94.1	30 - 120	
72	Ge	1	1461654	0.38	1557492	93.8	30 - 120	
115	In	1	4322811	1.03	4523827	95.6	30 - 120	
165	Ho	1	8511836	0.48	9084802	93.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\055WASH.D\055WASH.D#
Date Acquired: Nov 16 2011 01:52 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.007	ppb	382.39	1.30	
51	V	72	1	0.006	ppb	214.57	6.50	
52	Cr	72	1	0.015	ppb	41.41	2.60	
55	Mn	72	1	0.459	ppb	3.66	1.30	
59	Co	72	1	0.003	ppb	66.30	1.30	
60	Ni	72	1	0.002	ppb	102.74	2.60	
63	Cu	72	1	-0.003	ppb	168.59	2.60	
66	Zn	72	1	-0.012	ppb	57.80	13.00	
75	As	72	1	0.002	ppb	149.49	6.50	
78	Se	72	1	0.438	ppb	64.54	6.50	
95	Mo	72	1	0.000	ppb	1683.90	2.60	
107	Ag	115	1	0.001	ppb	14.47	6.50	
111	Cd	115	1	-0.002	ppb	87.67	1.30	
118	Sn	115	1	0.014	ppb	66.31	13.00	
121	Sb	115	1	0.003	ppb	94.75	2.60	
137	Ba	115	1	0.021	ppb	21.13	1.30	
205	Tl	165	1	0.005	ppb	7.39	1.30	
208	Pb	165	1	0.001	ppb	45.22	1.30	
232	Th	165	1	0.006	ppb	7.62	2.60	
238	U	165	1	0.003	ppb	15.47	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	482587	0.57	585126	82.5	30 - 120	
45	Sc	1	2530019	0.97	2674809	94.6	30 - 120	
72	Ge	1	1463198	1.45	1557492	93.9	30 - 120	
115	In	1	4343471	1.79	4523827	96.0	30 - 120	
165	Ho	1	8421348	0.46	9084802	92.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\056_CCV.D\056_CCV.D#
Date Acquired: Nov 16 2011 01:55 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.34	ppb	4.05	50	104.7	90 - 110	
51	V	72	1	50.73	ppb	1.13	50	101.5	90 - 110	
52	Cr	72	1	50.00	ppb	1.62	50	100.0	90 - 110	
55	Mn	72	1	50.24	ppb	0.70	50	100.5	90 - 110	
59	Co	72	1	50.72	ppb	2.11	50	101.4	90 - 110	
60	Ni	72	1	49.53	ppb	1.32	50	99.1	90 - 110	
63	Cu	72	1	50.62	ppb	0.61	50	101.2	90 - 110	
66	Zn	72	1	49.52	ppb	0.92	50	99.0	90 - 110	
75	As	72	1	50.74	ppb	0.66	50	101.5	90 - 110	
78	Se	72	1	52.00	ppb	1.58	50	104.0	90 - 110	
95	Mo	72	1	48.98	ppb	1.52	50	98.0	90 - 110	
107	Ag	115	1	50.68	ppb	1.56	50	101.4	90 - 110	
111	Cd	115	1	49.84	ppb	1.59	50	99.7	90 - 110	
118	Sn	115	1	48.18	ppb	1.32	50	96.4	90 - 110	
121	Sb	115	1	48.30	ppb	1.73	50	96.6	90 - 110	
137	Ba	115	1	50.12	ppb	2.44	50	100.2	90 - 110	
205	Tl	165	1	50.91	ppb	1.25	50	101.8	90 - 110	
208	Pb	165	1	50.46	ppb	1.19	50	100.9	90 - 110	
232	Th	165	1	51.27	ppb	1.22	50	102.5	90 - 110	
238	U	165	1	50.33	ppb	1.06	50	100.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	481885	1.04	585126	82.4	30 - 120	
45	Sc	1	2497528	0.52	2674809	93.4	30 - 120	
72	Ge	1	1472306	1.00	1557492	94.5	30 - 120	
115	In	1	4298872	1.35	4523827	95.0	30 - 120	
165	Ho	1	8469734	0.87	9084802	93.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\057_CCB.D\057_CCB.D#
Date Acquired:	Nov 16 2011 01:58 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.002	ppb	488.83	1.00	
51	V	72	1	0.003	ppb	74.78	1.00	
52	Cr	72	1	0.000	ppb	2187.40	1.00	
55	Mn	72	1	0.306	ppb	6.64	1.00	
59	Co	72	1	0.006	ppb	34.15	1.00	
60	Ni	72	1	0.009	ppb	52.17	1.00	
63	Cu	72	1	0.006	ppb	72.80	1.00	
66	Zn	72	1	0.015	ppb	32.19	1.00	
75	As	72	1	0.014	ppb	74.48	1.00	
78	Se	72	1	0.102	ppb	322.31	1.00	
95	Mo	72	1	0.007	ppb	101.13	1.00	
107	Ag	115	1	0.009	ppb	31.18	1.00	
111	Cd	115	1	0.004	ppb	117.54	1.00	
118	Sn	115	1	0.034	ppb	19.81	1.00	
121	Sb	115	1	0.008	ppb	18.01	1.00	
137	Ba	115	1	0.018	ppb	4.22	1.00	
205	Tl	165	1	0.015	ppb	5.73	1.00	
208	Pb	165	1	0.007	ppb	6.30	1.00	
232	Th	165	1	0.026	ppb	4.87	1.00	
238	U	165	1	0.009	ppb	10.62	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	480136	0.89	585126	82.1	30 - 120	
45	Sc	1	2527089	0.61	2674809	94.5	30 - 120	
72	Ge	1	1491565	1.50	1557492	95.8	30 - 120	
115	In	1	4298758	0.89	4523827	95.0	30 - 120	
165	Ho	1	8550399	0.92	9084802	94.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\058_BLK.D\058_BLK.D#
Date Acquired: Nov 16 2011 02:01 pm
Operator: TEL
Sample Name: mb 280-94822/1-a
Misc Info: BLANK 94822 6020 DoD4
Vial Number: 2403
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.006 ppb	399.43	2.00	
51	V	72	1	0.006 ppb	173.49	2.00	
52	Cr	72	1	0.028 ppb	21.34	2.00	
55	Mn	72	1	0.367 ppb	5.11	2.00	
59	Co	72	1	0.004 ppb	40.01	2.00	
60	Ni	72	1	0.025 ppb	48.69	2.00	
63	Cu	72	1	0.045 ppb	18.14	2.00	
66	Zn	72	1	1.135 ppb	2.57	2.00	
75	As	72	1	0.007 ppb	74.39	2.00	
78	Se	72	1	-0.009 ppb	1471.40	2.00	
95	Mo	72	1	0.001 ppb	199.63	2.00	
107	Ag	115	1	0.003 ppb	26.84	2.00	
111	Cd	115	1	0.003 ppb	6.42	2.00	
118	Sn	115	1	0.057 ppb	8.45	2.00	
121	Sb	115	1	0.004 ppb	30.67	2.00	
137	Ba	115	1	0.034 ppb	33.13	2.00	
205	Tl	165	1	0.019 ppb	21.80	2.00	
208	Pb	165	1	0.014 ppb	14.37	2.00	
232	Th	165	1	0.018 ppb	14.02	2.00	
238	U	165	1	0.004 ppb	5.82	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496208	0.72	585126	84.8	30 - 120	
45	Sc	1	2574594	0.61	2674809	96.3	30 - 120	
72	Ge	1	1480636	0.37	1557492	95.1	30 - 120	
115	In	1	4413085	0.47	4523827	97.6	30 - 120	
165	Ho	1	8604209	0.18	9084802	94.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\059_LCS.D\059_LCS.D#
Date Acquired: Nov 16 2011 02:04 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: lcs 280-94822/2-a
Misc Info: LCS
Vial Number: 2404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	41.76	0.32	40	104.4	80 - 120	
51	V	72	1	41.97	1.00	40	104.9	80 - 120	
52	Cr	72	1	41.83	0.64	40	104.6	80 - 120	
55	Mn	72	1	41.31	2.92	40	103.3	80 - 120	
59	Co	72	1	41.91	0.99	40	104.8	80 - 120	
60	Ni	72	1	41.29	1.78	40	103.2	80 - 120	
63	Cu	72	1	41.09	1.92	40	102.7	80 - 120	
66	Zn	72	1	40.27	1.19	40	100.7	80 - 120	
75	As	72	1	40.30	1.10	40	100.8	80 - 120	
78	Se	72	1	41.01	2.63	40	102.5	80 - 120	
95	Mo	72	1	41.48	1.60	40	103.7	80 - 120	
107	Ag	115	1	41.97	1.62	40	104.9	80 - 120	
111	Cd	115	1	39.86	0.83	40	99.7	80 - 120	
118	Sn	115	1	40.60	0.72	40	101.5	80 - 120	
121	Sb	115	1	39.10	0.82	40	97.8	80 - 120	
137	Ba	115	1	41.84	0.81	40	104.6	80 - 120	
205	Tl	165	1	42.41	1.51	40	106.0	80 - 120	
208	Pb	165	1	41.12	0.86	40	102.8	80 - 120	
232	Th	165	1	41.98	0.68	40	105.0	80 - 120	
238	U	165	1	41.75	0.30	40	104.4	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	491398	1.38	585126	84.0	30 - 120	
45	Sc	1	2548252	0.74	2674809	95.3	30 - 120	
72	Ge	1	1471518	1.97	1557492	94.5	30 - 120	
115	In	1	4302458	1.34	4523827	95.1	30 - 120	
165	Ho	1	8565767	1.12	9084802	94.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\060SMPL.D\060SMPL.D#
Date Acquired:	Nov 16 2011 02:06 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-21988-a-12-a
Misc Info:	
Vial Number:	2405
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	254.78	3600	
51	V	72	1	0.05	0.05	ppb	26.66	3600	
52	Cr	72	1	0.15	0.15	ppb	10.66	3600	
55	Mn	72	1	0.69	0.69	ppb	2.85	18000	
59	Co	72	1	0.01	0.01	ppb	33.58	3600	
60	Ni	72	1	0.06	0.06	ppb	16.78	3600	
63	Cu	72	1	0.27	0.27	ppb	0.54	3600	
66	Zn	72	1	1.99	1.99	ppb	1.19	3600	
75	As	72	1	0.02	0.02	ppb	36.49	3600	
78	Se	72	1	0.26	0.26	ppb	129.80	3600	
95	Mo	72	1	0.15	0.15	ppb	5.17	3600	
107	Ag	115	1	0.01	0.01	ppb	6.41	3600	
111	Cd	115	1	0.00	0.00	ppb	204.14	3600	
118	Sn	115	1	0.09	0.09	ppb	8.79	3600	
121	Sb	115	1	0.03	0.03	ppb	16.45	3600	
137	Ba	115	1	0.16	0.16	ppb	2.14	3600	
205	Tl	165	1	0.02	0.02	ppb	9.31	3600	
208	Pb	165	1	0.13	0.13	ppb	1.14	3600	
232	Th	165	1	0.04	0.04	ppb	7.28	1000	
238	U	165	1	0.01	0.01	ppb	2.89	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	494612	1.42	585126	84.5	30 - 120	
45	Sc	1	2586031	1.15	2674809	96.7	30 - 120	
72	Ge	1	1487696	0.24	1557492	95.5	30 - 120	
115	In	1	4357427	0.36	4523827	96.3	30 - 120	
165	Ho	1	8640809	0.90	9084802	95.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\061SMPL.D\061SMPL.D#
Date Acquired:	Nov 16 2011 02:09 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22044-c-1-b
Misc Info:	
Vial Number:	2406
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	231.14	3600	
51	V	72	1	0.09	0.09	ppb	28.52	3600	
52	Cr	72	1	0.62	0.62	ppb	0.83	3600	
55	Mn	72	1	0.88	0.88	ppb	2.60	18000	
59	Co	72	1	0.01	0.01	ppb	25.84	3600	
60	Ni	72	1	0.13	0.13	ppb	11.55	3600	
63	Cu	72	1	0.19	0.19	ppb	3.32	3600	
66	Zn	72	1	2.27	2.27	ppb	1.58	3600	
75	As	72	1	0.01	0.01	ppb	14.51	3600	
78	Se	72	1	0.18	0.18	ppb	163.96	3600	
95	Mo	72	1	0.38	0.38	ppb	1.83	3600	
107	Ag	115	1	0.00	0.00	ppb	69.82	3600	
111	Cd	115	1	0.00	0.00	ppb	128.49	3600	
118	Sn	115	1	0.23	0.23	ppb	5.47	3600	
121	Sb	115	1	0.02	0.02	ppb	19.69	3600	
137	Ba	115	1	0.21	0.21	ppb	15.22	3600	
205	Tl	165	1	0.01	0.01	ppb	5.54	3600	
208	Pb	165	1	0.02	0.02	ppb	5.91	3600	
232	Th	165	1	0.01	0.01	ppb	15.33	1000	
238	U	165	1	0.00	0.00	ppb	30.38	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	495916	0.83	585126	84.8	30 - 120	
45	Sc	1	2560763	1.10	2674809	95.7	30 - 120	
72	Ge	1	1495603	0.86	1557492	96.0	30 - 120	
115	In	1	4329851	0.39	4523827	95.7	30 - 120	
165	Ho	1	8624671	0.54	9084802	94.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\062SMPL.D\062SMPL.D#
Date Acquired:	Nov 16 2011 02:12 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22231-e-1-a
Misc Info:	
Vial Number:	2407
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	247.48	3600	
51	V	72	1	0.04	0.04	ppb	36.08	3600	
52	Cr	72	1	0.20	0.20	ppb	9.70	3600	
55	Mn	72	1	0.99	0.99	ppb	3.48	18000	
59	Co	72	1	0.01	0.01	ppb	22.66	3600	
60	Ni	72	1	0.12	0.12	ppb	8.48	3600	
63	Cu	72	1	0.13	0.13	ppb	13.93	3600	
66	Zn	72	1	1.85	1.85	ppb	2.56	3600	
75	As	72	1	0.02	0.02	ppb	7.37	3600	
78	Se	72	1	0.00	0.00	ppb	6506.00	3600	
95	Mo	72	1	0.10	0.10	ppb	2.47	3600	
107	Ag	115	1	0.00	0.00	ppb	26.51	3600	
111	Cd	115	1	0.00	0.00	ppb	173.42	3600	
118	Sn	115	1	0.09	0.09	ppb	15.92	3600	
121	Sb	115	1	0.00	0.00	ppb	364.88	3600	
137	Ba	115	1	0.29	0.29	ppb	4.80	3600	
205	Tl	165	1	0.00	0.00	ppb	13.47	3600	
208	Pb	165	1	0.01	0.01	ppb	4.81	3600	
232	Th	165	1	0.01	0.01	ppb	20.72	1000	
238	U	165	1	0.00	0.00	ppb	24.33	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	495863	0.29	585126	84.7	30 - 120	
45	Sc	1	2580829	0.60	2674809	96.5	30 - 120	
72	Ge	1	1486384	1.10	1557492	95.4	30 - 120	
115	In	1	4346849	1.19	4523827	96.1	30 - 120	
165	Ho	1	8645901	0.11	9084802	95.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\063SMPL.D\063SMPL.D#
Date Acquired: Nov 16 2011 02:15 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22231-a-2-a
Misc Info:
Vial Number: 2408
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	252.66	3600	
51	V	72	1	0.04	0.04	ppb	4.18	3600	
52	Cr	72	1	0.06	0.06	ppb	4.07	3600	
55	Mn	72	1	0.94	0.94	ppb	5.79	18000	
59	Co	72	1	0.01	0.01	ppb	10.54	3600	
60	Ni	72	1	0.05	0.05	ppb	35.31	3600	
63	Cu	72	1	0.23	0.23	ppb	7.26	3600	
66	Zn	72	1	1.72	1.72	ppb	0.13	3600	
75	As	72	1	0.02	0.02	ppb	86.28	3600	
78	Se	72	1	0.10	0.10	ppb	276.82	3600	
95	Mo	72	1	0.06	0.06	ppb	10.25	3600	
107	Ag	115	1	0.00	0.00	ppb	75.97	3600	
111	Cd	115	1	0.00	0.00	ppb	761.98	3600	
118	Sn	115	1	0.20	0.20	ppb	7.07	3600	
121	Sb	115	1	0.01	0.01	ppb	59.37	3600	
137	Ba	115	1	0.20	0.20	ppb	2.42	3600	
205	Tl	165	1	0.00	0.00	ppb	29.41	3600	
208	Pb	165	1	0.02	0.02	ppb	2.81	3600	
232	Th	165	1	0.01	0.01	ppb	18.01	1000	
238	U	165	1	0.00	0.00	ppb	92.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	498594	1.25	585126	85.2	30 - 120	
45	Sc	1	2573302	0.61	2674809	96.2	30 - 120	
72	Ge	1	1481211	0.98	1557492	95.1	30 - 120	
115	In	1	4402779	0.91	4523827	97.3	30 - 120	
165	Ho	1	8655709	0.12	9084802	95.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\064SMPL.D\064SMPL.D#
Date Acquired: Nov 16 2011 02:18 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22231-a-3-a
Misc Info:
Vial Number: 2409
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	-0.01	-0.01	ppb	0.00	3600	
51	V	72	1	0.05	0.05	ppb	20.57	3600	
52	Cr	72	1	0.08	0.08	ppb	5.28	3600	
55	Mn	72	1	0.88	0.88	ppb	3.11	18000	
59	Co	72	1	0.02	0.02	ppb	24.05	3600	
60	Ni	72	1	0.11	0.11	ppb	9.87	3600	
63	Cu	72	1	0.25	0.25	ppb	2.10	3600	
66	Zn	72	1	2.22	2.22	ppb	1.34	3600	
75	As	72	1	0.02	0.02	ppb	20.20	3600	
78	Se	72	1	0.22	0.22	ppb	48.75	3600	
95	Mo	72	1	0.08	0.08	ppb	14.48	3600	
107	Ag	115	1	0.00	0.00	ppb	33.92	3600	
111	Cd	115	1	0.01	0.01	ppb	37.09	3600	
118	Sn	115	1	0.17	0.17	ppb	3.61	3600	
121	Sb	115	1	0.00	0.00	ppb	315.44	3600	
137	Ba	115	1	0.59	0.59	ppb	3.46	3600	
205	Tl	165	1	0.00	0.00	ppb	16.89	3600	
208	Pb	165	1	0.07	0.07	ppb	1.47	3600	
232	Th	165	1	0.00	0.00	ppb	14.04	1000	
238	U	165	1	0.00	0.00	ppb	56.77	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	500474	0.76	585126	85.5	30 - 120	
45	Sc	1	2594940	1.17	2674809	97.0	30 - 120	
72	Ge	1	1495603	0.91	1557492	96.0	30 - 120	
115	In	1	4403420	0.66	4523827	97.3	30 - 120	
165	Ho	1	8689695	1.21	9084802	95.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\065SMPL.D\065SMPL.D#
Date Acquired:	Nov 16 2011 02:21 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22231-a-4-a
Misc Info:	
Vial Number:	2410
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	-0.01	-0.01	ppb	0.00	3600	
51	V	72	1	0.04	0.04	ppb	32.45	3600	
52	Cr	72	1	0.11	0.11	ppb	5.90	3600	
55	Mn	72	1	1.00	1.00	ppb	1.04	18000	
59	Co	72	1	0.01	0.01	ppb	9.75	3600	
60	Ni	72	1	0.11	0.11	ppb	6.56	3600	
63	Cu	72	1	0.22	0.22	ppb	3.53	3600	
66	Zn	72	1	2.30	2.30	ppb	0.51	3600	
75	As	72	1	0.03	0.03	ppb	10.90	3600	
78	Se	72	1	0.36	0.36	ppb	80.43	3600	
95	Mo	72	1	0.10	0.10	ppb	9.71	3600	
107	Ag	115	1	0.00	0.00	ppb	114.38	3600	
111	Cd	115	1	0.00	0.00	ppb	599.13	3600	
118	Sn	115	1	0.16	0.16	ppb	9.51	3600	
121	Sb	115	1	0.00	0.00	ppb	462.44	3600	
137	Ba	115	1	0.37	0.37	ppb	1.31	3600	
205	Tl	165	1	0.01	0.01	ppb	14.67	3600	
208	Pb	165	1	0.07	0.07	ppb	1.71	3600	
232	Th	165	1	0.00	0.00	ppb	18.66	1000	
238	U	165	1	0.00	0.00	ppb	14.07	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501165	1.25	585126	85.7	30 - 120	
45	Sc	1	2561709	1.11	2674809	95.8	30 - 120	
72	Ge	1	1483746	1.43	1557492	95.3	30 - 120	
115	In	1	4375782	0.30	4523827	96.7	30 - 120	
165	Ho	1	8677299	0.41	9084802	95.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\066_CCV.D\066_CCV.D#
Date Acquired: Nov 16 2011 02:24 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.76	ppb	1.47	50	103.5	90 - 110	
51	V	72	1	50.19	ppb	0.98	50	100.4	90 - 110	
52	Cr	72	1	49.92	ppb	1.21	50	99.8	90 - 110	
55	Mn	72	1	49.70	ppb	0.95	50	99.4	90 - 110	
59	Co	72	1	50.14	ppb	0.59	50	100.3	90 - 110	
60	Ni	72	1	49.50	ppb	0.76	50	99.0	90 - 110	
63	Cu	72	1	49.92	ppb	1.12	50	99.8	90 - 110	
66	Zn	72	1	49.03	ppb	0.71	50	98.1	90 - 110	
75	As	72	1	50.35	ppb	0.52	50	100.7	90 - 110	
78	Se	72	1	50.03	ppb	2.64	50	100.1	90 - 110	
95	Mo	72	1	48.20	ppb	0.61	50	96.4	90 - 110	
107	Ag	115	1	50.08	ppb	1.48	50	100.2	90 - 110	
111	Cd	115	1	49.00	ppb	1.18	50	98.0	90 - 110	
118	Sn	115	1	48.34	ppb	0.20	50	96.7	90 - 110	
121	Sb	115	1	48.38	ppb	0.53	50	96.8	90 - 110	
137	Ba	115	1	50.04	ppb	1.33	50	100.1	90 - 110	
205	Tl	165	1	50.72	ppb	1.23	50	101.4	90 - 110	
208	Pb	165	1	50.22	ppb	0.62	50	100.4	90 - 110	
232	Th	165	1	50.94	ppb	0.93	50	101.9	90 - 110	
238	U	165	1	50.39	ppb	1.51	50	100.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493360	0.39	585126	84.3	30 - 120	
45	Sc	1	2546339	0.41	2674809	95.2	30 - 120	
72	Ge	1	1499731	0.36	1557492	96.3	30 - 120	
115	In	1	4347233	0.86	4523827	96.1	30 - 120	
165	Ho	1	8523580	0.84	9084802	93.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\067_CCB.D\067_CCB.D#
Date Acquired: Nov 16 2011 02:27 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.002	ppb	538.16	1.00	
51	V	72	1	0.006	ppb	197.81	1.00	
52	Cr	72	1	-0.002	ppb	115.54	1.00	
55	Mn	72	1	0.172	ppb	6.23	1.00	
59	Co	72	1	0.005	ppb	14.31	1.00	
60	Ni	72	1	0.009	ppb	32.42	1.00	
63	Cu	72	1	0.005	ppb	39.49	1.00	
66	Zn	72	1	0.007	ppb	14.86	1.00	
75	As	72	1	0.006	ppb	88.78	1.00	
78	Se	72	1	0.301	ppb	13.24	1.00	
95	Mo	72	1	0.011	ppb	44.77	1.00	
107	Ag	115	1	0.007	ppb	20.43	1.00	
111	Cd	115	1	0.004	ppb	147.21	1.00	
118	Sn	115	1	0.036	ppb	9.09	1.00	
121	Sb	115	1	0.006	ppb	43.36	1.00	
137	Ba	115	1	0.015	ppb	21.75	1.00	
205	Tl	165	1	0.013	ppb	5.05	1.00	
208	Pb	165	1	0.007	ppb	26.07	1.00	
232	Th	165	1	0.033	ppb	13.06	1.00	
238	U	165	1	0.010	ppb	8.04	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	487824	1.02	585126	83.4	30 - 120	
45	Sc	1	2540360	0.91	2674809	95.0	30 - 120	
72	Ge	1	1494643	0.76	1557492	96.0	30 - 120	
115	In	1	4281321	0.48	4523827	94.6	30 - 120	
165	Ho	1	8408484	1.43	9084802	92.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\068SMPL.D\068SMPL.D#
Date Acquired:	Nov 16 2011 02:30 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22231-e-16-a
Misc Info:	
Vial Number:	2411
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	202.03	3600	
51	V	72	1	0.04	0.04	ppb	14.59	3600	
52	Cr	72	1	0.07	0.07	ppb	11.73	3600	
55	Mn	72	1	0.56	0.56	ppb	4.68	18000	
59	Co	72	1	0.01	0.01	ppb	18.18	3600	
60	Ni	72	1	0.08	0.08	ppb	2.48	3600	
63	Cu	72	1	0.19	0.19	ppb	2.37	3600	
66	Zn	72	1	1.61	1.61	ppb	3.22	3600	
75	As	72	1	0.01	0.01	ppb	15.99	3600	
78	Se	72	1	0.30	0.30	ppb	76.20	3600	
95	Mo	72	1	0.01	0.01	ppb	46.40	3600	
107	Ag	115	1	0.00	0.00	ppb	67.05	3600	
111	Cd	115	1	0.00	0.00	ppb	87.35	3600	
118	Sn	115	1	0.06	0.06	ppb	11.19	3600	
121	Sb	115	1	0.00	0.00	ppb	51.57	3600	
137	Ba	115	1	0.15	0.15	ppb	1.58	3600	
205	Tl	165	1	0.01	0.01	ppb	10.34	3600	
208	Pb	165	1	0.02	0.02	ppb	0.52	3600	
232	Th	165	1	0.02	0.02	ppb	12.34	1000	
238	U	165	1	0.00	0.00	ppb	9.25	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	504538	0.52	585126	86.2	30 - 120	
45	Sc	1	2580885	1.35	2674809	96.5	30 - 120	
72	Ge	1	1488554	1.11	1557492	95.6	30 - 120	
115	In	1	4332727	1.19	4523827	95.8	30 - 120	
165	Ho	1	8676554	0.76	9084802	95.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\069SMPL.D\069SMPL.D#
Date Acquired:	Nov 16 2011 02:33 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-e-5-a
Misc Info:	
Vial Number:	2412
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	575.09	3600	
51	V	72	1	0.03	0.03	ppb	9.12	3600	
52	Cr	72	1	0.05	0.05	ppb	14.09	3600	
55	Mn	72	1	0.41	0.41	ppb	2.73	18000	
59	Co	72	1	0.00	0.00	ppb	35.16	3600	
60	Ni	72	1	0.08	0.08	ppb	14.72	3600	
63	Cu	72	1	11.63	11.63	ppb	1.65	3600	
66	Zn	72	1	7.16	7.16	ppb	1.56	3600	
75	As	72	1	0.02	0.02	ppb	22.07	3600	
78	Se	72	1	-0.01	-0.01	ppb	1460.10	3600	
95	Mo	72	1	0.02	0.02	ppb	11.83	3600	
107	Ag	115	1	0.00	0.00	ppb	56.39	3600	
111	Cd	115	1	0.00	0.00	ppb	181.75	3600	
118	Sn	115	1	0.11	0.11	ppb	13.03	3600	
121	Sb	115	1	0.00	0.00	ppb	213.14	3600	
137	Ba	115	1	0.25	0.25	ppb	1.46	3600	
205	Tl	165	1	0.01	0.01	ppb	3.77	3600	
208	Pb	165	1	0.04	0.04	ppb	4.48	3600	
232	Th	165	1	0.01	0.01	ppb	14.97	1000	
238	U	165	1	0.00	0.00	ppb	43.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	498130	0.65	585126	85.1	30 - 120	
45	Sc	1	2584422	0.40	2674809	96.6	30 - 120	
72	Ge	1	1491074	1.04	1557492	95.7	30 - 120	
115	In	1	4344203	0.54	4523827	96.0	30 - 120	
165	Ho	1	8541548	0.36	9084802	94.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\070SMPL.D\070SMPL.D#
Date Acquired:	Nov 16 2011 02:36 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22327-i-29-a
Misc Info:	
Vial Number:	2501
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1216.10	3600	
51	V	72	1	0.04	0.04	ppb	43.29	3600	
52	Cr	72	1	0.15	0.15	ppb	6.00	3600	
55	Mn	72	1	0.58	0.58	ppb	5.16	18000	
59	Co	72	1	0.01	0.01	ppb	17.68	3600	
60	Ni	72	1	0.34	0.34	ppb	5.54	3600	
63	Cu	72	1	0.79	0.79	ppb	1.31	3600	
66	Zn	72	1	2.61	2.61	ppb	1.81	3600	
75	As	72	1	0.02	0.02	ppb	16.10	3600	
78	Se	72	1	0.20	0.20	ppb	14.65	3600	
95	Mo	72	1	0.01	0.01	ppb	59.00	3600	
107	Ag	115	1	0.00	0.00	ppb	71.49	3600	
111	Cd	115	1	0.00	0.00	ppb	303.68	3600	
118	Sn	115	1	0.07	0.07	ppb	4.18	3600	
121	Sb	115	1	0.00	0.00	ppb	40.48	3600	
137	Ba	115	1	0.30	0.30	ppb	1.28	3600	
205	Tl	165	1	0.00	0.00	ppb	13.36	3600	
208	Pb	165	1	0.03	0.03	ppb	5.99	3600	
232	Th	165	1	0.01	0.01	ppb	12.20	1000	
238	U	165	1	0.00	0.00	ppb	998.77	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	495686	1.16	585126	84.7	30 - 120	
45	Sc	1	2593059	0.55	2674809	96.9	30 - 120	
72	Ge	1	1488649	1.42	1557492	95.6	30 - 120	
115	In	1	4353332	0.90	4523827	96.2	30 - 120	
165	Ho	1	8575793	2.70	9084802	94.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\071SMPL.D\071SMPL.D#
Date Acquired: Nov 16 2011 02:38 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22334-a-8-a
Misc Info:
Vial Number: 2502
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	266.98	3600	
51	V	72	1	0.35	0.35	ppb	4.09	3600	
52	Cr	72	1	0.73	0.73	ppb	2.08	3600	
55	Mn	72	1	2,178.00	2178.00	ppb	0.61	18000	
59	Co	72	1	0.25	0.25	ppb	1.63	3600	
60	Ni	72	1	0.84	0.84	ppb	9.27	3600	
63	Cu	72	1	0.95	0.95	ppb	2.51	3600	
66	Zn	72	1	6.36	6.36	ppb	1.46	3600	
75	As	72	1	3.62	3.62	ppb	1.34	3600	
78	Se	72	1	0.58	0.58	ppb	35.11	3600	
95	Mo	72	1	0.38	0.38	ppb	2.63	3600	
107	Ag	115	1	0.00	0.00	ppb	57.20	3600	
111	Cd	115	1	0.04	0.04	ppb	19.23	3600	
118	Sn	115	1	0.07	0.07	ppb	5.94	3600	
121	Sb	115	1	0.03	0.03	ppb	11.37	3600	
137	Ba	115	1	104.60	104.60	ppb	0.61	3600	
205	Tl	165	1	0.03	0.03	ppb	10.39	3600	
208	Pb	165	1	0.51	0.51	ppb	1.62	3600	
232	Th	165	1	0.01	0.01	ppb	15.96	1000	
238	U	165	1	0.33	0.33	ppb	1.58	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489665	1.42	585126	83.7	30 - 120	
45	Sc	1	2490089	1.59	2674809	93.1	30 - 120	
72	Ge	1	1417814	0.85	1557492	91.0	30 - 120	
115	In	1	4132094	1.01	4523827	91.3	30 - 120	
165	Ho	1	8255520	0.85	9084802	90.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\072SMPL.D\072SMPL.D#
Date Acquired: Nov 16 2011 02:41 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22334-a-9-a
Misc Info:
Vial Number: 2503
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1077.70	3600	
51	V	72	1	0.35	0.35	ppb	3.28	3600	
52	Cr	72	1	0.58	0.58	ppb	2.09	3600	
55	Mn	72	1	2,072.00	2072.00	ppb	0.31	18000	
59	Co	72	1	0.24	0.24	ppb	3.92	3600	
60	Ni	72	1	0.67	0.67	ppb	4.58	3600	
63	Cu	72	1	0.69	0.69	ppb	3.33	3600	
66	Zn	72	1	6.20	6.20	ppb	1.69	3600	
75	As	72	1	3.42	3.42	ppb	0.67	3600	
78	Se	72	1	0.43	0.43	ppb	31.63	3600	
95	Mo	72	1	0.32	0.32	ppb	3.27	3600	
107	Ag	115	1	0.00	0.00	ppb	111.73	3600	
111	Cd	115	1	0.03	0.03	ppb	31.63	3600	
118	Sn	115	1	0.06	0.06	ppb	10.02	3600	
121	Sb	115	1	0.03	0.03	ppb	7.97	3600	
137	Ba	115	1	102.40	102.40	ppb	0.11	3600	
205	Tl	165	1	0.01	0.01	ppb	0.84	3600	
208	Pb	165	1	0.10	0.10	ppb	2.41	3600	
232	Th	165	1	0.01	0.01	ppb	12.21	1000	
238	U	165	1	0.31	0.31	ppb	1.09	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	488271	1.65	585126	83.4	30 - 120	
45	Sc	1	2505151	1.12	2674809	93.7	30 - 120	
72	Ge	1	1402206	1.18	1557492	90.0	30 - 120	
115	In	1	4175672	0.59	4523827	92.3	30 - 120	
165	Ho	1	8393618	1.24	9084802	92.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\073AREF.D\073AREF.D#
Date Acquired: Nov 16 2011 02:44 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22334-a-10-a
Misc Info:
Vial Number: 2504
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.10	0.10	ppb	8.94	3600	
51	V	72	1	2.87	2.87	ppb	2.71	3600	
52	Cr	72	1	3.97	3.97	ppb	1.53	3600	
55	Mn	72	1	1,132.00	1132.00	ppb	1.14	18000	
59	Co	72	1	0.79	0.79	ppb	1.69	3600	
60	Ni	72	1	1.26	1.26	ppb	2.93	3600	
63	Cu	72	1	0.97	0.97	ppb	4.19	3600	
66	Zn	72	1	4.79	4.79	ppb	0.62	3600	
75	As	72	1	60.24	60.24	ppb	0.97	3600	
78	Se	72	1	0.30	0.30	ppb	135.40	3600	
95	Mo	72	1	1.78	1.78	ppb	1.43	3600	
107	Ag	115	1	0.00	0.00	ppb	26.85	3600	
111	Cd	115	1	0.02	0.02	ppb	53.22	3600	
118	Sn	115	1	0.06	0.06	ppb	16.56	3600	
121	Sb	115	1	0.04	0.04	ppb	11.07	3600	
137	Ba	115	1	135.10	135.10	ppb	0.21	3600	
205	Tl	165	1	0.00	0.00	ppb	33.43	3600	
208	Pb	165	1	0.46	0.46	ppb	1.71	3600	
232	Th	165	1	0.37	0.37	ppb	2.92	1000	
238	U	165	1	0.05	0.05	ppb	1.04	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	473557	0.39	585126	80.9	30 - 120	
45	Sc	1	2444387	0.50	2674809	91.4	30 - 120	
72	Ge	1	1372860	0.66	1557492	88.1	30 - 120	
115	In	1	4068971	1.61	4523827	89.9	30 - 120	
165	Ho	1	8057664	0.18	9084802	88.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\074SDIL.D\074SDIL.D#
Date Acquired:	Nov 16 2011 02:47 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22334-a-10-a SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	2505
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\073AREF.D\073AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.02	ppb	70.38	0.02	102.2	90 - 110	
51	V	72	1	0.54	ppb	2.72	0.57	93.3	90 - 110	
52	Cr	72	1	0.79	ppb	1.36	0.79	98.9	90 - 110	
55	Mn	72	1	219.10	ppb	1.30	226.40	96.8	90 - 110	
59	Co	72	1	0.16	ppb	5.05	0.16	101.0	90 - 110	
60	Ni	72	1	0.50	ppb	7.91	0.25	200.1	90 - 110	
63	Cu	72	1	0.21	ppb	4.56	0.19	109.3	90 - 110	
66	Zn	72	1	1.18	ppb	2.19	0.96	123.7	90 - 110	
75	As	72	1	12.21	ppb	1.20	12.05	101.3	90 - 110	
78	Se	72	1	0.29	ppb	33.45	0.06	485.3	90 - 110	
95	Mo	72	1	0.36	ppb	3.67	0.36	100.3	90 - 110	
107	Ag	115	1	0.00	ppb	69.71	0.00	100.4	90 - 110	
111	Cd	115	1	0.01	ppb	80.14	0.00	130.3	90 - 110	
118	Sn	115	1	0.07	ppb	7.74	0.01	572.2	90 - 110	
121	Sb	115	1	0.01	ppb	48.29	0.01	62.4	90 - 110	
137	Ba	115	1	26.97	ppb	1.31	27.02	99.8	90 - 110	
205	Tl	165	1	0.00	ppb	380.92	0.00	42.1	90 - 110	
208	Pb	165	1	0.10	ppb	2.37	0.09	105.1	90 - 110	
232	Th	165	1	0.07	ppb	6.14	0.07	97.3	90 - 110	
238	U	165	1	0.01	ppb	1.89	0.01	102.6	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493012	1.60	585126	84.3	30 - 120	
45	Sc	1	2528688	1.00	2674809	94.5	30 - 120	
72	Ge	1	1498952	1.75	1557492	96.2	30 - 120	
115	In	1	4313641	0.97	4523827	95.4	30 - 120	
165	Ho	1	8394612	0.53	9084802	92.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\075PDS.D\075PDS.D#
Date Acquired: Nov 16 2011 02:50 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22334-a-10-a PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 2506
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	210.60	0.10	ppb	1.46	200	105.2	75 - 125	
51	V	72	1	209.40	2.87	ppb	2.07	200	103.2	75 - 125	
52	Cr	72	1	204.40	3.97	ppb	2.48	200	100.2	75 - 125	
55	Mn	72	1	1323.00	1132.00	ppb	2.41	200	99.3	75 - 125	
59	Co	72	1	196.50	0.79	ppb	2.29	200	97.9	75 - 125	
60	Ni	72	1	201.90	1.26	ppb	2.93	200	100.3	75 - 125	
63	Cu	72	1	191.30	0.97	ppb	2.31	200	95.2	75 - 125	
66	Zn	72	1	190.00	4.78	ppb	1.93	200	92.8	75 - 125	
75	As	72	1	263.10	60.24	ppb	2.34	200	101.1	75 - 125	
78	Se	72	1	200.20	0.30	ppb	2.08	200	100.0	75 - 125	
95	Mo	72	1	214.40	1.78	ppb	2.76	200	106.3	75 - 125	
107	Ag	115	1	47.14	0.00	ppb	2.90	50	94.3	75 - 125	
111	Cd	115	1	195.00	0.02	ppb	2.38	200	97.5	75 - 125	
118	Sn	115	1	198.10	0.06	ppb	3.69	200	99.0	75 - 125	
121	Sb	115	1	194.90	0.04	ppb	2.58	200	97.4	75 - 125	
137	Ba	115	1	344.80	135.10	ppb	3.62	200	102.9	75 - 125	
205	Tl	165	1	193.60	0.00	ppb	2.98	200	96.8	75 - 125	
208	Pb	165	1	189.80	0.46	ppb	3.08	200	94.7	75 - 125	
232	Th	165	1	0.41	0.37	ppb	1.61	200	0.2	75 - 125	
238	U	165	1	198.20	0.05	ppb	3.86	200	99.1	75 - 125	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	464143	0.90	585126	79.3	30 - 120	
45	Sc	1	2407378	2.18	2674809	90.0	30 - 120	
72	Ge	1	1356083	2.11	1557492	87.1	30 - 120	
115	In	1	4011961	2.51	4523827	88.7	30 - 120	
165	Ho	1	7991128	3.01	9084802	88.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\076_CCV.D\076_CCV.D#
Date Acquired:	Nov 16 2011 02:53 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.29	ppb	2.22	50	104.6	90 - 110	
51	V	72	1	51.28	ppb	1.24	50	102.6	90 - 110	
52	Cr	72	1	50.60	ppb	0.49	50	101.2	90 - 110	
55	Mn	72	1	51.14	ppb	0.69	50	102.3	90 - 110	
59	Co	72	1	50.80	ppb	1.21	50	101.6	90 - 110	
60	Ni	72	1	49.79	ppb	1.06	50	99.6	90 - 110	
63	Cu	72	1	49.91	ppb	2.50	50	99.8	90 - 110	
66	Zn	72	1	49.41	ppb	1.05	50	98.8	90 - 110	
75	As	72	1	50.80	ppb	1.17	50	101.6	90 - 110	
78	Se	72	1	52.05	ppb	2.96	50	104.1	90 - 110	
95	Mo	72	1	49.06	ppb	0.88	50	98.1	90 - 110	
107	Ag	115	1	50.25	ppb	1.55	50	100.5	90 - 110	
111	Cd	115	1	49.50	ppb	1.25	50	99.0	90 - 110	
118	Sn	115	1	48.29	ppb	1.42	50	96.6	90 - 110	
121	Sb	115	1	48.49	ppb	1.03	50	97.0	90 - 110	
137	Ba	115	1	50.60	ppb	1.15	50	101.2	90 - 110	
205	Tl	165	1	50.88	ppb	0.89	50	101.8	90 - 110	
208	Pb	165	1	49.75	ppb	0.52	50	99.5	90 - 110	
232	Th	165	1	50.05	ppb	0.77	50	100.1	90 - 110	
238	U	165	1	50.02	ppb	0.31	50	100.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	484521	0.44	585126	82.8	30 - 120	
45	Sc	1	2549099	0.69	2674809	95.3	30 - 120	
72	Ge	1	1480000	1.15	1557492	95.0	30 - 120	
115	In	1	4317029	1.01	4523827	95.4	30 - 120	
165	Ho	1	8485020	0.38	9084802	93.4	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\077_CCB.D\077_CCB.D#
Date Acquired:	Nov 16 2011 02:56 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.016	ppb	51.74	1.00	
51	V	72	1	0.006	ppb	68.25	1.00	
52	Cr	72	1	0.011	ppb	53.47	1.00	
55	Mn	72	1	0.198	ppb	4.96	1.00	
59	Co	72	1	0.011	ppb	13.06	1.00	
60	Ni	72	1	0.010	ppb	21.27	1.00	
63	Cu	72	1	0.016	ppb	34.93	1.00	
66	Zn	72	1	0.023	ppb	64.56	1.00	
75	As	72	1	0.027	ppb	24.93	1.00	
78	Se	72	1	0.119	ppb	124.50	1.00	
95	Mo	72	1	0.026	ppb	47.24	1.00	
107	Ag	115	1	0.010	ppb	27.80	1.00	
111	Cd	115	1	0.010	ppb	2.97	1.00	
118	Sn	115	1	0.067	ppb	17.06	1.00	
121	Sb	115	1	0.017	ppb	29.75	1.00	
137	Ba	115	1	0.026	ppb	21.28	1.00	
205	Tl	165	1	0.022	ppb	0.74	1.00	
208	Pb	165	1	0.013	ppb	12.31	1.00	
232	Th	165	1	0.028	ppb	9.84	1.00	
238	U	165	1	0.019	ppb	14.23	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	482744	1.16	585126	82.5	30 - 120	
45	Sc	1	2557096	1.56	2674809	95.6	30 - 120	
72	Ge	1	1483238	1.66	1557492	95.2	30 - 120	
115	In	1	4340048	1.46	4523827	95.9	30 - 120	
165	Ho	1	8459452	0.34	9084802	93.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\078_MS.D\078_MS.D#	
Date Acquired:	Nov 16 2011 02:59 pm	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	TEL	**ISTD: Pass**
Sample Name:	280-22334-a-10-b ms	
Misc Info:	MATRIX SPIKE	
Vial Number:	2507	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 16 2011 11:25 am	
Sample Type:	MS	
Prep Dil. Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	44.02	0.10	ppb	1.96	40	109.8	50 - 150	
51	V	72	1	48.17	2.87	ppb	1.35	40	112.4	50 - 150	
52	Cr	72	1	47.35	3.97	ppb	2.11	40	107.7	50 - 150	
55	Mn	72	1	1150.00	1132.00	ppb	2.13	40	98.1	50 - 150	
59	Co	72	1	43.54	0.79	ppb	1.98	40	106.7	50 - 150	
60	Ni	72	1	41.99	1.26	ppb	1.13	40	101.8	50 - 150	
63	Cu	72	1	39.79	0.97	ppb	2.00	40	97.1	50 - 150	
66	Zn	72	1	43.78	4.78	ppb	1.88	40	97.8	50 - 150	
75	As	72	1	101.50	60.24	ppb	1.86	40	101.3	50 - 150	
78	Se	72	1	44.24	0.30	ppb	2.98	40	109.8	50 - 150	
95	Mo	72	1	45.46	1.78	ppb	1.62	40	108.8	50 - 150	
107	Ag	115	1	39.96	0.00	ppb	0.88	40	99.9	50 - 150	
111	Cd	115	1	40.80	0.02	ppb	0.73	40	101.9	50 - 150	
118	Sn	115	1	40.63	0.06	ppb	0.48	40	101.4	50 - 150	
121	Sb	115	1	40.48	0.04	ppb	0.59	40	101.1	50 - 150	
137	Ba	115	1	177.70	135.10	ppb	0.26	40	101.5	50 - 150	
205	Tl	165	1	42.21	0.00	ppb	1.34	40	105.5	50 - 150	
208	Pb	165	1	40.52	0.46	ppb	1.04	40	100.1	50 - 150	
232	Th	165	1	43.23	0.37	ppb	1.04	40	107.1	50 - 150	
238	U	165	1	42.96	0.05	ppb	1.74	40	107.3	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	472954	1.07	585126	80.8	30 - 120	
45	Sc	1	2459159	0.77	2674809	91.9	30 - 120	
72	Ge	1	1387299	1.79	1557492	89.1	30 - 120	
115	In	1	4037628	0.45	4523827	89.3	30 - 120	
165	Ho	1	8067898	0.98	9084802	88.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\079_MSD.D\079_MSD.D#
Date Acquired:	Nov 16 2011 03:02 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22334-a-10-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	2508
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\078_MS.D\078_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	44.05	ppb	2.00	44.02	0.07	20	
51	V	72	1	48.67	ppb	3.08	48.17	1.03	20	
52	Cr	72	1	47.90	ppb	2.58	47.35	1.15	20	
55	Mn	72	1	1176.00	ppb	2.53	1150.00	2.24	20	
59	Co	72	1	44.49	ppb	2.06	43.54	2.16	20	
60	Ni	72	1	42.61	ppb	0.93	41.99	1.47	20	
63	Cu	72	1	40.60	ppb	0.86	39.79	2.02	20	
66	Zn	72	1	43.73	ppb	1.27	43.78	0.11	20	
75	As	72	1	103.40	ppb	1.16	101.50	1.85	20	
78	Se	72	1	42.21	ppb	1.23	44.24	4.70	20	
95	Mo	72	1	45.72	ppb	1.69	45.46	0.57	20	
107	Ag	115	1	39.72	ppb	1.10	39.96	0.60	20	
111	Cd	115	1	40.48	ppb	1.17	40.80	0.79	20	
118	Sn	115	1	40.28	ppb	0.95	40.63	0.87	20	
121	Sb	115	1	39.77	ppb	0.30	40.48	1.77	20	
137	Ba	115	1	177.30	ppb	0.72	177.70	0.23	20	
205	Tl	165	1	42.22	ppb	2.19	42.21	0.02	20	
208	Pb	165	1	40.54	ppb	1.54	40.52	0.05	20	
232	Th	165	1	43.19	ppb	1.44	43.23	0.09	20	
238	U	165	1	42.93	ppb	2.47	42.96	0.07	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	468910	1.64	585126	80.1	30 - 120	
45	Sc	1	2465719	0.53	2674809	92.2	30 - 120	
72	Ge	1	1381194	0.67	1557492	88.7	30 - 120	
115	In	1	4097294	0.19	4523827	90.6	30 - 120	
165	Ho	1	8156191	1.14	9084802	89.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\080SMPL.D\080SMPL.D#
Date Acquired:	Nov 16 2011 03:04 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22334-a-12-a
Misc Info:	
Vial Number:	2509
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.08	0.08	ppb	26.87	3600	
51	V	72	1	9.72	9.72	ppb	1.99	3600	
52	Cr	72	1	1.87	1.87	ppb	2.02	3600	
55	Mn	72	1	114.10	114.10	ppb	0.68	18000	
59	Co	72	1	1.15	1.15	ppb	0.61	3600	
60	Ni	72	1	4.10	4.10	ppb	0.60	3600	
63	Cu	72	1	8.38	8.38	ppb	1.28	3600	
66	Zn	72	1	9.01	9.01	ppb	0.45	3600	
75	As	72	1	12.05	12.05	ppb	1.47	3600	
78	Se	72	1	0.75	0.75	ppb	12.89	3600	
95	Mo	72	1	5.09	5.09	ppb	1.75	3600	
107	Ag	115	1	0.01	0.01	ppb	6.21	3600	
111	Cd	115	1	0.24	0.24	ppb	8.82	3600	
118	Sn	115	1	0.20	0.20	ppb	1.89	3600	
121	Sb	115	1	1.38	1.38	ppb	0.24	3600	
137	Ba	115	1	37.79	37.79	ppb	0.61	3600	
205	Tl	165	1	0.03	0.03	ppb	6.97	3600	
208	Pb	165	1	4.21	4.21	ppb	0.45	3600	
232	Th	165	1	0.10	0.10	ppb	2.92	1000	
238	U	165	1	4.58	4.58	ppb	0.71	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	483739	0.80	585126	82.7	30 - 120	
45	Sc	1	2530391	0.79	2674809	94.6	30 - 120	
72	Ge	1	1411597	1.46	1557492	90.6	30 - 120	
115	In	1	4200440	0.91	4523827	92.9	30 - 120	
165	Ho	1	8164374	0.57	9084802	89.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\081SMPL.D\081SMPL.D#
Date Acquired: Nov 16 2011 03:07 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22334-a-13-a
Misc Info:
Vial Number: 2510
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.19	0.19	ppb	15.52	3600	
51	V	72	1	4.79	4.79	ppb	1.56	3600	
52	Cr	72	1	1.83	1.83	ppb	1.78	3600	
55	Mn	72	1	1,534.00	1534.00	ppb	1.57	18000	
59	Co	72	1	0.28	0.28	ppb	5.58	3600	
60	Ni	72	1	0.61	0.61	ppb	4.90	3600	
63	Cu	72	1	0.81	0.81	ppb	1.88	3600	
66	Zn	72	1	2.44	2.44	ppb	0.84	3600	
75	As	72	1	7.68	7.68	ppb	3.35	3600	
78	Se	72	1	0.37	0.37	ppb	31.27	3600	
95	Mo	72	1	1.15	1.15	ppb	1.87	3600	
107	Ag	115	1	0.01	0.01	ppb	3.46	3600	
111	Cd	115	1	0.05	0.05	ppb	60.30	3600	
118	Sn	115	1	0.05	0.05	ppb	13.85	3600	
121	Sb	115	1	0.08	0.08	ppb	5.51	3600	
137	Ba	115	1	51.05	51.05	ppb	1.10	3600	
205	Tl	165	1	0.01	0.01	ppb	9.64	3600	
208	Pb	165	1	0.45	0.45	ppb	1.40	3600	
232	Th	165	1	0.18	0.18	ppb	2.59	1000	
238	U	165	1	0.19	0.19	ppb	3.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	482390	0.63	585126	82.4	30 - 120	
45	Sc	1	2526319	1.46	2674809	94.4	30 - 120	
72	Ge	1	1452865	0.76	1557492	93.3	30 - 120	
115	In	1	4229376	0.61	4523827	93.5	30 - 120	
165	Ho	1	8359656	0.66	9084802	92.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\082SMPL.D\082SMPL.D#
Date Acquired:	Nov 16 2011 03:10 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22334-a-15-a
Misc Info:	
Vial Number:	2511
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	53.96	3600	
51	V	72	1	1.36	1.36	ppb	3.21	3600	
52	Cr	72	1	0.92	0.92	ppb	1.59	3600	
55	Mn	72	1	757.00	757.00	ppb	1.26	18000	
59	Co	72	1	2.63	2.63	ppb	1.91	3600	
60	Ni	72	1	1.49	1.49	ppb	1.48	3600	
63	Cu	72	1	1.79	1.79	ppb	3.97	3600	
66	Zn	72	1	2.78	2.78	ppb	0.49	3600	
75	As	72	1	5.14	5.14	ppb	1.44	3600	
78	Se	72	1	0.58	0.58	ppb	18.59	3600	
95	Mo	72	1	1.72	1.72	ppb	1.83	3600	
107	Ag	115	1	0.00	0.00	ppb	18.21	3600	
111	Cd	115	1	0.14	0.14	ppb	12.77	3600	
118	Sn	115	1	0.07	0.07	ppb	12.52	3600	
121	Sb	115	1	0.03	0.03	ppb	6.19	3600	
137	Ba	115	1	20.41	20.41	ppb	0.63	3600	
205	Tl	165	1	0.02	0.02	ppb	3.72	3600	
208	Pb	165	1	0.19	0.19	ppb	2.55	3600	
232	Th	165	1	0.19	0.19	ppb	2.41	1000	
238	U	165	1	1.20	1.20	ppb	1.35	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	481112	0.76	585126	82.2	30 - 120	
45	Sc	1	2546957	0.60	2674809	95.2	30 - 120	
72	Ge	1	1430705	1.56	1557492	91.9	30 - 120	
115	In	1	4176699	0.72	4523827	92.3	30 - 120	
165	Ho	1	8323616	0.06	9084802	91.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\083AREF.D\083AREF.D#
Date Acquired:	Nov 16 2011 03:13 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22334-a-16-a
Misc Info:	
Vial Number:	2512
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.20	0.20	ppb	19.12	3600	
51	V	72	1	8.03	8.03	ppb	1.44	3600	
52	Cr	72	1	2.67	2.67	ppb	0.77	3600	
55	Mn	72	1	571.80	571.80	ppb	1.09	18000	
59	Co	72	1	4.71	4.71	ppb	0.65	3600	
60	Ni	72	1	1.42	1.42	ppb	2.67	3600	
63	Cu	72	1	0.21	0.21	ppb	3.34	3600	
66	Zn	72	1	2.85	2.85	ppb	1.27	3600	
75	As	72	1	4.73	4.73	ppb	1.49	3600	
78	Se	72	1	0.56	0.56	ppb	37.10	3600	
95	Mo	72	1	0.25	0.25	ppb	8.84	3600	
107	Ag	115	1	0.00	0.00	ppb	59.11	3600	
111	Cd	115	1	0.06	0.06	ppb	15.73	3600	
118	Sn	115	1	0.07	0.07	ppb	4.32	3600	
121	Sb	115	1	0.08	0.08	ppb	3.69	3600	
137	Ba	115	1	152.90	152.90	ppb	0.84	3600	
205	Tl	165	1	0.00	0.00	ppb	18.64	3600	
208	Pb	165	1	0.06	0.06	ppb	3.43	3600	
232	Th	165	1	0.09	0.09	ppb	0.88	1000	
238	U	165	1	0.04	0.04	ppb	2.24	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	460030	1.29	585126	78.6	30 - 120	
45	Sc	1	2437323	1.23	2674809	91.1	30 - 120	
72	Ge	1	1411167	1.64	1557492	90.6	30 - 120	
115	In	1	4085766	0.29	4523827	90.3	30 - 120	
165	Ho	1	8125719	0.57	9084802	89.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\084_MS.D\084_MS.D#
Date Acquired:	Nov 16 2011 03:16 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22334-a-16-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	3101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	45.38	0.20	ppb	2.02	40	112.9	50 - 150	
51 V	72	1	50.53	8.03	ppb	0.61	40	105.2	50 - 150	
52 Cr	72	1	43.55	2.67	ppb	2.30	40	102.1	50 - 150	
55 Mn	72	1	591.90	571.80	ppb	0.62	40	96.7	50 - 150	
59 Co	72	1	46.31	4.71	ppb	0.83	40	103.6	50 - 150	
60 Ni	72	1	41.00	1.42	ppb	1.08	40	99.0	50 - 150	
63 Cu	72	1	38.11	0.21	ppb	1.01	40	94.8	50 - 150	
66 Zn	72	1	40.45	2.85	ppb	0.89	40	94.4	50 - 150	
75 As	72	1	44.66	4.73	ppb	0.88	40	99.8	50 - 150	
78 Se	72	1	40.44	0.56	ppb	3.50	40	99.7	50 - 150	
95 Mo	72	1	41.83	0.25	ppb	0.82	40	103.9	50 - 150	
107 Ag	115	1	39.53	0.00	ppb	1.65	40	98.8	50 - 150	
111 Cd	115	1	40.30	0.06	ppb	0.63	40	100.6	50 - 150	
118 Sn	115	1	40.81	0.07	ppb	0.55	40	101.8	50 - 150	
121 Sb	115	1	39.70	0.08	ppb	0.72	40	99.1	50 - 150	
137 Ba	115	1	196.70	152.90	ppb	2.08	40	102.0	50 - 150	
205 Tl	165	1	41.11	0.00	ppb	1.39	40	102.8	50 - 150	
208 Pb	165	1	40.29	0.06	ppb	1.64	40	100.6	50 - 150	
232 Th	165	1	42.26	0.09	ppb	2.17	40	105.4	50 - 150	
238 U	165	1	41.75	0.04	ppb	2.52	40	104.3	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	451319	0.83	585126	77.1	30 - 120	
45 Sc	1	2454634	0.66	2674809	91.8	30 - 120	
72 Ge	1	1445983	1.40	1557492	92.8	30 - 120	
115 In	1	4135642	0.72	4523827	91.4	30 - 120	
165 Ho	1	8186621	1.35	9084802	90.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\085_MSD.D\085_MSD.D#
Date Acquired:	Nov 16 2011 03:19 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22334-a-16-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	3102
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\084_MS.D\084_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	43.35	ppb	1.95	45.38	4.58	20	
51	V	72	1	51.29	ppb	1.29	50.53	1.49	20	
52	Cr	72	1	44.24	ppb	1.20	43.55	1.57	20	
55	Mn	72	1	606.00	ppb	0.46	591.90	2.35	20	
59	Co	72	1	46.66	ppb	0.46	46.31	0.75	20	
60	Ni	72	1	41.88	ppb	2.01	41.00	2.12	20	
63	Cu	72	1	39.11	ppb	1.59	38.11	2.59	20	
66	Zn	72	1	41.21	ppb	1.06	40.45	1.86	20	
75	As	72	1	45.90	ppb	1.24	44.66	2.74	20	
78	Se	72	1	40.48	ppb	2.84	40.44	0.10	20	
95	Mo	72	1	42.68	ppb	0.88	41.83	2.01	20	
107	Ag	115	1	40.15	ppb	1.79	39.53	1.56	20	
111	Cd	115	1	40.10	ppb	1.10	40.30	0.50	20	
118	Sn	115	1	40.82	ppb	1.42	40.81	0.02	20	
121	Sb	115	1	40.12	ppb	1.51	39.70	1.05	20	
137	Ba	115	1	195.30	ppb	2.00	196.70	0.71	20	
205	Tl	165	1	42.18	ppb	1.22	41.11	2.57	20	
208	Pb	165	1	40.77	ppb	0.69	40.29	1.18	20	
232	Th	165	1	43.05	ppb	1.32	42.26	1.85	20	
238	U	165	1	42.49	ppb	1.51	41.75	1.76	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	455052	0.65	585126	77.8	30 - 120	
45	Sc	1	2470849	1.67	2674809	92.4	30 - 120	
72	Ge	1	1422839	1.26	1557492	91.4	30 - 120	
115	In	1	4154965	1.33	4523827	91.8	30 - 120	
165	Ho	1	8127426	1.09	9084802	89.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\086_CCV.D\086_CCV.D#
Date Acquired: Nov 16 2011 03:22 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.65	ppb	3.42	50	105.3	90 - 110	
51	V	72	1	51.27	ppb	0.36	50	102.5	90 - 110	
52	Cr	72	1	50.38	ppb	1.14	50	100.8	90 - 110	
55	Mn	72	1	50.28	ppb	0.35	50	100.6	90 - 110	
59	Co	72	1	51.11	ppb	0.62	50	102.2	90 - 110	
60	Ni	72	1	49.92	ppb	1.59	50	99.8	90 - 110	
63	Cu	72	1	50.18	ppb	1.21	50	100.4	90 - 110	
66	Zn	72	1	49.22	ppb	0.47	50	98.4	90 - 110	
75	As	72	1	50.59	ppb	0.26	50	101.2	90 - 110	
78	Se	72	1	52.40	ppb	4.92	50	104.8	90 - 110	
95	Mo	72	1	48.80	ppb	0.82	50	97.6	90 - 110	
107	Ag	115	1	50.39	ppb	0.41	50	100.8	90 - 110	
111	Cd	115	1	49.36	ppb	0.73	50	98.7	90 - 110	
118	Sn	115	1	47.97	ppb	1.81	50	95.9	90 - 110	
121	Sb	115	1	48.58	ppb	0.59	50	97.2	90 - 110	
137	Ba	115	1	50.43	ppb	0.76	50	100.9	90 - 110	
205	Tl	165	1	51.48	ppb	0.42	50	103.0	90 - 110	
208	Pb	165	1	49.56	ppb	1.04	50	99.1	90 - 110	
232	Th	165	1	49.80	ppb	1.47	50	99.6	90 - 110	
238	U	165	1	49.76	ppb	2.75	50	99.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	468182	0.91	585126	80.0	30 - 120	
45	Sc	1	2541734	1.85	2674809	95.0	30 - 120	
72	Ge	1	1501920	1.32	1557492	96.4	30 - 120	
115	In	1	4374962	0.79	4523827	96.7	30 - 120	
165	Ho	1	8543389	0.32	9084802	94.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\087_CCB.D\087_CCB.D#
Date Acquired:	Nov 16 2011 03:25 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.002	ppb	880.46	1.00	
51	V	72	1	0.002	ppb	338.09	1.00	
52	Cr	72	1	0.003	ppb	191.68	1.00	
55	Mn	72	1	0.155	ppb	6.17	1.00	
59	Co	72	1	0.007	ppb	26.13	1.00	
60	Ni	72	1	0.008	ppb	81.74	1.00	
63	Cu	72	1	0.009	ppb	51.85	1.00	
66	Zn	72	1	0.013	ppb	68.92	1.00	
75	As	72	1	0.013	ppb	54.89	1.00	
78	Se	72	1	0.451	ppb	9.50	1.00	
95	Mo	72	1	0.015	ppb	10.22	1.00	
107	Ag	115	1	0.009	ppb	18.98	1.00	
111	Cd	115	1	-0.001	ppb	399.22	1.00	
118	Sn	115	1	0.039	ppb	12.11	1.00	
121	Sb	115	1	0.017	ppb	20.55	1.00	
137	Ba	115	1	0.023	ppb	7.22	1.00	
205	Tl	165	1	0.009	ppb	21.45	1.00	
208	Pb	165	1	0.007	ppb	6.79	1.00	
232	Th	165	1	0.022	ppb	12.29	1.00	
238	U	165	1	0.012	ppb	11.83	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	472797	0.59	585126	80.8	30 - 120	
45	Sc	1	2567666	1.65	2674809	96.0	30 - 120	
72	Ge	1	1525417	0.41	1557492	97.9	30 - 120	
115	In	1	4338307	0.41	4523827	95.9	30 - 120	
165	Ho	1	8498002	1.07	9084802	93.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\088WASH.D\088WASH.D#		
Date Acquired:	Nov 16 2011 03:28 pm		
Operator:	TEL	QC Summary:	
Sample Name:	LLICV-1131923	Analytes:	Pass
Misc Info:		ISTD:	Pass
Vial Number:	1204		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal Update:	Nov 16 2011 11:25 am		
Sample Type:	WASH		
Total Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.038	ppb	16.54	1.30	
51	V	72	1	5.091	ppb	1.48	6.50	
52	Cr	72	1	2.069	ppb	0.61	2.60	
55	Mn	72	1	1.176	ppb	3.04	1.30	
59	Co	72	1	1.033	ppb	1.90	1.30	
60	Ni	72	1	2.097	ppb	4.02	2.60	
63	Cu	72	1	2.057	ppb	1.78	2.60	
66	Zn	72	1	10.230	ppb	1.78	13.00	
75	As	72	1	5.374	ppb	1.07	6.50	
78	Se	72	1	5.743	ppb	2.22	6.50	
95	Mo	72	1	2.004	ppb	3.67	2.60	
107	Ag	115	1	5.005	ppb	2.47	6.50	
111	Cd	115	1	1.070	ppb	3.75	1.30	
118	Sn	115	1	10.150	ppb	1.71	13.00	
121	Sb	115	1	2.000	ppb	1.31	2.60	
137	Ba	115	1	1.068	ppb	0.66	1.30	
205	Tl	165	1	1.049	ppb	1.10	1.30	
208	Pb	165	1	1.022	ppb	1.59	1.30	
232	Th	165	1	2.079	ppb	1.66	2.60	
238	U	165	1	1.005	ppb	0.71	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	481087	0.30	585126	82.2	30 - 120	
45	Sc	1	2624581	0.86	2674809	98.1	30 - 120	
72	Ge	1	1537166	1.31	1557492	98.7	30 - 120	
115	In	1	4480896	0.88	4523827	99.1	30 - 120	
165	Ho	1	8675379	1.39	9084802	95.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\089_BLK.D\089_BLK.D#
Date Acquired:	Nov 16 2011 03:31 pm
Operator:	TEL
Sample Name:	mb 280-96328/1-a
Misc Info:	BLANK 96328 6020A
Vial Number:	3103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.003	ppb	282.39	2.00	
51	V	72	1	0.006	ppb	135.77	2.00	
52	Cr	72	1	0.031	ppb	18.33	2.00	
55	Mn	72	1	0.134	ppb	2.90	2.00	
59	Co	72	1	0.000	ppb	199.58	2.00	
60	Ni	72	1	0.012	ppb	63.80	2.00	
63	Cu	72	1	0.059	ppb	5.41	2.00	
66	Zn	72	1	1.131	ppb	1.76	2.00	
75	As	72	1	0.002	ppb	266.31	2.00	
78	Se	72	1	0.329	ppb	87.29	2.00	
95	Mo	72	1	-0.001	ppb	310.25	2.00	
107	Ag	115	1	0.003	ppb	30.46	2.00	
111	Cd	115	1	-0.003	ppb	266.25	2.00	
118	Sn	115	1	0.040	ppb	9.19	2.00	
121	Sb	115	1	0.002	ppb	90.66	2.00	
137	Ba	115	1	0.119	ppb	8.60	2.00	
205	Tl	165	1	0.002	ppb	31.87	2.00	
208	Pb	165	1	0.011	ppb	5.05	2.00	
232	Th	165	1	0.009	ppb	21.46	2.00	
238	U	165	1	0.002	ppb	15.31	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	477132	1.35	585126	81.5	30 - 120	
45	Sc	1	2620523	0.91	2674809	98.0	30 - 120	
72	Ge	1	1530626	0.66	1557492	98.3	30 - 120	
115	In	1	4424433	0.81	4523827	97.8	30 - 120	
165	Ho	1	8620385	1.23	9084802	94.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\090_LCS.D\090_LCS.D#
Date Acquired: Nov 16 2011 03:33 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: lcs 280-96328/2-a
Misc Info: LCS
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	44.61	1.67	40	111.5	80 - 120	
51	V	72	1	42.27	1.21	40	105.7	80 - 120	
52	Cr	72	1	41.46	0.19	40	103.7	80 - 120	
55	Mn	72	1	40.77	1.76	40	101.9	80 - 120	
59	Co	72	1	41.50	1.44	40	103.8	80 - 120	
60	Ni	72	1	40.62	1.23	40	101.6	80 - 120	
63	Cu	72	1	40.69	1.62	40	101.7	80 - 120	
66	Zn	72	1	42.30	0.92	40	105.8	80 - 120	
75	As	72	1	42.83	1.16	40	107.1	80 - 120	
78	Se	72	1	44.36	1.93	40	110.9	80 - 120	
95	Mo	72	1	40.27	1.69	40	100.7	80 - 120	
107	Ag	115	1	41.45	2.85	40	103.6	80 - 120	
111	Cd	115	1	41.08	1.91	40	102.7	80 - 120	
118	Sn	115	1	40.59	2.69	40	101.5	80 - 120	
121	Sb	115	1	40.09	1.87	40	100.2	80 - 120	
137	Ba	115	1	41.72	2.08	40	104.3	80 - 120	
205	Tl	165	1	42.46	1.16	40	106.2	80 - 120	
208	Pb	165	1	41.95	2.07	40	104.9	80 - 120	
232	Th	165	1	41.98	1.10	40	105.0	80 - 120	
238	U	165	1	41.97	0.89	40	104.9	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	486683	0.83	585126	83.2	30 - 120	
45	Sc	1	2645081	2.02	2674809	98.9	30 - 120	
72	Ge	1	1546690	1.33	1557492	99.3	30 - 120	
115	In	1	4457646	2.06	4523827	98.5	30 - 120	
165	Ho	1	8565986	1.17	9084802	94.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\091SMPL.D\091SMPL.D#
Date Acquired:	Nov 16 2011 03:36 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-1-d
Misc Info:	
Vial Number:	3105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	304.41	3600	
51	V	72	1	0.10	0.10	ppb	17.86	3600	
52	Cr	72	1	0.10	0.10	ppb	27.10	3600	
55	Mn	72	1	1,789.00	1789.00	ppb	15.51	18000	
59	Co	72	1	4.43	4.43	ppb	16.24	3600	
60	Ni	72	1	10.35	10.35	ppb	17.30	3600	
63	Cu	72	1	0.64	0.64	ppb	16.13	3600	
66	Zn	72	1	4.78	4.78	ppb	15.46	3600	
75	As	72	1	3.77	3.77	ppb	16.15	3600	
78	Se	72	1	8.62	8.62	ppb	25.60	3600	
95	Mo	72	1	3.52	3.52	ppb	17.31	3600	
107	Ag	115	1	0.01	0.01	ppb	46.93	3600	
111	Cd	115	1	0.04	0.04	ppb	49.01	3600	
118	Sn	115	1	0.04	0.04	ppb	32.47	3600	
121	Sb	115	1	0.08	0.08	ppb	13.83	3600	
137	Ba	115	1	99.44	99.44	ppb	19.78	3600	
205	Tl	165	1	0.03	0.03	ppb	32.47	3600	
208	Pb	165	1	0.04	0.04	ppb	19.43	3600	
232	Th	165	1	0.05	0.05	ppb	10.18	1000	
238	U	165	1	16.60	16.60	ppb	18.59	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	432815	11.34	585126	74.0	30 - 120	
45	Sc	1	2164971	16.84	2674809	80.9	30 - 120	
72	Ge	1	1220242	13.78	1557492	78.3	30 - 120	
115	In	1	3527179	17.17	4523827	78.0	30 - 120	
165	Ho	1	7017384	16.02	9084802	77.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\092SMPL.D\092SMPL.D#
Date Acquired:	Nov 16 2011 03:39 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-2-d
Misc Info:	
Vial Number:	3106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	890.82	3600	
51	V	72	1	0.07	0.07	ppb	21.42	3600	
52	Cr	72	1	0.09	0.09	ppb	6.84	3600	
55	Mn	72	1	3,166.00	3166.00	ppb	0.21	18000	
59	Co	72	1	0.42	0.42	ppb	2.34	3600	
60	Ni	72	1	8.14	8.14	ppb	0.74	3600	
63	Cu	72	1	0.14	0.14	ppb	0.45	3600	
66	Zn	72	1	1.98	1.98	ppb	2.29	3600	
75	As	72	1	11.81	11.81	ppb	1.30	3600	
78	Se	72	1	0.28	0.28	ppb	102.18	3600	
95	Mo	72	1	6.89	6.89	ppb	1.10	3600	
107	Ag	115	1	0.00	0.00	ppb	36.84	3600	
111	Cd	115	1	0.01	0.01	ppb	110.49	3600	
118	Sn	115	1	0.02	0.02	ppb	25.99	3600	
121	Sb	115	1	0.03	0.03	ppb	6.69	3600	
137	Ba	115	1	113.30	113.30	ppb	1.23	3600	
205	Tl	165	1	0.01	0.01	ppb	13.05	3600	
208	Pb	165	1	0.01	0.01	ppb	30.31	3600	
232	Th	165	1	0.01	0.01	ppb	15.65	1000	
238	U	165	1	0.27	0.27	ppb	0.77	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	464084	1.32	585126	79.3	30 - 120	
45	Sc	1	2406679	2.49	2674809	90.0	30 - 120	
72	Ge	1	1334228	1.03	1557492	85.7	30 - 120	
115	In	1	3845198	1.52	4523827	85.0	30 - 120	
165	Ho	1	7779325	0.10	9084802	85.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\093SMPL.D\093SMPL.D#
Date Acquired:	Nov 16 2011 03:42 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-3-d
Misc Info:	
Vial Number:	3107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	465.94	3600	
51	V	72	1	0.27	0.27	ppb	2.21	3600	
52	Cr	72	1	0.10	0.10	ppb	9.56	3600	
55	Mn	72	1	970.10	970.10	ppb	0.62	18000	
59	Co	72	1	3.21	3.21	ppb	1.74	3600	
60	Ni	72	1	16.27	16.27	ppb	1.90	3600	
63	Cu	72	1	0.51	0.51	ppb	5.55	3600	
66	Zn	72	1	6.36	6.36	ppb	1.16	3600	
75	As	72	1	4.18	4.18	ppb	2.34	3600	
78	Se	72	1	0.34	0.34	ppb	44.61	3600	
95	Mo	72	1	1.08	1.08	ppb	0.28	3600	
107	Ag	115	1	0.00	0.00	ppb	54.37	3600	
111	Cd	115	1	0.05	0.05	ppb	17.29	3600	
118	Sn	115	1	0.03	0.03	ppb	3.91	3600	
121	Sb	115	1	0.09	0.09	ppb	12.15	3600	
137	Ba	115	1	254.80	254.80	ppb	0.43	3600	
205	Tl	165	1	0.05	0.05	ppb	1.01	3600	
208	Pb	165	1	0.01	0.01	ppb	2.85	3600	
232	Th	165	1	0.00	0.00	ppb	30.37	1000	
238	U	165	1	17.64	17.64	ppb	1.84	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	478074	0.83	585126	81.7	30 - 120	
45	Sc	1	2412199	1.29	2674809	90.2	30 - 120	
72	Ge	1	1334163	1.14	1557492	85.7	30 - 120	
115	In	1	3875102	1.11	4523827	85.7	30 - 120	
165	Ho	1	7811820	0.32	9084802	86.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\094AREF.D\094AREF.D#
Date Acquired:	Nov 16 2011 03:45 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-4-k
Misc Info:	
Vial Number:	3108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	294.33	3600	
51	V	72	1	0.16	0.16	ppb	2.79	3600	
52	Cr	72	1	0.06	0.06	ppb	3.14	3600	
55	Mn	72	1	1,803.00	1803.00	ppb	1.59	18000	
59	Co	72	1	0.17	0.17	ppb	7.77	3600	
60	Ni	72	1	1.15	1.15	ppb	1.53	3600	
63	Cu	72	1	0.17	0.17	ppb	9.61	3600	
66	Zn	72	1	2.00	2.00	ppb	3.06	3600	
75	As	72	1	20.91	20.91	ppb	1.89	3600	
78	Se	72	1	0.37	0.37	ppb	21.94	3600	
95	Mo	72	1	0.31	0.31	ppb	4.15	3600	
107	Ag	115	1	0.00	0.00	ppb	12.71	3600	
111	Cd	115	1	0.01	0.01	ppb	108.66	3600	
118	Sn	115	1	0.03	0.03	ppb	15.84	3600	
121	Sb	115	1	0.05	0.05	ppb	3.46	3600	
137	Ba	115	1	475.80	475.80	ppb	1.43	3600	
205	Tl	165	1	0.00	0.00	ppb	9.58	3600	
208	Pb	165	1	0.01	0.01	ppb	4.94	3600	
232	Th	165	1	0.01	0.01	ppb	28.57	1000	
238	U	165	1	0.04	0.04	ppb	2.34	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	465946	0.33	585126	79.6	30 - 120	
45	Sc	1	2405009	0.61	2674809	89.9	30 - 120	
72	Ge	1	1368770	1.27	1557492	87.9	30 - 120	
115	In	1	3950101	0.83	4523827	87.3	30 - 120	
165	Ho	1	7815788	1.25	9084802	86.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\095SDIL.D\095SDIL.D#
Date Acquired: Nov 16 2011 03:48 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-4-k SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\094AREF.D\094AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.01	ppb	197.90	0.00	-1879.1	90 - 110	
51	V	72	1	0.02	ppb	38.69	0.03	75.8	90 - 110	
52	Cr	72	1	0.01	ppb	41.61	0.01	68.6	90 - 110	
55	Mn	72	1	360.90	ppb	0.80	360.60	100.1	90 - 110	
59	Co	72	1	0.04	ppb	5.38	0.03	105.4	90 - 110	
60	Ni	72	1	0.24	ppb	12.79	0.23	106.6	90 - 110	
63	Cu	72	1	0.04	ppb	9.36	0.03	128.7	90 - 110	
66	Zn	72	1	0.52	ppb	0.09	0.40	130.7	90 - 110	
75	As	72	1	4.24	ppb	2.07	4.18	101.4	90 - 110	
78	Se	72	1	0.32	ppb	131.76	0.07	424.7	90 - 110	
95	Mo	72	1	0.06	ppb	5.21	0.06	93.3	90 - 110	
107	Ag	115	1	0.00	ppb	18.20	0.00	465.9	90 - 110	
111	Cd	115	1	0.00	ppb	185.42	0.00	147.2	90 - 110	
118	Sn	115	1	0.03	ppb	4.20	0.01	418.7	90 - 110	
121	Sb	115	1	0.01	ppb	28.30	0.01	82.0	90 - 110	
137	Ba	115	1	92.89	ppb	0.56	95.16	97.6	90 - 110	
205	Tl	165	1	0.00	ppb	15.34	0.00	419.8	90 - 110	
208	Pb	165	1	0.00	ppb	26.72	0.00	182.7	90 - 110	
232	Th	165	1	0.00	ppb	16.23	0.00	342.3	90 - 110	
238	U	165	1	0.01	ppb	9.80	0.01	124.1	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	490493	0.80	585126	83.8	30 - 120	
45	Sc	1	2528433	1.19	2674809	94.5	30 - 120	
72	Ge	1	1487690	0.45	1557492	95.5	30 - 120	
115	In	1	4281012	0.40	4523827	94.6	30 - 120	
165	Ho	1	8291152	1.67	9084802	91.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\096PDS.D\096PDS.D#		
Date Acquired:	Nov 16 2011 03:51 pm	**QC Summary:**	
Acq. Method:	NormISIS.M	**Analytes:**	**Pass**
Operator:	TEL	**ISTD:**	**Pass**
Sample Name:	280-22754-e-4-k PDS		
Misc Info:	POST DIGESTION SPIKE		
Vial Number:	3110		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 11:25 am		
Sample Type:	PDS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		
Spike Ref. File:	---		

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	211.90	0.00	ppb	1.17	200	106.0	75 - 125	
51	V	72	1	202.90	0.16	ppb	0.92	200	101.4	75 - 125	
52	Cr	72	1	194.80	0.06	ppb	0.68	200	97.4	75 - 125	
55	Mn	72	1	1963.00	1803.00	ppb	0.46	200	98.0	75 - 125	
59	Co	72	1	189.30	0.17	ppb	0.85	200	94.6	75 - 125	
60	Ni	72	1	194.20	1.15	ppb	1.14	200	96.5	75 - 125	
63	Cu	72	1	179.50	0.17	ppb	0.27	200	89.7	75 - 125	
66	Zn	72	1	185.80	2.00	ppb	0.54	200	92.0	75 - 125	
75	As	72	1	230.70	20.91	ppb	0.21	200	104.4	75 - 125	
78	Se	72	1	209.10	0.37	ppb	1.24	200	104.4	75 - 125	
95	Mo	72	1	209.00	0.31	ppb	0.74	200	104.3	75 - 125	
107	Ag	115	1	46.49	0.00	ppb	1.75	50	93.0	75 - 125	
111	Cd	115	1	196.20	0.01	ppb	0.72	200	98.1	75 - 125	
118	Sn	115	1	197.20	0.03	ppb	0.64	200	98.6	75 - 125	
121	Sb	115	1	200.80	0.05	ppb	0.73	200	100.4	75 - 125	
137	Ba	115	1	671.30	475.80	ppb	0.84	200	99.3	75 - 125	
205	Tl	165	1	187.50	0.00	ppb	0.40	200	93.7	75 - 125	
208	Pb	165	1	183.00	0.01	ppb	0.60	200	91.5	75 - 125	
232	Th	165	1	0.06	0.01	ppb	7.37	200	0.0	75 - 125	
238	U	165	1	191.60	0.04	ppb	0.97	200	95.8	75 - 125	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	454902	0.62	585126	77.7	30 - 120	
45	Sc	1	2348936	0.67	2674809	87.8	30 - 120	
72	Ge	1	1339554	0.47	1557492	86.0	30 - 120	
115	In	1	3885785	0.24	4523827	85.9	30 - 120	
165	Ho	1	7690006	0.19	9084802	84.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\097_CCV.D\097_CCV.D#
Date Acquired:	Nov 16 2011 03:54 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	54.22	ppb	0.88	50	108.4	90 - 110	
51	V	72	1	50.91	ppb	1.21	50	101.8	90 - 110	
52	Cr	72	1	50.00	ppb	1.14	50	100.0	90 - 110	
55	Mn	72	1	50.81	ppb	0.75	50	101.6	90 - 110	
59	Co	72	1	50.41	ppb	1.01	50	100.8	90 - 110	
60	Ni	72	1	49.66	ppb	1.19	50	99.3	90 - 110	
63	Cu	72	1	49.90	ppb	0.95	50	99.8	90 - 110	
66	Zn	72	1	49.50	ppb	0.39	50	99.0	90 - 110	
75	As	72	1	50.68	ppb	0.34	50	101.4	90 - 110	
78	Se	72	1	51.83	ppb	1.09	50	103.7	90 - 110	
95	Mo	72	1	48.76	ppb	0.56	50	97.5	90 - 110	
107	Ag	115	1	50.09	ppb	1.43	50	100.2	90 - 110	
111	Cd	115	1	49.36	ppb	0.72	50	98.7	90 - 110	
118	Sn	115	1	48.01	ppb	0.03	50	96.0	90 - 110	
121	Sb	115	1	48.54	ppb	1.24	50	97.1	90 - 110	
137	Ba	115	1	50.35	ppb	1.24	50	100.7	90 - 110	
205	Tl	165	1	50.60	ppb	0.43	50	101.2	90 - 110	
208	Pb	165	1	49.68	ppb	0.31	50	99.4	90 - 110	
232	Th	165	1	49.73	ppb	1.31	50	99.5	90 - 110	
238	U	165	1	49.80	ppb	1.13	50	99.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	477846	1.01	585126	81.7	30 - 120	
45	Sc	1	2544684	0.94	2674809	95.1	30 - 120	
72	Ge	1	1487519	0.63	1557492	95.5	30 - 120	
115	In	1	4315873	1.38	4523827	95.4	30 - 120	
165	Ho	1	8330198	0.22	9084802	91.7	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\098_CCB.D\098_CCB.D#
Date Acquired:	Nov 16 2011 03:57 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.007	ppb	219.55	1.00	
51	V	72	1	0.012	ppb	43.02	1.00	
52	Cr	72	1	0.007	ppb	30.92	1.00	
55	Mn	72	1	0.145	ppb	10.88	1.00	
59	Co	72	1	0.006	ppb	43.39	1.00	
60	Ni	72	1	0.013	ppb	34.75	1.00	
63	Cu	72	1	0.004	ppb	123.05	1.00	
66	Zn	72	1	0.009	ppb	122.19	1.00	
75	As	72	1	0.018	ppb	12.73	1.00	
78	Se	72	1	0.202	ppb	67.16	1.00	
95	Mo	72	1	0.016	ppb	34.85	1.00	
107	Ag	115	1	0.008	ppb	26.76	1.00	
111	Cd	115	1	-0.001	ppb	758.26	1.00	
118	Sn	115	1	0.057	ppb	15.72	1.00	
121	Sb	115	1	0.017	ppb	18.55	1.00	
137	Ba	115	1	0.021	ppb	9.27	1.00	
205	Tl	165	1	0.019	ppb	6.93	1.00	
208	Pb	165	1	0.009	ppb	9.70	1.00	
232	Th	165	1	0.023	ppb	4.56	1.00	
238	U	165	1	0.016	ppb	3.93	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	475918	0.63	585126	81.3	30 - 120	
45	Sc	1	2537268	0.97	2674809	94.9	30 - 120	
72	Ge	1	1494541	0.77	1557492	96.0	30 - 120	
115	In	1	4309500	0.47	4523827	95.3	30 - 120	
165	Ho	1	8282281	0.84	9084802	91.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\099WASH.D\099WASH.D#
Date Acquired: Nov 16 2011 03:59 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.097 ppb	18.27	1.30	
51	V	72	1	5.111 ppb	0.82	6.50	
52	Cr	72	1	2.087 ppb	1.35	2.60	
55	Mn	72	1	1.176 ppb	2.64	1.30	
59	Co	72	1	1.016 ppb	2.33	1.30	
60	Ni	72	1	2.139 ppb	2.24	2.60	
63	Cu	72	1	2.019 ppb	1.10	2.60	
66	Zn	72	1	10.240 ppb	1.06	13.00	
75	As	72	1	5.286 ppb	0.83	6.50	
78	Se	72	1	5.649 ppb	6.15	6.50	
95	Mo	72	1	2.010 ppb	4.73	2.60	
107	Ag	115	1	5.066 ppb	2.69	6.50	
111	Cd	115	1	1.091 ppb	3.01	1.30	
118	Sn	115	1	10.300 ppb	1.92	13.00	
121	Sb	115	1	2.024 ppb	1.75	2.60	
137	Ba	115	1	1.095 ppb	5.46	1.30	
205	Tl	165	1	1.046 ppb	0.90	1.30	
208	Pb	165	1	1.028 ppb	1.62	1.30	
232	Th	165	1	2.048 ppb	0.77	2.60	
238	U	165	1	1.011 ppb	1.31	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492425	0.83	585126	84.2	30 - 120	
45	Sc	1	2572520	1.70	2674809	96.2	30 - 120	
72	Ge	1	1504673	0.53	1557492	96.6	30 - 120	
115	In	1	4352220	2.74	4523827	96.2	30 - 120	
165	Ho	1	8407748	0.56	9084802	92.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\100WASH.D\100WASH.D#
Date Acquired: Nov 16 2011 04:02 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.024	ppb	132.78	1.30	
51	V	72	1	0.194	ppb	46.97	6.50	
52	Cr	72	1	1.532	ppb	3.32	2.60	
55	Mn	72	1	0.828	ppb	1.37	1.30	
59	Co	72	1	0.073	ppb	3.59	1.30	
60	Ni	72	1	1.233	ppb	5.22	2.60	
63	Cu	72	1	0.559	ppb	2.99	2.60	
66	Zn	72	1	2.796	ppb	1.71	13.00	
75	As	72	1	0.614	ppb	6.42	6.50	
78	Se	72	1	0.558	ppb	23.41	6.50	
95	Mo	72	1	2098.000	ppb	1.59	2.60	
107	Ag	115	1	0.069	ppb	13.28	6.50	
111	Cd	115	1	0.725	ppb	18.05	1.30	
118	Sn	115	1	0.202	ppb	22.38	13.00	
121	Sb	115	1	0.296	ppb	3.32	2.60	
137	Ba	115	1	0.764	ppb	3.96	1.30	
205	Tl	165	1	0.050	ppb	13.59	1.30	
208	Pb	165	1	0.176	ppb	2.12	1.30	
232	Th	165	1	0.032	ppb	12.75	2.60	
238	U	165	1	0.008	ppb	9.48	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	437202	1.26	585126	74.7	30 - 120	
45	Sc	1	2180425	1.13	2674809	81.5	30 - 120	
72	Ge	1	1252085	0.98	1557492	80.4	30 - 120	
115	In	1	3557152	1.14	4523827	78.6	30 - 120	
165	Ho	1	7082821	0.73	9084802	78.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\101WASH.D\101WASH.D#
Date Acquired:	Nov 16 2011 04:05 pm
Operator:	TEL
Sample Name:	RINSE
Misc Info:	
Vial Number:	3
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.003	ppb	288.47	1.30	
51	V	72	1	-0.001	ppb	2799.80	6.50	
52	Cr	72	1	0.013	ppb	33.35	2.60	
55	Mn	72	1	0.089	ppb	4.96	1.30	
59	Co	72	1	0.001	ppb	113.94	1.30	
60	Ni	72	1	0.005	ppb	58.61	2.60	
63	Cu	72	1	0.005	ppb	35.92	2.60	
66	Zn	72	1	-0.012	ppb	34.39	13.00	
75	As	72	1	0.014	ppb	69.02	6.50	
78	Se	72	1	0.218	ppb	96.80	6.50	
95	Mo	72	1	0.362	ppb	9.45	2.60	
107	Ag	115	1	0.002	ppb	23.82	6.50	
111	Cd	115	1	-0.004	ppb	117.43	1.30	
118	Sn	115	1	0.012	ppb	18.08	13.00	
121	Sb	115	1	-0.001	ppb	367.53	2.60	
137	Ba	115	1	0.004	ppb	26.22	1.30	
205	Tl	165	1	0.006	ppb	14.70	1.30	
208	Pb	165	1	-0.001	ppb	86.38	1.30	
232	Th	165	1	0.003	ppb	51.84	2.60	
238	U	165	1	0.002	ppb	8.92	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	475993	1.58	585126	81.3	30 - 120	
45	Sc	1	2456226	2.26	2674809	91.8	30 - 120	
72	Ge	1	1470815	1.76	1557492	94.4	30 - 120	
115	In	1	4308183	0.93	4523827	95.2	30 - 120	
165	Ho	1	8336058	0.51	9084802	91.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\102WASH.D\102WASH.D#
Date Acquired: Nov 16 2011 04:08 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.002	ppb	485.07	1.30	
51	V	72	1	-0.001	ppb	739.59	6.50	
52	Cr	72	1	0.012	ppb	7.81	2.60	
55	Mn	72	1	0.079	ppb	11.97	1.30	
59	Co	72	1	0.002	ppb	65.61	1.30	
60	Ni	72	1	-0.001	ppb	335.84	2.60	
63	Cu	72	1	0.001	ppb	609.52	2.60	
66	Zn	72	1	-0.010	ppb	81.71	13.00	
75	As	72	1	0.006	ppb	60.36	6.50	
78	Se	72	1	0.389	ppb	61.82	6.50	
95	Mo	72	1	0.089	ppb	7.12	2.60	
107	Ag	115	1	0.001	ppb	37.88	6.50	
111	Cd	115	1	-0.002	ppb	71.76	1.30	
118	Sn	115	1	0.008	ppb	54.28	13.00	
121	Sb	115	1	-0.003	ppb	47.45	2.60	
137	Ba	115	1	0.004	ppb	86.13	1.30	
205	Tl	165	1	0.002	ppb	15.99	1.30	
208	Pb	165	1	-0.001	ppb	59.93	1.30	
232	Th	165	1	0.003	ppb	30.21	2.60	
238	U	165	1	0.001	ppb	6.57	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	479980	0.15	585126	82.0	30 - 120	
45	Sc	1	2587992	1.16	2674809	96.8	30 - 120	
72	Ge	1	1496448	0.76	1557492	96.1	30 - 120	
115	In	1	4403418	0.28	4523827	97.3	30 - 120	
165	Ho	1	8439667	0.19	9084802	92.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\103WASH.D\103WASH.D#
Date Acquired:	Nov 16 2011 04:11 pm
Operator:	TEL
Sample Name:	RINSE
Misc Info:	
Vial Number:	3
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	-0.003 ppb	255.58	1.30	
51	V	72	1	0.009 ppb	20.14	6.50	
52	Cr	72	1	0.011 ppb	61.88	2.60	
55	Mn	72	1	0.061 ppb	4.41	1.30	
59	Co	72	1	0.002 ppb	47.09	1.30	
60	Ni	72	1	-0.003 ppb	55.83	2.60	
63	Cu	72	1	-0.003 ppb	96.82	2.60	
66	Zn	72	1	-0.019 ppb	19.24	13.00	
75	As	72	1	0.011 ppb	62.94	6.50	
78	Se	72	1	0.317 ppb	52.36	6.50	
95	Mo	72	1	0.050 ppb	17.00	2.60	
107	Ag	115	1	0.001 ppb	153.45	6.50	
111	Cd	115	1	-0.001 ppb	470.73	1.30	
118	Sn	115	1	0.007 ppb	12.37	13.00	
121	Sb	115	1	-0.003 ppb	59.03	2.60	
137	Ba	115	1	0.004 ppb	40.37	1.30	
205	Tl	165	1	0.001 ppb	5.51	1.30	
208	Pb	165	1	-0.001 ppb	57.36	1.30	
232	Th	165	1	0.002 ppb	9.11	2.60	
238	U	165	1	0.001 ppb	33.40	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	486175	1.24	585126	83.1	30 - 120	
45	Sc	1	2553256	1.06	2674809	95.5	30 - 120	
72	Ge	1	1521747	0.50	1557492	97.7	30 - 120	
115	In	1	4384282	0.56	4523827	96.9	30 - 120	
165	Ho	1	8447442	1.00	9084802	93.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\104WASH.D\104WASH.D#
Date Acquired: Nov 16 2011 04:14 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.008	ppb	0.00	1.30	
51	V	72	1	-0.004	ppb	401.27	6.50	
52	Cr	72	1	0.012	ppb	68.09	2.60	
55	Mn	72	1	0.070	ppb	20.08	1.30	
59	Co	72	1	0.001	ppb	307.22	1.30	
60	Ni	72	1	-0.003	ppb	181.05	2.60	
63	Cu	72	1	-0.003	ppb	248.09	2.60	
66	Zn	72	1	-0.013	ppb	18.08	13.00	
75	As	72	1	0.011	ppb	81.61	6.50	
78	Se	72	1	0.323	ppb	97.77	6.50	
95	Mo	72	1	0.031	ppb	16.70	2.60	
107	Ag	115	1	0.000	ppb	7.88	6.50	
111	Cd	115	1	-0.002	ppb	96.95	1.30	
118	Sn	115	1	0.004	ppb	98.23	13.00	
121	Sb	115	1	-0.004	ppb	38.87	2.60	
137	Ba	115	1	0.002	ppb	328.23	1.30	
205	Tl	165	1	0.000	ppb	404.53	1.30	
208	Pb	165	1	-0.002	ppb	31.32	1.30	
232	Th	165	1	0.001	ppb	119.76	2.60	
238	U	165	1	0.001	ppb	86.14	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489573	1.03	585126	83.7	30 - 120	
45	Sc	1	2626764	1.05	2674809	98.2	30 - 120	
72	Ge	1	1527031	0.08	1557492	98.0	30 - 120	
115	In	1	4381708	1.47	4523827	96.9	30 - 120	
165	Ho	1	8566946	1.27	9084802	94.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\105CALB.D\105CALB.D#
Date Acquired:	Nov 16 2011 04:17 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	Cal Blank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
51	V	72	1	291	58.62
52	Cr	72	1	1810	6.40
55	Mn	72	1	2860	0.62
59	Co	72	1	203	56.58
60	Ni	72	1	227	11.23
63	Cu	72	1	977	5.16
66	Zn	72	1	401	3.82
75	As	72	1	109	7.49
78	Se	72	1	403	14.32
95	Mo	72	1	380	14.77
107	Ag	115	1	113	6.27
111	Cd	115	1	40	78.28
118	Sn	115	1	430	5.04
121	Sb	115	1	121	28.95
137	Ba	115	1	166	8.90
205	Tl	165	1	448	7.77
208	Pb	165	1	1264	1.33
232	Th	165	1	487	11.27
238	U	165	1	537	11.22

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	484912	0.65
45	Sc	1	2571304	0.60
72	Ge	1	1504883	0.13
115	In	1	4325473	1.59
165	Ho	1	8321989	1.84

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#
Date Acquired:	Nov 16 2011 04:20 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1131044
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:18 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	3	173.23
51	V	72	1	163	111.38
52	Cr	72	1	1723	24.59
55	Mn	72	1	2864	4.21
59	Co	72	1	163	8.43
60	Ni	72	1	187	15.49
63	Cu	72	1	893	7.80
66	Zn	72	1	327	3.04
75	As	72	1	103	7.70
78	Se	72	1	373	4.80
95	Mo	72	1	183	33.63
107	Ag	115	1	40	90.09
111	Cd	115	1	50	71.21
118	Sn	115	1	297	23.81
121	Sb	115	1	59	31.41
137	Ba	115	1	127	12.66
205	Tl	165	1	254	6.00
208	Pb	165	1	931	9.29
232	Th	165	1	210	16.75
238	U	165	1	211	6.24

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	488646	0.65
45	Sc	1	2529221	1.00
72	Ge	1	1504199	1.62
115	In	1	4300457	0.74
165	Ho	1	8234026	0.63

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\107ICAL.D\107ICAL.D#
Date Acquired:	Nov 16 2011 04:23 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1131031
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:21 pm
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	73677	1.11
51	V	72	1	2224101	2.01
52	Cr	72	1	2347723	0.79
55	Mn	72	1	2138124	1.73
59	Co	72	1	3294861	2.45
60	Ni	72	1	789957	1.25
63	Cu	72	1	1961538	1.40
66	Zn	72	1	318800	1.10
75	As	72	1	228914	1.39
78	Se	72	1	35374	0.90
95	Mo	72	1	913432	0.92
107	Ag	115	1	2843596	0.75
111	Cd	115	1	458724	0.43
118	Sn	115	1	1243401	0.41
121	Sb	115	1	1291254	0.76
137	Ba	115	1	560378	0.82
205	Tl	165	1	4928293	2.02
208	Pb	165	1	6745388	1.30
232	Th	165	1	6675383	1.28
238	U	165	1	7226306	2.14

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	485834	0.45	488646	99.4	30 - 120	
45	Sc	1	2539578	1.57	2529221	100.4	30 - 120	
72	Ge	1	1478431	1.58	1504199	98.3	30 - 120	
115	In	1	4328375	0.63	4300457	100.6	30 - 120	
165	Ho	1	8292201	1.01	8234026	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\108_CCV.D\108_CCV.D#
Date Acquired:	Nov 16 2011 04:26 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.25	ppb	11.94	50	104.5	90 - 110	
51	V	72	1	51.57	ppb	7.72	50	103.1	90 - 110	
52	Cr	72	1	52.04	ppb	6.45	50	104.1	90 - 110	
55	Mn	72	1	52.42	ppb	8.49	50	104.8	90 - 110	
59	Co	72	1	52.49	ppb	6.36	50	105.0	90 - 110	
60	Ni	72	1	51.59	ppb	7.28	50	103.2	90 - 110	
63	Cu	72	1	51.50	ppb	9.11	50	103.0	90 - 110	
66	Zn	72	1	51.50	ppb	7.61	50	103.0	90 - 110	
75	As	72	1	51.43	ppb	7.72	50	102.9	90 - 110	
78	Se	72	1	50.98	ppb	6.86	50	102.0	90 - 110	
95	Mo	72	1	51.30	ppb	7.60	50	102.6	90 - 110	
107	Ag	115	1	52.91	ppb	9.68	50	105.8	90 - 110	
111	Cd	115	1	52.64	ppb	10.91	50	105.3	90 - 110	
118	Sn	115	1	50.69	ppb	10.74	50	101.4	90 - 110	
121	Sb	115	1	50.81	ppb	10.34	50	101.6	90 - 110	
137	Ba	115	1	52.24	ppb	10.33	50	104.5	90 - 110	
205	Tl	165	1	53.19	ppb	10.00	50	106.4	90 - 110	
208	Pb	165	1	52.32	ppb	10.13	50	104.6	90 - 110	
232	Th	165	1	53.09	ppb	10.91	50	106.2	90 - 110	
238	U	165	1	52.51	ppb	10.51	50	105.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	464065	7.38	488646	95.0	30 - 120	
45	Sc	1	2419249	8.28	2529221	95.7	30 - 120	
72	Ge	1	1431349	6.58	1504199	95.2	30 - 120	
115	In	1	4135947	9.25	4300457	96.2	30 - 120	
165	Ho	1	7934280	9.00	8234026	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\109_CCB.D\109_CCB.D#
Date Acquired: Nov 16 2011 04:28 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.018	ppb	113.97	1.00	
51	V	72	1	0.009	ppb	36.33	1.00	
52	Cr	72	1	0.012	ppb	63.10	1.00	
55	Mn	72	1	0.003	ppb	133.93	1.00	
59	Co	72	1	0.005	ppb	26.47	1.00	
60	Ni	72	1	0.011	ppb	4.61	1.00	
63	Cu	72	1	0.001	ppb	357.91	1.00	
66	Zn	72	1	0.018	ppb	31.59	1.00	
75	As	72	1	0.016	ppb	54.14	1.00	
78	Se	72	1	0.176	ppb	202.50	1.00	
95	Mo	72	1	0.016	ppb	31.62	1.00	
107	Ag	115	1	0.009	ppb	15.82	1.00	
111	Cd	115	1	0.003	ppb	128.44	1.00	
118	Sn	115	1	0.046	ppb	3.56	1.00	
121	Sb	115	1	0.017	ppb	25.71	1.00	
137	Ba	115	1	0.002	ppb	229.23	1.00	
205	Tl	165	1	0.023	ppb	7.19	1.00	
208	Pb	165	1	0.009	ppb	2.37	1.00	
232	Th	165	1	0.042	ppb	4.49	1.00	
238	U	165	1	0.013	ppb	5.76	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	481517	0.20	488646	98.5	30 - 120	
45	Sc	1	2520002	0.62	2529221	99.6	30 - 120	
72	Ge	1	1463004	1.16	1504199	97.3	30 - 120	
115	In	1	4258906	0.78	4300457	99.0	30 - 120	
165	Ho	1	8321606	0.72	8234026	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\110WASH.D\110WASH.D#
Date Acquired:	Nov 16 2011 04:31 pm
Operator:	TEL
Sample Name:	LLICV-1131045
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.102	ppb	5.44	1.30	
51	V	72	1	5.046	ppb	1.65	6.50	
52	Cr	72	1	2.126	ppb	1.69	2.60	
55	Mn	72	1	1.082	ppb	1.55	1.30	
59	Co	72	1	1.044	ppb	1.45	1.30	
60	Ni	72	1	2.163	ppb	1.06	2.60	
63	Cu	72	1	2.007	ppb	1.81	2.60	
66	Zn	72	1	10.240	ppb	1.67	13.00	
75	As	72	1	5.282	ppb	0.73	6.50	
78	Se	72	1	5.448	ppb	5.10	6.50	
95	Mo	72	1	2.145	ppb	0.41	2.60	
107	Ag	115	1	5.215	ppb	0.90	6.50	
111	Cd	115	1	1.097	ppb	2.22	1.30	
118	Sn	115	1	10.240	ppb	0.33	13.00	
121	Sb	115	1	2.032	ppb	1.67	2.60	
137	Ba	115	1	1.036	ppb	2.43	1.30	
205	Tl	165	1	1.050	ppb	2.30	1.30	
208	Pb	165	1	1.021	ppb	2.18	1.30	
232	Th	165	1	2.078	ppb	1.99	2.60	
238	U	165	1	1.015	ppb	2.14	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	480952	1.20	488646	98.4	30 - 120	
45	Sc	1	2517699	0.55	2529221	99.5	30 - 120	
72	Ge	1	1467530	1.23	1504199	97.6	30 - 120	
115	In	1	4284747	0.76	4300457	99.6	30 - 120	
165	Ho	1	8349200	0.83	8234026	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\111_MS.D\111_MS.D#
Date Acquired:	Nov 16 2011 04:34 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-4-l ms
Misc Info:	MATRIX SPIKE
Vial Number:	3111
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	43.53	0.00	ppb	0.96	40	108.8	50 - 150	
51 V	72	1	42.55	0.16	ppb	1.33	40	106.0	50 - 150	
52 Cr	72	1	41.55	0.06	ppb	1.03	40	103.7	50 - 150	
55 Mn	72	1	1838.00	1803.00	ppb	1.04	40	99.7	50 - 150	
59 Co	72	1	41.13	0.17	ppb	1.69	40	102.4	50 - 150	
60 Ni	72	1	40.06	1.15	ppb	1.89	40	97.4	50 - 150	
63 Cu	72	1	37.36	0.17	ppb	1.95	40	93.0	50 - 150	
66 Zn	72	1	40.98	2.00	ppb	1.10	40	97.6	50 - 150	
75 As	72	1	63.38	20.91	ppb	1.43	40	104.1	50 - 150	
78 Se	72	1	42.35	0.37	ppb	2.69	40	104.9	50 - 150	
95 Mo	72	1	44.16	0.31	ppb	1.36	40	109.5	50 - 150	
107 Ag	115	1	38.06	0.00	ppb	1.13	40	95.1	50 - 150	
111 Cd	115	1	41.17	0.01	ppb	1.16	40	102.9	50 - 150	
118 Sn	115	1	40.96	0.03	ppb	0.37	40	102.3	50 - 150	
121 Sb	115	1	41.23	0.05	ppb	0.42	40	103.0	50 - 150	
137 Ba	115	1	514.90	475.80	ppb	0.69	40	99.8	50 - 150	
205 Tl	165	1	41.31	0.00	ppb	0.15	40	103.3	50 - 150	
208 Pb	165	1	39.06	0.01	ppb	0.97	40	97.6	50 - 150	
232 Th	165	1	42.31	0.01	ppb	0.92	40	105.8	50 - 150	
238 U	165	1	42.31	0.04	ppb	0.72	40	105.7	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	441594	0.96	488646	90.4	30 - 120	
45 Sc	1	2317665	1.91	2529221	91.6	30 - 120	
72 Ge	1	1320295	1.80	1504199	87.8	30 - 120	
115 In	1	3845209	1.09	4300457	89.4	30 - 120	
165 Ho	1	7535360	0.54	8234026	91.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\112_MSD.D\112_MSD.D#
Date Acquired: Nov 16 2011 04:37 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-4-m msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3112
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\111_MS.D\111_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	44.07	ppb	2.00	43.53	1.23	20	
51	V	72	1	42.57	ppb	1.02	42.55	0.05	20	
52	Cr	72	1	41.93	ppb	2.23	41.55	0.91	20	
55	Mn	72	1	1839.00	ppb	2.17	1838.00	0.05	20	
59	Co	72	1	41.40	ppb	1.15	41.13	0.65	20	
60	Ni	72	1	39.83	ppb	1.93	40.06	0.58	20	
63	Cu	72	1	37.10	ppb	0.15	37.36	0.70	20	
66	Zn	72	1	43.80	ppb	0.28	40.98	6.65	20	
75	As	72	1	63.36	ppb	0.61	63.38	0.03	20	
78	Se	72	1	42.83	ppb	1.66	42.35	1.13	20	
95	Mo	72	1	43.66	ppb	0.47	44.16	1.14	20	
107	Ag	115	1	38.18	ppb	1.24	38.06	0.31	20	
111	Cd	115	1	40.82	ppb	0.77	41.17	0.85	20	
118	Sn	115	1	40.91	ppb	1.21	40.96	0.12	20	
121	Sb	115	1	41.12	ppb	0.97	41.23	0.27	20	
137	Ba	115	1	512.50	ppb	1.70	514.90	0.47	20	
205	Tl	165	1	41.37	ppb	0.39	41.31	0.15	20	
208	Pb	165	1	38.69	ppb	0.21	39.06	0.95	20	
232	Th	165	1	42.07	ppb	0.67	42.31	0.57	20	
238	U	165	1	41.92	ppb	1.51	42.31	0.93	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	437537	1.05	488646	89.5	30 - 120	
45	Sc	1	2305115	1.23	2529221	91.1	30 - 120	
72	Ge	1	1309021	0.23	1504199	87.0	30 - 120	
115	In	1	3820818	0.63	4300457	88.8	30 - 120	
165	Ho	1	7450733	0.34	8234026	90.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\113SMPL.D\113SMPL.D#
Date Acquired:	Nov 16 2011 04:40 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-5-d
Misc Info:	
Vial Number:	3201
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	1.03	3600	
51	V	72	1	0.37	0.37	ppb	5.64	3600	
52	Cr	72	1	0.09	0.09	ppb	7.67	3600	
55	Mn	72	1	1,692.00	1692.00	ppb	1.04	18000	
59	Co	72	1	0.25	0.25	ppb	4.99	3600	
60	Ni	72	1	1.20	1.20	ppb	5.54	3600	
63	Cu	72	1	0.14	0.14	ppb	11.68	3600	
66	Zn	72	1	2.50	2.50	ppb	1.83	3600	
75	As	72	1	14.80	14.80	ppb	1.64	3600	
78	Se	72	1	0.24	0.24	ppb	56.89	3600	
95	Mo	72	1	0.12	0.12	ppb	1.60	3600	
107	Ag	115	1	0.00	0.00	ppb	47.73	3600	
111	Cd	115	1	0.01	0.01	ppb	17.78	3600	
118	Sn	115	1	0.05	0.05	ppb	4.91	3600	
121	Sb	115	1	0.06	0.06	ppb	6.50	3600	
137	Ba	115	1	528.90	528.90	ppb	0.88	3600	
205	Tl	165	1	0.01	0.01	ppb	19.10	3600	
208	Pb	165	1	0.02	0.02	ppb	4.42	3600	
232	Th	165	1	0.03	0.03	ppb	10.22	1000	
238	U	165	1	0.21	0.21	ppb	0.82	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	432049	0.73	488646	88.4	30 - 120	
45	Sc	1	2290595	0.87	2529221	90.6	30 - 120	
72	Ge	1	1308248	2.11	1504199	87.0	30 - 120	
115	In	1	3815955	0.90	4300457	88.7	30 - 120	
165	Ho	1	7514542	0.63	8234026	91.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\114SMPL.D\114SMPL.D#
Date Acquired:	Nov 16 2011 04:43 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-6-d
Misc Info:	
Vial Number:	3202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1146.90	3600	
51	V	72	1	0.23	0.23	ppb	0.44	3600	
52	Cr	72	1	0.08	0.08	ppb	7.57	3600	
55	Mn	72	1	209.40	209.40	ppb	0.30	18000	
59	Co	72	1	0.08	0.08	ppb	10.88	3600	
60	Ni	72	1	1.43	1.43	ppb	3.78	3600	
63	Cu	72	1	0.13	0.13	ppb	4.58	3600	
66	Zn	72	1	3.25	3.25	ppb	2.23	3600	
75	As	72	1	0.61	0.61	ppb	3.73	3600	
78	Se	72	1	0.10	0.10	ppb	290.80	3600	
95	Mo	72	1	0.78	0.78	ppb	3.93	3600	
107	Ag	115	1	0.00	0.00	ppb	43.19	3600	
111	Cd	115	1	0.01	0.01	ppb	14.82	3600	
118	Sn	115	1	0.11	0.11	ppb	14.04	3600	
121	Sb	115	1	0.03	0.03	ppb	16.54	3600	
137	Ba	115	1	2,387.00	2387.00	ppb	0.65	3600	
205	Tl	165	1	0.02	0.02	ppb	24.51	3600	
208	Pb	165	1	0.02	0.02	ppb	22.81	3600	
232	Th	165	1	0.01	0.01	ppb	11.94	1000	
238	U	165	1	0.04	0.04	ppb	4.91	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	417266	0.32	488646	85.4	30 - 120	
45	Sc	1	2261056	0.80	2529221	89.4	30 - 120	
72	Ge	1	1238859	0.47	1504199	82.4	30 - 120	
115	In	1	3587748	0.24	4300457	83.4	30 - 120	
165	Ho	1	7181781	0.90	8234026	87.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\115SMPL.D\115SMPL.D#
Date Acquired: Nov 16 2011 04:46 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-7-d
Misc Info:
Vial Number: 3203
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	155.02	3600	
51	V	72	1	0.17	0.17	ppb	5.93	3600	
52	Cr	72	1	0.05	0.05	ppb	15.22	3600	
55	Mn	72	1	1,836.00	1836.00	ppb	0.36	18000	
59	Co	72	1	0.17	0.17	ppb	4.11	3600	
60	Ni	72	1	1.04	1.04	ppb	2.72	3600	
63	Cu	72	1	0.16	0.16	ppb	3.06	3600	
66	Zn	72	1	2.49	2.49	ppb	2.03	3600	
75	As	72	1	21.06	21.06	ppb	0.10	3600	
78	Se	72	1	0.36	0.36	ppb	20.59	3600	
95	Mo	72	1	0.28	0.28	ppb	2.77	3600	
107	Ag	115	1	0.00	0.00	ppb	65.47	3600	
111	Cd	115	1	0.01	0.01	ppb	90.65	3600	
118	Sn	115	1	0.02	0.02	ppb	23.59	3600	
121	Sb	115	1	0.03	0.03	ppb	12.81	3600	
137	Ba	115	1	492.40	492.40	ppb	1.08	3600	
205	Tl	165	1	0.00	0.00	ppb	19.95	3600	
208	Pb	165	1	0.00	0.00	ppb	19.69	3600	
232	Th	165	1	0.01	0.01	ppb	35.50	1000	
238	U	165	1	0.03	0.03	ppb	0.83	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	432351	1.07	488646	88.5	30 - 120	
45	Sc	1	2282042	1.04	2529221	90.2	30 - 120	
72	Ge	1	1314398	0.69	1504199	87.4	30 - 120	
115	In	1	3801953	0.63	4300457	88.4	30 - 120	
165	Ho	1	7390976	1.06	8234026	89.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\116SMPL.D\116SMPL.D#
Date Acquired: Nov 16 2011 04:49 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-1-h
Misc Info:
Vial Number: 3204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	143.00	3600	
51	V	72	1	0.07	0.07	ppb	20.55	3600	
52	Cr	72	1	0.12	0.12	ppb	6.68	3600	
55	Mn	72	1	2,838.00	2838.00	ppb	1.00	18000	
59	Co	72	1	4.36	4.36	ppb	1.16	3600	
60	Ni	72	1	14.38	14.38	ppb	1.87	3600	
63	Cu	72	1	0.36	0.36	ppb	7.60	3600	
66	Zn	72	1	2.69	2.69	ppb	1.08	3600	
75	As	72	1	3.62	3.62	ppb	3.93	3600	
78	Se	72	1	0.56	0.56	ppb	10.29	3600	
95	Mo	72	1	3.32	3.32	ppb	2.08	3600	
107	Ag	115	1	0.00	0.00	ppb	43.07	3600	
111	Cd	115	1	0.01	0.01	ppb	71.19	3600	
118	Sn	115	1	0.03	0.03	ppb	11.86	3600	
121	Sb	115	1	0.22	0.22	ppb	5.71	3600	
137	Ba	115	1	194.50	194.50	ppb	0.73	3600	
205	Tl	165	1	0.00	0.00	ppb	28.02	3600	
208	Pb	165	1	0.01	0.01	ppb	5.83	3600	
232	Th	165	1	0.00	0.00	ppb	12.38	1000	
238	U	165	1	2.89	2.89	ppb	1.79	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	435578	1.71	488646	89.1	30 - 120	
45	Sc	1	2284480	1.06	2529221	90.3	30 - 120	
72	Ge	1	1278445	0.45	1504199	85.0	30 - 120	
115	In	1	3759477	0.94	4300457	87.4	30 - 120	
165	Ho	1	7378823	1.19	8234026	89.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\117SMPL.D\117SMPL.D#
Date Acquired:	Nov 16 2011 04:52 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-2-d
Misc Info:	
Vial Number:	3205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	0.00	3600	
51	V	72	1	1.26	1.26	ppb	2.26	3600	
52	Cr	72	1	0.08	0.08	ppb	13.03	3600	
55	Mn	72	1	245.10	245.10	ppb	1.22	18000	
59	Co	72	1	0.32	0.32	ppb	0.97	3600	
60	Ni	72	1	1.50	1.50	ppb	4.22	3600	
63	Cu	72	1	0.22	0.22	ppb	6.58	3600	
66	Zn	72	1	2.40	2.40	ppb	2.48	3600	
75	As	72	1	3.42	3.42	ppb	1.60	3600	
78	Se	72	1	0.09	0.09	ppb	450.33	3600	
95	Mo	72	1	0.37	0.37	ppb	6.27	3600	
107	Ag	115	1	0.00	0.00	ppb	236.66	3600	
111	Cd	115	1	0.01	0.01	ppb	18.57	3600	
118	Sn	115	1	0.01	0.01	ppb	44.33	3600	
121	Sb	115	1	0.15	0.15	ppb	7.63	3600	
137	Ba	115	1	533.40	533.40	ppb	1.17	3600	
205	Tl	165	1	0.00	0.00	ppb	35.58	3600	
208	Pb	165	1	0.02	0.02	ppb	9.68	3600	
232	Th	165	1	0.00	0.00	ppb	34.61	1000	
238	U	165	1	0.30	0.30	ppb	0.12	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	443516	0.77	488646	90.8	30 - 120	
45	Sc	1	2367720	1.39	2529221	93.6	30 - 120	
72	Ge	1	1321596	0.66	1504199	87.9	30 - 120	
115	In	1	3835761	0.32	4300457	89.2	30 - 120	
165	Ho	1	7574483	0.66	8234026	92.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\118SMPL.D\118SMPL.D#
Date Acquired:	Nov 16 2011 04:55 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-3-d
Misc Info:	
Vial Number:	3206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	161.12	3600	
51	V	72	1	1.18	1.18	ppb	3.86	3600	
52	Cr	72	1	0.32	0.32	ppb	6.87	3600	
55	Mn	72	1	565.60	565.60	ppb	1.01	18000	
59	Co	72	1	0.20	0.20	ppb	2.78	3600	
60	Ni	72	1	1.88	1.88	ppb	1.11	3600	
63	Cu	72	1	0.21	0.21	ppb	6.02	3600	
66	Zn	72	1	2.19	2.19	ppb	1.11	3600	
75	As	72	1	7.63	7.63	ppb	0.08	3600	
78	Se	72	1	0.40	0.40	ppb	38.05	3600	
95	Mo	72	1	0.68	0.68	ppb	2.20	3600	
107	Ag	115	1	0.00	0.00	ppb	1.23	3600	
111	Cd	115	1	0.00	0.00	ppb	274.23	3600	
118	Sn	115	1	0.04	0.04	ppb	17.78	3600	
121	Sb	115	1	0.14	0.14	ppb	5.52	3600	
137	Ba	115	1	336.90	336.90	ppb	1.15	3600	
205	Tl	165	1	0.00	0.00	ppb	15.47	3600	
208	Pb	165	1	0.01	0.01	ppb	16.24	3600	
232	Th	165	1	0.00	0.00	ppb	40.02	1000	
238	U	165	1	0.88	0.88	ppb	0.34	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454946	0.54	488646	93.1	30 - 120	
45	Sc	1	2344463	1.24	2529221	92.7	30 - 120	
72	Ge	1	1330569	0.90	1504199	88.5	30 - 120	
115	In	1	3832405	0.60	4300457	89.1	30 - 120	
165	Ho	1	7618400	0.43	8234026	92.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\119_CCV.D\119_CCV.D#
Date Acquired: Nov 16 2011 04:58 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.86	ppb	1.51	50	101.7	90 - 110	
51	V	72	1	50.49	ppb	2.03	50	101.0	90 - 110	
52	Cr	72	1	50.61	ppb	1.68	50	101.2	90 - 110	
55	Mn	72	1	50.36	ppb	1.42	50	100.7	90 - 110	
59	Co	72	1	51.03	ppb	1.44	50	102.1	90 - 110	
60	Ni	72	1	49.56	ppb	1.25	50	99.1	90 - 110	
63	Cu	72	1	49.72	ppb	0.67	50	99.4	90 - 110	
66	Zn	72	1	49.63	ppb	0.90	50	99.3	90 - 110	
75	As	72	1	49.61	ppb	1.15	50	99.2	90 - 110	
78	Se	72	1	50.88	ppb	2.86	50	101.8	90 - 110	
95	Mo	72	1	49.56	ppb	0.55	50	99.1	90 - 110	
107	Ag	115	1	51.30	ppb	0.99	50	102.6	90 - 110	
111	Cd	115	1	50.27	ppb	1.14	50	100.5	90 - 110	
118	Sn	115	1	48.33	ppb	1.72	50	96.7	90 - 110	
121	Sb	115	1	48.49	ppb	1.22	50	97.0	90 - 110	
137	Ba	115	1	50.14	ppb	1.03	50	100.3	90 - 110	
205	Tl	165	1	50.44	ppb	1.72	50	100.9	90 - 110	
208	Pb	165	1	49.62	ppb	1.46	50	99.2	90 - 110	
232	Th	165	1	50.21	ppb	1.42	50	100.4	90 - 110	
238	U	165	1	49.87	ppb	0.77	50	99.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	479121	0.78	488646	98.1	30 - 120	
45	Sc	1	2479239	1.44	2529221	98.0	30 - 120	
72	Ge	1	1452412	1.43	1504199	96.6	30 - 120	
115	In	1	4199257	1.44	4300457	97.6	30 - 120	
165	Ho	1	8179487	1.57	8234026	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\120_CCB.D\120_CCB.D#
Date Acquired: Nov 16 2011 05:00 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.023	ppb	59.58	1.00	
51	V	72	1	0.012	ppb	89.79	1.00	
52	Cr	72	1	0.014	ppb	64.79	1.00	
55	Mn	72	1	0.046	ppb	13.74	1.00	
59	Co	72	1	0.005	ppb	25.67	1.00	
60	Ni	72	1	0.004	ppb	125.09	1.00	
63	Cu	72	1	0.003	ppb	163.62	1.00	
66	Zn	72	1	0.020	ppb	67.66	1.00	
75	As	72	1	0.010	ppb	72.09	1.00	
78	Se	72	1	0.081	ppb	285.98	1.00	
95	Mo	72	1	0.004	ppb	57.81	1.00	
107	Ag	115	1	0.007	ppb	31.53	1.00	
111	Cd	115	1	0.002	ppb	277.49	1.00	
118	Sn	115	1	0.033	ppb	27.47	1.00	
121	Sb	115	1	0.010	ppb	11.77	1.00	
137	Ba	115	1	0.028	ppb	10.79	1.00	
205	Tl	165	1	0.017	ppb	8.97	1.00	
208	Pb	165	1	0.006	ppb	24.17	1.00	
232	Th	165	1	0.034	ppb	3.02	1.00	
238	U	165	1	0.011	ppb	3.42	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	484032	0.27	488646	99.1	30 - 120	
45	Sc	1	2500569	1.12	2529221	98.9	30 - 120	
72	Ge	1	1457221	0.48	1504199	96.9	30 - 120	
115	In	1	4226874	0.83	4300457	98.3	30 - 120	
165	Ho	1	8149357	1.41	8234026	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\121WASH.D\121WASH.D#
Date Acquired:	Nov 16 2011 05:03 pm
Operator:	TEL
Sample Name:	LLICV-1131923
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.081 ppb	18.74	1.30	
51	V	72	1	4.847 ppb	7.14	6.50	
52	Cr	72	1	1.996 ppb	8.04	2.60	
55	Mn	72	1	1.042 ppb	6.60	1.30	
59	Co	72	1	0.968 ppb	8.93	1.30	
60	Ni	72	1	1.994 ppb	7.01	2.60	
63	Cu	72	1	1.932 ppb	7.68	2.60	
66	Zn	72	1	9.790 ppb	7.58	13.00	
75	As	72	1	4.957 ppb	7.65	6.50	
78	Se	72	1	5.186 ppb	11.77	6.50	
95	Mo	72	1	1.979 ppb	10.57	2.60	
107	Ag	115	1	4.880 ppb	9.33	6.50	
111	Cd	115	1	1.019 ppb	10.56	1.30	
118	Sn	115	1	9.736 ppb	11.12	13.00	
121	Sb	115	1	1.890 ppb	10.78	2.60	
137	Ba	115	1	1.008 ppb	9.80	1.30	
205	Tl	165	1	0.992 ppb	10.19	1.30	
208	Pb	165	1	0.965 ppb	8.97	1.30	
232	Th	165	1	1.939 ppb	9.04	2.60	
238	U	165	1	0.962 ppb	9.12	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501648	6.51	488646	102.7	30 - 120	
45	Sc	1	2646021	10.61	2529221	104.6	30 - 120	
72	Ge	1	1529389	7.74	1504199	101.7	30 - 120	
115	In	1	4527625	10.45	4300457	105.3	30 - 120	
165	Ho	1	8617830	9.03	8234026	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\122SMPL.D\122SMPL.D#
Date Acquired:	Nov 16 2011 05:06 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-4-d
Misc Info:	
Vial Number:	3207
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1493.30	3600	
51	V	72	1	0.34	0.34	ppb	11.33	3600	
52	Cr	72	1	0.41	0.41	ppb	2.38	3600	
55	Mn	72	1	4,978.00	4978.00	ppb	1.91	18000	
59	Co	72	1	6.66	6.66	ppb	1.84	3600	
60	Ni	72	1	18.01	18.01	ppb	1.09	3600	
63	Cu	72	1	0.36	0.36	ppb	5.97	3600	
66	Zn	72	1	4.41	4.41	ppb	3.28	3600	
75	As	72	1	5.86	5.86	ppb	3.44	3600	
78	Se	72	1	0.36	0.36	ppb	82.96	3600	
95	Mo	72	1	0.86	0.86	ppb	0.33	3600	
107	Ag	115	1	0.00	0.00	ppb	101.61	3600	
111	Cd	115	1	0.00	0.00	ppb	514.15	3600	
118	Sn	115	1	0.02	0.02	ppb	10.86	3600	
121	Sb	115	1	0.10	0.10	ppb	1.48	3600	
137	Ba	115	1	1,087.00	1087.00	ppb	1.85	3600	
205	Tl	165	1	0.05	0.05	ppb	3.31	3600	
208	Pb	165	1	0.01	0.01	ppb	21.59	3600	
232	Th	165	1	0.01	0.01	ppb	11.18	1000	
238	U	165	1	1.65	1.65	ppb	0.86	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	436362	0.42	488646	89.3	30 - 120	
45	Sc	1	2347612	2.72	2529221	92.8	30 - 120	
72	Ge	1	1295931	2.55	1504199	86.2	30 - 120	
115	In	1	3821518	1.44	4300457	88.9	30 - 120	
165	Ho	1	7472965	0.89	8234026	90.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\123SMPL.D\123SMPL.D#
Date Acquired:	Nov 16 2011 05:09 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-5-d
Misc Info:	
Vial Number:	3208
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	0.00	3600	
51	V	72	1	0.15	0.15	ppb	12.23	3600	
52	Cr	72	1	0.08	0.08	ppb	6.62	3600	
55	Mn	72	1	777.40	777.40	ppb	1.46	18000	
59	Co	72	1	0.18	0.18	ppb	6.07	3600	
60	Ni	72	1	1.16	1.16	ppb	5.51	3600	
63	Cu	72	1	0.22	0.22	ppb	7.18	3600	
66	Zn	72	1	2.59	2.59	ppb	0.97	3600	
75	As	72	1	6.53	6.53	ppb	2.36	3600	
78	Se	72	1	0.29	0.29	ppb	98.37	3600	
95	Mo	72	1	0.81	0.81	ppb	7.07	3600	
107	Ag	115	1	0.00	0.00	ppb	119.69	3600	
111	Cd	115	1	0.00	0.00	ppb	100.60	3600	
118	Sn	115	1	0.02	0.02	ppb	14.20	3600	
121	Sb	115	1	0.07	0.07	ppb	2.96	3600	
137	Ba	115	1	284.50	284.50	ppb	1.28	3600	
205	Tl	165	1	0.01	0.01	ppb	27.21	3600	
208	Pb	165	1	0.01	0.01	ppb	9.59	3600	
232	Th	165	1	0.00	0.00	ppb	23.75	1000	
238	U	165	1	3.66	3.66	ppb	0.55	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	436692	0.08	488646	89.4	30 - 120	
45	Sc	1	2348878	1.84	2529221	92.9	30 - 120	
72	Ge	1	1340934	1.04	1504199	89.1	30 - 120	
115	In	1	3856683	1.15	4300457	89.7	30 - 120	
165	Ho	1	7410671	0.33	8234026	90.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\124SMPL.D\124SMPL.D#		
Date Acquired:	Nov 16 2011 05:12 pm		
Acq. Method:	NormISIS.M	**QC Summary:**	
Operator:	TEL	**Analytes:**	**Pass**
Sample Name:	280-22775-e-6-d	**ISTD:**	**Pass**
Misc Info:			
Vial Number:	3209		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 04:23 pm		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	306.71	3600	
51	V	72	1	0.23	0.23	ppb	1.67	3600	
52	Cr	72	1	0.07	0.07	ppb	8.01	3600	
55	Mn	72	1	1,815.00	1815.00	ppb	3.83	18000	
59	Co	72	1	1.48	1.48	ppb	6.33	3600	
60	Ni	72	1	8.44	8.44	ppb	4.38	3600	
63	Cu	72	1	0.51	0.51	ppb	2.46	3600	
66	Zn	72	1	5.46	5.46	ppb	3.13	3600	
75	As	72	1	27.45	27.45	ppb	3.08	3600	
78	Se	72	1	0.97	0.97	ppb	30.26	3600	
95	Mo	72	1	3.92	3.92	ppb	4.58	3600	
107	Ag	115	1	0.00	0.00	ppb	65.23	3600	
111	Cd	115	1	0.07	0.07	ppb	15.56	3600	
118	Sn	115	1	0.07	0.07	ppb	13.42	3600	
121	Sb	115	1	0.14	0.14	ppb	4.18	3600	
137	Ba	115	1	224.60	224.60	ppb	4.58	3600	
205	Tl	165	1	0.09	0.09	ppb	6.14	3600	
208	Pb	165	1	0.01	0.01	ppb	27.80	3600	
232	Th	165	1	0.00	0.00	ppb	22.81	1000	
238	U	165	1	9.98	9.98	ppb	5.46	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	439073	3.70	488646	89.9	30 - 120	
45	Sc	1	2338162	6.09	2529221	92.4	30 - 120	
72	Ge	1	1308043	4.15	1504199	87.0	30 - 120	
115	In	1	3807001	5.06	4300457	88.5	30 - 120	
165	Ho	1	7588561	5.31	8234026	92.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\125SMPL.D\125SMPL.D#
Date Acquired:	Nov 16 2011 05:15 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-7-d
Misc Info:	
Vial Number:	3210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1222.60	3600	
51	V	72	1	0.50	0.50	ppb	8.14	3600	
52	Cr	72	1	0.11	0.11	ppb	8.19	3600	
55	Mn	72	1	848.20	848.20	ppb	0.99	18000	
59	Co	72	1	0.94	0.94	ppb	2.32	3600	
60	Ni	72	1	4.62	4.62	ppb	0.86	3600	
63	Cu	72	1	0.24	0.24	ppb	5.01	3600	
66	Zn	72	1	3.76	3.76	ppb	0.44	3600	
75	As	72	1	60.79	60.79	ppb	0.88	3600	
78	Se	72	1	0.59	0.59	ppb	28.42	3600	
95	Mo	72	1	11.74	11.74	ppb	0.84	3600	
107	Ag	115	1	0.00	0.00	ppb	129.71	3600	
111	Cd	115	1	0.01	0.01	ppb	60.92	3600	
118	Sn	115	1	0.04	0.04	ppb	23.60	3600	
121	Sb	115	1	0.07	0.07	ppb	7.69	3600	
137	Ba	115	1	154.10	154.10	ppb	1.03	3600	
205	Tl	165	1	0.02	0.02	ppb	4.93	3600	
208	Pb	165	1	0.01	0.01	ppb	11.31	3600	
232	Th	165	1	0.00	0.00	ppb	58.75	1000	
238	U	165	1	1.91	1.91	ppb	0.88	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	424482	0.52	488646	86.9	30 - 120	
45	Sc	1	2271231	0.97	2529221	89.8	30 - 120	
72	Ge	1	1272834	1.68	1504199	84.6	30 - 120	
115	In	1	3712109	0.45	4300457	86.3	30 - 120	
165	Ho	1	7272182	0.45	8234026	88.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\126SMPL.D\126SMPL.D#
Date Acquired: Nov 16 2011 05:18 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-8-d
Misc Info:
Vial Number: 3211
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	145.72	3600	
51	V	72	1	0.06	0.06	ppb	32.29	3600	
52	Cr	72	1	0.05	0.05	ppb	12.68	3600	
55	Mn	72	1	3,282.00	3282.00	ppb	0.77	18000	
59	Co	72	1	2.75	2.75	ppb	1.11	3600	
60	Ni	72	1	3.73	3.73	ppb	1.69	3600	
63	Cu	72	1	0.17	0.17	ppb	2.58	3600	
66	Zn	72	1	2.47	2.47	ppb	0.80	3600	
75	As	72	1	71.00	71.00	ppb	1.11	3600	
78	Se	72	1	1.71	1.71	ppb	24.62	3600	
95	Mo	72	1	0.71	0.71	ppb	8.22	3600	
107	Ag	115	1	0.00	0.00	ppb	35.86	3600	
111	Cd	115	1	0.01	0.01	ppb	58.28	3600	
118	Sn	115	1	0.03	0.03	ppb	17.33	3600	
121	Sb	115	1	0.04	0.04	ppb	2.90	3600	
137	Ba	115	1	313.10	313.10	ppb	0.59	3600	
205	Tl	165	1	0.00	0.00	ppb	21.27	3600	
208	Pb	165	1	0.00	0.00	ppb	29.93	3600	
232	Th	165	1	0.00	0.00	ppb	24.53	1000	
238	U	165	1	0.37	0.37	ppb	2.62	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	418069	0.30	488646	85.6	30 - 120	
45	Sc	1	2229967	1.02	2529221	88.2	30 - 120	
72	Ge	1	1239749	1.22	1504199	82.4	30 - 120	
115	In	1	3620498	0.36	4300457	84.2	30 - 120	
165	Ho	1	7130826	0.25	8234026	86.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\127SMPL.D\127SMPL.D#
Date Acquired:	Nov 16 2011 05:21 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-9-d
Misc Info:	
Vial Number:	3212
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	160.59	3600	
51	V	72	1	0.01	0.01	ppb	210.47	3600	
52	Cr	72	1	0.04	0.04	ppb	21.75	3600	
55	Mn	72	1	0.48	0.48	ppb	11.75	18000	
59	Co	72	1	0.00	0.00	ppb	98.41	3600	
60	Ni	72	1	0.06	0.06	ppb	21.81	3600	
63	Cu	72	1	0.35	0.35	ppb	6.00	3600	
66	Zn	72	1	1.61	1.61	ppb	2.39	3600	
75	As	72	1	0.02	0.02	ppb	42.42	3600	
78	Se	72	1	0.06	0.06	ppb	198.91	3600	
95	Mo	72	1	0.01	0.01	ppb	52.88	3600	
107	Ag	115	1	0.00	0.00	ppb	389.16	3600	
111	Cd	115	1	0.00	0.00	ppb	432.32	3600	
118	Sn	115	1	0.05	0.05	ppb	15.37	3600	
121	Sb	115	1	0.04	0.04	ppb	7.64	3600	
137	Ba	115	1	0.15	0.15	ppb	6.76	3600	
205	Tl	165	1	0.00	0.00	ppb	120.52	3600	
208	Pb	165	1	0.03	0.03	ppb	4.87	3600	
232	Th	165	1	0.00	0.00	ppb	33.78	1000	
238	U	165	1	0.00	0.00	ppb	167.74	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	452881	1.76	488646	92.7	30 - 120	
45	Sc	1	2451188	0.78	2529221	96.9	30 - 120	
72	Ge	1	1451505	0.36	1504199	96.5	30 - 120	
115	In	1	4236074	1.31	4300457	98.5	30 - 120	
165	Ho	1	7919153	0.95	8234026	96.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\128SMPL.D\128SMPL.D#
Date Acquired:	Nov 16 2011 05:24 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-10-d
Misc Info:	
Vial Number:	3301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	112.79	3600	
51	V	72	1	0.02	0.02	ppb	65.61	3600	
52	Cr	72	1	0.06	0.06	ppb	9.94	3600	
55	Mn	72	1	0.27	0.27	ppb	5.43	18000	
59	Co	72	1	0.00	0.00	ppb	284.15	3600	
60	Ni	72	1	0.05	0.05	ppb	25.04	3600	
63	Cu	72	1	0.29	0.29	ppb	8.92	3600	
66	Zn	72	1	1.44	1.44	ppb	0.97	3600	
75	As	72	1	0.01	0.01	ppb	99.91	3600	
78	Se	72	1	0.21	0.21	ppb	60.22	3600	
95	Mo	72	1	0.04	0.04	ppb	21.58	3600	
107	Ag	115	1	0.00	0.00	ppb	619.06	3600	
111	Cd	115	1	0.00	0.00	ppb	84.79	3600	
118	Sn	115	1	0.03	0.03	ppb	24.83	3600	
121	Sb	115	1	0.00	0.00	ppb	60.66	3600	
137	Ba	115	1	0.06	0.06	ppb	19.41	3600	
205	Tl	165	1	0.00	0.00	ppb	48.69	3600	
208	Pb	165	1	0.01	0.01	ppb	8.21	3600	
232	Th	165	1	0.00	0.00	ppb	178.48	1000	
238	U	165	1	0.00	0.00	ppb	20.15	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457478	0.86	488646	93.6	30 - 120	
45	Sc	1	2495400	2.05	2529221	98.7	30 - 120	
72	Ge	1	1461286	1.33	1504199	97.1	30 - 120	
115	In	1	4256130	1.51	4300457	99.0	30 - 120	
165	Ho	1	8035859	1.32	8234026	97.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\129_CCV.D\129_CCV.D#
Date Acquired: Nov 16 2011 05:27 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.44	ppb	1.46	50	98.9	90 - 110	
51	V	72	1	49.77	ppb	2.57	50	99.5	90 - 110	
52	Cr	72	1	50.34	ppb	2.48	50	100.7	90 - 110	
55	Mn	72	1	50.00	ppb	1.24	50	100.0	90 - 110	
59	Co	72	1	50.36	ppb	1.94	50	100.7	90 - 110	
60	Ni	72	1	49.20	ppb	1.07	50	98.4	90 - 110	
63	Cu	72	1	48.24	ppb	1.07	50	96.5	90 - 110	
66	Zn	72	1	49.09	ppb	1.32	50	98.2	90 - 110	
75	As	72	1	49.75	ppb	0.43	50	99.5	90 - 110	
78	Se	72	1	49.00	ppb	6.02	50	98.0	90 - 110	
95	Mo	72	1	49.11	ppb	0.97	50	98.2	90 - 110	
107	Ag	115	1	50.26	ppb	1.10	50	100.5	90 - 110	
111	Cd	115	1	49.13	ppb	0.96	50	98.3	90 - 110	
118	Sn	115	1	47.45	ppb	0.64	50	94.9	90 - 110	
121	Sb	115	1	47.67	ppb	0.66	50	95.3	90 - 110	
137	Ba	115	1	49.21	ppb	0.72	50	98.4	90 - 110	
205	Tl	165	1	50.35	ppb	0.99	50	100.7	90 - 110	
208	Pb	165	1	48.85	ppb	0.77	50	97.7	90 - 110	
232	Th	165	1	49.26	ppb	1.31	50	98.5	90 - 110	
238	U	165	1	48.84	ppb	0.85	50	97.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454152	0.56	488646	92.9	30 - 120	
45	Sc	1	2496341	0.39	2529221	98.7	30 - 120	
72	Ge	1	1457383	0.63	1504199	96.9	30 - 120	
115	In	1	4289435	0.94	4300457	99.7	30 - 120	
165	Ho	1	8102918	0.61	8234026	98.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\130_CCB.D\130_CCB.D#
Date Acquired:	Nov 16 2011 05:30 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.020	ppb	111.84	1.00	
51	V	72	1	0.003	ppb	25.20	1.00	
52	Cr	72	1	0.017	ppb	85.21	1.00	
55	Mn	72	1	0.040	ppb	32.33	1.00	
59	Co	72	1	0.002	ppb	19.45	1.00	
60	Ni	72	1	0.009	ppb	85.21	1.00	
63	Cu	72	1	0.000	ppb	5406.40	1.00	
66	Zn	72	1	-0.001	ppb	348.63	1.00	
75	As	72	1	0.008	ppb	70.37	1.00	
78	Se	72	1	0.117	ppb	230.82	1.00	
95	Mo	72	1	0.007	ppb	59.83	1.00	
107	Ag	115	1	0.006	ppb	16.50	1.00	
111	Cd	115	1	-0.002	ppb	163.93	1.00	
118	Sn	115	1	0.026	ppb	24.32	1.00	
121	Sb	115	1	0.009	ppb	26.04	1.00	
137	Ba	115	1	0.022	ppb	21.71	1.00	
205	Tl	165	1	0.017	ppb	11.08	1.00	
208	Pb	165	1	0.006	ppb	18.43	1.00	
232	Th	165	1	0.034	ppb	3.40	1.00	
238	U	165	1	0.008	ppb	9.16	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	452197	1.05	488646	92.5	30 - 120	
45	Sc	1	2483957	0.63	2529221	98.2	30 - 120	
72	Ge	1	1462289	1.06	1504199	97.2	30 - 120	
115	In	1	4235985	0.17	4300457	98.5	30 - 120	
165	Ho	1	7914146	0.34	8234026	96.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\131WASH.D\131WASH.D#
Date Acquired: Nov 16 2011 05:33 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.030	ppb	11.66	1.30	
51	V	72	1	4.979	ppb	0.24	6.50	
52	Cr	72	1	2.102	ppb	0.50	2.60	
55	Mn	72	1	1.096	ppb	2.09	1.30	
59	Co	72	1	1.008	ppb	1.21	1.30	
60	Ni	72	1	1.998	ppb	2.62	2.60	
63	Cu	72	1	2.000	ppb	1.96	2.60	
66	Zn	72	1	10.140	ppb	0.74	13.00	
75	As	72	1	5.133	ppb	2.06	6.50	
78	Se	72	1	4.996	ppb	0.91	6.50	
95	Mo	72	1	2.070	ppb	2.93	2.60	
107	Ag	115	1	5.173	ppb	1.13	6.50	
111	Cd	115	1	1.079	ppb	3.58	1.30	
118	Sn	115	1	10.320	ppb	1.89	13.00	
121	Sb	115	1	2.005	ppb	1.19	2.60	
137	Ba	115	1	1.068	ppb	2.54	1.30	
205	Tl	165	1	1.035	ppb	1.03	1.30	
208	Pb	165	1	1.011	ppb	1.59	1.30	
232	Th	165	1	2.054	ppb	2.81	2.60	
238	U	165	1	0.998	ppb	1.53	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	455024	1.03	488646	93.1	30 - 120	
45	Sc	1	2478044	0.36	2529221	98.0	30 - 120	
72	Ge	1	1457986	0.46	1504199	96.9	30 - 120	
115	In	1	4222687	0.30	4300457	98.2	30 - 120	
165	Ho	1	8003906	0.97	8234026	97.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\132_BLK.D\132_BLK.D#
Date Acquired:	Nov 16 2011 05:36 pm
Operator:	TEL
Sample Name:	mb 280-96283/1-a
Misc Info:	BLANK 96283 6020A
Vial Number:	3302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	2455.90	2.00	
51	V	72	1	0.012	ppb	85.94	2.00	
52	Cr	72	1	0.014	ppb	67.25	2.00	
55	Mn	72	1	0.051	ppb	7.52	2.00	
59	Co	72	1	-0.001	ppb	85.81	2.00	
60	Ni	72	1	0.011	ppb	57.29	2.00	
63	Cu	72	1	0.069	ppb	5.17	2.00	
66	Zn	72	1	1.132	ppb	2.23	2.00	
75	As	72	1	0.003	ppb	116.16	2.00	
78	Se	72	1	0.001	ppb	7958.10	2.00	
95	Mo	72	1	-0.007	ppb	48.55	2.00	
107	Ag	115	1	0.001	ppb	66.28	2.00	
111	Cd	115	1	-0.002	ppb	244.85	2.00	
118	Sn	115	1	0.166	ppb	12.26	2.00	
121	Sb	115	1	0.001	ppb	148.17	2.00	
137	Ba	115	1	0.104	ppb	9.87	2.00	
205	Tl	165	1	0.003	ppb	40.82	2.00	
208	Pb	165	1	0.014	ppb	6.24	2.00	
232	Th	165	1	0.007	ppb	35.93	2.00	
238	U	165	1	-0.001	ppb	40.98	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	456714	0.14	488646	93.5	30 - 120	
45	Sc	1	2484116	1.39	2529221	98.2	30 - 120	
72	Ge	1	1460608	1.02	1504199	97.1	30 - 120	
115	In	1	4238649	0.60	4300457	98.6	30 - 120	
165	Ho	1	7951271	0.81	8234026	96.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\133_LCS.D\133_LCS.D#
Date Acquired:	Nov 16 2011 05:38 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-96283/2-a
Misc Info:	LCS
Vial Number:	3303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	43.30	0.11	40	108.3	80 - 120	
51	V	72	1	40.65	2.37	40	101.6	80 - 120	
52	Cr	72	1	41.47	1.86	40	103.7	80 - 120	
55	Mn	72	1	40.59	0.87	40	101.5	80 - 120	
59	Co	72	1	41.82	0.55	40	104.6	80 - 120	
60	Ni	72	1	40.94	0.29	40	102.4	80 - 120	
63	Cu	72	1	40.99	0.69	40	102.5	80 - 120	
66	Zn	72	1	42.76	0.27	40	106.9	80 - 120	
75	As	72	1	42.27	0.42	40	105.7	80 - 120	
78	Se	72	1	42.04	4.65	40	105.1	80 - 120	
95	Mo	72	1	41.11	0.92	40	102.8	80 - 120	
107	Ag	115	1	42.33	0.78	40	105.8	80 - 120	
111	Cd	115	1	41.99	0.77	40	105.0	80 - 120	
118	Sn	115	1	40.90	1.29	40	102.3	80 - 120	
121	Sb	115	1	40.56	1.46	40	101.4	80 - 120	
137	Ba	115	1	41.90	2.04	40	104.8	80 - 120	
205	Tl	165	1	42.84	0.59	40	107.1	80 - 120	
208	Pb	165	1	41.55	1.22	40	103.9	80 - 120	
232	Th	165	1	41.56	1.38	40	103.9	80 - 120	
238	U	165	1	41.27	1.20	40	103.2	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	452477	0.88	488646	92.6	30 - 120	
45	Sc	1	2439011	0.08	2529221	96.4	30 - 120	
72	Ge	1	1447296	0.10	1504199	96.2	30 - 120	
115	In	1	4214209	1.12	4300457	98.0	30 - 120	
165	Ho	1	8021551	0.70	8234026	97.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\134SMPL.D\134SMPL.D#
Date Acquired:	Nov 16 2011 05:41 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-1-c
Misc Info:	
Vial Number:	3304
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	0.00	3600	
51	V	72	1	0.20	0.20	ppb	12.30	3600	
52	Cr	72	1	0.07	0.07	ppb	15.38	3600	
55	Mn	72	1	1,640.00	1640.00	ppb	1.65	18000	
59	Co	72	1	3.90	3.90	ppb	1.23	3600	
60	Ni	72	1	9.54	9.54	ppb	2.39	3600	
63	Cu	72	1	1.17	1.17	ppb	2.19	3600	
66	Zn	72	1	4.06	4.06	ppb	1.64	3600	
75	As	72	1	10.69	10.69	ppb	2.02	3600	
78	Se	72	1	8.21	8.21	ppb	13.41	3600	
95	Mo	72	1	3.39	3.39	ppb	2.26	3600	
107	Ag	115	1	0.01	0.01	ppb	15.62	3600	
111	Cd	115	1	0.04	0.04	ppb	21.58	3600	
118	Sn	115	1	0.07	0.07	ppb	20.42	3600	
121	Sb	115	1	0.08	0.08	ppb	3.06	3600	
137	Ba	115	1	94.22	94.22	ppb	0.48	3600	
205	Tl	165	1	0.04	0.04	ppb	25.33	3600	
208	Pb	165	1	0.12	0.12	ppb	1.06	3600	
232	Th	165	1	0.04	0.04	ppb	14.20	1000	
238	U	165	1	14.18	14.18	ppb	1.38	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	421985	0.88	488646	86.4	30 - 120	
45	Sc	1	2235818	1.21	2529221	88.4	30 - 120	
72	Ge	1	1253406	1.02	1504199	83.3	30 - 120	
115	In	1	3684348	0.47	4300457	85.7	30 - 120	
165	Ho	1	7242760	0.43	8234026	88.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\135SMPL.D\135SMPL.D#
Date Acquired:	Nov 16 2011 05:44 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-2-c
Misc Info:	
Vial Number:	3305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	75.17	3600	
51	V	72	1	1.08	1.08	ppb	11.48	3600	
52	Cr	72	1	1.36	1.36	ppb	3.98	3600	
55	Mn	72	1	3,307.00	3307.00	ppb	1.27	18000	
59	Co	72	1	0.52	0.52	ppb	1.84	3600	
60	Ni	72	1	8.80	8.80	ppb	1.49	3600	
63	Cu	72	1	6.64	6.64	ppb	1.29	3600	
66	Zn	72	1	5.19	5.19	ppb	1.63	3600	
75	As	72	1	21.18	21.18	ppb	1.29	3600	
78	Se	72	1	0.12	0.12	ppb	76.65	3600	
95	Mo	72	1	7.32	7.32	ppb	1.97	3600	
107	Ag	115	1	0.00	0.00	ppb	26.58	3600	
111	Cd	115	1	0.01	0.01	ppb	58.54	3600	
118	Sn	115	1	0.10	0.10	ppb	17.38	3600	
121	Sb	115	1	0.05	0.05	ppb	17.34	3600	
137	Ba	115	1	167.20	167.20	ppb	1.05	3600	
205	Tl	165	1	0.01	0.01	ppb	9.95	3600	
208	Pb	165	1	0.42	0.42	ppb	1.95	3600	
232	Th	165	1	0.04	0.04	ppb	0.98	1000	
238	U	165	1	0.28	0.28	ppb	1.48	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	417785	0.64	488646	85.5	30 - 120	
45	Sc	1	2222319	1.61	2529221	87.9	30 - 120	
72	Ge	1	1248521	1.20	1504199	83.0	30 - 120	
115	In	1	3689902	0.94	4300457	85.8	30 - 120	
165	Ho	1	7164323	1.10	8234026	87.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\136SMPL.D\136SMPL.D#	
Date Acquired:	Nov 16 2011 05:47 pm	
Acq. Method:	NormISIS.M	**QC Summary:**
Operator:	TEL	**Analytes: Pass**
Sample Name:	280-22754-e-3-c	**ISTD: Pass**
Misc Info:		
Vial Number:	3306	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 16 2011 04:23 pm	
Sample Type:	SA	
Dilution Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1426.40	3600	
51	V	72	1	0.32	0.32	ppb	6.15	3600	
52	Cr	72	1	0.07	0.07	ppb	12.18	3600	
55	Mn	72	1	965.60	965.60	ppb	0.93	18000	
59	Co	72	1	3.35	3.35	ppb	2.59	3600	
60	Ni	72	1	16.04	16.04	ppb	0.69	3600	
63	Cu	72	1	0.39	0.39	ppb	5.43	3600	
66	Zn	72	1	6.63	6.63	ppb	2.61	3600	
75	As	72	1	4.53	4.53	ppb	1.65	3600	
78	Se	72	1	0.35	0.35	ppb	80.72	3600	
95	Mo	72	1	1.02	1.02	ppb	4.25	3600	
107	Ag	115	1	0.00	0.00	ppb	43.43	3600	
111	Cd	115	1	0.06	0.06	ppb	11.07	3600	
118	Sn	115	1	0.02	0.02	ppb	40.34	3600	
121	Sb	115	1	0.10	0.10	ppb	7.77	3600	
137	Ba	115	1	252.70	252.70	ppb	1.69	3600	
205	Tl	165	1	0.05	0.05	ppb	5.71	3600	
208	Pb	165	1	0.13	0.13	ppb	1.18	3600	
232	Th	165	1	0.01	0.01	ppb	24.21	1000	
238	U	165	1	17.33	17.33	ppb	1.27	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	426786	1.29	488646	87.3	30 - 120	
45	Sc	1	2239176	0.91	2529221	88.5	30 - 120	
72	Ge	1	1255345	1.04	1504199	83.5	30 - 120	
115	In	1	3733152	0.42	4300457	86.8	30 - 120	
165	Ho	1	7307999	1.06	8234026	88.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\137AREF.D\137AREF.D#
Date Acquired: Nov 16 2011 05:50 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-4-h
Misc Info:
Vial Number: 3307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	100.90	3600	
51	V	72	1	2.00	2.00	ppb	1.09	3600	
52	Cr	72	1	0.80	0.80	ppb	1.94	3600	
55	Mn	72	1	1,838.00	1838.00	ppb	0.46	18000	
59	Co	72	1	0.41	0.41	ppb	1.40	3600	
60	Ni	72	1	2.08	2.08	ppb	2.77	3600	
63	Cu	72	1	1.16	1.16	ppb	2.94	3600	
66	Zn	72	1	12.41	12.41	ppb	1.18	3600	
75	As	72	1	23.97	23.97	ppb	0.09	3600	
78	Se	72	1	0.35	0.35	ppb	29.89	3600	
95	Mo	72	1	0.42	0.42	ppb	2.43	3600	
107	Ag	115	1	0.01	0.01	ppb	3.79	3600	
111	Cd	115	1	0.18	0.18	ppb	8.84	3600	
118	Sn	115	1	0.07	0.07	ppb	2.26	3600	
121	Sb	115	1	0.07	0.07	ppb	4.20	3600	
137	Ba	115	1	670.00	670.00	ppb	1.67	3600	
205	Tl	165	1	0.01	0.01	ppb	11.76	3600	
208	Pb	165	1	1.08	1.08	ppb	1.16	3600	
232	Th	165	1	0.28	0.28	ppb	3.43	1000	
238	U	165	1	0.11	0.11	ppb	4.87	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	409064	0.67	488646	83.7	30 - 120	
45	Sc	1	2217396	0.70	2529221	87.7	30 - 120	
72	Ge	1	1289087	0.69	1504199	85.7	30 - 120	
115	In	1	3742864	1.07	4300457	87.0	30 - 120	
165	Ho	1	7173199	0.24	8234026	87.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\138SDIL.D\138SDIL.D#
Date Acquired: Nov 16 2011 05:53 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-4-h SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3308
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\137AREF.D\137AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.01	ppb	2.51	0.01	196.3	90 - 110	
51	V	72	1	0.38	ppb	5.03	0.40	94.5	90 - 110	
52	Cr	72	1	0.15	ppb	11.39	0.16	95.5	90 - 110	
55	Mn	72	1	378.50	ppb	0.96	367.60	103.0	90 - 110	
59	Co	72	1	0.08	ppb	10.42	0.08	104.5	90 - 110	
60	Ni	72	1	0.44	ppb	5.73	0.42	106.8	90 - 110	
63	Cu	72	1	0.31	ppb	3.08	0.23	132.4	90 - 110	
66	Zn	72	1	2.74	ppb	1.24	2.48	110.3	90 - 110	
75	As	72	1	4.89	ppb	1.09	4.79	102.0	90 - 110	
78	Se	72	1	0.36	ppb	62.65	0.07	509.7	90 - 110	
95	Mo	72	1	0.09	ppb	11.04	0.08	103.3	90 - 110	
107	Ag	115	1	0.00	ppb	61.76	0.00	90.5	90 - 110	
111	Cd	115	1	0.03	ppb	48.01	0.04	93.9	90 - 110	
118	Sn	115	1	0.07	ppb	13.33	0.01	540.1	90 - 110	
121	Sb	115	1	0.01	ppb	24.06	0.01	98.0	90 - 110	
137	Ba	115	1	131.70	ppb	0.25	134.00	98.3	90 - 110	
205	Tl	165	1	0.00	ppb	10.35	0.00	149.1	90 - 110	
208	Pb	165	1	0.23	ppb	1.07	0.22	105.5	90 - 110	
232	Th	165	1	0.06	ppb	10.00	0.06	104.2	90 - 110	
238	U	165	1	0.02	ppb	8.62	0.02	101.2	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	428459	1.80	488646	87.7	30 - 120	
45	Sc	1	2365904	1.79	2529221	93.5	30 - 120	
72	Ge	1	1393019	0.82	1504199	92.6	30 - 120	
115	In	1	4077279	0.53	4300457	94.8	30 - 120	
165	Ho	1	7611148	0.25	8234026	92.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\139PDS.D\139PDS.D#
Date Acquired:	Nov 16 2011 05:56 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-4-h PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3309
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	203.00	0.03	ppb	2.34	200	101.5	75 - 125	
51 V	72	1	197.40	2.00	ppb	1.78	200	97.7	75 - 125	
52 Cr	72	1	191.60	0.80	ppb	1.37	200	95.4	75 - 125	
55 Mn	72	1	1992.00	1838.00	ppb	2.61	200	97.7	75 - 125	
59 Co	72	1	186.80	0.41	ppb	1.64	200	93.2	75 - 125	
60 Ni	72	1	190.40	2.08	ppb	1.09	200	94.2	75 - 125	
63 Cu	72	1	177.00	1.16	ppb	1.30	200	88.0	75 - 125	
66 Zn	72	1	192.70	12.41	ppb	1.25	200	90.7	75 - 125	
75 As	72	1	228.50	23.97	ppb	1.84	200	102.0	75 - 125	
78 Se	72	1	197.50	0.35	ppb	1.53	200	98.6	75 - 125	
95 Mo	72	1	211.70	0.42	ppb	1.42	200	105.6	75 - 125	
107 Ag	115	1	45.94	0.01	ppb	0.27	50	91.9	75 - 125	
111 Cd	115	1	194.30	0.18	ppb	0.67	200	97.1	75 - 125	
118 Sn	115	1	196.40	0.07	ppb	0.79	200	98.2	75 - 125	
121 Sb	115	1	198.50	0.07	ppb	1.08	200	99.2	75 - 125	
137 Ba	115	1	848.90	670.00	ppb	0.72	200	97.6	75 - 125	
205 Tl	165	1	185.40	0.01	ppb	0.51	200	92.7	75 - 125	
208 Pb	165	1	180.30	1.08	ppb	0.40	200	89.7	75 - 125	
232 Th	165	1	0.32	0.28	ppb	2.13	200	0.2	75 - 125	
238 U	165	1	185.80	0.11	ppb	0.19	200	92.8	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	403238	1.93	488646	82.5	30 - 120	
45 Sc	1	2205861	0.60	2529221	87.2	30 - 120	
72 Ge	1	1269042	1.06	1504199	84.4	30 - 120	
115 In	1	3737433	0.87	4300457	86.9	30 - 120	
165 Ho	1	7152145	0.33	8234026	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\140_CCV.D\140_CCV.D#
Date Acquired:	Nov 16 2011 05:59 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.48	ppb	1.44	50	101.0	90 - 110	
51	V	72	1	50.29	ppb	1.37	50	100.6	90 - 110	
52	Cr	72	1	49.47	ppb	1.59	50	98.9	90 - 110	
55	Mn	72	1	49.75	ppb	1.46	50	99.5	90 - 110	
59	Co	72	1	50.17	ppb	1.90	50	100.3	90 - 110	
60	Ni	72	1	48.88	ppb	1.41	50	97.8	90 - 110	
63	Cu	72	1	47.58	ppb	1.54	50	95.2	90 - 110	
66	Zn	72	1	48.83	ppb	1.48	50	97.7	90 - 110	
75	As	72	1	49.58	ppb	1.29	50	99.2	90 - 110	
78	Se	72	1	48.31	ppb	3.48	50	96.6	90 - 110	
95	Mo	72	1	49.14	ppb	1.50	50	98.3	90 - 110	
107	Ag	115	1	49.78	ppb	2.04	50	99.6	90 - 110	
111	Cd	115	1	49.19	ppb	1.33	50	98.4	90 - 110	
118	Sn	115	1	47.88	ppb	0.32	50	95.8	90 - 110	
121	Sb	115	1	47.93	ppb	0.75	50	95.9	90 - 110	
137	Ba	115	1	49.84	ppb	0.72	50	99.7	90 - 110	
205	Tl	165	1	50.10	ppb	0.55	50	100.2	90 - 110	
208	Pb	165	1	48.89	ppb	0.14	50	97.8	90 - 110	
232	Th	165	1	49.47	ppb	1.12	50	98.9	90 - 110	
238	U	165	1	48.71	ppb	0.53	50	97.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	424244	1.00	488646	86.8	30 - 120	
45	Sc	1	2388687	0.90	2529221	94.4	30 - 120	
72	Ge	1	1410389	1.67	1504199	93.8	30 - 120	
115	In	1	4143869	0.66	4300457	96.4	30 - 120	
165	Ho	1	7834791	0.57	8234026	95.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\141_CCB.D\141_CCB.D#
Date Acquired: Nov 16 2011 06:02 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.011	ppb	142.58	1.00	
51	V	72	1	0.002	ppb	562.90	1.00	
52	Cr	72	1	0.012	ppb	29.94	1.00	
55	Mn	72	1	0.078	ppb	13.33	1.00	
59	Co	72	1	0.007	ppb	29.78	1.00	
60	Ni	72	1	0.008	ppb	33.56	1.00	
63	Cu	72	1	0.006	ppb	92.48	1.00	
66	Zn	72	1	0.006	ppb	96.20	1.00	
75	As	72	1	0.008	ppb	81.08	1.00	
78	Se	72	1	0.170	ppb	119.99	1.00	
95	Mo	72	1	0.010	ppb	16.18	1.00	
107	Ag	115	1	0.007	ppb	19.20	1.00	
111	Cd	115	1	0.007	ppb	23.66	1.00	
118	Sn	115	1	0.049	ppb	22.20	1.00	
121	Sb	115	1	0.019	ppb	28.78	1.00	
137	Ba	115	1	0.024	ppb	15.07	1.00	
205	Tl	165	1	0.015	ppb	9.42	1.00	
208	Pb	165	1	0.007	ppb	19.67	1.00	
232	Th	165	1	0.024	ppb	15.80	1.00	
238	U	165	1	0.016	ppb	7.13	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	433374	1.31	488646	88.7	30 - 120	
45	Sc	1	2397143	0.22	2529221	94.8	30 - 120	
72	Ge	1	1432283	0.45	1504199	95.2	30 - 120	
115	In	1	4200442	0.76	4300457	97.7	30 - 120	
165	Ho	1	7824410	0.19	8234026	95.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\142WASH.D\142WASH.D#
Date Acquired: Nov 16 2011 06:04 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.134 ppb	19.29	1.30	
51	V	72	1	4.908 ppb	2.58	6.50	
52	Cr	72	1	2.071 ppb	1.27	2.60	
55	Mn	72	1	1.105 ppb	1.63	1.30	
59	Co	72	1	1.010 ppb	1.50	1.30	
60	Ni	72	1	2.082 ppb	3.31	2.60	
63	Cu	72	1	2.010 ppb	1.54	2.60	
66	Zn	72	1	10.180 ppb	1.27	13.00	
75	As	72	1	5.253 ppb	1.88	6.50	
78	Se	72	1	5.473 ppb	5.51	6.50	
95	Mo	72	1	2.084 ppb	1.59	2.60	
107	Ag	115	1	5.066 ppb	1.32	6.50	
111	Cd	115	1	1.034 ppb	5.31	1.30	
118	Sn	115	1	10.250 ppb	1.20	13.00	
121	Sb	115	1	1.995 ppb	2.45	2.60	
137	Ba	115	1	1.083 ppb	0.96	1.30	
205	Tl	165	1	1.044 ppb	0.91	1.30	
208	Pb	165	1	1.017 ppb	0.88	1.30	
232	Th	165	1	2.036 ppb	1.68	2.60	
238	U	165	1	0.997 ppb	0.55	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	435848	1.18	488646	89.2	30 - 120	
45	Sc	1	2436796	2.02	2529221	96.3	30 - 120	
72	Ge	1	1437237	1.53	1504199	95.5	30 - 120	
115	In	1	4211340	0.45	4300457	97.9	30 - 120	
165	Ho	1	7884191	0.22	8234026	95.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\143_MS.D\143_MS.D#
Date Acquired:	Nov 16 2011 06:07 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-4-i ms
Misc Info:	MATRIX SPIKE
Vial Number:	3310
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	44.34	0.03	ppb	3.00	40	110.8	50 - 150	
51 V	72	1	44.16	2.00	ppb	2.22	40	105.2	50 - 150	
52 Cr	72	1	41.81	0.80	ppb	2.01	40	102.5	50 - 150	
55 Mn	72	1	1896.00	1838.00	ppb	2.07	40	101.0	50 - 150	
59 Co	72	1	41.93	0.41	ppb	2.59	40	103.8	50 - 150	
60 Ni	72	1	41.04	2.08	ppb	1.63	40	97.5	50 - 150	
63 Cu	72	1	38.14	1.16	ppb	1.97	40	92.7	50 - 150	
66 Zn	72	1	51.88	12.41	ppb	1.74	40	99.0	50 - 150	
75 As	72	1	68.10	23.97	ppb	1.40	40	106.5	50 - 150	
78 Se	72	1	40.00	0.35	ppb	2.54	40	99.1	50 - 150	
95 Mo	72	1	44.29	0.42	ppb	2.30	40	109.6	50 - 150	
107 Ag	115	1	38.10	0.01	ppb	0.53	40	95.2	50 - 150	
111 Cd	115	1	41.18	0.18	ppb	0.19	40	102.5	50 - 150	
118 Sn	115	1	34.43	0.07	ppb	1.48	40	85.9	50 - 150	
121 Sb	115	1	40.19	0.07	ppb	0.63	40	100.3	50 - 150	
137 Ba	115	1	717.30	670.00	ppb	1.08	40	101.0	50 - 150	
205 Tl	165	1	41.29	0.01	ppb	0.59	40	103.2	50 - 150	
208 Pb	165	1	39.95	1.08	ppb	0.32	40	97.3	50 - 150	
232 Th	165	1	42.15	0.28	ppb	0.32	40	104.6	50 - 150	
238 U	165	1	41.62	0.11	ppb	1.35	40	103.8	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	396870	0.89	488646	81.2	30 - 120	
45 Sc	1	2224637	1.21	2529221	88.0	30 - 120	
72 Ge	1	1267342	1.33	1504199	84.3	30 - 120	
115 In	1	3719004	0.14	4300457	86.5	30 - 120	
165 Ho	1	7113610	0.29	8234026	86.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\144_MSD.D\144_MSD.D#
Date Acquired:	Nov 16 2011 06:10 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-4-j msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	3311
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\143_MS.D\143_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	45.11	ppb	2.81	44.34	1.72	20	
51	V	72	1	44.07	ppb	0.91	44.16	0.20	20	
52	Cr	72	1	41.86	ppb	1.04	41.81	0.12	20	
55	Mn	72	1	1888.00	ppb	0.54	1896.00	0.42	20	
59	Co	72	1	41.66	ppb	0.88	41.93	0.65	20	
60	Ni	72	1	40.43	ppb	0.99	41.04	1.50	20	
63	Cu	72	1	38.03	ppb	0.75	38.14	0.29	20	
66	Zn	72	1	51.40	ppb	0.33	51.88	0.93	20	
75	As	72	1	67.78	ppb	1.19	68.10	0.47	20	
78	Se	72	1	39.34	ppb	3.75	40.00	1.66	20	
95	Mo	72	1	44.55	ppb	0.88	44.29	0.59	20	
107	Ag	115	1	38.22	ppb	0.92	38.10	0.31	20	
111	Cd	115	1	41.43	ppb	0.48	41.18	0.61	20	
118	Sn	115	1	33.96	ppb	0.40	34.43	1.37	20	
121	Sb	115	1	40.15	ppb	0.48	40.19	0.10	20	
137	Ba	115	1	713.50	ppb	0.59	717.30	0.53	20	
205	Tl	165	1	41.06	ppb	0.61	41.29	0.56	20	
208	Pb	165	1	39.77	ppb	0.94	39.95	0.45	20	
232	Th	165	1	42.08	ppb	1.77	42.15	0.17	20	
238	U	165	1	41.73	ppb	0.43	41.62	0.26	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	390977	1.44	488646	80.0	30 - 120	
45	Sc	1	2177447	1.82	2529221	86.1	30 - 120	
72	Ge	1	1255457	0.17	1504199	83.5	30 - 120	
115	In	1	3662689	0.75	4300457	85.2	30 - 120	
165	Ho	1	7083118	0.74	8234026	86.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\145SMPL.D\145SMPL.D#
Date Acquired: Nov 16 2011 06:13 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-5-c
Misc Info:
Vial Number: 3312
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	104.36	3600	
51	V	72	1	1.83	1.83	ppb	1.95	3600	
52	Cr	72	1	0.68	0.68	ppb	3.59	3600	
55	Mn	72	1	1,710.00	1710.00	ppb	0.89	18000	
59	Co	72	1	0.32	0.32	ppb	3.04	3600	
60	Ni	72	1	1.54	1.54	ppb	1.43	3600	
63	Cu	72	1	2.33	2.33	ppb	1.72	3600	
66	Zn	72	1	5.14	5.14	ppb	1.44	3600	
75	As	72	1	15.62	15.62	ppb	0.61	3600	
78	Se	72	1	0.60	0.60	ppb	18.40	3600	
95	Mo	72	1	0.16	0.16	ppb	11.70	3600	
107	Ag	115	1	0.01	0.01	ppb	16.72	3600	
111	Cd	115	1	0.04	0.04	ppb	15.53	3600	
118	Sn	115	1	0.12	0.12	ppb	12.72	3600	
121	Sb	115	1	0.06	0.06	ppb	7.42	3600	
137	Ba	115	1	585.10	585.10	ppb	0.62	3600	
205	Tl	165	1	0.02	0.02	ppb	12.66	3600	
208	Pb	165	1	0.55	0.55	ppb	0.74	3600	
232	Th	165	1	0.23	0.23	ppb	3.42	1000	
238	U	165	1	0.39	0.39	ppb	0.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	392977	1.42	488646	80.4	30 - 120	
45	Sc	1	2184862	0.68	2529221	86.4	30 - 120	
72	Ge	1	1254561	1.02	1504199	83.4	30 - 120	
115	In	1	3720309	0.79	4300457	86.5	30 - 120	
165	Ho	1	7060930	0.48	8234026	85.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\146SMPL.D\146SMPL.D#
Date Acquired: Nov 16 2011 06:16 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-6-c
Misc Info:
Vial Number: 3401
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	141.94	3600	
51	V	72	1	0.37	0.37	ppb	5.96	3600	
52	Cr	72	1	0.20	0.20	ppb	3.25	3600	
55	Mn	72	1	217.30	217.30	ppb	1.50	18000	
59	Co	72	1	0.11	0.11	ppb	7.78	3600	
60	Ni	72	1	1.58	1.58	ppb	5.46	3600	
63	Cu	72	1	0.20	0.20	ppb	5.39	3600	
66	Zn	72	1	7.46	7.46	ppb	0.91	3600	
75	As	72	1	1.09	1.09	ppb	2.00	3600	
78	Se	72	1	0.61	0.61	ppb	18.80	3600	
95	Mo	72	1	1.93	1.93	ppb	1.35	3600	
107	Ag	115	1	0.01	0.01	ppb	34.33	3600	
111	Cd	115	1	0.01	0.01	ppb	56.73	3600	
118	Sn	115	1	0.13	0.13	ppb	14.16	3600	
121	Sb	115	1	0.03	0.03	ppb	13.45	3600	
137	Ba	115	1	2,431.00	2431.00	ppb	0.31	3600	
205	Tl	165	1	0.02	0.02	ppb	8.65	3600	
208	Pb	165	1	0.14	0.14	ppb	5.92	3600	
232	Th	165	1	0.08	0.08	ppb	3.58	1000	
238	U	165	1	0.09	0.09	ppb	1.44	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	377380	0.27	488646	77.2	30 - 120	
45	Sc	1	2121625	0.81	2529221	83.9	30 - 120	
72	Ge	1	1178360	0.61	1504199	78.3	30 - 120	
115	In	1	3466622	0.28	4300457	80.6	30 - 120	
165	Ho	1	6747984	0.38	8234026	82.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\147SMPL.D\147SMPL.D#
Date Acquired: Nov 16 2011 06:19 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-7-c
Misc Info:
Vial Number: 3402
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.08	0.08	ppb	57.22	3600	
51	V	72	1	1.90	1.90	ppb	4.14	3600	
52	Cr	72	1	0.79	0.79	ppb	2.85	3600	
55	Mn	72	1	1,820.00	1820.00	ppb	1.66	18000	
59	Co	72	1	0.40	0.40	ppb	2.26	3600	
60	Ni	72	1	1.97	1.97	ppb	5.24	3600	
63	Cu	72	1	1.14	1.14	ppb	2.57	3600	
66	Zn	72	1	11.86	11.86	ppb	1.61	3600	
75	As	72	1	25.03	25.03	ppb	0.94	3600	
78	Se	72	1	0.40	0.40	ppb	18.06	3600	
95	Mo	72	1	0.44	0.44	ppb	3.21	3600	
107	Ag	115	1	0.00	0.00	ppb	65.79	3600	
111	Cd	115	1	0.12	0.12	ppb	16.13	3600	
118	Sn	115	1	0.08	0.08	ppb	6.90	3600	
121	Sb	115	1	0.08	0.08	ppb	3.72	3600	
137	Ba	115	1	661.10	661.10	ppb	1.63	3600	
205	Tl	165	1	0.01	0.01	ppb	8.59	3600	
208	Pb	165	1	1.02	1.02	ppb	0.59	3600	
232	Th	165	1	0.25	0.25	ppb	2.24	1000	
238	U	165	1	0.11	0.11	ppb	3.50	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	383781	1.61	488646	78.5	30 - 120	
45	Sc	1	2123648	0.52	2529221	84.0	30 - 120	
72	Ge	1	1237030	0.37	1504199	82.2	30 - 120	
115	In	1	3635623	0.71	4300457	84.5	30 - 120	
165	Ho	1	6904790	0.19	8234026	83.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\148SMPL.D\148SMPL.D#
Date Acquired:	Nov 16 2011 06:22 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-1-g
Misc Info:	
Vial Number:	3403
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	51.35	3600	
51	V	72	1	0.85	0.85	ppb	3.87	3600	
52	Cr	72	1	0.20	0.20	ppb	5.72	3600	
55	Mn	72	1	2,786.00	2786.00	ppb	1.85	18000	
59	Co	72	1	4.24	4.24	ppb	1.49	3600	
60	Ni	72	1	15.45	15.45	ppb	2.44	3600	
63	Cu	72	1	0.75	0.75	ppb	4.77	3600	
66	Zn	72	1	3.74	3.74	ppb	1.08	3600	
75	As	72	1	6.86	6.86	ppb	2.44	3600	
78	Se	72	1	0.32	0.32	ppb	70.55	3600	
95	Mo	72	1	4.13	4.13	ppb	3.24	3600	
107	Ag	115	1	0.01	0.01	ppb	9.38	3600	
111	Cd	115	1	0.05	0.05	ppb	11.11	3600	
118	Sn	115	1	0.10	0.10	ppb	9.46	3600	
121	Sb	115	1	0.31	0.31	ppb	3.41	3600	
137	Ba	115	1	250.70	250.70	ppb	0.56	3600	
205	Tl	165	1	0.00	0.00	ppb	14.31	3600	
208	Pb	165	1	0.47	0.47	ppb	1.98	3600	
232	Th	165	1	0.03	0.03	ppb	2.03	1000	
238	U	165	1	3.35	3.35	ppb	1.45	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	390625	2.01	488646	79.9	30 - 120	
45	Sc	1	2143192	1.29	2529221	84.7	30 - 120	
72	Ge	1	1219868	1.26	1504199	81.1	30 - 120	
115	In	1	3614764	0.71	4300457	84.1	30 - 120	
165	Ho	1	7015565	0.90	8234026	85.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\149SMPL.D\149SMPL.D#
Date Acquired:	Nov 16 2011 06:25 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-2-c
Misc Info:	
Vial Number:	3404
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.07	0.07	ppb	29.19	3600	
51	V	72	1	3.48	3.48	ppb	2.81	3600	
52	Cr	72	1	1.19	1.19	ppb	2.86	3600	
55	Mn	72	1	254.60	254.60	ppb	2.18	18000	
59	Co	72	1	0.72	0.72	ppb	3.71	3600	
60	Ni	72	1	2.63	2.63	ppb	1.90	3600	
63	Cu	72	1	1.28	1.28	ppb	1.99	3600	
66	Zn	72	1	7.25	7.25	ppb	2.17	3600	
75	As	72	1	3.46	3.46	ppb	2.22	3600	
78	Se	72	1	0.37	0.37	ppb	56.27	3600	
95	Mo	72	1	0.51	0.51	ppb	4.06	3600	
107	Ag	115	1	0.01	0.01	ppb	4.04	3600	
111	Cd	115	1	0.04	0.04	ppb	19.65	3600	
118	Sn	115	1	0.08	0.08	ppb	4.20	3600	
121	Sb	115	1	0.14	0.14	ppb	3.94	3600	
137	Ba	115	1	676.50	676.50	ppb	2.01	3600	
205	Tl	165	1	0.02	0.02	ppb	6.66	3600	
208	Pb	165	1	0.80	0.80	ppb	1.85	3600	
232	Th	165	1	0.24	0.24	ppb	2.64	1000	
238	U	165	1	0.44	0.44	ppb	2.20	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	389654	1.39	488646	79.7	30 - 120	
45	Sc	1	2185769	0.71	2529221	86.4	30 - 120	
72	Ge	1	1264017	0.99	1504199	84.0	30 - 120	
115	In	1	3648987	0.93	4300457	84.9	30 - 120	
165	Ho	1	7001748	0.77	8234026	85.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\150SMPL.D\150SMPL.D#
Date Acquired: Nov 16 2011 06:28 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-3-c
Misc Info:
Vial Number: 3405
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	23.77	3600	
51	V	72	1	3.19	3.19	ppb	2.25	3600	
52	Cr	72	1	0.94	0.94	ppb	2.06	3600	
55	Mn	72	1	560.50	560.50	ppb	0.42	18000	
59	Co	72	1	0.60	0.60	ppb	2.75	3600	
60	Ni	72	1	3.16	3.16	ppb	3.59	3600	
63	Cu	72	1	2.20	2.20	ppb	1.91	3600	
66	Zn	72	1	23.07	23.07	ppb	1.09	3600	
75	As	72	1	9.74	9.74	ppb	1.06	3600	
78	Se	72	1	0.76	0.76	ppb	19.65	3600	
95	Mo	72	1	2.38	2.38	ppb	0.99	3600	
107	Ag	115	1	0.01	0.01	ppb	31.21	3600	
111	Cd	115	1	0.09	0.09	ppb	11.43	3600	
118	Sn	115	1	0.09	0.09	ppb	3.69	3600	
121	Sb	115	1	0.36	0.36	ppb	3.33	3600	
137	Ba	115	1	364.00	364.00	ppb	1.59	3600	
205	Tl	165	1	0.01	0.01	ppb	4.34	3600	
208	Pb	165	1	0.87	0.87	ppb	0.61	3600	
232	Th	165	1	0.14	0.14	ppb	3.88	1000	
238	U	165	1	1.57	1.57	ppb	0.45	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	389369	1.39	488646	79.7	30 - 120	
45	Sc	1	2181340	0.61	2529221	86.2	30 - 120	
72	Ge	1	1248585	0.55	1504199	83.0	30 - 120	
115	In	1	3635328	0.52	4300457	84.5	30 - 120	
165	Ho	1	7100405	0.74	8234026	86.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\151_CCV.D\151_CCV.D#
Date Acquired:	Nov 16 2011 06:31 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.79	ppb	3.74	50	99.6	90 - 110	
51	V	72	1	48.97	ppb	2.88	50	97.9	90 - 110	
52	Cr	72	1	49.05	ppb	1.30	50	98.1	90 - 110	
55	Mn	72	1	50.36	ppb	1.93	50	100.7	90 - 110	
59	Co	72	1	50.57	ppb	0.81	50	101.1	90 - 110	
60	Ni	72	1	48.82	ppb	1.56	50	97.6	90 - 110	
63	Cu	72	1	47.74	ppb	1.47	50	95.5	90 - 110	
66	Zn	72	1	49.21	ppb	1.52	50	98.4	90 - 110	
75	As	72	1	50.14	ppb	1.28	50	100.3	90 - 110	
78	Se	72	1	49.98	ppb	3.36	50	100.0	90 - 110	
95	Mo	72	1	49.41	ppb	0.66	50	98.8	90 - 110	
107	Ag	115	1	49.92	ppb	1.39	50	99.8	90 - 110	
111	Cd	115	1	49.71	ppb	0.60	50	99.4	90 - 110	
118	Sn	115	1	48.41	ppb	0.29	50	96.8	90 - 110	
121	Sb	115	1	48.42	ppb	0.71	50	96.8	90 - 110	
137	Ba	115	1	50.11	ppb	0.31	50	100.2	90 - 110	
205	Tl	165	1	50.28	ppb	1.73	50	100.6	90 - 110	
208	Pb	165	1	49.01	ppb	1.78	50	98.0	90 - 110	
232	Th	165	1	49.79	ppb	1.00	50	99.6	90 - 110	
238	U	165	1	48.78	ppb	0.81	50	97.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	422915	0.46	488646	86.5	30 - 120	
45	Sc	1	2261098	1.08	2529221	89.4	30 - 120	
72	Ge	1	1343055	1.23	1504199	89.3	30 - 120	
115	In	1	3951256	0.03	4300457	91.9	30 - 120	
165	Ho	1	7509051	1.56	8234026	91.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\152_CCB.D\152_CCB.D#
Date Acquired:	Nov 16 2011 06:33 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.011	ppb	1.25	1.00	
51	V	72	1	0.011	ppb	42.33	1.00	
52	Cr	72	1	0.022	ppb	42.34	1.00	
55	Mn	72	1	0.062	ppb	20.36	1.00	
59	Co	72	1	0.005	ppb	2.43	1.00	
60	Ni	72	1	0.010	ppb	17.44	1.00	
63	Cu	72	1	-0.005	ppb	129.83	1.00	
66	Zn	72	1	0.020	ppb	32.13	1.00	
75	As	72	1	0.013	ppb	42.97	1.00	
78	Se	72	1	0.203	ppb	120.02	1.00	
95	Mo	72	1	-0.001	ppb	220.61	1.00	
107	Ag	115	1	0.009	ppb	19.52	1.00	
111	Cd	115	1	0.000	ppb	2174.70	1.00	
118	Sn	115	1	0.022	ppb	51.14	1.00	
121	Sb	115	1	0.011	ppb	12.69	1.00	
137	Ba	115	1	0.045	ppb	8.19	1.00	
205	Tl	165	1	0.010	ppb	14.93	1.00	
208	Pb	165	1	0.006	ppb	29.96	1.00	
232	Th	165	1	0.029	ppb	15.09	1.00	
238	U	165	1	0.011	ppb	7.44	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	426222	0.89	488646	87.2	30 - 120	
45	Sc	1	2283057	0.37	2529221	90.3	30 - 120	
72	Ge	1	1358640	1.20	1504199	90.3	30 - 120	
115	In	1	4036534	1.71	4300457	93.9	30 - 120	
165	Ho	1	7485606	0.58	8234026	90.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\153WASH.D\153WASH.D#
Date Acquired: Nov 16 2011 06:36 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.996	ppb	6.55	1.30	
51	V	72	1	5.042	ppb	0.70	6.50	
52	Cr	72	1	2.078	ppb	1.79	2.60	
55	Mn	72	1	1.095	ppb	2.70	1.30	
59	Co	72	1	1.018	ppb	0.74	1.30	
60	Ni	72	1	2.007	ppb	2.56	2.60	
63	Cu	72	1	1.978	ppb	1.15	2.60	
66	Zn	72	1	10.140	ppb	0.45	13.00	
75	As	72	1	5.245	ppb	0.84	6.50	
78	Se	72	1	4.945	ppb	2.29	6.50	
95	Mo	72	1	2.072	ppb	3.69	2.60	
107	Ag	115	1	5.120	ppb	2.47	6.50	
111	Cd	115	1	1.058	ppb	3.13	1.30	
118	Sn	115	1	10.260	ppb	3.47	13.00	
121	Sb	115	1	2.013	ppb	1.01	2.60	
137	Ba	115	1	1.047	ppb	2.44	1.30	
205	Tl	165	1	1.027	ppb	0.15	1.30	
208	Pb	165	1	1.001	ppb	1.62	1.30	
232	Th	165	1	2.009	ppb	1.46	2.60	
238	U	165	1	0.988	ppb	1.48	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	422052	0.82	488646	86.4	30 - 120	
45	Sc	1	2289636	0.70	2529221	90.5	30 - 120	
72	Ge	1	1353084	0.36	1504199	90.0	30 - 120	
115	In	1	3977219	1.38	4300457	92.5	30 - 120	
165	Ho	1	7552150	0.29	8234026	91.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\154SMPL.D\154SMPL.D#		
Date Acquired:	Nov 16 2011 06:39 pm		
Acq. Method:	NormISIS.M	**QC Summary:**	
Operator:	TEL	**Analytes:**	**Pass**
Sample Name:	280-22775-e-4-c	**ISTD:**	**Pass**
Misc Info:			
Vial Number:	3406		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 04:23 pm		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	53.32	3600	
51	V	72	1	0.75	0.75	ppb	1.96	3600	
52	Cr	72	1	0.15	0.15	ppb	4.56	3600	
55	Mn	72	1	4,817.00	4817.00	ppb	0.57	18000	
59	Co	72	1	6.48	6.48	ppb	0.69	3600	
60	Ni	72	1	17.32	17.32	ppb	0.22	3600	
63	Cu	72	1	0.59	0.59	ppb	4.39	3600	
66	Zn	72	1	4.56	4.56	ppb	1.45	3600	
75	As	72	1	8.11	8.11	ppb	1.06	3600	
78	Se	72	1	0.59	0.59	ppb	18.23	3600	
95	Mo	72	1	0.79	0.79	ppb	1.47	3600	
107	Ag	115	1	0.00	0.00	ppb	87.78	3600	
111	Cd	115	1	0.04	0.04	ppb	23.09	3600	
118	Sn	115	1	0.05	0.05	ppb	31.87	3600	
121	Sb	115	1	0.16	0.16	ppb	1.75	3600	
137	Ba	115	1	1,123.00	1123.00	ppb	0.46	3600	
205	Tl	165	1	0.05	0.05	ppb	2.35	3600	
208	Pb	165	1	0.13	0.13	ppb	2.21	3600	
232	Th	165	1	0.02	0.02	ppb	15.65	1000	
238	U	165	1	1.58	1.58	ppb	1.86	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	390201	0.52	488646	79.9	30 - 120	
45	Sc	1	2181810	2.06	2529221	86.3	30 - 120	
72	Ge	1	1227262	0.86	1504199	81.6	30 - 120	
115	In	1	3650539	0.69	4300457	84.9	30 - 120	
165	Ho	1	7080708	1.16	8234026	86.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\155SMPL.D\155SMPL.D#
Date Acquired:	Nov 16 2011 06:42 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-5-c
Misc Info:	
Vial Number:	3407
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	141.47	3600	
51	V	72	1	0.93	0.93	ppb	1.86	3600	
52	Cr	72	1	0.36	0.36	ppb	2.77	3600	
55	Mn	72	1	811.80	811.80	ppb	0.87	18000	
59	Co	72	1	0.19	0.19	ppb	4.50	3600	
60	Ni	72	1	1.11	1.11	ppb	3.75	3600	
63	Cu	72	1	1.01	1.01	ppb	3.28	3600	
66	Zn	72	1	7.80	7.80	ppb	1.26	3600	
75	As	72	1	11.54	11.54	ppb	2.00	3600	
78	Se	72	1	0.38	0.38	ppb	35.40	3600	
95	Mo	72	1	0.82	0.82	ppb	5.18	3600	
107	Ag	115	1	0.00	0.00	ppb	30.81	3600	
111	Cd	115	1	0.07	0.07	ppb	8.21	3600	
118	Sn	115	1	0.07	0.07	ppb	11.36	3600	
121	Sb	115	1	0.08	0.08	ppb	5.34	3600	
137	Ba	115	1	439.30	439.30	ppb	0.86	3600	
205	Tl	165	1	0.00	0.00	ppb	28.76	3600	
208	Pb	165	1	0.87	0.87	ppb	1.70	3600	
232	Th	165	1	0.04	0.04	ppb	6.33	1000	
238	U	165	1	3.28	3.28	ppb	0.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	377814	0.51	488646	77.3	30 - 120	
45	Sc	1	2091318	0.93	2529221	82.7	30 - 120	
72	Ge	1	1209098	1.22	1504199	80.4	30 - 120	
115	In	1	3565691	0.19	4300457	82.9	30 - 120	
165	Ho	1	6737433	0.49	8234026	81.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\156SMPL.D\156SMPL.D#
Date Acquired:	Nov 16 2011 06:45 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-6-c
Misc Info:	
Vial Number:	3408
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	712.69	3600	
51	V	72	1	0.35	0.35	ppb	11.31	3600	
52	Cr	72	1	0.09	0.09	ppb	13.87	3600	
55	Mn	72	1	2,010.00	2010.00	ppb	0.98	18000	
59	Co	72	1	1.60	1.60	ppb	1.11	3600	
60	Ni	72	1	9.05	9.05	ppb	1.30	3600	
63	Cu	72	1	0.80	0.80	ppb	3.66	3600	
66	Zn	72	1	9.36	9.36	ppb	1.18	3600	
75	As	72	1	52.15	52.15	ppb	1.47	3600	
78	Se	72	1	1.29	1.29	ppb	31.27	3600	
95	Mo	72	1	4.51	4.51	ppb	1.66	3600	
107	Ag	115	1	0.00	0.00	ppb	18.33	3600	
111	Cd	115	1	0.08	0.08	ppb	15.08	3600	
118	Sn	115	1	0.08	0.08	ppb	7.51	3600	
121	Sb	115	1	0.15	0.15	ppb	4.67	3600	
137	Ba	115	1	261.90	261.90	ppb	1.19	3600	
205	Tl	165	1	0.09	0.09	ppb	2.85	3600	
208	Pb	165	1	0.17	0.17	ppb	3.74	3600	
232	Th	165	1	0.00	0.00	ppb	24.05	1000	
238	U	165	1	9.75	9.75	ppb	0.36	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	371646	0.18	488646	76.1	30 - 120	
45	Sc	1	2076991	0.41	2529221	82.1	30 - 120	
72	Ge	1	1162385	0.91	1504199	77.3	30 - 120	
115	In	1	3487503	0.61	4300457	81.1	30 - 120	
165	Ho	1	6745225	0.21	8234026	81.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\157SMPL.D\157SMPL.D#
Date Acquired: Nov 16 2011 06:48 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-7-c
Misc Info:
Vial Number: 3409
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	106.93	3600	
51	V	72	1	0.70	0.70	ppb	1.37	3600	
52	Cr	72	1	0.87	0.87	ppb	0.81	3600	
55	Mn	72	1	864.10	864.10	ppb	0.35	18000	
59	Co	72	1	1.10	1.10	ppb	1.32	3600	
60	Ni	72	1	5.25	5.25	ppb	1.18	3600	
63	Cu	72	1	0.95	0.95	ppb	1.15	3600	
66	Zn	72	1	3.45	3.45	ppb	1.56	3600	
75	As	72	1	64.81	64.81	ppb	0.49	3600	
78	Se	72	1	0.54	0.54	ppb	68.74	3600	
95	Mo	72	1	12.01	12.01	ppb	1.21	3600	
107	Ag	115	1	0.00	0.00	ppb	48.65	3600	
111	Cd	115	1	0.09	0.09	ppb	2.70	3600	
118	Sn	115	1	0.05	0.05	ppb	12.23	3600	
121	Sb	115	1	0.09	0.09	ppb	2.47	3600	
137	Ba	115	1	161.30	161.30	ppb	0.81	3600	
205	Tl	165	1	0.02	0.02	ppb	11.94	3600	
208	Pb	165	1	0.13	0.13	ppb	3.33	3600	
232	Th	165	1	0.01	0.01	ppb	7.90	1000	
238	U	165	1	1.98	1.98	ppb	0.53	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	376074	0.95	488646	77.0	30 - 120	
45	Sc	1	2091720	0.51	2529221	82.7	30 - 120	
72	Ge	1	1175695	1.17	1504199	78.2	30 - 120	
115	In	1	3497490	0.88	4300457	81.3	30 - 120	
165	Ho	1	6761838	0.22	8234026	82.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\158SMPL.D\158SMPL.D#
Date Acquired:	Nov 16 2011 06:51 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-8-c
Misc Info:	
Vial Number:	3410
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	0.78	3600	
51	V	72	1	0.47	0.47	ppb	8.62	3600	
52	Cr	72	1	0.16	0.16	ppb	7.75	3600	
55	Mn	72	1	3,305.00	3305.00	ppb	0.86	18000	
59	Co	72	1	2.85	2.85	ppb	1.12	3600	
60	Ni	72	1	3.84	3.84	ppb	0.18	3600	
63	Cu	72	1	1.28	1.28	ppb	1.73	3600	
66	Zn	72	1	5.82	5.82	ppb	0.95	3600	
75	As	72	1	158.10	158.10	ppb	0.87	3600	
78	Se	72	1	1.74	1.74	ppb	3.92	3600	
95	Mo	72	1	0.80	0.80	ppb	3.03	3600	
107	Ag	115	1	0.02	0.02	ppb	30.19	3600	
111	Cd	115	1	0.03	0.03	ppb	36.84	3600	
118	Sn	115	1	0.05	0.05	ppb	20.66	3600	
121	Sb	115	1	0.05	0.05	ppb	7.69	3600	
137	Ba	115	1	632.80	632.80	ppb	0.61	3600	
205	Tl	165	1	0.02	0.02	ppb	1.65	3600	
208	Pb	165	1	0.16	0.16	ppb	1.69	3600	
232	Th	165	1	0.03	0.03	ppb	9.36	1000	
238	U	165	1	0.37	0.37	ppb	1.53	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	361988	0.58	488646	74.1	30 - 120	
45	Sc	1	2011548	0.66	2529221	79.5	30 - 120	
72	Ge	1	1154360	0.64	1504199	76.7	30 - 120	
115	In	1	3388283	0.24	4300457	78.8	30 - 120	
165	Ho	1	6610074	0.86	8234026	80.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\159SMPL.D\159SMPL.D#
Date Acquired:	Nov 16 2011 06:54 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-9-c
Misc Info:	
Vial Number:	3411
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	0.00	3600	
51	V	72	1	0.00	0.00	ppb	657.41	3600	
52	Cr	72	1	0.03	0.03	ppb	15.95	3600	
55	Mn	72	1	0.43	0.43	ppb	9.78	18000	
59	Co	72	1	0.00	0.00	ppb	135.13	3600	
60	Ni	72	1	0.04	0.04	ppb	40.45	3600	
63	Cu	72	1	0.26	0.26	ppb	4.01	3600	
66	Zn	72	1	1.26	1.26	ppb	1.04	3600	
75	As	72	1	0.02	0.02	ppb	60.58	3600	
78	Se	72	1	0.42	0.42	ppb	60.99	3600	
95	Mo	72	1	-0.01	-0.01	ppb	58.34	3600	
107	Ag	115	1	0.00	0.00	ppb	47.21	3600	
111	Cd	115	1	0.00	0.00	ppb	148.88	3600	
118	Sn	115	1	0.02	0.02	ppb	36.28	3600	
121	Sb	115	1	0.00	0.00	ppb	318.19	3600	
137	Ba	115	1	0.17	0.17	ppb	7.43	3600	
205	Tl	165	1	0.00	0.00	ppb	49.78	3600	
208	Pb	165	1	0.02	0.02	ppb	9.30	3600	
232	Th	165	1	0.00	0.00	ppb	48.23	1000	
238	U	165	1	0.00	0.00	ppb	27.70	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	407260	0.82	488646	83.3	30 - 120	
45	Sc	1	2270994	1.60	2529221	89.8	30 - 120	
72	Ge	1	1365030	1.95	1504199	90.7	30 - 120	
115	In	1	4029816	0.76	4300457	93.7	30 - 120	
165	Ho	1	7367334	0.79	8234026	89.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\160SMPL.D\160SMPL.D#
Date Acquired:	Nov 16 2011 06:57 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-10-c
Misc Info:	
Vial Number:	3412
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1131.90	3600	
51	V	72	1	0.00	0.00	ppb	1282.90	3600	
52	Cr	72	1	0.03	0.03	ppb	18.27	3600	
55	Mn	72	1	0.10	0.10	ppb	4.24	18000	
59	Co	72	1	0.00	0.00	ppb	91.66	3600	
60	Ni	72	1	0.05	0.05	ppb	11.36	3600	
63	Cu	72	1	0.14	0.14	ppb	9.55	3600	
66	Zn	72	1	1.06	1.06	ppb	2.07	3600	
75	As	72	1	0.01	0.01	ppb	64.90	3600	
78	Se	72	1	0.36	0.36	ppb	20.59	3600	
95	Mo	72	1	0.00	0.00	ppb	5.07	3600	
107	Ag	115	1	0.00	0.00	ppb	71.58	3600	
111	Cd	115	1	0.00	0.00	ppb	150.78	3600	
118	Sn	115	1	0.03	0.03	ppb	45.07	3600	
121	Sb	115	1	0.00	0.00	ppb	38.33	3600	
137	Ba	115	1	0.12	0.12	ppb	14.63	3600	
205	Tl	165	1	0.00	0.00	ppb	36.70	3600	
208	Pb	165	1	0.02	0.02	ppb	10.47	3600	
232	Th	165	1	0.00	0.00	ppb	4646.60	1000	
238	U	165	1	0.00	0.00	ppb	21.06	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	410527	1.56	488646	84.0	30 - 120	
45	Sc	1	2323642	1.52	2529221	91.9	30 - 120	
72	Ge	1	1390524	1.04	1504199	92.4	30 - 120	
115	In	1	4084420	1.61	4300457	95.0	30 - 120	
165	Ho	1	7507628	0.84	8234026	91.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\161_CCV.D\161_CCV.D#
Date Acquired: Nov 16 2011 07:00 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.11	ppb	0.60	50	100.2	90 - 110	
51	V	72	1	48.74	ppb	0.91	50	97.5	90 - 110	
52	Cr	72	1	48.65	ppb	1.94	50	97.3	90 - 110	
55	Mn	72	1	48.97	ppb	2.19	50	97.9	90 - 110	
59	Co	72	1	49.25	ppb	2.11	50	98.5	90 - 110	
60	Ni	72	1	47.75	ppb	1.29	50	95.5	90 - 110	
63	Cu	72	1	46.81	ppb	1.74	50	93.6	90 - 110	
66	Zn	72	1	48.06	ppb	0.76	50	96.1	90 - 110	
75	As	72	1	49.71	ppb	0.93	50	99.4	90 - 110	
78	Se	72	1	49.73	ppb	0.73	50	99.5	90 - 110	
95	Mo	72	1	48.89	ppb	0.79	50	97.8	90 - 110	
107	Ag	115	1	49.57	ppb	1.59	50	99.1	90 - 110	
111	Cd	115	1	48.77	ppb	0.37	50	97.5	90 - 110	
118	Sn	115	1	48.05	ppb	0.82	50	96.1	90 - 110	
121	Sb	115	1	47.75	ppb	0.45	50	95.5	90 - 110	
137	Ba	115	1	49.91	ppb	0.18	50	99.8	90 - 110	
205	Tl	165	1	50.13	ppb	0.89	50	100.3	90 - 110	
208	Pb	165	1	48.49	ppb	0.84	50	97.0	90 - 110	
232	Th	165	1	48.83	ppb	1.64	50	97.7	90 - 110	
238	U	165	1	47.89	ppb	1.64	50	95.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	406946	0.50	488646	83.3	30 - 120	
45	Sc	1	2301666	0.32	2529221	91.0	30 - 120	
72	Ge	1	1383879	1.38	1504199	92.0	30 - 120	
115	In	1	4057331	0.67	4300457	94.3	30 - 120	
165	Ho	1	7538876	0.54	8234026	91.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\162_CCB.D\162_CCB.D#
Date Acquired: Nov 16 2011 07:03 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.001	ppb	951.53	1.00	
51	V	72	1	0.000	ppb	1093.00	1.00	
52	Cr	72	1	0.010	ppb	80.15	1.00	
55	Mn	72	1	0.071	ppb	6.75	1.00	
59	Co	72	1	0.006	ppb	33.26	1.00	
60	Ni	72	1	0.006	ppb	140.80	1.00	
63	Cu	72	1	-0.003	ppb	32.81	1.00	
66	Zn	72	1	0.011	ppb	28.18	1.00	
75	As	72	1	0.014	ppb	17.27	1.00	
78	Se	72	1	0.114	ppb	304.13	1.00	
95	Mo	72	1	0.001	ppb	89.56	1.00	
107	Ag	115	1	0.008	ppb	3.80	1.00	
111	Cd	115	1	0.002	ppb	248.27	1.00	
118	Sn	115	1	0.026	ppb	20.83	1.00	
121	Sb	115	1	0.014	ppb	26.72	1.00	
137	Ba	115	1	0.033	ppb	21.97	1.00	
205	Tl	165	1	0.008	ppb	6.63	1.00	
208	Pb	165	1	0.005	ppb	38.25	1.00	
232	Th	165	1	0.035	ppb	16.95	1.00	
238	U	165	1	0.010	ppb	11.41	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	404609	0.69	488646	82.8	30 - 120	
45	Sc	1	2314151	0.73	2529221	91.5	30 - 120	
72	Ge	1	1379017	0.84	1504199	91.7	30 - 120	
115	In	1	4049857	0.97	4300457	94.2	30 - 120	
165	Ho	1	7474074	0.12	8234026	90.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\163WASH.D\163WASH.D#
Date Acquired: Nov 16 2011 07:05 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.065 ppb	7.29	1.30	
51	V	72	1	4.917 ppb	1.40	6.50	
52	Cr	72	1	2.022 ppb	1.68	2.60	
55	Mn	72	1	1.079 ppb	1.56	1.30	
59	Co	72	1	0.990 ppb	1.41	1.30	
60	Ni	72	1	2.060 ppb	1.75	2.60	
63	Cu	72	1	1.999 ppb	0.44	2.60	
66	Zn	72	1	9.928 ppb	0.90	13.00	
75	As	72	1	5.160 ppb	0.76	6.50	
78	Se	72	1	5.115 ppb	8.01	6.50	
95	Mo	72	1	1.972 ppb	4.19	2.60	
107	Ag	115	1	5.007 ppb	0.75	6.50	
111	Cd	115	1	1.039 ppb	3.42	1.30	
118	Sn	115	1	10.360 ppb	1.01	13.00	
121	Sb	115	1	1.966 ppb	1.58	2.60	
137	Ba	115	1	1.065 ppb	4.27	1.30	
205	Tl	165	1	1.019 ppb	1.59	1.30	
208	Pb	165	1	1.003 ppb	1.50	1.30	
232	Th	165	1	1.998 ppb	1.69	2.60	
238	U	165	1	0.970 ppb	0.31	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	405005	0.95	488646	82.9	30 - 120	
45	Sc	1	2329159	0.63	2529221	92.1	30 - 120	
72	Ge	1	1399780	1.15	1504199	93.1	30 - 120	
115	In	1	4088354	0.58	4300457	95.1	30 - 120	
165	Ho	1	7594732	0.59	8234026	92.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\164WASH.D\164WASH.D#
Date Acquired: Nov 16 2011 07:08 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.002 ppb	530.20	1.30	
51	V	72	1	0.175 ppb	59.43	6.50	
52	Cr	72	1	1.477 ppb	1.13	2.60	
55	Mn	72	1	0.743 ppb	3.34	1.30	
59	Co	72	1	0.069 ppb	7.72	1.30	
60	Ni	72	1	1.258 ppb	4.82	2.60	
63	Cu	72	1	0.522 ppb	3.78	2.60	
66	Zn	72	1	2.726 ppb	1.67	13.00	
75	As	72	1	0.595 ppb	2.67	6.50	
78	Se	72	1	0.411 ppb	19.12	6.50	
95	Mo	72	1	2175.000 ppb	0.99	2.60	
107	Ag	115	1	0.060 ppb	6.73	6.50	
111	Cd	115	1	0.636 ppb	13.43	1.30	
118	Sn	115	1	0.163 ppb	8.12	13.00	
121	Sb	115	1	0.283 ppb	1.88	2.60	
137	Ba	115	1	0.751 ppb	2.41	1.30	
205	Tl	165	1	0.016 ppb	5.37	1.30	
208	Pb	165	1	0.155 ppb	2.36	1.30	
232	Th	165	1	0.031 ppb	7.79	2.60	
238	U	165	1	0.005 ppb	3.97	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	327524	1.65	488646	67.0	30 - 120	
45	Sc	1	1862406	1.25	2529221	73.6	30 - 120	
72	Ge	1	1090645	1.39	1504199	72.5	30 - 120	
115	In	1	3256610	0.44	4300457	75.7	30 - 120	
165	Ho	1	6250764	1.15	8234026	75.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\165WASH.D\165WASH.D#
Date Acquired: Nov 16 2011 07:11 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	-0.004 ppb	0.00	1.30	
51 V	72	1	-0.011 ppb	150.14	6.50	
52 Cr	72	1	0.004 ppb	76.79	2.60	
55 Mn	72	1	0.016 ppb	57.70	1.30	
59 Co	72	1	-0.003 ppb	42.28	1.30	
60 Ni	72	1	-0.005 ppb	134.75	2.60	
63 Cu	72	1	0.005 ppb	55.56	2.60	
66 Zn	72	1	-0.025 ppb	16.91	13.00	
75 As	72	1	-0.001 ppb	893.76	6.50	
78 Se	72	1	0.491 ppb	87.91	6.50	
95 Mo	72	1	0.355 ppb	5.38	2.60	
107 Ag	115	1	0.000 ppb	312.39	6.50	
111 Cd	115	1	-0.005 ppb	72.30	1.30	
118 Sn	115	1	-0.002 ppb	79.84	13.00	
121 Sb	115	1	-0.001 ppb	110.34	2.60	
137 Ba	115	1	0.011 ppb	33.08	1.30	
205 Tl	165	1	0.003 ppb	14.45	1.30	
208 Pb	165	1	-0.003 ppb	19.09	1.30	
232 Th	165	1	0.002 ppb	16.29	2.60	
238 U	165	1	-0.001 ppb	32.15	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	388742	0.11	488646	79.6	30 - 120	
45 Sc	1	2201687	1.64	2529221	87.1	30 - 120	
72 Ge	1	1319194	1.28	1504199	87.7	30 - 120	
115 In	1	3927650	0.53	4300457	91.3	30 - 120	
165 Ho	1	7215311	0.26	8234026	87.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\166WASH.D\166WASH.D#
Date Acquired: Nov 16 2011 07:14 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.013	ppb	235.12	1.30	
51	V	72	1	0.006	ppb	163.44	6.50	
52	Cr	72	1	0.014	ppb	40.74	2.60	
55	Mn	72	1	0.003	ppb	174.74	1.30	
59	Co	72	1	-0.002	ppb	78.22	1.30	
60	Ni	72	1	-0.005	ppb	63.05	2.60	
63	Cu	72	1	-0.002	ppb	320.00	2.60	
66	Zn	72	1	-0.029	ppb	15.60	13.00	
75	As	72	1	0.011	ppb	40.09	6.50	
78	Se	72	1	0.596	ppb	7.63	6.50	
95	Mo	72	1	0.075	ppb	14.69	2.60	
107	Ag	115	1	0.000	ppb	591.40	6.50	
111	Cd	115	1	-0.013	ppb	33.89	1.30	
118	Sn	115	1	-0.005	ppb	33.63	13.00	
121	Sb	115	1	-0.002	ppb	30.55	2.60	
137	Ba	115	1	0.006	ppb	36.73	1.30	
205	Tl	165	1	0.001	ppb	144.07	1.30	
208	Pb	165	1	-0.003	ppb	13.78	1.30	
232	Th	165	1	0.001	ppb	148.82	2.60	
238	U	165	1	-0.001	ppb	17.40	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	391868	0.79	488646	80.2	30 - 120	
45	Sc	1	2268557	1.40	2529221	89.7	30 - 120	
72	Ge	1	1352839	0.81	1504199	89.9	30 - 120	
115	In	1	4053710	0.48	4300457	94.3	30 - 120	
165	Ho	1	7441604	1.51	8234026	90.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\167WASH.D\167WASH.D#
Date Acquired: Nov 16 2011 07:17 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.007	ppb	145.18	1.30	
51	V	72	1	0.001	ppb	1126.10	6.50	
52	Cr	72	1	0.009	ppb	26.07	2.60	
55	Mn	72	1	-0.014	ppb	57.12	1.30	
59	Co	72	1	-0.002	ppb	71.71	1.30	
60	Ni	72	1	0.000	ppb	11686.00	2.60	
63	Cu	72	1	-0.001	ppb	120.89	2.60	
66	Zn	72	1	-0.026	ppb	49.44	13.00	
75	As	72	1	0.013	ppb	82.81	6.50	
78	Se	72	1	0.236	ppb	69.49	6.50	
95	Mo	72	1	0.041	ppb	25.88	2.60	
107	Ag	115	1	-0.001	ppb	73.62	6.50	
111	Cd	115	1	0.001	ppb	266.55	1.30	
118	Sn	115	1	-0.002	ppb	103.21	13.00	
121	Sb	115	1	-0.002	ppb	36.93	2.60	
137	Ba	115	1	0.007	ppb	62.58	1.30	
205	Tl	165	1	-0.002	ppb	34.01	1.30	
208	Pb	165	1	-0.004	ppb	7.46	1.30	
232	Th	165	1	0.002	ppb	41.85	2.60	
238	U	165	1	-0.001	ppb	15.85	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	397214	0.31	488646	81.3	30 - 120	
45	Sc	1	2313094	1.35	2529221	91.5	30 - 120	
72	Ge	1	1369515	1.29	1504199	91.0	30 - 120	
115	In	1	4037778	1.18	4300457	93.9	30 - 120	
165	Ho	1	7386760	1.11	8234026	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\168WASH.D\168WASH.D#
Date Acquired: Nov 16 2011 07:20 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.001 ppb	955.06	1.30	
51	V	72	1	-0.003 ppb	492.20	6.50	
52	Cr	72	1	0.011 ppb	71.55	2.60	
55	Mn	72	1	-0.010 ppb	81.54	1.30	
59	Co	72	1	-0.003 ppb	7.18	1.30	
60	Ni	72	1	-0.008 ppb	8.97	2.60	
63	Cu	72	1	-0.001 ppb	316.96	2.60	
66	Zn	72	1	-0.028 ppb	13.71	13.00	
75	As	72	1	0.002 ppb	142.98	6.50	
78	Se	72	1	0.275 ppb	71.17	6.50	
95	Mo	72	1	0.018 ppb	88.69	2.60	
107	Ag	115	1	0.000 ppb	218.71	6.50	
111	Cd	115	1	-0.007 ppb	90.95	1.30	
118	Sn	115	1	-0.004 ppb	73.62	13.00	
121	Sb	115	1	-0.002 ppb	38.48	2.60	
137	Ba	115	1	0.003 ppb	86.44	1.30	
205	Tl	165	1	-0.002 ppb	10.84	1.30	
208	Pb	165	1	-0.003 ppb	15.72	1.30	
232	Th	165	1	0.000 ppb	376.63	2.60	
238	U	165	1	-0.002 ppb	18.18	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	397211	1.29	488646	81.3	30 - 120	
45	Sc	1	2296141	0.80	2529221	90.8	30 - 120	
72	Ge	1	1351566	0.65	1504199	89.9	30 - 120	
115	In	1	4069884	0.35	4300457	94.6	30 - 120	
165	Ho	1	7481681	1.02	8234026	90.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\169CALB.D\169CALB.D#
Date Acquired:	Nov 16 2011 07:23 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	Cal Blank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	13	114.86
51	V	72	1	-65	490.68
52	Cr	72	1	1617	11.14
55	Mn	72	1	2740	4.51
59	Co	72	1	217	31.27
60	Ni	72	1	123	19.72
63	Cu	72	1	870	2.34
66	Zn	72	1	313	11.75
75	As	72	1	102	7.48
78	Se	72	1	373	4.26
95	Mo	72	1	337	10.48
107	Ag	115	1	87	26.47
111	Cd	115	1	40	20.82
118	Sn	115	1	350	7.22
121	Sb	115	1	80	21.46
137	Ba	115	1	182	2.73
205	Tl	165	1	317	2.30
208	Pb	165	1	967	2.33
232	Th	165	1	307	9.10
238	U	165	1	392	5.36

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	398273	0.42
45	Sc	1	2309711	0.73
72	Ge	1	1385764	0.72
115	In	1	4068761	0.80
165	Ho	1	7411338	0.50

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#
Date Acquired:	Nov 16 2011 07:26 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1131044
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:24 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
51	V	72	1	-12	2845.70
52	Cr	72	1	1593	19.58
55	Mn	72	1	2647	5.20
59	Co	72	1	77	30.42
60	Ni	72	1	170	14.94
63	Cu	72	1	853	14.13
66	Zn	72	1	291	2.16
75	As	72	1	102	9.70
78	Se	72	1	470	12.43
95	Mo	72	1	170	25.18
107	Ag	115	1	27	44.12
111	Cd	115	1	27	9.67
118	Sn	115	1	273	4.56
121	Sb	115	1	29	23.60
137	Ba	115	1	180	18.53
205	Tl	165	1	147	4.32
208	Pb	165	1	763	6.48
232	Th	165	1	190	11.21
238	U	165	1	118	23.35

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	398260	0.11
45	Sc	1	2300683	0.80
72	Ge	1	1383338	0.71
115	In	1	4023995	0.73
165	Ho	1	7427449	0.69

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\171ICAL.D\171ICAL.D#
Date Acquired:	Nov 16 2011 07:29 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1131031
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:27 pm
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	59968	2.67
51	V	72	1	1949427	0.35
52	Cr	72	1	2036525	1.74
55	Mn	72	1	1904327	1.50
59	Co	72	1	2929677	1.48
60	Ni	72	1	692710	1.50
63	Cu	72	1	1716538	1.07
66	Zn	72	1	279967	1.45
75	As	72	1	207187	1.16
78	Se	72	1	32019	2.40
95	Mo	72	1	818246	0.98
107	Ag	115	1	2560934	0.72
111	Cd	115	1	411249	1.17
118	Sn	115	1	1123679	2.08
121	Sb	115	1	1184281	0.78
137	Ba	115	1	509766	0.56
205	Tl	165	1	4228235	1.44
208	Pb	165	1	5793373	0.56
232	Th	165	1	5642934	2.23
238	U	165	1	6012322	1.94

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	391440	2.03	398260	98.3	30 - 120	
45	Sc	1	2235079	0.58	2300683	97.1	30 - 120	
72	Ge	1	1342017	1.47	1383338	97.0	30 - 120	
115	In	1	3977531	0.81	4023995	98.8	30 - 120	
165	Ho	1	7216553	0.98	7427449	97.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\172_CCV.D\172_CCV.D#
Date Acquired: Nov 16 2011 07:32 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.59	ppb	0.47	50	99.2	90 - 110	
51	V	72	1	49.78	ppb	2.42	50	99.6	90 - 110	
52	Cr	72	1	50.68	ppb	1.28	50	101.4	90 - 110	
55	Mn	72	1	50.56	ppb	0.99	50	101.1	90 - 110	
59	Co	72	1	50.75	ppb	1.26	50	101.5	90 - 110	
60	Ni	72	1	49.60	ppb	1.49	50	99.2	90 - 110	
63	Cu	72	1	48.62	ppb	0.88	50	97.2	90 - 110	
66	Zn	72	1	50.08	ppb	1.25	50	100.2	90 - 110	
75	As	72	1	49.91	ppb	1.33	50	99.8	90 - 110	
78	Se	72	1	48.93	ppb	3.36	50	97.9	90 - 110	
95	Mo	72	1	49.65	ppb	0.22	50	99.3	90 - 110	
107	Ag	115	1	50.16	ppb	1.59	50	100.3	90 - 110	
111	Cd	115	1	49.97	ppb	1.74	50	99.9	90 - 110	
118	Sn	115	1	48.74	ppb	1.67	50	97.5	90 - 110	
121	Sb	115	1	47.83	ppb	2.09	50	95.7	90 - 110	
137	Ba	115	1	50.48	ppb	2.00	50	101.0	90 - 110	
205	Tl	165	1	51.22	ppb	0.80	50	102.4	90 - 110	
208	Pb	165	1	49.51	ppb	0.97	50	99.0	90 - 110	
232	Th	165	1	51.26	ppb	1.42	50	102.5	90 - 110	
238	U	165	1	50.87	ppb	1.40	50	101.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	390990	0.47	398260	98.2	30 - 120	
45	Sc	1	2221780	0.32	2300683	96.6	30 - 120	
72	Ge	1	1328843	0.62	1383338	96.1	30 - 120	
115	In	1	3943639	1.39	4023995	98.0	30 - 120	
165	Ho	1	7301730	0.95	7427449	98.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\173_CCB.D\173_CCB.D#
Date Acquired:	Nov 16 2011 07:34 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.011	ppb	173.10	1.00	
51	V	72	1	0.011	ppb	87.57	1.00	
52	Cr	72	1	0.009	ppb	69.56	1.00	
55	Mn	72	1	0.004	ppb	29.95	1.00	
59	Co	72	1	0.010	ppb	18.03	1.00	
60	Ni	72	1	0.015	ppb	13.09	1.00	
63	Cu	72	1	-0.001	ppb	1436.80	1.00	
66	Zn	72	1	0.021	ppb	69.09	1.00	
75	As	72	1	0.012	ppb	86.20	1.00	
78	Se	72	1	0.027	ppb	434.80	1.00	
95	Mo	72	1	0.020	ppb	19.62	1.00	
107	Ag	115	1	0.011	ppb	7.54	1.00	
111	Cd	115	1	0.011	ppb	63.18	1.00	
118	Sn	115	1	0.047	ppb	23.03	1.00	
121	Sb	115	1	0.021	ppb	4.56	1.00	
137	Ba	115	1	0.003	ppb	153.52	1.00	
205	Tl	165	1	0.025	ppb	5.54	1.00	
208	Pb	165	1	0.009	ppb	15.92	1.00	
232	Th	165	1	0.045	ppb	17.62	1.00	
238	U	165	1	0.016	ppb	2.02	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	387837	1.04	398260	97.4	30 - 120	
45	Sc	1	2225787	1.30	2300683	96.7	30 - 120	
72	Ge	1	1318347	1.09	1383338	95.3	30 - 120	
115	In	1	3904533	0.99	4023995	97.0	30 - 120	
165	Ho	1	7283282	0.40	7427449	98.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\174WASH.D\174WASH.D#
Date Acquired: Nov 16 2011 07:37 pm
Operator: TEL
Sample Name: LLICV-1131045
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.945	ppb	14.91	1.30	
51	V	72	1	5.010	ppb	2.09	6.50	
52	Cr	72	1	2.119	ppb	1.99	2.60	
55	Mn	72	1	1.055	ppb	3.43	1.30	
59	Co	72	1	1.002	ppb	2.09	1.30	
60	Ni	72	1	2.085	ppb	4.00	2.60	
63	Cu	72	1	2.006	ppb	2.41	2.60	
66	Zn	72	1	10.260	ppb	0.63	13.00	
75	As	72	1	5.196	ppb	1.80	6.50	
78	Se	72	1	5.316	ppb	19.68	6.50	
95	Mo	72	1	2.074	ppb	4.00	2.60	
107	Ag	115	1	5.062	ppb	2.15	6.50	
111	Cd	115	1	1.064	ppb	4.96	1.30	
118	Sn	115	1	10.350	ppb	0.70	13.00	
121	Sb	115	1	1.999	ppb	0.62	2.60	
137	Ba	115	1	1.045	ppb	1.43	1.30	
205	Tl	165	1	1.052	ppb	1.91	1.30	
208	Pb	165	1	1.020	ppb	1.44	1.30	
232	Th	165	1	2.068	ppb	3.81	2.60	
238	U	165	1	1.027	ppb	2.15	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	391591	1.31	398260	98.3	30 - 120	
45	Sc	1	2230970	1.01	2300683	97.0	30 - 120	
72	Ge	1	1333054	1.19	1383338	96.4	30 - 120	
115	In	1	3942464	1.35	4023995	98.0	30 - 120	
165	Ho	1	7236519	1.06	7427449	97.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\175_BLK.D\175_BLK.D#
Date Acquired:	Nov 16 2011 07:40 pm
Operator:	TEL
Sample Name:	mb 280-96043/1-a
Misc Info:	BLANK 96043 Soil DoD4/6020A
Vial Number:	3501
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.011 ppb	86.63	2.00	
51	V	72	1	0.011 ppb	56.43	2.00	
52	Cr	72	1	0.044 ppb	10.83	2.00	
55	Mn	72	1	0.071 ppb	10.45	2.00	
59	Co	72	1	0.003 ppb	31.06	2.00	
60	Ni	72	1	0.058 ppb	9.36	2.00	
63	Cu	72	1	0.168 ppb	4.56	2.00	
66	Zn	72	1	0.498 ppb	1.88	2.00	
75	As	72	1	-0.001 ppb	441.59	2.00	
78	Se	72	1	-0.100 ppb	113.20	2.00	
95	Mo	72	1	0.001 ppb	344.83	2.00	
107	Ag	115	1	0.007 ppb	21.94	2.00	
111	Cd	115	1	0.002 ppb	255.90	2.00	
118	Sn	115	1	0.067 ppb	18.03	2.00	
121	Sb	115	1	0.005 ppb	41.15	2.00	
137	Ba	115	1	0.068 ppb	17.52	2.00	
205	Tl	165	1	0.008 ppb	12.40	2.00	
208	Pb	165	1	0.025 ppb	5.42	2.00	
232	Th	165	1	0.019 ppb	25.58	2.00	
238	U	165	1	0.007 ppb	17.10	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	389270	0.75	398260	97.7	30 - 120	
45	Sc	1	2217170	0.74	2300683	96.4	30 - 120	
72	Ge	1	1327306	0.72	1383338	95.9	30 - 120	
115	In	1	3941425	0.86	4023995	97.9	30 - 120	
165	Ho	1	7394321	1.19	7427449	99.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\176_LCS.D\176_LCS.D#
Date Acquired:	Nov 16 2011 07:43 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-96043/2-a
Misc Info:	LCS
Vial Number:	3502
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	38.23	4.43	40	95.6	80 - 120	
51	V	72	1	37.12	0.78	40	92.8	80 - 120	
52	Cr	72	1	37.79	0.47	40	94.5	80 - 120	
55	Mn	72	1	37.67	0.59	40	94.2	80 - 120	
59	Co	72	1	38.39	1.67	40	96.0	80 - 120	
60	Ni	72	1	37.94	0.90	40	94.9	80 - 120	
63	Cu	72	1	37.73	0.68	40	94.3	80 - 120	
66	Zn	72	1	37.31	0.64	40	93.3	80 - 120	
75	As	72	1	37.63	0.66	40	94.1	80 - 120	
78	Se	72	1	38.03	3.89	40	95.1	80 - 120	
95	Mo	72	1	37.68	0.26	40	94.2	80 - 120	
107	Ag	115	1	37.12	0.62	40	92.8	80 - 120	
111	Cd	115	1	37.38	1.07	40	93.5	80 - 120	
118	Sn	115	1	36.49	1.40	40	91.2	80 - 120	
121	Sb	115	1	35.36	0.47	40	88.4	80 - 120	
137	Ba	115	1	38.53	0.53	40	96.3	80 - 120	
205	Tl	165	1	38.81	1.44	40	97.0	80 - 120	
208	Pb	165	1	37.85	1.37	40	94.6	80 - 120	
232	Th	165	1	37.97	1.55	40	94.9	80 - 120	
238	U	165	1	39.79	0.46	40	99.5	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	389977	0.03	398260	97.9	30 - 120	
45	Sc	1	2201882	0.41	2300683	95.7	30 - 120	
72	Ge	1	1318045	0.79	1383338	95.3	30 - 120	
115	In	1	3944902	0.39	4023995	98.0	30 - 120	
165	Ho	1	7241193	1.08	7427449	97.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\177AREF.D\177AREF.D#
Date Acquired:	Nov 16 2011 07:46 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-b-9-a
Misc Info:	
Vial Number:	3503
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.20	2.20	ppb	9.76	3600	
51	V	72	1	175.20	175.20	ppb	0.67	3600	
52	Cr	72	1	32.10	32.10	ppb	0.52	3600	
55	Mn	72	1	105.30	105.30	ppb	0.82	18000	
59	Co	72	1	4.61	4.61	ppb	0.57	3600	
60	Ni	72	1	7.25	7.25	ppb	0.79	3600	
63	Cu	72	1	2.72	2.72	ppb	2.46	3600	
66	Zn	72	1	40.71	40.71	ppb	0.11	3600	
75	As	72	1	44.47	44.47	ppb	0.56	3600	
78	Se	72	1	0.52	0.52	ppb	63.38	3600	
95	Mo	72	1	1.62	1.62	ppb	1.05	3600	
107	Ag	115	1	0.02	0.02	ppb	9.62	3600	
111	Cd	115	1	0.18	0.18	ppb	13.19	3600	
118	Sn	115	1	0.18	0.18	ppb	13.28	3600	
121	Sb	115	1	0.13	0.13	ppb	5.04	3600	
137	Ba	115	1	3.89	3.89	ppb	0.88	3600	
205	Tl	165	1	0.06	0.06	ppb	17.14	3600	
208	Pb	165	1	28.79	28.79	ppb	0.57	3600	
232	Th	165	1	3.03	3.03	ppb	1.72	1000	
238	U	165	1	2.16	2.16	ppb	0.46	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	363715	1.77	398260	91.3	30 - 120	
45	Sc	1	2134660	0.83	2300683	92.8	30 - 120	
72	Ge	1	1302973	0.35	1383338	94.2	30 - 120	
115	In	1	3768194	0.48	4023995	93.6	30 - 120	
165	Ho	1	7148659	0.39	7427449	96.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\178SDIL.D\178SDIL.D#
Date Acquired:	Nov 16 2011 07:49 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-b-9-a SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	3504
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\177AREF.D\177AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.43	ppb	1.85	0.44	98.3	90 - 110	
51	V	72	1	36.53	ppb	0.49	35.04	104.3	90 - 110	
52	Cr	72	1	6.67	ppb	0.58	6.42	103.8	90 - 110	
55	Mn	72	1	21.53	ppb	0.09	21.06	102.2	90 - 110	
59	Co	72	1	0.97	ppb	1.45	0.92	105.6	90 - 110	
60	Ni	72	1	1.57	ppb	4.21	1.45	108.3	90 - 110	
63	Cu	72	1	0.61	ppb	0.90	0.54	111.7	90 - 110	
66	Zn	72	1	8.80	ppb	0.77	8.14	108.0	90 - 110	
75	As	72	1	9.58	ppb	0.91	8.89	107.7	90 - 110	
78	Se	72	1	0.17	ppb	208.81	0.10	164.9	90 - 110	
95	Mo	72	1	0.34	ppb	4.06	0.32	105.0	90 - 110	
107	Ag	115	1	0.01	ppb	13.54	0.00	112.2	90 - 110	
111	Cd	115	1	0.04	ppb	14.29	0.04	121.1	90 - 110	
118	Sn	115	1	0.04	ppb	10.85	0.04	105.8	90 - 110	
121	Sb	115	1	0.03	ppb	3.03	0.03	97.2	90 - 110	
137	Ba	115	1	0.78	ppb	2.60	0.78	100.5	90 - 110	
205	Tl	165	1	0.01	ppb	18.52	0.01	67.1	90 - 110	
208	Pb	165	1	5.95	ppb	0.83	5.76	103.2	90 - 110	
232	Th	165	1	0.62	ppb	1.63	0.61	102.3	90 - 110	
238	U	165	1	0.44	ppb	1.13	0.43	102.5	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	372951	0.88	398260	93.6	30 - 120	
45	Sc	1	2190578	0.58	2300683	95.2	30 - 120	
72	Ge	1	1331675	0.32	1383338	96.3	30 - 120	
115	In	1	3892664	1.63	4023995	96.7	30 - 120	
165	Ho	1	7253601	0.46	7427449	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\179PDS.D\179PDS.D#
Date Acquired:	Nov 16 2011 07:52 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-b-9-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3505
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	203.90	2.19	ppb	0.62	200	100.8	75 - 125	
51 V	72	1	356.40	175.20	ppb	0.05	200	95.0	75 - 125	
52 Cr	72	1	224.50	32.10	ppb	0.21	200	96.7	75 - 125	
55 Mn	72	1	288.80	105.30	ppb	0.44	200	94.6	75 - 125	
59 Co	72	1	193.00	4.61	ppb	0.45	200	94.3	75 - 125	
60 Ni	72	1	204.40	7.25	ppb	0.73	200	98.6	75 - 125	
63 Cu	72	1	190.20	2.72	ppb	0.51	200	93.8	75 - 125	
66 Zn	72	1	226.70	40.71	ppb	0.40	200	94.2	75 - 125	
75 As	72	1	236.60	44.47	ppb	0.26	200	96.8	75 - 125	
78 Se	72	1	189.60	0.52	ppb	0.55	200	94.6	75 - 125	
95 Mo	72	1	206.30	1.62	ppb	0.15	200	102.3	75 - 125	
107 Ag	115	1	50.02	0.02	ppb	0.65	50	100.0	75 - 125	
111 Cd	115	1	201.90	0.18	ppb	0.66	200	100.9	75 - 125	
118 Sn	115	1	203.80	0.18	ppb	0.74	200	101.8	75 - 125	
121 Sb	115	1	198.50	0.13	ppb	0.40	200	99.2	75 - 125	
137 Ba	115	1	213.60	3.89	ppb	0.64	200	104.8	75 - 125	
205 Tl	165	1	196.10	0.06	ppb	1.51	200	98.0	75 - 125	
208 Pb	165	1	220.90	28.79	ppb	1.15	200	96.6	75 - 125	
232 Th	165	1	2.96	3.03	ppb	0.56	200	1.5	75 - 125	
238 U	165	1	200.40	2.16	ppb	0.34	200	99.1	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	348889	0.25	398260	87.6	30 - 120	
45 Sc	1	2081808	0.67	2300683	90.5	30 - 120	
72 Ge	1	1270369	0.29	1383338	91.8	30 - 120	
115 In	1	3691038	0.30	4023995	91.7	30 - 120	
165 Ho	1	7071995	0.83	7427449	95.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\180_MS.D\180_MS.D#
Date Acquired:	Nov 16 2011 07:55 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-b-9-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	3506
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	41.25	2.19	ppb	1.73	40	97.8	50 - 150	
51	V	72	1	203.80	175.20	ppb	0.23	40	94.7	50 - 150	
52	Cr	72	1	69.18	32.10	ppb	0.72	40	96.0	50 - 150	
55	Mn	72	1	143.50	105.30	ppb	1.61	40	98.8	50 - 150	
59	Co	72	1	42.73	4.61	ppb	1.69	40	95.8	50 - 150	
60	Ni	72	1	43.54	7.25	ppb	0.65	40	92.1	50 - 150	
63	Cu	72	1	38.47	2.72	ppb	0.13	40	90.0	50 - 150	
66	Zn	72	1	74.70	40.71	ppb	0.50	40	92.6	50 - 150	
75	As	72	1	78.27	44.47	ppb	0.67	40	92.7	50 - 150	
78	Se	72	1	28.55	0.52	ppb	2.77	40	70.5	50 - 150	
95	Mo	72	1	35.05	1.62	ppb	0.56	40	84.2	50 - 150	
107	Ag	115	1	29.71	0.02	ppb	1.15	40	74.2	50 - 150	
111	Cd	115	1	39.23	0.18	ppb	0.66	40	97.6	50 - 150	
118	Sn	115	1	32.56	0.18	ppb	0.53	40	81.0	50 - 150	
121	Sb	115	1	22.38	0.13	ppb	0.77	40	55.8	50 - 150	
137	Ba	115	1	45.19	3.89	ppb	0.69	40	103.0	50 - 150	
205	Tl	165	1	39.54	0.06	ppb	0.92	40	98.7	50 - 150	
208	Pb	165	1	65.30	28.79	ppb	0.28	40	94.9	50 - 150	
232	Th	165	1	45.09	3.03	ppb	0.20	40	104.8	50 - 150	
238	U	165	1	41.79	2.16	ppb	0.81	40	99.1	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	351487	0.81	398260	88.3	30 - 120	
45	Sc	1	2102693	0.45	2300683	91.4	30 - 120	
72	Ge	1	1281316	0.17	1383338	92.6	30 - 120	
115	In	1	3705914	0.88	4023995	92.1	30 - 120	
165	Ho	1	7025428	0.45	7427449	94.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\181_CCV.D\181_CCV.D#
Date Acquired:	Nov 16 2011 07:58 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.36	ppb	2.16	50	102.7	90 - 110	
51	V	72	1	49.73	ppb	0.12	50	99.5	90 - 110	
52	Cr	72	1	49.83	ppb	0.36	50	99.7	90 - 110	
55	Mn	72	1	49.00	ppb	2.98	50	98.0	90 - 110	
59	Co	72	1	50.14	ppb	1.95	50	100.3	90 - 110	
60	Ni	72	1	49.32	ppb	1.17	50	98.6	90 - 110	
63	Cu	72	1	48.06	ppb	1.15	50	96.1	90 - 110	
66	Zn	72	1	48.93	ppb	1.31	50	97.9	90 - 110	
75	As	72	1	49.49	ppb	0.73	50	99.0	90 - 110	
78	Se	72	1	50.55	ppb	1.54	50	101.1	90 - 110	
95	Mo	72	1	49.33	ppb	1.04	50	98.7	90 - 110	
107	Ag	115	1	50.71	ppb	1.36	50	101.4	90 - 110	
111	Cd	115	1	49.97	ppb	0.50	50	99.9	90 - 110	
118	Sn	115	1	48.45	ppb	0.85	50	96.9	90 - 110	
121	Sb	115	1	47.87	ppb	0.56	50	95.7	90 - 110	
137	Ba	115	1	50.25	ppb	0.22	50	100.5	90 - 110	
205	Tl	165	1	51.09	ppb	0.72	50	102.2	90 - 110	
208	Pb	165	1	49.47	ppb	0.20	50	98.9	90 - 110	
232	Th	165	1	51.02	ppb	0.99	50	102.0	90 - 110	
238	U	165	1	50.82	ppb	0.51	50	101.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	362828	0.54	398260	91.1	30 - 120	
45	Sc	1	2152195	1.03	2300683	93.5	30 - 120	
72	Ge	1	1327716	0.99	1383338	96.0	30 - 120	
115	In	1	3901912	0.43	4023995	97.0	30 - 120	
165	Ho	1	7260949	0.39	7427449	97.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\182_CCB.D\182_CCB.D#
Date Acquired: Nov 16 2011 08:00 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.024	ppb	42.62	1.00	
51	V	72	1	0.023	ppb	31.10	1.00	
52	Cr	72	1	0.019	ppb	54.45	1.00	
55	Mn	72	1	-0.007	ppb	144.66	1.00	
59	Co	72	1	0.013	ppb	17.04	1.00	
60	Ni	72	1	0.009	ppb	120.55	1.00	
63	Cu	72	1	0.006	ppb	153.08	1.00	
66	Zn	72	1	0.017	ppb	11.49	1.00	
75	As	72	1	0.019	ppb	24.73	1.00	
78	Se	72	1	-0.055	ppb	112.52	1.00	
95	Mo	72	1	0.016	ppb	28.76	1.00	
107	Ag	115	1	0.012	ppb	16.54	1.00	
111	Cd	115	1	0.010	ppb	64.08	1.00	
118	Sn	115	1	0.040	ppb	11.25	1.00	
121	Sb	115	1	0.022	ppb	14.78	1.00	
137	Ba	115	1	-0.001	ppb	222.54	1.00	
205	Tl	165	1	0.026	ppb	9.66	1.00	
208	Pb	165	1	0.014	ppb	11.67	1.00	
232	Th	165	1	0.028	ppb	4.90	1.00	
238	U	165	1	0.018	ppb	4.34	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	366577	0.82	398260	92.0	30 - 120	
45	Sc	1	2219094	0.52	2300683	96.5	30 - 120	
72	Ge	1	1336152	1.56	1383338	96.6	30 - 120	
115	In	1	3953792	0.88	4023995	98.3	30 - 120	
165	Ho	1	7255008	0.48	7427449	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\183WASH.D\183WASH.D#		
Date Acquired:	Nov 16 2011 08:03 pm		
Operator:	TEL	**QC Summary:**	
Sample Name:	LLICV-1131923	**Analytes:**	**Pass**
Misc Info:		**ISTD:**	**Pass**
Vial Number:	1204		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal Update:	Nov 16 2011 07:29 pm		
Sample Type:	WASH		
Total Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.172	ppb	15.59	1.30	
51	V	72	1	5.090	ppb	2.48	6.50	
52	Cr	72	1	2.110	ppb	1.57	2.60	
55	Mn	72	1	1.047	ppb	1.79	1.30	
59	Co	72	1	1.025	ppb	0.57	1.30	
60	Ni	72	1	2.064	ppb	4.04	2.60	
63	Cu	72	1	2.029	ppb	1.12	2.60	
66	Zn	72	1	10.440	ppb	1.33	13.00	
75	As	72	1	5.280	ppb	1.10	6.50	
78	Se	72	1	5.840	ppb	11.53	6.50	
95	Mo	72	1	2.139	ppb	1.54	2.60	
107	Ag	115	1	5.129	ppb	1.87	6.50	
111	Cd	115	1	1.057	ppb	3.20	1.30	
118	Sn	115	1	10.280	ppb	1.25	13.00	
121	Sb	115	1	2.006	ppb	0.75	2.60	
137	Ba	115	1	1.051	ppb	3.43	1.30	
205	Tl	165	1	1.046	ppb	0.78	1.30	
208	Pb	165	1	1.011	ppb	0.59	1.30	
232	Th	165	1	2.059	ppb	2.28	2.60	
238	U	165	1	1.014	ppb	1.22	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	370803	0.83	398260	93.1	30 - 120	
45	Sc	1	2249044	0.79	2300683	97.8	30 - 120	
72	Ge	1	1332993	1.02	1383338	96.4	30 - 120	
115	In	1	3973443	0.27	4023995	98.7	30 - 120	
165	Ho	1	7371747	0.39	7427449	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\184_MSD.D\184_MSD.D#
Date Acquired: Nov 16 2011 08:06 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-b-9-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3507
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\180_MS.D\180_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	40.40	ppb	1.18	41.25	2.08	20	
51	V	72	1	193.80	ppb	1.46	203.80	5.03	20	
52	Cr	72	1	69.21	ppb	1.20	69.18	0.04	20	
55	Mn	72	1	130.30	ppb	1.81	143.50	9.64	20	
59	Co	72	1	41.67	ppb	2.61	42.73	2.51	20	
60	Ni	72	1	43.71	ppb	1.79	43.54	0.39	20	
63	Cu	72	1	37.97	ppb	0.85	38.47	1.31	20	
66	Zn	72	1	73.56	ppb	1.29	74.70	1.54	20	
75	As	72	1	68.04	ppb	1.10	78.27	13.98	20	
78	Se	72	1	23.65	ppb	4.83	28.55	18.77	20	
95	Mo	72	1	32.46	ppb	0.84	35.05	7.67	20	
107	Ag	115	1	28.08	ppb	1.04	29.71	5.64	20	
111	Cd	115	1	37.87	ppb	0.47	39.23	3.53	20	
118	Sn	115	1	30.59	ppb	0.75	32.56	6.24	20	
121	Sb	115	1	20.70	ppb	0.47	22.38	7.80	20	
137	Ba	115	1	42.45	ppb	0.34	45.19	6.25	20	
205	Tl	165	1	38.47	ppb	1.19	39.54	2.74	20	
208	Pb	165	1	63.85	ppb	0.72	65.30	2.25	20	
232	Th	165	1	43.07	ppb	0.89	45.09	4.58	20	
238	U	165	1	40.94	ppb	0.56	41.79	2.05	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	355985	1.31	398260	89.4	30 - 120	
45	Sc	1	2135360	0.35	2300683	92.8	30 - 120	
72	Ge	1	1299129	1.17	1383338	93.9	30 - 120	
115	In	1	3785591	0.49	4023995	94.1	30 - 120	
165	Ho	1	7176580	0.62	7427449	96.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\185SMPL.D\185SMPL.D#
Date Acquired:	Nov 16 2011 08:09 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-a-10-a
Misc Info:	
Vial Number:	3508
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.07	1.07	ppb	5.53	3600	
51	V	72	1	98.63	98.63	ppb	1.08	3600	
52	Cr	72	1	16.37	16.37	ppb	0.75	3600	
55	Mn	72	1	64.95	64.95	ppb	0.81	18000	
59	Co	72	1	2.78	2.78	ppb	2.25	3600	
60	Ni	72	1	4.14	4.14	ppb	3.71	3600	
63	Cu	72	1	1.96	1.96	ppb	3.63	3600	
66	Zn	72	1	21.79	21.79	ppb	0.80	3600	
75	As	72	1	26.75	26.75	ppb	0.70	3600	
78	Se	72	1	0.45	0.45	ppb	24.81	3600	
95	Mo	72	1	0.98	0.98	ppb	2.08	3600	
107	Ag	115	1	0.02	0.02	ppb	19.85	3600	
111	Cd	115	1	0.11	0.11	ppb	19.75	3600	
118	Sn	115	1	0.13	0.13	ppb	5.31	3600	
121	Sb	115	1	0.09	0.09	ppb	9.54	3600	
137	Ba	115	1	3.10	3.10	ppb	0.49	3600	
205	Tl	165	1	0.03	0.03	ppb	10.35	3600	
208	Pb	165	1	15.70	15.70	ppb	0.27	3600	
232	Th	165	1	1.81	1.81	ppb	0.86	1000	
238	U	165	1	1.13	1.13	ppb	1.01	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	360289	0.33	398260	90.5	30 - 120	
45	Sc	1	2144164	1.86	2300683	93.2	30 - 120	
72	Ge	1	1305552	0.11	1383338	94.4	30 - 120	
115	In	1	3851361	1.25	4023995	95.7	30 - 120	
165	Ho	1	7149455	0.51	7427449	96.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\186SMPL.D\186SMPL.D#
Date Acquired:	Nov 16 2011 08:12 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-b-15-a
Misc Info:	
Vial Number:	3509
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.07	0.07	ppb	50.57	3600	
51	V	72	1	4.56	4.56	ppb	2.56	3600	
52	Cr	72	1	1.57	1.57	ppb	3.04	3600	
55	Mn	72	1	20.00	20.00	ppb	1.98	18000	
59	Co	72	1	0.41	0.41	ppb	2.08	3600	
60	Ni	72	1	1.25	1.25	ppb	4.38	3600	
63	Cu	72	1	9.70	9.70	ppb	1.45	3600	
66	Zn	72	1	5.27	5.27	ppb	1.48	3600	
75	As	72	1	1.58	1.58	ppb	2.44	3600	
78	Se	72	1	-0.07	-0.07	ppb	583.70	3600	
95	Mo	72	1	0.27	0.27	ppb	3.37	3600	
107	Ag	115	1	0.02	0.02	ppb	0.86	3600	
111	Cd	115	1	0.05	0.05	ppb	9.48	3600	
118	Sn	115	1	0.31	0.31	ppb	11.22	3600	
121	Sb	115	1	0.02	0.02	ppb	11.00	3600	
137	Ba	115	1	1.74	1.74	ppb	2.25	3600	
205	Tl	165	1	0.03	0.03	ppb	7.97	3600	
208	Pb	165	1	1.62	1.62	ppb	0.23	3600	
232	Th	165	1	1.09	1.09	ppb	3.21	1000	
238	U	165	1	0.23	0.23	ppb	0.80	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	364199	0.69	398260	91.4	30 - 120	
45	Sc	1	2164335	0.86	2300683	94.1	30 - 120	
72	Ge	1	1305344	0.81	1383338	94.4	30 - 120	
115	In	1	3901572	0.60	4023995	97.0	30 - 120	
165	Ho	1	7260041	0.43	7427449	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\187SMPL.D\187SMPL.D#
Date Acquired:	Nov 16 2011 08:15 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-a-16-a
Misc Info:	
Vial Number:	3510
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	49.32	3600	
51	V	72	1	3.39	3.39	ppb	1.76	3600	
52	Cr	72	1	1.72	1.72	ppb	0.91	3600	
55	Mn	72	1	8.81	8.81	ppb	1.48	18000	
59	Co	72	1	0.29	0.29	ppb	1.69	3600	
60	Ni	72	1	1.14	1.14	ppb	3.38	3600	
63	Cu	72	1	0.77	0.77	ppb	1.16	3600	
66	Zn	72	1	3.38	3.38	ppb	0.63	3600	
75	As	72	1	1.40	1.40	ppb	5.02	3600	
78	Se	72	1	0.09	0.09	ppb	264.61	3600	
95	Mo	72	1	0.30	0.30	ppb	7.40	3600	
107	Ag	115	1	0.01	0.01	ppb	12.97	3600	
111	Cd	115	1	0.05	0.05	ppb	14.62	3600	
118	Sn	115	1	0.10	0.10	ppb	11.48	3600	
121	Sb	115	1	0.02	0.02	ppb	11.26	3600	
137	Ba	115	1	2.13	2.13	ppb	2.79	3600	
205	Tl	165	1	0.02	0.02	ppb	6.14	3600	
208	Pb	165	1	1.71	1.71	ppb	1.28	3600	
232	Th	165	1	1.27	1.27	ppb	0.74	1000	
238	U	165	1	0.23	0.23	ppb	2.04	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	368202	0.53	398260	92.5	30 - 120	
45	Sc	1	2213829	0.47	2300683	96.2	30 - 120	
72	Ge	1	1331251	1.13	1383338	96.2	30 - 120	
115	In	1	3917335	0.78	4023995	97.3	30 - 120	
165	Ho	1	7253069	0.98	7427449	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\188SMPL.D\188SMPL.D#		
Date Acquired:	Nov 16 2011 08:18 pm		
Acq. Method:	NormISIS.M	QC Summary:	
Operator:	TEL	Analytes:	Pass
Sample Name:	280-22438-a-17-a	ISTD:	Pass
Misc Info:			
Vial Number:	3511		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 07:29 pm		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.15	0.15	ppb	17.95	3600	
51	V	72	1	4.93	4.93	ppb	1.39	3600	
52	Cr	72	1	1.75	1.75	ppb	2.74	3600	
55	Mn	72	1	14.24	14.24	ppb	1.76	18000	
59	Co	72	1	0.54	0.54	ppb	5.12	3600	
60	Ni	72	1	1.44	1.44	ppb	4.79	3600	
63	Cu	72	1	1.25	1.25	ppb	1.28	3600	
66	Zn	72	1	6.62	6.62	ppb	1.34	3600	
75	As	72	1	1.76	1.76	ppb	2.28	3600	
78	Se	72	1	0.25	0.25	ppb	61.30	3600	
95	Mo	72	1	0.42	0.42	ppb	3.26	3600	
107	Ag	115	1	0.01	0.01	ppb	8.96	3600	
111	Cd	115	1	0.05	0.05	ppb	31.15	3600	
118	Sn	115	1	0.08	0.08	ppb	3.26	3600	
121	Sb	115	1	0.02	0.02	ppb	8.47	3600	
137	Ba	115	1	2.38	2.38	ppb	0.97	3600	
205	Tl	165	1	0.04	0.04	ppb	4.83	3600	
208	Pb	165	1	2.16	2.16	ppb	1.37	3600	
232	Th	165	1	1.34	1.34	ppb	1.71	1000	
238	U	165	1	0.36	0.36	ppb	1.31	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	360799	0.44	398260	90.6	30 - 120	
45	Sc	1	2168849	2.06	2300683	94.3	30 - 120	
72	Ge	1	1303052	1.70	1383338	94.2	30 - 120	
115	In	1	3848109	1.58	4023995	95.6	30 - 120	
165	Ho	1	7201558	1.81	7427449	97.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\189SMPL.D\189SMPL.D#
Date Acquired: Nov 16 2011 08:21 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-b-18-a
Misc Info:
Vial Number: 3512
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.12	0.12	ppb	50.67	3600	
51	V	72	1	8.09	8.09	ppb	2.43	3600	
52	Cr	72	1	4.62	4.62	ppb	0.97	3600	
55	Mn	72	1	22.07	22.07	ppb	2.50	18000	
59	Co	72	1	0.82	0.82	ppb	2.46	3600	
60	Ni	72	1	2.75	2.75	ppb	3.91	3600	
63	Cu	72	1	2.27	2.27	ppb	1.17	3600	
66	Zn	72	1	7.76	7.76	ppb	3.56	3600	
75	As	72	1	2.53	2.53	ppb	2.59	3600	
78	Se	72	1	0.23	0.23	ppb	109.07	3600	
95	Mo	72	1	0.64	0.64	ppb	2.81	3600	
107	Ag	115	1	0.01	0.01	ppb	19.75	3600	
111	Cd	115	1	0.13	0.13	ppb	2.35	3600	
118	Sn	115	1	0.13	0.13	ppb	13.49	3600	
121	Sb	115	1	0.02	0.02	ppb	8.96	3600	
137	Ba	115	1	4.34	4.34	ppb	2.94	3600	
205	Tl	165	1	0.05	0.05	ppb	2.33	3600	
208	Pb	165	1	4.02	4.02	ppb	2.15	3600	
232	Th	165	1	1.71	1.71	ppb	2.15	1000	
238	U	165	1	0.74	0.74	ppb	1.35	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	372630	2.58	398260	93.6	30 - 120	
45	Sc	1	2257023	2.79	2300683	98.1	30 - 120	
72	Ge	1	1347708	1.91	1383338	97.4	30 - 120	
115	In	1	3991034	1.90	4023995	99.2	30 - 120	
165	Ho	1	7436028	1.63	7427449	100.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\190_CCV.D\190_CCV.D#
Date Acquired: Nov 16 2011 08:24 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.37	ppb	2.32	50	102.7	90 - 110	
51	V	72	1	50.85	ppb	1.38	50	101.7	90 - 110	
52	Cr	72	1	51.54	ppb	0.65	50	103.1	90 - 110	
55	Mn	72	1	51.04	ppb	1.38	50	102.1	90 - 110	
59	Co	72	1	50.32	ppb	0.31	50	100.6	90 - 110	
60	Ni	72	1	49.66	ppb	1.58	50	99.3	90 - 110	
63	Cu	72	1	48.88	ppb	1.30	50	97.8	90 - 110	
66	Zn	72	1	50.15	ppb	1.37	50	100.3	90 - 110	
75	As	72	1	50.22	ppb	0.94	50	100.4	90 - 110	
78	Se	72	1	50.53	ppb	1.72	50	101.1	90 - 110	
95	Mo	72	1	49.92	ppb	1.04	50	99.8	90 - 110	
107	Ag	115	1	50.52	ppb	1.70	50	101.0	90 - 110	
111	Cd	115	1	49.89	ppb	2.44	50	99.8	90 - 110	
118	Sn	115	1	49.02	ppb	2.32	50	98.0	90 - 110	
121	Sb	115	1	48.09	ppb	2.51	50	96.2	90 - 110	
137	Ba	115	1	50.78	ppb	2.17	50	101.6	90 - 110	
205	Tl	165	1	51.64	ppb	1.59	50	103.3	90 - 110	
208	Pb	165	1	50.01	ppb	1.97	50	100.0	90 - 110	
232	Th	165	1	51.49	ppb	1.74	50	103.0	90 - 110	
238	U	165	1	51.14	ppb	2.85	50	102.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	372041	0.77	398260	93.4	30 - 120	
45	Sc	1	2242619	1.72	2300683	97.5	30 - 120	
72	Ge	1	1357677	1.00	1383338	98.1	30 - 120	
115	In	1	4010775	2.01	4023995	99.7	30 - 120	
165	Ho	1	7400583	1.60	7427449	99.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\191_CCB.D\191_CCB.D#
Date Acquired: Nov 16 2011 08:27 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.017	ppb	99.42	1.00	
51	V	72	1	0.021	ppb	12.14	1.00	
52	Cr	72	1	0.017	ppb	21.07	1.00	
55	Mn	72	1	-0.016	ppb	116.05	1.00	
59	Co	72	1	0.011	ppb	13.57	1.00	
60	Ni	72	1	0.011	ppb	142.69	1.00	
63	Cu	72	1	0.003	ppb	192.50	1.00	
66	Zn	72	1	0.010	ppb	58.42	1.00	
75	As	72	1	0.000	ppb	1246.50	1.00	
78	Se	72	1	-0.104	ppb	246.65	1.00	
95	Mo	72	1	0.004	ppb	141.64	1.00	
107	Ag	115	1	0.012	ppb	7.74	1.00	
111	Cd	115	1	0.011	ppb	11.18	1.00	
118	Sn	115	1	0.026	ppb	32.83	1.00	
121	Sb	115	1	0.016	ppb	23.17	1.00	
137	Ba	115	1	-0.008	ppb	35.24	1.00	
205	Tl	165	1	0.018	ppb	15.60	1.00	
208	Pb	165	1	0.011	ppb	11.39	1.00	
232	Th	165	1	0.034	ppb	4.44	1.00	
238	U	165	1	0.014	ppb	4.66	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	376063	1.15	398260	94.4	30 - 120	
45	Sc	1	2274182	0.96	2300683	98.8	30 - 120	
72	Ge	1	1373380	1.04	1383338	99.3	30 - 120	
115	In	1	4003412	1.04	4023995	99.5	30 - 120	
165	Ho	1	7495925	1.27	7427449	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\192WASH.D\192WASH.D#
Date Acquired:	Nov 16 2011 08:30 pm
Operator:	TEL
Sample Name:	LLICV-1131923
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.057	ppb	5.18	1.30	
51	V	72	1	5.147	ppb	1.75	6.50	
52	Cr	72	1	2.132	ppb	2.16	2.60	
55	Mn	72	1	1.016	ppb	2.24	1.30	
59	Co	72	1	1.036	ppb	1.67	1.30	
60	Ni	72	1	2.131	ppb	5.12	2.60	
63	Cu	72	1	2.011	ppb	3.65	2.60	
66	Zn	72	1	10.330	ppb	1.63	13.00	
75	As	72	1	5.232	ppb	0.71	6.50	
78	Se	72	1	4.940	ppb	12.82	6.50	
95	Mo	72	1	2.068	ppb	2.30	2.60	
107	Ag	115	1	5.236	ppb	1.70	6.50	
111	Cd	115	1	1.123	ppb	0.95	1.30	
118	Sn	115	1	10.450	ppb	1.04	13.00	
121	Sb	115	1	2.029	ppb	0.74	2.60	
137	Ba	115	1	1.073	ppb	2.06	1.30	
205	Tl	165	1	1.059	ppb	2.00	1.30	
208	Pb	165	1	1.031	ppb	2.10	1.30	
232	Th	165	1	2.087	ppb	0.74	2.60	
238	U	165	1	1.041	ppb	0.57	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	380953	1.42	398260	95.7	30 - 120	
45	Sc	1	2246074	1.12	2300683	97.6	30 - 120	
72	Ge	1	1368011	1.16	1383338	98.9	30 - 120	
115	In	1	3980195	1.37	4023995	98.9	30 - 120	
165	Ho	1	7363041	1.54	7427449	99.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\193_BLK.D\193_BLK.D#
Date Acquired:	Nov 16 2011 08:33 pm
Operator:	TEL
Sample Name:	mb 280-94442/1-a
Misc Info:	BLANK 94442 Soil/DoD4 6020
Vial Number:	4101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.017 ppb	99.71	2.00	
51	V	72	1	0.023 ppb	109.59	2.00	
52	Cr	72	1	0.325 ppb	3.77	2.00	
55	Mn	72	1	0.012 ppb	28.98	2.00	
59	Co	72	1	0.005 ppb	11.34	2.00	
60	Ni	72	1	0.082 ppb	8.46	2.00	
63	Cu	72	1	0.335 ppb	4.02	2.00	
66	Zn	72	1	0.433 ppb	5.27	2.00	
75	As	72	1	-0.001 ppb	360.32	2.00	
78	Se	72	1	-0.172 ppb	70.95	2.00	
95	Mo	72	1	0.008 ppb	24.56	2.00	
107	Ag	115	1	0.007 ppb	41.53	2.00	
111	Cd	115	1	0.000 ppb	22551.00	2.00	
118	Sn	115	1	0.045 ppb	14.16	2.00	
121	Sb	115	1	0.005 ppb	27.99	2.00	
137	Ba	115	1	0.078 ppb	12.32	2.00	
205	Tl	165	1	0.004 ppb	8.71	2.00	
208	Pb	165	1	0.023 ppb	3.62	2.00	
232	Th	165	1	0.011 ppb	7.72	2.00	
238	U	165	1	0.006 ppb	3.35	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	381650	0.50	398260	95.8	30 - 120	
45	Sc	1	2283201	0.66	2300683	99.2	30 - 120	
72	Ge	1	1380196	0.29	1383338	99.8	30 - 120	
115	In	1	4032015	0.61	4023995	100.2	30 - 120	
165	Ho	1	7499548	0.86	7427449	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\194_LCS.D\194_LCS.D#
Date Acquired:	Nov 16 2011 08:35 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-94442/2-a
Misc Info:	LCS
Vial Number:	4102
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	38.50	0.42	40	96.3	80 - 120	
51 V	72	1	37.60	0.34	40	94.0	80 - 120	
52 Cr	72	1	38.76	1.20	40	96.9	80 - 120	
55 Mn	72	1	37.74	0.95	40	94.4	80 - 120	
59 Co	72	1	38.95	1.12	40	97.4	80 - 120	
60 Ni	72	1	38.48	1.46	40	96.2	80 - 120	
63 Cu	72	1	38.15	0.59	40	95.4	80 - 120	
66 Zn	72	1	38.15	0.79	40	95.4	80 - 120	
75 As	72	1	37.74	0.81	40	94.4	80 - 120	
78 Se	72	1	38.58	1.38	40	96.5	80 - 120	
95 Mo	72	1	196.00	0.85	40	490.0	80 - 120	
107 Ag	115	1	38.30	3.18	40	95.8	80 - 120	
111 Cd	115	1	38.86	0.95	40	97.2	80 - 120	
118 Sn	115	1	375.50	0.84	40	938.8	80 - 120	
121 Sb	115	1	93.78	0.45	40	234.5	80 - 120	
137 Ba	115	1	38.92	0.47	40	97.3	80 - 120	
205 Tl	165	1	39.45	0.27	40	98.6	80 - 120	
208 Pb	165	1	38.04	0.77	40	95.1	80 - 120	
232 Th	165	1	39.37	0.94	40	98.4	80 - 120	
238 U	165	1	39.70	0.62	40	99.3	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	381776	0.54	398260	95.9	30 - 120	
45 Sc	1	2284862	1.25	2300683	99.3	30 - 120	
72 Ge	1	1349122	0.48	1383338	97.5	30 - 120	
115 In	1	4008296	0.40	4023995	99.6	30 - 120	
165 Ho	1	7448089	0.19	7427449	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\195SMPL.D\195SMPL.D#
Date Acquired:	Nov 16 2011 08:38 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-5-a
Misc Info:	
Vial Number:	4103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.65	0.65	ppb	15.98	3600	
51	V	72	1	61.72	61.72	ppb	0.22	3600	
52	Cr	72	1	36.91	36.91	ppb	0.38	3600	
55	Mn	72	1	617.20	617.20	ppb	0.56	18000	
59	Co	72	1	15.57	15.57	ppb	0.72	3600	
60	Ni	72	1	45.15	45.15	ppb	0.70	3600	
63	Cu	72	1	37.52	37.52	ppb	0.27	3600	
66	Zn	72	1	117.00	117.00	ppb	0.41	3600	
75	As	72	1	13.78	13.78	ppb	1.46	3600	
78	Se	72	1	1.69	1.69	ppb	8.41	3600	
95	Mo	72	1	1.24	1.24	ppb	2.43	3600	
107	Ag	115	1	0.18	0.18	ppb	3.26	3600	
111	Cd	115	1	0.77	0.77	ppb	2.61	3600	
118	Sn	115	1	0.44	0.44	ppb	6.65	3600	
121	Sb	115	1	0.08	0.08	ppb	8.98	3600	
137	Ba	115	1	336.90	336.90	ppb	1.15	3600	
205	Tl	165	1	0.19	0.19	ppb	1.31	3600	
208	Pb	165	1	17.26	17.26	ppb	0.80	3600	
232	Th	165	1	6.57	6.57	ppb	1.58	1000	
238	U	165	1	1.13	1.13	ppb	0.25	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	366179	1.15	398260	91.9	30 - 120	
45	Sc	1	2235130	0.42	2300683	97.2	30 - 120	
72	Ge	1	1293093	0.49	1383338	93.5	30 - 120	
115	In	1	3759684	0.74	4023995	93.4	30 - 120	
165	Ho	1	7144475	0.55	7427449	96.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\196SMPL.D\196SMPL.D#
Date Acquired:	Nov 16 2011 08:41 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-6-a
Misc Info:	
Vial Number:	4104
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.64	0.64	ppb	21.36	3600	
51	V	72	1	62.59	62.59	ppb	2.60	3600	
52	Cr	72	1	36.45	36.45	ppb	1.71	3600	
55	Mn	72	1	580.90	580.90	ppb	1.92	18000	
59	Co	72	1	15.80	15.80	ppb	1.96	3600	
60	Ni	72	1	45.58	45.58	ppb	2.09	3600	
63	Cu	72	1	37.41	37.41	ppb	2.25	3600	
66	Zn	72	1	114.00	114.00	ppb	2.30	3600	
75	As	72	1	14.42	14.42	ppb	2.72	3600	
78	Se	72	1	1.69	1.69	ppb	8.55	3600	
95	Mo	72	1	1.16	1.16	ppb	4.28	3600	
107	Ag	115	1	0.17	0.17	ppb	6.28	3600	
111	Cd	115	1	0.72	0.72	ppb	7.57	3600	
118	Sn	115	1	0.33	0.33	ppb	5.49	3600	
121	Sb	115	1	0.07	0.07	ppb	11.83	3600	
137	Ba	115	1	336.90	336.90	ppb	1.51	3600	
205	Tl	165	1	0.16	0.16	ppb	1.74	3600	
208	Pb	165	1	16.88	16.88	ppb	0.73	3600	
232	Th	165	1	6.57	6.57	ppb	1.19	1000	
238	U	165	1	1.00	1.00	ppb	0.94	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	363198	1.47	398260	91.2	30 - 120	
45	Sc	1	2188685	0.69	2300683	95.1	30 - 120	
72	Ge	1	1293047	2.09	1383338	93.5	30 - 120	
115	In	1	3769630	0.64	4023995	93.7	30 - 120	
165	Ho	1	7245194	0.77	7427449	97.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\197SMPL.D\197SMPL.D#
Date Acquired:	Nov 16 2011 08:44 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-7-a
Misc Info:	
Vial Number:	4105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.27	0.27	ppb	30.58	3600	
51	V	72	1	30.57	30.57	ppb	2.19	3600	
52	Cr	72	1	18.81	18.81	ppb	1.85	3600	
55	Mn	72	1	246.30	246.30	ppb	2.15	18000	
59	Co	72	1	9.21	9.21	ppb	2.16	3600	
60	Ni	72	1	23.71	23.71	ppb	3.60	3600	
63	Cu	72	1	13.66	13.66	ppb	2.66	3600	
66	Zn	72	1	46.59	46.59	ppb	1.82	3600	
75	As	72	1	6.19	6.19	ppb	3.84	3600	
78	Se	72	1	0.71	0.71	ppb	44.33	3600	
95	Mo	72	1	1.19	1.19	ppb	4.26	3600	
107	Ag	115	1	0.05	0.05	ppb	3.65	3600	
111	Cd	115	1	0.32	0.32	ppb	10.29	3600	
118	Sn	115	1	0.22	0.22	ppb	5.60	3600	
121	Sb	115	1	0.06	0.06	ppb	5.26	3600	
137	Ba	115	1	124.60	124.60	ppb	2.51	3600	
205	Tl	165	1	0.08	0.08	ppb	1.02	3600	
208	Pb	165	1	5.53	5.53	ppb	3.10	3600	
232	Th	165	1	3.01	3.01	ppb	2.14	1000	
238	U	165	1	0.47	0.47	ppb	2.92	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	369239	1.42	398260	92.7	30 - 120	
45	Sc	1	2235195	2.75	2300683	97.2	30 - 120	
72	Ge	1	1312884	2.12	1383338	94.9	30 - 120	
115	In	1	3853295	2.61	4023995	95.8	30 - 120	
165	Ho	1	7281098	2.74	7427449	98.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\198SMPL.D\198SMPL.D#
Date Acquired:	Nov 16 2011 08:47 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-8-a
Misc Info:	
Vial Number:	4106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	34.97	3600	
51	V	72	1	42.79	42.79	ppb	0.38	3600	
52	Cr	72	1	22.49	22.49	ppb	0.78	3600	
55	Mn	72	1	532.30	532.30	ppb	1.58	18000	
59	Co	72	1	11.48	11.48	ppb	1.13	3600	
60	Ni	72	1	31.37	31.37	ppb	1.46	3600	
63	Cu	72	1	14.64	14.64	ppb	0.66	3600	
66	Zn	72	1	62.66	62.66	ppb	0.37	3600	
75	As	72	1	8.26	8.26	ppb	1.00	3600	
78	Se	72	1	0.92	0.92	ppb	18.86	3600	
95	Mo	72	1	0.51	0.51	ppb	12.20	3600	
107	Ag	115	1	0.05	0.05	ppb	9.83	3600	
111	Cd	115	1	0.37	0.37	ppb	1.69	3600	
118	Sn	115	1	0.21	0.21	ppb	4.70	3600	
121	Sb	115	1	0.06	0.06	ppb	1.60	3600	
137	Ba	115	1	147.20	147.20	ppb	0.52	3600	
205	Tl	165	1	0.09	0.09	ppb	1.50	3600	
208	Pb	165	1	7.15	7.15	ppb	0.62	3600	
232	Th	165	1	3.42	3.42	ppb	0.68	1000	
238	U	165	1	0.53	0.53	ppb	1.48	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	362161	0.85	398260	90.9	30 - 120	
45	Sc	1	2201411	1.05	2300683	95.7	30 - 120	
72	Ge	1	1292429	0.89	1383338	93.4	30 - 120	
115	In	1	3805892	0.30	4023995	94.6	30 - 120	
165	Ho	1	7231658	0.41	7427449	97.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\199AREF.D\199AREF.D#
Date Acquired: Nov 16 2011 08:50 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-a-9-a
Misc Info:
Vial Number: 4107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	25.75	3600	
51	V	72	1	40.21	40.21	ppb	0.26	3600	
52	Cr	72	1	21.52	21.52	ppb	1.04	3600	
55	Mn	72	1	407.20	407.20	ppb	0.25	18000	
59	Co	72	1	11.20	11.20	ppb	0.65	3600	
60	Ni	72	1	29.11	29.11	ppb	0.99	3600	
63	Cu	72	1	13.31	13.31	ppb	0.22	3600	
66	Zn	72	1	56.63	56.63	ppb	0.54	3600	
75	As	72	1	7.64	7.64	ppb	1.30	3600	
78	Se	72	1	0.37	0.37	ppb	61.08	3600	
95	Mo	72	1	0.53	0.53	ppb	2.15	3600	
107	Ag	115	1	0.06	0.06	ppb	3.70	3600	
111	Cd	115	1	0.37	0.37	ppb	16.08	3600	
118	Sn	115	1	0.26	0.26	ppb	11.39	3600	
121	Sb	115	1	0.06	0.06	ppb	7.72	3600	
137	Ba	115	1	178.70	178.70	ppb	0.67	3600	
205	Tl	165	1	0.09	0.09	ppb	2.71	3600	
208	Pb	165	1	6.61	6.61	ppb	0.62	3600	
232	Th	165	1	3.26	3.26	ppb	0.31	1000	
238	U	165	1	0.50	0.50	ppb	2.00	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	363355	1.29	398260	91.2	30 - 120	
45	Sc	1	2191553	0.82	2300683	95.3	30 - 120	
72	Ge	1	1284368	0.58	1383338	92.8	30 - 120	
115	In	1	3773215	0.97	4023995	93.8	30 - 120	
165	Ho	1	7151990	0.71	7427449	96.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\200SDIL.D\200SDIL.D#
Date Acquired:	Nov 16 2011 08:53 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-9-a SD@5
Misc Info:	SERIAL DILUTION
Vial Number:	4108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SDIL
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\199AREF.D\199AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.11	ppb	39.62	0.07	171.0	90 - 110	
51	V	72	1	8.15	ppb	0.16	8.04	101.3	90 - 110	
52	Cr	72	1	4.38	ppb	1.46	4.30	101.7	90 - 110	
55	Mn	72	1	85.56	ppb	1.13	81.44	105.1	90 - 110	
59	Co	72	1	2.28	ppb	0.69	2.24	101.6	90 - 110	
60	Ni	72	1	5.96	ppb	1.46	5.82	102.3	90 - 110	
63	Cu	72	1	2.74	ppb	0.20	2.66	103.0	90 - 110	
66	Zn	72	1	11.94	ppb	0.07	11.33	105.4	90 - 110	
75	As	72	1	1.59	ppb	2.20	1.53	104.3	90 - 110	
78	Se	72	1	-0.02	ppb	1066.30	0.07	-29.6	90 - 110	
95	Mo	72	1	0.09	ppb	6.21	0.11	82.7	90 - 110	
107	Ag	115	1	0.01	ppb	21.64	0.01	119.4	90 - 110	
111	Cd	115	1	0.05	ppb	2.79	0.07	68.3	90 - 110	
118	Sn	115	1	0.13	ppb	5.23	0.05	239.2	90 - 110	
121	Sb	115	1	0.01	ppb	23.34	0.01	109.3	90 - 110	
137	Ba	115	1	35.94	ppb	0.76	35.74	100.6	90 - 110	
205	Tl	165	1	0.02	ppb	5.46	0.02	112.2	90 - 110	
208	Pb	165	1	1.40	ppb	1.42	1.32	105.8	90 - 110	
232	Th	165	1	0.68	ppb	1.38	0.65	103.5	90 - 110	
238	U	165	1	0.11	ppb	0.88	0.10	107.5	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	366810	0.14	398260	92.1	30 - 120	
45	Sc	1	2206643	1.61	2300683	95.9	30 - 120	
72	Ge	1	1325398	0.67	1383338	95.8	30 - 120	
115	In	1	3899236	0.26	4023995	96.9	30 - 120	
165	Ho	1	7208953	0.97	7427449	97.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\201_CCV.D\201_CCV.D#
Date Acquired: Nov 16 2011 08:56 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.35	ppb	1.91	50	102.7	90 - 110	
51	V	72	1	51.33	ppb	1.12	50	102.7	90 - 110	
52	Cr	72	1	51.11	ppb	1.00	50	102.2	90 - 110	
55	Mn	72	1	50.16	ppb	0.95	50	100.3	90 - 110	
59	Co	72	1	50.55	ppb	1.42	50	101.1	90 - 110	
60	Ni	72	1	49.91	ppb	1.58	50	99.8	90 - 110	
63	Cu	72	1	48.63	ppb	0.98	50	97.3	90 - 110	
66	Zn	72	1	49.85	ppb	1.59	50	99.7	90 - 110	
75	As	72	1	50.35	ppb	1.37	50	100.7	90 - 110	
78	Se	72	1	50.42	ppb	3.30	50	100.8	90 - 110	
95	Mo	72	1	49.51	ppb	0.44	50	99.0	90 - 110	
107	Ag	115	1	50.98	ppb	0.75	50	102.0	90 - 110	
111	Cd	115	1	49.89	ppb	0.48	50	99.8	90 - 110	
118	Sn	115	1	48.51	ppb	1.28	50	97.0	90 - 110	
121	Sb	115	1	47.84	ppb	0.73	50	95.7	90 - 110	
137	Ba	115	1	50.49	ppb	0.54	50	101.0	90 - 110	
205	Tl	165	1	51.19	ppb	1.20	50	102.4	90 - 110	
208	Pb	165	1	49.66	ppb	0.94	50	99.3	90 - 110	
232	Th	165	1	51.01	ppb	0.93	50	102.0	90 - 110	
238	U	165	1	51.35	ppb	1.12	50	102.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	373217	0.19	398260	93.7	30 - 120	
45	Sc	1	2219318	0.91	2300683	96.5	30 - 120	
72	Ge	1	1333064	1.01	1383338	96.4	30 - 120	
115	In	1	3945509	0.24	4023995	98.0	30 - 120	
165	Ho	1	7255070	0.71	7427449	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\202_CCB.D\202_CCB.D#
Date Acquired: Nov 16 2011 08:59 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.018	ppb	173.23	1.00	
51	V	72	1	0.018	ppb	11.93	1.00	
52	Cr	72	1	0.018	ppb	25.09	1.00	
55	Mn	72	1	-0.013	ppb	76.47	1.00	
59	Co	72	1	0.011	ppb	15.44	1.00	
60	Ni	72	1	0.005	ppb	180.67	1.00	
63	Cu	72	1	0.002	ppb	346.37	1.00	
66	Zn	72	1	0.019	ppb	68.82	1.00	
75	As	72	1	0.007	ppb	88.36	1.00	
78	Se	72	1	0.054	ppb	618.27	1.00	
95	Mo	72	1	0.001	ppb	167.12	1.00	
107	Ag	115	1	0.009	ppb	50.01	1.00	
111	Cd	115	1	0.010	ppb	21.23	1.00	
118	Sn	115	1	0.041	ppb	7.73	1.00	
121	Sb	115	1	0.017	ppb	6.96	1.00	
137	Ba	115	1	-0.001	ppb	263.45	1.00	
205	Tl	165	1	0.017	ppb	8.01	1.00	
208	Pb	165	1	0.011	ppb	8.90	1.00	
232	Th	165	1	0.025	ppb	9.67	1.00	
238	U	165	1	0.013	ppb	4.61	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	372065	1.39	398260	93.4	30 - 120	
45	Sc	1	2238547	0.93	2300683	97.3	30 - 120	
72	Ge	1	1341086	0.62	1383338	96.9	30 - 120	
115	In	1	3958379	0.92	4023995	98.4	30 - 120	
165	Ho	1	7281539	0.80	7427449	98.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\203PDS.D\203PDS.D#
Date Acquired: Nov 16 2011 09:02 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-a-9-a PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 4109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	204.30	0.33	ppb	0.60	200	102.0	75 - 125	
51 V	72	1	231.00	40.21	ppb	2.00	200	96.2	75 - 125	
52 Cr	72	1	216.60	21.52	ppb	1.31	200	97.8	75 - 125	
55 Mn	72	1	577.10	407.20	ppb	2.09	200	95.0	75 - 125	
59 Co	72	1	201.30	11.20	ppb	2.24	200	95.3	75 - 125	
60 Ni	72	1	226.90	29.11	ppb	1.77	200	99.0	75 - 125	
63 Cu	72	1	202.20	13.31	ppb	1.85	200	94.8	75 - 125	
66 Zn	72	1	244.00	56.63	ppb	1.42	200	95.1	75 - 125	
75 As	72	1	204.30	7.64	ppb	1.28	200	98.4	75 - 125	
78 Se	72	1	196.60	0.37	ppb	0.91	200	98.1	75 - 125	
95 Mo	72	1	205.60	0.53	ppb	1.14	200	102.5	75 - 125	
107 Ag	115	1	50.05	0.06	ppb	0.33	50	100.0	75 - 125	
111 Cd	115	1	204.10	0.37	ppb	0.20	200	101.9	75 - 125	
118 Sn	115	1	204.50	0.26	ppb	0.93	200	102.1	75 - 125	
121 Sb	115	1	198.80	0.06	ppb	0.22	200	99.4	75 - 125	
137 Ba	115	1	390.40	178.70	ppb	1.54	200	103.1	75 - 125	
205 Tl	165	1	197.20	0.09	ppb	0.12	200	98.6	75 - 125	
208 Pb	165	1	200.00	6.61	ppb	0.65	200	96.8	75 - 125	
232 Th	165	1	3.20	3.26	ppb	1.27	200	1.6	75 - 125	
238 U	165	1	200.30	0.50	ppb	1.00	200	99.9	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	365163	1.03	398260	91.7	30 - 120	
45 Sc	1	2193993	0.78	2300683	95.4	30 - 120	
72 Ge	1	1300038	1.47	1383338	94.0	30 - 120	
115 In	1	3775372	0.37	4023995	93.8	30 - 120	
165 Ho	1	7173277	0.51	7427449	96.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\204_MS.D\204_MS.D#		
Date Acquired:	Nov 16 2011 09:05 pm	**QC Summary:**	
Acq. Method:	NormISIS.M	**Analytes:**	**Pass**
Operator:	TEL	**ISTD:**	**Pass**
Sample Name:	280-22230-a-9-b ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	4110		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 07:29 pm		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	36.81	0.33	ppb	1.43	40	91.3	50 - 150	
51 V	72	1	87.04	40.21	ppb	0.71	40	108.5	50 - 150	
52 Cr	72	1	61.55	21.52	ppb	0.99	40	100.0	50 - 150	
55 Mn	72	1	425.40	407.20	ppb	0.97	40	95.1	50 - 150	
59 Co	72	1	46.84	11.20	ppb	0.69	40	91.5	50 - 150	
60 Ni	72	1	62.07	29.11	ppb	0.31	40	89.8	50 - 150	
63 Cu	72	1	46.00	13.31	ppb	0.34	40	86.3	50 - 150	
66 Zn	72	1	86.36	56.63	ppb	0.90	40	89.4	50 - 150	
75 As	72	1	42.75	7.64	ppb	1.01	40	89.7	50 - 150	
78 Se	72	1	35.50	0.37	ppb	0.49	40	87.9	50 - 150	
95 Mo	72	1	186.80	0.53	ppb	0.92	40	460.8	50 - 150	
107 Ag	115	1	35.16	0.06	ppb	0.95	40	87.8	50 - 150	
111 Cd	115	1	37.90	0.37	ppb	1.42	40	93.9	50 - 150	
118 Sn	115	1	332.10	0.26	ppb	1.61	40	824.8	50 - 150	
121 Sb	115	1	57.84	0.06	ppb	0.88	40	144.4	50 - 150	
137 Ba	115	1	227.60	178.70	ppb	1.76	40	104.1	50 - 150	
205 Tl	165	1	37.18	0.09	ppb	1.74	40	92.7	50 - 150	
208 Pb	165	1	41.86	6.61	ppb	1.04	40	89.8	50 - 150	
232 Th	165	1	41.04	3.26	ppb	1.14	40	94.9	50 - 150	
238 U	165	1	38.22	0.50	ppb	0.40	40	94.4	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	359816	1.01	398260	90.3	30 - 120	
45 Sc	1	2171550	1.41	2300683	94.4	30 - 120	
72 Ge	1	1269458	0.87	1383338	91.8	30 - 120	
115 In	1	3761042	0.41	4023995	93.5	30 - 120	
165 Ho	1	7082950	1.17	7427449	95.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\205_MSD.D\205_MSD.D#
Date Acquired: Nov 16 2011 09:07 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-a-9-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 4111
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\204_MS.D\204_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	38.57	ppb	2.40	36.81	4.67	20	
51	V	72	1	88.89	ppb	1.03	87.04	2.10	20	
52	Cr	72	1	63.70	ppb	2.18	61.55	3.43	20	
55	Mn	72	1	440.10	ppb	0.96	425.40	3.40	20	
59	Co	72	1	48.67	ppb	0.21	46.84	3.83	20	
60	Ni	72	1	65.39	ppb	0.51	62.07	5.21	20	
63	Cu	72	1	47.79	ppb	0.68	46.00	3.82	20	
66	Zn	72	1	91.50	ppb	1.00	86.36	5.78	20	
75	As	72	1	44.01	ppb	1.02	42.75	2.90	20	
78	Se	72	1	37.96	ppb	4.97	35.50	6.70	20	
95	Mo	72	1	190.10	ppb	2.40	186.80	1.75	20	
107	Ag	115	1	36.19	ppb	1.69	35.16	2.89	20	
111	Cd	115	1	38.70	ppb	1.85	37.90	2.09	20	
118	Sn	115	1	336.70	ppb	0.34	332.10	1.38	20	
121	Sb	115	1	57.71	ppb	0.87	57.84	0.23	20	
137	Ba	115	1	248.50	ppb	1.24	227.60	8.78	20	
205	Tl	165	1	38.20	ppb	1.29	37.18	2.71	20	
208	Pb	165	1	43.07	ppb	1.00	41.86	2.85	20	
232	Th	165	1	42.75	ppb	0.76	41.04	4.08	20	
238	U	165	1	39.08	ppb	1.29	38.22	2.23	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	352797	0.95	398260	88.6	30 - 120	
45	Sc	1	2181589	0.19	2300683	94.8	30 - 120	
72	Ge	1	1271015	0.76	1383338	91.9	30 - 120	
115	In	1	3738587	1.41	4023995	92.9	30 - 120	
165	Ho	1	7142335	0.86	7427449	96.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\206SMPL.D\206SMPL.D#
Date Acquired:	Nov 16 2011 09:10 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-10-a
Misc Info:	
Vial Number:	4112
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	30.44	3600	
51	V	72	1	30.45	30.45	ppb	0.70	3600	
52	Cr	72	1	19.14	19.14	ppb	0.61	3600	
55	Mn	72	1	288.10	288.10	ppb	0.86	18000	
59	Co	72	1	9.65	9.65	ppb	0.86	3600	
60	Ni	72	1	26.34	26.34	ppb	1.85	3600	
63	Cu	72	1	10.89	10.89	ppb	0.14	3600	
66	Zn	72	1	44.98	44.98	ppb	0.28	3600	
75	As	72	1	5.55	5.55	ppb	1.78	3600	
78	Se	72	1	0.82	0.82	ppb	18.53	3600	
95	Mo	72	1	0.53	0.53	ppb	3.08	3600	
107	Ag	115	1	0.05	0.05	ppb	4.95	3600	
111	Cd	115	1	0.26	0.26	ppb	3.57	3600	
118	Sn	115	1	0.39	0.39	ppb	10.22	3600	
121	Sb	115	1	0.08	0.08	ppb	4.18	3600	
137	Ba	115	1	117.30	117.30	ppb	0.98	3600	
205	Tl	165	1	0.10	0.10	ppb	1.14	3600	
208	Pb	165	1	5.30	5.30	ppb	0.48	3600	
232	Th	165	1	2.66	2.66	ppb	0.81	1000	
238	U	165	1	0.42	0.42	ppb	0.57	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	365419	0.86	398260	91.8	30 - 120	
45	Sc	1	2189305	1.20	2300683	95.2	30 - 120	
72	Ge	1	1296418	0.38	1383338	93.7	30 - 120	
115	In	1	3813751	0.62	4023995	94.8	30 - 120	
165	Ho	1	7301068	0.75	7427449	98.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\207SMPL.D\207SMPL.D#
Date Acquired:	Nov 16 2011 09:13 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-11-a
Misc Info:	
Vial Number:	4201
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.29	0.29	ppb	5.97	3600	
51	V	72	1	33.82	33.82	ppb	0.22	3600	
52	Cr	72	1	17.29	17.29	ppb	0.87	3600	
55	Mn	72	1	290.60	290.60	ppb	0.76	18000	
59	Co	72	1	9.67	9.67	ppb	0.70	3600	
60	Ni	72	1	25.83	25.83	ppb	0.51	3600	
63	Cu	72	1	11.33	11.33	ppb	1.65	3600	
66	Zn	72	1	45.81	45.81	ppb	1.61	3600	
75	As	72	1	4.61	4.61	ppb	1.25	3600	
78	Se	72	1	0.48	0.48	ppb	60.83	3600	
95	Mo	72	1	0.37	0.37	ppb	5.15	3600	
107	Ag	115	1	0.04	0.04	ppb	5.27	3600	
111	Cd	115	1	0.35	0.35	ppb	4.98	3600	
118	Sn	115	1	0.24	0.24	ppb	4.05	3600	
121	Sb	115	1	0.07	0.07	ppb	1.71	3600	
137	Ba	115	1	165.20	165.20	ppb	1.15	3600	
205	Tl	165	1	0.09	0.09	ppb	0.76	3600	
208	Pb	165	1	5.26	5.26	ppb	1.01	3600	
232	Th	165	1	2.87	2.87	ppb	1.48	1000	
238	U	165	1	0.42	0.42	ppb	1.44	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	363903	0.48	398260	91.4	30 - 120	
45	Sc	1	2184480	0.52	2300683	94.9	30 - 120	
72	Ge	1	1302778	1.24	1383338	94.2	30 - 120	
115	In	1	3797285	1.16	4023995	94.4	30 - 120	
165	Ho	1	7176211	0.90	7427449	96.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\208SMPL.D\208SMPL.D#
Date Acquired:	Nov 16 2011 09:16 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-12-a
Misc Info:	
Vial Number:	4202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.34	0.34	ppb	41.49	3600	
51	V	72	1	41.65	41.65	ppb	1.04	3600	
52	Cr	72	1	25.17	25.17	ppb	0.65	3600	
55	Mn	72	1	364.60	364.60	ppb	1.32	18000	
59	Co	72	1	11.26	11.26	ppb	0.39	3600	
60	Ni	72	1	29.48	29.48	ppb	0.85	3600	
63	Cu	72	1	17.27	17.27	ppb	0.18	3600	
66	Zn	72	1	50.75	50.75	ppb	0.66	3600	
75	As	72	1	7.76	7.76	ppb	1.72	3600	
78	Se	72	1	1.13	1.13	ppb	11.30	3600	
95	Mo	72	1	0.87	0.87	ppb	5.06	3600	
107	Ag	115	1	0.07	0.07	ppb	3.33	3600	
111	Cd	115	1	0.32	0.32	ppb	13.12	3600	
118	Sn	115	1	0.32	0.32	ppb	6.84	3600	
121	Sb	115	1	0.06	0.06	ppb	5.62	3600	
137	Ba	115	1	183.90	183.90	ppb	2.19	3600	
205	Tl	165	1	0.09	0.09	ppb	2.31	3600	
208	Pb	165	1	6.33	6.33	ppb	0.44	3600	
232	Th	165	1	3.52	3.52	ppb	2.22	1000	
238	U	165	1	0.52	0.52	ppb	0.74	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	360368	0.76	398260	90.5	30 - 120	
45	Sc	1	2178276	0.95	2300683	94.7	30 - 120	
72	Ge	1	1289492	0.59	1383338	93.2	30 - 120	
115	In	1	3794356	1.98	4023995	94.3	30 - 120	
165	Ho	1	7139170	0.81	7427449	96.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\209SMPL.D\209SMPL.D#
Date Acquired:	Nov 16 2011 09:19 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-13-a
Misc Info:	
Vial Number:	4203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.51	0.51	ppb	9.28	3600	
51	V	72	1	67.63	67.63	ppb	1.33	3600	
52	Cr	72	1	40.03	40.03	ppb	0.27	3600	
55	Mn	72	1	702.50	702.50	ppb	0.69	18000	
59	Co	72	1	17.36	17.36	ppb	0.65	3600	
60	Ni	72	1	49.36	49.36	ppb	1.20	3600	
63	Cu	72	1	41.61	41.61	ppb	0.91	3600	
66	Zn	72	1	121.70	121.70	ppb	0.56	3600	
75	As	72	1	14.13	14.13	ppb	0.71	3600	
78	Se	72	1	1.66	1.66	ppb	4.81	3600	
95	Mo	72	1	1.19	1.19	ppb	1.22	3600	
107	Ag	115	1	0.18	0.18	ppb	5.59	3600	
111	Cd	115	1	0.78	0.78	ppb	5.69	3600	
118	Sn	115	1	0.28	0.28	ppb	10.46	3600	
121	Sb	115	1	0.08	0.08	ppb	10.26	3600	
137	Ba	115	1	356.30	356.30	ppb	1.94	3600	
205	Tl	165	1	0.17	0.17	ppb	0.77	3600	
208	Pb	165	1	12.26	12.26	ppb	0.99	3600	
232	Th	165	1	6.93	6.93	ppb	1.46	1000	
238	U	165	1	1.28	1.28	ppb	1.23	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	347122	0.55	398260	87.2	30 - 120	
45	Sc	1	2145142	1.32	2300683	93.2	30 - 120	
72	Ge	1	1241697	0.79	1383338	89.8	30 - 120	
115	In	1	3663670	0.45	4023995	91.0	30 - 120	
165	Ho	1	6931687	0.82	7427449	93.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\210SMPL.D\210SMPL.D#
Date Acquired:	Nov 16 2011 09:22 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-14-a
Misc Info:	
Vial Number:	4204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.41	0.41	ppb	10.81	3600	
51	V	72	1	54.74	54.74	ppb	1.14	3600	
52	Cr	72	1	29.55	29.55	ppb	0.50	3600	
55	Mn	72	1	476.70	476.70	ppb	0.37	18000	
59	Co	72	1	13.91	13.91	ppb	0.41	3600	
60	Ni	72	1	41.46	41.46	ppb	0.51	3600	
63	Cu	72	1	23.39	23.39	ppb	0.72	3600	
66	Zn	72	1	78.38	78.38	ppb	0.74	3600	
75	As	72	1	9.73	9.73	ppb	2.35	3600	
78	Se	72	1	1.23	1.23	ppb	27.75	3600	
95	Mo	72	1	0.80	0.80	ppb	4.53	3600	
107	Ag	115	1	0.10	0.10	ppb	11.29	3600	
111	Cd	115	1	0.50	0.50	ppb	9.09	3600	
118	Sn	115	1	0.30	0.30	ppb	2.61	3600	
121	Sb	115	1	0.06	0.06	ppb	6.84	3600	
137	Ba	115	1	191.10	191.10	ppb	0.09	3600	
205	Tl	165	1	0.10	0.10	ppb	6.40	3600	
208	Pb	165	1	7.78	7.78	ppb	1.30	3600	
232	Th	165	1	4.35	4.35	ppb	1.80	1000	
238	U	165	1	0.68	0.68	ppb	1.43	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	353095	1.42	398260	88.7	30 - 120	
45	Sc	1	2148500	0.72	2300683	93.4	30 - 120	
72	Ge	1	1274009	0.57	1383338	92.1	30 - 120	
115	In	1	3740462	0.54	4023995	93.0	30 - 120	
165	Ho	1	7092746	1.03	7427449	95.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\211_CCV.D\211_CCV.D#
Date Acquired:	Nov 16 2011 09:25 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.25	ppb	3.26	50	104.5	90 - 110	
51	V	72	1	51.23	ppb	2.00	50	102.5	90 - 110	
52	Cr	72	1	52.02	ppb	1.01	50	104.0	90 - 110	
55	Mn	72	1	50.57	ppb	1.33	50	101.1	90 - 110	
59	Co	72	1	51.11	ppb	0.58	50	102.2	90 - 110	
60	Ni	72	1	50.48	ppb	0.54	50	101.0	90 - 110	
63	Cu	72	1	49.47	ppb	0.40	50	98.9	90 - 110	
66	Zn	72	1	50.41	ppb	0.77	50	100.8	90 - 110	
75	As	72	1	50.83	ppb	0.60	50	101.7	90 - 110	
78	Se	72	1	50.02	ppb	3.37	50	100.0	90 - 110	
95	Mo	72	1	50.27	ppb	1.08	50	100.5	90 - 110	
107	Ag	115	1	51.70	ppb	1.05	50	103.4	90 - 110	
111	Cd	115	1	50.44	ppb	1.22	50	100.9	90 - 110	
118	Sn	115	1	49.27	ppb	0.87	50	98.5	90 - 110	
121	Sb	115	1	48.32	ppb	0.28	50	96.6	90 - 110	
137	Ba	115	1	51.28	ppb	1.03	50	102.6	90 - 110	
205	Tl	165	1	52.42	ppb	0.83	50	104.8	90 - 110	
208	Pb	165	1	50.86	ppb	0.81	50	101.7	90 - 110	
232	Th	165	1	52.21	ppb	0.73	50	104.4	90 - 110	
238	U	165	1	51.47	ppb	1.24	50	102.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	362912	1.65	398260	91.1	30 - 120	
45	Sc	1	2181365	1.61	2300683	94.8	30 - 120	
72	Ge	1	1320539	0.32	1383338	95.5	30 - 120	
115	In	1	3921772	0.62	4023995	97.5	30 - 120	
165	Ho	1	7236905	0.96	7427449	97.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\212_CCB.D\212_CCB.D#
Date Acquired:	Nov 16 2011 09:28 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.017	ppb	173.24	1.00	
51	V	72	1	0.029	ppb	36.08	1.00	
52	Cr	72	1	0.005	ppb	276.77	1.00	
55	Mn	72	1	-0.013	ppb	60.10	1.00	
59	Co	72	1	0.008	ppb	15.51	1.00	
60	Ni	72	1	0.022	ppb	45.11	1.00	
63	Cu	72	1	0.008	ppb	16.35	1.00	
66	Zn	72	1	0.051	ppb	19.42	1.00	
75	As	72	1	0.007	ppb	103.64	1.00	
78	Se	72	1	0.032	ppb	740.11	1.00	
95	Mo	72	1	-0.001	ppb	247.70	1.00	
107	Ag	115	1	0.009	ppb	42.38	1.00	
111	Cd	115	1	0.004	ppb	66.66	1.00	
118	Sn	115	1	0.040	ppb	8.91	1.00	
121	Sb	115	1	0.012	ppb	4.47	1.00	
137	Ba	115	1	0.015	ppb	57.47	1.00	
205	Tl	165	1	0.010	ppb	12.25	1.00	
208	Pb	165	1	0.007	ppb	2.74	1.00	
232	Th	165	1	0.013	ppb	3.67	1.00	
238	U	165	1	0.009	ppb	6.91	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	371139	0.48	398260	93.2	30 - 120	
45	Sc	1	2246105	2.24	2300683	97.6	30 - 120	
72	Ge	1	1351343	1.24	1383338	97.7	30 - 120	
115	In	1	3984880	0.75	4023995	99.0	30 - 120	
165	Ho	1	7285111	0.99	7427449	98.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\213SMPL.D\213SMPL.D#
Date Acquired: Nov 16 2011 09:31 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-a-15-a
Misc Info:
Vial Number: 4205
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	9.14	3600	
51	V	72	1	37.83	37.83	ppb	1.51	3600	
52	Cr	72	1	22.52	22.52	ppb	1.23	3600	
55	Mn	72	1	1,069.00	1069.00	ppb	1.61	18000	
59	Co	72	1	12.31	12.31	ppb	0.43	3600	
60	Ni	72	1	30.32	30.32	ppb	1.46	3600	
63	Cu	72	1	12.57	12.57	ppb	0.74	3600	
66	Zn	72	1	56.40	56.40	ppb	1.64	3600	
75	As	72	1	7.47	7.47	ppb	1.81	3600	
78	Se	72	1	1.07	1.07	ppb	29.80	3600	
95	Mo	72	1	0.83	0.83	ppb	4.56	3600	
107	Ag	115	1	0.06	0.06	ppb	19.27	3600	
111	Cd	115	1	0.40	0.40	ppb	3.92	3600	
118	Sn	115	1	0.23	0.23	ppb	7.08	3600	
121	Sb	115	1	0.05	0.05	ppb	12.14	3600	
137	Ba	115	1	173.40	173.40	ppb	0.46	3600	
205	Tl	165	1	0.11	0.11	ppb	2.70	3600	
208	Pb	165	1	6.98	6.98	ppb	0.88	3600	
232	Th	165	1	3.22	3.22	ppb	0.79	1000	
238	U	165	1	0.58	0.58	ppb	0.83	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357971	0.95	398260	89.9	30 - 120	
45	Sc	1	2180385	0.81	2300683	94.8	30 - 120	
72	Ge	1	1278940	1.26	1383338	92.5	30 - 120	
115	In	1	3752264	0.57	4023995	93.2	30 - 120	
165	Ho	1	7136412	0.27	7427449	96.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\214AREF.D\214AREF.D#
Date Acquired:	Nov 16 2011 09:34 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-c-16-a
Misc Info:	
Vial Number:	4206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.29	0.29	ppb	7.27	3600	
51	V	72	1	35.24	35.24	ppb	1.52	3600	
52	Cr	72	1	19.19	19.19	ppb	0.75	3600	
55	Mn	72	1	548.70	548.70	ppb	0.92	18000	
59	Co	72	1	11.77	11.77	ppb	1.71	3600	
60	Ni	72	1	28.11	28.11	ppb	1.78	3600	
63	Cu	72	1	11.70	11.70	ppb	2.66	3600	
66	Zn	72	1	52.84	52.84	ppb	1.91	3600	
75	As	72	1	7.14	7.14	ppb	2.07	3600	
78	Se	72	1	0.68	0.68	ppb	116.23	3600	
95	Mo	72	1	0.60	0.60	ppb	3.38	3600	
107	Ag	115	1	0.05	0.05	ppb	3.36	3600	
111	Cd	115	1	0.35	0.35	ppb	9.38	3600	
118	Sn	115	1	0.24	0.24	ppb	0.89	3600	
121	Sb	115	1	0.06	0.06	ppb	16.08	3600	
137	Ba	115	1	143.30	143.30	ppb	2.54	3600	
205	Tl	165	1	0.09	0.09	ppb	5.46	3600	
208	Pb	165	1	6.40	6.40	ppb	1.45	3600	
232	Th	165	1	2.98	2.98	ppb	2.54	1000	
238	U	165	1	0.52	0.52	ppb	2.71	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	355668	1.04	398260	89.3	30 - 120	
45	Sc	1	2159606	1.63	2300683	93.9	30 - 120	
72	Ge	1	1274896	1.71	1383338	92.2	30 - 120	
115	In	1	3774000	1.98	4023995	93.8	30 - 120	
165	Ho	1	7168616	1.59	7427449	96.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\215_MS.D\215_MS.D#	
Date Acquired:	Nov 16 2011 09:37 pm	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	TEL	**ISTD: Pass**
Sample Name:	280-22230-c-16-b ms	
Misc Info:	MATRIX SPIKE	
Vial Number:	4207	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 16 2011 07:29 pm	
Sample Type:	MS	
Prep Dil. Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	38.13	0.29	ppb	2.37	40	94.6	50 - 150	
51 V	72	1	84.65	35.24	ppb	1.44	40	112.5	50 - 150	
52 Cr	72	1	60.93	19.19	ppb	1.60	40	102.9	50 - 150	
55 Mn	72	1	627.10	548.70	ppb	1.28	40	106.5	50 - 150	
59 Co	72	1	48.59	11.77	ppb	1.27	40	93.9	50 - 150	
60 Ni	72	1	63.00	28.11	ppb	1.40	40	92.5	50 - 150	
63 Cu	72	1	46.28	11.70	ppb	0.87	40	89.5	50 - 150	
66 Zn	72	1	87.79	52.84	ppb	0.99	40	94.6	50 - 150	
75 As	72	1	44.22	7.14	ppb	1.58	40	93.8	50 - 150	
78 Se	72	1	35.82	0.68	ppb	0.47	40	88.0	50 - 150	
95 Mo	72	1	188.70	0.60	ppb	0.79	40	464.8	50 - 150	
107 Ag	115	1	35.42	0.05	ppb	1.06	40	88.4	50 - 150	
111 Cd	115	1	38.09	0.35	ppb	1.22	40	94.4	50 - 150	
118 Sn	115	1	334.80	0.24	ppb	0.42	40	832.0	50 - 150	
121 Sb	115	1	58.15	0.06	ppb	0.32	40	145.2	50 - 150	
137 Ba	115	1	249.10	143.30	ppb	1.80	40	135.9	50 - 150	
205 Tl	165	1	37.20	0.09	ppb	0.27	40	92.8	50 - 150	
208 Pb	165	1	42.04	6.40	ppb	0.78	40	90.6	50 - 150	
232 Th	165	1	41.50	2.97	ppb	1.34	40	96.6	50 - 150	
238 U	165	1	38.13	0.52	ppb	1.22	40	94.1	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	351079	1.21	398260	88.2	30 - 120	
45 Sc	1	2148242	0.29	2300683	93.4	30 - 120	
72 Ge	1	1262096	0.83	1383338	91.2	30 - 120	
115 In	1	3712873	0.40	4023995	92.3	30 - 120	
165 Ho	1	7018113	0.71	7427449	94.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\216_MSD.D\216_MSD.D#		
Date Acquired:	Nov 16 2011 09:40 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	TEL	ISTD:	Pass
Sample Name:	280-22230-c-16-c msd		
Misc Info:	MATRIX SPIKE DUPLICATE		
Vial Number:	4208		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 07:29 pm		
Sample Type:	MSD		
Dilution Factor:	1.00		

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\215_MS.D\215_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	36.32	ppb	2.40	38.13	4.86	20	
51	V	72	1	78.24	ppb	0.16	84.65	7.87	20	
52	Cr	72	1	56.99	ppb	1.09	60.93	6.68	20	
55	Mn	72	1	492.30	ppb	1.75	627.10	24.08	20	
59	Co	72	1	45.03	ppb	1.65	48.59	7.61	20	
60	Ni	72	1	58.41	ppb	0.86	63.00	7.56	20	
63	Cu	72	1	43.72	ppb	1.50	46.28	5.69	20	
66	Zn	72	1	80.21	ppb	1.37	87.79	9.02	20	
75	As	72	1	41.02	ppb	1.25	44.22	7.51	20	
78	Se	72	1	34.55	ppb	5.68	35.82	3.61	20	
95	Mo	72	1	179.40	ppb	1.45	188.70	5.05	20	
107	Ag	115	1	34.21	ppb	0.70	35.42	3.48	20	
111	Cd	115	1	36.70	ppb	0.91	38.09	3.72	20	
118	Sn	115	1	325.40	ppb	1.75	334.80	2.85	20	
121	Sb	115	1	57.42	ppb	0.67	58.15	1.26	20	
137	Ba	115	1	217.40	ppb	1.98	249.10	13.59	20	
205	Tl	165	1	36.12	ppb	1.35	37.20	2.95	20	
208	Pb	165	1	40.11	ppb	2.30	42.04	4.70	20	
232	Th	165	1	39.98	ppb	1.10	41.50	3.73	20	
238	U	165	1	36.97	ppb	2.78	38.13	3.09	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	348358	1.30	398260	87.5	30 - 120	
45	Sc	1	2136490	0.55	2300683	92.9	30 - 120	
72	Ge	1	1272057	1.21	1383338	92.0	30 - 120	
115	In	1	3712203	1.09	4023995	92.3	30 - 120	
165	Ho	1	7119424	1.19	7427449	95.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\217SMPL.D\217SMPL.D#
Date Acquired:	Nov 16 2011 09:42 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-17-a
Misc Info:	
Vial Number:	4209
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.35	0.35	ppb	10.22	3600	
51	V	72	1	33.29	33.29	ppb	1.29	3600	
52	Cr	72	1	19.43	19.43	ppb	0.80	3600	
55	Mn	72	1	569.10	569.10	ppb	1.57	18000	
59	Co	72	1	10.26	10.26	ppb	1.74	3600	
60	Ni	72	1	27.30	27.30	ppb	1.86	3600	
63	Cu	72	1	12.06	12.06	ppb	2.03	3600	
66	Zn	72	1	49.14	49.14	ppb	1.20	3600	
75	As	72	1	6.60	6.60	ppb	2.74	3600	
78	Se	72	1	0.54	0.54	ppb	27.89	3600	
95	Mo	72	1	0.43	0.43	ppb	8.27	3600	
107	Ag	115	1	0.05	0.05	ppb	1.88	3600	
111	Cd	115	1	0.38	0.38	ppb	4.06	3600	
118	Sn	115	1	0.36	0.36	ppb	5.10	3600	
121	Sb	115	1	0.07	0.07	ppb	7.07	3600	
137	Ba	115	1	146.00	146.00	ppb	0.59	3600	
205	Tl	165	1	0.09	0.09	ppb	3.87	3600	
208	Pb	165	1	5.92	5.92	ppb	1.07	3600	
232	Th	165	1	2.94	2.94	ppb	0.64	1000	
238	U	165	1	0.51	0.51	ppb	1.79	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357292	0.64	398260	89.7	30 - 120	
45	Sc	1	2178985	0.48	2300683	94.7	30 - 120	
72	Ge	1	1282724	1.10	1383338	92.7	30 - 120	
115	In	1	3776403	0.58	4023995	93.8	30 - 120	
165	Ho	1	7107567	0.72	7427449	95.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\218SMPL.D\218SMPL.D#
Date Acquired:	Nov 16 2011 09:45 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-18-a
Misc Info:	
Vial Number:	4210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.24	0.24	ppb	16.07	3600	
51	V	72	1	24.45	24.45	ppb	1.05	3600	
52	Cr	72	1	14.81	14.81	ppb	1.81	3600	
55	Mn	72	1	196.60	196.60	ppb	1.22	18000	
59	Co	72	1	7.34	7.34	ppb	0.96	3600	
60	Ni	72	1	19.00	19.00	ppb	1.80	3600	
63	Cu	72	1	8.37	8.37	ppb	1.98	3600	
66	Zn	72	1	35.96	35.96	ppb	0.93	3600	
75	As	72	1	3.62	3.62	ppb	0.59	3600	
78	Se	72	1	0.42	0.42	ppb	82.58	3600	
95	Mo	72	1	0.40	0.40	ppb	2.80	3600	
107	Ag	115	1	0.04	0.04	ppb	6.05	3600	
111	Cd	115	1	0.26	0.26	ppb	9.56	3600	
118	Sn	115	1	0.24	0.24	ppb	2.45	3600	
121	Sb	115	1	0.06	0.06	ppb	14.53	3600	
137	Ba	115	1	126.30	126.30	ppb	0.63	3600	
205	Tl	165	1	0.08	0.08	ppb	5.63	3600	
208	Pb	165	1	4.39	4.39	ppb	0.48	3600	
232	Th	165	1	2.79	2.79	ppb	0.80	1000	
238	U	165	1	0.58	0.58	ppb	0.47	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357932	0.97	398260	89.9	30 - 120	
45	Sc	1	2191315	0.40	2300683	95.2	30 - 120	
72	Ge	1	1304859	1.07	1383338	94.3	30 - 120	
115	In	1	3859440	0.96	4023995	95.9	30 - 120	
165	Ho	1	7157502	0.76	7427449	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\219SMPL.D\219SMPL.D#
Date Acquired:	Nov 16 2011 09:48 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-19-a
Misc Info:	
Vial Number:	4211
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.23	0.23	ppb	21.38	3600	
51	V	72	1	30.76	30.76	ppb	0.21	3600	
52	Cr	72	1	18.17	18.17	ppb	0.90	3600	
55	Mn	72	1	304.90	304.90	ppb	0.97	18000	
59	Co	72	1	9.29	9.29	ppb	0.71	3600	
60	Ni	72	1	24.64	24.64	ppb	0.85	3600	
63	Cu	72	1	11.06	11.06	ppb	0.10	3600	
66	Zn	72	1	45.98	45.98	ppb	0.59	3600	
75	As	72	1	6.06	6.06	ppb	1.26	3600	
78	Se	72	1	0.60	0.60	ppb	2.00	3600	
95	Mo	72	1	0.57	0.57	ppb	4.48	3600	
107	Ag	115	1	0.05	0.05	ppb	7.39	3600	
111	Cd	115	1	0.27	0.27	ppb	15.55	3600	
118	Sn	115	1	0.27	0.27	ppb	10.51	3600	
121	Sb	115	1	0.06	0.06	ppb	1.42	3600	
137	Ba	115	1	120.20	120.20	ppb	1.60	3600	
205	Tl	165	1	0.09	0.09	ppb	2.15	3600	
208	Pb	165	1	5.39	5.39	ppb	1.22	3600	
232	Th	165	1	3.20	3.20	ppb	1.53	1000	
238	U	165	1	0.53	0.53	ppb	0.89	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	356296	1.48	398260	89.5	30 - 120	
45	Sc	1	2169438	0.76	2300683	94.3	30 - 120	
72	Ge	1	1302279	0.42	1383338	94.1	30 - 120	
115	In	1	3786300	1.10	4023995	94.1	30 - 120	
165	Ho	1	7166178	0.85	7427449	96.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\220_CCV.D\220_CCV.D#
Date Acquired:	Nov 16 2011 09:51 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.37	ppb	5.24	50	106.7	90 - 110	
51	V	72	1	51.52	ppb	1.37	50	103.0	90 - 110	
52	Cr	72	1	51.72	ppb	1.14	50	103.4	90 - 110	
55	Mn	72	1	50.64	ppb	1.05	50	101.3	90 - 110	
59	Co	72	1	51.32	ppb	0.39	50	102.6	90 - 110	
60	Ni	72	1	50.29	ppb	0.78	50	100.6	90 - 110	
63	Cu	72	1	49.40	ppb	0.25	50	98.8	90 - 110	
66	Zn	72	1	50.27	ppb	1.42	50	100.5	90 - 110	
75	As	72	1	50.74	ppb	0.98	50	101.5	90 - 110	
78	Se	72	1	50.76	ppb	1.71	50	101.5	90 - 110	
95	Mo	72	1	50.06	ppb	1.46	50	100.1	90 - 110	
107	Ag	115	1	51.06	ppb	1.50	50	102.1	90 - 110	
111	Cd	115	1	50.69	ppb	0.08	50	101.4	90 - 110	
118	Sn	115	1	49.51	ppb	0.38	50	99.0	90 - 110	
121	Sb	115	1	48.63	ppb	1.14	50	97.3	90 - 110	
137	Ba	115	1	51.42	ppb	0.71	50	102.8	90 - 110	
205	Tl	165	1	52.13	ppb	0.50	50	104.3	90 - 110	
208	Pb	165	1	50.65	ppb	0.97	50	101.3	90 - 110	
232	Th	165	1	52.09	ppb	0.57	50	104.2	90 - 110	
238	U	165	1	51.96	ppb	0.99	50	103.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	365062	1.71	398260	91.7	30 - 120	
45	Sc	1	2194228	0.52	2300683	95.4	30 - 120	
72	Ge	1	1333681	0.54	1383338	96.4	30 - 120	
115	In	1	3922199	0.73	4023995	97.5	30 - 120	
165	Ho	1	7194016	1.05	7427449	96.9	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\221_CCB.D\221_CCB.D#
Date Acquired:	Nov 16 2011 09:54 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	86.60	1.00	
51	V	72	1	0.013	ppb	53.24	1.00	
52	Cr	72	1	-0.003	ppb	108.28	1.00	
55	Mn	72	1	-0.010	ppb	105.89	1.00	
59	Co	72	1	0.005	ppb	46.87	1.00	
60	Ni	72	1	0.023	ppb	13.79	1.00	
63	Cu	72	1	0.002	ppb	316.62	1.00	
66	Zn	72	1	0.058	ppb	10.35	1.00	
75	As	72	1	-0.004	ppb	147.96	1.00	
78	Se	72	1	0.011	ppb	1476.80	1.00	
95	Mo	72	1	0.001	ppb	555.99	1.00	
107	Ag	115	1	0.009	ppb	4.39	1.00	
111	Cd	115	1	0.007	ppb	65.05	1.00	
118	Sn	115	1	0.040	ppb	14.85	1.00	
121	Sb	115	1	0.012	ppb	2.60	1.00	
137	Ba	115	1	-0.001	ppb	340.66	1.00	
205	Tl	165	1	0.011	ppb	8.34	1.00	
208	Pb	165	1	0.006	ppb	4.47	1.00	
232	Th	165	1	0.015	ppb	3.42	1.00	
238	U	165	1	0.010	ppb	14.80	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	371646	0.89	398260	93.3	30 - 120	
45	Sc	1	2262985	0.42	2300683	98.4	30 - 120	
72	Ge	1	1352038	1.13	1383338	97.7	30 - 120	
115	In	1	3969363	0.50	4023995	98.6	30 - 120	
165	Ho	1	7337758	0.49	7427449	98.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\222_BLK.D\222_BLK.D#
Date Acquired:	Nov 16 2011 09:57 pm
Operator:	TEL
Sample Name:	mb 280-94446/1-a
Misc Info:	BLANK 94446 Soil/DoD4 6020
Vial Number:	4212
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.018	ppb	173.18	2.00	
51	V	72	1	0.025	ppb	56.31	2.00	
52	Cr	72	1	0.277	ppb	4.75	2.00	
55	Mn	72	1	-0.001	ppb	1023.50	2.00	
59	Co	72	1	0.002	ppb	101.90	2.00	
60	Ni	72	1	0.089	ppb	6.47	2.00	
63	Cu	72	1	0.196	ppb	10.54	2.00	
66	Zn	72	1	0.670	ppb	5.78	2.00	
75	As	72	1	0.003	ppb	141.58	2.00	
78	Se	72	1	0.015	ppb	433.60	2.00	
95	Mo	72	1	-0.007	ppb	43.81	2.00	
107	Ag	115	1	0.006	ppb	11.55	2.00	
111	Cd	115	1	0.007	ppb	35.06	2.00	
118	Sn	115	1	0.058	ppb	19.42	2.00	
121	Sb	115	1	0.006	ppb	21.28	2.00	
137	Ba	115	1	1.395	ppb	2.10	2.00	
205	Tl	165	1	0.005	ppb	17.18	2.00	
208	Pb	165	1	0.035	ppb	3.16	2.00	
232	Th	165	1	0.009	ppb	6.10	2.00	
238	U	165	1	0.007	ppb	11.15	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	373177	0.84	398260	93.7	30 - 120	
45	Sc	1	2269486	1.81	2300683	98.6	30 - 120	
72	Ge	1	1339291	0.14	1383338	96.8	30 - 120	
115	In	1	3956410	0.63	4023995	98.3	30 - 120	
165	Ho	1	7284308	0.18	7427449	98.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\223_LCS.D\223_LCS.D#
Date Acquired:	Nov 16 2011 10:00 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-94446/2-a
Misc Info:	LCS
Vial Number:	4301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	38.48	1.00	40	96.2	80 - 120	
51	V	72	1	36.98	0.18	40	92.5	80 - 120	
52	Cr	72	1	37.91	0.33	40	94.8	80 - 120	
55	Mn	72	1	37.07	1.00	40	92.7	80 - 120	
59	Co	72	1	38.47	0.69	40	96.2	80 - 120	
60	Ni	72	1	37.94	0.13	40	94.9	80 - 120	
63	Cu	72	1	37.64	0.45	40	94.1	80 - 120	
66	Zn	72	1	36.88	0.30	40	92.2	80 - 120	
75	As	72	1	36.92	0.50	40	92.3	80 - 120	
78	Se	72	1	36.67	3.53	40	91.7	80 - 120	
95	Mo	72	1	192.50	0.56	40	481.3	80 - 120	
107	Ag	115	1	37.31	0.36	40	93.3	80 - 120	
111	Cd	115	1	38.40	0.83	40	96.0	80 - 120	
118	Sn	115	1	377.90	1.38	40	944.8	80 - 120	
121	Sb	115	1	93.62	0.29	40	234.1	80 - 120	
137	Ba	115	1	38.89	0.72	40	97.2	80 - 120	
205	Tl	165	1	38.89	0.80	40	97.2	80 - 120	
208	Pb	165	1	37.51	0.69	40	93.8	80 - 120	
232	Th	165	1	39.05	1.24	40	97.6	80 - 120	
238	U	165	1	39.06	0.89	40	97.7	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	369671	1.06	398260	92.8	30 - 120	
45	Sc	1	2215538	1.39	2300683	96.3	30 - 120	
72	Ge	1	1333194	0.46	1383338	96.4	30 - 120	
115	In	1	3926959	0.28	4023995	97.6	30 - 120	
165	Ho	1	7301510	0.58	7427449	98.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\224SMPL.D\224SMPL.D#
Date Acquired:	Nov 16 2011 10:03 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-b-11-a
Misc Info:	
Vial Number:	4302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	20.33	3600	
51	V	72	1	30.94	30.94	ppb	0.78	3600	
52	Cr	72	1	17.30	17.30	ppb	1.46	3600	
55	Mn	72	1	571.50	571.50	ppb	1.39	18000	
59	Co	72	1	9.31	9.31	ppb	0.74	3600	
60	Ni	72	1	24.46	24.46	ppb	0.73	3600	
63	Cu	72	1	10.92	10.92	ppb	1.73	3600	
66	Zn	72	1	45.89	45.89	ppb	0.54	3600	
75	As	72	1	6.40	6.40	ppb	0.95	3600	
78	Se	72	1	0.76	0.76	ppb	33.76	3600	
95	Mo	72	1	0.54	0.54	ppb	3.49	3600	
107	Ag	115	1	0.06	0.06	ppb	2.56	3600	
111	Cd	115	1	0.37	0.37	ppb	7.15	3600	
118	Sn	115	1	0.42	0.42	ppb	2.73	3600	
121	Sb	115	1	0.08	0.08	ppb	9.80	3600	
137	Ba	115	1	156.10	156.10	ppb	1.04	3600	
205	Tl	165	1	0.10	0.10	ppb	5.13	3600	
208	Pb	165	1	5.98	5.98	ppb	0.53	3600	
232	Th	165	1	2.49	2.49	ppb	1.28	1000	
238	U	165	1	0.53	0.53	ppb	1.46	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	363435	1.31	398260	91.3	30 - 120	
45	Sc	1	2221607	0.64	2300683	96.6	30 - 120	
72	Ge	1	1324029	0.89	1383338	95.7	30 - 120	
115	In	1	3867874	0.71	4023995	96.1	30 - 120	
165	Ho	1	7251856	0.40	7427449	97.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\225SMPL.D\225SMPL.D#
Date Acquired: Nov 16 2011 10:06 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-b-12-b
Misc Info:
Vial Number: 4303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.28	0.28	ppb	43.94	3600	
51	V	72	1	36.34	36.34	ppb	0.20	3600	
52	Cr	72	1	20.71	20.71	ppb	0.58	3600	
55	Mn	72	1	579.90	579.90	ppb	0.15	18000	
59	Co	72	1	10.24	10.24	ppb	0.29	3600	
60	Ni	72	1	27.19	27.19	ppb	0.23	3600	
63	Cu	72	1	12.76	12.76	ppb	0.22	3600	
66	Zn	72	1	51.66	51.66	ppb	0.48	3600	
75	As	72	1	6.30	6.30	ppb	2.11	3600	
78	Se	72	1	0.32	0.32	ppb	23.59	3600	
95	Mo	72	1	0.63	0.63	ppb	2.77	3600	
107	Ag	115	1	0.06	0.06	ppb	2.43	3600	
111	Cd	115	1	0.37	0.37	ppb	4.71	3600	
118	Sn	115	1	0.29	0.29	ppb	5.89	3600	
121	Sb	115	1	0.07	0.07	ppb	17.22	3600	
137	Ba	115	1	146.10	146.10	ppb	0.25	3600	
205	Tl	165	1	0.08	0.08	ppb	2.13	3600	
208	Pb	165	1	6.44	6.44	ppb	0.87	3600	
232	Th	165	1	3.06	3.06	ppb	1.69	1000	
238	U	165	1	0.51	0.51	ppb	2.11	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	352554	0.31	398260	88.5	30 - 120	
45	Sc	1	2180354	0.64	2300683	94.8	30 - 120	
72	Ge	1	1292349	0.40	1383338	93.4	30 - 120	
115	In	1	3789727	0.42	4023995	94.2	30 - 120	
165	Ho	1	7161205	0.99	7427449	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\226SMPL.D\226SMPL.D#
Date Acquired:	Nov 16 2011 10:09 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-a-13-a
Misc Info:	
Vial Number:	4304
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.17	0.17	ppb	54.18	3600	
51	V	72	1	21.98	21.98	ppb	0.88	3600	
52	Cr	72	1	13.04	13.04	ppb	1.71	3600	
55	Mn	72	1	248.70	248.70	ppb	2.29	18000	
59	Co	72	1	7.98	7.98	ppb	1.03	3600	
60	Ni	72	1	19.88	19.88	ppb	1.16	3600	
63	Cu	72	1	9.70	9.70	ppb	1.29	3600	
66	Zn	72	1	33.19	33.19	ppb	1.01	3600	
75	As	72	1	4.55	4.55	ppb	1.63	3600	
78	Se	72	1	0.67	0.67	ppb	85.41	3600	
95	Mo	72	1	0.33	0.33	ppb	4.88	3600	
107	Ag	115	1	0.04	0.04	ppb	13.80	3600	
111	Cd	115	1	0.29	0.29	ppb	8.44	3600	
118	Sn	115	1	0.19	0.19	ppb	6.98	3600	
121	Sb	115	1	0.08	0.08	ppb	7.00	3600	
137	Ba	115	1	111.70	111.70	ppb	1.23	3600	
205	Tl	165	1	0.07	0.07	ppb	5.75	3600	
208	Pb	165	1	4.61	4.61	ppb	1.16	3600	
232	Th	165	1	2.41	2.41	ppb	2.07	1000	
238	U	165	1	0.61	0.61	ppb	1.20	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357384	0.46	398260	89.7	30 - 120	
45	Sc	1	2180762	0.81	2300683	94.8	30 - 120	
72	Ge	1	1299723	0.26	1383338	94.0	30 - 120	
115	In	1	3836147	0.39	4023995	95.3	30 - 120	
165	Ho	1	7232526	0.52	7427449	97.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\227SMPL.D\227SMPL.D#
Date Acquired: Nov 16 2011 10:12 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-a-14-a
Misc Info:
Vial Number: 4305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.35	0.35	ppb	30.81	3600	
51	V	72	1	39.02	39.02	ppb	1.05	3600	
52	Cr	72	1	22.70	22.70	ppb	0.59	3600	
55	Mn	72	1	449.40	449.40	ppb	0.77	18000	
59	Co	72	1	11.86	11.86	ppb	0.12	3600	
60	Ni	72	1	31.00	31.00	ppb	0.50	3600	
63	Cu	72	1	17.02	17.02	ppb	0.63	3600	
66	Zn	72	1	61.77	61.77	ppb	0.55	3600	
75	As	72	1	10.93	10.93	ppb	0.67	3600	
78	Se	72	1	0.76	0.76	ppb	36.58	3600	
95	Mo	72	1	0.79	0.79	ppb	5.16	3600	
107	Ag	115	1	0.08	0.08	ppb	6.49	3600	
111	Cd	115	1	0.46	0.46	ppb	4.69	3600	
118	Sn	115	1	0.25	0.25	ppb	4.56	3600	
121	Sb	115	1	0.06	0.06	ppb	7.72	3600	
137	Ba	115	1	175.60	175.60	ppb	1.06	3600	
205	Tl	165	1	0.10	0.10	ppb	1.11	3600	
208	Pb	165	1	7.13	7.13	ppb	0.64	3600	
232	Th	165	1	4.12	4.12	ppb	1.48	1000	
238	U	165	1	0.64	0.64	ppb	1.06	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	351400	1.34	398260	88.2	30 - 120	
45	Sc	1	2149552	0.78	2300683	93.4	30 - 120	
72	Ge	1	1271071	0.41	1383338	91.9	30 - 120	
115	In	1	3768191	0.61	4023995	93.6	30 - 120	
165	Ho	1	7157506	0.51	7427449	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\228SMPL.D\228SMPL.D#
Date Acquired: Nov 16 2011 10:15 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-a-15-b
Misc Info:
Vial Number: 4306
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.80	0.80	ppb	26.33	3600	
51 V	72	1	78.70	78.70	ppb	0.90	3600	
52 Cr	72	1	51.57	51.57	ppb	0.98	3600	
55 Mn	72	1	953.10	953.10	ppb	1.18	18000	
59 Co	72	1	19.86	19.86	ppb	1.02	3600	
60 Ni	72	1	58.01	58.01	ppb	0.55	3600	
63 Cu	72	1	49.52	49.52	ppb	0.68	3600	
66 Zn	72	1	149.80	149.80	ppb	0.77	3600	
75 As	72	1	18.86	18.86	ppb	1.13	3600	
78 Se	72	1	2.21	2.21	ppb	11.22	3600	
95 Mo	72	1	1.39	1.39	ppb	1.35	3600	
107 Ag	115	1	0.27	0.27	ppb	6.01	3600	
111 Cd	115	1	1.07	1.07	ppb	4.52	3600	
118 Sn	115	1	0.30	0.30	ppb	11.24	3600	
121 Sb	115	1	0.09	0.09	ppb	3.14	3600	
137 Ba	115	1	423.80	423.80	ppb	1.45	3600	
205 Tl	165	1	0.21	0.21	ppb	2.15	3600	
208 Pb	165	1	20.27	20.27	ppb	0.36	3600	
232 Th	165	1	7.94	7.94	ppb	0.59	1000	
238 U	165	1	1.46	1.46	ppb	0.04	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	338884	0.32	398260	85.1	30 - 120	
45 Sc	1	2106810	0.59	2300683	91.6	30 - 120	
72 Ge	1	1221424	0.86	1383338	88.3	30 - 120	
115 In	1	3640783	0.45	4023995	90.5	30 - 120	
165 Ho	1	6880948	0.47	7427449	92.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\229SMPL.D\229SMPL.D#
Date Acquired:	Nov 16 2011 10:18 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-b-16-b
Misc Info:	
Vial Number:	4307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.65	0.65	ppb	14.60	3600	
51	V	72	1	62.66	62.66	ppb	3.58	3600	
52	Cr	72	1	36.72	36.72	ppb	2.60	3600	
55	Mn	72	1	555.20	555.20	ppb	3.08	18000	
59	Co	72	1	15.86	15.86	ppb	2.00	3600	
60	Ni	72	1	44.74	44.74	ppb	2.28	3600	
63	Cu	72	1	35.19	35.19	ppb	2.15	3600	
66	Zn	72	1	118.50	118.50	ppb	2.65	3600	
75	As	72	1	13.39	13.39	ppb	1.80	3600	
78	Se	72	1	1.32	1.32	ppb	18.11	3600	
95	Mo	72	1	0.89	0.89	ppb	9.24	3600	
107	Ag	115	1	0.19	0.19	ppb	4.08	3600	
111	Cd	115	1	0.77	0.77	ppb	4.07	3600	
118	Sn	115	1	0.52	0.52	ppb	7.49	3600	
121	Sb	115	1	0.07	0.07	ppb	13.57	3600	
137	Ba	115	1	303.60	303.60	ppb	4.28	3600	
205	Tl	165	1	0.17	0.17	ppb	4.40	3600	
208	Pb	165	1	19.88	19.88	ppb	5.11	3600	
232	Th	165	1	5.76	5.76	ppb	5.13	1000	
238	U	165	1	1.00	1.00	ppb	4.52	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	334366	2.65	398260	84.0	30 - 120	
45	Sc	1	2073905	3.68	2300683	90.1	30 - 120	
72	Ge	1	1232013	2.13	1383338	89.1	30 - 120	
115	In	1	3580755	3.93	4023995	89.0	30 - 120	
165	Ho	1	6846893	4.47	7427449	92.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\230_CCV.D\230_CCV.D#
Date Acquired:	Nov 16 2011 10:20 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.07	ppb	2.13	50	106.1	90 - 110	
51	V	72	1	51.55	ppb	0.73	50	103.1	90 - 110	
52	Cr	72	1	52.00	ppb	1.77	50	104.0	90 - 110	
55	Mn	72	1	51.35	ppb	1.87	50	102.7	90 - 110	
59	Co	72	1	52.11	ppb	0.83	50	104.2	90 - 110	
60	Ni	72	1	50.48	ppb	0.73	50	101.0	90 - 110	
63	Cu	72	1	49.95	ppb	0.87	50	99.9	90 - 110	
66	Zn	72	1	50.68	ppb	0.79	50	101.4	90 - 110	
75	As	72	1	50.99	ppb	0.79	50	102.0	90 - 110	
78	Se	72	1	51.65	ppb	3.63	50	103.3	90 - 110	
95	Mo	72	1	50.67	ppb	1.00	50	101.3	90 - 110	
107	Ag	115	1	51.66	ppb	0.88	50	103.3	90 - 110	
111	Cd	115	1	50.73	ppb	0.78	50	101.5	90 - 110	
118	Sn	115	1	49.54	ppb	1.13	50	99.1	90 - 110	
121	Sb	115	1	48.63	ppb	0.69	50	97.3	90 - 110	
137	Ba	115	1	51.35	ppb	0.79	50	102.7	90 - 110	
205	Tl	165	1	52.47	ppb	1.64	50	104.9	90 - 110	
208	Pb	165	1	50.50	ppb	0.77	50	101.0	90 - 110	
232	Th	165	1	51.60	ppb	1.60	50	103.2	90 - 110	
238	U	165	1	51.75	ppb	1.26	50	103.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357096	1.11	398260	89.7	30 - 120	
45	Sc	1	2173298	0.68	2300683	94.5	30 - 120	
72	Ge	1	1296766	0.36	1383338	93.7	30 - 120	
115	In	1	3857227	0.58	4023995	95.9	30 - 120	
165	Ho	1	7187314	0.74	7427449	96.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\231_CCB.D\231_CCB.D#
Date Acquired: Nov 16 2011 10:23 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	86.57	1.00	
51	V	72	1	0.021	ppb	60.71	1.00	
52	Cr	72	1	0.003	ppb	288.04	1.00	
55	Mn	72	1	0.003	ppb	633.55	1.00	
59	Co	72	1	0.006	ppb	24.34	1.00	
60	Ni	72	1	0.029	ppb	23.11	1.00	
63	Cu	72	1	0.005	ppb	114.33	1.00	
66	Zn	72	1	0.066	ppb	11.74	1.00	
75	As	72	1	0.005	ppb	101.83	1.00	
78	Se	72	1	0.198	ppb	147.57	1.00	
95	Mo	72	1	-0.003	ppb	202.98	1.00	
107	Ag	115	1	0.008	ppb	14.14	1.00	
111	Cd	115	1	0.007	ppb	47.67	1.00	
118	Sn	115	1	0.040	ppb	8.75	1.00	
121	Sb	115	1	0.012	ppb	24.40	1.00	
137	Ba	115	1	0.013	ppb	22.12	1.00	
205	Tl	165	1	0.011	ppb	6.57	1.00	
208	Pb	165	1	0.007	ppb	16.60	1.00	
232	Th	165	1	0.015	ppb	2.87	1.00	
238	U	165	1	0.009	ppb	8.82	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	365231	0.06	398260	91.7	30 - 120	
45	Sc	1	2203369	0.70	2300683	95.8	30 - 120	
72	Ge	1	1328446	0.57	1383338	96.0	30 - 120	
115	In	1	3881311	0.57	4023995	96.5	30 - 120	
165	Ho	1	7152456	0.49	7427449	96.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\232AREF.D\232AREF.D#
Date Acquired: Nov 16 2011 10:26 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-a-17-d
Misc Info:
Vial Number: 4308
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.72	0.72	ppb	18.13	3600	
51	V	72	1	75.16	75.16	ppb	1.92	3600	
52	Cr	72	1	47.07	47.07	ppb	1.69	3600	
55	Mn	72	1	851.50	851.50	ppb	0.78	18000	
59	Co	72	1	19.13	19.13	ppb	0.69	3600	
60	Ni	72	1	55.36	55.36	ppb	0.23	3600	
63	Cu	72	1	47.18	47.18	ppb	1.18	3600	
66	Zn	72	1	135.90	135.90	ppb	0.57	3600	
75	As	72	1	18.19	18.19	ppb	1.64	3600	
78	Se	72	1	1.97	1.97	ppb	29.07	3600	
95	Mo	72	1	1.38	1.38	ppb	1.99	3600	
107	Ag	115	1	0.22	0.22	ppb	1.58	3600	
111	Cd	115	1	0.93	0.93	ppb	6.50	3600	
118	Sn	115	1	0.29	0.29	ppb	3.43	3600	
121	Sb	115	1	0.11	0.11	ppb	4.08	3600	
137	Ba	115	1	401.90	401.90	ppb	0.83	3600	
205	Tl	165	1	0.21	0.21	ppb	1.72	3600	
208	Pb	165	1	15.20	15.20	ppb	0.33	3600	
232	Th	165	1	7.89	7.89	ppb	0.68	1000	
238	U	165	1	1.44	1.44	ppb	1.11	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	336051	1.19	398260	84.4	30 - 120	
45	Sc	1	2118102	1.04	2300683	92.1	30 - 120	
72	Ge	1	1228567	0.81	1383338	88.8	30 - 120	
115	In	1	3630857	0.59	4023995	90.2	30 - 120	
165	Ho	1	6952798	0.52	7427449	93.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\233SDIL.D\233SDIL.D#
Date Acquired: Nov 16 2011 10:29 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-a-17-d SD@5
Misc Info: SERIAL DILUTION
Vial Number: 4309
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\232AREF.D\232AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.17	ppb	19.62	0.14	116.5	90 - 110	
51	V	72	1	14.93	ppb	0.66	15.03	99.3	90 - 110	
52	Cr	72	1	9.38	ppb	0.58	9.41	99.7	90 - 110	
55	Mn	72	1	174.80	ppb	0.87	170.30	102.6	90 - 110	
59	Co	72	1	3.95	ppb	1.21	3.83	103.3	90 - 110	
60	Ni	72	1	11.44	ppb	2.03	11.07	103.3	90 - 110	
63	Cu	72	1	9.93	ppb	1.87	9.44	105.3	90 - 110	
66	Zn	72	1	28.79	ppb	1.15	27.18	105.9	90 - 110	
75	As	72	1	3.82	ppb	3.02	3.64	105.0	90 - 110	
78	Se	72	1	0.34	ppb	45.85	0.39	86.2	90 - 110	
95	Mo	72	1	0.26	ppb	0.49	0.28	95.3	90 - 110	
107	Ag	115	1	0.05	ppb	6.36	0.04	108.4	90 - 110	
111	Cd	115	1	0.20	ppb	14.08	0.19	105.7	90 - 110	
118	Sn	115	1	0.11	ppb	5.84	0.06	180.9	90 - 110	
121	Sb	115	1	0.03	ppb	16.05	0.02	119.7	90 - 110	
137	Ba	115	1	78.87	ppb	0.39	80.38	98.1	90 - 110	
205	Tl	165	1	0.04	ppb	3.11	0.04	106.0	90 - 110	
208	Pb	165	1	3.15	ppb	0.71	3.04	103.5	90 - 110	
232	Th	165	1	1.58	ppb	0.92	1.58	100.4	90 - 110	
238	U	165	1	0.30	ppb	0.97	0.29	103.4	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	351424	0.82	398260	88.2	30 - 120	
45	Sc	1	2157372	0.16	2300683	93.8	30 - 120	
72	Ge	1	1286897	1.14	1383338	93.0	30 - 120	
115	In	1	3778114	0.22	4023995	93.9	30 - 120	
165	Ho	1	7162192	0.32	7427449	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\234PDS.D\234PDS.D#
Date Acquired:	Nov 16 2011 10:32 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-a-17-d PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	4310
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	198.00	0.72	ppb	1.97	200	98.6	75 - 125	
51 V	72	1	251.60	75.16	ppb	0.27	200	91.4	75 - 125	
52 Cr	72	1	228.30	47.07	ppb	1.11	200	92.4	75 - 125	
55 Mn	72	1	958.20	851.50	ppb	0.40	200	91.1	75 - 125	
59 Co	72	1	199.10	19.13	ppb	0.85	200	90.9	75 - 125	
60 Ni	72	1	242.20	55.36	ppb	1.04	200	94.8	75 - 125	
63 Cu	72	1	221.70	47.18	ppb	1.34	200	89.7	75 - 125	
66 Zn	72	1	304.20	135.90	ppb	0.36	200	90.6	75 - 125	
75 As	72	1	207.20	18.19	ppb	0.28	200	95.0	75 - 125	
78 Se	72	1	189.30	1.97	ppb	2.16	200	93.7	75 - 125	
95 Mo	72	1	201.40	1.38	ppb	1.35	200	100.0	75 - 125	
107 Ag	115	1	46.84	0.22	ppb	0.92	50	93.3	75 - 125	
111 Cd	115	1	191.00	0.93	ppb	0.85	200	95.1	75 - 125	
118 Sn	115	1	193.20	0.29	ppb	1.99	200	96.5	75 - 125	
121 Sb	115	1	186.50	0.11	ppb	1.47	200	93.2	75 - 125	
137 Ba	115	1	558.80	401.90	ppb	0.90	200	92.8	75 - 125	
205 Tl	165	1	186.70	0.21	ppb	0.77	200	93.3	75 - 125	
208 Pb	165	1	195.00	15.20	ppb	1.15	200	90.6	75 - 125	
232 Th	165	1	7.21	7.89	ppb	0.66	200	3.5	75 - 125	
238 U	165	1	191.70	1.44	ppb	0.91	200	95.2	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	334151	0.65	398260	83.9	30 - 120	
45 Sc	1	2082870	0.78	2300683	90.5	30 - 120	
72 Ge	1	1199256	0.08	1383338	86.7	30 - 120	
115 In	1	3585615	0.86	4023995	89.1	30 - 120	
165 Ho	1	6822564	0.35	7427449	91.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\235_MS.D\235_MS.D#		
Date Acquired:	Nov 16 2011 10:35 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	TEL	ISTD:	Pass
Sample Name:	280-22232-a-17-e ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	4311		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 07:29 pm		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	40.48	0.72	ppb	4.07	40	99.4	50 - 150	
51	V	72	1	137.30	75.16	ppb	0.05	40	119.2	50 - 150	
52	Cr	72	1	97.22	47.07	ppb	1.62	40	111.7	50 - 150	
55	Mn	72	1	845.30	851.50	ppb	1.48	40	94.8	50 - 150	
59	Co	72	1	56.39	19.13	ppb	0.57	40	95.4	50 - 150	
60	Ni	72	1	89.62	55.36	ppb	1.33	40	94.0	50 - 150	
63	Cu	72	1	82.80	47.18	ppb	1.75	40	95.0	50 - 150	
66	Zn	72	1	167.50	135.90	ppb	1.13	40	95.2	50 - 150	
75	As	72	1	54.50	18.19	ppb	0.61	40	93.7	50 - 150	
78	Se	72	1	39.13	1.97	ppb	2.61	40	93.2	50 - 150	
95	Mo	72	1	190.60	1.38	ppb	0.33	40	460.6	50 - 150	
107	Ag	115	1	35.53	0.22	ppb	0.74	40	88.3	50 - 150	
111	Cd	115	1	39.62	0.93	ppb	0.74	40	96.8	50 - 150	
118	Sn	115	1	265.50	0.29	ppb	0.80	40	658.9	50 - 150	
121	Sb	115	1	27.01	0.11	ppb	0.16	40	67.3	50 - 150	
137	Ba	115	1	529.10	401.90	ppb	1.82	40	119.7	50 - 150	
205	Tl	165	1	38.31	0.21	ppb	1.56	40	95.3	50 - 150	
208	Pb	165	1	51.10	15.20	ppb	1.06	40	92.6	50 - 150	
232	Th	165	1	47.34	7.89	ppb	0.51	40	98.9	50 - 150	
238	U	165	1	40.92	1.44	ppb	0.99	40	98.7	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	327041	0.94	398260	82.1	30 - 120	
45	Sc	1	2068974	0.11	2300683	89.9	30 - 120	
72	Ge	1	1201923	0.79	1383338	86.9	30 - 120	
115	In	1	3532600	0.39	4023995	87.8	30 - 120	
165	Ho	1	6742041	1.11	7427449	90.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\236_MSD.D\236_MSD.D#
Date Acquired:	Nov 16 2011 10:38 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-a-17-f msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	4312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\235_MS.D\235_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	40.16	ppb	1.82	40.48	0.79	20	
51	V	72	1	144.10	ppb	1.42	137.30	4.83	20	
52	Cr	72	1	100.20	ppb	1.16	97.22	3.02	20	
55	Mn	72	1	941.80	ppb	1.40	845.30	10.80	20	
59	Co	72	1	57.83	ppb	1.09	56.39	2.52	20	
60	Ni	72	1	94.04	ppb	0.80	89.62	4.81	20	
63	Cu	72	1	86.03	ppb	0.83	82.80	3.83	20	
66	Zn	72	1	180.00	ppb	0.65	167.50	7.19	20	
75	As	72	1	55.23	ppb	0.60	54.50	1.33	20	
78	Se	72	1	37.95	ppb	3.72	39.13	3.06	20	
95	Mo	72	1	190.80	ppb	1.49	190.60	0.10	20	
107	Ag	115	1	35.18	ppb	0.40	35.53	0.99	20	
111	Cd	115	1	39.49	ppb	1.14	39.62	0.33	20	
118	Sn	115	1	265.50	ppb	0.64	265.50	0.00	20	
121	Sb	115	1	27.93	ppb	0.67	27.01	3.35	20	
137	Ba	115	1	554.00	ppb	0.73	529.10	4.60	20	
205	Tl	165	1	38.16	ppb	0.34	38.31	0.39	20	
208	Pb	165	1	52.04	ppb	1.37	51.10	1.82	20	
232	Th	165	1	47.44	ppb	0.98	47.34	0.21	20	
238	U	165	1	40.03	ppb	1.19	40.92	2.20	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	324012	0.61	398260	81.4	30 - 120	
45	Sc	1	2056432	0.38	2300683	89.4	30 - 120	
72	Ge	1	1186791	0.16	1383338	85.8	30 - 120	
115	In	1	3479573	0.70	4023995	86.5	30 - 120	
165	Ho	1	6579945	1.01	7427449	88.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\237SMPL.D\237SMPL.D#
Date Acquired: Nov 16 2011 10:41 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-d-18-d
Misc Info:
Vial Number: 4401
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.60	0.60	ppb	14.88	3600	
51	V	72	1	56.44	56.44	ppb	1.63	3600	
52	Cr	72	1	33.41	33.41	ppb	0.79	3600	
55	Mn	72	1	641.20	641.20	ppb	1.46	18000	
59	Co	72	1	14.85	14.85	ppb	1.51	3600	
60	Ni	72	1	42.64	42.64	ppb	0.80	3600	
63	Cu	72	1	32.96	32.96	ppb	1.28	3600	
66	Zn	72	1	101.40	101.40	ppb	1.29	3600	
75	As	72	1	12.96	12.96	ppb	0.94	3600	
78	Se	72	1	1.66	1.66	ppb	34.44	3600	
95	Mo	72	1	1.06	1.06	ppb	5.20	3600	
107	Ag	115	1	0.18	0.18	ppb	5.68	3600	
111	Cd	115	1	0.65	0.65	ppb	4.78	3600	
118	Sn	115	1	0.38	0.38	ppb	4.76	3600	
121	Sb	115	1	0.09	0.09	ppb	3.33	3600	
137	Ba	115	1	298.70	298.70	ppb	2.48	3600	
205	Tl	165	1	0.15	0.15	ppb	3.48	3600	
208	Pb	165	1	10.68	10.68	ppb	0.73	3600	
232	Th	165	1	5.58	5.58	ppb	0.51	1000	
238	U	165	1	1.04	1.04	ppb	0.63	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	332406	0.18	398260	83.5	30 - 120	
45	Sc	1	2071728	2.49	2300683	90.0	30 - 120	
72	Ge	1	1216812	0.99	1383338	88.0	30 - 120	
115	In	1	3599061	1.37	4023995	89.4	30 - 120	
165	Ho	1	6887809	0.99	7427449	92.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\238SMPL.D\238SMPL.D#
Date Acquired: Nov 16 2011 10:44 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-a-19-b
Misc Info:
Vial Number: 4402
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.70	0.70	ppb	15.62	3600	
51	V	72	1	77.45	77.45	ppb	1.53	3600	
52	Cr	72	1	48.26	48.26	ppb	3.53	3600	
55	Mn	72	1	880.40	880.40	ppb	1.29	18000	
59	Co	72	1	19.43	19.43	ppb	1.55	3600	
60	Ni	72	1	56.45	56.45	ppb	1.31	3600	
63	Cu	72	1	49.49	49.49	ppb	1.80	3600	
66	Zn	72	1	139.90	139.90	ppb	1.14	3600	
75	As	72	1	18.46	18.46	ppb	3.11	3600	
78	Se	72	1	2.46	2.46	ppb	9.85	3600	
95	Mo	72	1	1.44	1.44	ppb	2.24	3600	
107	Ag	115	1	0.24	0.24	ppb	5.46	3600	
111	Cd	115	1	0.93	0.93	ppb	11.14	3600	
118	Sn	115	1	0.33	0.33	ppb	5.23	3600	
121	Sb	115	1	0.11	0.11	ppb	9.08	3600	
137	Ba	115	1	408.60	408.60	ppb	1.65	3600	
205	Tl	165	1	0.22	0.22	ppb	1.20	3600	
208	Pb	165	1	16.75	16.75	ppb	1.58	3600	
232	Th	165	1	7.86	7.86	ppb	1.66	1000	
238	U	165	1	1.47	1.47	ppb	1.32	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	330760	0.90	398260	83.1	30 - 120	
45	Sc	1	2107275	1.52	2300683	91.6	30 - 120	
72	Ge	1	1220576	1.18	1383338	88.2	30 - 120	
115	In	1	3640856	0.97	4023995	90.5	30 - 120	
165	Ho	1	6853028	1.35	7427449	92.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\239SMPL.D\239SMPL.D#
Date Acquired:	Nov 16 2011 10:47 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-a-20-c
Misc Info:	
Vial Number:	4403
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.58	0.58	ppb	30.35	3600	
51	V	72	1	63.37	63.37	ppb	1.05	3600	
52	Cr	72	1	39.95	39.95	ppb	1.14	3600	
55	Mn	72	1	624.30	624.30	ppb	0.85	18000	
59	Co	72	1	15.78	15.78	ppb	0.86	3600	
60	Ni	72	1	46.71	46.71	ppb	0.78	3600	
63	Cu	72	1	36.02	36.02	ppb	0.42	3600	
66	Zn	72	1	106.40	106.40	ppb	1.33	3600	
75	As	72	1	14.02	14.02	ppb	1.55	3600	
78	Se	72	1	1.54	1.54	ppb	12.95	3600	
95	Mo	72	1	1.04	1.04	ppb	5.83	3600	
107	Ag	115	1	0.16	0.16	ppb	3.87	3600	
111	Cd	115	1	0.71	0.71	ppb	8.21	3600	
118	Sn	115	1	0.30	0.30	ppb	2.31	3600	
121	Sb	115	1	0.08	0.08	ppb	2.36	3600	
137	Ba	115	1	308.00	308.00	ppb	0.87	3600	
205	Tl	165	1	0.17	0.17	ppb	2.54	3600	
208	Pb	165	1	13.81	13.81	ppb	0.72	3600	
232	Th	165	1	6.41	6.41	ppb	0.31	1000	
238	U	165	1	1.12	1.12	ppb	0.73	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	326724	1.02	398260	82.0	30 - 120	
45	Sc	1	2056978	1.29	2300683	89.4	30 - 120	
72	Ge	1	1207380	0.61	1383338	87.3	30 - 120	
115	In	1	3541226	1.29	4023995	88.0	30 - 120	
165	Ho	1	6680246	0.06	7427449	89.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\240_CCV.D\240_CCV.D#
Date Acquired:	Nov 16 2011 10:49 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.06	ppb	1.73	50	104.1	90 - 110	
51	V	72	1	51.31	ppb	1.53	50	102.6	90 - 110	
52	Cr	72	1	52.09	ppb	1.92	50	104.2	90 - 110	
55	Mn	72	1	50.32	ppb	2.29	50	100.6	90 - 110	
59	Co	72	1	51.57	ppb	1.67	50	103.1	90 - 110	
60	Ni	72	1	50.87	ppb	0.69	50	101.7	90 - 110	
63	Cu	72	1	49.69	ppb	0.08	50	99.4	90 - 110	
66	Zn	72	1	50.74	ppb	0.69	50	101.5	90 - 110	
75	As	72	1	50.97	ppb	0.79	50	101.9	90 - 110	
78	Se	72	1	52.03	ppb	1.84	50	104.1	90 - 110	
95	Mo	72	1	50.63	ppb	0.81	50	101.3	90 - 110	
107	Ag	115	1	50.13	ppb	0.40	50	100.3	90 - 110	
111	Cd	115	1	49.66	ppb	1.06	50	99.3	90 - 110	
118	Sn	115	1	48.66	ppb	1.26	50	97.3	90 - 110	
121	Sb	115	1	47.76	ppb	0.57	50	95.5	90 - 110	
137	Ba	115	1	50.54	ppb	0.50	50	101.1	90 - 110	
205	Tl	165	1	51.78	ppb	0.34	50	103.6	90 - 110	
208	Pb	165	1	49.67	ppb	0.98	50	99.3	90 - 110	
232	Th	165	1	51.01	ppb	1.38	50	102.0	90 - 110	
238	U	165	1	51.15	ppb	0.66	50	102.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	349068	0.96	398260	87.6	30 - 120	
45	Sc	1	2128060	0.84	2300683	92.5	30 - 120	
72	Ge	1	1273352	0.27	1383338	92.0	30 - 120	
115	In	1	3844329	0.49	4023995	95.5	30 - 120	
165	Ho	1	6988553	0.46	7427449	94.1	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\241_CCB.D\241_CCB.D#
Date Acquired: Nov 16 2011 10:52 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	173.24	1.00	
51	V	72	1	0.026	ppb	39.68	1.00	
52	Cr	72	1	0.003	ppb	206.47	1.00	
55	Mn	72	1	0.019	ppb	121.57	1.00	
59	Co	72	1	0.012	ppb	47.43	1.00	
60	Ni	72	1	0.023	ppb	32.60	1.00	
63	Cu	72	1	0.003	ppb	121.69	1.00	
66	Zn	72	1	0.082	ppb	24.31	1.00	
75	As	72	1	0.007	ppb	94.57	1.00	
78	Se	72	1	0.125	ppb	268.69	1.00	
95	Mo	72	1	0.008	ppb	33.55	1.00	
107	Ag	115	1	0.011	ppb	11.30	1.00	
111	Cd	115	1	0.010	ppb	27.25	1.00	
118	Sn	115	1	0.044	ppb	8.98	1.00	
121	Sb	115	1	0.015	ppb	18.45	1.00	
137	Ba	115	1	0.018	ppb	29.86	1.00	
205	Tl	165	1	0.017	ppb	9.00	1.00	
208	Pb	165	1	0.011	ppb	8.34	1.00	
232	Th	165	1	0.018	ppb	12.75	1.00	
238	U	165	1	0.013	ppb	11.18	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	349497	0.25	398260	87.8	30 - 120	
45	Sc	1	2144946	0.62	2300683	93.2	30 - 120	
72	Ge	1	1282878	0.64	1383338	92.7	30 - 120	
115	In	1	3815116	1.90	4023995	94.8	30 - 120	
165	Ho	1	6993843	1.01	7427449	94.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\242SMPL.D\242SMPL.D#
Date Acquired: Nov 16 2011 10:55 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-b-21-d
Misc Info:
Vial Number: 4404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.74	0.74	ppb	8.75	3600	
51	V	72	1	71.33	71.33	ppb	1.40	3600	
52	Cr	72	1	44.40	44.40	ppb	1.08	3600	
55	Mn	72	1	742.70	742.70	ppb	0.44	18000	
59	Co	72	1	18.11	18.11	ppb	1.36	3600	
60	Ni	72	1	52.90	52.90	ppb	1.63	3600	
63	Cu	72	1	46.90	46.90	ppb	1.59	3600	
66	Zn	72	1	142.40	142.40	ppb	0.88	3600	
75	As	72	1	16.58	16.58	ppb	1.45	3600	
78	Se	72	1	2.61	2.61	ppb	14.16	3600	
95	Mo	72	1	1.30	1.30	ppb	2.96	3600	
107	Ag	115	1	0.22	0.22	ppb	2.16	3600	
111	Cd	115	1	1.05	1.05	ppb	2.59	3600	
118	Sn	115	1	0.36	0.36	ppb	5.97	3600	
121	Sb	115	1	0.10	0.10	ppb	5.35	3600	
137	Ba	115	1	377.90	377.90	ppb	0.04	3600	
205	Tl	165	1	0.20	0.20	ppb	1.24	3600	
208	Pb	165	1	17.47	17.47	ppb	0.82	3600	
232	Th	165	1	7.34	7.34	ppb	1.21	1000	
238	U	165	1	1.30	1.30	ppb	0.55	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	327336	0.66	398260	82.2	30 - 120	
45	Sc	1	2068473	0.73	2300683	89.9	30 - 120	
72	Ge	1	1198357	1.40	1383338	86.6	30 - 120	
115	In	1	3563071	0.72	4023995	88.5	30 - 120	
165	Ho	1	6741396	0.50	7427449	90.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\243SMPL.D\243SMPL.D#
Date Acquired:	Nov 16 2011 10:58 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-b-22-d
Misc Info:	
Vial Number:	4405
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.49	0.49	ppb	16.07	3600	
51	V	72	1	57.95	57.95	ppb	2.07	3600	
52	Cr	72	1	35.11	35.11	ppb	1.23	3600	
55	Mn	72	1	649.90	649.90	ppb	1.19	18000	
59	Co	72	1	15.13	15.13	ppb	0.74	3600	
60	Ni	72	1	43.33	43.33	ppb	1.97	3600	
63	Cu	72	1	36.60	36.60	ppb	1.44	3600	
66	Zn	72	1	107.00	107.00	ppb	0.82	3600	
75	As	72	1	13.26	13.26	ppb	1.42	3600	
78	Se	72	1	1.77	1.77	ppb	11.56	3600	
95	Mo	72	1	1.06	1.06	ppb	7.06	3600	
107	Ag	115	1	0.20	0.20	ppb	5.48	3600	
111	Cd	115	1	0.71	0.71	ppb	5.46	3600	
118	Sn	115	1	0.22	0.22	ppb	13.42	3600	
121	Sb	115	1	0.07	0.07	ppb	2.41	3600	
137	Ba	115	1	327.10	327.10	ppb	2.33	3600	
205	Tl	165	1	0.16	0.16	ppb	2.62	3600	
208	Pb	165	1	11.24	11.24	ppb	1.26	3600	
232	Th	165	1	5.91	5.91	ppb	2.04	1000	
238	U	165	1	1.09	1.09	ppb	2.51	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	326360	0.58	398260	81.9	30 - 120	
45	Sc	1	2062312	1.27	2300683	89.6	30 - 120	
72	Ge	1	1203398	0.73	1383338	87.0	30 - 120	
115	In	1	3572486	0.89	4023995	88.8	30 - 120	
165	Ho	1	6776816	0.42	7427449	91.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\244SMPL.D\244SMPL.D#
Date Acquired:	Nov 16 2011 11:01 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-a-23-c
Misc Info:	
Vial Number:	4406
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.43	0.43	ppb	12.27	3600	
51	V	72	1	39.18	39.18	ppb	0.79	3600	
52	Cr	72	1	21.81	21.81	ppb	0.76	3600	
55	Mn	72	1	404.50	404.50	ppb	0.80	18000	
59	Co	72	1	10.71	10.71	ppb	1.27	3600	
60	Ni	72	1	30.46	30.46	ppb	0.82	3600	
63	Cu	72	1	17.31	17.31	ppb	0.44	3600	
66	Zn	72	1	61.47	61.47	ppb	0.88	3600	
75	As	72	1	8.54	8.54	ppb	0.68	3600	
78	Se	72	1	0.72	0.72	ppb	16.62	3600	
95	Mo	72	1	0.48	0.48	ppb	6.94	3600	
107	Ag	115	1	0.09	0.09	ppb	5.84	3600	
111	Cd	115	1	0.44	0.44	ppb	7.08	3600	
118	Sn	115	1	0.20	0.20	ppb	4.75	3600	
121	Sb	115	1	0.06	0.06	ppb	8.30	3600	
137	Ba	115	1	163.10	163.10	ppb	0.48	3600	
205	Tl	165	1	0.10	0.10	ppb	0.33	3600	
208	Pb	165	1	8.50	8.50	ppb	0.70	3600	
232	Th	165	1	3.79	3.79	ppb	1.70	1000	
238	U	165	1	0.56	0.56	ppb	1.25	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	331711	0.80	398260	83.3	30 - 120	
45	Sc	1	2074378	1.41	2300683	90.2	30 - 120	
72	Ge	1	1223160	1.40	1383338	88.4	30 - 120	
115	In	1	3655152	0.43	4023995	90.8	30 - 120	
165	Ho	1	6775185	0.36	7427449	91.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\245SMPL.D\245SMPL.D#
Date Acquired: Nov 16 2011 11:04 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-d-24-a
Misc Info:
Vial Number: 4407
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.70	0.70	ppb	9.37	3600	
51	V	72	1	68.35	68.35	ppb	1.80	3600	
52	Cr	72	1	42.73	42.73	ppb	1.17	3600	
55	Mn	72	1	787.70	787.70	ppb	1.68	18000	
59	Co	72	1	17.42	17.42	ppb	1.02	3600	
60	Ni	72	1	50.38	50.38	ppb	1.53	3600	
63	Cu	72	1	44.44	44.44	ppb	0.90	3600	
66	Zn	72	1	121.70	121.70	ppb	1.27	3600	
75	As	72	1	15.94	15.94	ppb	1.46	3600	
78	Se	72	1	1.93	1.93	ppb	2.75	3600	
95	Mo	72	1	1.28	1.28	ppb	2.37	3600	
107	Ag	115	1	0.20	0.20	ppb	3.72	3600	
111	Cd	115	1	0.83	0.83	ppb	10.84	3600	
118	Sn	115	1	0.27	0.27	ppb	3.50	3600	
121	Sb	115	1	0.09	0.09	ppb	6.58	3600	
137	Ba	115	1	367.60	367.60	ppb	0.84	3600	
205	Tl	165	1	0.18	0.18	ppb	3.08	3600	
208	Pb	165	1	13.02	13.02	ppb	0.74	3600	
232	Th	165	1	7.09	7.09	ppb	1.20	1000	
238	U	165	1	1.38	1.38	ppb	1.22	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	327211	0.50	398260	82.2	30 - 120	
45	Sc	1	2039931	0.58	2300683	88.7	30 - 120	
72	Ge	1	1191766	1.11	1383338	86.2	30 - 120	
115	In	1	3510957	0.78	4023995	87.3	30 - 120	
165	Ho	1	6726300	0.62	7427449	90.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\246SMPL.D\246SMPL.D#
Date Acquired:	Nov 16 2011 11:07 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-b-25-a
Misc Info:	
Vial Number:	4408
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.68	0.68	ppb	15.09	3600	
51	V	72	1	57.69	57.69	ppb	2.90	3600	
52	Cr	72	1	34.84	34.84	ppb	1.33	3600	
55	Mn	72	1	659.10	659.10	ppb	1.50	18000	
59	Co	72	1	15.19	15.19	ppb	1.06	3600	
60	Ni	72	1	43.58	43.58	ppb	2.13	3600	
63	Cu	72	1	36.27	36.27	ppb	1.31	3600	
66	Zn	72	1	105.60	105.60	ppb	1.32	3600	
75	As	72	1	13.95	13.95	ppb	0.91	3600	
78	Se	72	1	1.77	1.77	ppb	12.92	3600	
95	Mo	72	1	1.03	1.03	ppb	1.65	3600	
107	Ag	115	1	0.19	0.19	ppb	5.91	3600	
111	Cd	115	1	0.61	0.61	ppb	5.56	3600	
118	Sn	115	1	0.30	0.30	ppb	3.39	3600	
121	Sb	115	1	0.09	0.09	ppb	7.09	3600	
137	Ba	115	1	313.60	313.60	ppb	0.39	3600	
205	Tl	165	1	0.16	0.16	ppb	1.04	3600	
208	Pb	165	1	12.44	12.44	ppb	0.43	3600	
232	Th	165	1	6.03	6.03	ppb	0.96	1000	
238	U	165	1	1.05	1.05	ppb	1.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	324908	1.47	398260	81.6	30 - 120	
45	Sc	1	2038647	0.92	2300683	88.6	30 - 120	
72	Ge	1	1207326	1.18	1383338	87.3	30 - 120	
115	In	1	3570550	0.76	4023995	88.7	30 - 120	
165	Ho	1	6776523	0.47	7427449	91.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\247SMPL.D\247SMPL.D#
Date Acquired:	Nov 16 2011 11:10 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-c-26-a
Misc Info:	
Vial Number:	4409
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.50	0.50	ppb	13.93	3600	
51	V	72	1	65.90	65.90	ppb	2.04	3600	
52	Cr	72	1	37.90	37.90	ppb	1.65	3600	
55	Mn	72	1	716.20	716.20	ppb	1.64	18000	
59	Co	72	1	17.17	17.17	ppb	0.56	3600	
60	Ni	72	1	48.43	48.43	ppb	0.61	3600	
63	Cu	72	1	38.13	38.13	ppb	0.79	3600	
66	Zn	72	1	107.00	107.00	ppb	1.32	3600	
75	As	72	1	15.13	15.13	ppb	0.87	3600	
78	Se	72	1	2.32	2.32	ppb	12.89	3600	
95	Mo	72	1	1.00	1.00	ppb	5.00	3600	
107	Ag	115	1	0.15	0.15	ppb	3.06	3600	
111	Cd	115	1	0.64	0.64	ppb	6.50	3600	
118	Sn	115	1	0.29	0.29	ppb	8.00	3600	
121	Sb	115	1	0.09	0.09	ppb	4.72	3600	
137	Ba	115	1	351.10	351.10	ppb	0.83	3600	
205	Tl	165	1	0.15	0.15	ppb	4.56	3600	
208	Pb	165	1	11.93	11.93	ppb	1.41	3600	
232	Th	165	1	6.63	6.63	ppb	1.27	1000	
238	U	165	1	1.17	1.17	ppb	0.34	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	324348	1.14	398260	81.4	30 - 120	
45	Sc	1	2037383	0.40	2300683	88.6	30 - 120	
72	Ge	1	1191889	1.36	1383338	86.2	30 - 120	
115	In	1	3537774	0.37	4023995	87.9	30 - 120	
165	Ho	1	6662809	0.96	7427449	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\248SMPL.D\248SMPL.D#
Date Acquired: Nov 16 2011 11:13 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-d-27-a
Misc Info:
Vial Number: 4410
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.50	0.50	ppb	23.74	3600	
51	V	72	1	56.95	56.95	ppb	1.56	3600	
52	Cr	72	1	34.02	34.02	ppb	1.36	3600	
55	Mn	72	1	480.50	480.50	ppb	1.79	18000	
59	Co	72	1	14.41	14.41	ppb	1.15	3600	
60	Ni	72	1	41.48	41.48	ppb	1.07	3600	
63	Cu	72	1	30.07	30.07	ppb	0.91	3600	
66	Zn	72	1	105.40	105.40	ppb	1.27	3600	
75	As	72	1	11.46	11.46	ppb	1.04	3600	
78	Se	72	1	1.78	1.78	ppb	28.62	3600	
95	Mo	72	1	0.86	0.86	ppb	2.56	3600	
107	Ag	115	1	0.17	0.17	ppb	1.80	3600	
111	Cd	115	1	0.74	0.74	ppb	5.16	3600	
118	Sn	115	1	0.80	0.80	ppb	13.18	3600	
121	Sb	115	1	0.07	0.07	ppb	5.99	3600	
137	Ba	115	1	251.30	251.30	ppb	0.75	3600	
205	Tl	165	1	0.14	0.14	ppb	0.15	3600	
208	Pb	165	1	17.47	17.47	ppb	0.57	3600	
232	Th	165	1	5.31	5.31	ppb	0.11	1000	
238	U	165	1	0.92	0.92	ppb	1.35	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	326030	1.87	398260	81.9	30 - 120	
45	Sc	1	2052394	1.63	2300683	89.2	30 - 120	
72	Ge	1	1206659	1.19	1383338	87.2	30 - 120	
115	In	1	3567778	0.64	4023995	88.7	30 - 120	
165	Ho	1	6756224	0.36	7427449	91.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\249SMPL.D\249SMPL.D#
Date Acquired: Nov 16 2011 11:16 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-a-28-b
Misc Info:
Vial Number: 4411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.58	0.58	ppb	11.01	3600	
51	V	72	1	67.23	67.23	ppb	0.66	3600	
52	Cr	72	1	40.03	40.03	ppb	1.15	3600	
55	Mn	72	1	793.60	793.60	ppb	1.21	18000	
59	Co	72	1	17.76	17.76	ppb	1.42	3600	
60	Ni	72	1	51.18	51.18	ppb	0.43	3600	
63	Cu	72	1	39.92	39.92	ppb	0.98	3600	
66	Zn	72	1	117.80	117.80	ppb	1.06	3600	
75	As	72	1	15.50	15.50	ppb	1.65	3600	
78	Se	72	1	1.83	1.83	ppb	11.22	3600	
95	Mo	72	1	1.19	1.19	ppb	7.21	3600	
107	Ag	115	1	0.15	0.15	ppb	4.64	3600	
111	Cd	115	1	0.83	0.83	ppb	9.88	3600	
118	Sn	115	1	0.26	0.26	ppb	6.21	3600	
121	Sb	115	1	0.10	0.10	ppb	0.93	3600	
137	Ba	115	1	338.20	338.20	ppb	0.35	3600	
205	Tl	165	1	0.17	0.17	ppb	2.13	3600	
208	Pb	165	1	12.27	12.27	ppb	2.14	3600	
232	Th	165	1	6.84	6.84	ppb	1.97	1000	
238	U	165	1	1.28	1.28	ppb	2.48	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	320112	2.19	398260	80.4	30 - 120	
45	Sc	1	2011409	1.08	2300683	87.4	30 - 120	
72	Ge	1	1177234	0.88	1383338	85.1	30 - 120	
115	In	1	3474000	0.72	4023995	86.3	30 - 120	
165	Ho	1	6538001	1.76	7427449	88.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\250_CCV.D\250_CCV.D#
Date Acquired:	Nov 16 2011 11:19 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.82	ppb	3.16	50	103.6	90 - 110	
51	V	72	1	50.27	ppb	1.76	50	100.5	90 - 110	
52	Cr	72	1	51.36	ppb	1.32	50	102.7	90 - 110	
55	Mn	72	1	49.32	ppb	1.76	50	98.6	90 - 110	
59	Co	72	1	52.31	ppb	1.42	50	104.6	90 - 110	
60	Ni	72	1	50.46	ppb	1.93	50	100.9	90 - 110	
63	Cu	72	1	49.51	ppb	2.25	50	99.0	90 - 110	
66	Zn	72	1	50.10	ppb	1.88	50	100.2	90 - 110	
75	As	72	1	50.67	ppb	1.62	50	101.3	90 - 110	
78	Se	72	1	50.95	ppb	2.17	50	101.9	90 - 110	
95	Mo	72	1	50.61	ppb	1.89	50	101.2	90 - 110	
107	Ag	115	1	51.18	ppb	1.15	50	102.4	90 - 110	
111	Cd	115	1	50.47	ppb	0.41	50	100.9	90 - 110	
118	Sn	115	1	49.49	ppb	0.27	50	99.0	90 - 110	
121	Sb	115	1	48.28	ppb	0.28	50	96.6	90 - 110	
137	Ba	115	1	51.54	ppb	0.35	50	103.1	90 - 110	
205	Tl	165	1	52.26	ppb	0.71	50	104.5	90 - 110	
208	Pb	165	1	50.76	ppb	0.92	50	101.5	90 - 110	
232	Th	165	1	52.18	ppb	1.44	50	104.4	90 - 110	
238	U	165	1	51.64	ppb	0.98	50	103.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	334869	0.81	398260	84.1	30 - 120	
45	Sc	1	2060416	0.81	2300683	89.6	30 - 120	
72	Ge	1	1251522	2.11	1383338	90.5	30 - 120	
115	In	1	3740244	0.19	4023995	92.9	30 - 120	
165	Ho	1	6902586	0.62	7427449	92.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\251_CCB.D\251_CCB.D#
Date Acquired: Nov 16 2011 11:22 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.025	ppb	115.03	1.00	
51	V	72	1	0.024	ppb	28.08	1.00	
52	Cr	72	1	-0.001	ppb	536.94	1.00	
55	Mn	72	1	0.010	ppb	113.01	1.00	
59	Co	72	1	0.007	ppb	5.69	1.00	
60	Ni	72	1	0.026	ppb	39.60	1.00	
63	Cu	72	1	0.008	ppb	39.83	1.00	
66	Zn	72	1	0.062	ppb	15.17	1.00	
75	As	72	1	0.006	ppb	160.22	1.00	
78	Se	72	1	0.150	ppb	247.90	1.00	
95	Mo	72	1	0.000	ppb	1024.70	1.00	
107	Ag	115	1	0.010	ppb	7.32	1.00	
111	Cd	115	1	0.008	ppb	34.85	1.00	
118	Sn	115	1	0.025	ppb	14.69	1.00	
121	Sb	115	1	0.014	ppb	21.92	1.00	
137	Ba	115	1	0.018	ppb	28.49	1.00	
205	Tl	165	1	0.009	ppb	13.33	1.00	
208	Pb	165	1	0.008	ppb	14.10	1.00	
232	Th	165	1	0.016	ppb	0.80	1.00	
238	U	165	1	0.010	ppb	8.05	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	345125	1.01	398260	86.7	30 - 120	
45	Sc	1	2147854	0.45	2300683	93.4	30 - 120	
72	Ge	1	1289162	0.67	1383338	93.2	30 - 120	
115	In	1	3785785	0.27	4023995	94.1	30 - 120	
165	Ho	1	6963821	0.66	7427449	93.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\252SMPL.D\252SMPL.D#
Date Acquired: Nov 16 2011 11:25 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 22534-5
Misc Info: RAW TOTAL
Vial Number: 4412
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	173.12	3600	
51	V	72	1	3.58	3.58	ppb	4.41	3600	
52	Cr	72	1	0.17	0.17	ppb	6.36	3600	
55	Mn	72	1	1,408.00	1408.00	ppb	1.73	18000	
59	Co	72	1	1.76	1.76	ppb	0.70	3600	
60	Ni	72	1	6.63	6.63	ppb	0.78	3600	
63	Cu	72	1	0.42	0.42	ppb	2.87	3600	
66	Zn	72	1	5.83	5.83	ppb	3.34	3600	
75	As	72	1	55.03	55.03	ppb	1.76	3600	
78	Se	72	1	0.53	0.53	ppb	79.54	3600	
95	Mo	72	1	1.09	1.09	ppb	2.46	3600	
107	Ag	115	1	0.00	0.00	ppb	23.90	3600	
111	Cd	115	1	0.15	0.15	ppb	9.51	3600	
118	Sn	115	1	0.08	0.08	ppb	27.85	3600	
121	Sb	115	1	0.20	0.20	ppb	7.92	3600	
137	Ba	115	1	398.90	398.90	ppb	2.65	3600	
205	Tl	165	1	0.19	0.19	ppb	47.53	3600	
208	Pb	165	1	0.36	0.36	ppb	11.49	3600	
232	Th	165	1	0.01	0.01	ppb	13.26	1000	
238	U	165	1	1.85	1.85	ppb	1.14	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	324527	0.79	398260	81.5	30 - 120	
45	Sc	1	1942609	0.61	2300683	84.4	30 - 120	
72	Ge	1	1189020	1.56	1383338	86.0	30 - 120	
115	In	1	3399724	0.66	4023995	84.5	30 - 120	
165	Ho	1	6393626	0.34	7427449	86.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\253SMPL.D\253SMPL.D#
Date Acquired:	Nov 16 2011 11:27 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	22534-5
Misc Info:	RAW DISS
Vial Number:	4501
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	49.94	3600	
51	V	72	1	3.37	3.37	ppb	1.68	3600	
52	Cr	72	1	0.18	0.18	ppb	8.44	3600	
55	Mn	72	1	1,410.00	1410.00	ppb	1.13	18000	
59	Co	72	1	1.76	1.76	ppb	2.79	3600	
60	Ni	72	1	5.37	5.37	ppb	0.76	3600	
63	Cu	72	1	0.23	0.23	ppb	4.15	3600	
66	Zn	72	1	4.34	4.34	ppb	2.30	3600	
75	As	72	1	66.03	66.03	ppb	1.21	3600	
78	Se	72	1	0.50	0.50	ppb	24.87	3600	
95	Mo	72	1	1.01	1.01	ppb	6.56	3600	
107	Ag	115	1	0.00	0.00	ppb	1.82	3600	
111	Cd	115	1	0.05	0.05	ppb	25.16	3600	
118	Sn	115	1	0.07	0.07	ppb	16.18	3600	
121	Sb	115	1	0.19	0.19	ppb	0.68	3600	
137	Ba	115	1	378.70	378.70	ppb	1.71	3600	
205	Tl	165	1	0.04	0.04	ppb	37.49	3600	
208	Pb	165	1	0.04	0.04	ppb	53.96	3600	
232	Th	165	1	0.00	0.00	ppb	25.65	1000	
238	U	165	1	1.61	1.61	ppb	0.62	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	328562	0.44	398260	82.5	30 - 120	
45	Sc	1	1964653	1.27	2300683	85.4	30 - 120	
72	Ge	1	1179523	1.41	1383338	85.3	30 - 120	
115	In	1	3421684	1.30	4023995	85.0	30 - 120	
165	Ho	1	6455220	0.60	7427449	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\254_CCV.D\254_CCV.D#
Date Acquired:	Nov 16 2011 11:30 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.75	ppb	1.60	50	103.5	90 - 110	
51	V	72	1	49.99	ppb	2.38	50	100.0	90 - 110	
52	Cr	72	1	51.79	ppb	1.92	50	103.6	90 - 110	
55	Mn	72	1	50.11	ppb	0.76	50	100.2	90 - 110	
59	Co	72	1	51.26	ppb	0.96	50	102.5	90 - 110	
60	Ni	72	1	50.55	ppb	1.77	50	101.1	90 - 110	
63	Cu	72	1	49.79	ppb	1.76	50	99.6	90 - 110	
66	Zn	72	1	50.78	ppb	1.18	50	101.6	90 - 110	
75	As	72	1	51.06	ppb	1.37	50	102.1	90 - 110	
78	Se	72	1	52.07	ppb	1.82	50	104.1	90 - 110	
95	Mo	72	1	50.70	ppb	1.62	50	101.4	90 - 110	
107	Ag	115	1	50.62	ppb	1.19	50	101.2	90 - 110	
111	Cd	115	1	50.77	ppb	0.60	50	101.5	90 - 110	
118	Sn	115	1	49.43	ppb	0.91	50	98.9	90 - 110	
121	Sb	115	1	48.47	ppb	0.77	50	96.9	90 - 110	
137	Ba	115	1	51.31	ppb	1.07	50	102.6	90 - 110	
205	Tl	165	1	51.97	ppb	2.13	50	103.9	90 - 110	
208	Pb	165	1	50.41	ppb	0.67	50	100.8	90 - 110	
232	Th	165	1	52.13	ppb	1.67	50	104.3	90 - 110	
238	U	165	1	51.71	ppb	0.96	50	103.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	341221	0.83	398260	85.7	30 - 120	
45	Sc	1	2051629	1.88	2300683	89.2	30 - 120	
72	Ge	1	1226918	1.45	1383338	88.7	30 - 120	
115	In	1	3686689	0.98	4023995	91.6	30 - 120	
165	Ho	1	6751518	0.69	7427449	90.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\255_CCB.D\255_CCB.D#
Date Acquired: Nov 16 2011 11:33 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.025	ppb	114.65	1.00	
51	V	72	1	0.011	ppb	92.67	1.00	
52	Cr	72	1	0.004	ppb	173.49	1.00	
55	Mn	72	1	0.040	ppb	62.32	1.00	
59	Co	72	1	0.009	ppb	24.76	1.00	
60	Ni	72	1	0.018	ppb	47.80	1.00	
63	Cu	72	1	0.008	ppb	66.45	1.00	
66	Zn	72	1	0.061	ppb	27.30	1.00	
75	As	72	1	0.003	ppb	408.00	1.00	
78	Se	72	1	0.141	ppb	166.19	1.00	
95	Mo	72	1	0.006	ppb	193.83	1.00	
107	Ag	115	1	0.011	ppb	29.40	1.00	
111	Cd	115	1	0.010	ppb	95.08	1.00	
118	Sn	115	1	0.029	ppb	56.03	1.00	
121	Sb	115	1	0.013	ppb	19.36	1.00	
137	Ba	115	1	0.014	ppb	31.01	1.00	
205	Tl	165	1	0.020	ppb	2.75	1.00	
208	Pb	165	1	0.011	ppb	9.09	1.00	
232	Th	165	1	0.026	ppb	4.30	1.00	
238	U	165	1	0.014	ppb	3.27	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	348311	0.17	398260	87.5	30 - 120	
45	Sc	1	2073834	1.87	2300683	90.1	30 - 120	
72	Ge	1	1259727	0.76	1383338	91.1	30 - 120	
115	In	1	3753950	0.13	4023995	93.3	30 - 120	
165	Ho	1	6843054	0.53	7427449	92.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

96706 - 6020 water
96709 - Soil

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

ICP/MS Technical Data Review Checklist

Lab Project ID Number(s): see attached cover sheet   Check Method/SOP Used: 6020/DV-MT-0018   200.8/DV-MT-0002

Review Items	--- Level 1 --- Yes	No	N/A	Level 2	Comments & Samples Affected
Tune					
1. Tune solution analyzed min. of 4 times for 6020 or 5 times for 200.8?	✓			✓	
2. Tune RSD <5%?	✓			✓	
2. Resolution ≤ 0.9 AMU full width at 10% peak height? **NOTE**: This also satisfies 200.8, 1.0 AMU at 5% peak height	✓			✓	
Initial Calibration					
1. Done with a minimum of 3 integrations of a high standard and blank?	✓			✓	
2. ICV/CCV run at beginning of run, 10% frequency, and end of run? Results with 10% of expected value?	✓			✓	
3. ICB/CCB run at beginning of run, 10% frequency, and end of run? Results +/- RL	✓			✓	
4. ICSA/AB analyzed at beginning of run and every 12 hours and results 80- 120% of TV?	✓			✓	
5. RL Std analyzed at beginning of run and results +/- 50% of TV(for AFCEE 4.0, DoD V3 +/- 20% of true value)?	✓			✓	
Client Samples & QC Sample Results					
1. Were all samples within linear range, ≤ 90% of LDR for 200.8?	✓			✓	
2. Dilutions due to target elements?____ Dilutions for other reasons?____		✓		✓	
3. All reported results bracketed by in control QC?	✓			✓	
4. All 6020 internal standards for all analyses 30-120% of intensities in blank or all 200.8 internal standards 60-125%?	✓			✓	
5. Was a 5X serial dilution analyzed for 6020 and, if so, are results ± 10% of original result, if original ≥ 100x MDL?	✓			✓	
6. LCS included in batch and within QC limits?	✓			✓	
7. Method blank included and <1/2RL?	✓			✓	
8. MS and MSD included in batch?	✓			✓	
9. PDS analyzed and recovery 75-125%?	✓			✓	
10. Manual calculations documented properly and checked?	✓			✓	
11. Are non-conformances documented on an NCM?	✓			✓	
12. Is the appropriate raw data included?	✓			✓	
13. Are all results manually entered into LIMS verified? Are all electronic data files archived to the appropriate network locations?	✓			✓	
14. Were special client requirements met?	✓			✓	

1st Level Reviewer: [signature]   Date: 11/17/11

2nd Level Reviewer: [signature]   Date: 11/17/11

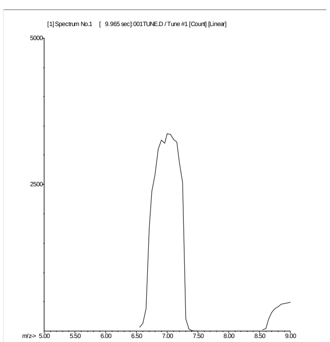
L:\QA\Edit\FORMS\Data Review\ICPMS

Rev. 2, 6/12/08

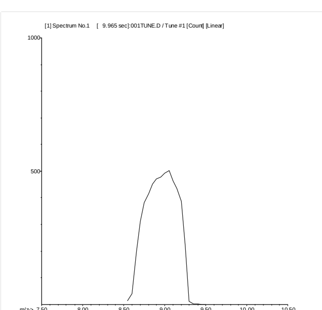
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\001TUNE.D
Date Acquired: Nov 16 2011 11:16 am
Acq. Method: tun_isis.M
Operator: TEL
Sample Name: ITUNE-1109063
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

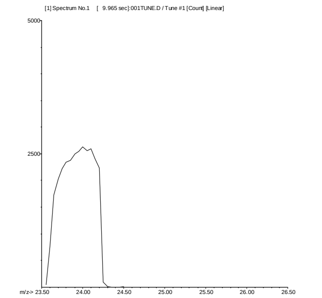
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	**%RSD**	Required	Flag
7 Li	35807	36178	36303	35606	35332	35619	**1.16**	5.00	
9 Be	5270	5176	5298	5342	5222	5313	**1.31**	5.00	RSDfail
24 Mg	29093	28845	29594	28731	29009	29284	**1.20**	5.00	
59 Co	231403	230127	228376	231037	235412	232062	**1.13**	5.00	
115 In	2605731	2609536	2622095	2582683	2598790	2615553	**0.59**	5.00	
208 Pb	199655	198041	200885	199114	200321	199912	**0.56**	5.00	
238 U	363028	362479	368024	355787	366331	362520	**1.30**	5.00	



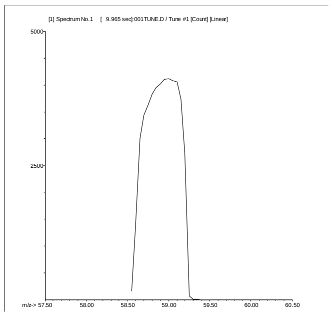
7 Li
Mass Calib.
Actual: 7.00
Required:6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



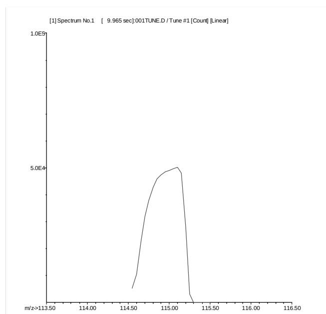
9 Be
Mass Calib.
Actual: 9.00
Required:8.90 - 9.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



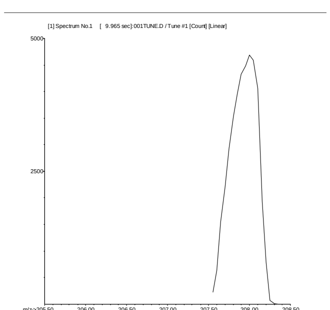
24 Mg
Mass Calib.
Actual: 24.00
Required:23.90 - 24.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



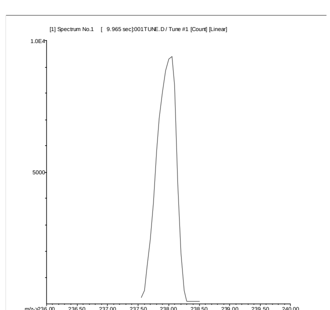
59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



208 Pb
Mass Calib.
Actual: 208.00
Required: 207.90 - 208.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



238 U
Mass Calib.
Actual: 238.00
Required: 237.90 - 238.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:

Tune Result: Fail

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#
Date Acquired:	Nov 16 2011 11:22 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1131044
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:20 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	7	86.60
51	V	72	1	182	70.98
52	Cr	72	1	1880	4.88
55	Mn	72	1	1480	6.45
59	Co	72	1	130	33.53
60	Ni	72	1	143	4.03
63	Cu	72	1	877	9.70
66	Zn	72	1	284	9.86
75	As	72	1	92	20.96
78	Se	72	1	337	23.83
95	Mo	72	1	120	8.33
107	Ag	115	1	33	105.36
111	Cd	115	1	50	32.32
118	Sn	115	1	230	4.35
121	Sb	115	1	119	11.33
137	Ba	115	1	84	36.68
205	Tl	165	1	257	6.49
208	Pb	165	1	953	7.67
232	Th	165	1	220	24.05
238	U	165	1	228	14.44

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	585126	0.54
45	Sc	1	2674809	2.10
72	Ge	1	1557492	1.27
115	In	1	4523827	0.98
165	Ho	1	9084802	0.67

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\004ICAL.D\004ICAL.D#
Date Acquired:	Nov 16 2011 11:25 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1131031
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:23 am
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	84221	0.68
51	V	72	1	2309021	0.86
52	Cr	72	1	2500866	0.36
55	Mn	72	1	2261898	1.20
59	Co	72	1	3513293	1.04
60	Ni	72	1	836641	0.88
63	Cu	72	1	2071435	0.46
66	Zn	72	1	339101	0.46
75	As	72	1	236262	0.25
78	Se	72	1	35243	3.11
95	Mo	72	1	980305	1.38
107	Ag	115	1	3022171	0.93
111	Cd	115	1	485740	0.84
118	Sn	115	1	1305741	0.99
121	Sb	115	1	1348369	1.68
137	Ba	115	1	576687	0.15
205	Tl	165	1	5549042	0.25
208	Pb	165	1	7558414	0.31
232	Th	165	1	7533462	1.74
238	U	165	1	8189341	0.64

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	580489	0.71	585126	99.2	30 - 120	
45	Sc	1	2648130	0.40	2674809	99.0	30 - 120	
72	Ge	1	1560574	0.96	1557492	100.2	30 - 120	
115	In	1	4509053	0.21	4523827	99.7	30 - 120	
165	Ho	1	9301566	0.90	9084802	102.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\005_ICV.D\005_ICV.D#
Date Acquired: Nov 16 2011 11:28 am
Operator: TEL
Sample Name: ICV-1131032
Misc Info:
Vial Number: 2103
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.79	ppb	10.78	40	102.0	90 - 110	
51	V	72	1	42.44	ppb	11.18	40	106.1	90 - 110	
52	Cr	72	1	41.91	ppb	9.42	40	104.8	90 - 110	
55	Mn	72	1	42.79	ppb	10.53	40	107.0	90 - 110	
59	Co	72	1	43.19	ppb	11.66	40	108.0	90 - 110	
60	Ni	72	1	42.52	ppb	10.90	40	106.3	90 - 110	
63	Cu	72	1	41.88	ppb	10.12	40	104.7	90 - 110	
66	Zn	72	1	42.07	ppb	10.49	40	105.2	90 - 110	
75	As	72	1	42.56	ppb	10.20	40	106.4	90 - 110	
78	Se	72	1	41.98	ppb	11.23	40	105.0	90 - 110	
95	Mo	72	1	41.73	ppb	10.21	40	104.3	90 - 110	
107	Ag	115	1	43.85	ppb	14.87	40	109.6	90 - 110	
111	Cd	115	1	43.29	ppb	15.87	40	108.2	90 - 110	
118	Sn	115	1	41.73	ppb	16.34	40	104.3	90 - 110	
121	Sb	115	1	41.11	ppb	16.11	40	102.8	90 - 110	
137	Ba	115	1	42.27	ppb	16.01	40	105.7	90 - 110	
205	Tl	165	1	42.26	ppb	14.94	40	105.7	90 - 110	
208	Pb	165	1	43.49	ppb	15.88	40	108.7	90 - 110	
232	Th	165	1	43.99	ppb	16.72	40	110.0	90 - 110	
238	U	165	1	42.61	ppb	18.10	40	106.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	573780	9.01	585126	98.1	30 - 120	
45	Sc	1	2578247	15.13	2674809	96.4	30 - 120	
72	Ge	1	1515616	9.26	1557492	97.3	30 - 120	
115	In	1	4355276	14.36	4523827	96.3	30 - 120	
165	Ho	1	8864036	14.47	9084802	97.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\006WASH.D\006WASH.D#
Date Acquired:	Nov 16 2011 11:30 am
Operator:	TEL
Sample Name:	LLICV-1131045
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.959	ppb	11.54	1.30	
51	V	72	1	5.227	ppb	1.51	6.50	
52	Cr	72	1	2.143	ppb	2.24	2.60	
55	Mn	72	1	1.102	ppb	2.20	1.30	
59	Co	72	1	1.041	ppb	1.33	1.30	
60	Ni	72	1	2.097	ppb	1.33	2.60	
63	Cu	72	1	2.076	ppb	1.00	2.60	
66	Zn	72	1	10.470	ppb	1.26	13.00	
75	As	72	1	5.223	ppb	1.09	6.50	
78	Se	72	1	5.201	ppb	5.40	6.50	
95	Mo	72	1	2.053	ppb	2.94	2.60	
107	Ag	115	1	5.281	ppb	1.75	6.50	
111	Cd	115	1	1.098	ppb	4.68	1.30	
118	Sn	115	1	10.310	ppb	0.82	13.00	
121	Sb	115	1	2.192	ppb	0.55	2.60	
137	Ba	115	1	1.078	ppb	3.81	1.30	
205	Tl	165	1	1.108	ppb	2.01	1.30	
208	Pb	165	1	1.047	ppb	1.80	1.30	
232	Th	165	1	2.138	ppb	0.19	2.60	
238	U	165	1	1.050	ppb	1.56	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	586680	0.63	585126	100.3	30 - 120	
45	Sc	1	2703909	0.12	2674809	101.1	30 - 120	
72	Ge	1	1561419	1.11	1557492	100.3	30 - 120	
115	In	1	4524013	0.26	4523827	100.0	30 - 120	
165	Ho	1	9287254	1.83	9084802	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\007_ICB.D\007_ICB.D#
Date Acquired: Nov 16 2011 11:33 am
Operator: TEL
Sample Name: ICB-1131044
Misc Info:
Vial Number: 2104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: ICB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.01	ppb	0.00	1.00	
51	V	72	1	0.00	ppb	937.97	1.00	
52	Cr	72	1	0.01	ppb	108.87	1.00	
55	Mn	72	1	-0.01	ppb	52.56	1.00	
59	Co	72	1	0.00	ppb	66.82	1.00	
60	Ni	72	1	0.00	ppb	153.06	1.00	
63	Cu	72	1	0.00	ppb	642.62	1.00	
66	Zn	72	1	-0.01	ppb	129.78	1.00	
75	As	72	1	0.00	ppb	355.62	1.00	
78	Se	72	1	0.16	ppb	105.20	1.00	
95	Mo	72	1	0.00	ppb	350.14	1.00	
107	Ag	115	1	0.00	ppb	73.26	1.00	
111	Cd	115	1	0.00	ppb	206.57	1.00	
118	Sn	115	1	0.04	ppb	18.35	1.00	
121	Sb	115	1	0.05	ppb	14.95	1.00	
137	Ba	115	1	-0.01	ppb	11.15	1.00	
205	Tl	165	1	0.01	ppb	12.06	1.00	
208	Pb	165	1	0.00	ppb	1840.80	1.00	
232	Th	165	1	0.02	ppb	8.52	1.00	
238	U	165	1	0.00	ppb	61.66	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	580572	0.99	585126	99.2	30 - 120	
45	Sc	1	2698536	1.18	2674809	100.9	30 - 120	
72	Ge	1	1589051	1.27	1557492	102.0	30 - 120	
115	In	1	4528663	1.43	4523827	100.1	30 - 120	
165	Ho	1	9115240	0.50	9084802	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

RL STD QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\008RLST.D\008RLST.D#
Date Acquired:	Nov 16 2011 11:36 am
Operator:	TEL
Sample Name:	CRI-1131033
Misc Info:	
Vial Number:	2105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	RLSTD
Total Dil Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1.03	ppb	14.96	1	102.8	80 - 120	
51	V	72	1	1.01	ppb	1.72	1	101.1	80 - 120	
52	Cr	72	1	1.01	ppb	1.66	1	100.6	80 - 120	
55	Mn	72	1	0.97	ppb	3.26	1	97.4	80 - 120	
59	Co	72	1	0.97	ppb	3.54	1	97.5	80 - 120	
60	Ni	72	1	1.02	ppb	1.07	1	101.8	80 - 120	
63	Cu	72	1	1.02	ppb	2.19	1	101.8	80 - 120	
66	Zn	72	1	10.54	ppb	1.33	10	105.4	80 - 120	
75	As	72	1	1.03	ppb	4.07	1	102.9	80 - 120	
78	Se	72	1	1.30	ppb	8.12	1	130.1	80 - 120	Fail
95	Mo	72	1	0.97	ppb	5.28	1	97.1	80 - 120	
107	Ag	115	1	0.98	ppb	4.22	1	98.4	80 - 120	
111	Cd	115	1	1.02	ppb	4.38	1	101.7	80 - 120	
118	Sn	115	1	9.89	ppb	1.60	10	98.9	80 - 120	
121	Sb	115	1	0.99	ppb	0.51	1	98.7	80 - 120	
137	Ba	115	1	1.02	ppb	2.23	1	102.4	80 - 120	
205	Tl	165	1	1.00	ppb	0.75	1	100.2	80 - 120	
208	Pb	165	1	0.99	ppb	0.64	1	98.9	80 - 120	
232	Th	165	1	0.97	ppb	1.73	1	97.2	80 - 120	
238	U	165	1	1.02	ppb	0.38	1	101.7	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	576252	0.76	585126	98.5	30 - 120	
45	Sc	1	2672590	0.24	2674809	99.9	30 - 120	
72	Ge	1	1552131	1.56	1557492	99.7	30 - 120	
115	In	1	4483625	0.28	4523827	99.1	30 - 120	
165	Ho	1	9187657	0.69	9084802	101.1	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

1 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

AFCEE RL QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\009AFCE.D\009AFCE.D#
Date Acquired:	Nov 16 2011 11:39 am
Operator:	TEL
Sample Name:	AFCEE RL-1131038
Misc Info:	
Vial Number:	2106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	AFCEERL
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	0.23	ppb	21.66	0	113.9	80 - 120	
51	V	72	1	0.18	ppb	5.14	0	90.1	80 - 120	
52	Cr	72	1	0.19	ppb	2.46	0	92.3	80 - 120	
55	Mn	72	1	0.22	ppb	7.12	0	113.8	80 - 120	
59	Co	72	1	0.19	ppb	3.31	0	97.5	80 - 120	
60	Ni	72	1	0.22	ppb	10.21	0	105.7	80 - 120	
63	Cu	72	1	0.21	ppb	7.89	0	103.2	80 - 120	
66	Zn	72	1	2.28	ppb	1.12	2	108.2	80 - 120	
75	As	72	1	0.21	ppb	5.42	0	100.1	80 - 120	
78	Se	72	1	0.29	ppb	75.79	0	110.1	80 - 120	
95	Mo	72	1	0.20	ppb	5.02	0	103.7	80 - 120	
107	Ag	115	1	0.21	ppb	3.00	0	107.3	80 - 120	
111	Cd	115	1	0.20	ppb	8.89	0	98.8	80 - 120	
118	Sn	115	1	1.97	ppb	1.32	2	99.5	80 - 120	
121	Sb	115	1	0.21	ppb	3.15	0	106.1	80 - 120	
137	Ba	115	1	0.21	ppb	1.08	0	101.3	80 - 120	
205	Tl	165	1	0.20	ppb	2.79	0	101.9	80 - 120	
208	Pb	165	1	0.20	ppb	0.85	0	100.9	80 - 120	
232	Th	165	1	0.19	ppb	2.54	0	97.9	80 - 120	
238	U	165	1	0.20	ppb	3.22	0	100.0	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	579567	0.56	585126	99.0	30 - 120	
45	Sc	1	2647739	0.91	2674809	99.0	30 - 120	
72	Ge	1	1560012	0.51	1557492	100.2	30 - 120	
115	In	1	4474455	1.01	4523827	98.9	30 - 120	
165	Ho	1	9165338	0.57	9084802	100.9	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\010ICSA.D\010ICSA.D#
Date Acquired:	Nov 16 2011 11:42 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	ICSA-1131040
Misc Info:	
Vial Number:	2108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	ICSA
Dilution Factor:	1.00

QC Summary:

Analytes:	Pass
ISTD:	Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
9	Be	6	1	0.00 ppb	219.35	1.00	
51	V	72	1	0.21 ppb	17.17	1.00	
52	Cr	72	1	1.36 ppb	2.63	1.00	
55	Mn	72	1	0.38 ppb	5.73	1.00	
59	Co	72	1	0.05 ppb	8.81	1.00	
60	Ni	72	1	0.81 ppb	0.65	1.00	
63	Cu	72	1	0.30 ppb	3.34	1.00	
66	Zn	72	1	2.34 ppb	1.45	10.00	
75	As	72	1	0.54 ppb	3.54	1.00	
78	Se	72	1	0.15 ppb	16.06	1.00	
95	Mo	72	1	2064.00 ppb	1.53	2000.00	
107	Ag	115	1	0.06 ppb	3.86	1.00	
111	Cd	115	1	0.62 ppb	20.71	1.00	
118	Sn	115	1	0.14 ppb	13.01	10.00	
121	Sb	115	1	0.29 ppb	2.45	1.00	
137	Ba	115	1	0.16 ppb	6.76	1.00	
205	Tl	165	1	0.05 ppb	20.28	1.00	
208	Pb	165	1	0.14 ppb	4.64	1.00	
232	Th	165	1	0.03 ppb	6.51	1.00	
238	U	165	1	0.00 ppb	329.15	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	537360	2.73	585126	91.8	30 - 120	
45	Sc	1	2311964	0.85	2674809	86.4	30 - 120	
72	Ge	1	1312863	0.39	1557492	84.3	30 - 120	
115	In	1	3770281	1.29	4523827	83.3	30 - 120	
165	Ho	1	7909996	1.34	9084802	87.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\011ICSB.D\011ICSB.D#
Date Acquired: Nov 16 2011 11:45 am
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: ICSAB-1131041
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9	Be	6	1	99.36	1.95	100	99.4	80 - 120	
51	V	72	1	105.70	1.51	100	105.7	80 - 120	
52	Cr	72	1	101.40	0.63	100	101.4	80 - 120	
55	Mn	72	1	98.16	1.55	100	98.2	80 - 120	
59	Co	72	1	98.56	0.74	100	98.6	80 - 120	
60	Ni	72	1	94.67	1.19	100	94.7	80 - 120	
63	Cu	72	1	91.12	0.25	100	91.1	80 - 120	
66	Zn	72	1	99.88	1.17	100	99.9	80 - 120	
75	As	72	1	106.00	0.90	100	106.0	80 - 120	
78	Se	72	1	107.20	3.52	100	107.2	80 - 120	
95	Mo	72	1	2207.00	0.65	2100	105.1	80 - 120	
107	Ag	115	1	89.82	0.61	100	89.8	80 - 120	
111	Cd	115	1	97.97	0.47	100	98.0	80 - 120	
118	Sn	115	1	101.70	0.65	100	101.7	80 - 120	
121	Sb	115	1	105.80	0.35	100	105.8	80 - 120	
137	Ba	115	1	103.70	0.32	100	103.7	80 - 120	
205	Tl	165	1	92.93	0.70	100	92.9	80 - 120	
208	Pb	165	1	92.50	0.93	100	92.5	80 - 120	
232	Th	165	1	101.40	0.09	100	101.4	80 - 120	
238	U	165	1	98.95	1.28	100	99.0	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	562915	1.17	585126	96.2	30 - 120	
45	Sc	1	2301575	0.99	2674809	86.0	30 - 120	
72	Ge	1	1293250	1.19	1557492	83.0	30 - 120	
115	In	1	3816116	0.55	4523827	84.4	30 - 120	
165	Ho	1	8064438	1.03	9084802	88.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\012WASH.D\012WASH.D#
Date Acquired: Nov 16 2011 11:48 am
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.004 ppb	561.13	1.30	
51	V	72	1	0.011 ppb	101.38	6.50	
52	Cr	72	1	0.007 ppb	85.22	2.60	
55	Mn	72	1	0.020 ppb	19.37	1.30	
59	Co	72	1	0.006 ppb	25.88	1.30	
60	Ni	72	1	0.010 ppb	60.93	2.60	
63	Cu	72	1	0.013 ppb	30.10	2.60	
66	Zn	72	1	0.019 ppb	11.22	13.00	
75	As	72	1	0.008 ppb	41.07	6.50	
78	Se	72	1	-0.104 ppb	87.26	6.50	
95	Mo	72	1	0.448 ppb	10.03	2.60	
107	Ag	115	1	0.008 ppb	27.67	6.50	
111	Cd	115	1	0.008 ppb	58.14	1.30	
118	Sn	115	1	0.028 ppb	5.08	13.00	
121	Sb	115	1	0.011 ppb	7.95	2.60	
137	Ba	115	1	0.012 ppb	29.46	1.30	
205	Tl	165	1	0.015 ppb	11.58	1.30	
208	Pb	165	1	0.011 ppb	11.27	1.30	
232	Th	165	1	0.026 ppb	2.39	2.60	
238	U	165	1	0.016 ppb	4.66	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	603722	0.39	585126	103.2	30 - 120	
45	Sc	1	2551236	0.67	2674809	95.4	30 - 120	
72	Ge	1	1523263	0.89	1557492	97.8	30 - 120	
115	In	1	4445809	1.17	4523827	98.3	30 - 120	
165	Ho	1	9006447	0.59	9084802	99.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\013WASH.D\013WASH.D#
Date Acquired: Nov 16 2011 11:51 am
Operator: TEL
Sample Name: ALTSe-1131039
Misc Info:
Vial Number: 2107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	-0.008 ppb	0.00	1.30	
51	V	72	1	0.002 ppb	300.05	6.50	
52	Cr	72	1	0.032 ppb	18.80	2.60	
55	Mn	72	1	0.000 ppb	754.60	1.30	
59	Co	72	1	0.001 ppb	23.97	1.30	
60	Ni	72	1	0.004 ppb	83.59	2.60	
63	Cu	72	1	0.019 ppb	35.22	2.60	
66	Zn	72	1	-0.005 ppb	171.09	13.00	
75	As	72	1	0.002 ppb	380.54	6.50	
78	Se	72	1	1.999 ppb	9.04	6.50	
95	Mo	72	1	0.103 ppb	10.71	2.60	
107	Ag	115	1	0.003 ppb	22.62	6.50	
111	Cd	115	1	0.003 ppb	22.13	1.30	
118	Sn	115	1	0.069 ppb	11.94	13.00	
121	Sb	115	1	0.002 ppb	57.21	2.60	
137	Ba	115	1	-0.003 ppb	81.32	1.30	
205	Tl	165	1	0.003 ppb	41.03	1.30	
208	Pb	165	1	-0.001 ppb	131.55	1.30	
232	Th	165	1	0.007 ppb	16.59	2.60	
238	U	165	1	0.002 ppb	22.76	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	582318	0.46	585126	99.5	30 - 120	
45	Sc	1	2663477	1.02	2674809	99.6	30 - 120	
72	Ge	1	1563007	1.21	1557492	100.4	30 - 120	
115	In	1	4507206	2.20	4523827	99.6	30 - 120	
165	Ho	1	9178357	0.72	9084802	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Linear Dynamic Range Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\014_LR.D\014_LR.D#
Date Acquired:	Nov 16 2011 11:54 am
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	LRA-1131042
Misc Info:	
Vial Number:	2110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	LR
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1029.00	ppb	0.66	1000	102.9	90 - 110	
51	V	72	1	955.70	ppb	1.90	1000	95.6	90 - 110	
52	Cr	72	1	961.20	ppb	1.45	1000	96.1	90 - 110	
55	Mn	72	1	941.90	ppb	0.54	1000	94.2	90 - 110	
59	Co	72	1	968.10	ppb	0.90	1000	96.8	90 - 110	
60	Ni	72	1	982.80	ppb	1.57	1000	98.3	90 - 110	
63	Cu	72	1	944.50	ppb	1.18	1000	94.5	90 - 110	
66	Zn	72	1	1005.00	ppb	0.73	1000	100.5	90 - 110	
75	As	72	1	1017.00	ppb	1.12	1000	101.7	90 - 110	
78	Se	72	1	1006.00	ppb	0.73	1000	100.6	90 - 110	
95	Mo	72	1	977.80	ppb	1.13	1000	97.8	90 - 110	
107	Ag	115	1	975.80	ppb	0.83	1000	97.6	90 - 110	
111	Cd	115	1	992.20	ppb	0.87	1000	99.2	90 - 110	
118	Sn	115	1	966.10	ppb	1.58	1000	96.6	90 - 110	
121	Sb	115	1	968.00	ppb	0.44	1000	96.8	90 - 110	
137	Ba	115	1	997.70	ppb	0.52	1000	99.8	90 - 110	
205	Tl	165	1	993.90	ppb	0.41	1000	99.4	90 - 110	
208	Pb	165	1	977.40	ppb	0.94	1000	97.7	90 - 110	
232	Th	165	1	1014.00	ppb	1.71	1000	101.4	90 - 110	
238	U	165	1	1010.00	ppb	1.82	1000	101.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	553773	0.49	585126	94.6	30 - 120	
45	Sc	1	2546200	0.83	2674809	95.2	30 - 120	
72	Ge	1	1506979	0.88	1557492	96.8	30 - 120	
115	In	1	4409432	0.72	4523827	97.5	30 - 120	
165	Ho	1	9017149	1.16	9084802	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\015WASH.D\015WASH.D#
Date Acquired:	Nov 16 2011 11:56 am
Operator:	TEL
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.108 ppb	33.40	1.30	
51	V	72	1	0.058 ppb	23.24	6.50	
52	Cr	72	1	0.064 ppb	19.78	2.60	
55	Mn	72	1	0.079 ppb	19.46	1.30	
59	Co	72	1	0.075 ppb	12.68	1.30	
60	Ni	72	1	0.093 ppb	18.22	2.60	
63	Cu	72	1	0.077 ppb	10.47	2.60	
66	Zn	72	1	0.097 ppb	12.28	13.00	
75	As	72	1	0.091 ppb	1.44	6.50	
78	Se	72	1	0.155 ppb	55.31	6.50	
95	Mo	72	1	0.248 ppb	4.09	2.60	
107	Ag	115	1	0.097 ppb	5.63	6.50	
111	Cd	115	1	0.088 ppb	12.33	1.30	
118	Sn	115	1	0.410 ppb	10.08	13.00	
121	Sb	115	1	0.171 ppb	4.76	2.60	
137	Ba	115	1	0.074 ppb	12.69	1.30	
205	Tl	165	1	0.113 ppb	3.81	1.30	
208	Pb	165	1	0.082 ppb	3.52	1.30	
232	Th	165	1	0.149 ppb	4.13	2.60	
238	U	165	1	0.138 ppb	6.03	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	554384	0.94	585126	94.7	30 - 120	
45	Sc	1	2578165	1.81	2674809	96.4	30 - 120	
72	Ge	1	1531376	1.06	1557492	98.3	30 - 120	
115	In	1	4417204	0.48	4523827	97.6	30 - 120	
165	Ho	1	8996200	0.95	9084802	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\016_CCV.D\016_CCV.D#
Date Acquired:	Nov 16 2011 11:59 am
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.09	ppb	1.62	50	100.2	90 - 110	
51	V	72	1	51.51	ppb	1.25	50	103.0	90 - 110	
52	Cr	72	1	50.86	ppb	1.49	50	101.7	90 - 110	
55	Mn	72	1	50.13	ppb	0.37	50	100.3	90 - 110	
59	Co	72	1	51.11	ppb	0.69	50	102.2	90 - 110	
60	Ni	72	1	50.33	ppb	0.86	50	100.7	90 - 110	
63	Cu	72	1	50.53	ppb	0.72	50	101.1	90 - 110	
66	Zn	72	1	50.41	ppb	0.81	50	100.8	90 - 110	
75	As	72	1	50.21	ppb	1.45	50	100.4	90 - 110	
78	Se	72	1	51.15	ppb	3.27	50	102.3	90 - 110	
95	Mo	72	1	49.61	ppb	1.11	50	99.2	90 - 110	
107	Ag	115	1	50.29	ppb	1.24	50	100.6	90 - 110	
111	Cd	115	1	49.39	ppb	0.59	50	98.8	90 - 110	
118	Sn	115	1	48.01	ppb	0.36	50	96.0	90 - 110	
121	Sb	115	1	48.21	ppb	0.82	50	96.4	90 - 110	
137	Ba	115	1	49.84	ppb	1.46	50	99.7	90 - 110	
205	Tl	165	1	51.45	ppb	0.82	50	102.9	90 - 110	
208	Pb	165	1	50.80	ppb	0.33	50	101.6	90 - 110	
232	Th	165	1	51.54	ppb	0.37	50	103.1	90 - 110	
238	U	165	1	51.60	ppb	1.06	50	103.2	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	567031	1.57	585126	96.9	30 - 120	
45	Sc	1	2609732	0.73	2674809	97.6	30 - 120	
72	Ge	1	1524725	1.26	1557492	97.9	30 - 120	
115	In	1	4509412	0.46	4523827	99.7	30 - 120	
165	Ho	1	9021546	0.46	9084802	99.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\017_CCB.D\017_CCB.D#
Date Acquired:	Nov 16 2011 12:02 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.013	ppb	146.83	1.00	
51	V	72	1	0.015	ppb	76.35	1.00	
52	Cr	72	1	0.001	ppb	145.92	1.00	
55	Mn	72	1	0.026	ppb	6.93	1.00	
59	Co	72	1	0.012	ppb	24.12	1.00	
60	Ni	72	1	0.014	ppb	81.61	1.00	
63	Cu	72	1	0.016	ppb	36.75	1.00	
66	Zn	72	1	0.031	ppb	24.82	1.00	
75	As	72	1	0.015	ppb	9.29	1.00	
78	Se	72	1	0.068	ppb	101.31	1.00	
95	Mo	72	1	0.052	ppb	26.46	1.00	
107	Ag	115	1	0.018	ppb	14.54	1.00	
111	Cd	115	1	0.008	ppb	98.07	1.00	
118	Sn	115	1	0.091	ppb	24.65	1.00	
121	Sb	115	1	0.028	ppb	7.05	1.00	
137	Ba	115	1	0.016	ppb	45.48	1.00	
205	Tl	165	1	0.024	ppb	4.79	1.00	
208	Pb	165	1	0.015	ppb	9.65	1.00	
232	Th	165	1	0.034	ppb	13.71	1.00	
238	U	165	1	0.020	ppb	8.05	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551938	1.05	585126	94.3	30 - 120	
45	Sc	1	2589157	0.41	2674809	96.8	30 - 120	
72	Ge	1	1528907	1.44	1557492	98.2	30 - 120	
115	In	1	4440250	0.80	4523827	98.2	30 - 120	
165	Ho	1	8984795	1.60	9084802	98.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\018WASH.D\018WASH.D#
Date Acquired:	Nov 16 2011 12:05 pm
Operator:	TEL
Sample Name:	LLICV-1131923
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.090 ppb	3.96	1.30	
51	V	72	1	5.078 ppb	1.50	6.50	
52	Cr	72	1	2.088 ppb	1.00	2.60	
55	Mn	72	1	1.064 ppb	3.63	1.30	
59	Co	72	1	1.043 ppb	1.57	1.30	
60	Ni	72	1	2.119 ppb	1.23	2.60	
63	Cu	72	1	2.028 ppb	2.78	2.60	
66	Zn	72	1	10.370 ppb	1.02	13.00	
75	As	72	1	5.195 ppb	2.95	6.50	
78	Se	72	1	5.000 ppb	6.64	6.50	
95	Mo	72	1	2.118 ppb	0.87	2.60	
107	Ag	115	1	5.208 ppb	0.61	6.50	
111	Cd	115	1	1.093 ppb	3.14	1.30	
118	Sn	115	1	10.250 ppb	0.87	13.00	
121	Sb	115	1	2.002 ppb	1.90	2.60	
137	Ba	115	1	1.056 ppb	1.29	1.30	
205	Tl	165	1	1.086 ppb	0.23	1.30	
208	Pb	165	1	1.058 ppb	0.22	1.30	
232	Th	165	1	2.163 ppb	1.93	2.60	
238	U	165	1	1.064 ppb	1.86	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	565025	0.28	585126	96.6	30 - 120	
45	Sc	1	2657342	1.39	2674809	99.3	30 - 120	
72	Ge	1	1536448	0.94	1557492	98.6	30 - 120	
115	In	1	4502652	0.31	4523827	99.5	30 - 120	
165	Ho	1	8996214	0.19	9084802	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\019_BLK.D\019_BLK.D#
Date Acquired: Nov 16 2011 12:08 pm
Operator: TEL
Sample Name: mb 280-94950/1-a
Misc Info: BLANK 94950 DoD4/6020A
Vial Number: 2201
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.004 ppb	487.53	2.00	
51	V	72	1	0.017 ppb	61.37	2.00	
52	Cr	72	1	0.036 ppb	23.93	2.00	
55	Mn	72	1	0.027 ppb	33.19	2.00	
59	Co	72	1	0.005 ppb	43.06	2.00	
60	Ni	72	1	0.036 ppb	20.36	2.00	
63	Cu	72	1	0.047 ppb	13.05	2.00	
66	Zn	72	1	1.041 ppb	3.84	2.00	
75	As	72	1	0.004 ppb	187.85	2.00	
78	Se	72	1	0.113 ppb	160.32	2.00	
95	Mo	72	1	0.025 ppb	12.08	2.00	
107	Ag	115	1	0.005 ppb	38.57	2.00	
111	Cd	115	1	0.004 ppb	70.54	2.00	
118	Sn	115	1	0.085 ppb	18.61	2.00	
121	Sb	115	1	0.007 ppb	43.32	2.00	
137	Ba	115	1	0.008 ppb	67.87	2.00	
205	Tl	165	1	0.008 ppb	29.54	2.00	
208	Pb	165	1	0.006 ppb	11.98	2.00	
232	Th	165	1	0.017 ppb	18.50	2.00	
238	U	165	1	0.006 ppb	18.60	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	566906	0.21	585126	96.9	30 - 120	
45	Sc	1	2651513	0.57	2674809	99.1	30 - 120	
72	Ge	1	1535043	0.80	1557492	98.6	30 - 120	
115	In	1	4491141	1.24	4523827	99.3	30 - 120	
165	Ho	1	9147636	1.30	9084802	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\020_LCS.D\020_LCS.D#
Date Acquired:	Nov 16 2011 12:11 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-94950/2-a
Misc Info:	LCS
Vial Number:	2202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	44.36	5.58	40	110.9	80 - 120	
51	V	72	1	46.06	5.65	40	115.2	80 - 120	
52	Cr	72	1	45.23	4.93	40	113.1	80 - 120	
55	Mn	72	1	44.61	7.09	40	111.5	80 - 120	
59	Co	72	1	45.57	7.91	40	113.9	80 - 120	
60	Ni	72	1	44.65	6.63	40	111.6	80 - 120	
63	Cu	72	1	44.56	6.68	40	111.4	80 - 120	
66	Zn	72	1	46.00	6.82	40	115.0	80 - 120	
75	As	72	1	45.44	5.77	40	113.6	80 - 120	
78	Se	72	1	46.87	6.51	40	117.2	80 - 120	
95	Mo	72	1	43.74	6.05	40	109.4	80 - 120	
107	Ag	115	1	46.22	7.78	40	115.6	80 - 120	
111	Cd	115	1	45.57	8.21	40	113.9	80 - 120	
118	Sn	115	1	44.16	7.19	40	110.4	80 - 120	
121	Sb	115	1	44.00	7.21	40	110.0	80 - 120	
137	Ba	115	1	45.55	7.87	40	113.9	80 - 120	
205	Tl	165	1	46.31	6.28	40	115.8	80 - 120	
208	Pb	165	1	45.24	7.26	40	113.1	80 - 120	
232	Th	165	1	45.72	6.51	40	114.3	80 - 120	
238	U	165	1	45.90	6.93	40	114.8	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	548309	4.95	585126	93.7	30 - 120	
45	Sc	1	2540589	6.72	2674809	95.0	30 - 120	
72	Ge	1	1472347	5.89	1557492	94.5	30 - 120	
115	In	1	4208586	6.96	4523827	93.0	30 - 120	
165	Ho	1	8579495	6.22	9084802	94.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\021AREF.D\021AREF.D#
Date Acquired:	Nov 16 2011 12:14 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-c-1-a
Misc Info:	
Vial Number:	2203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.79	0.79	ppb	10.06	3600	
51	V	72	1	0.06	0.06	ppb	4.17	3600	
52	Cr	72	1	0.81	0.81	ppb	1.63	3600	
55	Mn	72	1	971.10	971.10	ppb	2.51	18000	
59	Co	72	1	9.64	9.64	ppb	2.29	3600	
60	Ni	72	1	11.59	11.59	ppb	1.90	3600	
63	Cu	72	1	1.55	1.55	ppb	2.47	3600	
66	Zn	72	1	7.40	7.40	ppb	1.08	3600	
75	As	72	1	0.69	0.69	ppb	3.38	3600	
78	Se	72	1	1.21	1.21	ppb	23.47	3600	
95	Mo	72	1	0.15	0.15	ppb	1.44	3600	
107	Ag	115	1	0.01	0.01	ppb	10.62	3600	
111	Cd	115	1	0.38	0.38	ppb	3.90	3600	
118	Sn	115	1	0.13	0.13	ppb	8.65	3600	
121	Sb	115	1	0.06	0.06	ppb	7.71	3600	
137	Ba	115	1	87.77	87.77	ppb	1.66	3600	
205	Tl	165	1	1.03	1.03	ppb	2.16	3600	
208	Pb	165	1	0.12	0.12	ppb	2.76	3600	
232	Th	165	1	0.04	0.04	ppb	11.51	1000	
238	U	165	1	0.04	0.04	ppb	3.71	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552737	1.48	585126	94.5	30 - 120	
45	Sc	1	2620424	2.98	2674809	98.0	30 - 120	
72	Ge	1	1496383	1.14	1557492	96.1	30 - 120	
115	In	1	4320723	1.16	4523827	95.5	30 - 120	
165	Ho	1	8872504	1.61	9084802	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\022SDIL.D\022SDIL.D#
Date Acquired: Nov 16 2011 12:16 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-1-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\021AREF.D\021AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	0.15	ppb	6.18	0.16	92.3	90 - 110	
51 V	72	1	0.03	ppb	38.18	0.01	212.4	90 - 110	
52 Cr	72	1	0.18	ppb	2.73	0.16	108.6	90 - 110	
55 Mn	72	1	197.30	ppb	2.27	194.22	101.6	90 - 110	
59 Co	72	1	1.96	ppb	3.03	1.93	101.9	90 - 110	
60 Ni	72	1	2.32	ppb	1.45	2.32	100.1	90 - 110	
63 Cu	72	1	0.32	ppb	2.26	0.31	104.9	90 - 110	
66 Zn	72	1	1.69	ppb	2.73	1.48	113.9	90 - 110	
75 As	72	1	0.13	ppb	13.14	0.14	97.3	90 - 110	
78 Se	72	1	0.38	ppb	48.39	0.24	156.0	90 - 110	
95 Mo	72	1	0.05	ppb	5.89	0.03	157.5	90 - 110	
107 Ag	115	1	0.01	ppb	43.54	0.00	270.2	90 - 110	
111 Cd	115	1	0.09	ppb	9.61	0.08	117.9	90 - 110	
118 Sn	115	1	0.05	ppb	7.73	0.03	202.9	90 - 110	
121 Sb	115	1	0.02	ppb	11.15	0.01	156.9	90 - 110	
137 Ba	115	1	17.47	ppb	1.81	17.55	99.5	90 - 110	
205 Tl	165	1	0.22	ppb	3.12	0.21	106.6	90 - 110	
208 Pb	165	1	0.03	ppb	4.69	0.02	131.9	90 - 110	
232 Th	165	1	0.01	ppb	24.96	0.01	172.9	90 - 110	
238 U	165	1	0.01	ppb	4.10	0.01	169.2	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	568413	1.58	585126	97.1	30 - 120	
45 Sc	1	2697272	2.41	2674809	100.8	30 - 120	
72 Ge	1	1564133	1.52	1557492	100.4	30 - 120	
115 In	1	4487235	1.51	4523827	99.2	30 - 120	
165 Ho	1	9139119	2.68	9084802	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\023PDS.D\023PDS.D#
Date Acquired: Nov 16 2011 12:19 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-1-a PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 2205
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	208.30	0.79	ppb	2.37	200	103.7	75 - 125	
51 V	72	1	196.60	0.06	ppb	1.09	200	98.3	75 - 125	
52 Cr	72	1	194.00	0.81	ppb	1.62	200	96.6	75 - 125	
55 Mn	72	1	1134.00	971.10	ppb	2.63	200	96.8	75 - 125	
59 Co	72	1	200.60	9.64	ppb	1.94	200	95.7	75 - 125	
60 Ni	72	1	209.10	11.59	ppb	3.40	200	98.8	75 - 125	
63 Cu	72	1	192.00	1.55	ppb	1.85	200	95.3	75 - 125	
66 Zn	72	1	204.30	7.40	ppb	1.56	200	98.5	75 - 125	
75 As	72	1	205.40	0.69	ppb	1.66	200	102.3	75 - 125	
78 Se	72	1	204.20	1.21	ppb	1.79	200	101.5	75 - 125	
95 Mo	72	1	198.90	0.15	ppb	1.93	200	99.4	75 - 125	
107 Ag	115	1	49.37	0.01	ppb	2.26	50	98.7	75 - 125	
111 Cd	115	1	205.90	0.38	ppb	2.36	200	102.8	75 - 125	
118 Sn	115	1	200.50	0.13	ppb	2.95	200	100.2	75 - 125	
121 Sb	115	1	204.10	0.06	ppb	2.60	200	102.0	75 - 125	
137 Ba	115	1	300.00	87.77	ppb	3.43	200	104.2	75 - 125	
205 Tl	165	1	194.50	1.03	ppb	3.15	200	96.8	75 - 125	
208 Pb	165	1	192.70	0.12	ppb	2.62	200	96.3	75 - 125	
232 Th	165	1	0.07	0.04	ppb	7.82	200	0.0	75 - 125	
238 U	165	1	201.10	0.04	ppb	2.33	200	100.5	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	556108	2.54	585126	95.0	30 - 120	
45 Sc	1	2574951	2.06	2674809	96.3	30 - 120	
72 Ge	1	1510124	1.18	1557492	97.0	30 - 120	
115 In	1	4245885	2.09	4523827	93.9	30 - 120	
165 Ho	1	8781730	2.17	9084802	96.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\024_MS.D\024_MS.D#
Date Acquired: Nov 16 2011 12:22 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-1-b ms
Misc Info: MATRIX SPIKE
Vial Number: 2206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: MS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	43.78	0.79	ppb	0.30	40	107.3	50 - 150	
51 V	72	1	43.81	0.06	ppb	2.25	40	109.4	50 - 150	
52 Cr	72	1	42.83	0.81	ppb	0.66	40	105.0	50 - 150	
55 Mn	72	1	997.60	971.10	ppb	1.33	40	98.7	50 - 150	
59 Co	72	1	52.32	9.64	ppb	1.58	40	105.4	50 - 150	
60 Ni	72	1	52.55	11.59	ppb	0.68	40	101.9	50 - 150	
63 Cu	72	1	42.19	1.55	ppb	1.52	40	101.6	50 - 150	
66 Zn	72	1	49.37	7.40	ppb	1.47	40	104.2	50 - 150	
75 As	72	1	44.29	0.69	ppb	1.64	40	108.9	50 - 150	
78 Se	72	1	45.00	1.21	ppb	3.91	40	109.2	50 - 150	
95 Mo	72	1	42.09	0.15	ppb	0.94	40	104.8	50 - 150	
107 Ag	115	1	41.78	0.01	ppb	0.41	40	104.4	50 - 150	
111 Cd	115	1	43.30	0.38	ppb	0.93	40	107.2	50 - 150	
118 Sn	115	1	41.84	0.13	ppb	0.40	40	104.3	50 - 150	
121 Sb	115	1	42.33	0.06	ppb	0.37	40	105.7	50 - 150	
137 Ba	115	1	130.50	87.77	ppb	0.18	40	102.1	50 - 150	
205 Tl	165	1	42.76	1.03	ppb	1.28	40	104.2	50 - 150	
208 Pb	165	1	40.90	0.12	ppb	1.16	40	101.9	50 - 150	
232 Th	165	1	43.28	0.04	ppb	1.85	40	108.1	50 - 150	
238 U	165	1	43.02	0.04	ppb	1.90	40	107.4	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	560151	0.81	585126	95.7	30 - 120	
45 Sc	1	2670156	0.82	2674809	99.8	30 - 120	
72 Ge	1	1529815	1.47	1557492	98.2	30 - 120	
115 In	1	4316620	0.60	4523827	95.4	30 - 120	
165 Ho	1	8957389	1.22	9084802	98.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\025_MSD.D\025_MSD.D#
Date Acquired: Nov 16 2011 12:25 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-1-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 2207
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\024_MS.D\024_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	45.49	ppb	2.77	43.78	3.83	20	
51	V	72	1	44.55	ppb	0.83	43.81	1.67	20	
52	Cr	72	1	43.91	ppb	0.64	42.83	2.49	20	
55	Mn	72	1	992.40	ppb	0.92	997.60	0.52	20	
59	Co	72	1	52.64	ppb	1.32	52.32	0.61	20	
60	Ni	72	1	52.62	ppb	1.21	52.55	0.13	20	
63	Cu	72	1	42.32	ppb	1.06	42.19	0.31	20	
66	Zn	72	1	49.23	ppb	1.21	49.37	0.28	20	
75	As	72	1	44.48	ppb	1.62	44.29	0.43	20	
78	Se	72	1	46.20	ppb	3.36	45.00	2.63	20	
95	Mo	72	1	42.55	ppb	1.50	42.09	1.09	20	
107	Ag	115	1	41.88	ppb	0.43	41.78	0.24	20	
111	Cd	115	1	43.60	ppb	0.72	43.30	0.69	20	
118	Sn	115	1	42.20	ppb	1.42	41.84	0.86	20	
121	Sb	115	1	42.42	ppb	0.66	42.33	0.21	20	
137	Ba	115	1	131.00	ppb	1.04	130.50	0.38	20	
205	Tl	165	1	43.14	ppb	1.03	42.76	0.88	20	
208	Pb	165	1	41.28	ppb	0.93	40.90	0.92	20	
232	Th	165	1	43.18	ppb	1.07	43.28	0.23	20	
238	U	165	1	43.22	ppb	1.64	43.02	0.46	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	566218	1.01	585126	96.8	30 - 120	
45	Sc	1	2662732	1.24	2674809	99.5	30 - 120	
72	Ge	1	1531735	1.57	1557492	98.3	30 - 120	
115	In	1	4327039	1.19	4523827	95.6	30 - 120	
165	Ho	1	8921901	1.32	9084802	98.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\026SMPL.D\026SMPL.D#
Date Acquired: Nov 16 2011 12:28 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-2-a
Misc Info:
Vial Number: 2208
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.07	1.07	ppb	16.96	3600	
51	V	72	1	0.04	0.04	ppb	46.31	3600	
52	Cr	72	1	0.69	0.69	ppb	2.81	3600	
55	Mn	72	1	726.80	726.80	ppb	0.63	18000	
59	Co	72	1	6.70	6.70	ppb	2.00	3600	
60	Ni	72	1	9.01	9.01	ppb	2.71	3600	
63	Cu	72	1	0.99	0.99	ppb	1.70	3600	
66	Zn	72	1	4.33	4.33	ppb	1.25	3600	
75	As	72	1	0.63	0.63	ppb	0.45	3600	
78	Se	72	1	1.05	1.05	ppb	12.97	3600	
95	Mo	72	1	0.13	0.13	ppb	4.06	3600	
107	Ag	115	1	0.01	0.01	ppb	15.11	3600	
111	Cd	115	1	0.36	0.36	ppb	10.01	3600	
118	Sn	115	1	0.11	0.11	ppb	5.46	3600	
121	Sb	115	1	0.05	0.05	ppb	12.24	3600	
137	Ba	115	1	82.86	82.86	ppb	0.90	3600	
205	Tl	165	1	0.95	0.95	ppb	1.03	3600	
208	Pb	165	1	0.10	0.10	ppb	4.15	3600	
232	Th	165	1	0.04	0.04	ppb	10.27	1000	
238	U	165	1	0.08	0.08	ppb	2.63	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	564440	1.18	585126	96.5	30 - 120	
45	Sc	1	2651921	2.01	2674809	99.1	30 - 120	
72	Ge	1	1558763	1.78	1557492	100.1	30 - 120	
115	In	1	4343198	0.33	4523827	96.0	30 - 120	
165	Ho	1	8959426	0.26	9084802	98.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\027SMPL.D\027SMPL.D#
Date Acquired:	Nov 16 2011 12:31 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-b-3-a
Misc Info:	
Vial Number:	2209
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.06	0.06	ppb	49.29	3600	
51	V	72	1	0.02	0.02	ppb	70.40	3600	
52	Cr	72	1	0.13	0.13	ppb	0.66	3600	
55	Mn	72	1	574.50	574.50	ppb	0.84	18000	
59	Co	72	1	5.09	5.09	ppb	1.59	3600	
60	Ni	72	1	7.40	7.40	ppb	3.19	3600	
63	Cu	72	1	0.27	0.27	ppb	2.00	3600	
66	Zn	72	1	5.78	5.78	ppb	0.52	3600	
75	As	72	1	0.16	0.16	ppb	71.89	3600	
78	Se	72	1	0.22	0.22	ppb	28.90	3600	
95	Mo	72	1	0.42	0.42	ppb	9.73	3600	
107	Ag	115	1	0.00	0.00	ppb	29.09	3600	
111	Cd	115	1	0.50	0.50	ppb	3.36	3600	
118	Sn	115	1	0.11	0.11	ppb	8.45	3600	
121	Sb	115	1	0.03	0.03	ppb	7.69	3600	
137	Ba	115	1	23.48	23.48	ppb	0.71	3600	
205	Tl	165	1	0.07	0.07	ppb	6.11	3600	
208	Pb	165	1	0.05	0.05	ppb	2.53	3600	
232	Th	165	1	0.01	0.01	ppb	13.78	1000	
238	U	165	1	0.01	0.01	ppb	7.46	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	594965	0.84	585126	101.7	30 - 120	
45	Sc	1	2794427	0.88	2674809	104.5	30 - 120	
72	Ge	1	1606625	1.65	1557492	103.2	30 - 120	
115	In	1	4566930	1.32	4523827	101.0	30 - 120	
165	Ho	1	9276669	0.68	9084802	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\028_CCV.D\028_CCV.D#
Date Acquired:	Nov 16 2011 12:34 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.04	ppb	1.52	50	100.1	90 - 110	
51	V	72	1	51.67	ppb	2.58	50	103.3	90 - 110	
52	Cr	72	1	51.08	ppb	2.27	50	102.2	90 - 110	
55	Mn	72	1	50.53	ppb	1.73	50	101.1	90 - 110	
59	Co	72	1	51.17	ppb	1.17	50	102.3	90 - 110	
60	Ni	72	1	50.53	ppb	0.70	50	101.1	90 - 110	
63	Cu	72	1	50.63	ppb	1.12	50	101.3	90 - 110	
66	Zn	72	1	50.26	ppb	1.28	50	100.5	90 - 110	
75	As	72	1	50.48	ppb	1.31	50	101.0	90 - 110	
78	Se	72	1	51.03	ppb	0.97	50	102.1	90 - 110	
95	Mo	72	1	49.00	ppb	1.24	50	98.0	90 - 110	
107	Ag	115	1	51.13	ppb	1.09	50	102.3	90 - 110	
111	Cd	115	1	50.45	ppb	0.26	50	100.9	90 - 110	
118	Sn	115	1	48.63	ppb	0.41	50	97.3	90 - 110	
121	Sb	115	1	48.72	ppb	0.36	50	97.4	90 - 110	
137	Ba	115	1	50.68	ppb	0.73	50	101.4	90 - 110	
205	Tl	165	1	50.59	ppb	0.31	50	101.2	90 - 110	
208	Pb	165	1	49.72	ppb	1.21	50	99.4	90 - 110	
232	Th	165	1	50.41	ppb	1.74	50	100.8	90 - 110	
238	U	165	1	50.28	ppb	0.96	50	100.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	592582	1.48	585126	101.3	30 - 120	
45	Sc	1	2754380	1.93	2674809	103.0	30 - 120	
72	Ge	1	1596338	1.65	1557492	102.5	30 - 120	
115	In	1	4581722	0.56	4523827	101.3	30 - 120	
165	Ho	1	9249795	1.08	9084802	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\029_CCB.D\029_CCB.D#
Date Acquired:	Nov 16 2011 12:37 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.008	ppb	88.25	1.00	
51	V	72	1	0.005	ppb	257.40	1.00	
52	Cr	72	1	-0.002	ppb	249.24	1.00	
55	Mn	72	1	0.070	ppb	15.75	1.00	
59	Co	72	1	0.010	ppb	12.10	1.00	
60	Ni	72	1	0.012	ppb	48.19	1.00	
63	Cu	72	1	0.014	ppb	17.31	1.00	
66	Zn	72	1	0.015	ppb	29.30	1.00	
75	As	72	1	0.019	ppb	29.65	1.00	
78	Se	72	1	0.231	ppb	12.16	1.00	
95	Mo	72	1	0.021	ppb	21.21	1.00	
107	Ag	115	1	0.008	ppb	14.65	1.00	
111	Cd	115	1	0.008	ppb	63.00	1.00	
118	Sn	115	1	0.041	ppb	4.28	1.00	
121	Sb	115	1	0.014	ppb	16.79	1.00	
137	Ba	115	1	0.013	ppb	33.11	1.00	
205	Tl	165	1	0.015	ppb	5.22	1.00	
208	Pb	165	1	0.010	ppb	10.95	1.00	
232	Th	165	1	0.025	ppb	12.01	1.00	
238	U	165	1	0.011	ppb	2.66	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	595834	0.99	585126	101.8	30 - 120	
45	Sc	1	2749107	0.74	2674809	102.8	30 - 120	
72	Ge	1	1619892	0.67	1557492	104.0	30 - 120	
115	In	1	4631080	1.62	4523827	102.4	30 - 120	
165	Ho	1	9175515	0.37	9084802	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\030WASH.D\030WASH.D#
Date Acquired: Nov 16 2011 12:39 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.862 ppb	2.71	1.30	
51	V	72	1	5.118 ppb	3.04	6.50	
52	Cr	72	1	2.124 ppb	1.66	2.60	
55	Mn	72	1	1.093 ppb	1.51	1.30	
59	Co	72	1	1.044 ppb	1.50	1.30	
60	Ni	72	1	2.115 ppb	2.13	2.60	
63	Cu	72	1	2.103 ppb	1.11	2.60	
66	Zn	72	1	10.280 ppb	0.71	13.00	
75	As	72	1	5.230 ppb	2.25	6.50	
78	Se	72	1	5.234 ppb	7.82	6.50	
95	Mo	72	1	2.095 ppb	3.13	2.60	
107	Ag	115	1	5.153 ppb	1.57	6.50	
111	Cd	115	1	1.055 ppb	3.20	1.30	
118	Sn	115	1	10.160 ppb	0.86	13.00	
121	Sb	115	1	1.982 ppb	2.18	2.60	
137	Ba	115	1	1.029 ppb	2.88	1.30	
205	Tl	165	1	1.059 ppb	0.97	1.30	
208	Pb	165	1	1.035 ppb	0.43	1.30	
232	Th	165	1	2.088 ppb	0.67	2.60	
238	U	165	1	1.036 ppb	1.68	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	586717	0.86	585126	100.3	30 - 120	
45	Sc	1	2781205	1.25	2674809	104.0	30 - 120	
72	Ge	1	1598413	0.43	1557492	102.6	30 - 120	
115	In	1	4667992	0.53	4523827	103.2	30 - 120	
165	Ho	1	9232140	0.31	9084802	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\031SMPL.D\031SMPL.D#
Date Acquired:	Nov 16 2011 12:42 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-c-4-a
Misc Info:	
Vial Number:	2210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.06	0.06	ppb	32.98	3600	
51	V	72	1	0.02	0.02	ppb	36.59	3600	
52	Cr	72	1	0.19	0.19	ppb	9.72	3600	
55	Mn	72	1	612.00	612.00	ppb	0.64	18000	
59	Co	72	1	4.74	4.74	ppb	0.70	3600	
60	Ni	72	1	5.50	5.50	ppb	1.87	3600	
63	Cu	72	1	0.57	0.57	ppb	4.52	3600	
66	Zn	72	1	8.96	8.96	ppb	0.73	3600	
75	As	72	1	0.12	0.12	ppb	5.34	3600	
78	Se	72	1	0.33	0.33	ppb	58.77	3600	
95	Mo	72	1	0.18	0.18	ppb	3.85	3600	
107	Ag	115	1	0.00	0.00	ppb	58.20	3600	
111	Cd	115	1	0.26	0.26	ppb	13.26	3600	
118	Sn	115	1	0.05	0.05	ppb	13.38	3600	
121	Sb	115	1	0.02	0.02	ppb	15.59	3600	
137	Ba	115	1	42.42	42.42	ppb	1.84	3600	
205	Tl	165	1	0.22	0.22	ppb	3.83	3600	
208	Pb	165	1	0.06	0.06	ppb	4.80	3600	
232	Th	165	1	0.02	0.02	ppb	6.01	1000	
238	U	165	1	0.00	0.00	ppb	15.01	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	579706	0.92	585126	99.1	30 - 120	
45	Sc	1	2727185	1.18	2674809	102.0	30 - 120	
72	Ge	1	1577569	0.42	1557492	101.3	30 - 120	
115	In	1	4476646	1.06	4523827	99.0	30 - 120	
165	Ho	1	9057628	1.99	9084802	99.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\032SMPL.D\032SMPL.D#
Date Acquired:	Nov 16 2011 12:45 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-c-5-a
Misc Info:	
Vial Number:	2211
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	107.58	3600	
51	V	72	1	0.03	0.03	ppb	45.52	3600	
52	Cr	72	1	0.28	0.28	ppb	2.72	3600	
55	Mn	72	1	350.90	350.90	ppb	1.27	18000	
59	Co	72	1	3.33	3.33	ppb	2.94	3600	
60	Ni	72	1	6.53	6.53	ppb	0.75	3600	
63	Cu	72	1	0.30	0.30	ppb	0.98	3600	
66	Zn	72	1	12.33	12.33	ppb	1.04	3600	
75	As	72	1	0.19	0.19	ppb	0.44	3600	
78	Se	72	1	0.18	0.18	ppb	40.03	3600	
95	Mo	72	1	1.87	1.87	ppb	2.09	3600	
107	Ag	115	1	0.00	0.00	ppb	83.83	3600	
111	Cd	115	1	0.07	0.07	ppb	24.31	3600	
118	Sn	115	1	0.07	0.07	ppb	6.35	3600	
121	Sb	115	1	0.05	0.05	ppb	13.59	3600	
137	Ba	115	1	6.96	6.96	ppb	1.20	3600	
205	Tl	165	1	0.02	0.02	ppb	8.81	3600	
208	Pb	165	1	0.07	0.07	ppb	0.93	3600	
232	Th	165	1	0.01	0.01	ppb	27.88	1000	
238	U	165	1	0.02	0.02	ppb	3.04	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	589985	0.78	585126	100.8	30 - 120	
45	Sc	1	2737806	1.51	2674809	102.4	30 - 120	
72	Ge	1	1590471	1.02	1557492	102.1	30 - 120	
115	In	1	4495769	0.16	4523827	99.4	30 - 120	
165	Ho	1	9185023	0.90	9084802	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\033SMPL.D\033SMPL.D#
Date Acquired:	Nov 16 2011 12:48 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-c-6-a
Misc Info:	
Vial Number:	2212
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	173.36	3600	
51	V	72	1	0.04	0.04	ppb	20.79	3600	
52	Cr	72	1	0.19	0.19	ppb	3.01	3600	
55	Mn	72	1	352.60	352.60	ppb	0.30	18000	
59	Co	72	1	5.01	5.01	ppb	1.41	3600	
60	Ni	72	1	13.11	13.11	ppb	1.04	3600	
63	Cu	72	1	0.28	0.28	ppb	4.92	3600	
66	Zn	72	1	4.01	4.01	ppb	1.35	3600	
75	As	72	1	0.28	0.28	ppb	5.38	3600	
78	Se	72	1	0.08	0.08	ppb	390.25	3600	
95	Mo	72	1	6.46	6.46	ppb	1.35	3600	
107	Ag	115	1	0.00	0.00	ppb	40.83	3600	
111	Cd	115	1	1.04	1.04	ppb	1.18	3600	
118	Sn	115	1	0.05	0.05	ppb	4.18	3600	
121	Sb	115	1	0.07	0.07	ppb	3.19	3600	
137	Ba	115	1	2.83	2.83	ppb	2.48	3600	
205	Tl	165	1	0.04	0.04	ppb	5.13	3600	
208	Pb	165	1	0.02	0.02	ppb	7.07	3600	
232	Th	165	1	0.01	0.01	ppb	5.81	1000	
238	U	165	1	0.03	0.03	ppb	1.71	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	583038	0.79	585126	99.6	30 - 120	
45	Sc	1	2742037	0.28	2674809	102.5	30 - 120	
72	Ge	1	1582419	1.13	1557492	101.6	30 - 120	
115	In	1	4517348	0.69	4523827	99.9	30 - 120	
165	Ho	1	9020226	0.62	9084802	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\034SMPL.D\034SMPL.D#
Date Acquired: Nov 16 2011 12:51 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-7-a
Misc Info:
Vial Number: 2301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	189.30	3600	
51	V	72	1	0.10	0.10	ppb	10.73	3600	
52	Cr	72	1	0.31	0.31	ppb	4.93	3600	
55	Mn	72	1	345.00	345.00	ppb	0.93	18000	
59	Co	72	1	4.92	4.92	ppb	0.92	3600	
60	Ni	72	1	12.17	12.17	ppb	1.41	3600	
63	Cu	72	1	0.51	0.51	ppb	2.70	3600	
66	Zn	72	1	4.23	4.23	ppb	1.81	3600	
75	As	72	1	0.27	0.27	ppb	2.57	3600	
78	Se	72	1	0.10	0.10	ppb	120.33	3600	
95	Mo	72	1	5.46	5.46	ppb	1.45	3600	
107	Ag	115	1	0.00	0.00	ppb	71.09	3600	
111	Cd	115	1	0.91	0.91	ppb	1.16	3600	
118	Sn	115	1	0.05	0.05	ppb	3.56	3600	
121	Sb	115	1	0.07	0.07	ppb	5.32	3600	
137	Ba	115	1	3.46	3.46	ppb	2.19	3600	
205	Tl	165	1	0.03	0.03	ppb	2.29	3600	
208	Pb	165	1	0.04	0.04	ppb	0.64	3600	
232	Th	165	1	0.02	0.02	ppb	14.70	1000	
238	U	165	1	0.02	0.02	ppb	4.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	583497	0.46	585126	99.7	30 - 120	
45	Sc	1	2725114	0.67	2674809	101.9	30 - 120	
72	Ge	1	1572723	0.94	1557492	101.0	30 - 120	
115	In	1	4458745	0.97	4523827	98.6	30 - 120	
165	Ho	1	9011767	0.59	9084802	99.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\035SMPL.D\035SMPL.D#
Date Acquired:	Nov 16 2011 12:54 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-c-8-a
Misc Info:	
Vial Number:	2302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	93.96	3600	
51	V	72	1	0.02	0.02	ppb	99.51	3600	
52	Cr	72	1	0.17	0.17	ppb	7.40	3600	
55	Mn	72	1	221.20	221.20	ppb	1.91	18000	
59	Co	72	1	4.52	4.52	ppb	2.82	3600	
60	Ni	72	1	4.47	4.47	ppb	1.91	3600	
63	Cu	72	1	0.40	0.40	ppb	4.68	3600	
66	Zn	72	1	5.67	5.67	ppb	1.90	3600	
75	As	72	1	0.11	0.11	ppb	12.63	3600	
78	Se	72	1	0.14	0.14	ppb	138.31	3600	
95	Mo	72	1	1.68	1.68	ppb	4.67	3600	
107	Ag	115	1	0.00	0.00	ppb	101.60	3600	
111	Cd	115	1	0.69	0.69	ppb	4.50	3600	
118	Sn	115	1	0.05	0.05	ppb	19.59	3600	
121	Sb	115	1	0.03	0.03	ppb	10.36	3600	
137	Ba	115	1	7.22	7.22	ppb	1.65	3600	
205	Tl	165	1	0.04	0.04	ppb	1.86	3600	
208	Pb	165	1	0.04	0.04	ppb	3.06	3600	
232	Th	165	1	0.00	0.00	ppb	15.61	1000	
238	U	165	1	0.00	0.00	ppb	10.07	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	587762	1.27	585126	100.5	30 - 120	
45	Sc	1	2741306	3.03	2674809	102.5	30 - 120	
72	Ge	1	1603938	2.70	1557492	103.0	30 - 120	
115	In	1	4559091	2.39	4523827	100.8	30 - 120	
165	Ho	1	9157501	2.00	9084802	100.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\036SMPL.D\036SMPL.D#
Date Acquired: Nov 16 2011 12:57 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-12-a
Misc Info:
Vial Number: 2303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	305.11	3600	
51	V	72	1	0.04	0.04	ppb	24.04	3600	
52	Cr	72	1	0.20	0.20	ppb	4.05	3600	
55	Mn	72	1	169.70	169.70	ppb	1.17	18000	
59	Co	72	1	2.89	2.89	ppb	1.03	3600	
60	Ni	72	1	4.46	4.46	ppb	2.64	3600	
63	Cu	72	1	0.51	0.51	ppb	4.16	3600	
66	Zn	72	1	5.03	5.03	ppb	1.30	3600	
75	As	72	1	0.06	0.06	ppb	9.79	3600	
78	Se	72	1	0.24	0.24	ppb	46.60	3600	
95	Mo	72	1	0.51	0.51	ppb	2.10	3600	
107	Ag	115	1	0.00	0.00	ppb	387.37	3600	
111	Cd	115	1	0.66	0.66	ppb	2.10	3600	
118	Sn	115	1	0.06	0.06	ppb	18.43	3600	
121	Sb	115	1	0.02	0.02	ppb	7.88	3600	
137	Ba	115	1	10.86	10.86	ppb	0.57	3600	
205	Tl	165	1	0.05	0.05	ppb	6.59	3600	
208	Pb	165	1	0.04	0.04	ppb	3.65	3600	
232	Th	165	1	0.00	0.00	ppb	12.74	1000	
238	U	165	1	0.00	0.00	ppb	13.68	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	588624	1.48	585126	100.6	30 - 120	
45	Sc	1	2741980	1.84	2674809	102.5	30 - 120	
72	Ge	1	1588555	1.37	1557492	102.0	30 - 120	
115	In	1	4471104	0.42	4523827	98.8	30 - 120	
165	Ho	1	8987920	1.31	9084802	98.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\037SMPL.D\037SMPL.D#
Date Acquired: Nov 16 2011 01:00 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-13-a
Misc Info:
Vial Number: 2304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	74.62	3600	
51	V	72	1	1.48	1.48	ppb	3.19	3600	
52	Cr	72	1	0.76	0.76	ppb	2.16	3600	
55	Mn	72	1	82.47	82.47	ppb	1.35	18000	
59	Co	72	1	0.28	0.28	ppb	1.60	3600	
60	Ni	72	1	1.66	1.66	ppb	1.81	3600	
63	Cu	72	1	0.33	0.33	ppb	1.88	3600	
66	Zn	72	1	3.33	3.33	ppb	0.86	3600	
75	As	72	1	6.09	6.09	ppb	0.13	3600	
78	Se	72	1	0.22	0.22	ppb	40.15	3600	
95	Mo	72	1	1.43	1.43	ppb	3.26	3600	
107	Ag	115	1	0.00	0.00	ppb	35.48	3600	
111	Cd	115	1	0.03	0.03	ppb	45.51	3600	
118	Sn	115	1	0.12	0.12	ppb	6.40	3600	
121	Sb	115	1	0.05	0.05	ppb	3.67	3600	
137	Ba	115	1	0.69	0.69	ppb	2.19	3600	
205	Tl	165	1	0.00	0.00	ppb	19.49	3600	
208	Pb	165	1	0.16	0.16	ppb	2.35	3600	
232	Th	165	1	0.16	0.16	ppb	1.92	1000	
238	U	165	1	0.07	0.07	ppb	1.79	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	572910	0.96	585126	97.9	30 - 120	
45	Sc	1	2692585	0.10	2674809	100.7	30 - 120	
72	Ge	1	1565068	0.72	1557492	100.5	30 - 120	
115	In	1	4452666	1.11	4523827	98.4	30 - 120	
165	Ho	1	9039977	0.28	9084802	99.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\038SMPL.D\038SMPL.D#
Date Acquired: Nov 16 2011 01:03 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-14-a
Misc Info:
Vial Number: 2305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	74.92	3600	
51	V	72	1	1.31	1.31	ppb	4.00	3600	
52	Cr	72	1	0.66	0.66	ppb	3.77	3600	
55	Mn	72	1	87.12	87.12	ppb	0.51	18000	
59	Co	72	1	0.29	0.29	ppb	1.80	3600	
60	Ni	72	1	1.54	1.54	ppb	1.71	3600	
63	Cu	72	1	0.10	0.10	ppb	12.10	3600	
66	Zn	72	1	2.70	2.70	ppb	0.98	3600	
75	As	72	1	5.93	5.93	ppb	2.33	3600	
78	Se	72	1	0.23	0.23	ppb	24.95	3600	
95	Mo	72	1	1.48	1.48	ppb	0.36	3600	
107	Ag	115	1	0.00	0.00	ppb	48.17	3600	
111	Cd	115	1	0.02	0.02	ppb	56.55	3600	
118	Sn	115	1	0.06	0.06	ppb	4.08	3600	
121	Sb	115	1	0.05	0.05	ppb	9.22	3600	
137	Ba	115	1	0.43	0.43	ppb	1.59	3600	
205	Tl	165	1	0.00	0.00	ppb	6.17	3600	
208	Pb	165	1	0.03	0.03	ppb	1.48	3600	
232	Th	165	1	0.12	0.12	ppb	1.47	1000	
238	U	165	1	0.06	0.06	ppb	3.09	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	577195	1.32	585126	98.6	30 - 120	
45	Sc	1	2701016	0.76	2674809	101.0	30 - 120	
72	Ge	1	1573213	1.41	1557492	101.0	30 - 120	
115	In	1	4464543	1.06	4523827	98.7	30 - 120	
165	Ho	1	8994470	1.41	9084802	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\039SMPL.D\039SMPL.D#
Date Acquired: Nov 16 2011 01:06 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-c-19-a
Misc Info:
Vial Number: 2306
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	179.01	3600	
51	V	72	1	1.17	1.17	ppb	1.83	3600	
52	Cr	72	1	3.10	3.10	ppb	1.01	3600	
55	Mn	72	1	57.11	57.11	ppb	0.82	18000	
59	Co	72	1	0.69	0.69	ppb	2.76	3600	
60	Ni	72	1	2.06	2.06	ppb	1.03	3600	
63	Cu	72	1	41.61	41.61	ppb	0.12	3600	
66	Zn	72	1	394.90	394.90	ppb	0.85	3600	
75	As	72	1	0.65	0.65	ppb	1.54	3600	
78	Se	72	1	0.22	0.22	ppb	64.09	3600	
95	Mo	72	1	0.24	0.24	ppb	9.07	3600	
107	Ag	115	1	0.07	0.07	ppb	9.20	3600	
111	Cd	115	1	0.04	0.04	ppb	9.40	3600	
118	Sn	115	1	0.85	0.85	ppb	2.00	3600	
121	Sb	115	1	0.07	0.07	ppb	7.15	3600	
137	Ba	115	1	22.97	22.97	ppb	1.12	3600	
205	Tl	165	1	0.01	0.01	ppb	5.31	3600	
208	Pb	165	1	3.09	3.09	ppb	1.25	3600	
232	Th	165	1	0.00	0.00	ppb	42.01	1000	
238	U	165	1	0.01	0.01	ppb	5.65	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	576369	0.28	585126	98.5	30 - 120	
45	Sc	1	2712104	0.98	2674809	101.4	30 - 120	
72	Ge	1	1584558	1.04	1557492	101.7	30 - 120	
115	In	1	4479245	1.46	4523827	99.0	30 - 120	
165	Ho	1	9050437	1.29	9084802	99.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\040_LCS.D\040_LCS.D#
Date Acquired:	Nov 16 2011 01:09 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-94950/2-a
Misc Info:	LCS
Vial Number:	2202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	42.08	3.74	40	105.2	80 - 120	
51 V	72	1	43.53	1.09	40	108.8	80 - 120	
52 Cr	72	1	42.90	1.18	40	107.3	80 - 120	
55 Mn	72	1	42.70	0.51	40	106.8	80 - 120	
59 Co	72	1	43.54	0.36	40	108.9	80 - 120	
60 Ni	72	1	42.13	0.58	40	105.3	80 - 120	
63 Cu	72	1	42.19	0.50	40	105.5	80 - 120	
66 Zn	72	1	43.91	0.86	40	109.8	80 - 120	
75 As	72	1	43.28	0.88	40	108.2	80 - 120	
78 Se	72	1	44.14	4.40	40	110.4	80 - 120	
95 Mo	72	1	41.42	0.64	40	103.6	80 - 120	
107 Ag	115	1	42.74	0.66	40	106.9	80 - 120	
111 Cd	115	1	42.44	0.91	40	106.1	80 - 120	
118 Sn	115	1	41.06	0.40	40	102.7	80 - 120	
121 Sb	115	1	41.10	0.60	40	102.8	80 - 120	
137 Ba	115	1	42.51	0.25	40	106.3	80 - 120	
205 Tl	165	1	43.06	2.85	40	107.7	80 - 120	
208 Pb	165	1	42.17	0.54	40	105.4	80 - 120	
232 Th	165	1	41.97	0.19	40	104.9	80 - 120	
238 U	165	1	42.43	1.44	40	106.1	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	599375	2.76	585126	102.4	30 - 120	
45 Sc	1	2754380	2.12	2674809	103.0	30 - 120	
72 Ge	1	1599897	0.88	1557492	102.7	30 - 120	
115 In	1	4610136	0.61	4523827	101.9	30 - 120	
165 Ho	1	9249130	0.17	9084802	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\041_CCV.D\041_CCV.D#
Date Acquired:	Nov 16 2011 01:11 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.30	ppb	1.02	50	102.6	90 - 110	
51	V	72	1	51.03	ppb	2.43	50	102.1	90 - 110	
52	Cr	72	1	50.38	ppb	0.95	50	100.8	90 - 110	
55	Mn	72	1	50.21	ppb	2.25	50	100.4	90 - 110	
59	Co	72	1	51.20	ppb	1.14	50	102.4	90 - 110	
60	Ni	72	1	50.31	ppb	1.09	50	100.6	90 - 110	
63	Cu	72	1	50.12	ppb	1.95	50	100.2	90 - 110	
66	Zn	72	1	49.98	ppb	1.12	50	100.0	90 - 110	
75	As	72	1	50.22	ppb	0.37	50	100.4	90 - 110	
78	Se	72	1	50.35	ppb	4.25	50	100.7	90 - 110	
95	Mo	72	1	48.91	ppb	2.10	50	97.8	90 - 110	
107	Ag	115	1	50.31	ppb	1.17	50	100.6	90 - 110	
111	Cd	115	1	49.70	ppb	0.51	50	99.4	90 - 110	
118	Sn	115	1	47.74	ppb	1.37	50	95.5	90 - 110	
121	Sb	115	1	48.04	ppb	0.47	50	96.1	90 - 110	
137	Ba	115	1	49.65	ppb	0.64	50	99.3	90 - 110	
205	Tl	165	1	51.06	ppb	0.48	50	102.1	90 - 110	
208	Pb	165	1	50.10	ppb	0.65	50	100.2	90 - 110	
232	Th	165	1	50.72	ppb	1.07	50	101.4	90 - 110	
238	U	165	1	50.52	ppb	0.77	50	101.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	578761	0.75	585126	98.9	30 - 120	
45	Sc	1	2724190	0.57	2674809	101.8	30 - 120	
72	Ge	1	1581201	0.78	1557492	101.5	30 - 120	
115	In	1	4580548	0.33	4523827	101.3	30 - 120	
165	Ho	1	9116615	0.48	9084802	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\042_CCB.D\042_CCB.D#
Date Acquired:	Nov 16 2011 01:14 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.020	ppb	69.20	1.00	
51	V	72	1	0.007	ppb	55.18	1.00	
52	Cr	72	1	0.002	ppb	241.19	1.00	
55	Mn	72	1	0.048	ppb	6.26	1.00	
59	Co	72	1	0.008	ppb	36.54	1.00	
60	Ni	72	1	0.013	ppb	43.01	1.00	
63	Cu	72	1	0.013	ppb	43.83	1.00	
66	Zn	72	1	0.031	ppb	30.99	1.00	
75	As	72	1	0.014	ppb	58.19	1.00	
78	Se	72	1	0.236	ppb	132.99	1.00	
95	Mo	72	1	0.021	ppb	24.17	1.00	
107	Ag	115	1	0.009	ppb	2.79	1.00	
111	Cd	115	1	0.004	ppb	28.26	1.00	
118	Sn	115	1	0.043	ppb	21.24	1.00	
121	Sb	115	1	0.020	ppb	6.34	1.00	
137	Ba	115	1	0.012	ppb	18.62	1.00	
205	Tl	165	1	0.015	ppb	11.91	1.00	
208	Pb	165	1	0.011	ppb	16.96	1.00	
232	Th	165	1	0.027	ppb	14.19	1.00	
238	U	165	1	0.013	ppb	2.21	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	584588	0.32	585126	99.9	30 - 120	
45	Sc	1	2708184	0.65	2674809	101.2	30 - 120	
72	Ge	1	1574769	0.31	1557492	101.1	30 - 120	
115	In	1	4529834	0.90	4523827	100.1	30 - 120	
165	Ho	1	8983576	0.10	9084802	98.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\043WASH.D\043WASH.D#
Date Acquired: Nov 16 2011 01:17 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.094 ppb	5.20	1.30	
51	V	72	1	5.097 ppb	1.74	6.50	
52	Cr	72	1	2.143 ppb	1.37	2.60	
55	Mn	72	1	1.113 ppb	1.41	1.30	
59	Co	72	1	1.048 ppb	1.76	1.30	
60	Ni	72	1	2.103 ppb	1.14	2.60	
63	Cu	72	1	2.066 ppb	2.72	2.60	
66	Zn	72	1	10.410 ppb	1.05	13.00	
75	As	72	1	5.378 ppb	1.52	6.50	
78	Se	72	1	5.575 ppb	1.70	6.50	
95	Mo	72	1	1.982 ppb	2.65	2.60	
107	Ag	115	1	5.183 ppb	0.92	6.50	
111	Cd	115	1	1.071 ppb	3.59	1.30	
118	Sn	115	1	10.250 ppb	1.28	13.00	
121	Sb	115	1	1.992 ppb	1.24	2.60	
137	Ba	115	1	1.031 ppb	2.91	1.30	
205	Tl	165	1	1.069 ppb	0.70	1.30	
208	Pb	165	1	1.032 ppb	0.55	1.30	
232	Th	165	1	2.078 ppb	1.81	2.60	
238	U	165	1	1.031 ppb	1.12	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	584042	1.78	585126	99.8	30 - 120	
45	Sc	1	2729860	1.02	2674809	102.1	30 - 120	
72	Ge	1	1579120	1.14	1557492	101.4	30 - 120	
115	In	1	4593985	1.26	4523827	101.6	30 - 120	
165	Ho	1	9157342	0.08	9084802	100.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\044_BLK.D\044_BLK.D#
Date Acquired: Nov 16 2011 01:20 pm
Operator: TEL
Sample Name: mb 280-96209/1-b
Misc Info: BLANK 96273 6020 DoD4
Vial Number: 2307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.004 ppb	511.82	2.00	
51 V	72	1	0.023 ppb	31.28	2.00	
52 Cr	72	1	0.099 ppb	1.96	2.00	
55 Mn	72	1	0.158 ppb	3.53	2.00	
59 Co	72	1	0.002 ppb	33.97	2.00	
60 Ni	72	1	0.003 ppb	79.43	2.00	
63 Cu	72	1	0.039 ppb	32.48	2.00	
66 Zn	72	1	1.085 ppb	2.23	2.00	
75 As	72	1	0.018 ppb	37.46	2.00	
78 Se	72	1	-0.010 ppb	899.80	2.00	
95 Mo	72	1	0.029 ppb	23.14	2.00	
107 Ag	115	1	0.003 ppb	32.75	2.00	
111 Cd	115	1	-0.001 ppb	329.29	2.00	
118 Sn	115	1	0.049 ppb	13.95	2.00	
121 Sb	115	1	0.002 ppb	11.74	2.00	
137 Ba	115	1	0.022 ppb	13.18	2.00	
205 Tl	165	1	0.004 ppb	17.35	2.00	
208 Pb	165	1	0.005 ppb	8.46	2.00	
232 Th	165	1	0.011 ppb	19.86	2.00	
238 U	165	1	0.002 ppb	5.03	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	580232	0.85	585126	99.2	30 - 120	
45 Sc	1	2700644	0.85	2674809	101.0	30 - 120	
72 Ge	1	1578367	2.40	1557492	101.3	30 - 120	
115 In	1	4558848	1.51	4523827	100.8	30 - 120	
165 Ho	1	9068410	0.35	9084802	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\045_LCS.D\045_LCS.D#
Date Acquired:	Nov 16 2011 01:23 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-96209/2-b
Misc Info:	LCS
Vial Number:	2308
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	44.20	2.32	40	110.5	80 - 120	
51	V	72	1	42.82	3.09	40	107.1	80 - 120	
52	Cr	72	1	42.35	3.37	40	105.9	80 - 120	
55	Mn	72	1	42.35	2.07	40	105.9	80 - 120	
59	Co	72	1	42.73	0.74	40	106.8	80 - 120	
60	Ni	72	1	42.08	1.15	40	105.2	80 - 120	
63	Cu	72	1	41.79	0.84	40	104.5	80 - 120	
66	Zn	72	1	43.82	1.71	40	109.6	80 - 120	
75	As	72	1	42.95	1.75	40	107.4	80 - 120	
78	Se	72	1	45.57	5.10	40	113.9	80 - 120	
95	Mo	72	1	41.09	1.67	40	102.7	80 - 120	
107	Ag	115	1	43.26	1.34	40	108.2	80 - 120	
111	Cd	115	1	42.78	1.79	40	107.0	80 - 120	
118	Sn	115	1	41.07	1.36	40	102.7	80 - 120	
121	Sb	115	1	41.24	1.26	40	103.1	80 - 120	
137	Ba	115	1	42.86	2.20	40	107.2	80 - 120	
205	Tl	165	1	43.35	0.92	40	108.4	80 - 120	
208	Pb	165	1	42.38	0.81	40	106.0	80 - 120	
232	Th	165	1	42.77	0.70	40	106.9	80 - 120	
238	U	165	1	43.17	0.21	40	107.9	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	577594	1.49	585126	98.7	30 - 120	
45	Sc	1	2723365	1.61	2674809	101.8	30 - 120	
72	Ge	1	1585940	1.63	1557492	101.8	30 - 120	
115	In	1	4529229	1.44	4523827	100.1	30 - 120	
165	Ho	1	9143550	0.98	9084802	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\046SMPL.D\046SMPL.D#
Date Acquired: Nov 16 2011 01:26 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22514-c-23-b
Misc Info:
Vial Number: 2309
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	72.00	3600	
51	V	72	1	0.31	0.31	ppb	11.49	3600	
52	Cr	72	1	1.06	1.06	ppb	4.76	3600	
55	Mn	72	1	375.30	375.30	ppb	1.25	18000	
59	Co	72	1	5.58	5.58	ppb	0.52	3600	
60	Ni	72	1	10.37	10.37	ppb	1.65	3600	
63	Cu	72	1	0.93	0.93	ppb	1.16	3600	
66	Zn	72	1	8.98	8.98	ppb	0.32	3600	
75	As	72	1	0.28	0.28	ppb	9.59	3600	
78	Se	72	1	9.91	9.91	ppb	3.09	3600	
95	Mo	72	1	0.86	0.86	ppb	3.30	3600	
107	Ag	115	1	0.01	0.01	ppb	28.14	3600	
111	Cd	115	1	0.21	0.21	ppb	9.88	3600	
118	Sn	115	1	0.08	0.08	ppb	11.62	3600	
121	Sb	115	1	0.28	0.28	ppb	5.18	3600	
137	Ba	115	1	306.90	306.90	ppb	0.27	3600	
205	Tl	165	1	0.04	0.04	ppb	7.76	3600	
208	Pb	165	1	0.05	0.05	ppb	18.91	3600	
232	Th	165	1	0.04	0.04	ppb	16.84	1000	
238	U	165	1	3.62	3.62	ppb	0.33	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	511872	1.21	585126	87.5	30 - 120	
45	Sc	1	2489302	2.10	2674809	93.1	30 - 120	
72	Ge	1	1344875	0.67	1557492	86.3	30 - 120	
115	In	1	3950910	0.57	4523827	87.3	30 - 120	
165	Ho	1	8142327	0.20	9084802	89.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\047AREF.D\047AREF.D#	
Date Acquired:	Nov 16 2011 01:29 pm	
Acq. Method:	NormISIS.M	**QC Summary:**
Operator:	TEL	**Analytes: Pass**
Sample Name:	280-22514-c-24-b	**ISTD: Pass**
Misc Info:		
Vial Number:	2310	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 16 2011 11:25 am	
Sample Type:	AllRef	
Dilution Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	212.09	3600	
51	V	72	1	0.00	0.00	ppb	422380.00	3600	
52	Cr	72	1	0.24	0.24	ppb	4.09	3600	
55	Mn	72	1	17,240.00	17240.00	ppb	0.20	18000	
59	Co	72	1	10.94	10.94	ppb	0.08	3600	
60	Ni	72	1	11.69	11.69	ppb	0.41	3600	
63	Cu	72	1	0.88	0.88	ppb	2.71	3600	
66	Zn	72	1	19.53	19.53	ppb	1.37	3600	
75	As	72	1	5.25	5.25	ppb	0.07	3600	
78	Se	72	1	0.27	0.27	ppb	82.61	3600	
95	Mo	72	1	0.44	0.44	ppb	6.07	3600	
107	Ag	115	1	0.00	0.00	ppb	63.16	3600	
111	Cd	115	1	0.03	0.03	ppb	19.40	3600	
118	Sn	115	1	0.07	0.07	ppb	23.21	3600	
121	Sb	115	1	0.05	0.05	ppb	13.89	3600	
137	Ba	115	1	913.60	913.60	ppb	1.73	3600	
205	Tl	165	1	0.04	0.04	ppb	0.62	3600	
208	Pb	165	1	0.00	0.00	ppb	35.95	3600	
232	Th	165	1	0.02	0.02	ppb	10.65	1000	
238	U	165	1	0.77	0.77	ppb	1.71	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	463905	1.17	585126	79.3	30 - 120	
45	Sc	1	2301043	0.73	2674809	86.0	30 - 120	
72	Ge	1	1316094	0.42	1557492	84.5	30 - 120	
115	In	1	3829257	1.27	4523827	84.6	30 - 120	
165	Ho	1	7731443	0.28	9084802	85.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\048SDIL.D\048SDIL.D#
Date Acquired: Nov 16 2011 01:32 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22514-c-24-b SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2311
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\047AREF.D\047AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.00	ppb	528.23	0.00	111.4	90 - 110	
51	V	72	1	0.00	ppb	493.24	0.00	224414.6	90 - 110	
52	Cr	72	1	0.05	ppb	8.76	0.05	96.8	90 - 110	
55	Mn	72	1	3483.00	ppb	0.49	3448.00	101.0	90 - 110	
59	Co	72	1	2.24	ppb	1.25	2.19	102.2	90 - 110	
60	Ni	72	1	2.34	ppb	0.57	2.34	100.2	90 - 110	
63	Cu	72	1	0.22	ppb	4.16	0.18	127.0	90 - 110	
66	Zn	72	1	4.29	ppb	0.39	3.91	109.8	90 - 110	
75	As	72	1	1.06	ppb	0.88	1.05	101.0	90 - 110	
78	Se	72	1	0.17	ppb	40.05	0.05	321.5	90 - 110	
95	Mo	72	1	0.10	ppb	19.07	0.09	110.0	90 - 110	
107	Ag	115	1	0.00	ppb	83.82	0.00	652.1	90 - 110	
111	Cd	115	1	0.01	ppb	108.94	0.01	151.2	90 - 110	
118	Sn	115	1	0.09	ppb	16.92	0.01	637.0	90 - 110	
121	Sb	115	1	0.01	ppb	14.81	0.01	104.3	90 - 110	
137	Ba	115	1	181.70	ppb	1.72	182.72	99.4	90 - 110	
205	Tl	165	1	0.01	ppb	2.72	0.01	132.4	90 - 110	
208	Pb	165	1	0.00	ppb	16.81	0.00	514.8	90 - 110	
232	Th	165	1	0.01	ppb	11.01	0.00	233.4	90 - 110	
238	U	165	1	0.16	ppb	2.32	0.15	102.6	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489152	0.43	585126	83.6	30 - 120	
45	Sc	1	2460270	0.35	2674809	92.0	30 - 120	
72	Ge	1	1440888	0.51	1557492	92.5	30 - 120	
115	In	1	4197346	1.39	4523827	92.8	30 - 120	
165	Ho	1	8319707	0.40	9084802	91.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\049PDS.D\049PDS.D#
Date Acquired:	Nov 16 2011 01:35 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22514-c-24-b PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	2312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00
Spike Ref. File:	---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	207.00	0.01	ppb	0.69	200	103.5	75 - 125	
51 V	72	1	200.70	0.00	ppb	0.81	200	100.3	75 - 125	
52 Cr	72	1	193.90	0.24	ppb	0.33	200	96.8	75 - 125	
55 Mn	72	1	16950.00	17240.00	ppb	0.64	200	97.2	75 - 125	
59 Co	72	1	197.70	10.94	ppb	0.48	200	93.7	75 - 125	
60 Ni	72	1	204.50	11.69	ppb	0.60	200	96.6	75 - 125	
63 Cu	72	1	180.40	0.88	ppb	0.79	200	89.8	75 - 125	
66 Zn	72	1	201.00	19.53	ppb	0.51	200	91.6	75 - 125	
75 As	72	1	210.30	5.25	ppb	0.83	200	102.5	75 - 125	
78 Se	72	1	200.30	0.27	ppb	0.68	200	100.0	75 - 125	
95 Mo	72	1	209.30	0.44	ppb	1.36	200	104.4	75 - 125	
107 Ag	115	1	45.67	0.00	ppb	1.26	50	91.3	75 - 125	
111 Cd	115	1	194.90	0.03	ppb	0.69	200	97.4	75 - 125	
118 Sn	115	1	197.60	0.07	ppb	0.98	200	98.8	75 - 125	
121 Sb	115	1	198.90	0.05	ppb	0.87	200	99.4	75 - 125	
137 Ba	115	1	1089.00	913.60	ppb	0.72	200	97.8	75 - 125	
205 Tl	165	1	185.60	0.04	ppb	1.78	200	92.8	75 - 125	
208 Pb	165	1	181.30	0.00	ppb	0.71	200	90.6	75 - 125	
232 Th	165	1	0.06	0.02	ppb	4.45	200	0.0	75 - 125	
238 U	165	1	192.70	0.77	ppb	1.50	200	96.0	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	445542	0.21	585126	76.1	30 - 120	
45 Sc	1	2239845	0.28	2674809	83.7	30 - 120	
72 Ge	1	1285063	0.46	1557492	82.5	30 - 120	
115 In	1	3741418	0.32	4523827	82.7	30 - 120	
165 Ho	1	7638025	1.25	9084802	84.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\050_MS.D\050_MS.D#
Date Acquired:	Nov 16 2011 01:37 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22514-c-24-c ms
Misc Info:	MATRIX SPIKE
Vial Number:	2401
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	45.58	0.01	ppb	3.77	40	113.9	50 - 150	
51	V	72	1	44.36	0.00	ppb	2.63	40	110.9	50 - 150	
52	Cr	72	1	42.61	0.24	ppb	3.38	40	105.9	50 - 150	
55	Mn	72	1	17700.00	17240.00	ppb	3.12	40	102.4	50 - 150	
59	Co	72	1	54.68	10.94	ppb	1.68	40	107.3	50 - 150	
60	Ni	72	1	52.43	11.69	ppb	3.92	40	101.4	50 - 150	
63	Cu	72	1	39.53	0.88	ppb	3.58	40	96.7	50 - 150	
66	Zn	72	1	60.34	19.53	ppb	3.30	40	101.4	50 - 150	
75	As	72	1	50.15	5.25	ppb	3.06	40	110.8	50 - 150	
78	Se	72	1	44.87	0.27	ppb	6.84	40	111.4	50 - 150	
95	Mo	72	1	45.59	0.44	ppb	2.65	40	112.7	50 - 150	
107	Ag	115	1	39.39	0.00	ppb	3.23	40	98.5	50 - 150	
111	Cd	115	1	42.32	0.03	ppb	2.54	40	105.7	50 - 150	
118	Sn	115	1	42.42	0.07	ppb	3.13	40	105.9	50 - 150	
121	Sb	115	1	42.91	0.05	ppb	2.71	40	107.1	50 - 150	
137	Ba	115	1	990.20	913.60	ppb	3.16	40	103.8	50 - 150	
205	Tl	165	1	43.01	0.04	ppb	1.80	40	107.4	50 - 150	
208	Pb	165	1	40.70	0.00	ppb	2.74	40	101.7	50 - 150	
232	Th	165	1	44.42	0.02	ppb	3.78	40	111.0	50 - 150	
238	U	165	1	45.21	0.77	ppb	3.86	40	110.9	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	427953	2.39	585126	73.1	30 - 120	
45	Sc	1	2175418	1.79	2674809	81.3	30 - 120	
72	Ge	1	1255159	2.69	1557492	80.6	30 - 120	
115	In	1	3640379	2.58	4523827	80.5	30 - 120	
165	Ho	1	7361408	2.79	9084802	81.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\051_MSD.D\051_MSD.D#
Date Acquired:	Nov 16 2011 01:40 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22514-c-24-d msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	2402
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\050_MS.D\050_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	43.34	ppb	1.51	45.58	5.04	20	
51	V	72	1	42.44	ppb	0.86	44.36	4.42	20	
52	Cr	72	1	40.35	ppb	0.43	42.61	5.45	20	
55	Mn	72	1	17020.00	ppb	0.35	17700.00	3.92	20	
59	Co	72	1	52.20	ppb	0.69	54.68	4.64	20	
60	Ni	72	1	49.63	ppb	0.22	52.43	5.49	20	
63	Cu	72	1	37.43	ppb	0.23	39.53	5.46	20	
66	Zn	72	1	57.39	ppb	0.53	60.34	5.01	20	
75	As	72	1	47.50	ppb	0.14	50.15	5.43	20	
78	Se	72	1	41.78	ppb	5.57	44.87	7.13	20	
95	Mo	72	1	43.60	ppb	0.70	45.59	4.46	20	
107	Ag	115	1	37.51	ppb	0.31	39.39	4.89	20	
111	Cd	115	1	40.15	ppb	0.26	42.32	5.26	20	
118	Sn	115	1	40.42	ppb	0.72	42.42	4.83	20	
121	Sb	115	1	40.63	ppb	0.54	42.91	5.46	20	
137	Ba	115	1	961.50	ppb	0.60	990.20	2.94	20	
205	Tl	165	1	40.34	ppb	1.01	43.01	6.41	20	
208	Pb	165	1	38.43	ppb	1.38	40.70	5.74	20	
232	Th	165	1	42.06	ppb	1.71	44.42	5.46	20	
238	U	165	1	42.44	ppb	1.62	45.21	6.32	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	427281	0.67	585126	73.0	30 - 120	
45	Sc	1	2161450	0.65	2674809	80.8	30 - 120	
72	Ge	1	1259810	0.50	1557492	80.9	30 - 120	
115	In	1	3658870	0.15	4523827	80.9	30 - 120	
165	Ho	1	7365130	1.56	9084802	81.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\052_CCV.D\052_CCV.D#
Date Acquired:	Nov 16 2011 01:43 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.47	ppb	2.27	50	102.9	90 - 110	
51	V	72	1	50.40	ppb	1.79	50	100.8	90 - 110	
52	Cr	72	1	49.91	ppb	1.72	50	99.8	90 - 110	
55	Mn	72	1	51.39	ppb	1.21	50	102.8	90 - 110	
59	Co	72	1	50.57	ppb	1.11	50	101.1	90 - 110	
60	Ni	72	1	49.99	ppb	0.91	50	100.0	90 - 110	
63	Cu	72	1	49.72	ppb	0.49	50	99.4	90 - 110	
66	Zn	72	1	49.57	ppb	0.06	50	99.1	90 - 110	
75	As	72	1	50.04	ppb	0.21	50	100.1	90 - 110	
78	Se	72	1	51.99	ppb	0.52	50	104.0	90 - 110	
95	Mo	72	1	49.41	ppb	0.76	50	98.8	90 - 110	
107	Ag	115	1	49.35	ppb	1.22	50	98.7	90 - 110	
111	Cd	115	1	48.59	ppb	1.43	50	97.2	90 - 110	
118	Sn	115	1	47.62	ppb	0.49	50	95.2	90 - 110	
121	Sb	115	1	47.43	ppb	0.80	50	94.9	90 - 110	
137	Ba	115	1	49.29	ppb	1.16	50	98.6	90 - 110	
205	Tl	165	1	50.81	ppb	0.22	50	101.6	90 - 110	
208	Pb	165	1	49.52	ppb	2.10	50	99.0	90 - 110	
232	Th	165	1	50.73	ppb	1.30	50	101.5	90 - 110	
238	U	165	1	50.67	ppb	2.07	50	101.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	472849	0.37	585126	80.8	30 - 120	
45	Sc	1	2394142	0.43	2674809	89.5	30 - 120	
72	Ge	1	1430723	0.48	1557492	91.9	30 - 120	
115	In	1	4272615	0.69	4523827	94.4	30 - 120	
165	Ho	1	8431879	0.92	9084802	92.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\053_CCB.D\053_CCB.D#
Date Acquired:	Nov 16 2011 01:46 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.003	ppb	284.40	1.00	
51	V	72	1	0.001	ppb	1440.20	1.00	
52	Cr	72	1	-0.002	ppb	368.31	1.00	
55	Mn	72	1	0.760	ppb	5.44	1.00	
59	Co	72	1	0.007	ppb	52.23	1.00	
60	Ni	72	1	0.022	ppb	21.66	1.00	
63	Cu	72	1	0.008	ppb	20.44	1.00	
66	Zn	72	1	0.016	ppb	100.99	1.00	
75	As	72	1	0.021	ppb	33.32	1.00	
78	Se	72	1	0.069	ppb	85.01	1.00	
95	Mo	72	1	0.014	ppb	33.50	1.00	
107	Ag	115	1	0.009	ppb	11.07	1.00	
111	Cd	115	1	0.001	ppb	40.79	1.00	
118	Sn	115	1	0.050	ppb	11.87	1.00	
121	Sb	115	1	0.017	ppb	15.07	1.00	
137	Ba	115	1	0.054	ppb	18.00	1.00	
205	Tl	165	1	0.018	ppb	14.29	1.00	
208	Pb	165	1	0.009	ppb	4.01	1.00	
232	Th	165	1	0.020	ppb	9.99	1.00	
238	U	165	1	0.013	ppb	4.88	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	475456	1.28	585126	81.3	30 - 120	
45	Sc	1	2432312	1.83	2674809	90.9	30 - 120	
72	Ge	1	1469167	1.06	1557492	94.3	30 - 120	
115	In	1	4212524	0.89	4523827	93.1	30 - 120	
165	Ho	1	8340865	0.96	9084802	91.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\054WASH.D\054WASH.D#
Date Acquired: Nov 16 2011 01:49 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.002 ppb	478.35	1.30	
51	V	72	1	0.007 ppb	143.33	6.50	
52	Cr	72	1	0.018 ppb	25.90	2.60	
55	Mn	72	1	0.558 ppb	5.84	1.30	
59	Co	72	1	0.003 ppb	9.39	1.30	
60	Ni	72	1	0.000 ppb	993.89	2.60	
63	Cu	72	1	-0.002 ppb	201.42	2.60	
66	Zn	72	1	-0.013 ppb	69.87	13.00	
75	As	72	1	0.015 ppb	7.03	6.50	
78	Se	72	1	0.034 ppb	234.76	6.50	
95	Mo	72	1	0.005 ppb	85.51	2.60	
107	Ag	115	1	0.003 ppb	41.82	6.50	
111	Cd	115	1	0.002 ppb	60.92	1.30	
118	Sn	115	1	0.019 ppb	42.14	13.00	
121	Sb	115	1	0.008 ppb	11.17	2.60	
137	Ba	115	1	0.032 ppb	12.25	1.30	
205	Tl	165	1	0.010 ppb	8.52	1.30	
208	Pb	165	1	0.002 ppb	19.45	1.30	
232	Th	165	1	0.014 ppb	18.25	2.60	
238	U	165	1	0.005 ppb	11.80	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	477912	0.38	585126	81.7	30 - 120	
45	Sc	1	2516494	1.74	2674809	94.1	30 - 120	
72	Ge	1	1461654	0.38	1557492	93.8	30 - 120	
115	In	1	4322811	1.03	4523827	95.6	30 - 120	
165	Ho	1	8511836	0.48	9084802	93.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\055WASH.D\055WASH.D#
Date Acquired:	Nov 16 2011 01:52 pm
Operator:	TEL
Sample Name:	RINSE
Misc Info:	
Vial Number:	3
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.007	ppb	382.39	1.30	
51	V	72	1	0.006	ppb	214.57	6.50	
52	Cr	72	1	0.015	ppb	41.41	2.60	
55	Mn	72	1	0.459	ppb	3.66	1.30	
59	Co	72	1	0.003	ppb	66.30	1.30	
60	Ni	72	1	0.002	ppb	102.74	2.60	
63	Cu	72	1	-0.003	ppb	168.59	2.60	
66	Zn	72	1	-0.012	ppb	57.80	13.00	
75	As	72	1	0.002	ppb	149.49	6.50	
78	Se	72	1	0.438	ppb	64.54	6.50	
95	Mo	72	1	0.000	ppb	1683.90	2.60	
107	Ag	115	1	0.001	ppb	14.47	6.50	
111	Cd	115	1	-0.002	ppb	87.67	1.30	
118	Sn	115	1	0.014	ppb	66.31	13.00	
121	Sb	115	1	0.003	ppb	94.75	2.60	
137	Ba	115	1	0.021	ppb	21.13	1.30	
205	Tl	165	1	0.005	ppb	7.39	1.30	
208	Pb	165	1	0.001	ppb	45.22	1.30	
232	Th	165	1	0.006	ppb	7.62	2.60	
238	U	165	1	0.003	ppb	15.47	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	482587	0.57	585126	82.5	30 - 120	
45	Sc	1	2530019	0.97	2674809	94.6	30 - 120	
72	Ge	1	1463198	1.45	1557492	93.9	30 - 120	
115	In	1	4343471	1.79	4523827	96.0	30 - 120	
165	Ho	1	8421348	0.46	9084802	92.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\056_CCV.D\056_CCV.D#
Date Acquired:	Nov 16 2011 01:55 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.34	ppb	4.05	50	104.7	90 - 110	
51	V	72	1	50.73	ppb	1.13	50	101.5	90 - 110	
52	Cr	72	1	50.00	ppb	1.62	50	100.0	90 - 110	
55	Mn	72	1	50.24	ppb	0.70	50	100.5	90 - 110	
59	Co	72	1	50.72	ppb	2.11	50	101.4	90 - 110	
60	Ni	72	1	49.53	ppb	1.32	50	99.1	90 - 110	
63	Cu	72	1	50.62	ppb	0.61	50	101.2	90 - 110	
66	Zn	72	1	49.52	ppb	0.92	50	99.0	90 - 110	
75	As	72	1	50.74	ppb	0.66	50	101.5	90 - 110	
78	Se	72	1	52.00	ppb	1.58	50	104.0	90 - 110	
95	Mo	72	1	48.98	ppb	1.52	50	98.0	90 - 110	
107	Ag	115	1	50.68	ppb	1.56	50	101.4	90 - 110	
111	Cd	115	1	49.84	ppb	1.59	50	99.7	90 - 110	
118	Sn	115	1	48.18	ppb	1.32	50	96.4	90 - 110	
121	Sb	115	1	48.30	ppb	1.73	50	96.6	90 - 110	
137	Ba	115	1	50.12	ppb	2.44	50	100.2	90 - 110	
205	Tl	165	1	50.91	ppb	1.25	50	101.8	90 - 110	
208	Pb	165	1	50.46	ppb	1.19	50	100.9	90 - 110	
232	Th	165	1	51.27	ppb	1.22	50	102.5	90 - 110	
238	U	165	1	50.33	ppb	1.06	50	100.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	481885	1.04	585126	82.4	30 - 120	
45	Sc	1	2497528	0.52	2674809	93.4	30 - 120	
72	Ge	1	1472306	1.00	1557492	94.5	30 - 120	
115	In	1	4298872	1.35	4523827	95.0	30 - 120	
165	Ho	1	8469734	0.87	9084802	93.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\057_CCB.D\057_CCB.D#
Date Acquired:	Nov 16 2011 01:58 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.002	ppb	488.83	1.00	
51	V	72	1	0.003	ppb	74.78	1.00	
52	Cr	72	1	0.000	ppb	2187.40	1.00	
55	Mn	72	1	0.306	ppb	6.64	1.00	
59	Co	72	1	0.006	ppb	34.15	1.00	
60	Ni	72	1	0.009	ppb	52.17	1.00	
63	Cu	72	1	0.006	ppb	72.80	1.00	
66	Zn	72	1	0.015	ppb	32.19	1.00	
75	As	72	1	0.014	ppb	74.48	1.00	
78	Se	72	1	0.102	ppb	322.31	1.00	
95	Mo	72	1	0.007	ppb	101.13	1.00	
107	Ag	115	1	0.009	ppb	31.18	1.00	
111	Cd	115	1	0.004	ppb	117.54	1.00	
118	Sn	115	1	0.034	ppb	19.81	1.00	
121	Sb	115	1	0.008	ppb	18.01	1.00	
137	Ba	115	1	0.018	ppb	4.22	1.00	
205	Tl	165	1	0.015	ppb	5.73	1.00	
208	Pb	165	1	0.007	ppb	6.30	1.00	
232	Th	165	1	0.026	ppb	4.87	1.00	
238	U	165	1	0.009	ppb	10.62	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	480136	0.89	585126	82.1	30 - 120	
45	Sc	1	2527089	0.61	2674809	94.5	30 - 120	
72	Ge	1	1491565	1.50	1557492	95.8	30 - 120	
115	In	1	4298758	0.89	4523827	95.0	30 - 120	
165	Ho	1	8550399	0.92	9084802	94.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\058_BLK.D\058_BLK.D#
Date Acquired: Nov 16 2011 02:01 pm
Operator: TEL
Sample Name: mb 280-94822/1-a
Misc Info: BLANK 94822 6020 DoD4
Vial Number: 2403
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.006 ppb	399.43	2.00	
51 V	72	1	0.006 ppb	173.49	2.00	
52 Cr	72	1	0.028 ppb	21.34	2.00	
55 Mn	72	1	0.367 ppb	5.11	2.00	
59 Co	72	1	0.004 ppb	40.01	2.00	
60 Ni	72	1	0.025 ppb	48.69	2.00	
63 Cu	72	1	0.045 ppb	18.14	2.00	
66 Zn	72	1	1.135 ppb	2.57	2.00	
75 As	72	1	0.007 ppb	74.39	2.00	
78 Se	72	1	-0.009 ppb	1471.40	2.00	
95 Mo	72	1	0.001 ppb	199.63	2.00	
107 Ag	115	1	0.003 ppb	26.84	2.00	
111 Cd	115	1	0.003 ppb	6.42	2.00	
118 Sn	115	1	0.057 ppb	8.45	2.00	
121 Sb	115	1	0.004 ppb	30.67	2.00	
137 Ba	115	1	0.034 ppb	33.13	2.00	
205 Tl	165	1	0.019 ppb	21.80	2.00	
208 Pb	165	1	0.014 ppb	14.37	2.00	
232 Th	165	1	0.018 ppb	14.02	2.00	
238 U	165	1	0.004 ppb	5.82	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	496208	0.72	585126	84.8	30 - 120	
45 Sc	1	2574594	0.61	2674809	96.3	30 - 120	
72 Ge	1	1480636	0.37	1557492	95.1	30 - 120	
115 In	1	4413085	0.47	4523827	97.6	30 - 120	
165 Ho	1	8604209	0.18	9084802	94.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\059_LCS.D\059_LCS.D#
Date Acquired:	Nov 16 2011 02:04 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-94822/2-a
Misc Info:	LCS
Vial Number:	2404
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	41.76	0.32	40	104.4	80 - 120	
51	V	72	1	41.97	1.00	40	104.9	80 - 120	
52	Cr	72	1	41.83	0.64	40	104.6	80 - 120	
55	Mn	72	1	41.31	2.92	40	103.3	80 - 120	
59	Co	72	1	41.91	0.99	40	104.8	80 - 120	
60	Ni	72	1	41.29	1.78	40	103.2	80 - 120	
63	Cu	72	1	41.09	1.92	40	102.7	80 - 120	
66	Zn	72	1	40.27	1.19	40	100.7	80 - 120	
75	As	72	1	40.30	1.10	40	100.8	80 - 120	
78	Se	72	1	41.01	2.63	40	102.5	80 - 120	
95	Mo	72	1	41.48	1.60	40	103.7	80 - 120	
107	Ag	115	1	41.97	1.62	40	104.9	80 - 120	
111	Cd	115	1	39.86	0.83	40	99.7	80 - 120	
118	Sn	115	1	40.60	0.72	40	101.5	80 - 120	
121	Sb	115	1	39.10	0.82	40	97.8	80 - 120	
137	Ba	115	1	41.84	0.81	40	104.6	80 - 120	
205	Tl	165	1	42.41	1.51	40	106.0	80 - 120	
208	Pb	165	1	41.12	0.86	40	102.8	80 - 120	
232	Th	165	1	41.98	0.68	40	105.0	80 - 120	
238	U	165	1	41.75	0.30	40	104.4	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	491398	1.38	585126	84.0	30 - 120	
45	Sc	1	2548252	0.74	2674809	95.3	30 - 120	
72	Ge	1	1471518	1.97	1557492	94.5	30 - 120	
115	In	1	4302458	1.34	4523827	95.1	30 - 120	
165	Ho	1	8565767	1.12	9084802	94.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\060SMPL.D\060SMPL.D#
Date Acquired: Nov 16 2011 02:06 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-21988-a-12-a
Misc Info:
Vial Number: 2405
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.00	0.00	ppb	254.78	3600	
51 V	72	1	0.05	0.05	ppb	26.66	3600	
52 Cr	72	1	0.15	0.15	ppb	10.66	3600	
55 Mn	72	1	0.69	0.69	ppb	2.85	18000	
59 Co	72	1	0.01	0.01	ppb	33.58	3600	
60 Ni	72	1	0.06	0.06	ppb	16.78	3600	
63 Cu	72	1	0.27	0.27	ppb	0.54	3600	
66 Zn	72	1	1.99	1.99	ppb	1.19	3600	
75 As	72	1	0.02	0.02	ppb	36.49	3600	
78 Se	72	1	0.26	0.26	ppb	129.80	3600	
95 Mo	72	1	0.15	0.15	ppb	5.17	3600	
107 Ag	115	1	0.01	0.01	ppb	6.41	3600	
111 Cd	115	1	0.00	0.00	ppb	204.14	3600	
118 Sn	115	1	0.09	0.09	ppb	8.79	3600	
121 Sb	115	1	0.03	0.03	ppb	16.45	3600	
137 Ba	115	1	0.16	0.16	ppb	2.14	3600	
205 Tl	165	1	0.02	0.02	ppb	9.31	3600	
208 Pb	165	1	0.13	0.13	ppb	1.14	3600	
232 Th	165	1	0.04	0.04	ppb	7.28	1000	
238 U	165	1	0.01	0.01	ppb	2.89	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	494612	1.42	585126	84.5	30 - 120	
45 Sc	1	2586031	1.15	2674809	96.7	30 - 120	
72 Ge	1	1487696	0.24	1557492	95.5	30 - 120	
115 In	1	4357427	0.36	4523827	96.3	30 - 120	
165 Ho	1	8640809	0.90	9084802	95.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\061SMPL.D\061SMPL.D#
Date Acquired:	Nov 16 2011 02:09 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22044-c-1-b
Misc Info:	
Vial Number:	2406
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	231.14	3600	
51	V	72	1	0.09	0.09	ppb	28.52	3600	
52	Cr	72	1	0.62	0.62	ppb	0.83	3600	
55	Mn	72	1	0.88	0.88	ppb	2.60	18000	
59	Co	72	1	0.01	0.01	ppb	25.84	3600	
60	Ni	72	1	0.13	0.13	ppb	11.55	3600	
63	Cu	72	1	0.19	0.19	ppb	3.32	3600	
66	Zn	72	1	2.27	2.27	ppb	1.58	3600	
75	As	72	1	0.01	0.01	ppb	14.51	3600	
78	Se	72	1	0.18	0.18	ppb	163.96	3600	
95	Mo	72	1	0.38	0.38	ppb	1.83	3600	
107	Ag	115	1	0.00	0.00	ppb	69.82	3600	
111	Cd	115	1	0.00	0.00	ppb	128.49	3600	
118	Sn	115	1	0.23	0.23	ppb	5.47	3600	
121	Sb	115	1	0.02	0.02	ppb	19.69	3600	
137	Ba	115	1	0.21	0.21	ppb	15.22	3600	
205	Tl	165	1	0.01	0.01	ppb	5.54	3600	
208	Pb	165	1	0.02	0.02	ppb	5.91	3600	
232	Th	165	1	0.01	0.01	ppb	15.33	1000	
238	U	165	1	0.00	0.00	ppb	30.38	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	495916	0.83	585126	84.8	30 - 120	
45	Sc	1	2560763	1.10	2674809	95.7	30 - 120	
72	Ge	1	1495603	0.86	1557492	96.0	30 - 120	
115	In	1	4329851	0.39	4523827	95.7	30 - 120	
165	Ho	1	8624671	0.54	9084802	94.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\062SMPL.D\062SMPL.D#
Date Acquired: Nov 16 2011 02:12 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22231-e-1-a
Misc Info:
Vial Number: 2407
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	247.48	3600	
51	V	72	1	0.04	0.04	ppb	36.08	3600	
52	Cr	72	1	0.20	0.20	ppb	9.70	3600	
55	Mn	72	1	0.99	0.99	ppb	3.48	18000	
59	Co	72	1	0.01	0.01	ppb	22.66	3600	
60	Ni	72	1	0.12	0.12	ppb	8.48	3600	
63	Cu	72	1	0.13	0.13	ppb	13.93	3600	
66	Zn	72	1	1.85	1.85	ppb	2.56	3600	
75	As	72	1	0.02	0.02	ppb	7.37	3600	
78	Se	72	1	0.00	0.00	ppb	6506.00	3600	
95	Mo	72	1	0.10	0.10	ppb	2.47	3600	
107	Ag	115	1	0.00	0.00	ppb	26.51	3600	
111	Cd	115	1	0.00	0.00	ppb	173.42	3600	
118	Sn	115	1	0.09	0.09	ppb	15.92	3600	
121	Sb	115	1	0.00	0.00	ppb	364.88	3600	
137	Ba	115	1	0.29	0.29	ppb	4.80	3600	
205	Tl	165	1	0.00	0.00	ppb	13.47	3600	
208	Pb	165	1	0.01	0.01	ppb	4.81	3600	
232	Th	165	1	0.01	0.01	ppb	20.72	1000	
238	U	165	1	0.00	0.00	ppb	24.33	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	495863	0.29	585126	84.7	30 - 120	
45	Sc	1	2580829	0.60	2674809	96.5	30 - 120	
72	Ge	1	1486384	1.10	1557492	95.4	30 - 120	
115	In	1	4346849	1.19	4523827	96.1	30 - 120	
165	Ho	1	8645901	0.11	9084802	95.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\063SMPL.D\063SMPL.D#
Date Acquired: Nov 16 2011 02:15 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22231-a-2-a
Misc Info:
Vial Number: 2408
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	252.66	3600	
51	V	72	1	0.04	0.04	ppb	4.18	3600	
52	Cr	72	1	0.06	0.06	ppb	4.07	3600	
55	Mn	72	1	0.94	0.94	ppb	5.79	18000	
59	Co	72	1	0.01	0.01	ppb	10.54	3600	
60	Ni	72	1	0.05	0.05	ppb	35.31	3600	
63	Cu	72	1	0.23	0.23	ppb	7.26	3600	
66	Zn	72	1	1.72	1.72	ppb	0.13	3600	
75	As	72	1	0.02	0.02	ppb	86.28	3600	
78	Se	72	1	0.10	0.10	ppb	276.82	3600	
95	Mo	72	1	0.06	0.06	ppb	10.25	3600	
107	Ag	115	1	0.00	0.00	ppb	75.97	3600	
111	Cd	115	1	0.00	0.00	ppb	761.98	3600	
118	Sn	115	1	0.20	0.20	ppb	7.07	3600	
121	Sb	115	1	0.01	0.01	ppb	59.37	3600	
137	Ba	115	1	0.20	0.20	ppb	2.42	3600	
205	Tl	165	1	0.00	0.00	ppb	29.41	3600	
208	Pb	165	1	0.02	0.02	ppb	2.81	3600	
232	Th	165	1	0.01	0.01	ppb	18.01	1000	
238	U	165	1	0.00	0.00	ppb	92.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	498594	1.25	585126	85.2	30 - 120	
45	Sc	1	2573302	0.61	2674809	96.2	30 - 120	
72	Ge	1	1481211	0.98	1557492	95.1	30 - 120	
115	In	1	4402779	0.91	4523827	97.3	30 - 120	
165	Ho	1	8655709	0.12	9084802	95.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\064SMPL.D\064SMPL.D#
Date Acquired:	Nov 16 2011 02:18 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22231-a-3-a
Misc Info:	
Vial Number:	2409
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	-0.01	-0.01	ppb	0.00	3600	
51	V	72	1	0.05	0.05	ppb	20.57	3600	
52	Cr	72	1	0.08	0.08	ppb	5.28	3600	
55	Mn	72	1	0.88	0.88	ppb	3.11	18000	
59	Co	72	1	0.02	0.02	ppb	24.05	3600	
60	Ni	72	1	0.11	0.11	ppb	9.87	3600	
63	Cu	72	1	0.25	0.25	ppb	2.10	3600	
66	Zn	72	1	2.22	2.22	ppb	1.34	3600	
75	As	72	1	0.02	0.02	ppb	20.20	3600	
78	Se	72	1	0.22	0.22	ppb	48.75	3600	
95	Mo	72	1	0.08	0.08	ppb	14.48	3600	
107	Ag	115	1	0.00	0.00	ppb	33.92	3600	
111	Cd	115	1	0.01	0.01	ppb	37.09	3600	
118	Sn	115	1	0.17	0.17	ppb	3.61	3600	
121	Sb	115	1	0.00	0.00	ppb	315.44	3600	
137	Ba	115	1	0.59	0.59	ppb	3.46	3600	
205	Tl	165	1	0.00	0.00	ppb	16.89	3600	
208	Pb	165	1	0.07	0.07	ppb	1.47	3600	
232	Th	165	1	0.00	0.00	ppb	14.04	1000	
238	U	165	1	0.00	0.00	ppb	56.77	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	500474	0.76	585126	85.5	30 - 120	
45	Sc	1	2594940	1.17	2674809	97.0	30 - 120	
72	Ge	1	1495603	0.91	1557492	96.0	30 - 120	
115	In	1	4403420	0.66	4523827	97.3	30 - 120	
165	Ho	1	8689695	1.21	9084802	95.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\065SMPL.D\065SMPL.D#
Date Acquired:	Nov 16 2011 02:21 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22231-a-4-a
Misc Info:	
Vial Number:	2410
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	-0.01	-0.01	ppb	0.00	3600	
51	V	72	1	0.04	0.04	ppb	32.45	3600	
52	Cr	72	1	0.11	0.11	ppb	5.90	3600	
55	Mn	72	1	1.00	1.00	ppb	1.04	18000	
59	Co	72	1	0.01	0.01	ppb	9.75	3600	
60	Ni	72	1	0.11	0.11	ppb	6.56	3600	
63	Cu	72	1	0.22	0.22	ppb	3.53	3600	
66	Zn	72	1	2.30	2.30	ppb	0.51	3600	
75	As	72	1	0.03	0.03	ppb	10.90	3600	
78	Se	72	1	0.36	0.36	ppb	80.43	3600	
95	Mo	72	1	0.10	0.10	ppb	9.71	3600	
107	Ag	115	1	0.00	0.00	ppb	114.38	3600	
111	Cd	115	1	0.00	0.00	ppb	599.13	3600	
118	Sn	115	1	0.16	0.16	ppb	9.51	3600	
121	Sb	115	1	0.00	0.00	ppb	462.44	3600	
137	Ba	115	1	0.37	0.37	ppb	1.31	3600	
205	Tl	165	1	0.01	0.01	ppb	14.67	3600	
208	Pb	165	1	0.07	0.07	ppb	1.71	3600	
232	Th	165	1	0.00	0.00	ppb	18.66	1000	
238	U	165	1	0.00	0.00	ppb	14.07	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501165	1.25	585126	85.7	30 - 120	
45	Sc	1	2561709	1.11	2674809	95.8	30 - 120	
72	Ge	1	1483746	1.43	1557492	95.3	30 - 120	
115	In	1	4375782	0.30	4523827	96.7	30 - 120	
165	Ho	1	8677299	0.41	9084802	95.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\066_CCV.D\066_CCV.D#
Date Acquired:	Nov 16 2011 02:24 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.76	ppb	1.47	50	103.5	90 - 110	
51	V	72	1	50.19	ppb	0.98	50	100.4	90 - 110	
52	Cr	72	1	49.92	ppb	1.21	50	99.8	90 - 110	
55	Mn	72	1	49.70	ppb	0.95	50	99.4	90 - 110	
59	Co	72	1	50.14	ppb	0.59	50	100.3	90 - 110	
60	Ni	72	1	49.50	ppb	0.76	50	99.0	90 - 110	
63	Cu	72	1	49.92	ppb	1.12	50	99.8	90 - 110	
66	Zn	72	1	49.03	ppb	0.71	50	98.1	90 - 110	
75	As	72	1	50.35	ppb	0.52	50	100.7	90 - 110	
78	Se	72	1	50.03	ppb	2.64	50	100.1	90 - 110	
95	Mo	72	1	48.20	ppb	0.61	50	96.4	90 - 110	
107	Ag	115	1	50.08	ppb	1.48	50	100.2	90 - 110	
111	Cd	115	1	49.00	ppb	1.18	50	98.0	90 - 110	
118	Sn	115	1	48.34	ppb	0.20	50	96.7	90 - 110	
121	Sb	115	1	48.38	ppb	0.53	50	96.8	90 - 110	
137	Ba	115	1	50.04	ppb	1.33	50	100.1	90 - 110	
205	Tl	165	1	50.72	ppb	1.23	50	101.4	90 - 110	
208	Pb	165	1	50.22	ppb	0.62	50	100.4	90 - 110	
232	Th	165	1	50.94	ppb	0.93	50	101.9	90 - 110	
238	U	165	1	50.39	ppb	1.51	50	100.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493360	0.39	585126	84.3	30 - 120	
45	Sc	1	2546339	0.41	2674809	95.2	30 - 120	
72	Ge	1	1499731	0.36	1557492	96.3	30 - 120	
115	In	1	4347233	0.86	4523827	96.1	30 - 120	
165	Ho	1	8523580	0.84	9084802	93.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\067_CCB.D\067_CCB.D#
Date Acquired:	Nov 16 2011 02:27 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.002	ppb	538.16	1.00	
51	V	72	1	0.006	ppb	197.81	1.00	
52	Cr	72	1	-0.002	ppb	115.54	1.00	
55	Mn	72	1	0.172	ppb	6.23	1.00	
59	Co	72	1	0.005	ppb	14.31	1.00	
60	Ni	72	1	0.009	ppb	32.42	1.00	
63	Cu	72	1	0.005	ppb	39.49	1.00	
66	Zn	72	1	0.007	ppb	14.86	1.00	
75	As	72	1	0.006	ppb	88.78	1.00	
78	Se	72	1	0.301	ppb	13.24	1.00	
95	Mo	72	1	0.011	ppb	44.77	1.00	
107	Ag	115	1	0.007	ppb	20.43	1.00	
111	Cd	115	1	0.004	ppb	147.21	1.00	
118	Sn	115	1	0.036	ppb	9.09	1.00	
121	Sb	115	1	0.006	ppb	43.36	1.00	
137	Ba	115	1	0.015	ppb	21.75	1.00	
205	Tl	165	1	0.013	ppb	5.05	1.00	
208	Pb	165	1	0.007	ppb	26.07	1.00	
232	Th	165	1	0.033	ppb	13.06	1.00	
238	U	165	1	0.010	ppb	8.04	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	487824	1.02	585126	83.4	30 - 120	
45	Sc	1	2540360	0.91	2674809	95.0	30 - 120	
72	Ge	1	1494643	0.76	1557492	96.0	30 - 120	
115	In	1	4281321	0.48	4523827	94.6	30 - 120	
165	Ho	1	8408484	1.43	9084802	92.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\068SMPL.D\068SMPL.D#
Date Acquired:	Nov 16 2011 02:30 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22231-e-16-a
Misc Info:	
Vial Number:	2411
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	202.03	3600	
51	V	72	1	0.04	0.04	ppb	14.59	3600	
52	Cr	72	1	0.07	0.07	ppb	11.73	3600	
55	Mn	72	1	0.56	0.56	ppb	4.68	18000	
59	Co	72	1	0.01	0.01	ppb	18.18	3600	
60	Ni	72	1	0.08	0.08	ppb	2.48	3600	
63	Cu	72	1	0.19	0.19	ppb	2.37	3600	
66	Zn	72	1	1.61	1.61	ppb	3.22	3600	
75	As	72	1	0.01	0.01	ppb	15.99	3600	
78	Se	72	1	0.30	0.30	ppb	76.20	3600	
95	Mo	72	1	0.01	0.01	ppb	46.40	3600	
107	Ag	115	1	0.00	0.00	ppb	67.05	3600	
111	Cd	115	1	0.00	0.00	ppb	87.35	3600	
118	Sn	115	1	0.06	0.06	ppb	11.19	3600	
121	Sb	115	1	0.00	0.00	ppb	51.57	3600	
137	Ba	115	1	0.15	0.15	ppb	1.58	3600	
205	Tl	165	1	0.01	0.01	ppb	10.34	3600	
208	Pb	165	1	0.02	0.02	ppb	0.52	3600	
232	Th	165	1	0.02	0.02	ppb	12.34	1000	
238	U	165	1	0.00	0.00	ppb	9.25	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	504538	0.52	585126	86.2	30 - 120	
45	Sc	1	2580885	1.35	2674809	96.5	30 - 120	
72	Ge	1	1488554	1.11	1557492	95.6	30 - 120	
115	In	1	4332727	1.19	4523827	95.8	30 - 120	
165	Ho	1	8676554	0.76	9084802	95.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\069SMPL.D\069SMPL.D#
Date Acquired:	Nov 16 2011 02:33 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-e-5-a
Misc Info:	
Vial Number:	2412
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	575.09	3600	
51	V	72	1	0.03	0.03	ppb	9.12	3600	
52	Cr	72	1	0.05	0.05	ppb	14.09	3600	
55	Mn	72	1	0.41	0.41	ppb	2.73	18000	
59	Co	72	1	0.00	0.00	ppb	35.16	3600	
60	Ni	72	1	0.08	0.08	ppb	14.72	3600	
63	Cu	72	1	11.63	11.63	ppb	1.65	3600	
66	Zn	72	1	7.16	7.16	ppb	1.56	3600	
75	As	72	1	0.02	0.02	ppb	22.07	3600	
78	Se	72	1	-0.01	-0.01	ppb	1460.10	3600	
95	Mo	72	1	0.02	0.02	ppb	11.83	3600	
107	Ag	115	1	0.00	0.00	ppb	56.39	3600	
111	Cd	115	1	0.00	0.00	ppb	181.75	3600	
118	Sn	115	1	0.11	0.11	ppb	13.03	3600	
121	Sb	115	1	0.00	0.00	ppb	213.14	3600	
137	Ba	115	1	0.25	0.25	ppb	1.46	3600	
205	Tl	165	1	0.01	0.01	ppb	3.77	3600	
208	Pb	165	1	0.04	0.04	ppb	4.48	3600	
232	Th	165	1	0.01	0.01	ppb	14.97	1000	
238	U	165	1	0.00	0.00	ppb	43.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	498130	0.65	585126	85.1	30 - 120	
45	Sc	1	2584422	0.40	2674809	96.6	30 - 120	
72	Ge	1	1491074	1.04	1557492	95.7	30 - 120	
115	In	1	4344203	0.54	4523827	96.0	30 - 120	
165	Ho	1	8541548	0.36	9084802	94.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\070SMPL.D\070SMPL.D#		
Date Acquired:	Nov 16 2011 02:36 pm		
Acq. Method:	NormISIS.M	**QC Summary:**	
Operator:	TEL	**Analytes:**	**Pass**
Sample Name:	280-22327-i-29-a	**ISTD:**	**Pass**
Misc Info:			
Vial Number:	2501		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 11:25 am		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1216.10	3600	
51	V	72	1	0.04	0.04	ppb	43.29	3600	
52	Cr	72	1	0.15	0.15	ppb	6.00	3600	
55	Mn	72	1	0.58	0.58	ppb	5.16	18000	
59	Co	72	1	0.01	0.01	ppb	17.68	3600	
60	Ni	72	1	0.34	0.34	ppb	5.54	3600	
63	Cu	72	1	0.79	0.79	ppb	1.31	3600	
66	Zn	72	1	2.61	2.61	ppb	1.81	3600	
75	As	72	1	0.02	0.02	ppb	16.10	3600	
78	Se	72	1	0.20	0.20	ppb	14.65	3600	
95	Mo	72	1	0.01	0.01	ppb	59.00	3600	
107	Ag	115	1	0.00	0.00	ppb	71.49	3600	
111	Cd	115	1	0.00	0.00	ppb	303.68	3600	
118	Sn	115	1	0.07	0.07	ppb	4.18	3600	
121	Sb	115	1	0.00	0.00	ppb	40.48	3600	
137	Ba	115	1	0.30	0.30	ppb	1.28	3600	
205	Tl	165	1	0.00	0.00	ppb	13.36	3600	
208	Pb	165	1	0.03	0.03	ppb	5.99	3600	
232	Th	165	1	0.01	0.01	ppb	12.20	1000	
238	U	165	1	0.00	0.00	ppb	998.77	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	495686	1.16	585126	84.7	30 - 120	
45	Sc	1	2593059	0.55	2674809	96.9	30 - 120	
72	Ge	1	1488649	1.42	1557492	95.6	30 - 120	
115	In	1	4353332	0.90	4523827	96.2	30 - 120	
165	Ho	1	8575793	2.70	9084802	94.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\071SMPL.D\071SMPL.D#
Date Acquired: Nov 16 2011 02:38 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22334-a-8-a
Misc Info:
Vial Number: 2502
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.00	0.00	ppb	266.98	3600	
51 V	72	1	0.35	0.35	ppb	4.09	3600	
52 Cr	72	1	0.73	0.73	ppb	2.08	3600	
55 Mn	72	1	2,178.00	2178.00	ppb	0.61	18000	
59 Co	72	1	0.25	0.25	ppb	1.63	3600	
60 Ni	72	1	0.84	0.84	ppb	9.27	3600	
63 Cu	72	1	0.95	0.95	ppb	2.51	3600	
66 Zn	72	1	6.36	6.36	ppb	1.46	3600	
75 As	72	1	3.62	3.62	ppb	1.34	3600	
78 Se	72	1	0.58	0.58	ppb	35.11	3600	
95 Mo	72	1	0.38	0.38	ppb	2.63	3600	
107 Ag	115	1	0.00	0.00	ppb	57.20	3600	
111 Cd	115	1	0.04	0.04	ppb	19.23	3600	
118 Sn	115	1	0.07	0.07	ppb	5.94	3600	
121 Sb	115	1	0.03	0.03	ppb	11.37	3600	
137 Ba	115	1	104.60	104.60	ppb	0.61	3600	
205 Tl	165	1	0.03	0.03	ppb	10.39	3600	
208 Pb	165	1	0.51	0.51	ppb	1.62	3600	
232 Th	165	1	0.01	0.01	ppb	15.96	1000	
238 U	165	1	0.33	0.33	ppb	1.58	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	489665	1.42	585126	83.7	30 - 120	
45 Sc	1	2490089	1.59	2674809	93.1	30 - 120	
72 Ge	1	1417814	0.85	1557492	91.0	30 - 120	
115 In	1	4132094	1.01	4523827	91.3	30 - 120	
165 Ho	1	8255520	0.85	9084802	90.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\072SMPL.D\072SMPL.D#
Date Acquired:	Nov 16 2011 02:41 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22334-a-9-a
Misc Info:	
Vial Number:	2503
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1077.70	3600	
51	V	72	1	0.35	0.35	ppb	3.28	3600	
52	Cr	72	1	0.58	0.58	ppb	2.09	3600	
55	Mn	72	1	2,072.00	2072.00	ppb	0.31	18000	
59	Co	72	1	0.24	0.24	ppb	3.92	3600	
60	Ni	72	1	0.67	0.67	ppb	4.58	3600	
63	Cu	72	1	0.69	0.69	ppb	3.33	3600	
66	Zn	72	1	6.20	6.20	ppb	1.69	3600	
75	As	72	1	3.42	3.42	ppb	0.67	3600	
78	Se	72	1	0.43	0.43	ppb	31.63	3600	
95	Mo	72	1	0.32	0.32	ppb	3.27	3600	
107	Ag	115	1	0.00	0.00	ppb	111.73	3600	
111	Cd	115	1	0.03	0.03	ppb	31.63	3600	
118	Sn	115	1	0.06	0.06	ppb	10.02	3600	
121	Sb	115	1	0.03	0.03	ppb	7.97	3600	
137	Ba	115	1	102.40	102.40	ppb	0.11	3600	
205	Tl	165	1	0.01	0.01	ppb	0.84	3600	
208	Pb	165	1	0.10	0.10	ppb	2.41	3600	
232	Th	165	1	0.01	0.01	ppb	12.21	1000	
238	U	165	1	0.31	0.31	ppb	1.09	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	488271	1.65	585126	83.4	30 - 120	
45	Sc	1	2505151	1.12	2674809	93.7	30 - 120	
72	Ge	1	1402206	1.18	1557492	90.0	30 - 120	
115	In	1	4175672	0.59	4523827	92.3	30 - 120	
165	Ho	1	8393618	1.24	9084802	92.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\073AREF.D\073AREF.D#
Date Acquired: Nov 16 2011 02:44 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22334-a-10-a
Misc Info:
Vial Number: 2504
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.10	0.10	ppb	8.94	3600	
51	V	72	1	2.87	2.87	ppb	2.71	3600	
52	Cr	72	1	3.97	3.97	ppb	1.53	3600	
55	Mn	72	1	1,132.00	1132.00	ppb	1.14	18000	
59	Co	72	1	0.79	0.79	ppb	1.69	3600	
60	Ni	72	1	1.26	1.26	ppb	2.93	3600	
63	Cu	72	1	0.97	0.97	ppb	4.19	3600	
66	Zn	72	1	4.79	4.79	ppb	0.62	3600	
75	As	72	1	60.24	60.24	ppb	0.97	3600	
78	Se	72	1	0.30	0.30	ppb	135.40	3600	
95	Mo	72	1	1.78	1.78	ppb	1.43	3600	
107	Ag	115	1	0.00	0.00	ppb	26.85	3600	
111	Cd	115	1	0.02	0.02	ppb	53.22	3600	
118	Sn	115	1	0.06	0.06	ppb	16.56	3600	
121	Sb	115	1	0.04	0.04	ppb	11.07	3600	
137	Ba	115	1	135.10	135.10	ppb	0.21	3600	
205	Tl	165	1	0.00	0.00	ppb	33.43	3600	
208	Pb	165	1	0.46	0.46	ppb	1.71	3600	
232	Th	165	1	0.37	0.37	ppb	2.92	1000	
238	U	165	1	0.05	0.05	ppb	1.04	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	473557	0.39	585126	80.9	30 - 120	
45	Sc	1	2444387	0.50	2674809	91.4	30 - 120	
72	Ge	1	1372860	0.66	1557492	88.1	30 - 120	
115	In	1	4068971	1.61	4523827	89.9	30 - 120	
165	Ho	1	8057664	0.18	9084802	88.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\074SDIL.D\074SDIL.D#
Date Acquired: Nov 16 2011 02:47 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22334-a-10-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2505
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\073AREF.D\073AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)			Flag
9	Be	6	1	0.02	ppb	70.38	0.02	102.2	90	-	110	
51	V	72	1	0.54	ppb	2.72	0.57	93.3	90	-	110	
52	Cr	72	1	0.79	ppb	1.36	0.79	98.9	90	-	110	
55	Mn	72	1	219.10	ppb	1.30	226.40	96.8	90	-	110	
59	Co	72	1	0.16	ppb	5.05	0.16	101.0	90	-	110	
60	Ni	72	1	0.50	ppb	7.91	0.25	200.1	90	-	110	
63	Cu	72	1	0.21	ppb	4.56	0.19	109.3	90	-	110	
66	Zn	72	1	1.18	ppb	2.19	0.96	123.7	90	-	110	
75	As	72	1	12.21	ppb	1.20	12.05	101.3	90	-	110	
78	Se	72	1	0.29	ppb	33.45	0.06	485.3	90	-	110	
95	Mo	72	1	0.36	ppb	3.67	0.36	100.3	90	-	110	
107	Ag	115	1	0.00	ppb	69.71	0.00	100.4	90	-	110	
111	Cd	115	1	0.01	ppb	80.14	0.00	130.3	90	-	110	
118	Sn	115	1	0.07	ppb	7.74	0.01	572.2	90	-	110	
121	Sb	115	1	0.01	ppb	48.29	0.01	62.4	90	-	110	
137	Ba	115	1	26.97	ppb	1.31	27.02	99.8	90	-	110	
205	Tl	165	1	0.00	ppb	380.92	0.00	42.1	90	-	110	
208	Pb	165	1	0.10	ppb	2.37	0.09	105.1	90	-	110	
232	Th	165	1	0.07	ppb	6.14	0.07	97.3	90	-	110	
238	U	165	1	0.01	ppb	1.89	0.01	102.6	90	-	110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	493012	1.60	585126	84.3	30	-	120	
45	Sc	1	2528688	1.00	2674809	94.5	30	-	120	
72	Ge	1	1498952	1.75	1557492	96.2	30	-	120	
115	In	1	4313641	0.97	4523827	95.4	30	-	120	
165	Ho	1	8394612	0.53	9084802	92.4	30	-	120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\075PDS.D\075PDS.D#	
Date Acquired:	Nov 16 2011 02:50 pm	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	TEL	**ISTD: Pass**
Sample Name:	280-22334-a-10-a PDS	
Misc Info:	POST DIGESTION SPIKE	
Vial Number:	2506	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 16 2011 11:25 am	
Sample Type:	PDS	
Prep Dil. Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	
Spike Ref. File:	---	

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	210.60	0.10	ppb	1.46	200	105.2	75 - 125	
51	V	72	1	209.40	2.87	ppb	2.07	200	103.2	75 - 125	
52	Cr	72	1	204.40	3.97	ppb	2.48	200	100.2	75 - 125	
55	Mn	72	1	1323.00	1132.00	ppb	2.41	200	99.3	75 - 125	
59	Co	72	1	196.50	0.79	ppb	2.29	200	97.9	75 - 125	
60	Ni	72	1	201.90	1.26	ppb	2.93	200	100.3	75 - 125	
63	Cu	72	1	191.30	0.97	ppb	2.31	200	95.2	75 - 125	
66	Zn	72	1	190.00	4.78	ppb	1.93	200	92.8	75 - 125	
75	As	72	1	263.10	60.24	ppb	2.34	200	101.1	75 - 125	
78	Se	72	1	200.20	0.30	ppb	2.08	200	100.0	75 - 125	
95	Mo	72	1	214.40	1.78	ppb	2.76	200	106.3	75 - 125	
107	Ag	115	1	47.14	0.00	ppb	2.90	50	94.3	75 - 125	
111	Cd	115	1	195.00	0.02	ppb	2.38	200	97.5	75 - 125	
118	Sn	115	1	198.10	0.06	ppb	3.69	200	99.0	75 - 125	
121	Sb	115	1	194.90	0.04	ppb	2.58	200	97.4	75 - 125	
137	Ba	115	1	344.80	135.10	ppb	3.62	200	102.9	75 - 125	
205	Tl	165	1	193.60	0.00	ppb	2.98	200	96.8	75 - 125	
208	Pb	165	1	189.80	0.46	ppb	3.08	200	94.7	75 - 125	
232	Th	165	1	0.41	0.37	ppb	1.61	200	0.2	75 - 125	
238	U	165	1	198.20	0.05	ppb	3.86	200	99.1	75 - 125	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	464143	0.90	585126	79.3	30 - 120	
45	Sc	1	2407378	2.18	2674809	90.0	30 - 120	
72	Ge	1	1356083	2.11	1557492	87.1	30 - 120	
115	In	1	4011961	2.51	4523827	88.7	30 - 120	
165	Ho	1	7991128	3.01	9084802	88.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\076_CCV.D\076_CCV.D#
Date Acquired:	Nov 16 2011 02:53 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.29	ppb	2.22	50	104.6	90 - 110	
51	V	72	1	51.28	ppb	1.24	50	102.6	90 - 110	
52	Cr	72	1	50.60	ppb	0.49	50	101.2	90 - 110	
55	Mn	72	1	51.14	ppb	0.69	50	102.3	90 - 110	
59	Co	72	1	50.80	ppb	1.21	50	101.6	90 - 110	
60	Ni	72	1	49.79	ppb	1.06	50	99.6	90 - 110	
63	Cu	72	1	49.91	ppb	2.50	50	99.8	90 - 110	
66	Zn	72	1	49.41	ppb	1.05	50	98.8	90 - 110	
75	As	72	1	50.80	ppb	1.17	50	101.6	90 - 110	
78	Se	72	1	52.05	ppb	2.96	50	104.1	90 - 110	
95	Mo	72	1	49.06	ppb	0.88	50	98.1	90 - 110	
107	Ag	115	1	50.25	ppb	1.55	50	100.5	90 - 110	
111	Cd	115	1	49.50	ppb	1.25	50	99.0	90 - 110	
118	Sn	115	1	48.29	ppb	1.42	50	96.6	90 - 110	
121	Sb	115	1	48.49	ppb	1.03	50	97.0	90 - 110	
137	Ba	115	1	50.60	ppb	1.15	50	101.2	90 - 110	
205	Tl	165	1	50.88	ppb	0.89	50	101.8	90 - 110	
208	Pb	165	1	49.75	ppb	0.52	50	99.5	90 - 110	
232	Th	165	1	50.05	ppb	0.77	50	100.1	90 - 110	
238	U	165	1	50.02	ppb	0.31	50	100.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	484521	0.44	585126	82.8	30 - 120	
45	Sc	1	2549099	0.69	2674809	95.3	30 - 120	
72	Ge	1	1480000	1.15	1557492	95.0	30 - 120	
115	In	1	4317029	1.01	4523827	95.4	30 - 120	
165	Ho	1	8485020	0.38	9084802	93.4	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\077_CCB.D\077_CCB.D#
Date Acquired:	Nov 16 2011 02:56 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.016	ppb	51.74	1.00	
51	V	72	1	0.006	ppb	68.25	1.00	
52	Cr	72	1	0.011	ppb	53.47	1.00	
55	Mn	72	1	0.198	ppb	4.96	1.00	
59	Co	72	1	0.011	ppb	13.06	1.00	
60	Ni	72	1	0.010	ppb	21.27	1.00	
63	Cu	72	1	0.016	ppb	34.93	1.00	
66	Zn	72	1	0.023	ppb	64.56	1.00	
75	As	72	1	0.027	ppb	24.93	1.00	
78	Se	72	1	0.119	ppb	124.50	1.00	
95	Mo	72	1	0.026	ppb	47.24	1.00	
107	Ag	115	1	0.010	ppb	27.80	1.00	
111	Cd	115	1	0.010	ppb	2.97	1.00	
118	Sn	115	1	0.067	ppb	17.06	1.00	
121	Sb	115	1	0.017	ppb	29.75	1.00	
137	Ba	115	1	0.026	ppb	21.28	1.00	
205	Tl	165	1	0.022	ppb	0.74	1.00	
208	Pb	165	1	0.013	ppb	12.31	1.00	
232	Th	165	1	0.028	ppb	9.84	1.00	
238	U	165	1	0.019	ppb	14.23	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	482744	1.16	585126	82.5	30 - 120	
45	Sc	1	2557096	1.56	2674809	95.6	30 - 120	
72	Ge	1	1483238	1.66	1557492	95.2	30 - 120	
115	In	1	4340048	1.46	4523827	95.9	30 - 120	
165	Ho	1	8459452	0.34	9084802	93.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\078_MS.D\078_MS.D#		
Date Acquired:	Nov 16 2011 02:59 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	TEL	ISTD:	Pass
Sample Name:	280-22334-a-10-b ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	2507		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 11:25 am		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	44.02	0.10	ppb	1.96	40	109.8	50 - 150	
51	V	72	1	48.17	2.87	ppb	1.35	40	112.4	50 - 150	
52	Cr	72	1	47.35	3.97	ppb	2.11	40	107.7	50 - 150	
55	Mn	72	1	1150.00	1132.00	ppb	2.13	40	98.1	50 - 150	
59	Co	72	1	43.54	0.79	ppb	1.98	40	106.7	50 - 150	
60	Ni	72	1	41.99	1.26	ppb	1.13	40	101.8	50 - 150	
63	Cu	72	1	39.79	0.97	ppb	2.00	40	97.1	50 - 150	
66	Zn	72	1	43.78	4.78	ppb	1.88	40	97.8	50 - 150	
75	As	72	1	101.50	60.24	ppb	1.86	40	101.3	50 - 150	
78	Se	72	1	44.24	0.30	ppb	2.98	40	109.8	50 - 150	
95	Mo	72	1	45.46	1.78	ppb	1.62	40	108.8	50 - 150	
107	Ag	115	1	39.96	0.00	ppb	0.88	40	99.9	50 - 150	
111	Cd	115	1	40.80	0.02	ppb	0.73	40	101.9	50 - 150	
118	Sn	115	1	40.63	0.06	ppb	0.48	40	101.4	50 - 150	
121	Sb	115	1	40.48	0.04	ppb	0.59	40	101.1	50 - 150	
137	Ba	115	1	177.70	135.10	ppb	0.26	40	101.5	50 - 150	
205	Tl	165	1	42.21	0.00	ppb	1.34	40	105.5	50 - 150	
208	Pb	165	1	40.52	0.46	ppb	1.04	40	100.1	50 - 150	
232	Th	165	1	43.23	0.37	ppb	1.04	40	107.1	50 - 150	
238	U	165	1	42.96	0.05	ppb	1.74	40	107.3	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	472954	1.07	585126	80.8	30 - 120	
45	Sc	1	2459159	0.77	2674809	91.9	30 - 120	
72	Ge	1	1387299	1.79	1557492	89.1	30 - 120	
115	In	1	4037628	0.45	4523827	89.3	30 - 120	
165	Ho	1	8067898	0.98	9084802	88.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\079_MSD.D\079_MSD.D#
Date Acquired: Nov 16 2011 03:02 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22334-a-10-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 2508
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\078_MS.D\078_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	44.05	ppb	2.00	44.02	0.07	20	
51	V	72	1	48.67	ppb	3.08	48.17	1.03	20	
52	Cr	72	1	47.90	ppb	2.58	47.35	1.15	20	
55	Mn	72	1	1176.00	ppb	2.53	1150.00	2.24	20	
59	Co	72	1	44.49	ppb	2.06	43.54	2.16	20	
60	Ni	72	1	42.61	ppb	0.93	41.99	1.47	20	
63	Cu	72	1	40.60	ppb	0.86	39.79	2.02	20	
66	Zn	72	1	43.73	ppb	1.27	43.78	0.11	20	
75	As	72	1	103.40	ppb	1.16	101.50	1.85	20	
78	Se	72	1	42.21	ppb	1.23	44.24	4.70	20	
95	Mo	72	1	45.72	ppb	1.69	45.46	0.57	20	
107	Ag	115	1	39.72	ppb	1.10	39.96	0.60	20	
111	Cd	115	1	40.48	ppb	1.17	40.80	0.79	20	
118	Sn	115	1	40.28	ppb	0.95	40.63	0.87	20	
121	Sb	115	1	39.77	ppb	0.30	40.48	1.77	20	
137	Ba	115	1	177.30	ppb	0.72	177.70	0.23	20	
205	Tl	165	1	42.22	ppb	2.19	42.21	0.02	20	
208	Pb	165	1	40.54	ppb	1.54	40.52	0.05	20	
232	Th	165	1	43.19	ppb	1.44	43.23	0.09	20	
238	U	165	1	42.93	ppb	2.47	42.96	0.07	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	468910	1.64	585126	80.1	30 - 120	
45	Sc	1	2465719	0.53	2674809	92.2	30 - 120	
72	Ge	1	1381194	0.67	1557492	88.7	30 - 120	
115	In	1	4097294	0.19	4523827	90.6	30 - 120	
165	Ho	1	8156191	1.14	9084802	89.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\080SMPL.D\080SMPL.D#
Date Acquired: Nov 16 2011 03:04 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22334-a-12-a
Misc Info:
Vial Number: 2509
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.08	0.08	ppb	26.87	3600	
51 V	72	1	9.72	9.72	ppb	1.99	3600	
52 Cr	72	1	1.87	1.87	ppb	2.02	3600	
55 Mn	72	1	114.10	114.10	ppb	0.68	18000	
59 Co	72	1	1.15	1.15	ppb	0.61	3600	
60 Ni	72	1	4.10	4.10	ppb	0.60	3600	
63 Cu	72	1	8.38	8.38	ppb	1.28	3600	
66 Zn	72	1	9.01	9.01	ppb	0.45	3600	
75 As	72	1	12.05	12.05	ppb	1.47	3600	
78 Se	72	1	0.75	0.75	ppb	12.89	3600	
95 Mo	72	1	5.09	5.09	ppb	1.75	3600	
107 Ag	115	1	0.01	0.01	ppb	6.21	3600	
111 Cd	115	1	0.24	0.24	ppb	8.82	3600	
118 Sn	115	1	0.20	0.20	ppb	1.89	3600	
121 Sb	115	1	1.38	1.38	ppb	0.24	3600	
137 Ba	115	1	37.79	37.79	ppb	0.61	3600	
205 Tl	165	1	0.03	0.03	ppb	6.97	3600	
208 Pb	165	1	4.21	4.21	ppb	0.45	3600	
232 Th	165	1	0.10	0.10	ppb	2.92	1000	
238 U	165	1	4.58	4.58	ppb	0.71	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	483739	0.80	585126	82.7	30 - 120	
45 Sc	1	2530391	0.79	2674809	94.6	30 - 120	
72 Ge	1	1411597	1.46	1557492	90.6	30 - 120	
115 In	1	4200440	0.91	4523827	92.9	30 - 120	
165 Ho	1	8164374	0.57	9084802	89.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\081SMPL.D\081SMPL.D#
Date Acquired:	Nov 16 2011 03:07 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22334-a-13-a
Misc Info:	
Vial Number:	2510
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.19	0.19	ppb	15.52	3600	
51	V	72	1	4.79	4.79	ppb	1.56	3600	
52	Cr	72	1	1.83	1.83	ppb	1.78	3600	
55	Mn	72	1	1,534.00	1534.00	ppb	1.57	18000	
59	Co	72	1	0.28	0.28	ppb	5.58	3600	
60	Ni	72	1	0.61	0.61	ppb	4.90	3600	
63	Cu	72	1	0.81	0.81	ppb	1.88	3600	
66	Zn	72	1	2.44	2.44	ppb	0.84	3600	
75	As	72	1	7.68	7.68	ppb	3.35	3600	
78	Se	72	1	0.37	0.37	ppb	31.27	3600	
95	Mo	72	1	1.15	1.15	ppb	1.87	3600	
107	Ag	115	1	0.01	0.01	ppb	3.46	3600	
111	Cd	115	1	0.05	0.05	ppb	60.30	3600	
118	Sn	115	1	0.05	0.05	ppb	13.85	3600	
121	Sb	115	1	0.08	0.08	ppb	5.51	3600	
137	Ba	115	1	51.05	51.05	ppb	1.10	3600	
205	Tl	165	1	0.01	0.01	ppb	9.64	3600	
208	Pb	165	1	0.45	0.45	ppb	1.40	3600	
232	Th	165	1	0.18	0.18	ppb	2.59	1000	
238	U	165	1	0.19	0.19	ppb	3.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	482390	0.63	585126	82.4	30 - 120	
45	Sc	1	2526319	1.46	2674809	94.4	30 - 120	
72	Ge	1	1452865	0.76	1557492	93.3	30 - 120	
115	In	1	4229376	0.61	4523827	93.5	30 - 120	
165	Ho	1	8359656	0.66	9084802	92.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\082SMPL.D\082SMPL.D#
Date Acquired:	Nov 16 2011 03:10 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22334-a-15-a
Misc Info:	
Vial Number:	2511
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	53.96	3600	
51	V	72	1	1.36	1.36	ppb	3.21	3600	
52	Cr	72	1	0.92	0.92	ppb	1.59	3600	
55	Mn	72	1	757.00	757.00	ppb	1.26	18000	
59	Co	72	1	2.63	2.63	ppb	1.91	3600	
60	Ni	72	1	1.49	1.49	ppb	1.48	3600	
63	Cu	72	1	1.79	1.79	ppb	3.97	3600	
66	Zn	72	1	2.78	2.78	ppb	0.49	3600	
75	As	72	1	5.14	5.14	ppb	1.44	3600	
78	Se	72	1	0.58	0.58	ppb	18.59	3600	
95	Mo	72	1	1.72	1.72	ppb	1.83	3600	
107	Ag	115	1	0.00	0.00	ppb	18.21	3600	
111	Cd	115	1	0.14	0.14	ppb	12.77	3600	
118	Sn	115	1	0.07	0.07	ppb	12.52	3600	
121	Sb	115	1	0.03	0.03	ppb	6.19	3600	
137	Ba	115	1	20.41	20.41	ppb	0.63	3600	
205	Tl	165	1	0.02	0.02	ppb	3.72	3600	
208	Pb	165	1	0.19	0.19	ppb	2.55	3600	
232	Th	165	1	0.19	0.19	ppb	2.41	1000	
238	U	165	1	1.20	1.20	ppb	1.35	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	481112	0.76	585126	82.2	30 - 120	
45	Sc	1	2546957	0.60	2674809	95.2	30 - 120	
72	Ge	1	1430705	1.56	1557492	91.9	30 - 120	
115	In	1	4176699	0.72	4523827	92.3	30 - 120	
165	Ho	1	8323616	0.06	9084802	91.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\083AREF.D\083AREF.D#
Date Acquired: Nov 16 2011 03:13 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22334-a-16-a
Misc Info:
Vial Number: 2512
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.20	0.20	ppb	19.12	3600	
51	V	72	1	8.03	8.03	ppb	1.44	3600	
52	Cr	72	1	2.67	2.67	ppb	0.77	3600	
55	Mn	72	1	571.80	571.80	ppb	1.09	18000	
59	Co	72	1	4.71	4.71	ppb	0.65	3600	
60	Ni	72	1	1.42	1.42	ppb	2.67	3600	
63	Cu	72	1	0.21	0.21	ppb	3.34	3600	
66	Zn	72	1	2.85	2.85	ppb	1.27	3600	
75	As	72	1	4.73	4.73	ppb	1.49	3600	
78	Se	72	1	0.56	0.56	ppb	37.10	3600	
95	Mo	72	1	0.25	0.25	ppb	8.84	3600	
107	Ag	115	1	0.00	0.00	ppb	59.11	3600	
111	Cd	115	1	0.06	0.06	ppb	15.73	3600	
118	Sn	115	1	0.07	0.07	ppb	4.32	3600	
121	Sb	115	1	0.08	0.08	ppb	3.69	3600	
137	Ba	115	1	152.90	152.90	ppb	0.84	3600	
205	Tl	165	1	0.00	0.00	ppb	18.64	3600	
208	Pb	165	1	0.06	0.06	ppb	3.43	3600	
232	Th	165	1	0.09	0.09	ppb	0.88	1000	
238	U	165	1	0.04	0.04	ppb	2.24	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	460030	1.29	585126	78.6	30 - 120	
45	Sc	1	2437323	1.23	2674809	91.1	30 - 120	
72	Ge	1	1411167	1.64	1557492	90.6	30 - 120	
115	In	1	4085766	0.29	4523827	90.3	30 - 120	
165	Ho	1	8125719	0.57	9084802	89.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\084_MS.D\084_MS.D#
Date Acquired:	Nov 16 2011 03:16 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22334-a-16-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	3101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	45.38	0.20	ppb	2.02	40	112.9	50 - 150	
51	V	72	1	50.53	8.03	ppb	0.61	40	105.2	50 - 150	
52	Cr	72	1	43.55	2.67	ppb	2.30	40	102.1	50 - 150	
55	Mn	72	1	591.90	571.80	ppb	0.62	40	96.7	50 - 150	
59	Co	72	1	46.31	4.71	ppb	0.83	40	103.6	50 - 150	
60	Ni	72	1	41.00	1.42	ppb	1.08	40	99.0	50 - 150	
63	Cu	72	1	38.11	0.21	ppb	1.01	40	94.8	50 - 150	
66	Zn	72	1	40.45	2.85	ppb	0.89	40	94.4	50 - 150	
75	As	72	1	44.66	4.73	ppb	0.88	40	99.8	50 - 150	
78	Se	72	1	40.44	0.56	ppb	3.50	40	99.7	50 - 150	
95	Mo	72	1	41.83	0.25	ppb	0.82	40	103.9	50 - 150	
107	Ag	115	1	39.53	0.00	ppb	1.65	40	98.8	50 - 150	
111	Cd	115	1	40.30	0.06	ppb	0.63	40	100.6	50 - 150	
118	Sn	115	1	40.81	0.07	ppb	0.55	40	101.8	50 - 150	
121	Sb	115	1	39.70	0.08	ppb	0.72	40	99.1	50 - 150	
137	Ba	115	1	196.70	152.90	ppb	2.08	40	102.0	50 - 150	
205	Tl	165	1	41.11	0.00	ppb	1.39	40	102.8	50 - 150	
208	Pb	165	1	40.29	0.06	ppb	1.64	40	100.6	50 - 150	
232	Th	165	1	42.26	0.09	ppb	2.17	40	105.4	50 - 150	
238	U	165	1	41.75	0.04	ppb	2.52	40	104.3	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	451319	0.83	585126	77.1	30 - 120	
45	Sc	1	2454634	0.66	2674809	91.8	30 - 120	
72	Ge	1	1445983	1.40	1557492	92.8	30 - 120	
115	In	1	4135642	0.72	4523827	91.4	30 - 120	
165	Ho	1	8186621	1.35	9084802	90.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\085_MSD.D\085_MSD.D#
Date Acquired: Nov 16 2011 03:19 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22334-a-16-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\084_MS.D\084_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	43.35	ppb	1.95	45.38	4.58	20	
51	V	72	1	51.29	ppb	1.29	50.53	1.49	20	
52	Cr	72	1	44.24	ppb	1.20	43.55	1.57	20	
55	Mn	72	1	606.00	ppb	0.46	591.90	2.35	20	
59	Co	72	1	46.66	ppb	0.46	46.31	0.75	20	
60	Ni	72	1	41.88	ppb	2.01	41.00	2.12	20	
63	Cu	72	1	39.11	ppb	1.59	38.11	2.59	20	
66	Zn	72	1	41.21	ppb	1.06	40.45	1.86	20	
75	As	72	1	45.90	ppb	1.24	44.66	2.74	20	
78	Se	72	1	40.48	ppb	2.84	40.44	0.10	20	
95	Mo	72	1	42.68	ppb	0.88	41.83	2.01	20	
107	Ag	115	1	40.15	ppb	1.79	39.53	1.56	20	
111	Cd	115	1	40.10	ppb	1.10	40.30	0.50	20	
118	Sn	115	1	40.82	ppb	1.42	40.81	0.02	20	
121	Sb	115	1	40.12	ppb	1.51	39.70	1.05	20	
137	Ba	115	1	195.30	ppb	2.00	196.70	0.71	20	
205	Tl	165	1	42.18	ppb	1.22	41.11	2.57	20	
208	Pb	165	1	40.77	ppb	0.69	40.29	1.18	20	
232	Th	165	1	43.05	ppb	1.32	42.26	1.85	20	
238	U	165	1	42.49	ppb	1.51	41.75	1.76	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	455052	0.65	585126	77.8	30 - 120	
45	Sc	1	2470849	1.67	2674809	92.4	30 - 120	
72	Ge	1	1422839	1.26	1557492	91.4	30 - 120	
115	In	1	4154965	1.33	4523827	91.8	30 - 120	
165	Ho	1	8127426	1.09	9084802	89.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\086_CCV.D\086_CCV.D#
Date Acquired:	Nov 16 2011 03:22 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.65	ppb	3.42	50	105.3	90 - 110	
51	V	72	1	51.27	ppb	0.36	50	102.5	90 - 110	
52	Cr	72	1	50.38	ppb	1.14	50	100.8	90 - 110	
55	Mn	72	1	50.28	ppb	0.35	50	100.6	90 - 110	
59	Co	72	1	51.11	ppb	0.62	50	102.2	90 - 110	
60	Ni	72	1	49.92	ppb	1.59	50	99.8	90 - 110	
63	Cu	72	1	50.18	ppb	1.21	50	100.4	90 - 110	
66	Zn	72	1	49.22	ppb	0.47	50	98.4	90 - 110	
75	As	72	1	50.59	ppb	0.26	50	101.2	90 - 110	
78	Se	72	1	52.40	ppb	4.92	50	104.8	90 - 110	
95	Mo	72	1	48.80	ppb	0.82	50	97.6	90 - 110	
107	Ag	115	1	50.39	ppb	0.41	50	100.8	90 - 110	
111	Cd	115	1	49.36	ppb	0.73	50	98.7	90 - 110	
118	Sn	115	1	47.97	ppb	1.81	50	95.9	90 - 110	
121	Sb	115	1	48.58	ppb	0.59	50	97.2	90 - 110	
137	Ba	115	1	50.43	ppb	0.76	50	100.9	90 - 110	
205	Tl	165	1	51.48	ppb	0.42	50	103.0	90 - 110	
208	Pb	165	1	49.56	ppb	1.04	50	99.1	90 - 110	
232	Th	165	1	49.80	ppb	1.47	50	99.6	90 - 110	
238	U	165	1	49.76	ppb	2.75	50	99.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	468182	0.91	585126	80.0	30 - 120	
45	Sc	1	2541734	1.85	2674809	95.0	30 - 120	
72	Ge	1	1501920	1.32	1557492	96.4	30 - 120	
115	In	1	4374962	0.79	4523827	96.7	30 - 120	
165	Ho	1	8543389	0.32	9084802	94.0	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\087_CCB.D\087_CCB.D#
Date Acquired:	Nov 16 2011 03:25 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.002	ppb	880.46	1.00	
51	V	72	1	0.002	ppb	338.09	1.00	
52	Cr	72	1	0.003	ppb	191.68	1.00	
55	Mn	72	1	0.155	ppb	6.17	1.00	
59	Co	72	1	0.007	ppb	26.13	1.00	
60	Ni	72	1	0.008	ppb	81.74	1.00	
63	Cu	72	1	0.009	ppb	51.85	1.00	
66	Zn	72	1	0.013	ppb	68.92	1.00	
75	As	72	1	0.013	ppb	54.89	1.00	
78	Se	72	1	0.451	ppb	9.50	1.00	
95	Mo	72	1	0.015	ppb	10.22	1.00	
107	Ag	115	1	0.009	ppb	18.98	1.00	
111	Cd	115	1	-0.001	ppb	399.22	1.00	
118	Sn	115	1	0.039	ppb	12.11	1.00	
121	Sb	115	1	0.017	ppb	20.55	1.00	
137	Ba	115	1	0.023	ppb	7.22	1.00	
205	Tl	165	1	0.009	ppb	21.45	1.00	
208	Pb	165	1	0.007	ppb	6.79	1.00	
232	Th	165	1	0.022	ppb	12.29	1.00	
238	U	165	1	0.012	ppb	11.83	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	472797	0.59	585126	80.8	30 - 120	
45	Sc	1	2567666	1.65	2674809	96.0	30 - 120	
72	Ge	1	1525417	0.41	1557492	97.9	30 - 120	
115	In	1	4338307	0.41	4523827	95.9	30 - 120	
165	Ho	1	8498002	1.07	9084802	93.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\088WASH.D\088WASH.D#
Date Acquired: Nov 16 2011 03:28 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.038 ppb	16.54	1.30	
51	V	72	1	5.091 ppb	1.48	6.50	
52	Cr	72	1	2.069 ppb	0.61	2.60	
55	Mn	72	1	1.176 ppb	3.04	1.30	
59	Co	72	1	1.033 ppb	1.90	1.30	
60	Ni	72	1	2.097 ppb	4.02	2.60	
63	Cu	72	1	2.057 ppb	1.78	2.60	
66	Zn	72	1	10.230 ppb	1.78	13.00	
75	As	72	1	5.374 ppb	1.07	6.50	
78	Se	72	1	5.743 ppb	2.22	6.50	
95	Mo	72	1	2.004 ppb	3.67	2.60	
107	Ag	115	1	5.005 ppb	2.47	6.50	
111	Cd	115	1	1.070 ppb	3.75	1.30	
118	Sn	115	1	10.150 ppb	1.71	13.00	
121	Sb	115	1	2.000 ppb	1.31	2.60	
137	Ba	115	1	1.068 ppb	0.66	1.30	
205	Tl	165	1	1.049 ppb	1.10	1.30	
208	Pb	165	1	1.022 ppb	1.59	1.30	
232	Th	165	1	2.079 ppb	1.66	2.60	
238	U	165	1	1.005 ppb	0.71	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	481087	0.30	585126	82.2	30 - 120	
45	Sc	1	2624581	0.86	2674809	98.1	30 - 120	
72	Ge	1	1537166	1.31	1557492	98.7	30 - 120	
115	In	1	4480896	0.88	4523827	99.1	30 - 120	
165	Ho	1	8675379	1.39	9084802	95.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\089_BLK.D\089_BLK.D#	
Date Acquired:	Nov 16 2011 03:31 pm	
Operator:	TEL	**QC Summary:**
Sample Name:	mb 280-96328/1-a	**Analytes: Pass**
Misc Info:	BLANK 96328 6020A	**ISTD: Pass**
Vial Number:	3103	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal Update:	Nov 16 2011 11:25 am	
Sample Type:	BLK	
Total Dil Factor:	1.00	

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.003	ppb	282.39	2.00	
51	V	72	1	0.006	ppb	135.77	2.00	
52	Cr	72	1	0.031	ppb	18.33	2.00	
55	Mn	72	1	0.134	ppb	2.90	2.00	
59	Co	72	1	0.000	ppb	199.58	2.00	
60	Ni	72	1	0.012	ppb	63.80	2.00	
63	Cu	72	1	0.059	ppb	5.41	2.00	
66	Zn	72	1	1.131	ppb	1.76	2.00	
75	As	72	1	0.002	ppb	266.31	2.00	
78	Se	72	1	0.329	ppb	87.29	2.00	
95	Mo	72	1	-0.001	ppb	310.25	2.00	
107	Ag	115	1	0.003	ppb	30.46	2.00	
111	Cd	115	1	-0.003	ppb	266.25	2.00	
118	Sn	115	1	0.040	ppb	9.19	2.00	
121	Sb	115	1	0.002	ppb	90.66	2.00	
137	Ba	115	1	0.119	ppb	8.60	2.00	
205	Tl	165	1	0.002	ppb	31.87	2.00	
208	Pb	165	1	0.011	ppb	5.05	2.00	
232	Th	165	1	0.009	ppb	21.46	2.00	
238	U	165	1	0.002	ppb	15.31	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	477132	1.35	585126	81.5	30 - 120	
45	Sc	1	2620523	0.91	2674809	98.0	30 - 120	
72	Ge	1	1530626	0.66	1557492	98.3	30 - 120	
115	In	1	4424433	0.81	4523827	97.8	30 - 120	
165	Ho	1	8620385	1.23	9084802	94.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\090_LCS.D\090_LCS.D#
Date Acquired:	Nov 16 2011 03:33 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-96328/2-a
Misc Info:	LCS
Vial Number:	3104
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	44.61	1.67	40	111.5	80 - 120	
51	V	72	1	42.27	1.21	40	105.7	80 - 120	
52	Cr	72	1	41.46	0.19	40	103.7	80 - 120	
55	Mn	72	1	40.77	1.76	40	101.9	80 - 120	
59	Co	72	1	41.50	1.44	40	103.8	80 - 120	
60	Ni	72	1	40.62	1.23	40	101.6	80 - 120	
63	Cu	72	1	40.69	1.62	40	101.7	80 - 120	
66	Zn	72	1	42.30	0.92	40	105.8	80 - 120	
75	As	72	1	42.83	1.16	40	107.1	80 - 120	
78	Se	72	1	44.36	1.93	40	110.9	80 - 120	
95	Mo	72	1	40.27	1.69	40	100.7	80 - 120	
107	Ag	115	1	41.45	2.85	40	103.6	80 - 120	
111	Cd	115	1	41.08	1.91	40	102.7	80 - 120	
118	Sn	115	1	40.59	2.69	40	101.5	80 - 120	
121	Sb	115	1	40.09	1.87	40	100.2	80 - 120	
137	Ba	115	1	41.72	2.08	40	104.3	80 - 120	
205	Tl	165	1	42.46	1.16	40	106.2	80 - 120	
208	Pb	165	1	41.95	2.07	40	104.9	80 - 120	
232	Th	165	1	41.98	1.10	40	105.0	80 - 120	
238	U	165	1	41.97	0.89	40	104.9	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	486683	0.83	585126	83.2	30 - 120	
45	Sc	1	2645081	2.02	2674809	98.9	30 - 120	
72	Ge	1	1546690	1.33	1557492	99.3	30 - 120	
115	In	1	4457646	2.06	4523827	98.5	30 - 120	
165	Ho	1	8565986	1.17	9084802	94.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\091SMPL.D\091SMPL.D#
Date Acquired:	Nov 16 2011 03:36 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-1-d
Misc Info:	
Vial Number:	3105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	304.41	3600	
51	V	72	1	0.10	0.10	ppb	17.86	3600	
52	Cr	72	1	0.10	0.10	ppb	27.10	3600	
55	Mn	72	1	1,789.00	1789.00	ppb	15.51	18000	
59	Co	72	1	4.43	4.43	ppb	16.24	3600	
60	Ni	72	1	10.35	10.35	ppb	17.30	3600	
63	Cu	72	1	0.64	0.64	ppb	16.13	3600	
66	Zn	72	1	4.78	4.78	ppb	15.46	3600	
75	As	72	1	3.77	3.77	ppb	16.15	3600	
78	Se	72	1	8.62	8.62	ppb	25.60	3600	
95	Mo	72	1	3.52	3.52	ppb	17.31	3600	
107	Ag	115	1	0.01	0.01	ppb	46.93	3600	
111	Cd	115	1	0.04	0.04	ppb	49.01	3600	
118	Sn	115	1	0.04	0.04	ppb	32.47	3600	
121	Sb	115	1	0.08	0.08	ppb	13.83	3600	
137	Ba	115	1	99.44	99.44	ppb	19.78	3600	
205	Tl	165	1	0.03	0.03	ppb	32.47	3600	
208	Pb	165	1	0.04	0.04	ppb	19.43	3600	
232	Th	165	1	0.05	0.05	ppb	10.18	1000	
238	U	165	1	16.60	16.60	ppb	18.59	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	432815	11.34	585126	74.0	30 - 120	
45	Sc	1	2164971	16.84	2674809	80.9	30 - 120	
72	Ge	1	1220242	13.78	1557492	78.3	30 - 120	
115	In	1	3527179	17.17	4523827	78.0	30 - 120	
165	Ho	1	7017384	16.02	9084802	77.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\092SMPL.D\092SMPL.D#
Date Acquired: Nov 16 2011 03:39 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-2-d
Misc Info:
Vial Number: 3106
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	890.82	3600	
51	V	72	1	0.07	0.07	ppb	21.42	3600	
52	Cr	72	1	0.09	0.09	ppb	6.84	3600	
55	Mn	72	1	3,166.00	3166.00	ppb	0.21	18000	
59	Co	72	1	0.42	0.42	ppb	2.34	3600	
60	Ni	72	1	8.14	8.14	ppb	0.74	3600	
63	Cu	72	1	0.14	0.14	ppb	0.45	3600	
66	Zn	72	1	1.98	1.98	ppb	2.29	3600	
75	As	72	1	11.81	11.81	ppb	1.30	3600	
78	Se	72	1	0.28	0.28	ppb	102.18	3600	
95	Mo	72	1	6.89	6.89	ppb	1.10	3600	
107	Ag	115	1	0.00	0.00	ppb	36.84	3600	
111	Cd	115	1	0.01	0.01	ppb	110.49	3600	
118	Sn	115	1	0.02	0.02	ppb	25.99	3600	
121	Sb	115	1	0.03	0.03	ppb	6.69	3600	
137	Ba	115	1	113.30	113.30	ppb	1.23	3600	
205	Tl	165	1	0.01	0.01	ppb	13.05	3600	
208	Pb	165	1	0.01	0.01	ppb	30.31	3600	
232	Th	165	1	0.01	0.01	ppb	15.65	1000	
238	U	165	1	0.27	0.27	ppb	0.77	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	464084	1.32	585126	79.3	30 - 120	
45	Sc	1	2406679	2.49	2674809	90.0	30 - 120	
72	Ge	1	1334228	1.03	1557492	85.7	30 - 120	
115	In	1	3845198	1.52	4523827	85.0	30 - 120	
165	Ho	1	7779325	0.10	9084802	85.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\093SMPL.D\093SMPL.D#
Date Acquired: Nov 16 2011 03:42 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-3-d
Misc Info:
Vial Number: 3107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	465.94	3600	
51	V	72	1	0.27	0.27	ppb	2.21	3600	
52	Cr	72	1	0.10	0.10	ppb	9.56	3600	
55	Mn	72	1	970.10	970.10	ppb	0.62	18000	
59	Co	72	1	3.21	3.21	ppb	1.74	3600	
60	Ni	72	1	16.27	16.27	ppb	1.90	3600	
63	Cu	72	1	0.51	0.51	ppb	5.55	3600	
66	Zn	72	1	6.36	6.36	ppb	1.16	3600	
75	As	72	1	4.18	4.18	ppb	2.34	3600	
78	Se	72	1	0.34	0.34	ppb	44.61	3600	
95	Mo	72	1	1.08	1.08	ppb	0.28	3600	
107	Ag	115	1	0.00	0.00	ppb	54.37	3600	
111	Cd	115	1	0.05	0.05	ppb	17.29	3600	
118	Sn	115	1	0.03	0.03	ppb	3.91	3600	
121	Sb	115	1	0.09	0.09	ppb	12.15	3600	
137	Ba	115	1	254.80	254.80	ppb	0.43	3600	
205	Tl	165	1	0.05	0.05	ppb	1.01	3600	
208	Pb	165	1	0.01	0.01	ppb	2.85	3600	
232	Th	165	1	0.00	0.00	ppb	30.37	1000	
238	U	165	1	17.64	17.64	ppb	1.84	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	478074	0.83	585126	81.7	30 - 120	
45	Sc	1	2412199	1.29	2674809	90.2	30 - 120	
72	Ge	1	1334163	1.14	1557492	85.7	30 - 120	
115	In	1	3875102	1.11	4523827	85.7	30 - 120	
165	Ho	1	7811820	0.32	9084802	86.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\094AREF.D\094AREF.D#
Date Acquired:	Nov 16 2011 03:45 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-4-k
Misc Info:	
Vial Number:	3108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	294.33	3600	
51	V	72	1	0.16	0.16	ppb	2.79	3600	
52	Cr	72	1	0.06	0.06	ppb	3.14	3600	
55	Mn	72	1	1,803.00	1803.00	ppb	1.59	18000	
59	Co	72	1	0.17	0.17	ppb	7.77	3600	
60	Ni	72	1	1.15	1.15	ppb	1.53	3600	
63	Cu	72	1	0.17	0.17	ppb	9.61	3600	
66	Zn	72	1	2.00	2.00	ppb	3.06	3600	
75	As	72	1	20.91	20.91	ppb	1.89	3600	
78	Se	72	1	0.37	0.37	ppb	21.94	3600	
95	Mo	72	1	0.31	0.31	ppb	4.15	3600	
107	Ag	115	1	0.00	0.00	ppb	12.71	3600	
111	Cd	115	1	0.01	0.01	ppb	108.66	3600	
118	Sn	115	1	0.03	0.03	ppb	15.84	3600	
121	Sb	115	1	0.05	0.05	ppb	3.46	3600	
137	Ba	115	1	475.80	475.80	ppb	1.43	3600	
205	Tl	165	1	0.00	0.00	ppb	9.58	3600	
208	Pb	165	1	0.01	0.01	ppb	4.94	3600	
232	Th	165	1	0.01	0.01	ppb	28.57	1000	
238	U	165	1	0.04	0.04	ppb	2.34	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	465946	0.33	585126	79.6	30 - 120	
45	Sc	1	2405009	0.61	2674809	89.9	30 - 120	
72	Ge	1	1368770	1.27	1557492	87.9	30 - 120	
115	In	1	3950101	0.83	4523827	87.3	30 - 120	
165	Ho	1	7815788	1.25	9084802	86.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\095SDIL.D\095SDIL.D#
Date Acquired: Nov 16 2011 03:48 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-4-k SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 11:25 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\094AREF.D\094AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.01	ppb	197.90	0.00	-1879.1	90 - 110	
51	V	72	1	0.02	ppb	38.69	0.03	75.8	90 - 110	
52	Cr	72	1	0.01	ppb	41.61	0.01	68.6	90 - 110	
55	Mn	72	1	360.90	ppb	0.80	360.60	100.1	90 - 110	
59	Co	72	1	0.04	ppb	5.38	0.03	105.4	90 - 110	
60	Ni	72	1	0.24	ppb	12.79	0.23	106.6	90 - 110	
63	Cu	72	1	0.04	ppb	9.36	0.03	128.7	90 - 110	
66	Zn	72	1	0.52	ppb	0.09	0.40	130.7	90 - 110	
75	As	72	1	4.24	ppb	2.07	4.18	101.4	90 - 110	
78	Se	72	1	0.32	ppb	131.76	0.07	424.7	90 - 110	
95	Mo	72	1	0.06	ppb	5.21	0.06	93.3	90 - 110	
107	Ag	115	1	0.00	ppb	18.20	0.00	465.9	90 - 110	
111	Cd	115	1	0.00	ppb	185.42	0.00	147.2	90 - 110	
118	Sn	115	1	0.03	ppb	4.20	0.01	418.7	90 - 110	
121	Sb	115	1	0.01	ppb	28.30	0.01	82.0	90 - 110	
137	Ba	115	1	92.89	ppb	0.56	95.16	97.6	90 - 110	
205	Tl	165	1	0.00	ppb	15.34	0.00	419.8	90 - 110	
208	Pb	165	1	0.00	ppb	26.72	0.00	182.7	90 - 110	
232	Th	165	1	0.00	ppb	16.23	0.00	342.3	90 - 110	
238	U	165	1	0.01	ppb	9.80	0.01	124.1	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	490493	0.80	585126	83.8	30 - 120	
45	Sc	1	2528433	1.19	2674809	94.5	30 - 120	
72	Ge	1	1487690	0.45	1557492	95.5	30 - 120	
115	In	1	4281012	0.40	4523827	94.6	30 - 120	
165	Ho	1	8291152	1.67	9084802	91.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\096PDS.D\096PDS.D#
Date Acquired:	Nov 16 2011 03:51 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-4-k PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	211.90	0.00	ppb	1.17	200	106.0	75 - 125	
51 V	72	1	202.90	0.16	ppb	0.92	200	101.4	75 - 125	
52 Cr	72	1	194.80	0.06	ppb	0.68	200	97.4	75 - 125	
55 Mn	72	1	1963.00	1803.00	ppb	0.46	200	98.0	75 - 125	
59 Co	72	1	189.30	0.17	ppb	0.85	200	94.6	75 - 125	
60 Ni	72	1	194.20	1.15	ppb	1.14	200	96.5	75 - 125	
63 Cu	72	1	179.50	0.17	ppb	0.27	200	89.7	75 - 125	
66 Zn	72	1	185.80	2.00	ppb	0.54	200	92.0	75 - 125	
75 As	72	1	230.70	20.91	ppb	0.21	200	104.4	75 - 125	
78 Se	72	1	209.10	0.37	ppb	1.24	200	104.4	75 - 125	
95 Mo	72	1	209.00	0.31	ppb	0.74	200	104.3	75 - 125	
107 Ag	115	1	46.49	0.00	ppb	1.75	50	93.0	75 - 125	
111 Cd	115	1	196.20	0.01	ppb	0.72	200	98.1	75 - 125	
118 Sn	115	1	197.20	0.03	ppb	0.64	200	98.6	75 - 125	
121 Sb	115	1	200.80	0.05	ppb	0.73	200	100.4	75 - 125	
137 Ba	115	1	671.30	475.80	ppb	0.84	200	99.3	75 - 125	
205 Tl	165	1	187.50	0.00	ppb	0.40	200	93.7	75 - 125	
208 Pb	165	1	183.00	0.01	ppb	0.60	200	91.5	75 - 125	
232 Th	165	1	0.06	0.01	ppb	7.37	200	0.0	75 - 125	
238 U	165	1	191.60	0.04	ppb	0.97	200	95.8	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	454902	0.62	585126	77.7	30 - 120	
45 Sc	1	2348936	0.67	2674809	87.8	30 - 120	
72 Ge	1	1339554	0.47	1557492	86.0	30 - 120	
115 In	1	3885785	0.24	4523827	85.9	30 - 120	
165 Ho	1	7690006	0.19	9084802	84.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\097_CCV.D\097_CCV.D#
Date Acquired:	Nov 16 2011 03:54 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	54.22	ppb	0.88	50	108.4	90 - 110	
51	V	72	1	50.91	ppb	1.21	50	101.8	90 - 110	
52	Cr	72	1	50.00	ppb	1.14	50	100.0	90 - 110	
55	Mn	72	1	50.81	ppb	0.75	50	101.6	90 - 110	
59	Co	72	1	50.41	ppb	1.01	50	100.8	90 - 110	
60	Ni	72	1	49.66	ppb	1.19	50	99.3	90 - 110	
63	Cu	72	1	49.90	ppb	0.95	50	99.8	90 - 110	
66	Zn	72	1	49.50	ppb	0.39	50	99.0	90 - 110	
75	As	72	1	50.68	ppb	0.34	50	101.4	90 - 110	
78	Se	72	1	51.83	ppb	1.09	50	103.7	90 - 110	
95	Mo	72	1	48.76	ppb	0.56	50	97.5	90 - 110	
107	Ag	115	1	50.09	ppb	1.43	50	100.2	90 - 110	
111	Cd	115	1	49.36	ppb	0.72	50	98.7	90 - 110	
118	Sn	115	1	48.01	ppb	0.03	50	96.0	90 - 110	
121	Sb	115	1	48.54	ppb	1.24	50	97.1	90 - 110	
137	Ba	115	1	50.35	ppb	1.24	50	100.7	90 - 110	
205	Tl	165	1	50.60	ppb	0.43	50	101.2	90 - 110	
208	Pb	165	1	49.68	ppb	0.31	50	99.4	90 - 110	
232	Th	165	1	49.73	ppb	1.31	50	99.5	90 - 110	
238	U	165	1	49.80	ppb	1.13	50	99.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	477846	1.01	585126	81.7	30 - 120	
45	Sc	1	2544684	0.94	2674809	95.1	30 - 120	
72	Ge	1	1487519	0.63	1557492	95.5	30 - 120	
115	In	1	4315873	1.38	4523827	95.4	30 - 120	
165	Ho	1	8330198	0.22	9084802	91.7	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\098_CCB.D\098_CCB.D#
Date Acquired:	Nov 16 2011 03:57 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 11:25 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.007	ppb	219.55	1.00	
51	V	72	1	0.012	ppb	43.02	1.00	
52	Cr	72	1	0.007	ppb	30.92	1.00	
55	Mn	72	1	0.145	ppb	10.88	1.00	
59	Co	72	1	0.006	ppb	43.39	1.00	
60	Ni	72	1	0.013	ppb	34.75	1.00	
63	Cu	72	1	0.004	ppb	123.05	1.00	
66	Zn	72	1	0.009	ppb	122.19	1.00	
75	As	72	1	0.018	ppb	12.73	1.00	
78	Se	72	1	0.202	ppb	67.16	1.00	
95	Mo	72	1	0.016	ppb	34.85	1.00	
107	Ag	115	1	0.008	ppb	26.76	1.00	
111	Cd	115	1	-0.001	ppb	758.26	1.00	
118	Sn	115	1	0.057	ppb	15.72	1.00	
121	Sb	115	1	0.017	ppb	18.55	1.00	
137	Ba	115	1	0.021	ppb	9.27	1.00	
205	Tl	165	1	0.019	ppb	6.93	1.00	
208	Pb	165	1	0.009	ppb	9.70	1.00	
232	Th	165	1	0.023	ppb	4.56	1.00	
238	U	165	1	0.016	ppb	3.93	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	475918	0.63	585126	81.3	30 - 120	
45	Sc	1	2537268	0.97	2674809	94.9	30 - 120	
72	Ge	1	1494541	0.77	1557492	96.0	30 - 120	
115	In	1	4309500	0.47	4523827	95.3	30 - 120	
165	Ho	1	8282281	0.84	9084802	91.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\099WASH.D\099WASH.D#
Date Acquired: Nov 16 2011 03:59 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.097 ppb	18.27	1.30	
51	V	72	1	5.111 ppb	0.82	6.50	
52	Cr	72	1	2.087 ppb	1.35	2.60	
55	Mn	72	1	1.176 ppb	2.64	1.30	
59	Co	72	1	1.016 ppb	2.33	1.30	
60	Ni	72	1	2.139 ppb	2.24	2.60	
63	Cu	72	1	2.019 ppb	1.10	2.60	
66	Zn	72	1	10.240 ppb	1.06	13.00	
75	As	72	1	5.286 ppb	0.83	6.50	
78	Se	72	1	5.649 ppb	6.15	6.50	
95	Mo	72	1	2.010 ppb	4.73	2.60	
107	Ag	115	1	5.066 ppb	2.69	6.50	
111	Cd	115	1	1.091 ppb	3.01	1.30	
118	Sn	115	1	10.300 ppb	1.92	13.00	
121	Sb	115	1	2.024 ppb	1.75	2.60	
137	Ba	115	1	1.095 ppb	5.46	1.30	
205	Tl	165	1	1.046 ppb	0.90	1.30	
208	Pb	165	1	1.028 ppb	1.62	1.30	
232	Th	165	1	2.048 ppb	0.77	2.60	
238	U	165	1	1.011 ppb	1.31	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492425	0.83	585126	84.2	30 - 120	
45	Sc	1	2572520	1.70	2674809	96.2	30 - 120	
72	Ge	1	1504673	0.53	1557492	96.6	30 - 120	
115	In	1	4352220	2.74	4523827	96.2	30 - 120	
165	Ho	1	8407748	0.56	9084802	92.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\100WASH.D\100WASH.D#
Date Acquired: Nov 16 2011 04:02 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.024	ppb	132.78	1.30	
51	V	72	1	0.194	ppb	46.97	6.50	
52	Cr	72	1	1.532	ppb	3.32	2.60	
55	Mn	72	1	0.828	ppb	1.37	1.30	
59	Co	72	1	0.073	ppb	3.59	1.30	
60	Ni	72	1	1.233	ppb	5.22	2.60	
63	Cu	72	1	0.559	ppb	2.99	2.60	
66	Zn	72	1	2.796	ppb	1.71	13.00	
75	As	72	1	0.614	ppb	6.42	6.50	
78	Se	72	1	0.558	ppb	23.41	6.50	
95	Mo	72	1	2098.000	ppb	1.59	2.60	
107	Ag	115	1	0.069	ppb	13.28	6.50	
111	Cd	115	1	0.725	ppb	18.05	1.30	
118	Sn	115	1	0.202	ppb	22.38	13.00	
121	Sb	115	1	0.296	ppb	3.32	2.60	
137	Ba	115	1	0.764	ppb	3.96	1.30	
205	Tl	165	1	0.050	ppb	13.59	1.30	
208	Pb	165	1	0.176	ppb	2.12	1.30	
232	Th	165	1	0.032	ppb	12.75	2.60	
238	U	165	1	0.008	ppb	9.48	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	437202	1.26	585126	74.7	30 - 120	
45	Sc	1	2180425	1.13	2674809	81.5	30 - 120	
72	Ge	1	1252085	0.98	1557492	80.4	30 - 120	
115	In	1	3557152	1.14	4523827	78.6	30 - 120	
165	Ho	1	7082821	0.73	9084802	78.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\101WASH.D\101WASH.D#
Date Acquired: Nov 16 2011 04:05 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.003	ppb	288.47	1.30	
51	V	72	1	-0.001	ppb	2799.80	6.50	
52	Cr	72	1	0.013	ppb	33.35	2.60	
55	Mn	72	1	0.089	ppb	4.96	1.30	
59	Co	72	1	0.001	ppb	113.94	1.30	
60	Ni	72	1	0.005	ppb	58.61	2.60	
63	Cu	72	1	0.005	ppb	35.92	2.60	
66	Zn	72	1	-0.012	ppb	34.39	13.00	
75	As	72	1	0.014	ppb	69.02	6.50	
78	Se	72	1	0.218	ppb	96.80	6.50	
95	Mo	72	1	0.362	ppb	9.45	2.60	
107	Ag	115	1	0.002	ppb	23.82	6.50	
111	Cd	115	1	-0.004	ppb	117.43	1.30	
118	Sn	115	1	0.012	ppb	18.08	13.00	
121	Sb	115	1	-0.001	ppb	367.53	2.60	
137	Ba	115	1	0.004	ppb	26.22	1.30	
205	Tl	165	1	0.006	ppb	14.70	1.30	
208	Pb	165	1	-0.001	ppb	86.38	1.30	
232	Th	165	1	0.003	ppb	51.84	2.60	
238	U	165	1	0.002	ppb	8.92	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	475993	1.58	585126	81.3	30 - 120	
45	Sc	1	2456226	2.26	2674809	91.8	30 - 120	
72	Ge	1	1470815	1.76	1557492	94.4	30 - 120	
115	In	1	4308183	0.93	4523827	95.2	30 - 120	
165	Ho	1	8336058	0.51	9084802	91.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\102WASH.D\102WASH.D#
Date Acquired: Nov 16 2011 04:08 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.002 ppb	485.07	1.30	
51 V	72	1	-0.001 ppb	739.59	6.50	
52 Cr	72	1	0.012 ppb	7.81	2.60	
55 Mn	72	1	0.079 ppb	11.97	1.30	
59 Co	72	1	0.002 ppb	65.61	1.30	
60 Ni	72	1	-0.001 ppb	335.84	2.60	
63 Cu	72	1	0.001 ppb	609.52	2.60	
66 Zn	72	1	-0.010 ppb	81.71	13.00	
75 As	72	1	0.006 ppb	60.36	6.50	
78 Se	72	1	0.389 ppb	61.82	6.50	
95 Mo	72	1	0.089 ppb	7.12	2.60	
107 Ag	115	1	0.001 ppb	37.88	6.50	
111 Cd	115	1	-0.002 ppb	71.76	1.30	
118 Sn	115	1	0.008 ppb	54.28	13.00	
121 Sb	115	1	-0.003 ppb	47.45	2.60	
137 Ba	115	1	0.004 ppb	86.13	1.30	
205 Tl	165	1	0.002 ppb	15.99	1.30	
208 Pb	165	1	-0.001 ppb	59.93	1.30	
232 Th	165	1	0.003 ppb	30.21	2.60	
238 U	165	1	0.001 ppb	6.57	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	479980	0.15	585126	82.0	30 - 120	
45 Sc	1	2587992	1.16	2674809	96.8	30 - 120	
72 Ge	1	1496448	0.76	1557492	96.1	30 - 120	
115 In	1	4403418	0.28	4523827	97.3	30 - 120	
165 Ho	1	8439667	0.19	9084802	92.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\103WASH.D\103WASH.D#
Date Acquired: Nov 16 2011 04:11 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.003	ppb	255.58	1.30	
51	V	72	1	0.009	ppb	20.14	6.50	
52	Cr	72	1	0.011	ppb	61.88	2.60	
55	Mn	72	1	0.061	ppb	4.41	1.30	
59	Co	72	1	0.002	ppb	47.09	1.30	
60	Ni	72	1	-0.003	ppb	55.83	2.60	
63	Cu	72	1	-0.003	ppb	96.82	2.60	
66	Zn	72	1	-0.019	ppb	19.24	13.00	
75	As	72	1	0.011	ppb	62.94	6.50	
78	Se	72	1	0.317	ppb	52.36	6.50	
95	Mo	72	1	0.050	ppb	17.00	2.60	
107	Ag	115	1	0.001	ppb	153.45	6.50	
111	Cd	115	1	-0.001	ppb	470.73	1.30	
118	Sn	115	1	0.007	ppb	12.37	13.00	
121	Sb	115	1	-0.003	ppb	59.03	2.60	
137	Ba	115	1	0.004	ppb	40.37	1.30	
205	Tl	165	1	0.001	ppb	5.51	1.30	
208	Pb	165	1	-0.001	ppb	57.36	1.30	
232	Th	165	1	0.002	ppb	9.11	2.60	
238	U	165	1	0.001	ppb	33.40	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	486175	1.24	585126	83.1	30 - 120	
45	Sc	1	2553256	1.06	2674809	95.5	30 - 120	
72	Ge	1	1521747	0.50	1557492	97.7	30 - 120	
115	In	1	4384282	0.56	4523827	96.9	30 - 120	
165	Ho	1	8447442	1.00	9084802	93.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\104WASH.D\104WASH.D#
Date Acquired: Nov 16 2011 04:14 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 11:25 am
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.008	ppb	0.00	1.30	
51	V	72	1	-0.004	ppb	401.27	6.50	
52	Cr	72	1	0.012	ppb	68.09	2.60	
55	Mn	72	1	0.070	ppb	20.08	1.30	
59	Co	72	1	0.001	ppb	307.22	1.30	
60	Ni	72	1	-0.003	ppb	181.05	2.60	
63	Cu	72	1	-0.003	ppb	248.09	2.60	
66	Zn	72	1	-0.013	ppb	18.08	13.00	
75	As	72	1	0.011	ppb	81.61	6.50	
78	Se	72	1	0.323	ppb	97.77	6.50	
95	Mo	72	1	0.031	ppb	16.70	2.60	
107	Ag	115	1	0.000	ppb	7.88	6.50	
111	Cd	115	1	-0.002	ppb	96.95	1.30	
118	Sn	115	1	0.004	ppb	98.23	13.00	
121	Sb	115	1	-0.004	ppb	38.87	2.60	
137	Ba	115	1	0.002	ppb	328.23	1.30	
205	Tl	165	1	0.000	ppb	404.53	1.30	
208	Pb	165	1	-0.002	ppb	31.32	1.30	
232	Th	165	1	0.001	ppb	119.76	2.60	
238	U	165	1	0.001	ppb	86.14	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489573	1.03	585126	83.7	30 - 120	
45	Sc	1	2626764	1.05	2674809	98.2	30 - 120	
72	Ge	1	1527031	0.08	1557492	98.0	30 - 120	
115	In	1	4381708	1.47	4523827	96.9	30 - 120	
165	Ho	1	8566946	1.27	9084802	94.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\105CALB.D\105CALB.D#
Date Acquired:	Nov 16 2011 04:17 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	Cal Blank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 11:25 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
51	V	72	1	291	58.62
52	Cr	72	1	1810	6.40
55	Mn	72	1	2860	0.62
59	Co	72	1	203	56.58
60	Ni	72	1	227	11.23
63	Cu	72	1	977	5.16
66	Zn	72	1	401	3.82
75	As	72	1	109	7.49
78	Se	72	1	403	14.32
95	Mo	72	1	380	14.77
107	Ag	115	1	113	6.27
111	Cd	115	1	40	78.28
118	Sn	115	1	430	5.04
121	Sb	115	1	121	28.95
137	Ba	115	1	166	8.90
205	Tl	165	1	448	7.77
208	Pb	165	1	1264	1.33
232	Th	165	1	487	11.27
238	U	165	1	537	11.22

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	484912	0.65
45	Sc	1	2571304	0.60
72	Ge	1	1504883	0.13
115	In	1	4325473	1.59
165	Ho	1	8321989	1.84

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#
Date Acquired:	Nov 16 2011 04:20 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1131044
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:18 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	3	173.23
51	V	72	1	163	111.38
52	Cr	72	1	1723	24.59
55	Mn	72	1	2864	4.21
59	Co	72	1	163	8.43
60	Ni	72	1	187	15.49
63	Cu	72	1	893	7.80
66	Zn	72	1	327	3.04
75	As	72	1	103	7.70
78	Se	72	1	373	4.80
95	Mo	72	1	183	33.63
107	Ag	115	1	40	90.09
111	Cd	115	1	50	71.21
118	Sn	115	1	297	23.81
121	Sb	115	1	59	31.41
137	Ba	115	1	127	12.66
205	Tl	165	1	254	6.00
208	Pb	165	1	931	9.29
232	Th	165	1	210	16.75
238	U	165	1	211	6.24

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	488646	0.65
45	Sc	1	2529221	1.00
72	Ge	1	1504199	1.62
115	In	1	4300457	0.74
165	Ho	1	8234026	0.63

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\107ICAL.D\107ICAL.D#
Date Acquired:	Nov 16 2011 04:23 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1131031
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:21 pm
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	73677	1.11
51	V	72	1	2224101	2.01
52	Cr	72	1	2347723	0.79
55	Mn	72	1	2138124	1.73
59	Co	72	1	3294861	2.45
60	Ni	72	1	789957	1.25
63	Cu	72	1	1961538	1.40
66	Zn	72	1	318800	1.10
75	As	72	1	228914	1.39
78	Se	72	1	35374	0.90
95	Mo	72	1	913432	0.92
107	Ag	115	1	2843596	0.75
111	Cd	115	1	458724	0.43
118	Sn	115	1	1243401	0.41
121	Sb	115	1	1291254	0.76
137	Ba	115	1	560378	0.82
205	Tl	165	1	4928293	2.02
208	Pb	165	1	6745388	1.30
232	Th	165	1	6675383	1.28
238	U	165	1	7226306	2.14

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	485834	0.45	488646	99.4	30 - 120	
45	Sc	1	2539578	1.57	2529221	100.4	30 - 120	
72	Ge	1	1478431	1.58	1504199	98.3	30 - 120	
115	In	1	4328375	0.63	4300457	100.6	30 - 120	
165	Ho	1	8292201	1.01	8234026	100.7	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\108_CCV.D\108_CCV.D#
Date Acquired:	Nov 16 2011 04:26 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.25	ppb	11.94	50	104.5	90 - 110	
51	V	72	1	51.57	ppb	7.72	50	103.1	90 - 110	
52	Cr	72	1	52.04	ppb	6.45	50	104.1	90 - 110	
55	Mn	72	1	52.42	ppb	8.49	50	104.8	90 - 110	
59	Co	72	1	52.49	ppb	6.36	50	105.0	90 - 110	
60	Ni	72	1	51.59	ppb	7.28	50	103.2	90 - 110	
63	Cu	72	1	51.50	ppb	9.11	50	103.0	90 - 110	
66	Zn	72	1	51.50	ppb	7.61	50	103.0	90 - 110	
75	As	72	1	51.43	ppb	7.72	50	102.9	90 - 110	
78	Se	72	1	50.98	ppb	6.86	50	102.0	90 - 110	
95	Mo	72	1	51.30	ppb	7.60	50	102.6	90 - 110	
107	Ag	115	1	52.91	ppb	9.68	50	105.8	90 - 110	
111	Cd	115	1	52.64	ppb	10.91	50	105.3	90 - 110	
118	Sn	115	1	50.69	ppb	10.74	50	101.4	90 - 110	
121	Sb	115	1	50.81	ppb	10.34	50	101.6	90 - 110	
137	Ba	115	1	52.24	ppb	10.33	50	104.5	90 - 110	
205	Tl	165	1	53.19	ppb	10.00	50	106.4	90 - 110	
208	Pb	165	1	52.32	ppb	10.13	50	104.6	90 - 110	
232	Th	165	1	53.09	ppb	10.91	50	106.2	90 - 110	
238	U	165	1	52.51	ppb	10.51	50	105.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	464065	7.38	488646	95.0	30 - 120	
45	Sc	1	2419249	8.28	2529221	95.7	30 - 120	
72	Ge	1	1431349	6.58	1504199	95.2	30 - 120	
115	In	1	4135947	9.25	4300457	96.2	30 - 120	
165	Ho	1	7934280	9.00	8234026	96.4	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\109_CCB.D\109_CCB.D#
Date Acquired: Nov 16 2011 04:28 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.018	ppb	113.97	1.00	
51	V	72	1	0.009	ppb	36.33	1.00	
52	Cr	72	1	0.012	ppb	63.10	1.00	
55	Mn	72	1	0.003	ppb	133.93	1.00	
59	Co	72	1	0.005	ppb	26.47	1.00	
60	Ni	72	1	0.011	ppb	4.61	1.00	
63	Cu	72	1	0.001	ppb	357.91	1.00	
66	Zn	72	1	0.018	ppb	31.59	1.00	
75	As	72	1	0.016	ppb	54.14	1.00	
78	Se	72	1	0.176	ppb	202.50	1.00	
95	Mo	72	1	0.016	ppb	31.62	1.00	
107	Ag	115	1	0.009	ppb	15.82	1.00	
111	Cd	115	1	0.003	ppb	128.44	1.00	
118	Sn	115	1	0.046	ppb	3.56	1.00	
121	Sb	115	1	0.017	ppb	25.71	1.00	
137	Ba	115	1	0.002	ppb	229.23	1.00	
205	Tl	165	1	0.023	ppb	7.19	1.00	
208	Pb	165	1	0.009	ppb	2.37	1.00	
232	Th	165	1	0.042	ppb	4.49	1.00	
238	U	165	1	0.013	ppb	5.76	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	481517	0.20	488646	98.5	30 - 120	
45	Sc	1	2520002	0.62	2529221	99.6	30 - 120	
72	Ge	1	1463004	1.16	1504199	97.3	30 - 120	
115	In	1	4258906	0.78	4300457	99.0	30 - 120	
165	Ho	1	8321606	0.72	8234026	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\110WASH.D\110WASH.D#
Date Acquired: Nov 16 2011 04:31 pm
Operator: TEL
Sample Name: LLICV-1131045
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.102	ppb	5.44	1.30	
51	V	72	1	5.046	ppb	1.65	6.50	
52	Cr	72	1	2.126	ppb	1.69	2.60	
55	Mn	72	1	1.082	ppb	1.55	1.30	
59	Co	72	1	1.044	ppb	1.45	1.30	
60	Ni	72	1	2.163	ppb	1.06	2.60	
63	Cu	72	1	2.007	ppb	1.81	2.60	
66	Zn	72	1	10.240	ppb	1.67	13.00	
75	As	72	1	5.282	ppb	0.73	6.50	
78	Se	72	1	5.448	ppb	5.10	6.50	
95	Mo	72	1	2.145	ppb	0.41	2.60	
107	Ag	115	1	5.215	ppb	0.90	6.50	
111	Cd	115	1	1.097	ppb	2.22	1.30	
118	Sn	115	1	10.240	ppb	0.33	13.00	
121	Sb	115	1	2.032	ppb	1.67	2.60	
137	Ba	115	1	1.036	ppb	2.43	1.30	
205	Tl	165	1	1.050	ppb	2.30	1.30	
208	Pb	165	1	1.021	ppb	2.18	1.30	
232	Th	165	1	2.078	ppb	1.99	2.60	
238	U	165	1	1.015	ppb	2.14	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	480952	1.20	488646	98.4	30 - 120	
45	Sc	1	2517699	0.55	2529221	99.5	30 - 120	
72	Ge	1	1467530	1.23	1504199	97.6	30 - 120	
115	In	1	4284747	0.76	4300457	99.6	30 - 120	
165	Ho	1	8349200	0.83	8234026	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\111_MS.D\111_MS.D#
Date Acquired:	Nov 16 2011 04:34 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-4-l ms
Misc Info:	MATRIX SPIKE
Vial Number:	3111
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	43.53	0.00	ppb	0.96	40	108.8	50 - 150	
51 V	72	1	42.55	0.16	ppb	1.33	40	106.0	50 - 150	
52 Cr	72	1	41.55	0.06	ppb	1.03	40	103.7	50 - 150	
55 Mn	72	1	1838.00	1803.00	ppb	1.04	40	99.7	50 - 150	
59 Co	72	1	41.13	0.17	ppb	1.69	40	102.4	50 - 150	
60 Ni	72	1	40.06	1.15	ppb	1.89	40	97.4	50 - 150	
63 Cu	72	1	37.36	0.17	ppb	1.95	40	93.0	50 - 150	
66 Zn	72	1	40.98	2.00	ppb	1.10	40	97.6	50 - 150	
75 As	72	1	63.38	20.91	ppb	1.43	40	104.1	50 - 150	
78 Se	72	1	42.35	0.37	ppb	2.69	40	104.9	50 - 150	
95 Mo	72	1	44.16	0.31	ppb	1.36	40	109.5	50 - 150	
107 Ag	115	1	38.06	0.00	ppb	1.13	40	95.1	50 - 150	
111 Cd	115	1	41.17	0.01	ppb	1.16	40	102.9	50 - 150	
118 Sn	115	1	40.96	0.03	ppb	0.37	40	102.3	50 - 150	
121 Sb	115	1	41.23	0.05	ppb	0.42	40	103.0	50 - 150	
137 Ba	115	1	514.90	475.80	ppb	0.69	40	99.8	50 - 150	
205 Tl	165	1	41.31	0.00	ppb	0.15	40	103.3	50 - 150	
208 Pb	165	1	39.06	0.01	ppb	0.97	40	97.6	50 - 150	
232 Th	165	1	42.31	0.01	ppb	0.92	40	105.8	50 - 150	
238 U	165	1	42.31	0.04	ppb	0.72	40	105.7	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	441594	0.96	488646	90.4	30 - 120	
45 Sc	1	2317665	1.91	2529221	91.6	30 - 120	
72 Ge	1	1320295	1.80	1504199	87.8	30 - 120	
115 In	1	3845209	1.09	4300457	89.4	30 - 120	
165 Ho	1	7535360	0.54	8234026	91.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\112_MSD.D\112_MSD.D#
Date Acquired: Nov 16 2011 04:37 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-4-m msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3112
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\111_MS.D\111_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	44.07	ppb	2.00	43.53	1.23	20	
51	V	72	1	42.57	ppb	1.02	42.55	0.05	20	
52	Cr	72	1	41.93	ppb	2.23	41.55	0.91	20	
55	Mn	72	1	1839.00	ppb	2.17	1838.00	0.05	20	
59	Co	72	1	41.40	ppb	1.15	41.13	0.65	20	
60	Ni	72	1	39.83	ppb	1.93	40.06	0.58	20	
63	Cu	72	1	37.10	ppb	0.15	37.36	0.70	20	
66	Zn	72	1	43.80	ppb	0.28	40.98	6.65	20	
75	As	72	1	63.36	ppb	0.61	63.38	0.03	20	
78	Se	72	1	42.83	ppb	1.66	42.35	1.13	20	
95	Mo	72	1	43.66	ppb	0.47	44.16	1.14	20	
107	Ag	115	1	38.18	ppb	1.24	38.06	0.31	20	
111	Cd	115	1	40.82	ppb	0.77	41.17	0.85	20	
118	Sn	115	1	40.91	ppb	1.21	40.96	0.12	20	
121	Sb	115	1	41.12	ppb	0.97	41.23	0.27	20	
137	Ba	115	1	512.50	ppb	1.70	514.90	0.47	20	
205	Tl	165	1	41.37	ppb	0.39	41.31	0.15	20	
208	Pb	165	1	38.69	ppb	0.21	39.06	0.95	20	
232	Th	165	1	42.07	ppb	0.67	42.31	0.57	20	
238	U	165	1	41.92	ppb	1.51	42.31	0.93	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	437537	1.05	488646	89.5	30 - 120	
45	Sc	1	2305115	1.23	2529221	91.1	30 - 120	
72	Ge	1	1309021	0.23	1504199	87.0	30 - 120	
115	In	1	3820818	0.63	4300457	88.8	30 - 120	
165	Ho	1	7450733	0.34	8234026	90.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\113SMPL.D\113SMPL.D#
Date Acquired: Nov 16 2011 04:40 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-5-d
Misc Info:
Vial Number: 3201
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	1.03	3600	
51	V	72	1	0.37	0.37	ppb	5.64	3600	
52	Cr	72	1	0.09	0.09	ppb	7.67	3600	
55	Mn	72	1	1,692.00	1692.00	ppb	1.04	18000	
59	Co	72	1	0.25	0.25	ppb	4.99	3600	
60	Ni	72	1	1.20	1.20	ppb	5.54	3600	
63	Cu	72	1	0.14	0.14	ppb	11.68	3600	
66	Zn	72	1	2.50	2.50	ppb	1.83	3600	
75	As	72	1	14.80	14.80	ppb	1.64	3600	
78	Se	72	1	0.24	0.24	ppb	56.89	3600	
95	Mo	72	1	0.12	0.12	ppb	1.60	3600	
107	Ag	115	1	0.00	0.00	ppb	47.73	3600	
111	Cd	115	1	0.01	0.01	ppb	17.78	3600	
118	Sn	115	1	0.05	0.05	ppb	4.91	3600	
121	Sb	115	1	0.06	0.06	ppb	6.50	3600	
137	Ba	115	1	528.90	528.90	ppb	0.88	3600	
205	Tl	165	1	0.01	0.01	ppb	19.10	3600	
208	Pb	165	1	0.02	0.02	ppb	4.42	3600	
232	Th	165	1	0.03	0.03	ppb	10.22	1000	
238	U	165	1	0.21	0.21	ppb	0.82	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	432049	0.73	488646	88.4	30 - 120	
45	Sc	1	2290595	0.87	2529221	90.6	30 - 120	
72	Ge	1	1308248	2.11	1504199	87.0	30 - 120	
115	In	1	3815955	0.90	4300457	88.7	30 - 120	
165	Ho	1	7514542	0.63	8234026	91.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\114SMPL.D\114SMPL.D#
Date Acquired:	Nov 16 2011 04:43 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-6-d
Misc Info:	
Vial Number:	3202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1146.90	3600	
51	V	72	1	0.23	0.23	ppb	0.44	3600	
52	Cr	72	1	0.08	0.08	ppb	7.57	3600	
55	Mn	72	1	209.40	209.40	ppb	0.30	18000	
59	Co	72	1	0.08	0.08	ppb	10.88	3600	
60	Ni	72	1	1.43	1.43	ppb	3.78	3600	
63	Cu	72	1	0.13	0.13	ppb	4.58	3600	
66	Zn	72	1	3.25	3.25	ppb	2.23	3600	
75	As	72	1	0.61	0.61	ppb	3.73	3600	
78	Se	72	1	0.10	0.10	ppb	290.80	3600	
95	Mo	72	1	0.78	0.78	ppb	3.93	3600	
107	Ag	115	1	0.00	0.00	ppb	43.19	3600	
111	Cd	115	1	0.01	0.01	ppb	14.82	3600	
118	Sn	115	1	0.11	0.11	ppb	14.04	3600	
121	Sb	115	1	0.03	0.03	ppb	16.54	3600	
137	Ba	115	1	2,387.00	2387.00	ppb	0.65	3600	
205	Tl	165	1	0.02	0.02	ppb	24.51	3600	
208	Pb	165	1	0.02	0.02	ppb	22.81	3600	
232	Th	165	1	0.01	0.01	ppb	11.94	1000	
238	U	165	1	0.04	0.04	ppb	4.91	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	417266	0.32	488646	85.4	30 - 120	
45	Sc	1	2261056	0.80	2529221	89.4	30 - 120	
72	Ge	1	1238859	0.47	1504199	82.4	30 - 120	
115	In	1	3587748	0.24	4300457	83.4	30 - 120	
165	Ho	1	7181781	0.90	8234026	87.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\115SMPL.D\115SMPL.D#
Date Acquired:	Nov 16 2011 04:46 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-7-d
Misc Info:	
Vial Number:	3203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	155.02	3600	
51	V	72	1	0.17	0.17	ppb	5.93	3600	
52	Cr	72	1	0.05	0.05	ppb	15.22	3600	
55	Mn	72	1	1,836.00	1836.00	ppb	0.36	18000	
59	Co	72	1	0.17	0.17	ppb	4.11	3600	
60	Ni	72	1	1.04	1.04	ppb	2.72	3600	
63	Cu	72	1	0.16	0.16	ppb	3.06	3600	
66	Zn	72	1	2.49	2.49	ppb	2.03	3600	
75	As	72	1	21.06	21.06	ppb	0.10	3600	
78	Se	72	1	0.36	0.36	ppb	20.59	3600	
95	Mo	72	1	0.28	0.28	ppb	2.77	3600	
107	Ag	115	1	0.00	0.00	ppb	65.47	3600	
111	Cd	115	1	0.01	0.01	ppb	90.65	3600	
118	Sn	115	1	0.02	0.02	ppb	23.59	3600	
121	Sb	115	1	0.03	0.03	ppb	12.81	3600	
137	Ba	115	1	492.40	492.40	ppb	1.08	3600	
205	Tl	165	1	0.00	0.00	ppb	19.95	3600	
208	Pb	165	1	0.00	0.00	ppb	19.69	3600	
232	Th	165	1	0.01	0.01	ppb	35.50	1000	
238	U	165	1	0.03	0.03	ppb	0.83	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	432351	1.07	488646	88.5	30 - 120	
45	Sc	1	2282042	1.04	2529221	90.2	30 - 120	
72	Ge	1	1314398	0.69	1504199	87.4	30 - 120	
115	In	1	3801953	0.63	4300457	88.4	30 - 120	
165	Ho	1	7390976	1.06	8234026	89.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\116SMPL.D\116SMPL.D#
Date Acquired: Nov 16 2011 04:49 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-1-h
Misc Info:
Vial Number: 3204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	143.00	3600	
51	V	72	1	0.07	0.07	ppb	20.55	3600	
52	Cr	72	1	0.12	0.12	ppb	6.68	3600	
55	Mn	72	1	2,838.00	2838.00	ppb	1.00	18000	
59	Co	72	1	4.36	4.36	ppb	1.16	3600	
60	Ni	72	1	14.38	14.38	ppb	1.87	3600	
63	Cu	72	1	0.36	0.36	ppb	7.60	3600	
66	Zn	72	1	2.69	2.69	ppb	1.08	3600	
75	As	72	1	3.62	3.62	ppb	3.93	3600	
78	Se	72	1	0.56	0.56	ppb	10.29	3600	
95	Mo	72	1	3.32	3.32	ppb	2.08	3600	
107	Ag	115	1	0.00	0.00	ppb	43.07	3600	
111	Cd	115	1	0.01	0.01	ppb	71.19	3600	
118	Sn	115	1	0.03	0.03	ppb	11.86	3600	
121	Sb	115	1	0.22	0.22	ppb	5.71	3600	
137	Ba	115	1	194.50	194.50	ppb	0.73	3600	
205	Tl	165	1	0.00	0.00	ppb	28.02	3600	
208	Pb	165	1	0.01	0.01	ppb	5.83	3600	
232	Th	165	1	0.00	0.00	ppb	12.38	1000	
238	U	165	1	2.89	2.89	ppb	1.79	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	435578	1.71	488646	89.1	30 - 120	
45	Sc	1	2284480	1.06	2529221	90.3	30 - 120	
72	Ge	1	1278445	0.45	1504199	85.0	30 - 120	
115	In	1	3759477	0.94	4300457	87.4	30 - 120	
165	Ho	1	7378823	1.19	8234026	89.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\117SMPL.D\117SMPL.D#
Date Acquired:	Nov 16 2011 04:52 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-2-d
Misc Info:	
Vial Number:	3205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	0.00	3600	
51	V	72	1	1.26	1.26	ppb	2.26	3600	
52	Cr	72	1	0.08	0.08	ppb	13.03	3600	
55	Mn	72	1	245.10	245.10	ppb	1.22	18000	
59	Co	72	1	0.32	0.32	ppb	0.97	3600	
60	Ni	72	1	1.50	1.50	ppb	4.22	3600	
63	Cu	72	1	0.22	0.22	ppb	6.58	3600	
66	Zn	72	1	2.40	2.40	ppb	2.48	3600	
75	As	72	1	3.42	3.42	ppb	1.60	3600	
78	Se	72	1	0.09	0.09	ppb	450.33	3600	
95	Mo	72	1	0.37	0.37	ppb	6.27	3600	
107	Ag	115	1	0.00	0.00	ppb	236.66	3600	
111	Cd	115	1	0.01	0.01	ppb	18.57	3600	
118	Sn	115	1	0.01	0.01	ppb	44.33	3600	
121	Sb	115	1	0.15	0.15	ppb	7.63	3600	
137	Ba	115	1	533.40	533.40	ppb	1.17	3600	
205	Tl	165	1	0.00	0.00	ppb	35.58	3600	
208	Pb	165	1	0.02	0.02	ppb	9.68	3600	
232	Th	165	1	0.00	0.00	ppb	34.61	1000	
238	U	165	1	0.30	0.30	ppb	0.12	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	443516	0.77	488646	90.8	30 - 120	
45	Sc	1	2367720	1.39	2529221	93.6	30 - 120	
72	Ge	1	1321596	0.66	1504199	87.9	30 - 120	
115	In	1	3835761	0.32	4300457	89.2	30 - 120	
165	Ho	1	7574483	0.66	8234026	92.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\118SMPL.D\118SMPL.D#
Date Acquired: Nov 16 2011 04:55 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-3-d
Misc Info:
Vial Number: 3206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	161.12	3600	
51	V	72	1	1.18	1.18	ppb	3.86	3600	
52	Cr	72	1	0.32	0.32	ppb	6.87	3600	
55	Mn	72	1	565.60	565.60	ppb	1.01	18000	
59	Co	72	1	0.20	0.20	ppb	2.78	3600	
60	Ni	72	1	1.88	1.88	ppb	1.11	3600	
63	Cu	72	1	0.21	0.21	ppb	6.02	3600	
66	Zn	72	1	2.19	2.19	ppb	1.11	3600	
75	As	72	1	7.63	7.63	ppb	0.08	3600	
78	Se	72	1	0.40	0.40	ppb	38.05	3600	
95	Mo	72	1	0.68	0.68	ppb	2.20	3600	
107	Ag	115	1	0.00	0.00	ppb	1.23	3600	
111	Cd	115	1	0.00	0.00	ppb	274.23	3600	
118	Sn	115	1	0.04	0.04	ppb	17.78	3600	
121	Sb	115	1	0.14	0.14	ppb	5.52	3600	
137	Ba	115	1	336.90	336.90	ppb	1.15	3600	
205	Tl	165	1	0.00	0.00	ppb	15.47	3600	
208	Pb	165	1	0.01	0.01	ppb	16.24	3600	
232	Th	165	1	0.00	0.00	ppb	40.02	1000	
238	U	165	1	0.88	0.88	ppb	0.34	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454946	0.54	488646	93.1	30 - 120	
45	Sc	1	2344463	1.24	2529221	92.7	30 - 120	
72	Ge	1	1330569	0.90	1504199	88.5	30 - 120	
115	In	1	3832405	0.60	4300457	89.1	30 - 120	
165	Ho	1	7618400	0.43	8234026	92.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\119_CCV.D\119_CCV.D#
Date Acquired:	Nov 16 2011 04:58 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.86	ppb	1.51	50	101.7	90 - 110	
51	V	72	1	50.49	ppb	2.03	50	101.0	90 - 110	
52	Cr	72	1	50.61	ppb	1.68	50	101.2	90 - 110	
55	Mn	72	1	50.36	ppb	1.42	50	100.7	90 - 110	
59	Co	72	1	51.03	ppb	1.44	50	102.1	90 - 110	
60	Ni	72	1	49.56	ppb	1.25	50	99.1	90 - 110	
63	Cu	72	1	49.72	ppb	0.67	50	99.4	90 - 110	
66	Zn	72	1	49.63	ppb	0.90	50	99.3	90 - 110	
75	As	72	1	49.61	ppb	1.15	50	99.2	90 - 110	
78	Se	72	1	50.88	ppb	2.86	50	101.8	90 - 110	
95	Mo	72	1	49.56	ppb	0.55	50	99.1	90 - 110	
107	Ag	115	1	51.30	ppb	0.99	50	102.6	90 - 110	
111	Cd	115	1	50.27	ppb	1.14	50	100.5	90 - 110	
118	Sn	115	1	48.33	ppb	1.72	50	96.7	90 - 110	
121	Sb	115	1	48.49	ppb	1.22	50	97.0	90 - 110	
137	Ba	115	1	50.14	ppb	1.03	50	100.3	90 - 110	
205	Tl	165	1	50.44	ppb	1.72	50	100.9	90 - 110	
208	Pb	165	1	49.62	ppb	1.46	50	99.2	90 - 110	
232	Th	165	1	50.21	ppb	1.42	50	100.4	90 - 110	
238	U	165	1	49.87	ppb	0.77	50	99.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	479121	0.78	488646	98.1	30 - 120	
45	Sc	1	2479239	1.44	2529221	98.0	30 - 120	
72	Ge	1	1452412	1.43	1504199	96.6	30 - 120	
115	In	1	4199257	1.44	4300457	97.6	30 - 120	
165	Ho	1	8179487	1.57	8234026	99.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\120_CCB.D\120_CCB.D#
Date Acquired:	Nov 16 2011 05:00 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.023	ppb	59.58	1.00	
51	V	72	1	0.012	ppb	89.79	1.00	
52	Cr	72	1	0.014	ppb	64.79	1.00	
55	Mn	72	1	0.046	ppb	13.74	1.00	
59	Co	72	1	0.005	ppb	25.67	1.00	
60	Ni	72	1	0.004	ppb	125.09	1.00	
63	Cu	72	1	0.003	ppb	163.62	1.00	
66	Zn	72	1	0.020	ppb	67.66	1.00	
75	As	72	1	0.010	ppb	72.09	1.00	
78	Se	72	1	0.081	ppb	285.98	1.00	
95	Mo	72	1	0.004	ppb	57.81	1.00	
107	Ag	115	1	0.007	ppb	31.53	1.00	
111	Cd	115	1	0.002	ppb	277.49	1.00	
118	Sn	115	1	0.033	ppb	27.47	1.00	
121	Sb	115	1	0.010	ppb	11.77	1.00	
137	Ba	115	1	0.028	ppb	10.79	1.00	
205	Tl	165	1	0.017	ppb	8.97	1.00	
208	Pb	165	1	0.006	ppb	24.17	1.00	
232	Th	165	1	0.034	ppb	3.02	1.00	
238	U	165	1	0.011	ppb	3.42	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	484032	0.27	488646	99.1	30 - 120	
45	Sc	1	2500569	1.12	2529221	98.9	30 - 120	
72	Ge	1	1457221	0.48	1504199	96.9	30 - 120	
115	In	1	4226874	0.83	4300457	98.3	30 - 120	
165	Ho	1	8149357	1.41	8234026	99.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\121WASH.D\121WASH.D#
Date Acquired: Nov 16 2011 05:03 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.081 ppb	18.74	1.30	
51	V	72	1	4.847 ppb	7.14	6.50	
52	Cr	72	1	1.996 ppb	8.04	2.60	
55	Mn	72	1	1.042 ppb	6.60	1.30	
59	Co	72	1	0.968 ppb	8.93	1.30	
60	Ni	72	1	1.994 ppb	7.01	2.60	
63	Cu	72	1	1.932 ppb	7.68	2.60	
66	Zn	72	1	9.790 ppb	7.58	13.00	
75	As	72	1	4.957 ppb	7.65	6.50	
78	Se	72	1	5.186 ppb	11.77	6.50	
95	Mo	72	1	1.979 ppb	10.57	2.60	
107	Ag	115	1	4.880 ppb	9.33	6.50	
111	Cd	115	1	1.019 ppb	10.56	1.30	
118	Sn	115	1	9.736 ppb	11.12	13.00	
121	Sb	115	1	1.890 ppb	10.78	2.60	
137	Ba	115	1	1.008 ppb	9.80	1.30	
205	Tl	165	1	0.992 ppb	10.19	1.30	
208	Pb	165	1	0.965 ppb	8.97	1.30	
232	Th	165	1	1.939 ppb	9.04	2.60	
238	U	165	1	0.962 ppb	9.12	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501648	6.51	488646	102.7	30 - 120	
45	Sc	1	2646021	10.61	2529221	104.6	30 - 120	
72	Ge	1	1529389	7.74	1504199	101.7	30 - 120	
115	In	1	4527625	10.45	4300457	105.3	30 - 120	
165	Ho	1	8617830	9.03	8234026	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\122SMPL.D\122SMPL.D#
Date Acquired: Nov 16 2011 05:06 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-4-d
Misc Info:
Vial Number: 3207
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1493.30	3600	
51	V	72	1	0.34	0.34	ppb	11.33	3600	
52	Cr	72	1	0.41	0.41	ppb	2.38	3600	
55	Mn	72	1	4,978.00	4978.00	ppb	1.91	18000	
59	Co	72	1	6.66	6.66	ppb	1.84	3600	
60	Ni	72	1	18.01	18.01	ppb	1.09	3600	
63	Cu	72	1	0.36	0.36	ppb	5.97	3600	
66	Zn	72	1	4.41	4.41	ppb	3.28	3600	
75	As	72	1	5.86	5.86	ppb	3.44	3600	
78	Se	72	1	0.36	0.36	ppb	82.96	3600	
95	Mo	72	1	0.86	0.86	ppb	0.33	3600	
107	Ag	115	1	0.00	0.00	ppb	101.61	3600	
111	Cd	115	1	0.00	0.00	ppb	514.15	3600	
118	Sn	115	1	0.02	0.02	ppb	10.86	3600	
121	Sb	115	1	0.10	0.10	ppb	1.48	3600	
137	Ba	115	1	1,087.00	1087.00	ppb	1.85	3600	
205	Tl	165	1	0.05	0.05	ppb	3.31	3600	
208	Pb	165	1	0.01	0.01	ppb	21.59	3600	
232	Th	165	1	0.01	0.01	ppb	11.18	1000	
238	U	165	1	1.65	1.65	ppb	0.86	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	436362	0.42	488646	89.3	30 - 120	
45	Sc	1	2347612	2.72	2529221	92.8	30 - 120	
72	Ge	1	1295931	2.55	1504199	86.2	30 - 120	
115	In	1	3821518	1.44	4300457	88.9	30 - 120	
165	Ho	1	7472965	0.89	8234026	90.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\123SMPL.D\123SMPL.D#
Date Acquired: Nov 16 2011 05:09 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-5-d
Misc Info:
Vial Number: 3208
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	0.00	3600	
51	V	72	1	0.15	0.15	ppb	12.23	3600	
52	Cr	72	1	0.08	0.08	ppb	6.62	3600	
55	Mn	72	1	777.40	777.40	ppb	1.46	18000	
59	Co	72	1	0.18	0.18	ppb	6.07	3600	
60	Ni	72	1	1.16	1.16	ppb	5.51	3600	
63	Cu	72	1	0.22	0.22	ppb	7.18	3600	
66	Zn	72	1	2.59	2.59	ppb	0.97	3600	
75	As	72	1	6.53	6.53	ppb	2.36	3600	
78	Se	72	1	0.29	0.29	ppb	98.37	3600	
95	Mo	72	1	0.81	0.81	ppb	7.07	3600	
107	Ag	115	1	0.00	0.00	ppb	119.69	3600	
111	Cd	115	1	0.00	0.00	ppb	100.60	3600	
118	Sn	115	1	0.02	0.02	ppb	14.20	3600	
121	Sb	115	1	0.07	0.07	ppb	2.96	3600	
137	Ba	115	1	284.50	284.50	ppb	1.28	3600	
205	Tl	165	1	0.01	0.01	ppb	27.21	3600	
208	Pb	165	1	0.01	0.01	ppb	9.59	3600	
232	Th	165	1	0.00	0.00	ppb	23.75	1000	
238	U	165	1	3.66	3.66	ppb	0.55	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	436692	0.08	488646	89.4	30 - 120	
45	Sc	1	2348878	1.84	2529221	92.9	30 - 120	
72	Ge	1	1340934	1.04	1504199	89.1	30 - 120	
115	In	1	3856683	1.15	4300457	89.7	30 - 120	
165	Ho	1	7410671	0.33	8234026	90.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\124SMPL.D\124SMPL.D#
Date Acquired: Nov 16 2011 05:12 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-6-d
Misc Info:
Vial Number: 3209
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	306.71	3600	
51	V	72	1	0.23	0.23	ppb	1.67	3600	
52	Cr	72	1	0.07	0.07	ppb	8.01	3600	
55	Mn	72	1	1,815.00	1815.00	ppb	3.83	18000	
59	Co	72	1	1.48	1.48	ppb	6.33	3600	
60	Ni	72	1	8.44	8.44	ppb	4.38	3600	
63	Cu	72	1	0.51	0.51	ppb	2.46	3600	
66	Zn	72	1	5.46	5.46	ppb	3.13	3600	
75	As	72	1	27.45	27.45	ppb	3.08	3600	
78	Se	72	1	0.97	0.97	ppb	30.26	3600	
95	Mo	72	1	3.92	3.92	ppb	4.58	3600	
107	Ag	115	1	0.00	0.00	ppb	65.23	3600	
111	Cd	115	1	0.07	0.07	ppb	15.56	3600	
118	Sn	115	1	0.07	0.07	ppb	13.42	3600	
121	Sb	115	1	0.14	0.14	ppb	4.18	3600	
137	Ba	115	1	224.60	224.60	ppb	4.58	3600	
205	Tl	165	1	0.09	0.09	ppb	6.14	3600	
208	Pb	165	1	0.01	0.01	ppb	27.80	3600	
232	Th	165	1	0.00	0.00	ppb	22.81	1000	
238	U	165	1	9.98	9.98	ppb	5.46	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	439073	3.70	488646	89.9	30 - 120	
45	Sc	1	2338162	6.09	2529221	92.4	30 - 120	
72	Ge	1	1308043	4.15	1504199	87.0	30 - 120	
115	In	1	3807001	5.06	4300457	88.5	30 - 120	
165	Ho	1	7588561	5.31	8234026	92.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\125SMPL.D\125SMPL.D#
Date Acquired: Nov 16 2011 05:15 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-7-d
Misc Info:
Vial Number: 3210
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1222.60	3600	
51	V	72	1	0.50	0.50	ppb	8.14	3600	
52	Cr	72	1	0.11	0.11	ppb	8.19	3600	
55	Mn	72	1	848.20	848.20	ppb	0.99	18000	
59	Co	72	1	0.94	0.94	ppb	2.32	3600	
60	Ni	72	1	4.62	4.62	ppb	0.86	3600	
63	Cu	72	1	0.24	0.24	ppb	5.01	3600	
66	Zn	72	1	3.76	3.76	ppb	0.44	3600	
75	As	72	1	60.79	60.79	ppb	0.88	3600	
78	Se	72	1	0.59	0.59	ppb	28.42	3600	
95	Mo	72	1	11.74	11.74	ppb	0.84	3600	
107	Ag	115	1	0.00	0.00	ppb	129.71	3600	
111	Cd	115	1	0.01	0.01	ppb	60.92	3600	
118	Sn	115	1	0.04	0.04	ppb	23.60	3600	
121	Sb	115	1	0.07	0.07	ppb	7.69	3600	
137	Ba	115	1	154.10	154.10	ppb	1.03	3600	
205	Tl	165	1	0.02	0.02	ppb	4.93	3600	
208	Pb	165	1	0.01	0.01	ppb	11.31	3600	
232	Th	165	1	0.00	0.00	ppb	58.75	1000	
238	U	165	1	1.91	1.91	ppb	0.88	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	424482	0.52	488646	86.9	30 - 120	
45	Sc	1	2271231	0.97	2529221	89.8	30 - 120	
72	Ge	1	1272834	1.68	1504199	84.6	30 - 120	
115	In	1	3712109	0.45	4300457	86.3	30 - 120	
165	Ho	1	7272182	0.45	8234026	88.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\126SMPL.D\126SMPL.D#
Date Acquired: Nov 16 2011 05:18 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-8-d
Misc Info:
Vial Number: 3211
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	145.72	3600	
51	V	72	1	0.06	0.06	ppb	32.29	3600	
52	Cr	72	1	0.05	0.05	ppb	12.68	3600	
55	Mn	72	1	3,282.00	3282.00	ppb	0.77	18000	
59	Co	72	1	2.75	2.75	ppb	1.11	3600	
60	Ni	72	1	3.73	3.73	ppb	1.69	3600	
63	Cu	72	1	0.17	0.17	ppb	2.58	3600	
66	Zn	72	1	2.47	2.47	ppb	0.80	3600	
75	As	72	1	71.00	71.00	ppb	1.11	3600	
78	Se	72	1	1.71	1.71	ppb	24.62	3600	
95	Mo	72	1	0.71	0.71	ppb	8.22	3600	
107	Ag	115	1	0.00	0.00	ppb	35.86	3600	
111	Cd	115	1	0.01	0.01	ppb	58.28	3600	
118	Sn	115	1	0.03	0.03	ppb	17.33	3600	
121	Sb	115	1	0.04	0.04	ppb	2.90	3600	
137	Ba	115	1	313.10	313.10	ppb	0.59	3600	
205	Tl	165	1	0.00	0.00	ppb	21.27	3600	
208	Pb	165	1	0.00	0.00	ppb	29.93	3600	
232	Th	165	1	0.00	0.00	ppb	24.53	1000	
238	U	165	1	0.37	0.37	ppb	2.62	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	418069	0.30	488646	85.6	30 - 120	
45	Sc	1	2229967	1.02	2529221	88.2	30 - 120	
72	Ge	1	1239749	1.22	1504199	82.4	30 - 120	
115	In	1	3620498	0.36	4300457	84.2	30 - 120	
165	Ho	1	7130826	0.25	8234026	86.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\127SMPL.D\127SMPL.D#
Date Acquired:	Nov 16 2011 05:21 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-9-d
Misc Info:	
Vial Number:	3212
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	160.59	3600	
51	V	72	1	0.01	0.01	ppb	210.47	3600	
52	Cr	72	1	0.04	0.04	ppb	21.75	3600	
55	Mn	72	1	0.48	0.48	ppb	11.75	18000	
59	Co	72	1	0.00	0.00	ppb	98.41	3600	
60	Ni	72	1	0.06	0.06	ppb	21.81	3600	
63	Cu	72	1	0.35	0.35	ppb	6.00	3600	
66	Zn	72	1	1.61	1.61	ppb	2.39	3600	
75	As	72	1	0.02	0.02	ppb	42.42	3600	
78	Se	72	1	0.06	0.06	ppb	198.91	3600	
95	Mo	72	1	0.01	0.01	ppb	52.88	3600	
107	Ag	115	1	0.00	0.00	ppb	389.16	3600	
111	Cd	115	1	0.00	0.00	ppb	432.32	3600	
118	Sn	115	1	0.05	0.05	ppb	15.37	3600	
121	Sb	115	1	0.04	0.04	ppb	7.64	3600	
137	Ba	115	1	0.15	0.15	ppb	6.76	3600	
205	Tl	165	1	0.00	0.00	ppb	120.52	3600	
208	Pb	165	1	0.03	0.03	ppb	4.87	3600	
232	Th	165	1	0.00	0.00	ppb	33.78	1000	
238	U	165	1	0.00	0.00	ppb	167.74	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	452881	1.76	488646	92.7	30 - 120	
45	Sc	1	2451188	0.78	2529221	96.9	30 - 120	
72	Ge	1	1451505	0.36	1504199	96.5	30 - 120	
115	In	1	4236074	1.31	4300457	98.5	30 - 120	
165	Ho	1	7919153	0.95	8234026	96.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\128SMPL.D\128SMPL.D#	
Date Acquired:	Nov 16 2011 05:24 pm	
Acq. Method:	NormISIS.M	**QC Summary:**
Operator:	TEL	**Analytes: Pass**
Sample Name:	280-22775-e-10-d	**ISTD: Pass**
Misc Info:		
Vial Number:	3301	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 16 2011 04:23 pm	
Sample Type:	SA	
Dilution Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	112.79	3600	
51	V	72	1	0.02	0.02	ppb	65.61	3600	
52	Cr	72	1	0.06	0.06	ppb	9.94	3600	
55	Mn	72	1	0.27	0.27	ppb	5.43	18000	
59	Co	72	1	0.00	0.00	ppb	284.15	3600	
60	Ni	72	1	0.05	0.05	ppb	25.04	3600	
63	Cu	72	1	0.29	0.29	ppb	8.92	3600	
66	Zn	72	1	1.44	1.44	ppb	0.97	3600	
75	As	72	1	0.01	0.01	ppb	99.91	3600	
78	Se	72	1	0.21	0.21	ppb	60.22	3600	
95	Mo	72	1	0.04	0.04	ppb	21.58	3600	
107	Ag	115	1	0.00	0.00	ppb	619.06	3600	
111	Cd	115	1	0.00	0.00	ppb	84.79	3600	
118	Sn	115	1	0.03	0.03	ppb	24.83	3600	
121	Sb	115	1	0.00	0.00	ppb	60.66	3600	
137	Ba	115	1	0.06	0.06	ppb	19.41	3600	
205	Tl	165	1	0.00	0.00	ppb	48.69	3600	
208	Pb	165	1	0.01	0.01	ppb	8.21	3600	
232	Th	165	1	0.00	0.00	ppb	178.48	1000	
238	U	165	1	0.00	0.00	ppb	20.15	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457478	0.86	488646	93.6	30 - 120	
45	Sc	1	2495400	2.05	2529221	98.7	30 - 120	
72	Ge	1	1461286	1.33	1504199	97.1	30 - 120	
115	In	1	4256130	1.51	4300457	99.0	30 - 120	
165	Ho	1	8035859	1.32	8234026	97.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\129_CCV.D\129_CCV.D#
Date Acquired: Nov 16 2011 05:27 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.44	ppb	1.46	50	98.9	90 - 110	
51	V	72	1	49.77	ppb	2.57	50	99.5	90 - 110	
52	Cr	72	1	50.34	ppb	2.48	50	100.7	90 - 110	
55	Mn	72	1	50.00	ppb	1.24	50	100.0	90 - 110	
59	Co	72	1	50.36	ppb	1.94	50	100.7	90 - 110	
60	Ni	72	1	49.20	ppb	1.07	50	98.4	90 - 110	
63	Cu	72	1	48.24	ppb	1.07	50	96.5	90 - 110	
66	Zn	72	1	49.09	ppb	1.32	50	98.2	90 - 110	
75	As	72	1	49.75	ppb	0.43	50	99.5	90 - 110	
78	Se	72	1	49.00	ppb	6.02	50	98.0	90 - 110	
95	Mo	72	1	49.11	ppb	0.97	50	98.2	90 - 110	
107	Ag	115	1	50.26	ppb	1.10	50	100.5	90 - 110	
111	Cd	115	1	49.13	ppb	0.96	50	98.3	90 - 110	
118	Sn	115	1	47.45	ppb	0.64	50	94.9	90 - 110	
121	Sb	115	1	47.67	ppb	0.66	50	95.3	90 - 110	
137	Ba	115	1	49.21	ppb	0.72	50	98.4	90 - 110	
205	Tl	165	1	50.35	ppb	0.99	50	100.7	90 - 110	
208	Pb	165	1	48.85	ppb	0.77	50	97.7	90 - 110	
232	Th	165	1	49.26	ppb	1.31	50	98.5	90 - 110	
238	U	165	1	48.84	ppb	0.85	50	97.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454152	0.56	488646	92.9	30 - 120	
45	Sc	1	2496341	0.39	2529221	98.7	30 - 120	
72	Ge	1	1457383	0.63	1504199	96.9	30 - 120	
115	In	1	4289435	0.94	4300457	99.7	30 - 120	
165	Ho	1	8102918	0.61	8234026	98.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\130_CCB.D\130_CCB.D#
Date Acquired: Nov 16 2011 05:30 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.020	ppb	111.84	1.00	
51	V	72	1	0.003	ppb	25.20	1.00	
52	Cr	72	1	0.017	ppb	85.21	1.00	
55	Mn	72	1	0.040	ppb	32.33	1.00	
59	Co	72	1	0.002	ppb	19.45	1.00	
60	Ni	72	1	0.009	ppb	85.21	1.00	
63	Cu	72	1	0.000	ppb	5406.40	1.00	
66	Zn	72	1	-0.001	ppb	348.63	1.00	
75	As	72	1	0.008	ppb	70.37	1.00	
78	Se	72	1	0.117	ppb	230.82	1.00	
95	Mo	72	1	0.007	ppb	59.83	1.00	
107	Ag	115	1	0.006	ppb	16.50	1.00	
111	Cd	115	1	-0.002	ppb	163.93	1.00	
118	Sn	115	1	0.026	ppb	24.32	1.00	
121	Sb	115	1	0.009	ppb	26.04	1.00	
137	Ba	115	1	0.022	ppb	21.71	1.00	
205	Tl	165	1	0.017	ppb	11.08	1.00	
208	Pb	165	1	0.006	ppb	18.43	1.00	
232	Th	165	1	0.034	ppb	3.40	1.00	
238	U	165	1	0.008	ppb	9.16	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	452197	1.05	488646	92.5	30 - 120	
45	Sc	1	2483957	0.63	2529221	98.2	30 - 120	
72	Ge	1	1462289	1.06	1504199	97.2	30 - 120	
115	In	1	4235985	0.17	4300457	98.5	30 - 120	
165	Ho	1	7914146	0.34	8234026	96.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\131WASH.D\131WASH.D#
Date Acquired: Nov 16 2011 05:33 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.030 ppb	11.66	1.30	
51	V	72	1	4.979 ppb	0.24	6.50	
52	Cr	72	1	2.102 ppb	0.50	2.60	
55	Mn	72	1	1.096 ppb	2.09	1.30	
59	Co	72	1	1.008 ppb	1.21	1.30	
60	Ni	72	1	1.998 ppb	2.62	2.60	
63	Cu	72	1	2.000 ppb	1.96	2.60	
66	Zn	72	1	10.140 ppb	0.74	13.00	
75	As	72	1	5.133 ppb	2.06	6.50	
78	Se	72	1	4.996 ppb	0.91	6.50	
95	Mo	72	1	2.070 ppb	2.93	2.60	
107	Ag	115	1	5.173 ppb	1.13	6.50	
111	Cd	115	1	1.079 ppb	3.58	1.30	
118	Sn	115	1	10.320 ppb	1.89	13.00	
121	Sb	115	1	2.005 ppb	1.19	2.60	
137	Ba	115	1	1.068 ppb	2.54	1.30	
205	Tl	165	1	1.035 ppb	1.03	1.30	
208	Pb	165	1	1.011 ppb	1.59	1.30	
232	Th	165	1	2.054 ppb	2.81	2.60	
238	U	165	1	0.998 ppb	1.53	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	455024	1.03	488646	93.1	30 - 120	
45	Sc	1	2478044	0.36	2529221	98.0	30 - 120	
72	Ge	1	1457986	0.46	1504199	96.9	30 - 120	
115	In	1	4222687	0.30	4300457	98.2	30 - 120	
165	Ho	1	8003906	0.97	8234026	97.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\132_BLK.D\132_BLK.D#
Date Acquired:	Nov 16 2011 05:36 pm
Operator:	TEL
Sample Name:	mb 280-96283/1-a
Misc Info:	BLANK 96283 6020A
Vial Number:	3302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	2455.90	2.00	
51	V	72	1	0.012	ppb	85.94	2.00	
52	Cr	72	1	0.014	ppb	67.25	2.00	
55	Mn	72	1	0.051	ppb	7.52	2.00	
59	Co	72	1	-0.001	ppb	85.81	2.00	
60	Ni	72	1	0.011	ppb	57.29	2.00	
63	Cu	72	1	0.069	ppb	5.17	2.00	
66	Zn	72	1	1.132	ppb	2.23	2.00	
75	As	72	1	0.003	ppb	116.16	2.00	
78	Se	72	1	0.001	ppb	7958.10	2.00	
95	Mo	72	1	-0.007	ppb	48.55	2.00	
107	Ag	115	1	0.001	ppb	66.28	2.00	
111	Cd	115	1	-0.002	ppb	244.85	2.00	
118	Sn	115	1	0.166	ppb	12.26	2.00	
121	Sb	115	1	0.001	ppb	148.17	2.00	
137	Ba	115	1	0.104	ppb	9.87	2.00	
205	Tl	165	1	0.003	ppb	40.82	2.00	
208	Pb	165	1	0.014	ppb	6.24	2.00	
232	Th	165	1	0.007	ppb	35.93	2.00	
238	U	165	1	-0.001	ppb	40.98	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	456714	0.14	488646	93.5	30 - 120	
45	Sc	1	2484116	1.39	2529221	98.2	30 - 120	
72	Ge	1	1460608	1.02	1504199	97.1	30 - 120	
115	In	1	4238649	0.60	4300457	98.6	30 - 120	
165	Ho	1	7951271	0.81	8234026	96.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\133_LCS.D\133_LCS.D#
Date Acquired:	Nov 16 2011 05:38 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-96283/2-a
Misc Info:	LCS
Vial Number:	3303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	43.30	0.11	40	108.3	80 - 120	
51	V	72	1	40.65	2.37	40	101.6	80 - 120	
52	Cr	72	1	41.47	1.86	40	103.7	80 - 120	
55	Mn	72	1	40.59	0.87	40	101.5	80 - 120	
59	Co	72	1	41.82	0.55	40	104.6	80 - 120	
60	Ni	72	1	40.94	0.29	40	102.4	80 - 120	
63	Cu	72	1	40.99	0.69	40	102.5	80 - 120	
66	Zn	72	1	42.76	0.27	40	106.9	80 - 120	
75	As	72	1	42.27	0.42	40	105.7	80 - 120	
78	Se	72	1	42.04	4.65	40	105.1	80 - 120	
95	Mo	72	1	41.11	0.92	40	102.8	80 - 120	
107	Ag	115	1	42.33	0.78	40	105.8	80 - 120	
111	Cd	115	1	41.99	0.77	40	105.0	80 - 120	
118	Sn	115	1	40.90	1.29	40	102.3	80 - 120	
121	Sb	115	1	40.56	1.46	40	101.4	80 - 120	
137	Ba	115	1	41.90	2.04	40	104.8	80 - 120	
205	Tl	165	1	42.84	0.59	40	107.1	80 - 120	
208	Pb	165	1	41.55	1.22	40	103.9	80 - 120	
232	Th	165	1	41.56	1.38	40	103.9	80 - 120	
238	U	165	1	41.27	1.20	40	103.2	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	452477	0.88	488646	92.6	30 - 120	
45	Sc	1	2439011	0.08	2529221	96.4	30 - 120	
72	Ge	1	1447296	0.10	1504199	96.2	30 - 120	
115	In	1	4214209	1.12	4300457	98.0	30 - 120	
165	Ho	1	8021551	0.70	8234026	97.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\134SMPL.D\134SMPL.D#
Date Acquired: Nov 16 2011 05:41 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-1-c
Misc Info:
Vial Number: 3304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	0.00	3600	
51	V	72	1	0.20	0.20	ppb	12.30	3600	
52	Cr	72	1	0.07	0.07	ppb	15.38	3600	
55	Mn	72	1	1,640.00	1640.00	ppb	1.65	18000	
59	Co	72	1	3.90	3.90	ppb	1.23	3600	
60	Ni	72	1	9.54	9.54	ppb	2.39	3600	
63	Cu	72	1	1.17	1.17	ppb	2.19	3600	
66	Zn	72	1	4.06	4.06	ppb	1.64	3600	
75	As	72	1	10.69	10.69	ppb	2.02	3600	
78	Se	72	1	8.21	8.21	ppb	13.41	3600	
95	Mo	72	1	3.39	3.39	ppb	2.26	3600	
107	Ag	115	1	0.01	0.01	ppb	15.62	3600	
111	Cd	115	1	0.04	0.04	ppb	21.58	3600	
118	Sn	115	1	0.07	0.07	ppb	20.42	3600	
121	Sb	115	1	0.08	0.08	ppb	3.06	3600	
137	Ba	115	1	94.22	94.22	ppb	0.48	3600	
205	Tl	165	1	0.04	0.04	ppb	25.33	3600	
208	Pb	165	1	0.12	0.12	ppb	1.06	3600	
232	Th	165	1	0.04	0.04	ppb	14.20	1000	
238	U	165	1	14.18	14.18	ppb	1.38	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	421985	0.88	488646	86.4	30 - 120	
45	Sc	1	2235818	1.21	2529221	88.4	30 - 120	
72	Ge	1	1253406	1.02	1504199	83.3	30 - 120	
115	In	1	3684348	0.47	4300457	85.7	30 - 120	
165	Ho	1	7242760	0.43	8234026	88.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\135SMPL.D\135SMPL.D#
Date Acquired:	Nov 16 2011 05:44 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-2-c
Misc Info:	
Vial Number:	3305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	75.17	3600	
51	V	72	1	1.08	1.08	ppb	11.48	3600	
52	Cr	72	1	1.36	1.36	ppb	3.98	3600	
55	Mn	72	1	3,307.00	3307.00	ppb	1.27	18000	
59	Co	72	1	0.52	0.52	ppb	1.84	3600	
60	Ni	72	1	8.80	8.80	ppb	1.49	3600	
63	Cu	72	1	6.64	6.64	ppb	1.29	3600	
66	Zn	72	1	5.19	5.19	ppb	1.63	3600	
75	As	72	1	21.18	21.18	ppb	1.29	3600	
78	Se	72	1	0.12	0.12	ppb	76.65	3600	
95	Mo	72	1	7.32	7.32	ppb	1.97	3600	
107	Ag	115	1	0.00	0.00	ppb	26.58	3600	
111	Cd	115	1	0.01	0.01	ppb	58.54	3600	
118	Sn	115	1	0.10	0.10	ppb	17.38	3600	
121	Sb	115	1	0.05	0.05	ppb	17.34	3600	
137	Ba	115	1	167.20	167.20	ppb	1.05	3600	
205	Tl	165	1	0.01	0.01	ppb	9.95	3600	
208	Pb	165	1	0.42	0.42	ppb	1.95	3600	
232	Th	165	1	0.04	0.04	ppb	0.98	1000	
238	U	165	1	0.28	0.28	ppb	1.48	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	417785	0.64	488646	85.5	30 - 120	
45	Sc	1	2222319	1.61	2529221	87.9	30 - 120	
72	Ge	1	1248521	1.20	1504199	83.0	30 - 120	
115	In	1	3689902	0.94	4300457	85.8	30 - 120	
165	Ho	1	7164323	1.10	8234026	87.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\136SMPL.D\136SMPL.D#
Date Acquired:	Nov 16 2011 05:47 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-3-c
Misc Info:	
Vial Number:	3306
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1426.40	3600	
51	V	72	1	0.32	0.32	ppb	6.15	3600	
52	Cr	72	1	0.07	0.07	ppb	12.18	3600	
55	Mn	72	1	965.60	965.60	ppb	0.93	18000	
59	Co	72	1	3.35	3.35	ppb	2.59	3600	
60	Ni	72	1	16.04	16.04	ppb	0.69	3600	
63	Cu	72	1	0.39	0.39	ppb	5.43	3600	
66	Zn	72	1	6.63	6.63	ppb	2.61	3600	
75	As	72	1	4.53	4.53	ppb	1.65	3600	
78	Se	72	1	0.35	0.35	ppb	80.72	3600	
95	Mo	72	1	1.02	1.02	ppb	4.25	3600	
107	Ag	115	1	0.00	0.00	ppb	43.43	3600	
111	Cd	115	1	0.06	0.06	ppb	11.07	3600	
118	Sn	115	1	0.02	0.02	ppb	40.34	3600	
121	Sb	115	1	0.10	0.10	ppb	7.77	3600	
137	Ba	115	1	252.70	252.70	ppb	1.69	3600	
205	Tl	165	1	0.05	0.05	ppb	5.71	3600	
208	Pb	165	1	0.13	0.13	ppb	1.18	3600	
232	Th	165	1	0.01	0.01	ppb	24.21	1000	
238	U	165	1	17.33	17.33	ppb	1.27	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	426786	1.29	488646	87.3	30 - 120	
45	Sc	1	2239176	0.91	2529221	88.5	30 - 120	
72	Ge	1	1255345	1.04	1504199	83.5	30 - 120	
115	In	1	3733152	0.42	4300457	86.8	30 - 120	
165	Ho	1	7307999	1.06	8234026	88.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\137AREF.D\137AREF.D#
Date Acquired: Nov 16 2011 05:50 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-4-h
Misc Info:
Vial Number: 3307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	100.90	3600	
51	V	72	1	2.00	2.00	ppb	1.09	3600	
52	Cr	72	1	0.80	0.80	ppb	1.94	3600	
55	Mn	72	1	1,838.00	1838.00	ppb	0.46	18000	
59	Co	72	1	0.41	0.41	ppb	1.40	3600	
60	Ni	72	1	2.08	2.08	ppb	2.77	3600	
63	Cu	72	1	1.16	1.16	ppb	2.94	3600	
66	Zn	72	1	12.41	12.41	ppb	1.18	3600	
75	As	72	1	23.97	23.97	ppb	0.09	3600	
78	Se	72	1	0.35	0.35	ppb	29.89	3600	
95	Mo	72	1	0.42	0.42	ppb	2.43	3600	
107	Ag	115	1	0.01	0.01	ppb	3.79	3600	
111	Cd	115	1	0.18	0.18	ppb	8.84	3600	
118	Sn	115	1	0.07	0.07	ppb	2.26	3600	
121	Sb	115	1	0.07	0.07	ppb	4.20	3600	
137	Ba	115	1	670.00	670.00	ppb	1.67	3600	
205	Tl	165	1	0.01	0.01	ppb	11.76	3600	
208	Pb	165	1	1.08	1.08	ppb	1.16	3600	
232	Th	165	1	0.28	0.28	ppb	3.43	1000	
238	U	165	1	0.11	0.11	ppb	4.87	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	409064	0.67	488646	83.7	30 - 120	
45	Sc	1	2217396	0.70	2529221	87.7	30 - 120	
72	Ge	1	1289087	0.69	1504199	85.7	30 - 120	
115	In	1	3742864	1.07	4300457	87.0	30 - 120	
165	Ho	1	7173199	0.24	8234026	87.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\138SDIL.D\138SDIL.D#
Date Acquired: Nov 16 2011 05:53 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-4-h SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3308
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\137AREF.D\137AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.01	ppb	2.51	0.01	196.3	90 - 110	
51	V	72	1	0.38	ppb	5.03	0.40	94.5	90 - 110	
52	Cr	72	1	0.15	ppb	11.39	0.16	95.5	90 - 110	
55	Mn	72	1	378.50	ppb	0.96	367.60	103.0	90 - 110	
59	Co	72	1	0.08	ppb	10.42	0.08	104.5	90 - 110	
60	Ni	72	1	0.44	ppb	5.73	0.42	106.8	90 - 110	
63	Cu	72	1	0.31	ppb	3.08	0.23	132.4	90 - 110	
66	Zn	72	1	2.74	ppb	1.24	2.48	110.3	90 - 110	
75	As	72	1	4.89	ppb	1.09	4.79	102.0	90 - 110	
78	Se	72	1	0.36	ppb	62.65	0.07	509.7	90 - 110	
95	Mo	72	1	0.09	ppb	11.04	0.08	103.3	90 - 110	
107	Ag	115	1	0.00	ppb	61.76	0.00	90.5	90 - 110	
111	Cd	115	1	0.03	ppb	48.01	0.04	93.9	90 - 110	
118	Sn	115	1	0.07	ppb	13.33	0.01	540.1	90 - 110	
121	Sb	115	1	0.01	ppb	24.06	0.01	98.0	90 - 110	
137	Ba	115	1	131.70	ppb	0.25	134.00	98.3	90 - 110	
205	Tl	165	1	0.00	ppb	10.35	0.00	149.1	90 - 110	
208	Pb	165	1	0.23	ppb	1.07	0.22	105.5	90 - 110	
232	Th	165	1	0.06	ppb	10.00	0.06	104.2	90 - 110	
238	U	165	1	0.02	ppb	8.62	0.02	101.2	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	428459	1.80	488646	87.7	30 - 120	
45	Sc	1	2365904	1.79	2529221	93.5	30 - 120	
72	Ge	1	1393019	0.82	1504199	92.6	30 - 120	
115	In	1	4077279	0.53	4300457	94.8	30 - 120	
165	Ho	1	7611148	0.25	8234026	92.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\139PDS.D\139PDS.D#
Date Acquired: Nov 16 2011 05:56 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-4-h PDS
Misc Info: POST DIGESTION SPIKE
Vial Number: 3309
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: PDS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	203.00	0.03	ppb	2.34	200	101.5	75 - 125	
51 V	72	1	197.40	2.00	ppb	1.78	200	97.7	75 - 125	
52 Cr	72	1	191.60	0.80	ppb	1.37	200	95.4	75 - 125	
55 Mn	72	1	1992.00	1838.00	ppb	2.61	200	97.7	75 - 125	
59 Co	72	1	186.80	0.41	ppb	1.64	200	93.2	75 - 125	
60 Ni	72	1	190.40	2.08	ppb	1.09	200	94.2	75 - 125	
63 Cu	72	1	177.00	1.16	ppb	1.30	200	88.0	75 - 125	
66 Zn	72	1	192.70	12.41	ppb	1.25	200	90.7	75 - 125	
75 As	72	1	228.50	23.97	ppb	1.84	200	102.0	75 - 125	
78 Se	72	1	197.50	0.35	ppb	1.53	200	98.6	75 - 125	
95 Mo	72	1	211.70	0.42	ppb	1.42	200	105.6	75 - 125	
107 Ag	115	1	45.94	0.01	ppb	0.27	50	91.9	75 - 125	
111 Cd	115	1	194.30	0.18	ppb	0.67	200	97.1	75 - 125	
118 Sn	115	1	196.40	0.07	ppb	0.79	200	98.2	75 - 125	
121 Sb	115	1	198.50	0.07	ppb	1.08	200	99.2	75 - 125	
137 Ba	115	1	848.90	670.00	ppb	0.72	200	97.6	75 - 125	
205 Tl	165	1	185.40	0.01	ppb	0.51	200	92.7	75 - 125	
208 Pb	165	1	180.30	1.08	ppb	0.40	200	89.7	75 - 125	
232 Th	165	1	0.32	0.28	ppb	2.13	200	0.2	75 - 125	
238 U	165	1	185.80	0.11	ppb	0.19	200	92.8	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	403238	1.93	488646	82.5	30 - 120	
45 Sc	1	2205861	0.60	2529221	87.2	30 - 120	
72 Ge	1	1269042	1.06	1504199	84.4	30 - 120	
115 In	1	3737433	0.87	4300457	86.9	30 - 120	
165 Ho	1	7152145	0.33	8234026	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\140_CCV.D\140_CCV.D#
Date Acquired:	Nov 16 2011 05:59 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.48	ppb	1.44	50	101.0	90 - 110	
51	V	72	1	50.29	ppb	1.37	50	100.6	90 - 110	
52	Cr	72	1	49.47	ppb	1.59	50	98.9	90 - 110	
55	Mn	72	1	49.75	ppb	1.46	50	99.5	90 - 110	
59	Co	72	1	50.17	ppb	1.90	50	100.3	90 - 110	
60	Ni	72	1	48.88	ppb	1.41	50	97.8	90 - 110	
63	Cu	72	1	47.58	ppb	1.54	50	95.2	90 - 110	
66	Zn	72	1	48.83	ppb	1.48	50	97.7	90 - 110	
75	As	72	1	49.58	ppb	1.29	50	99.2	90 - 110	
78	Se	72	1	48.31	ppb	3.48	50	96.6	90 - 110	
95	Mo	72	1	49.14	ppb	1.50	50	98.3	90 - 110	
107	Ag	115	1	49.78	ppb	2.04	50	99.6	90 - 110	
111	Cd	115	1	49.19	ppb	1.33	50	98.4	90 - 110	
118	Sn	115	1	47.88	ppb	0.32	50	95.8	90 - 110	
121	Sb	115	1	47.93	ppb	0.75	50	95.9	90 - 110	
137	Ba	115	1	49.84	ppb	0.72	50	99.7	90 - 110	
205	Tl	165	1	50.10	ppb	0.55	50	100.2	90 - 110	
208	Pb	165	1	48.89	ppb	0.14	50	97.8	90 - 110	
232	Th	165	1	49.47	ppb	1.12	50	98.9	90 - 110	
238	U	165	1	48.71	ppb	0.53	50	97.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	424244	1.00	488646	86.8	30 - 120	
45	Sc	1	2388687	0.90	2529221	94.4	30 - 120	
72	Ge	1	1410389	1.67	1504199	93.8	30 - 120	
115	In	1	4143869	0.66	4300457	96.4	30 - 120	
165	Ho	1	7834791	0.57	8234026	95.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\141_CCB.D\141_CCB.D#
Date Acquired: Nov 16 2011 06:02 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.011	ppb	142.58	1.00	
51	V	72	1	0.002	ppb	562.90	1.00	
52	Cr	72	1	0.012	ppb	29.94	1.00	
55	Mn	72	1	0.078	ppb	13.33	1.00	
59	Co	72	1	0.007	ppb	29.78	1.00	
60	Ni	72	1	0.008	ppb	33.56	1.00	
63	Cu	72	1	0.006	ppb	92.48	1.00	
66	Zn	72	1	0.006	ppb	96.20	1.00	
75	As	72	1	0.008	ppb	81.08	1.00	
78	Se	72	1	0.170	ppb	119.99	1.00	
95	Mo	72	1	0.010	ppb	16.18	1.00	
107	Ag	115	1	0.007	ppb	19.20	1.00	
111	Cd	115	1	0.007	ppb	23.66	1.00	
118	Sn	115	1	0.049	ppb	22.20	1.00	
121	Sb	115	1	0.019	ppb	28.78	1.00	
137	Ba	115	1	0.024	ppb	15.07	1.00	
205	Tl	165	1	0.015	ppb	9.42	1.00	
208	Pb	165	1	0.007	ppb	19.67	1.00	
232	Th	165	1	0.024	ppb	15.80	1.00	
238	U	165	1	0.016	ppb	7.13	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	433374	1.31	488646	88.7	30 - 120	
45	Sc	1	2397143	0.22	2529221	94.8	30 - 120	
72	Ge	1	1432283	0.45	1504199	95.2	30 - 120	
115	In	1	4200442	0.76	4300457	97.7	30 - 120	
165	Ho	1	7824410	0.19	8234026	95.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\142WASH.D\142WASH.D#
Date Acquired:	Nov 16 2011 06:04 pm
Operator:	TEL
Sample Name:	LLICV-1131923
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.134 ppb	19.29	1.30	
51	V	72	1	4.908 ppb	2.58	6.50	
52	Cr	72	1	2.071 ppb	1.27	2.60	
55	Mn	72	1	1.105 ppb	1.63	1.30	
59	Co	72	1	1.010 ppb	1.50	1.30	
60	Ni	72	1	2.082 ppb	3.31	2.60	
63	Cu	72	1	2.010 ppb	1.54	2.60	
66	Zn	72	1	10.180 ppb	1.27	13.00	
75	As	72	1	5.253 ppb	1.88	6.50	
78	Se	72	1	5.473 ppb	5.51	6.50	
95	Mo	72	1	2.084 ppb	1.59	2.60	
107	Ag	115	1	5.066 ppb	1.32	6.50	
111	Cd	115	1	1.034 ppb	5.31	1.30	
118	Sn	115	1	10.250 ppb	1.20	13.00	
121	Sb	115	1	1.995 ppb	2.45	2.60	
137	Ba	115	1	1.083 ppb	0.96	1.30	
205	Tl	165	1	1.044 ppb	0.91	1.30	
208	Pb	165	1	1.017 ppb	0.88	1.30	
232	Th	165	1	2.036 ppb	1.68	2.60	
238	U	165	1	0.997 ppb	0.55	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	435848	1.18	488646	89.2	30 - 120	
45	Sc	1	2436796	2.02	2529221	96.3	30 - 120	
72	Ge	1	1437237	1.53	1504199	95.5	30 - 120	
115	In	1	4211340	0.45	4300457	97.9	30 - 120	
165	Ho	1	7884191	0.22	8234026	95.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\143_MS.D\143_MS.D#		
Date Acquired:	Nov 16 2011 06:07 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	TEL	ISTD:	Pass
Sample Name:	280-22754-e-4-i ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	3310		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 04:23 pm		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		
Spike Ref. File:	---		

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	44.34	0.03	ppb	3.00	40	110.8	50 - 150	
51	V	72	1	44.16	2.00	ppb	2.22	40	105.2	50 - 150	
52	Cr	72	1	41.81	0.80	ppb	2.01	40	102.5	50 - 150	
55	Mn	72	1	1896.00	1838.00	ppb	2.07	40	101.0	50 - 150	
59	Co	72	1	41.93	0.41	ppb	2.59	40	103.8	50 - 150	
60	Ni	72	1	41.04	2.08	ppb	1.63	40	97.5	50 - 150	
63	Cu	72	1	38.14	1.16	ppb	1.97	40	92.7	50 - 150	
66	Zn	72	1	51.88	12.41	ppb	1.74	40	99.0	50 - 150	
75	As	72	1	68.10	23.97	ppb	1.40	40	106.5	50 - 150	
78	Se	72	1	40.00	0.35	ppb	2.54	40	99.1	50 - 150	
95	Mo	72	1	44.29	0.42	ppb	2.30	40	109.6	50 - 150	
107	Ag	115	1	38.10	0.01	ppb	0.53	40	95.2	50 - 150	
111	Cd	115	1	41.18	0.18	ppb	0.19	40	102.5	50 - 150	
118	Sn	115	1	34.43	0.07	ppb	1.48	40	85.9	50 - 150	
121	Sb	115	1	40.19	0.07	ppb	0.63	40	100.3	50 - 150	
137	Ba	115	1	717.30	670.00	ppb	1.08	40	101.0	50 - 150	
205	Tl	165	1	41.29	0.01	ppb	0.59	40	103.2	50 - 150	
208	Pb	165	1	39.95	1.08	ppb	0.32	40	97.3	50 - 150	
232	Th	165	1	42.15	0.28	ppb	0.32	40	104.6	50 - 150	
238	U	165	1	41.62	0.11	ppb	1.35	40	103.8	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	396870	0.89	488646	81.2	30 - 120	
45	Sc	1	2224637	1.21	2529221	88.0	30 - 120	
72	Ge	1	1267342	1.33	1504199	84.3	30 - 120	
115	In	1	3719004	0.14	4300457	86.5	30 - 120	
165	Ho	1	7113610	0.29	8234026	86.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\144_MSD.D\144_MSD.D#
Date Acquired:	Nov 16 2011 06:10 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-4-j msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	3311
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\143_MS.D\143_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	45.11	ppb	2.81	44.34	1.72	20	
51	V	72	1	44.07	ppb	0.91	44.16	0.20	20	
52	Cr	72	1	41.86	ppb	1.04	41.81	0.12	20	
55	Mn	72	1	1888.00	ppb	0.54	1896.00	0.42	20	
59	Co	72	1	41.66	ppb	0.88	41.93	0.65	20	
60	Ni	72	1	40.43	ppb	0.99	41.04	1.50	20	
63	Cu	72	1	38.03	ppb	0.75	38.14	0.29	20	
66	Zn	72	1	51.40	ppb	0.33	51.88	0.93	20	
75	As	72	1	67.78	ppb	1.19	68.10	0.47	20	
78	Se	72	1	39.34	ppb	3.75	40.00	1.66	20	
95	Mo	72	1	44.55	ppb	0.88	44.29	0.59	20	
107	Ag	115	1	38.22	ppb	0.92	38.10	0.31	20	
111	Cd	115	1	41.43	ppb	0.48	41.18	0.61	20	
118	Sn	115	1	33.96	ppb	0.40	34.43	1.37	20	
121	Sb	115	1	40.15	ppb	0.48	40.19	0.10	20	
137	Ba	115	1	713.50	ppb	0.59	717.30	0.53	20	
205	Tl	165	1	41.06	ppb	0.61	41.29	0.56	20	
208	Pb	165	1	39.77	ppb	0.94	39.95	0.45	20	
232	Th	165	1	42.08	ppb	1.77	42.15	0.17	20	
238	U	165	1	41.73	ppb	0.43	41.62	0.26	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	390977	1.44	488646	80.0	30 - 120	
45	Sc	1	2177447	1.82	2529221	86.1	30 - 120	
72	Ge	1	1255457	0.17	1504199	83.5	30 - 120	
115	In	1	3662689	0.75	4300457	85.2	30 - 120	
165	Ho	1	7083118	0.74	8234026	86.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\145SMPL.D\145SMPL.D#
Date Acquired: Nov 16 2011 06:13 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-5-c
Misc Info:
Vial Number: 3312
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	104.36	3600	
51	V	72	1	1.83	1.83	ppb	1.95	3600	
52	Cr	72	1	0.68	0.68	ppb	3.59	3600	
55	Mn	72	1	1,710.00	1710.00	ppb	0.89	18000	
59	Co	72	1	0.32	0.32	ppb	3.04	3600	
60	Ni	72	1	1.54	1.54	ppb	1.43	3600	
63	Cu	72	1	2.33	2.33	ppb	1.72	3600	
66	Zn	72	1	5.14	5.14	ppb	1.44	3600	
75	As	72	1	15.62	15.62	ppb	0.61	3600	
78	Se	72	1	0.60	0.60	ppb	18.40	3600	
95	Mo	72	1	0.16	0.16	ppb	11.70	3600	
107	Ag	115	1	0.01	0.01	ppb	16.72	3600	
111	Cd	115	1	0.04	0.04	ppb	15.53	3600	
118	Sn	115	1	0.12	0.12	ppb	12.72	3600	
121	Sb	115	1	0.06	0.06	ppb	7.42	3600	
137	Ba	115	1	585.10	585.10	ppb	0.62	3600	
205	Tl	165	1	0.02	0.02	ppb	12.66	3600	
208	Pb	165	1	0.55	0.55	ppb	0.74	3600	
232	Th	165	1	0.23	0.23	ppb	3.42	1000	
238	U	165	1	0.39	0.39	ppb	0.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	392977	1.42	488646	80.4	30 - 120	
45	Sc	1	2184862	0.68	2529221	86.4	30 - 120	
72	Ge	1	1254561	1.02	1504199	83.4	30 - 120	
115	In	1	3720309	0.79	4300457	86.5	30 - 120	
165	Ho	1	7060930	0.48	8234026	85.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\146SMPL.D\146SMPL.D#
Date Acquired:	Nov 16 2011 06:16 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22754-e-6-c
Misc Info:	
Vial Number:	3401
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	141.94	3600	
51	V	72	1	0.37	0.37	ppb	5.96	3600	
52	Cr	72	1	0.20	0.20	ppb	3.25	3600	
55	Mn	72	1	217.30	217.30	ppb	1.50	18000	
59	Co	72	1	0.11	0.11	ppb	7.78	3600	
60	Ni	72	1	1.58	1.58	ppb	5.46	3600	
63	Cu	72	1	0.20	0.20	ppb	5.39	3600	
66	Zn	72	1	7.46	7.46	ppb	0.91	3600	
75	As	72	1	1.09	1.09	ppb	2.00	3600	
78	Se	72	1	0.61	0.61	ppb	18.80	3600	
95	Mo	72	1	1.93	1.93	ppb	1.35	3600	
107	Ag	115	1	0.01	0.01	ppb	34.33	3600	
111	Cd	115	1	0.01	0.01	ppb	56.73	3600	
118	Sn	115	1	0.13	0.13	ppb	14.16	3600	
121	Sb	115	1	0.03	0.03	ppb	13.45	3600	
137	Ba	115	1	2,431.00	2431.00	ppb	0.31	3600	
205	Tl	165	1	0.02	0.02	ppb	8.65	3600	
208	Pb	165	1	0.14	0.14	ppb	5.92	3600	
232	Th	165	1	0.08	0.08	ppb	3.58	1000	
238	U	165	1	0.09	0.09	ppb	1.44	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	377380	0.27	488646	77.2	30 - 120	
45	Sc	1	2121625	0.81	2529221	83.9	30 - 120	
72	Ge	1	1178360	0.61	1504199	78.3	30 - 120	
115	In	1	3466622	0.28	4300457	80.6	30 - 120	
165	Ho	1	6747984	0.38	8234026	82.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\147SMPL.D\147SMPL.D#
Date Acquired: Nov 16 2011 06:19 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22754-e-7-c
Misc Info:
Vial Number: 3402
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.08	0.08	ppb	57.22	3600	
51	V	72	1	1.90	1.90	ppb	4.14	3600	
52	Cr	72	1	0.79	0.79	ppb	2.85	3600	
55	Mn	72	1	1,820.00	1820.00	ppb	1.66	18000	
59	Co	72	1	0.40	0.40	ppb	2.26	3600	
60	Ni	72	1	1.97	1.97	ppb	5.24	3600	
63	Cu	72	1	1.14	1.14	ppb	2.57	3600	
66	Zn	72	1	11.86	11.86	ppb	1.61	3600	
75	As	72	1	25.03	25.03	ppb	0.94	3600	
78	Se	72	1	0.40	0.40	ppb	18.06	3600	
95	Mo	72	1	0.44	0.44	ppb	3.21	3600	
107	Ag	115	1	0.00	0.00	ppb	65.79	3600	
111	Cd	115	1	0.12	0.12	ppb	16.13	3600	
118	Sn	115	1	0.08	0.08	ppb	6.90	3600	
121	Sb	115	1	0.08	0.08	ppb	3.72	3600	
137	Ba	115	1	661.10	661.10	ppb	1.63	3600	
205	Tl	165	1	0.01	0.01	ppb	8.59	3600	
208	Pb	165	1	1.02	1.02	ppb	0.59	3600	
232	Th	165	1	0.25	0.25	ppb	2.24	1000	
238	U	165	1	0.11	0.11	ppb	3.50	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	383781	1.61	488646	78.5	30 - 120	
45	Sc	1	2123648	0.52	2529221	84.0	30 - 120	
72	Ge	1	1237030	0.37	1504199	82.2	30 - 120	
115	In	1	3635623	0.71	4300457	84.5	30 - 120	
165	Ho	1	6904790	0.19	8234026	83.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\148SMPL.D\148SMPL.D#
Date Acquired:	Nov 16 2011 06:22 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-1-g
Misc Info:	
Vial Number:	3403
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	51.35	3600	
51	V	72	1	0.85	0.85	ppb	3.87	3600	
52	Cr	72	1	0.20	0.20	ppb	5.72	3600	
55	Mn	72	1	2,786.00	2786.00	ppb	1.85	18000	
59	Co	72	1	4.24	4.24	ppb	1.49	3600	
60	Ni	72	1	15.45	15.45	ppb	2.44	3600	
63	Cu	72	1	0.75	0.75	ppb	4.77	3600	
66	Zn	72	1	3.74	3.74	ppb	1.08	3600	
75	As	72	1	6.86	6.86	ppb	2.44	3600	
78	Se	72	1	0.32	0.32	ppb	70.55	3600	
95	Mo	72	1	4.13	4.13	ppb	3.24	3600	
107	Ag	115	1	0.01	0.01	ppb	9.38	3600	
111	Cd	115	1	0.05	0.05	ppb	11.11	3600	
118	Sn	115	1	0.10	0.10	ppb	9.46	3600	
121	Sb	115	1	0.31	0.31	ppb	3.41	3600	
137	Ba	115	1	250.70	250.70	ppb	0.56	3600	
205	Tl	165	1	0.00	0.00	ppb	14.31	3600	
208	Pb	165	1	0.47	0.47	ppb	1.98	3600	
232	Th	165	1	0.03	0.03	ppb	2.03	1000	
238	U	165	1	3.35	3.35	ppb	1.45	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	390625	2.01	488646	79.9	30 - 120	
45	Sc	1	2143192	1.29	2529221	84.7	30 - 120	
72	Ge	1	1219868	1.26	1504199	81.1	30 - 120	
115	In	1	3614764	0.71	4300457	84.1	30 - 120	
165	Ho	1	7015565	0.90	8234026	85.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\149SMPL.D\149SMPL.D#
Date Acquired: Nov 16 2011 06:25 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-2-c
Misc Info:
Vial Number: 3404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.07	0.07	ppb	29.19	3600	
51 V	72	1	3.48	3.48	ppb	2.81	3600	
52 Cr	72	1	1.19	1.19	ppb	2.86	3600	
55 Mn	72	1	254.60	254.60	ppb	2.18	18000	
59 Co	72	1	0.72	0.72	ppb	3.71	3600	
60 Ni	72	1	2.63	2.63	ppb	1.90	3600	
63 Cu	72	1	1.28	1.28	ppb	1.99	3600	
66 Zn	72	1	7.25	7.25	ppb	2.17	3600	
75 As	72	1	3.46	3.46	ppb	2.22	3600	
78 Se	72	1	0.37	0.37	ppb	56.27	3600	
95 Mo	72	1	0.51	0.51	ppb	4.06	3600	
107 Ag	115	1	0.01	0.01	ppb	4.04	3600	
111 Cd	115	1	0.04	0.04	ppb	19.65	3600	
118 Sn	115	1	0.08	0.08	ppb	4.20	3600	
121 Sb	115	1	0.14	0.14	ppb	3.94	3600	
137 Ba	115	1	676.50	676.50	ppb	2.01	3600	
205 Tl	165	1	0.02	0.02	ppb	6.66	3600	
208 Pb	165	1	0.80	0.80	ppb	1.85	3600	
232 Th	165	1	0.24	0.24	ppb	2.64	1000	
238 U	165	1	0.44	0.44	ppb	2.20	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	389654	1.39	488646	79.7	30 - 120	
45 Sc	1	2185769	0.71	2529221	86.4	30 - 120	
72 Ge	1	1264017	0.99	1504199	84.0	30 - 120	
115 In	1	3648987	0.93	4300457	84.9	30 - 120	
165 Ho	1	7001748	0.77	8234026	85.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\150SMPL.D\150SMPL.D#
Date Acquired: Nov 16 2011 06:28 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-3-c
Misc Info:
Vial Number: 3405
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.04	0.04	ppb	23.77	3600	
51 V	72	1	3.19	3.19	ppb	2.25	3600	
52 Cr	72	1	0.94	0.94	ppb	2.06	3600	
55 Mn	72	1	560.50	560.50	ppb	0.42	18000	
59 Co	72	1	0.60	0.60	ppb	2.75	3600	
60 Ni	72	1	3.16	3.16	ppb	3.59	3600	
63 Cu	72	1	2.20	2.20	ppb	1.91	3600	
66 Zn	72	1	23.07	23.07	ppb	1.09	3600	
75 As	72	1	9.74	9.74	ppb	1.06	3600	
78 Se	72	1	0.76	0.76	ppb	19.65	3600	
95 Mo	72	1	2.38	2.38	ppb	0.99	3600	
107 Ag	115	1	0.01	0.01	ppb	31.21	3600	
111 Cd	115	1	0.09	0.09	ppb	11.43	3600	
118 Sn	115	1	0.09	0.09	ppb	3.69	3600	
121 Sb	115	1	0.36	0.36	ppb	3.33	3600	
137 Ba	115	1	364.00	364.00	ppb	1.59	3600	
205 Tl	165	1	0.01	0.01	ppb	4.34	3600	
208 Pb	165	1	0.87	0.87	ppb	0.61	3600	
232 Th	165	1	0.14	0.14	ppb	3.88	1000	
238 U	165	1	1.57	1.57	ppb	0.45	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	389369	1.39	488646	79.7	30 - 120	
45 Sc	1	2181340	0.61	2529221	86.2	30 - 120	
72 Ge	1	1248585	0.55	1504199	83.0	30 - 120	
115 In	1	3635328	0.52	4300457	84.5	30 - 120	
165 Ho	1	7100405	0.74	8234026	86.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\151_CCV.D\151_CCV.D#
Date Acquired:	Nov 16 2011 06:31 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 04:23 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.79	ppb	3.74	50	99.6	90 - 110	
51	V	72	1	48.97	ppb	2.88	50	97.9	90 - 110	
52	Cr	72	1	49.05	ppb	1.30	50	98.1	90 - 110	
55	Mn	72	1	50.36	ppb	1.93	50	100.7	90 - 110	
59	Co	72	1	50.57	ppb	0.81	50	101.1	90 - 110	
60	Ni	72	1	48.82	ppb	1.56	50	97.6	90 - 110	
63	Cu	72	1	47.74	ppb	1.47	50	95.5	90 - 110	
66	Zn	72	1	49.21	ppb	1.52	50	98.4	90 - 110	
75	As	72	1	50.14	ppb	1.28	50	100.3	90 - 110	
78	Se	72	1	49.98	ppb	3.36	50	100.0	90 - 110	
95	Mo	72	1	49.41	ppb	0.66	50	98.8	90 - 110	
107	Ag	115	1	49.92	ppb	1.39	50	99.8	90 - 110	
111	Cd	115	1	49.71	ppb	0.60	50	99.4	90 - 110	
118	Sn	115	1	48.41	ppb	0.29	50	96.8	90 - 110	
121	Sb	115	1	48.42	ppb	0.71	50	96.8	90 - 110	
137	Ba	115	1	50.11	ppb	0.31	50	100.2	90 - 110	
205	Tl	165	1	50.28	ppb	1.73	50	100.6	90 - 110	
208	Pb	165	1	49.01	ppb	1.78	50	98.0	90 - 110	
232	Th	165	1	49.79	ppb	1.00	50	99.6	90 - 110	
238	U	165	1	48.78	ppb	0.81	50	97.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	422915	0.46	488646	86.5	30 - 120	
45	Sc	1	2261098	1.08	2529221	89.4	30 - 120	
72	Ge	1	1343055	1.23	1504199	89.3	30 - 120	
115	In	1	3951256	0.03	4300457	91.9	30 - 120	
165	Ho	1	7509051	1.56	8234026	91.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\152_CCB.D\152_CCB.D#
Date Acquired: Nov 16 2011 06:33 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.011	ppb	1.25	1.00	
51	V	72	1	0.011	ppb	42.33	1.00	
52	Cr	72	1	0.022	ppb	42.34	1.00	
55	Mn	72	1	0.062	ppb	20.36	1.00	
59	Co	72	1	0.005	ppb	2.43	1.00	
60	Ni	72	1	0.010	ppb	17.44	1.00	
63	Cu	72	1	-0.005	ppb	129.83	1.00	
66	Zn	72	1	0.020	ppb	32.13	1.00	
75	As	72	1	0.013	ppb	42.97	1.00	
78	Se	72	1	0.203	ppb	120.02	1.00	
95	Mo	72	1	-0.001	ppb	220.61	1.00	
107	Ag	115	1	0.009	ppb	19.52	1.00	
111	Cd	115	1	0.000	ppb	2174.70	1.00	
118	Sn	115	1	0.022	ppb	51.14	1.00	
121	Sb	115	1	0.011	ppb	12.69	1.00	
137	Ba	115	1	0.045	ppb	8.19	1.00	
205	Tl	165	1	0.010	ppb	14.93	1.00	
208	Pb	165	1	0.006	ppb	29.96	1.00	
232	Th	165	1	0.029	ppb	15.09	1.00	
238	U	165	1	0.011	ppb	7.44	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	426222	0.89	488646	87.2	30 - 120	
45	Sc	1	2283057	0.37	2529221	90.3	30 - 120	
72	Ge	1	1358640	1.20	1504199	90.3	30 - 120	
115	In	1	4036534	1.71	4300457	93.9	30 - 120	
165	Ho	1	7485606	0.58	8234026	90.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\153WASH.D\153WASH.D#
Date Acquired: Nov 16 2011 06:36 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.996	ppb	6.55	1.30	
51	V	72	1	5.042	ppb	0.70	6.50	
52	Cr	72	1	2.078	ppb	1.79	2.60	
55	Mn	72	1	1.095	ppb	2.70	1.30	
59	Co	72	1	1.018	ppb	0.74	1.30	
60	Ni	72	1	2.007	ppb	2.56	2.60	
63	Cu	72	1	1.978	ppb	1.15	2.60	
66	Zn	72	1	10.140	ppb	0.45	13.00	
75	As	72	1	5.245	ppb	0.84	6.50	
78	Se	72	1	4.945	ppb	2.29	6.50	
95	Mo	72	1	2.072	ppb	3.69	2.60	
107	Ag	115	1	5.120	ppb	2.47	6.50	
111	Cd	115	1	1.058	ppb	3.13	1.30	
118	Sn	115	1	10.260	ppb	3.47	13.00	
121	Sb	115	1	2.013	ppb	1.01	2.60	
137	Ba	115	1	1.047	ppb	2.44	1.30	
205	Tl	165	1	1.027	ppb	0.15	1.30	
208	Pb	165	1	1.001	ppb	1.62	1.30	
232	Th	165	1	2.009	ppb	1.46	2.60	
238	U	165	1	0.988	ppb	1.48	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	422052	0.82	488646	86.4	30 - 120	
45	Sc	1	2289636	0.70	2529221	90.5	30 - 120	
72	Ge	1	1353084	0.36	1504199	90.0	30 - 120	
115	In	1	3977219	1.38	4300457	92.5	30 - 120	
165	Ho	1	7552150	0.29	8234026	91.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\154SMPL.D\154SMPL.D#		
Date Acquired:	Nov 16 2011 06:39 pm		
Acq. Method:	NormISIS.M	QC Summary:	
Operator:	TEL	Analytes:	Pass
Sample Name:	280-22775-e-4-c	ISTD:	Pass
Misc Info:			
Vial Number:	3406		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 04:23 pm		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	53.32	3600	
51	V	72	1	0.75	0.75	ppb	1.96	3600	
52	Cr	72	1	0.15	0.15	ppb	4.56	3600	
55	Mn	72	1	4,817.00	4817.00	ppb	0.57	18000	
59	Co	72	1	6.48	6.48	ppb	0.69	3600	
60	Ni	72	1	17.32	17.32	ppb	0.22	3600	
63	Cu	72	1	0.59	0.59	ppb	4.39	3600	
66	Zn	72	1	4.56	4.56	ppb	1.45	3600	
75	As	72	1	8.11	8.11	ppb	1.06	3600	
78	Se	72	1	0.59	0.59	ppb	18.23	3600	
95	Mo	72	1	0.79	0.79	ppb	1.47	3600	
107	Ag	115	1	0.00	0.00	ppb	87.78	3600	
111	Cd	115	1	0.04	0.04	ppb	23.09	3600	
118	Sn	115	1	0.05	0.05	ppb	31.87	3600	
121	Sb	115	1	0.16	0.16	ppb	1.75	3600	
137	Ba	115	1	1,123.00	1123.00	ppb	0.46	3600	
205	Tl	165	1	0.05	0.05	ppb	2.35	3600	
208	Pb	165	1	0.13	0.13	ppb	2.21	3600	
232	Th	165	1	0.02	0.02	ppb	15.65	1000	
238	U	165	1	1.58	1.58	ppb	1.86	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	390201	0.52	488646	79.9	30 - 120	
45	Sc	1	2181810	2.06	2529221	86.3	30 - 120	
72	Ge	1	1227262	0.86	1504199	81.6	30 - 120	
115	In	1	3650539	0.69	4300457	84.9	30 - 120	
165	Ho	1	7080708	1.16	8234026	86.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\155SMPL.D\155SMPL.D#
Date Acquired:	Nov 16 2011 06:42 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-5-c
Misc Info:	
Vial Number:	3407
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	141.47	3600	
51	V	72	1	0.93	0.93	ppb	1.86	3600	
52	Cr	72	1	0.36	0.36	ppb	2.77	3600	
55	Mn	72	1	811.80	811.80	ppb	0.87	18000	
59	Co	72	1	0.19	0.19	ppb	4.50	3600	
60	Ni	72	1	1.11	1.11	ppb	3.75	3600	
63	Cu	72	1	1.01	1.01	ppb	3.28	3600	
66	Zn	72	1	7.80	7.80	ppb	1.26	3600	
75	As	72	1	11.54	11.54	ppb	2.00	3600	
78	Se	72	1	0.38	0.38	ppb	35.40	3600	
95	Mo	72	1	0.82	0.82	ppb	5.18	3600	
107	Ag	115	1	0.00	0.00	ppb	30.81	3600	
111	Cd	115	1	0.07	0.07	ppb	8.21	3600	
118	Sn	115	1	0.07	0.07	ppb	11.36	3600	
121	Sb	115	1	0.08	0.08	ppb	5.34	3600	
137	Ba	115	1	439.30	439.30	ppb	0.86	3600	
205	Tl	165	1	0.00	0.00	ppb	28.76	3600	
208	Pb	165	1	0.87	0.87	ppb	1.70	3600	
232	Th	165	1	0.04	0.04	ppb	6.33	1000	
238	U	165	1	3.28	3.28	ppb	0.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	377814	0.51	488646	77.3	30 - 120	
45	Sc	1	2091318	0.93	2529221	82.7	30 - 120	
72	Ge	1	1209098	1.22	1504199	80.4	30 - 120	
115	In	1	3565691	0.19	4300457	82.9	30 - 120	
165	Ho	1	6737433	0.49	8234026	81.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\156SMPL.D\156SMPL.D#
Date Acquired: Nov 16 2011 06:45 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-6-c
Misc Info:
Vial Number: 3408
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	712.69	3600	
51	V	72	1	0.35	0.35	ppb	11.31	3600	
52	Cr	72	1	0.09	0.09	ppb	13.87	3600	
55	Mn	72	1	2,010.00	2010.00	ppb	0.98	18000	
59	Co	72	1	1.60	1.60	ppb	1.11	3600	
60	Ni	72	1	9.05	9.05	ppb	1.30	3600	
63	Cu	72	1	0.80	0.80	ppb	3.66	3600	
66	Zn	72	1	9.36	9.36	ppb	1.18	3600	
75	As	72	1	52.15	52.15	ppb	1.47	3600	
78	Se	72	1	1.29	1.29	ppb	31.27	3600	
95	Mo	72	1	4.51	4.51	ppb	1.66	3600	
107	Ag	115	1	0.00	0.00	ppb	18.33	3600	
111	Cd	115	1	0.08	0.08	ppb	15.08	3600	
118	Sn	115	1	0.08	0.08	ppb	7.51	3600	
121	Sb	115	1	0.15	0.15	ppb	4.67	3600	
137	Ba	115	1	261.90	261.90	ppb	1.19	3600	
205	Tl	165	1	0.09	0.09	ppb	2.85	3600	
208	Pb	165	1	0.17	0.17	ppb	3.74	3600	
232	Th	165	1	0.00	0.00	ppb	24.05	1000	
238	U	165	1	9.75	9.75	ppb	0.36	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	371646	0.18	488646	76.1	30 - 120	
45	Sc	1	2076991	0.41	2529221	82.1	30 - 120	
72	Ge	1	1162385	0.91	1504199	77.3	30 - 120	
115	In	1	3487503	0.61	4300457	81.1	30 - 120	
165	Ho	1	6745225	0.21	8234026	81.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\157SMPL.D\157SMPL.D#		
Date Acquired:	Nov 16 2011 06:48 pm		
Acq. Method:	NormISIS.M	QC Summary:	
Operator:	TEL	Analytes:	Pass
Sample Name:	280-22775-e-7-c	ISTD:	Pass
Misc Info:			
Vial Number:	3409		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 04:23 pm		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	106.93	3600	
51	V	72	1	0.70	0.70	ppb	1.37	3600	
52	Cr	72	1	0.87	0.87	ppb	0.81	3600	
55	Mn	72	1	864.10	864.10	ppb	0.35	18000	
59	Co	72	1	1.10	1.10	ppb	1.32	3600	
60	Ni	72	1	5.25	5.25	ppb	1.18	3600	
63	Cu	72	1	0.95	0.95	ppb	1.15	3600	
66	Zn	72	1	3.45	3.45	ppb	1.56	3600	
75	As	72	1	64.81	64.81	ppb	0.49	3600	
78	Se	72	1	0.54	0.54	ppb	68.74	3600	
95	Mo	72	1	12.01	12.01	ppb	1.21	3600	
107	Ag	115	1	0.00	0.00	ppb	48.65	3600	
111	Cd	115	1	0.09	0.09	ppb	2.70	3600	
118	Sn	115	1	0.05	0.05	ppb	12.23	3600	
121	Sb	115	1	0.09	0.09	ppb	2.47	3600	
137	Ba	115	1	161.30	161.30	ppb	0.81	3600	
205	Tl	165	1	0.02	0.02	ppb	11.94	3600	
208	Pb	165	1	0.13	0.13	ppb	3.33	3600	
232	Th	165	1	0.01	0.01	ppb	7.90	1000	
238	U	165	1	1.98	1.98	ppb	0.53	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	376074	0.95	488646	77.0	30 - 120	
45	Sc	1	2091720	0.51	2529221	82.7	30 - 120	
72	Ge	1	1175695	1.17	1504199	78.2	30 - 120	
115	In	1	3497490	0.88	4300457	81.3	30 - 120	
165	Ho	1	6761838	0.22	8234026	82.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\158SMPL.D\158SMPL.D#
Date Acquired:	Nov 16 2011 06:51 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22775-e-8-c
Misc Info:	
Vial Number:	3410
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	0.78	3600	
51	V	72	1	0.47	0.47	ppb	8.62	3600	
52	Cr	72	1	0.16	0.16	ppb	7.75	3600	
55	Mn	72	1	3,305.00	3305.00	ppb	0.86	18000	
59	Co	72	1	2.85	2.85	ppb	1.12	3600	
60	Ni	72	1	3.84	3.84	ppb	0.18	3600	
63	Cu	72	1	1.28	1.28	ppb	1.73	3600	
66	Zn	72	1	5.82	5.82	ppb	0.95	3600	
75	As	72	1	158.10	158.10	ppb	0.87	3600	
78	Se	72	1	1.74	1.74	ppb	3.92	3600	
95	Mo	72	1	0.80	0.80	ppb	3.03	3600	
107	Ag	115	1	0.02	0.02	ppb	30.19	3600	
111	Cd	115	1	0.03	0.03	ppb	36.84	3600	
118	Sn	115	1	0.05	0.05	ppb	20.66	3600	
121	Sb	115	1	0.05	0.05	ppb	7.69	3600	
137	Ba	115	1	632.80	632.80	ppb	0.61	3600	
205	Tl	165	1	0.02	0.02	ppb	1.65	3600	
208	Pb	165	1	0.16	0.16	ppb	1.69	3600	
232	Th	165	1	0.03	0.03	ppb	9.36	1000	
238	U	165	1	0.37	0.37	ppb	1.53	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	361988	0.58	488646	74.1	30 - 120	
45	Sc	1	2011548	0.66	2529221	79.5	30 - 120	
72	Ge	1	1154360	0.64	1504199	76.7	30 - 120	
115	In	1	3388283	0.24	4300457	78.8	30 - 120	
165	Ho	1	6610074	0.86	8234026	80.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\159SMPL.D\159SMPL.D#
Date Acquired: Nov 16 2011 06:54 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-9-c
Misc Info:
Vial Number: 3411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	0.00	3600	
51	V	72	1	0.00	0.00	ppb	657.41	3600	
52	Cr	72	1	0.03	0.03	ppb	15.95	3600	
55	Mn	72	1	0.43	0.43	ppb	9.78	18000	
59	Co	72	1	0.00	0.00	ppb	135.13	3600	
60	Ni	72	1	0.04	0.04	ppb	40.45	3600	
63	Cu	72	1	0.26	0.26	ppb	4.01	3600	
66	Zn	72	1	1.26	1.26	ppb	1.04	3600	
75	As	72	1	0.02	0.02	ppb	60.58	3600	
78	Se	72	1	0.42	0.42	ppb	60.99	3600	
95	Mo	72	1	-0.01	-0.01	ppb	58.34	3600	
107	Ag	115	1	0.00	0.00	ppb	47.21	3600	
111	Cd	115	1	0.00	0.00	ppb	148.88	3600	
118	Sn	115	1	0.02	0.02	ppb	36.28	3600	
121	Sb	115	1	0.00	0.00	ppb	318.19	3600	
137	Ba	115	1	0.17	0.17	ppb	7.43	3600	
205	Tl	165	1	0.00	0.00	ppb	49.78	3600	
208	Pb	165	1	0.02	0.02	ppb	9.30	3600	
232	Th	165	1	0.00	0.00	ppb	48.23	1000	
238	U	165	1	0.00	0.00	ppb	27.70	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	407260	0.82	488646	83.3	30 - 120	
45	Sc	1	2270994	1.60	2529221	89.8	30 - 120	
72	Ge	1	1365030	1.95	1504199	90.7	30 - 120	
115	In	1	4029816	0.76	4300457	93.7	30 - 120	
165	Ho	1	7367334	0.79	8234026	89.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\160SMPL.D\160SMPL.D#
Date Acquired: Nov 16 2011 06:57 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22775-e-10-c
Misc Info:
Vial Number: 3412
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 04:23 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	1131.90	3600	
51	V	72	1	0.00	0.00	ppb	1282.90	3600	
52	Cr	72	1	0.03	0.03	ppb	18.27	3600	
55	Mn	72	1	0.10	0.10	ppb	4.24	18000	
59	Co	72	1	0.00	0.00	ppb	91.66	3600	
60	Ni	72	1	0.05	0.05	ppb	11.36	3600	
63	Cu	72	1	0.14	0.14	ppb	9.55	3600	
66	Zn	72	1	1.06	1.06	ppb	2.07	3600	
75	As	72	1	0.01	0.01	ppb	64.90	3600	
78	Se	72	1	0.36	0.36	ppb	20.59	3600	
95	Mo	72	1	0.00	0.00	ppb	5.07	3600	
107	Ag	115	1	0.00	0.00	ppb	71.58	3600	
111	Cd	115	1	0.00	0.00	ppb	150.78	3600	
118	Sn	115	1	0.03	0.03	ppb	45.07	3600	
121	Sb	115	1	0.00	0.00	ppb	38.33	3600	
137	Ba	115	1	0.12	0.12	ppb	14.63	3600	
205	Tl	165	1	0.00	0.00	ppb	36.70	3600	
208	Pb	165	1	0.02	0.02	ppb	10.47	3600	
232	Th	165	1	0.00	0.00	ppb	4646.60	1000	
238	U	165	1	0.00	0.00	ppb	21.06	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	410527	1.56	488646	84.0	30 - 120	
45	Sc	1	2323642	1.52	2529221	91.9	30 - 120	
72	Ge	1	1390524	1.04	1504199	92.4	30 - 120	
115	In	1	4084420	1.61	4300457	95.0	30 - 120	
165	Ho	1	7507628	0.84	8234026	91.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\161_CCV.D\161_CCV.D#
Date Acquired: Nov 16 2011 07:00 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.11	ppb	0.60	50	100.2	90 - 110	
51	V	72	1	48.74	ppb	0.91	50	97.5	90 - 110	
52	Cr	72	1	48.65	ppb	1.94	50	97.3	90 - 110	
55	Mn	72	1	48.97	ppb	2.19	50	97.9	90 - 110	
59	Co	72	1	49.25	ppb	2.11	50	98.5	90 - 110	
60	Ni	72	1	47.75	ppb	1.29	50	95.5	90 - 110	
63	Cu	72	1	46.81	ppb	1.74	50	93.6	90 - 110	
66	Zn	72	1	48.06	ppb	0.76	50	96.1	90 - 110	
75	As	72	1	49.71	ppb	0.93	50	99.4	90 - 110	
78	Se	72	1	49.73	ppb	0.73	50	99.5	90 - 110	
95	Mo	72	1	48.89	ppb	0.79	50	97.8	90 - 110	
107	Ag	115	1	49.57	ppb	1.59	50	99.1	90 - 110	
111	Cd	115	1	48.77	ppb	0.37	50	97.5	90 - 110	
118	Sn	115	1	48.05	ppb	0.82	50	96.1	90 - 110	
121	Sb	115	1	47.75	ppb	0.45	50	95.5	90 - 110	
137	Ba	115	1	49.91	ppb	0.18	50	99.8	90 - 110	
205	Tl	165	1	50.13	ppb	0.89	50	100.3	90 - 110	
208	Pb	165	1	48.49	ppb	0.84	50	97.0	90 - 110	
232	Th	165	1	48.83	ppb	1.64	50	97.7	90 - 110	
238	U	165	1	47.89	ppb	1.64	50	95.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	406946	0.50	488646	83.3	30 - 120	
45	Sc	1	2301666	0.32	2529221	91.0	30 - 120	
72	Ge	1	1383879	1.38	1504199	92.0	30 - 120	
115	In	1	4057331	0.67	4300457	94.3	30 - 120	
165	Ho	1	7538876	0.54	8234026	91.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\162_CCB.D\162_CCB.D#
Date Acquired: Nov 16 2011 07:03 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.001	ppb	951.53	1.00	
51	V	72	1	0.000	ppb	1093.00	1.00	
52	Cr	72	1	0.010	ppb	80.15	1.00	
55	Mn	72	1	0.071	ppb	6.75	1.00	
59	Co	72	1	0.006	ppb	33.26	1.00	
60	Ni	72	1	0.006	ppb	140.80	1.00	
63	Cu	72	1	-0.003	ppb	32.81	1.00	
66	Zn	72	1	0.011	ppb	28.18	1.00	
75	As	72	1	0.014	ppb	17.27	1.00	
78	Se	72	1	0.114	ppb	304.13	1.00	
95	Mo	72	1	0.001	ppb	89.56	1.00	
107	Ag	115	1	0.008	ppb	3.80	1.00	
111	Cd	115	1	0.002	ppb	248.27	1.00	
118	Sn	115	1	0.026	ppb	20.83	1.00	
121	Sb	115	1	0.014	ppb	26.72	1.00	
137	Ba	115	1	0.033	ppb	21.97	1.00	
205	Tl	165	1	0.008	ppb	6.63	1.00	
208	Pb	165	1	0.005	ppb	38.25	1.00	
232	Th	165	1	0.035	ppb	16.95	1.00	
238	U	165	1	0.010	ppb	11.41	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	404609	0.69	488646	82.8	30 - 120	
45	Sc	1	2314151	0.73	2529221	91.5	30 - 120	
72	Ge	1	1379017	0.84	1504199	91.7	30 - 120	
115	In	1	4049857	0.97	4300457	94.2	30 - 120	
165	Ho	1	7474074	0.12	8234026	90.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\163WASH.D\163WASH.D#
Date Acquired: Nov 16 2011 07:05 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.065 ppb	7.29	1.30	
51	V	72	1	4.917 ppb	1.40	6.50	
52	Cr	72	1	2.022 ppb	1.68	2.60	
55	Mn	72	1	1.079 ppb	1.56	1.30	
59	Co	72	1	0.990 ppb	1.41	1.30	
60	Ni	72	1	2.060 ppb	1.75	2.60	
63	Cu	72	1	1.999 ppb	0.44	2.60	
66	Zn	72	1	9.928 ppb	0.90	13.00	
75	As	72	1	5.160 ppb	0.76	6.50	
78	Se	72	1	5.115 ppb	8.01	6.50	
95	Mo	72	1	1.972 ppb	4.19	2.60	
107	Ag	115	1	5.007 ppb	0.75	6.50	
111	Cd	115	1	1.039 ppb	3.42	1.30	
118	Sn	115	1	10.360 ppb	1.01	13.00	
121	Sb	115	1	1.966 ppb	1.58	2.60	
137	Ba	115	1	1.065 ppb	4.27	1.30	
205	Tl	165	1	1.019 ppb	1.59	1.30	
208	Pb	165	1	1.003 ppb	1.50	1.30	
232	Th	165	1	1.998 ppb	1.69	2.60	
238	U	165	1	0.970 ppb	0.31	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	405005	0.95	488646	82.9	30 - 120	
45	Sc	1	2329159	0.63	2529221	92.1	30 - 120	
72	Ge	1	1399780	1.15	1504199	93.1	30 - 120	
115	In	1	4088354	0.58	4300457	95.1	30 - 120	
165	Ho	1	7594732	0.59	8234026	92.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\164WASH.D\164WASH.D#
Date Acquired: Nov 16 2011 07:08 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.002 ppb	530.20	1.30	
51	V	72	1	0.175 ppb	59.43	6.50	
52	Cr	72	1	1.477 ppb	1.13	2.60	
55	Mn	72	1	0.743 ppb	3.34	1.30	
59	Co	72	1	0.069 ppb	7.72	1.30	
60	Ni	72	1	1.258 ppb	4.82	2.60	
63	Cu	72	1	0.522 ppb	3.78	2.60	
66	Zn	72	1	2.726 ppb	1.67	13.00	
75	As	72	1	0.595 ppb	2.67	6.50	
78	Se	72	1	0.411 ppb	19.12	6.50	
95	Mo	72	1	2175.000 ppb	0.99	2.60	
107	Ag	115	1	0.060 ppb	6.73	6.50	
111	Cd	115	1	0.636 ppb	13.43	1.30	
118	Sn	115	1	0.163 ppb	8.12	13.00	
121	Sb	115	1	0.283 ppb	1.88	2.60	
137	Ba	115	1	0.751 ppb	2.41	1.30	
205	Tl	165	1	0.016 ppb	5.37	1.30	
208	Pb	165	1	0.155 ppb	2.36	1.30	
232	Th	165	1	0.031 ppb	7.79	2.60	
238	U	165	1	0.005 ppb	3.97	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	327524	1.65	488646	67.0	30 - 120	
45	Sc	1	1862406	1.25	2529221	73.6	30 - 120	
72	Ge	1	1090645	1.39	1504199	72.5	30 - 120	
115	In	1	3256610	0.44	4300457	75.7	30 - 120	
165	Ho	1	6250764	1.15	8234026	75.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\165WASH.D\165WASH.D#
Date Acquired: Nov 16 2011 07:11 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.004	ppb	0.00	1.30	
51	V	72	1	-0.011	ppb	150.14	6.50	
52	Cr	72	1	0.004	ppb	76.79	2.60	
55	Mn	72	1	0.016	ppb	57.70	1.30	
59	Co	72	1	-0.003	ppb	42.28	1.30	
60	Ni	72	1	-0.005	ppb	134.75	2.60	
63	Cu	72	1	0.005	ppb	55.56	2.60	
66	Zn	72	1	-0.025	ppb	16.91	13.00	
75	As	72	1	-0.001	ppb	893.76	6.50	
78	Se	72	1	0.491	ppb	87.91	6.50	
95	Mo	72	1	0.355	ppb	5.38	2.60	
107	Ag	115	1	0.000	ppb	312.39	6.50	
111	Cd	115	1	-0.005	ppb	72.30	1.30	
118	Sn	115	1	-0.002	ppb	79.84	13.00	
121	Sb	115	1	-0.001	ppb	110.34	2.60	
137	Ba	115	1	0.011	ppb	33.08	1.30	
205	Tl	165	1	0.003	ppb	14.45	1.30	
208	Pb	165	1	-0.003	ppb	19.09	1.30	
232	Th	165	1	0.002	ppb	16.29	2.60	
238	U	165	1	-0.001	ppb	32.15	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	388742	0.11	488646	79.6	30 - 120	
45	Sc	1	2201687	1.64	2529221	87.1	30 - 120	
72	Ge	1	1319194	1.28	1504199	87.7	30 - 120	
115	In	1	3927650	0.53	4300457	91.3	30 - 120	
165	Ho	1	7215311	0.26	8234026	87.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\166WASH.D\166WASH.D#
Date Acquired: Nov 16 2011 07:14 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.013 ppb	235.12	1.30	
51	V	72	1	0.006 ppb	163.44	6.50	
52	Cr	72	1	0.014 ppb	40.74	2.60	
55	Mn	72	1	0.003 ppb	174.74	1.30	
59	Co	72	1	-0.002 ppb	78.22	1.30	
60	Ni	72	1	-0.005 ppb	63.05	2.60	
63	Cu	72	1	-0.002 ppb	320.00	2.60	
66	Zn	72	1	-0.029 ppb	15.60	13.00	
75	As	72	1	0.011 ppb	40.09	6.50	
78	Se	72	1	0.596 ppb	7.63	6.50	
95	Mo	72	1	0.075 ppb	14.69	2.60	
107	Ag	115	1	0.000 ppb	591.40	6.50	
111	Cd	115	1	-0.013 ppb	33.89	1.30	
118	Sn	115	1	-0.005 ppb	33.63	13.00	
121	Sb	115	1	-0.002 ppb	30.55	2.60	
137	Ba	115	1	0.006 ppb	36.73	1.30	
205	Tl	165	1	0.001 ppb	144.07	1.30	
208	Pb	165	1	-0.003 ppb	13.78	1.30	
232	Th	165	1	0.001 ppb	148.82	2.60	
238	U	165	1	-0.001 ppb	17.40	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	391868	0.79	488646	80.2	30 - 120	
45	Sc	1	2268557	1.40	2529221	89.7	30 - 120	
72	Ge	1	1352839	0.81	1504199	89.9	30 - 120	
115	In	1	4053710	0.48	4300457	94.3	30 - 120	
165	Ho	1	7441604	1.51	8234026	90.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\167WASH.D\167WASH.D#
Date Acquired: Nov 16 2011 07:17 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.007 ppb	145.18	1.30	
51 V	72	1	0.001 ppb	1126.10	6.50	
52 Cr	72	1	0.009 ppb	26.07	2.60	
55 Mn	72	1	-0.014 ppb	57.12	1.30	
59 Co	72	1	-0.002 ppb	71.71	1.30	
60 Ni	72	1	0.000 ppb	11686.00	2.60	
63 Cu	72	1	-0.001 ppb	120.89	2.60	
66 Zn	72	1	-0.026 ppb	49.44	13.00	
75 As	72	1	0.013 ppb	82.81	6.50	
78 Se	72	1	0.236 ppb	69.49	6.50	
95 Mo	72	1	0.041 ppb	25.88	2.60	
107 Ag	115	1	-0.001 ppb	73.62	6.50	
111 Cd	115	1	0.001 ppb	266.55	1.30	
118 Sn	115	1	-0.002 ppb	103.21	13.00	
121 Sb	115	1	-0.002 ppb	36.93	2.60	
137 Ba	115	1	0.007 ppb	62.58	1.30	
205 Tl	165	1	-0.002 ppb	34.01	1.30	
208 Pb	165	1	-0.004 ppb	7.46	1.30	
232 Th	165	1	0.002 ppb	41.85	2.60	
238 U	165	1	-0.001 ppb	15.85	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	397214	0.31	488646	81.3	30 - 120	
45 Sc	1	2313094	1.35	2529221	91.5	30 - 120	
72 Ge	1	1369515	1.29	1504199	91.0	30 - 120	
115 In	1	4037778	1.18	4300457	93.9	30 - 120	
165 Ho	1	7386760	1.11	8234026	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\168WASH.D\168WASH.D#
Date Acquired: Nov 16 2011 07:20 pm
Operator: TEL
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 04:23 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.001	ppb	955.06	1.30	
51	V	72	1	-0.003	ppb	492.20	6.50	
52	Cr	72	1	0.011	ppb	71.55	2.60	
55	Mn	72	1	-0.010	ppb	81.54	1.30	
59	Co	72	1	-0.003	ppb	7.18	1.30	
60	Ni	72	1	-0.008	ppb	8.97	2.60	
63	Cu	72	1	-0.001	ppb	316.96	2.60	
66	Zn	72	1	-0.028	ppb	13.71	13.00	
75	As	72	1	0.002	ppb	142.98	6.50	
78	Se	72	1	0.275	ppb	71.17	6.50	
95	Mo	72	1	0.018	ppb	88.69	2.60	
107	Ag	115	1	0.000	ppb	218.71	6.50	
111	Cd	115	1	-0.007	ppb	90.95	1.30	
118	Sn	115	1	-0.004	ppb	73.62	13.00	
121	Sb	115	1	-0.002	ppb	38.48	2.60	
137	Ba	115	1	0.003	ppb	86.44	1.30	
205	Tl	165	1	-0.002	ppb	10.84	1.30	
208	Pb	165	1	-0.003	ppb	15.72	1.30	
232	Th	165	1	0.000	ppb	376.63	2.60	
238	U	165	1	-0.002	ppb	18.18	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	397211	1.29	488646	81.3	30 - 120	
45	Sc	1	2296141	0.80	2529221	90.8	30 - 120	
72	Ge	1	1351566	0.65	1504199	89.9	30 - 120	
115	In	1	4069884	0.35	4300457	94.6	30 - 120	
165	Ho	1	7481681	1.02	8234026	90.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\106CALB.D\106CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\169CALB.D\169CALB.D#
Date Acquired:	Nov 16 2011 07:23 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	Cal Blank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 04:23 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	13	114.86
51	V	72	1	-65	490.68
52	Cr	72	1	1617	11.14
55	Mn	72	1	2740	4.51
59	Co	72	1	217	31.27
60	Ni	72	1	123	19.72
63	Cu	72	1	870	2.34
66	Zn	72	1	313	11.75
75	As	72	1	102	7.48
78	Se	72	1	373	4.26
95	Mo	72	1	337	10.48
107	Ag	115	1	87	26.47
111	Cd	115	1	40	20.82
118	Sn	115	1	350	7.22
121	Sb	115	1	80	21.46
137	Ba	115	1	182	2.73
205	Tl	165	1	317	2.30
208	Pb	165	1	967	2.33
232	Th	165	1	307	9.10
238	U	165	1	392	5.36

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	398273	0.42
45	Sc	1	2309711	0.73
72	Ge	1	1385764	0.72
115	In	1	4068761	0.80
165	Ho	1	7411338	0.50

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#
Date Acquired:	Nov 16 2011 07:26 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1131044
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:24 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
51	V	72	1	-12	2845.70
52	Cr	72	1	1593	19.58
55	Mn	72	1	2647	5.20
59	Co	72	1	77	30.42
60	Ni	72	1	170	14.94
63	Cu	72	1	853	14.13
66	Zn	72	1	291	2.16
75	As	72	1	102	9.70
78	Se	72	1	470	12.43
95	Mo	72	1	170	25.18
107	Ag	115	1	27	44.12
111	Cd	115	1	27	9.67
118	Sn	115	1	273	4.56
121	Sb	115	1	29	23.60
137	Ba	115	1	180	18.53
205	Tl	165	1	147	4.32
208	Pb	165	1	763	6.48
232	Th	165	1	190	11.21
238	U	165	1	118	23.35

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	398260	0.11
45	Sc	1	2300683	0.80
72	Ge	1	1383338	0.71
115	In	1	4023995	0.73
165	Ho	1	7427449	0.69

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\171ICAL.D\171ICAL.D#
Date Acquired:	Nov 16 2011 07:29 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	IC-1131031
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:27 pm
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	59968	2.67
51	V	72	1	1949427	0.35
52	Cr	72	1	2036525	1.74
55	Mn	72	1	1904327	1.50
59	Co	72	1	2929677	1.48
60	Ni	72	1	692710	1.50
63	Cu	72	1	1716538	1.07
66	Zn	72	1	279967	1.45
75	As	72	1	207187	1.16
78	Se	72	1	32019	2.40
95	Mo	72	1	818246	0.98
107	Ag	115	1	2560934	0.72
111	Cd	115	1	411249	1.17
118	Sn	115	1	1123679	2.08
121	Sb	115	1	1184281	0.78
137	Ba	115	1	509766	0.56
205	Tl	165	1	4228235	1.44
208	Pb	165	1	5793373	0.56
232	Th	165	1	5642934	2.23
238	U	165	1	6012322	1.94

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	391440	2.03	398260	98.3	30 - 120	
45	Sc	1	2235079	0.58	2300683	97.1	30 - 120	
72	Ge	1	1342017	1.47	1383338	97.0	30 - 120	
115	In	1	3977531	0.81	4023995	98.8	30 - 120	
165	Ho	1	7216553	0.98	7427449	97.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\172_CCV.D\172_CCV.D#
Date Acquired: Nov 16 2011 07:32 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.59	ppb	0.47	50	99.2	90 - 110	
51	V	72	1	49.78	ppb	2.42	50	99.6	90 - 110	
52	Cr	72	1	50.68	ppb	1.28	50	101.4	90 - 110	
55	Mn	72	1	50.56	ppb	0.99	50	101.1	90 - 110	
59	Co	72	1	50.75	ppb	1.26	50	101.5	90 - 110	
60	Ni	72	1	49.60	ppb	1.49	50	99.2	90 - 110	
63	Cu	72	1	48.62	ppb	0.88	50	97.2	90 - 110	
66	Zn	72	1	50.08	ppb	1.25	50	100.2	90 - 110	
75	As	72	1	49.91	ppb	1.33	50	99.8	90 - 110	
78	Se	72	1	48.93	ppb	3.36	50	97.9	90 - 110	
95	Mo	72	1	49.65	ppb	0.22	50	99.3	90 - 110	
107	Ag	115	1	50.16	ppb	1.59	50	100.3	90 - 110	
111	Cd	115	1	49.97	ppb	1.74	50	99.9	90 - 110	
118	Sn	115	1	48.74	ppb	1.67	50	97.5	90 - 110	
121	Sb	115	1	47.83	ppb	2.09	50	95.7	90 - 110	
137	Ba	115	1	50.48	ppb	2.00	50	101.0	90 - 110	
205	Tl	165	1	51.22	ppb	0.80	50	102.4	90 - 110	
208	Pb	165	1	49.51	ppb	0.97	50	99.0	90 - 110	
232	Th	165	1	51.26	ppb	1.42	50	102.5	90 - 110	
238	U	165	1	50.87	ppb	1.40	50	101.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	390990	0.47	398260	98.2	30 - 120	
45	Sc	1	2221780	0.32	2300683	96.6	30 - 120	
72	Ge	1	1328843	0.62	1383338	96.1	30 - 120	
115	In	1	3943639	1.39	4023995	98.0	30 - 120	
165	Ho	1	7301730	0.95	7427449	98.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\173_CCB.D\173_CCB.D#
Date Acquired: Nov 16 2011 07:34 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.011	ppb	173.10	1.00	
51	V	72	1	0.011	ppb	87.57	1.00	
52	Cr	72	1	0.009	ppb	69.56	1.00	
55	Mn	72	1	0.004	ppb	29.95	1.00	
59	Co	72	1	0.010	ppb	18.03	1.00	
60	Ni	72	1	0.015	ppb	13.09	1.00	
63	Cu	72	1	-0.001	ppb	1436.80	1.00	
66	Zn	72	1	0.021	ppb	69.09	1.00	
75	As	72	1	0.012	ppb	86.20	1.00	
78	Se	72	1	0.027	ppb	434.80	1.00	
95	Mo	72	1	0.020	ppb	19.62	1.00	
107	Ag	115	1	0.011	ppb	7.54	1.00	
111	Cd	115	1	0.011	ppb	63.18	1.00	
118	Sn	115	1	0.047	ppb	23.03	1.00	
121	Sb	115	1	0.021	ppb	4.56	1.00	
137	Ba	115	1	0.003	ppb	153.52	1.00	
205	Tl	165	1	0.025	ppb	5.54	1.00	
208	Pb	165	1	0.009	ppb	15.92	1.00	
232	Th	165	1	0.045	ppb	17.62	1.00	
238	U	165	1	0.016	ppb	2.02	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	387837	1.04	398260	97.4	30 - 120	
45	Sc	1	2225787	1.30	2300683	96.7	30 - 120	
72	Ge	1	1318347	1.09	1383338	95.3	30 - 120	
115	In	1	3904533	0.99	4023995	97.0	30 - 120	
165	Ho	1	7283282	0.40	7427449	98.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\174WASH.D\174WASH.D#
Date Acquired:	Nov 16 2011 07:37 pm
Operator:	TEL
Sample Name:	LLICV-1131045
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.945 ppb	14.91	1.30	
51	V	72	1	5.010 ppb	2.09	6.50	
52	Cr	72	1	2.119 ppb	1.99	2.60	
55	Mn	72	1	1.055 ppb	3.43	1.30	
59	Co	72	1	1.002 ppb	2.09	1.30	
60	Ni	72	1	2.085 ppb	4.00	2.60	
63	Cu	72	1	2.006 ppb	2.41	2.60	
66	Zn	72	1	10.260 ppb	0.63	13.00	
75	As	72	1	5.196 ppb	1.80	6.50	
78	Se	72	1	5.316 ppb	19.68	6.50	
95	Mo	72	1	2.074 ppb	4.00	2.60	
107	Ag	115	1	5.062 ppb	2.15	6.50	
111	Cd	115	1	1.064 ppb	4.96	1.30	
118	Sn	115	1	10.350 ppb	0.70	13.00	
121	Sb	115	1	1.999 ppb	0.62	2.60	
137	Ba	115	1	1.045 ppb	1.43	1.30	
205	Tl	165	1	1.052 ppb	1.91	1.30	
208	Pb	165	1	1.020 ppb	1.44	1.30	
232	Th	165	1	2.068 ppb	3.81	2.60	
238	U	165	1	1.027 ppb	2.15	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	391591	1.31	398260	98.3	30 - 120	
45	Sc	1	2230970	1.01	2300683	97.0	30 - 120	
72	Ge	1	1333054	1.19	1383338	96.4	30 - 120	
115	In	1	3942464	1.35	4023995	98.0	30 - 120	
165	Ho	1	7236519	1.06	7427449	97.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\175_BLK.D\175_BLK.D#
Date Acquired: Nov 16 2011 07:40 pm
Operator: TEL
Sample Name: mb 280-96043/1-a
Misc Info: BLANK 96043 Soil DoD4/6020A
Vial Number: 3501
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.011 ppb	86.63	2.00	
51	V	72	1	0.011 ppb	56.43	2.00	
52	Cr	72	1	0.044 ppb	10.83	2.00	
55	Mn	72	1	0.071 ppb	10.45	2.00	
59	Co	72	1	0.003 ppb	31.06	2.00	
60	Ni	72	1	0.058 ppb	9.36	2.00	
63	Cu	72	1	0.168 ppb	4.56	2.00	
66	Zn	72	1	0.498 ppb	1.88	2.00	
75	As	72	1	-0.001 ppb	441.59	2.00	
78	Se	72	1	-0.100 ppb	113.20	2.00	
95	Mo	72	1	0.001 ppb	344.83	2.00	
107	Ag	115	1	0.007 ppb	21.94	2.00	
111	Cd	115	1	0.002 ppb	255.90	2.00	
118	Sn	115	1	0.067 ppb	18.03	2.00	
121	Sb	115	1	0.005 ppb	41.15	2.00	
137	Ba	115	1	0.068 ppb	17.52	2.00	
205	Tl	165	1	0.008 ppb	12.40	2.00	
208	Pb	165	1	0.025 ppb	5.42	2.00	
232	Th	165	1	0.019 ppb	25.58	2.00	
238	U	165	1	0.007 ppb	17.10	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	389270	0.75	398260	97.7	30 - 120	
45	Sc	1	2217170	0.74	2300683	96.4	30 - 120	
72	Ge	1	1327306	0.72	1383338	95.9	30 - 120	
115	In	1	3941425	0.86	4023995	97.9	30 - 120	
165	Ho	1	7394321	1.19	7427449	99.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\176_LCS.D\176_LCS.D#
Date Acquired: Nov 16 2011 07:43 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: lcs 280-96043/2-a
Misc Info: LCS
Vial Number: 3502
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	38.23	4.43	40	95.6	80 - 120	
51 V	72	1	37.12	0.78	40	92.8	80 - 120	
52 Cr	72	1	37.79	0.47	40	94.5	80 - 120	
55 Mn	72	1	37.67	0.59	40	94.2	80 - 120	
59 Co	72	1	38.39	1.67	40	96.0	80 - 120	
60 Ni	72	1	37.94	0.90	40	94.9	80 - 120	
63 Cu	72	1	37.73	0.68	40	94.3	80 - 120	
66 Zn	72	1	37.31	0.64	40	93.3	80 - 120	
75 As	72	1	37.63	0.66	40	94.1	80 - 120	
78 Se	72	1	38.03	3.89	40	95.1	80 - 120	
95 Mo	72	1	37.68	0.26	40	94.2	80 - 120	
107 Ag	115	1	37.12	0.62	40	92.8	80 - 120	
111 Cd	115	1	37.38	1.07	40	93.5	80 - 120	
118 Sn	115	1	36.49	1.40	40	91.2	80 - 120	
121 Sb	115	1	35.36	0.47	40	88.4	80 - 120	
137 Ba	115	1	38.53	0.53	40	96.3	80 - 120	
205 Tl	165	1	38.81	1.44	40	97.0	80 - 120	
208 Pb	165	1	37.85	1.37	40	94.6	80 - 120	
232 Th	165	1	37.97	1.55	40	94.9	80 - 120	
238 U	165	1	39.79	0.46	40	99.5	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	389977	0.03	398260	97.9	30 - 120	
45 Sc	1	2201882	0.41	2300683	95.7	30 - 120	
72 Ge	1	1318045	0.79	1383338	95.3	30 - 120	
115 In	1	3944902	0.39	4023995	98.0	30 - 120	
165 Ho	1	7241193	1.08	7427449	97.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\177AREF.D\177AREF.D#
Date Acquired:	Nov 16 2011 07:46 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-b-9-a
Misc Info:	
Vial Number:	3503
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.20	2.20	ppb	9.76	3600	
51	V	72	1	175.20	175.20	ppb	0.67	3600	
52	Cr	72	1	32.10	32.10	ppb	0.52	3600	
55	Mn	72	1	105.30	105.30	ppb	0.82	18000	
59	Co	72	1	4.61	4.61	ppb	0.57	3600	
60	Ni	72	1	7.25	7.25	ppb	0.79	3600	
63	Cu	72	1	2.72	2.72	ppb	2.46	3600	
66	Zn	72	1	40.71	40.71	ppb	0.11	3600	
75	As	72	1	44.47	44.47	ppb	0.56	3600	
78	Se	72	1	0.52	0.52	ppb	63.38	3600	
95	Mo	72	1	1.62	1.62	ppb	1.05	3600	
107	Ag	115	1	0.02	0.02	ppb	9.62	3600	
111	Cd	115	1	0.18	0.18	ppb	13.19	3600	
118	Sn	115	1	0.18	0.18	ppb	13.28	3600	
121	Sb	115	1	0.13	0.13	ppb	5.04	3600	
137	Ba	115	1	3.89	3.89	ppb	0.88	3600	
205	Tl	165	1	0.06	0.06	ppb	17.14	3600	
208	Pb	165	1	28.79	28.79	ppb	0.57	3600	
232	Th	165	1	3.03	3.03	ppb	1.72	1000	
238	U	165	1	2.16	2.16	ppb	0.46	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	363715	1.77	398260	91.3	30 - 120	
45	Sc	1	2134660	0.83	2300683	92.8	30 - 120	
72	Ge	1	1302973	0.35	1383338	94.2	30 - 120	
115	In	1	3768194	0.48	4023995	93.6	30 - 120	
165	Ho	1	7148659	0.39	7427449	96.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\178SDIL.D\178SDIL.D#
Date Acquired: Nov 16 2011 07:49 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-b-9-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3504
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\177AREF.D\177AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)			Flag
9	Be	6	1	0.43	ppb	1.85	0.44	98.3	90	-	110	
51	V	72	1	36.53	ppb	0.49	35.04	104.3	90	-	110	
52	Cr	72	1	6.67	ppb	0.58	6.42	103.8	90	-	110	
55	Mn	72	1	21.53	ppb	0.09	21.06	102.2	90	-	110	
59	Co	72	1	0.97	ppb	1.45	0.92	105.6	90	-	110	
60	Ni	72	1	1.57	ppb	4.21	1.45	108.3	90	-	110	
63	Cu	72	1	0.61	ppb	0.90	0.54	111.7	90	-	110	
66	Zn	72	1	8.80	ppb	0.77	8.14	108.0	90	-	110	
75	As	72	1	9.58	ppb	0.91	8.89	107.7	90	-	110	
78	Se	72	1	0.17	ppb	208.81	0.10	164.9	90	-	110	
95	Mo	72	1	0.34	ppb	4.06	0.32	105.0	90	-	110	
107	Ag	115	1	0.01	ppb	13.54	0.00	112.2	90	-	110	
111	Cd	115	1	0.04	ppb	14.29	0.04	121.1	90	-	110	
118	Sn	115	1	0.04	ppb	10.85	0.04	105.8	90	-	110	
121	Sb	115	1	0.03	ppb	3.03	0.03	97.2	90	-	110	
137	Ba	115	1	0.78	ppb	2.60	0.78	100.5	90	-	110	
205	Tl	165	1	0.01	ppb	18.52	0.01	67.1	90	-	110	
208	Pb	165	1	5.95	ppb	0.83	5.76	103.2	90	-	110	
232	Th	165	1	0.62	ppb	1.63	0.61	102.3	90	-	110	
238	U	165	1	0.44	ppb	1.13	0.43	102.5	90	-	110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	372951	0.88	398260	93.6	30	-	120	
45	Sc	1	2190578	0.58	2300683	95.2	30	-	120	
72	Ge	1	1331675	0.32	1383338	96.3	30	-	120	
115	In	1	3892664	1.63	4023995	96.7	30	-	120	
165	Ho	1	7253601	0.46	7427449	97.7	30	-	120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\179PDS.D\179PDS.D#
Date Acquired:	Nov 16 2011 07:52 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-b-9-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3505
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	203.90	2.19	ppb	0.62	200	100.8	75 - 125	
51 V	72	1	356.40	175.20	ppb	0.05	200	95.0	75 - 125	
52 Cr	72	1	224.50	32.10	ppb	0.21	200	96.7	75 - 125	
55 Mn	72	1	288.80	105.30	ppb	0.44	200	94.6	75 - 125	
59 Co	72	1	193.00	4.61	ppb	0.45	200	94.3	75 - 125	
60 Ni	72	1	204.40	7.25	ppb	0.73	200	98.6	75 - 125	
63 Cu	72	1	190.20	2.72	ppb	0.51	200	93.8	75 - 125	
66 Zn	72	1	226.70	40.71	ppb	0.40	200	94.2	75 - 125	
75 As	72	1	236.60	44.47	ppb	0.26	200	96.8	75 - 125	
78 Se	72	1	189.60	0.52	ppb	0.55	200	94.6	75 - 125	
95 Mo	72	1	206.30	1.62	ppb	0.15	200	102.3	75 - 125	
107 Ag	115	1	50.02	0.02	ppb	0.65	50	100.0	75 - 125	
111 Cd	115	1	201.90	0.18	ppb	0.66	200	100.9	75 - 125	
118 Sn	115	1	203.80	0.18	ppb	0.74	200	101.8	75 - 125	
121 Sb	115	1	198.50	0.13	ppb	0.40	200	99.2	75 - 125	
137 Ba	115	1	213.60	3.89	ppb	0.64	200	104.8	75 - 125	
205 Tl	165	1	196.10	0.06	ppb	1.51	200	98.0	75 - 125	
208 Pb	165	1	220.90	28.79	ppb	1.15	200	96.6	75 - 125	
232 Th	165	1	2.96	3.03	ppb	0.56	200	1.5	75 - 125	
238 U	165	1	200.40	2.16	ppb	0.34	200	99.1	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	348889	0.25	398260	87.6	30 - 120	
45 Sc	1	2081808	0.67	2300683	90.5	30 - 120	
72 Ge	1	1270369	0.29	1383338	91.8	30 - 120	
115 In	1	3691038	0.30	4023995	91.7	30 - 120	
165 Ho	1	7071995	0.83	7427449	95.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\180_MS.D\180_MS.D#
Date Acquired:	Nov 16 2011 07:55 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-b-9-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	3506
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	41.25	2.19	ppb	1.73	40	97.8	50 - 150	
51	V	72	1	203.80	175.20	ppb	0.23	40	94.7	50 - 150	
52	Cr	72	1	69.18	32.10	ppb	0.72	40	96.0	50 - 150	
55	Mn	72	1	143.50	105.30	ppb	1.61	40	98.8	50 - 150	
59	Co	72	1	42.73	4.61	ppb	1.69	40	95.8	50 - 150	
60	Ni	72	1	43.54	7.25	ppb	0.65	40	92.1	50 - 150	
63	Cu	72	1	38.47	2.72	ppb	0.13	40	90.0	50 - 150	
66	Zn	72	1	74.70	40.71	ppb	0.50	40	92.6	50 - 150	
75	As	72	1	78.27	44.47	ppb	0.67	40	92.7	50 - 150	
78	Se	72	1	28.55	0.52	ppb	2.77	40	70.5	50 - 150	
95	Mo	72	1	35.05	1.62	ppb	0.56	40	84.2	50 - 150	
107	Ag	115	1	29.71	0.02	ppb	1.15	40	74.2	50 - 150	
111	Cd	115	1	39.23	0.18	ppb	0.66	40	97.6	50 - 150	
118	Sn	115	1	32.56	0.18	ppb	0.53	40	81.0	50 - 150	
121	Sb	115	1	22.38	0.13	ppb	0.77	40	55.8	50 - 150	
137	Ba	115	1	45.19	3.89	ppb	0.69	40	103.0	50 - 150	
205	Tl	165	1	39.54	0.06	ppb	0.92	40	98.7	50 - 150	
208	Pb	165	1	65.30	28.79	ppb	0.28	40	94.9	50 - 150	
232	Th	165	1	45.09	3.03	ppb	0.20	40	104.8	50 - 150	
238	U	165	1	41.79	2.16	ppb	0.81	40	99.1	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	351487	0.81	398260	88.3	30 - 120	
45	Sc	1	2102693	0.45	2300683	91.4	30 - 120	
72	Ge	1	1281316	0.17	1383338	92.6	30 - 120	
115	In	1	3705914	0.88	4023995	92.1	30 - 120	
165	Ho	1	7025428	0.45	7427449	94.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\181_CCV.D\181_CCV.D#
Date Acquired:	Nov 16 2011 07:58 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.36	ppb	2.16	50	102.7	90 - 110	
51	V	72	1	49.73	ppb	0.12	50	99.5	90 - 110	
52	Cr	72	1	49.83	ppb	0.36	50	99.7	90 - 110	
55	Mn	72	1	49.00	ppb	2.98	50	98.0	90 - 110	
59	Co	72	1	50.14	ppb	1.95	50	100.3	90 - 110	
60	Ni	72	1	49.32	ppb	1.17	50	98.6	90 - 110	
63	Cu	72	1	48.06	ppb	1.15	50	96.1	90 - 110	
66	Zn	72	1	48.93	ppb	1.31	50	97.9	90 - 110	
75	As	72	1	49.49	ppb	0.73	50	99.0	90 - 110	
78	Se	72	1	50.55	ppb	1.54	50	101.1	90 - 110	
95	Mo	72	1	49.33	ppb	1.04	50	98.7	90 - 110	
107	Ag	115	1	50.71	ppb	1.36	50	101.4	90 - 110	
111	Cd	115	1	49.97	ppb	0.50	50	99.9	90 - 110	
118	Sn	115	1	48.45	ppb	0.85	50	96.9	90 - 110	
121	Sb	115	1	47.87	ppb	0.56	50	95.7	90 - 110	
137	Ba	115	1	50.25	ppb	0.22	50	100.5	90 - 110	
205	Tl	165	1	51.09	ppb	0.72	50	102.2	90 - 110	
208	Pb	165	1	49.47	ppb	0.20	50	98.9	90 - 110	
232	Th	165	1	51.02	ppb	0.99	50	102.0	90 - 110	
238	U	165	1	50.82	ppb	0.51	50	101.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	362828	0.54	398260	91.1	30 - 120	
45	Sc	1	2152195	1.03	2300683	93.5	30 - 120	
72	Ge	1	1327716	0.99	1383338	96.0	30 - 120	
115	In	1	3901912	0.43	4023995	97.0	30 - 120	
165	Ho	1	7260949	0.39	7427449	97.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\182_CCB.D\182_CCB.D#
Date Acquired:	Nov 16 2011 08:00 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.024	ppb	42.62	1.00	
51	V	72	1	0.023	ppb	31.10	1.00	
52	Cr	72	1	0.019	ppb	54.45	1.00	
55	Mn	72	1	-0.007	ppb	144.66	1.00	
59	Co	72	1	0.013	ppb	17.04	1.00	
60	Ni	72	1	0.009	ppb	120.55	1.00	
63	Cu	72	1	0.006	ppb	153.08	1.00	
66	Zn	72	1	0.017	ppb	11.49	1.00	
75	As	72	1	0.019	ppb	24.73	1.00	
78	Se	72	1	-0.055	ppb	112.52	1.00	
95	Mo	72	1	0.016	ppb	28.76	1.00	
107	Ag	115	1	0.012	ppb	16.54	1.00	
111	Cd	115	1	0.010	ppb	64.08	1.00	
118	Sn	115	1	0.040	ppb	11.25	1.00	
121	Sb	115	1	0.022	ppb	14.78	1.00	
137	Ba	115	1	-0.001	ppb	222.54	1.00	
205	Tl	165	1	0.026	ppb	9.66	1.00	
208	Pb	165	1	0.014	ppb	11.67	1.00	
232	Th	165	1	0.028	ppb	4.90	1.00	
238	U	165	1	0.018	ppb	4.34	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	366577	0.82	398260	92.0	30 - 120	
45	Sc	1	2219094	0.52	2300683	96.5	30 - 120	
72	Ge	1	1336152	1.56	1383338	96.6	30 - 120	
115	In	1	3953792	0.88	4023995	98.3	30 - 120	
165	Ho	1	7255008	0.48	7427449	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\183WASH.D\183WASH.D#
Date Acquired:	Nov 16 2011 08:03 pm
Operator:	TEL
Sample Name:	LLICV-1131923
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.172 ppb	15.59	1.30	
51	V	72	1	5.090 ppb	2.48	6.50	
52	Cr	72	1	2.110 ppb	1.57	2.60	
55	Mn	72	1	1.047 ppb	1.79	1.30	
59	Co	72	1	1.025 ppb	0.57	1.30	
60	Ni	72	1	2.064 ppb	4.04	2.60	
63	Cu	72	1	2.029 ppb	1.12	2.60	
66	Zn	72	1	10.440 ppb	1.33	13.00	
75	As	72	1	5.280 ppb	1.10	6.50	
78	Se	72	1	5.840 ppb	11.53	6.50	
95	Mo	72	1	2.139 ppb	1.54	2.60	
107	Ag	115	1	5.129 ppb	1.87	6.50	
111	Cd	115	1	1.057 ppb	3.20	1.30	
118	Sn	115	1	10.280 ppb	1.25	13.00	
121	Sb	115	1	2.006 ppb	0.75	2.60	
137	Ba	115	1	1.051 ppb	3.43	1.30	
205	Tl	165	1	1.046 ppb	0.78	1.30	
208	Pb	165	1	1.011 ppb	0.59	1.30	
232	Th	165	1	2.059 ppb	2.28	2.60	
238	U	165	1	1.014 ppb	1.22	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	370803	0.83	398260	93.1	30 - 120	
45	Sc	1	2249044	0.79	2300683	97.8	30 - 120	
72	Ge	1	1332993	1.02	1383338	96.4	30 - 120	
115	In	1	3973443	0.27	4023995	98.7	30 - 120	
165	Ho	1	7371747	0.39	7427449	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\184_MSD.D\184_MSD.D#
Date Acquired: Nov 16 2011 08:06 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-b-9-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3507
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\180_MS.D\180_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	40.40	ppb	1.18	41.25	2.08	20	
51	V	72	1	193.80	ppb	1.46	203.80	5.03	20	
52	Cr	72	1	69.21	ppb	1.20	69.18	0.04	20	
55	Mn	72	1	130.30	ppb	1.81	143.50	9.64	20	
59	Co	72	1	41.67	ppb	2.61	42.73	2.51	20	
60	Ni	72	1	43.71	ppb	1.79	43.54	0.39	20	
63	Cu	72	1	37.97	ppb	0.85	38.47	1.31	20	
66	Zn	72	1	73.56	ppb	1.29	74.70	1.54	20	
75	As	72	1	68.04	ppb	1.10	78.27	13.98	20	
78	Se	72	1	23.65	ppb	4.83	28.55	18.77	20	
95	Mo	72	1	32.46	ppb	0.84	35.05	7.67	20	
107	Ag	115	1	28.08	ppb	1.04	29.71	5.64	20	
111	Cd	115	1	37.87	ppb	0.47	39.23	3.53	20	
118	Sn	115	1	30.59	ppb	0.75	32.56	6.24	20	
121	Sb	115	1	20.70	ppb	0.47	22.38	7.80	20	
137	Ba	115	1	42.45	ppb	0.34	45.19	6.25	20	
205	Tl	165	1	38.47	ppb	1.19	39.54	2.74	20	
208	Pb	165	1	63.85	ppb	0.72	65.30	2.25	20	
232	Th	165	1	43.07	ppb	0.89	45.09	4.58	20	
238	U	165	1	40.94	ppb	0.56	41.79	2.05	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	355985	1.31	398260	89.4	30 - 120	
45	Sc	1	2135360	0.35	2300683	92.8	30 - 120	
72	Ge	1	1299129	1.17	1383338	93.9	30 - 120	
115	In	1	3785591	0.49	4023995	94.1	30 - 120	
165	Ho	1	7176580	0.62	7427449	96.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\185SMPL.D\185SMPL.D#
Date Acquired:	Nov 16 2011 08:09 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-a-10-a
Misc Info:	
Vial Number:	3508
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.07	1.07	ppb	5.53	3600	
51	V	72	1	98.63	98.63	ppb	1.08	3600	
52	Cr	72	1	16.37	16.37	ppb	0.75	3600	
55	Mn	72	1	64.95	64.95	ppb	0.81	18000	
59	Co	72	1	2.78	2.78	ppb	2.25	3600	
60	Ni	72	1	4.14	4.14	ppb	3.71	3600	
63	Cu	72	1	1.96	1.96	ppb	3.63	3600	
66	Zn	72	1	21.79	21.79	ppb	0.80	3600	
75	As	72	1	26.75	26.75	ppb	0.70	3600	
78	Se	72	1	0.45	0.45	ppb	24.81	3600	
95	Mo	72	1	0.98	0.98	ppb	2.08	3600	
107	Ag	115	1	0.02	0.02	ppb	19.85	3600	
111	Cd	115	1	0.11	0.11	ppb	19.75	3600	
118	Sn	115	1	0.13	0.13	ppb	5.31	3600	
121	Sb	115	1	0.09	0.09	ppb	9.54	3600	
137	Ba	115	1	3.10	3.10	ppb	0.49	3600	
205	Tl	165	1	0.03	0.03	ppb	10.35	3600	
208	Pb	165	1	15.70	15.70	ppb	0.27	3600	
232	Th	165	1	1.81	1.81	ppb	0.86	1000	
238	U	165	1	1.13	1.13	ppb	1.01	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	360289	0.33	398260	90.5	30 - 120	
45	Sc	1	2144164	1.86	2300683	93.2	30 - 120	
72	Ge	1	1305552	0.11	1383338	94.4	30 - 120	
115	In	1	3851361	1.25	4023995	95.7	30 - 120	
165	Ho	1	7149455	0.51	7427449	96.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\186SMPL.D\186SMPL.D#
Date Acquired:	Nov 16 2011 08:12 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22438-b-15-a
Misc Info:	
Vial Number:	3509
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.07	0.07	ppb	50.57	3600	
51	V	72	1	4.56	4.56	ppb	2.56	3600	
52	Cr	72	1	1.57	1.57	ppb	3.04	3600	
55	Mn	72	1	20.00	20.00	ppb	1.98	18000	
59	Co	72	1	0.41	0.41	ppb	2.08	3600	
60	Ni	72	1	1.25	1.25	ppb	4.38	3600	
63	Cu	72	1	9.70	9.70	ppb	1.45	3600	
66	Zn	72	1	5.27	5.27	ppb	1.48	3600	
75	As	72	1	1.58	1.58	ppb	2.44	3600	
78	Se	72	1	-0.07	-0.07	ppb	583.70	3600	
95	Mo	72	1	0.27	0.27	ppb	3.37	3600	
107	Ag	115	1	0.02	0.02	ppb	0.86	3600	
111	Cd	115	1	0.05	0.05	ppb	9.48	3600	
118	Sn	115	1	0.31	0.31	ppb	11.22	3600	
121	Sb	115	1	0.02	0.02	ppb	11.00	3600	
137	Ba	115	1	1.74	1.74	ppb	2.25	3600	
205	Tl	165	1	0.03	0.03	ppb	7.97	3600	
208	Pb	165	1	1.62	1.62	ppb	0.23	3600	
232	Th	165	1	1.09	1.09	ppb	3.21	1000	
238	U	165	1	0.23	0.23	ppb	0.80	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	364199	0.69	398260	91.4	30 - 120	
45	Sc	1	2164335	0.86	2300683	94.1	30 - 120	
72	Ge	1	1305344	0.81	1383338	94.4	30 - 120	
115	In	1	3901572	0.60	4023995	97.0	30 - 120	
165	Ho	1	7260041	0.43	7427449	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\187SMPL.D\187SMPL.D#
Date Acquired: Nov 16 2011 08:15 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-a-16-a
Misc Info:
Vial Number: 3510
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	49.32	3600	
51	V	72	1	3.39	3.39	ppb	1.76	3600	
52	Cr	72	1	1.72	1.72	ppb	0.91	3600	
55	Mn	72	1	8.81	8.81	ppb	1.48	18000	
59	Co	72	1	0.29	0.29	ppb	1.69	3600	
60	Ni	72	1	1.14	1.14	ppb	3.38	3600	
63	Cu	72	1	0.77	0.77	ppb	1.16	3600	
66	Zn	72	1	3.38	3.38	ppb	0.63	3600	
75	As	72	1	1.40	1.40	ppb	5.02	3600	
78	Se	72	1	0.09	0.09	ppb	264.61	3600	
95	Mo	72	1	0.30	0.30	ppb	7.40	3600	
107	Ag	115	1	0.01	0.01	ppb	12.97	3600	
111	Cd	115	1	0.05	0.05	ppb	14.62	3600	
118	Sn	115	1	0.10	0.10	ppb	11.48	3600	
121	Sb	115	1	0.02	0.02	ppb	11.26	3600	
137	Ba	115	1	2.13	2.13	ppb	2.79	3600	
205	Tl	165	1	0.02	0.02	ppb	6.14	3600	
208	Pb	165	1	1.71	1.71	ppb	1.28	3600	
232	Th	165	1	1.27	1.27	ppb	0.74	1000	
238	U	165	1	0.23	0.23	ppb	2.04	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	368202	0.53	398260	92.5	30 - 120	
45	Sc	1	2213829	0.47	2300683	96.2	30 - 120	
72	Ge	1	1331251	1.13	1383338	96.2	30 - 120	
115	In	1	3917335	0.78	4023995	97.3	30 - 120	
165	Ho	1	7253069	0.98	7427449	97.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\188SMPL.D\188SMPL.D#
Date Acquired: Nov 16 2011 08:18 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-a-17-a
Misc Info:
Vial Number: 3511
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.15	0.15	ppb	17.95	3600	
51	V	72	1	4.93	4.93	ppb	1.39	3600	
52	Cr	72	1	1.75	1.75	ppb	2.74	3600	
55	Mn	72	1	14.24	14.24	ppb	1.76	18000	
59	Co	72	1	0.54	0.54	ppb	5.12	3600	
60	Ni	72	1	1.44	1.44	ppb	4.79	3600	
63	Cu	72	1	1.25	1.25	ppb	1.28	3600	
66	Zn	72	1	6.62	6.62	ppb	1.34	3600	
75	As	72	1	1.76	1.76	ppb	2.28	3600	
78	Se	72	1	0.25	0.25	ppb	61.30	3600	
95	Mo	72	1	0.42	0.42	ppb	3.26	3600	
107	Ag	115	1	0.01	0.01	ppb	8.96	3600	
111	Cd	115	1	0.05	0.05	ppb	31.15	3600	
118	Sn	115	1	0.08	0.08	ppb	3.26	3600	
121	Sb	115	1	0.02	0.02	ppb	8.47	3600	
137	Ba	115	1	2.38	2.38	ppb	0.97	3600	
205	Tl	165	1	0.04	0.04	ppb	4.83	3600	
208	Pb	165	1	2.16	2.16	ppb	1.37	3600	
232	Th	165	1	1.34	1.34	ppb	1.71	1000	
238	U	165	1	0.36	0.36	ppb	1.31	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	360799	0.44	398260	90.6	30 - 120	
45	Sc	1	2168849	2.06	2300683	94.3	30 - 120	
72	Ge	1	1303052	1.70	1383338	94.2	30 - 120	
115	In	1	3848109	1.58	4023995	95.6	30 - 120	
165	Ho	1	7201558	1.81	7427449	97.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\189SMPL.D\189SMPL.D#
Date Acquired: Nov 16 2011 08:21 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22438-b-18-a
Misc Info:
Vial Number: 3512
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.12	0.12	ppb	50.67	3600	
51	V	72	1	8.09	8.09	ppb	2.43	3600	
52	Cr	72	1	4.62	4.62	ppb	0.97	3600	
55	Mn	72	1	22.07	22.07	ppb	2.50	18000	
59	Co	72	1	0.82	0.82	ppb	2.46	3600	
60	Ni	72	1	2.75	2.75	ppb	3.91	3600	
63	Cu	72	1	2.27	2.27	ppb	1.17	3600	
66	Zn	72	1	7.76	7.76	ppb	3.56	3600	
75	As	72	1	2.53	2.53	ppb	2.59	3600	
78	Se	72	1	0.23	0.23	ppb	109.07	3600	
95	Mo	72	1	0.64	0.64	ppb	2.81	3600	
107	Ag	115	1	0.01	0.01	ppb	19.75	3600	
111	Cd	115	1	0.13	0.13	ppb	2.35	3600	
118	Sn	115	1	0.13	0.13	ppb	13.49	3600	
121	Sb	115	1	0.02	0.02	ppb	8.96	3600	
137	Ba	115	1	4.34	4.34	ppb	2.94	3600	
205	Tl	165	1	0.05	0.05	ppb	2.33	3600	
208	Pb	165	1	4.02	4.02	ppb	2.15	3600	
232	Th	165	1	1.71	1.71	ppb	2.15	1000	
238	U	165	1	0.74	0.74	ppb	1.35	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	372630	2.58	398260	93.6	30 - 120	
45	Sc	1	2257023	2.79	2300683	98.1	30 - 120	
72	Ge	1	1347708	1.91	1383338	97.4	30 - 120	
115	In	1	3991034	1.90	4023995	99.2	30 - 120	
165	Ho	1	7436028	1.63	7427449	100.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\190_CCV.D\190_CCV.D#
Date Acquired:	Nov 16 2011 08:24 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.37	ppb	2.32	50	102.7	90 - 110	
51	V	72	1	50.85	ppb	1.38	50	101.7	90 - 110	
52	Cr	72	1	51.54	ppb	0.65	50	103.1	90 - 110	
55	Mn	72	1	51.04	ppb	1.38	50	102.1	90 - 110	
59	Co	72	1	50.32	ppb	0.31	50	100.6	90 - 110	
60	Ni	72	1	49.66	ppb	1.58	50	99.3	90 - 110	
63	Cu	72	1	48.88	ppb	1.30	50	97.8	90 - 110	
66	Zn	72	1	50.15	ppb	1.37	50	100.3	90 - 110	
75	As	72	1	50.22	ppb	0.94	50	100.4	90 - 110	
78	Se	72	1	50.53	ppb	1.72	50	101.1	90 - 110	
95	Mo	72	1	49.92	ppb	1.04	50	99.8	90 - 110	
107	Ag	115	1	50.52	ppb	1.70	50	101.0	90 - 110	
111	Cd	115	1	49.89	ppb	2.44	50	99.8	90 - 110	
118	Sn	115	1	49.02	ppb	2.32	50	98.0	90 - 110	
121	Sb	115	1	48.09	ppb	2.51	50	96.2	90 - 110	
137	Ba	115	1	50.78	ppb	2.17	50	101.6	90 - 110	
205	Tl	165	1	51.64	ppb	1.59	50	103.3	90 - 110	
208	Pb	165	1	50.01	ppb	1.97	50	100.0	90 - 110	
232	Th	165	1	51.49	ppb	1.74	50	103.0	90 - 110	
238	U	165	1	51.14	ppb	2.85	50	102.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	372041	0.77	398260	93.4	30 - 120	
45	Sc	1	2242619	1.72	2300683	97.5	30 - 120	
72	Ge	1	1357677	1.00	1383338	98.1	30 - 120	
115	In	1	4010775	2.01	4023995	99.7	30 - 120	
165	Ho	1	7400583	1.60	7427449	99.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\191_CCB.D\191_CCB.D#
Date Acquired: Nov 16 2011 08:27 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.017	ppb	99.42	1.00	
51	V	72	1	0.021	ppb	12.14	1.00	
52	Cr	72	1	0.017	ppb	21.07	1.00	
55	Mn	72	1	-0.016	ppb	116.05	1.00	
59	Co	72	1	0.011	ppb	13.57	1.00	
60	Ni	72	1	0.011	ppb	142.69	1.00	
63	Cu	72	1	0.003	ppb	192.50	1.00	
66	Zn	72	1	0.010	ppb	58.42	1.00	
75	As	72	1	0.000	ppb	1246.50	1.00	
78	Se	72	1	-0.104	ppb	246.65	1.00	
95	Mo	72	1	0.004	ppb	141.64	1.00	
107	Ag	115	1	0.012	ppb	7.74	1.00	
111	Cd	115	1	0.011	ppb	11.18	1.00	
118	Sn	115	1	0.026	ppb	32.83	1.00	
121	Sb	115	1	0.016	ppb	23.17	1.00	
137	Ba	115	1	-0.008	ppb	35.24	1.00	
205	Tl	165	1	0.018	ppb	15.60	1.00	
208	Pb	165	1	0.011	ppb	11.39	1.00	
232	Th	165	1	0.034	ppb	4.44	1.00	
238	U	165	1	0.014	ppb	4.66	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	376063	1.15	398260	94.4	30 - 120	
45	Sc	1	2274182	0.96	2300683	98.8	30 - 120	
72	Ge	1	1373380	1.04	1383338	99.3	30 - 120	
115	In	1	4003412	1.04	4023995	99.5	30 - 120	
165	Ho	1	7495925	1.27	7427449	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\192WASH.D\192WASH.D#
Date Acquired: Nov 16 2011 08:30 pm
Operator: TEL
Sample Name: LLICV-1131923
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.057	ppb	5.18	1.30	
51	V	72	1	5.147	ppb	1.75	6.50	
52	Cr	72	1	2.132	ppb	2.16	2.60	
55	Mn	72	1	1.016	ppb	2.24	1.30	
59	Co	72	1	1.036	ppb	1.67	1.30	
60	Ni	72	1	2.131	ppb	5.12	2.60	
63	Cu	72	1	2.011	ppb	3.65	2.60	
66	Zn	72	1	10.330	ppb	1.63	13.00	
75	As	72	1	5.232	ppb	0.71	6.50	
78	Se	72	1	4.940	ppb	12.82	6.50	
95	Mo	72	1	2.068	ppb	2.30	2.60	
107	Ag	115	1	5.236	ppb	1.70	6.50	
111	Cd	115	1	1.123	ppb	0.95	1.30	
118	Sn	115	1	10.450	ppb	1.04	13.00	
121	Sb	115	1	2.029	ppb	0.74	2.60	
137	Ba	115	1	1.073	ppb	2.06	1.30	
205	Tl	165	1	1.059	ppb	2.00	1.30	
208	Pb	165	1	1.031	ppb	2.10	1.30	
232	Th	165	1	2.087	ppb	0.74	2.60	
238	U	165	1	1.041	ppb	0.57	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	380953	1.42	398260	95.7	30 - 120	
45	Sc	1	2246074	1.12	2300683	97.6	30 - 120	
72	Ge	1	1368011	1.16	1383338	98.9	30 - 120	
115	In	1	3980195	1.37	4023995	98.9	30 - 120	
165	Ho	1	7363041	1.54	7427449	99.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\193_BLK.D\193_BLK.D#
Date Acquired: Nov 16 2011 08:33 pm
Operator: TEL
Sample Name: mb 280-94442/1-a
Misc Info: BLANK 94442 Soil/DoD4 6020
Vial Number: 4101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.017 ppb	99.71	2.00	
51	V	72	1	0.023 ppb	109.59	2.00	
52	Cr	72	1	0.325 ppb	3.77	2.00	
55	Mn	72	1	0.012 ppb	28.98	2.00	
59	Co	72	1	0.005 ppb	11.34	2.00	
60	Ni	72	1	0.082 ppb	8.46	2.00	
63	Cu	72	1	0.335 ppb	4.02	2.00	
66	Zn	72	1	0.433 ppb	5.27	2.00	
75	As	72	1	-0.001 ppb	360.32	2.00	
78	Se	72	1	-0.172 ppb	70.95	2.00	
95	Mo	72	1	0.008 ppb	24.56	2.00	
107	Ag	115	1	0.007 ppb	41.53	2.00	
111	Cd	115	1	0.000 ppb	22551.00	2.00	
118	Sn	115	1	0.045 ppb	14.16	2.00	
121	Sb	115	1	0.005 ppb	27.99	2.00	
137	Ba	115	1	0.078 ppb	12.32	2.00	
205	Tl	165	1	0.004 ppb	8.71	2.00	
208	Pb	165	1	0.023 ppb	3.62	2.00	
232	Th	165	1	0.011 ppb	7.72	2.00	
238	U	165	1	0.006 ppb	3.35	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	381650	0.50	398260	95.8	30 - 120	
45	Sc	1	2283201	0.66	2300683	99.2	30 - 120	
72	Ge	1	1380196	0.29	1383338	99.8	30 - 120	
115	In	1	4032015	0.61	4023995	100.2	30 - 120	
165	Ho	1	7499548	0.86	7427449	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\194_LCS.D\194_LCS.D#
Date Acquired:	Nov 16 2011 08:35 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-94442/2-a
Misc Info:	LCS
Vial Number:	4102
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	38.50	0.42	40	96.3	80 - 120	
51	V	72	1	37.60	0.34	40	94.0	80 - 120	
52	Cr	72	1	38.76	1.20	40	96.9	80 - 120	
55	Mn	72	1	37.74	0.95	40	94.4	80 - 120	
59	Co	72	1	38.95	1.12	40	97.4	80 - 120	
60	Ni	72	1	38.48	1.46	40	96.2	80 - 120	
63	Cu	72	1	38.15	0.59	40	95.4	80 - 120	
66	Zn	72	1	38.15	0.79	40	95.4	80 - 120	
75	As	72	1	37.74	0.81	40	94.4	80 - 120	
78	Se	72	1	38.58	1.38	40	96.5	80 - 120	
95	Mo	72	1	196.00	0.85	40	490.0	80 - 120	
107	Ag	115	1	38.30	3.18	40	95.8	80 - 120	
111	Cd	115	1	38.86	0.95	40	97.2	80 - 120	
118	Sn	115	1	375.50	0.84	40	938.8	80 - 120	
121	Sb	115	1	93.78	0.45	40	234.5	80 - 120	
137	Ba	115	1	38.92	0.47	40	97.3	80 - 120	
205	Tl	165	1	39.45	0.27	40	98.6	80 - 120	
208	Pb	165	1	38.04	0.77	40	95.1	80 - 120	
232	Th	165	1	39.37	0.94	40	98.4	80 - 120	
238	U	165	1	39.70	0.62	40	99.3	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	381776	0.54	398260	95.9	30 - 120	
45	Sc	1	2284862	1.25	2300683	99.3	30 - 120	
72	Ge	1	1349122	0.48	1383338	97.5	30 - 120	
115	In	1	4008296	0.40	4023995	99.6	30 - 120	
165	Ho	1	7448089	0.19	7427449	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\195SMPL.D\195SMPL.D#
Date Acquired: Nov 16 2011 08:38 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-a-5-a
Misc Info:
Vial Number: 4103
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.65	0.65	ppb	15.98	3600	
51	V	72	1	61.72	61.72	ppb	0.22	3600	
52	Cr	72	1	36.91	36.91	ppb	0.38	3600	
55	Mn	72	1	617.20	617.20	ppb	0.56	18000	
59	Co	72	1	15.57	15.57	ppb	0.72	3600	
60	Ni	72	1	45.15	45.15	ppb	0.70	3600	
63	Cu	72	1	37.52	37.52	ppb	0.27	3600	
66	Zn	72	1	117.00	117.00	ppb	0.41	3600	
75	As	72	1	13.78	13.78	ppb	1.46	3600	
78	Se	72	1	1.69	1.69	ppb	8.41	3600	
95	Mo	72	1	1.24	1.24	ppb	2.43	3600	
107	Ag	115	1	0.18	0.18	ppb	3.26	3600	
111	Cd	115	1	0.77	0.77	ppb	2.61	3600	
118	Sn	115	1	0.44	0.44	ppb	6.65	3600	
121	Sb	115	1	0.08	0.08	ppb	8.98	3600	
137	Ba	115	1	336.90	336.90	ppb	1.15	3600	
205	Tl	165	1	0.19	0.19	ppb	1.31	3600	
208	Pb	165	1	17.26	17.26	ppb	0.80	3600	
232	Th	165	1	6.57	6.57	ppb	1.58	1000	
238	U	165	1	1.13	1.13	ppb	0.25	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	366179	1.15	398260	91.9	30 - 120	
45	Sc	1	2235130	0.42	2300683	97.2	30 - 120	
72	Ge	1	1293093	0.49	1383338	93.5	30 - 120	
115	In	1	3759684	0.74	4023995	93.4	30 - 120	
165	Ho	1	7144475	0.55	7427449	96.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\196SMPL.D\196SMPL.D#
Date Acquired: Nov 16 2011 08:41 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-a-6-a
Misc Info:
Vial Number: 4104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.64	0.64	ppb	21.36	3600	
51 V	72	1	62.59	62.59	ppb	2.60	3600	
52 Cr	72	1	36.45	36.45	ppb	1.71	3600	
55 Mn	72	1	580.90	580.90	ppb	1.92	18000	
59 Co	72	1	15.80	15.80	ppb	1.96	3600	
60 Ni	72	1	45.58	45.58	ppb	2.09	3600	
63 Cu	72	1	37.41	37.41	ppb	2.25	3600	
66 Zn	72	1	114.00	114.00	ppb	2.30	3600	
75 As	72	1	14.42	14.42	ppb	2.72	3600	
78 Se	72	1	1.69	1.69	ppb	8.55	3600	
95 Mo	72	1	1.16	1.16	ppb	4.28	3600	
107 Ag	115	1	0.17	0.17	ppb	6.28	3600	
111 Cd	115	1	0.72	0.72	ppb	7.57	3600	
118 Sn	115	1	0.33	0.33	ppb	5.49	3600	
121 Sb	115	1	0.07	0.07	ppb	11.83	3600	
137 Ba	115	1	336.90	336.90	ppb	1.51	3600	
205 Tl	165	1	0.16	0.16	ppb	1.74	3600	
208 Pb	165	1	16.88	16.88	ppb	0.73	3600	
232 Th	165	1	6.57	6.57	ppb	1.19	1000	
238 U	165	1	1.00	1.00	ppb	0.94	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	363198	1.47	398260	91.2	30 - 120	
45 Sc	1	2188685	0.69	2300683	95.1	30 - 120	
72 Ge	1	1293047	2.09	1383338	93.5	30 - 120	
115 In	1	3769630	0.64	4023995	93.7	30 - 120	
165 Ho	1	7245194	0.77	7427449	97.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\197SMPL.D\197SMPL.D#
Date Acquired: Nov 16 2011 08:44 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-a-7-a
Misc Info:
Vial Number: 4105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.27	0.27	ppb	30.58	3600	
51	V	72	1	30.57	30.57	ppb	2.19	3600	
52	Cr	72	1	18.81	18.81	ppb	1.85	3600	
55	Mn	72	1	246.30	246.30	ppb	2.15	18000	
59	Co	72	1	9.21	9.21	ppb	2.16	3600	
60	Ni	72	1	23.71	23.71	ppb	3.60	3600	
63	Cu	72	1	13.66	13.66	ppb	2.66	3600	
66	Zn	72	1	46.59	46.59	ppb	1.82	3600	
75	As	72	1	6.19	6.19	ppb	3.84	3600	
78	Se	72	1	0.71	0.71	ppb	44.33	3600	
95	Mo	72	1	1.19	1.19	ppb	4.26	3600	
107	Ag	115	1	0.05	0.05	ppb	3.65	3600	
111	Cd	115	1	0.32	0.32	ppb	10.29	3600	
118	Sn	115	1	0.22	0.22	ppb	5.60	3600	
121	Sb	115	1	0.06	0.06	ppb	5.26	3600	
137	Ba	115	1	124.60	124.60	ppb	2.51	3600	
205	Tl	165	1	0.08	0.08	ppb	1.02	3600	
208	Pb	165	1	5.53	5.53	ppb	3.10	3600	
232	Th	165	1	3.01	3.01	ppb	2.14	1000	
238	U	165	1	0.47	0.47	ppb	2.92	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	369239	1.42	398260	92.7	30 - 120	
45	Sc	1	2235195	2.75	2300683	97.2	30 - 120	
72	Ge	1	1312884	2.12	1383338	94.9	30 - 120	
115	In	1	3853295	2.61	4023995	95.8	30 - 120	
165	Ho	1	7281098	2.74	7427449	98.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\198SMPL.D\198SMPL.D#
Date Acquired:	Nov 16 2011 08:47 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-8-a
Misc Info:	
Vial Number:	4106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	34.97	3600	
51	V	72	1	42.79	42.79	ppb	0.38	3600	
52	Cr	72	1	22.49	22.49	ppb	0.78	3600	
55	Mn	72	1	532.30	532.30	ppb	1.58	18000	
59	Co	72	1	11.48	11.48	ppb	1.13	3600	
60	Ni	72	1	31.37	31.37	ppb	1.46	3600	
63	Cu	72	1	14.64	14.64	ppb	0.66	3600	
66	Zn	72	1	62.66	62.66	ppb	0.37	3600	
75	As	72	1	8.26	8.26	ppb	1.00	3600	
78	Se	72	1	0.92	0.92	ppb	18.86	3600	
95	Mo	72	1	0.51	0.51	ppb	12.20	3600	
107	Ag	115	1	0.05	0.05	ppb	9.83	3600	
111	Cd	115	1	0.37	0.37	ppb	1.69	3600	
118	Sn	115	1	0.21	0.21	ppb	4.70	3600	
121	Sb	115	1	0.06	0.06	ppb	1.60	3600	
137	Ba	115	1	147.20	147.20	ppb	0.52	3600	
205	Tl	165	1	0.09	0.09	ppb	1.50	3600	
208	Pb	165	1	7.15	7.15	ppb	0.62	3600	
232	Th	165	1	3.42	3.42	ppb	0.68	1000	
238	U	165	1	0.53	0.53	ppb	1.48	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	362161	0.85	398260	90.9	30 - 120	
45	Sc	1	2201411	1.05	2300683	95.7	30 - 120	
72	Ge	1	1292429	0.89	1383338	93.4	30 - 120	
115	In	1	3805892	0.30	4023995	94.6	30 - 120	
165	Ho	1	7231658	0.41	7427449	97.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\199AREF.D\199AREF.D#
Date Acquired:	Nov 16 2011 08:50 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-9-a
Misc Info:	
Vial Number:	4107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	25.75	3600	
51	V	72	1	40.21	40.21	ppb	0.26	3600	
52	Cr	72	1	21.52	21.52	ppb	1.04	3600	
55	Mn	72	1	407.20	407.20	ppb	0.25	18000	
59	Co	72	1	11.20	11.20	ppb	0.65	3600	
60	Ni	72	1	29.11	29.11	ppb	0.99	3600	
63	Cu	72	1	13.31	13.31	ppb	0.22	3600	
66	Zn	72	1	56.63	56.63	ppb	0.54	3600	
75	As	72	1	7.64	7.64	ppb	1.30	3600	
78	Se	72	1	0.37	0.37	ppb	61.08	3600	
95	Mo	72	1	0.53	0.53	ppb	2.15	3600	
107	Ag	115	1	0.06	0.06	ppb	3.70	3600	
111	Cd	115	1	0.37	0.37	ppb	16.08	3600	
118	Sn	115	1	0.26	0.26	ppb	11.39	3600	
121	Sb	115	1	0.06	0.06	ppb	7.72	3600	
137	Ba	115	1	178.70	178.70	ppb	0.67	3600	
205	Tl	165	1	0.09	0.09	ppb	2.71	3600	
208	Pb	165	1	6.61	6.61	ppb	0.62	3600	
232	Th	165	1	3.26	3.26	ppb	0.31	1000	
238	U	165	1	0.50	0.50	ppb	2.00	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	363355	1.29	398260	91.2	30 - 120	
45	Sc	1	2191553	0.82	2300683	95.3	30 - 120	
72	Ge	1	1284368	0.58	1383338	92.8	30 - 120	
115	In	1	3773215	0.97	4023995	93.8	30 - 120	
165	Ho	1	7151990	0.71	7427449	96.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\200SDIL.D\200SDIL.D#
Date Acquired: Nov 16 2011 08:53 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-a-9-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 4108
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\199AREF.D\199AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.11	ppb	39.62	0.07	171.0	90 - 110	
51	V	72	1	8.15	ppb	0.16	8.04	101.3	90 - 110	
52	Cr	72	1	4.38	ppb	1.46	4.30	101.7	90 - 110	
55	Mn	72	1	85.56	ppb	1.13	81.44	105.1	90 - 110	
59	Co	72	1	2.28	ppb	0.69	2.24	101.6	90 - 110	
60	Ni	72	1	5.96	ppb	1.46	5.82	102.3	90 - 110	
63	Cu	72	1	2.74	ppb	0.20	2.66	103.0	90 - 110	
66	Zn	72	1	11.94	ppb	0.07	11.33	105.4	90 - 110	
75	As	72	1	1.59	ppb	2.20	1.53	104.3	90 - 110	
78	Se	72	1	-0.02	ppb	1066.30	0.07	-29.6	90 - 110	
95	Mo	72	1	0.09	ppb	6.21	0.11	82.7	90 - 110	
107	Ag	115	1	0.01	ppb	21.64	0.01	119.4	90 - 110	
111	Cd	115	1	0.05	ppb	2.79	0.07	68.3	90 - 110	
118	Sn	115	1	0.13	ppb	5.23	0.05	239.2	90 - 110	
121	Sb	115	1	0.01	ppb	23.34	0.01	109.3	90 - 110	
137	Ba	115	1	35.94	ppb	0.76	35.74	100.6	90 - 110	
205	Tl	165	1	0.02	ppb	5.46	0.02	112.2	90 - 110	
208	Pb	165	1	1.40	ppb	1.42	1.32	105.8	90 - 110	
232	Th	165	1	0.68	ppb	1.38	0.65	103.5	90 - 110	
238	U	165	1	0.11	ppb	0.88	0.10	107.5	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	366810	0.14	398260	92.1	30 - 120	
45	Sc	1	2206643	1.61	2300683	95.9	30 - 120	
72	Ge	1	1325398	0.67	1383338	95.8	30 - 120	
115	In	1	3899236	0.26	4023995	96.9	30 - 120	
165	Ho	1	7208953	0.97	7427449	97.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\201_CCV.D\201_CCV.D#
Date Acquired:	Nov 16 2011 08:56 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.35	ppb	1.91	50	102.7	90 - 110	
51	V	72	1	51.33	ppb	1.12	50	102.7	90 - 110	
52	Cr	72	1	51.11	ppb	1.00	50	102.2	90 - 110	
55	Mn	72	1	50.16	ppb	0.95	50	100.3	90 - 110	
59	Co	72	1	50.55	ppb	1.42	50	101.1	90 - 110	
60	Ni	72	1	49.91	ppb	1.58	50	99.8	90 - 110	
63	Cu	72	1	48.63	ppb	0.98	50	97.3	90 - 110	
66	Zn	72	1	49.85	ppb	1.59	50	99.7	90 - 110	
75	As	72	1	50.35	ppb	1.37	50	100.7	90 - 110	
78	Se	72	1	50.42	ppb	3.30	50	100.8	90 - 110	
95	Mo	72	1	49.51	ppb	0.44	50	99.0	90 - 110	
107	Ag	115	1	50.98	ppb	0.75	50	102.0	90 - 110	
111	Cd	115	1	49.89	ppb	0.48	50	99.8	90 - 110	
118	Sn	115	1	48.51	ppb	1.28	50	97.0	90 - 110	
121	Sb	115	1	47.84	ppb	0.73	50	95.7	90 - 110	
137	Ba	115	1	50.49	ppb	0.54	50	101.0	90 - 110	
205	Tl	165	1	51.19	ppb	1.20	50	102.4	90 - 110	
208	Pb	165	1	49.66	ppb	0.94	50	99.3	90 - 110	
232	Th	165	1	51.01	ppb	0.93	50	102.0	90 - 110	
238	U	165	1	51.35	ppb	1.12	50	102.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	373217	0.19	398260	93.7	30 - 120	
45	Sc	1	2219318	0.91	2300683	96.5	30 - 120	
72	Ge	1	1333064	1.01	1383338	96.4	30 - 120	
115	In	1	3945509	0.24	4023995	98.0	30 - 120	
165	Ho	1	7255070	0.71	7427449	97.7	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\202_CCB.D\202_CCB.D#
Date Acquired:	Nov 16 2011 08:59 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.018	ppb	173.23	1.00	
51	V	72	1	0.018	ppb	11.93	1.00	
52	Cr	72	1	0.018	ppb	25.09	1.00	
55	Mn	72	1	-0.013	ppb	76.47	1.00	
59	Co	72	1	0.011	ppb	15.44	1.00	
60	Ni	72	1	0.005	ppb	180.67	1.00	
63	Cu	72	1	0.002	ppb	346.37	1.00	
66	Zn	72	1	0.019	ppb	68.82	1.00	
75	As	72	1	0.007	ppb	88.36	1.00	
78	Se	72	1	0.054	ppb	618.27	1.00	
95	Mo	72	1	0.001	ppb	167.12	1.00	
107	Ag	115	1	0.009	ppb	50.01	1.00	
111	Cd	115	1	0.010	ppb	21.23	1.00	
118	Sn	115	1	0.041	ppb	7.73	1.00	
121	Sb	115	1	0.017	ppb	6.96	1.00	
137	Ba	115	1	-0.001	ppb	263.45	1.00	
205	Tl	165	1	0.017	ppb	8.01	1.00	
208	Pb	165	1	0.011	ppb	8.90	1.00	
232	Th	165	1	0.025	ppb	9.67	1.00	
238	U	165	1	0.013	ppb	4.61	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	372065	1.39	398260	93.4	30 - 120	
45	Sc	1	2238547	0.93	2300683	97.3	30 - 120	
72	Ge	1	1341086	0.62	1383338	96.9	30 - 120	
115	In	1	3958379	0.92	4023995	98.4	30 - 120	
165	Ho	1	7281539	0.80	7427449	98.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\203PDS.D\203PDS.D#		
Date Acquired:	Nov 16 2011 09:02 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	TEL	ISTD:	Pass
Sample Name:	280-22230-a-9-a PDS		
Misc Info:	POST DIGESTION SPIKE		
Vial Number:	4109		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 07:29 pm		
Sample Type:	PDS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	204.30	0.33	ppb	0.60	200	102.0	75 - 125	
51 V	72	1	231.00	40.21	ppb	2.00	200	96.2	75 - 125	
52 Cr	72	1	216.60	21.52	ppb	1.31	200	97.8	75 - 125	
55 Mn	72	1	577.10	407.20	ppb	2.09	200	95.0	75 - 125	
59 Co	72	1	201.30	11.20	ppb	2.24	200	95.3	75 - 125	
60 Ni	72	1	226.90	29.11	ppb	1.77	200	99.0	75 - 125	
63 Cu	72	1	202.20	13.31	ppb	1.85	200	94.8	75 - 125	
66 Zn	72	1	244.00	56.63	ppb	1.42	200	95.1	75 - 125	
75 As	72	1	204.30	7.64	ppb	1.28	200	98.4	75 - 125	
78 Se	72	1	196.60	0.37	ppb	0.91	200	98.1	75 - 125	
95 Mo	72	1	205.60	0.53	ppb	1.14	200	102.5	75 - 125	
107 Ag	115	1	50.05	0.06	ppb	0.33	50	100.0	75 - 125	
111 Cd	115	1	204.10	0.37	ppb	0.20	200	101.9	75 - 125	
118 Sn	115	1	204.50	0.26	ppb	0.93	200	102.1	75 - 125	
121 Sb	115	1	198.80	0.06	ppb	0.22	200	99.4	75 - 125	
137 Ba	115	1	390.40	178.70	ppb	1.54	200	103.1	75 - 125	
205 Tl	165	1	197.20	0.09	ppb	0.12	200	98.6	75 - 125	
208 Pb	165	1	200.00	6.61	ppb	0.65	200	96.8	75 - 125	
232 Th	165	1	3.20	3.26	ppb	1.27	200	1.6	75 - 125	
238 U	165	1	200.30	0.50	ppb	1.00	200	99.9	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	365163	1.03	398260	91.7	30 - 120	
45 Sc	1	2193993	0.78	2300683	95.4	30 - 120	
72 Ge	1	1300038	1.47	1383338	94.0	30 - 120	
115 In	1	3775372	0.37	4023995	93.8	30 - 120	
165 Ho	1	7173277	0.51	7427449	96.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\204_MS.D\204_MS.D#		
Date Acquired:	Nov 16 2011 09:05 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	TEL	ISTD:	Pass
Sample Name:	280-22230-a-9-b ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	4110		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 07:29 pm		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	36.81	0.33	ppb	1.43	40	91.3	50 - 150	
51	V	72	1	87.04	40.21	ppb	0.71	40	108.5	50 - 150	
52	Cr	72	1	61.55	21.52	ppb	0.99	40	100.0	50 - 150	
55	Mn	72	1	425.40	407.20	ppb	0.97	40	95.1	50 - 150	
59	Co	72	1	46.84	11.20	ppb	0.69	40	91.5	50 - 150	
60	Ni	72	1	62.07	29.11	ppb	0.31	40	89.8	50 - 150	
63	Cu	72	1	46.00	13.31	ppb	0.34	40	86.3	50 - 150	
66	Zn	72	1	86.36	56.63	ppb	0.90	40	89.4	50 - 150	
75	As	72	1	42.75	7.64	ppb	1.01	40	89.7	50 - 150	
78	Se	72	1	35.50	0.37	ppb	0.49	40	87.9	50 - 150	
95	Mo	72	1	186.80	0.53	ppb	0.92	40	460.8	50 - 150	
107	Ag	115	1	35.16	0.06	ppb	0.95	40	87.8	50 - 150	
111	Cd	115	1	37.90	0.37	ppb	1.42	40	93.9	50 - 150	
118	Sn	115	1	332.10	0.26	ppb	1.61	40	824.8	50 - 150	
121	Sb	115	1	57.84	0.06	ppb	0.88	40	144.4	50 - 150	
137	Ba	115	1	227.60	178.70	ppb	1.76	40	104.1	50 - 150	
205	Tl	165	1	37.18	0.09	ppb	1.74	40	92.7	50 - 150	
208	Pb	165	1	41.86	6.61	ppb	1.04	40	89.8	50 - 150	
232	Th	165	1	41.04	3.26	ppb	1.14	40	94.9	50 - 150	
238	U	165	1	38.22	0.50	ppb	0.40	40	94.4	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	359816	1.01	398260	90.3	30 - 120	
45	Sc	1	2171550	1.41	2300683	94.4	30 - 120	
72	Ge	1	1269458	0.87	1383338	91.8	30 - 120	
115	In	1	3761042	0.41	4023995	93.5	30 - 120	
165	Ho	1	7082950	1.17	7427449	95.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\205_MSD.D\205_MSD.D#
Date Acquired:	Nov 16 2011 09:07 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-9-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	4111
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\204_MS.D\204_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	38.57	ppb	2.40	36.81	4.67	20	
51	V	72	1	88.89	ppb	1.03	87.04	2.10	20	
52	Cr	72	1	63.70	ppb	2.18	61.55	3.43	20	
55	Mn	72	1	440.10	ppb	0.96	425.40	3.40	20	
59	Co	72	1	48.67	ppb	0.21	46.84	3.83	20	
60	Ni	72	1	65.39	ppb	0.51	62.07	5.21	20	
63	Cu	72	1	47.79	ppb	0.68	46.00	3.82	20	
66	Zn	72	1	91.50	ppb	1.00	86.36	5.78	20	
75	As	72	1	44.01	ppb	1.02	42.75	2.90	20	
78	Se	72	1	37.96	ppb	4.97	35.50	6.70	20	
95	Mo	72	1	190.10	ppb	2.40	186.80	1.75	20	
107	Ag	115	1	36.19	ppb	1.69	35.16	2.89	20	
111	Cd	115	1	38.70	ppb	1.85	37.90	2.09	20	
118	Sn	115	1	336.70	ppb	0.34	332.10	1.38	20	
121	Sb	115	1	57.71	ppb	0.87	57.84	0.23	20	
137	Ba	115	1	248.50	ppb	1.24	227.60	8.78	20	
205	Tl	165	1	38.20	ppb	1.29	37.18	2.71	20	
208	Pb	165	1	43.07	ppb	1.00	41.86	2.85	20	
232	Th	165	1	42.75	ppb	0.76	41.04	4.08	20	
238	U	165	1	39.08	ppb	1.29	38.22	2.23	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	352797	0.95	398260	88.6	30 - 120	
45	Sc	1	2181589	0.19	2300683	94.8	30 - 120	
72	Ge	1	1271015	0.76	1383338	91.9	30 - 120	
115	In	1	3738587	1.41	4023995	92.9	30 - 120	
165	Ho	1	7142335	0.86	7427449	96.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\206SMPL.D\206SMPL.D#
Date Acquired: Nov 16 2011 09:10 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-a-10-a
Misc Info:
Vial Number: 4112
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	30.44	3600	
51	V	72	1	30.45	30.45	ppb	0.70	3600	
52	Cr	72	1	19.14	19.14	ppb	0.61	3600	
55	Mn	72	1	288.10	288.10	ppb	0.86	18000	
59	Co	72	1	9.65	9.65	ppb	0.86	3600	
60	Ni	72	1	26.34	26.34	ppb	1.85	3600	
63	Cu	72	1	10.89	10.89	ppb	0.14	3600	
66	Zn	72	1	44.98	44.98	ppb	0.28	3600	
75	As	72	1	5.55	5.55	ppb	1.78	3600	
78	Se	72	1	0.82	0.82	ppb	18.53	3600	
95	Mo	72	1	0.53	0.53	ppb	3.08	3600	
107	Ag	115	1	0.05	0.05	ppb	4.95	3600	
111	Cd	115	1	0.26	0.26	ppb	3.57	3600	
118	Sn	115	1	0.39	0.39	ppb	10.22	3600	
121	Sb	115	1	0.08	0.08	ppb	4.18	3600	
137	Ba	115	1	117.30	117.30	ppb	0.98	3600	
205	Tl	165	1	0.10	0.10	ppb	1.14	3600	
208	Pb	165	1	5.30	5.30	ppb	0.48	3600	
232	Th	165	1	2.66	2.66	ppb	0.81	1000	
238	U	165	1	0.42	0.42	ppb	0.57	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	365419	0.86	398260	91.8	30 - 120	
45	Sc	1	2189305	1.20	2300683	95.2	30 - 120	
72	Ge	1	1296418	0.38	1383338	93.7	30 - 120	
115	In	1	3813751	0.62	4023995	94.8	30 - 120	
165	Ho	1	7301068	0.75	7427449	98.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\207SMPL.D\207SMPL.D#
Date Acquired: Nov 16 2011 09:13 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-a-11-a
Misc Info:
Vial Number: 4201
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.29	0.29	ppb	5.97	3600	
51	V	72	1	33.82	33.82	ppb	0.22	3600	
52	Cr	72	1	17.29	17.29	ppb	0.87	3600	
55	Mn	72	1	290.60	290.60	ppb	0.76	18000	
59	Co	72	1	9.67	9.67	ppb	0.70	3600	
60	Ni	72	1	25.83	25.83	ppb	0.51	3600	
63	Cu	72	1	11.33	11.33	ppb	1.65	3600	
66	Zn	72	1	45.81	45.81	ppb	1.61	3600	
75	As	72	1	4.61	4.61	ppb	1.25	3600	
78	Se	72	1	0.48	0.48	ppb	60.83	3600	
95	Mo	72	1	0.37	0.37	ppb	5.15	3600	
107	Ag	115	1	0.04	0.04	ppb	5.27	3600	
111	Cd	115	1	0.35	0.35	ppb	4.98	3600	
118	Sn	115	1	0.24	0.24	ppb	4.05	3600	
121	Sb	115	1	0.07	0.07	ppb	1.71	3600	
137	Ba	115	1	165.20	165.20	ppb	1.15	3600	
205	Tl	165	1	0.09	0.09	ppb	0.76	3600	
208	Pb	165	1	5.26	5.26	ppb	1.01	3600	
232	Th	165	1	2.87	2.87	ppb	1.48	1000	
238	U	165	1	0.42	0.42	ppb	1.44	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	363903	0.48	398260	91.4	30 - 120	
45	Sc	1	2184480	0.52	2300683	94.9	30 - 120	
72	Ge	1	1302778	1.24	1383338	94.2	30 - 120	
115	In	1	3797285	1.16	4023995	94.4	30 - 120	
165	Ho	1	7176211	0.90	7427449	96.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\208SMPL.D\208SMPL.D#
Date Acquired:	Nov 16 2011 09:16 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-12-a
Misc Info:	
Vial Number:	4202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.34	0.34	ppb	41.49	3600	
51	V	72	1	41.65	41.65	ppb	1.04	3600	
52	Cr	72	1	25.17	25.17	ppb	0.65	3600	
55	Mn	72	1	364.60	364.60	ppb	1.32	18000	
59	Co	72	1	11.26	11.26	ppb	0.39	3600	
60	Ni	72	1	29.48	29.48	ppb	0.85	3600	
63	Cu	72	1	17.27	17.27	ppb	0.18	3600	
66	Zn	72	1	50.75	50.75	ppb	0.66	3600	
75	As	72	1	7.76	7.76	ppb	1.72	3600	
78	Se	72	1	1.13	1.13	ppb	11.30	3600	
95	Mo	72	1	0.87	0.87	ppb	5.06	3600	
107	Ag	115	1	0.07	0.07	ppb	3.33	3600	
111	Cd	115	1	0.32	0.32	ppb	13.12	3600	
118	Sn	115	1	0.32	0.32	ppb	6.84	3600	
121	Sb	115	1	0.06	0.06	ppb	5.62	3600	
137	Ba	115	1	183.90	183.90	ppb	2.19	3600	
205	Tl	165	1	0.09	0.09	ppb	2.31	3600	
208	Pb	165	1	6.33	6.33	ppb	0.44	3600	
232	Th	165	1	3.52	3.52	ppb	2.22	1000	
238	U	165	1	0.52	0.52	ppb	0.74	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	360368	0.76	398260	90.5	30 - 120	
45	Sc	1	2178276	0.95	2300683	94.7	30 - 120	
72	Ge	1	1289492	0.59	1383338	93.2	30 - 120	
115	In	1	3794356	1.98	4023995	94.3	30 - 120	
165	Ho	1	7139170	0.81	7427449	96.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\209SMPL.D\209SMPL.D#
Date Acquired: Nov 16 2011 09:19 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-a-13-a
Misc Info:
Vial Number: 4203
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.51	0.51	ppb	9.28	3600	
51 V	72	1	67.63	67.63	ppb	1.33	3600	
52 Cr	72	1	40.03	40.03	ppb	0.27	3600	
55 Mn	72	1	702.50	702.50	ppb	0.69	18000	
59 Co	72	1	17.36	17.36	ppb	0.65	3600	
60 Ni	72	1	49.36	49.36	ppb	1.20	3600	
63 Cu	72	1	41.61	41.61	ppb	0.91	3600	
66 Zn	72	1	121.70	121.70	ppb	0.56	3600	
75 As	72	1	14.13	14.13	ppb	0.71	3600	
78 Se	72	1	1.66	1.66	ppb	4.81	3600	
95 Mo	72	1	1.19	1.19	ppb	1.22	3600	
107 Ag	115	1	0.18	0.18	ppb	5.59	3600	
111 Cd	115	1	0.78	0.78	ppb	5.69	3600	
118 Sn	115	1	0.28	0.28	ppb	10.46	3600	
121 Sb	115	1	0.08	0.08	ppb	10.26	3600	
137 Ba	115	1	356.30	356.30	ppb	1.94	3600	
205 Tl	165	1	0.17	0.17	ppb	0.77	3600	
208 Pb	165	1	12.26	12.26	ppb	0.99	3600	
232 Th	165	1	6.93	6.93	ppb	1.46	1000	
238 U	165	1	1.28	1.28	ppb	1.23	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	347122	0.55	398260	87.2	30 - 120	
45 Sc	1	2145142	1.32	2300683	93.2	30 - 120	
72 Ge	1	1241697	0.79	1383338	89.8	30 - 120	
115 In	1	3663670	0.45	4023995	91.0	30 - 120	
165 Ho	1	6931687	0.82	7427449	93.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\210SMPL.D\210SMPL.D#
Date Acquired: Nov 16 2011 09:22 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-a-14-a
Misc Info:
Vial Number: 4204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.41	0.41	ppb	10.81	3600	
51	V	72	1	54.74	54.74	ppb	1.14	3600	
52	Cr	72	1	29.55	29.55	ppb	0.50	3600	
55	Mn	72	1	476.70	476.70	ppb	0.37	18000	
59	Co	72	1	13.91	13.91	ppb	0.41	3600	
60	Ni	72	1	41.46	41.46	ppb	0.51	3600	
63	Cu	72	1	23.39	23.39	ppb	0.72	3600	
66	Zn	72	1	78.38	78.38	ppb	0.74	3600	
75	As	72	1	9.73	9.73	ppb	2.35	3600	
78	Se	72	1	1.23	1.23	ppb	27.75	3600	
95	Mo	72	1	0.80	0.80	ppb	4.53	3600	
107	Ag	115	1	0.10	0.10	ppb	11.29	3600	
111	Cd	115	1	0.50	0.50	ppb	9.09	3600	
118	Sn	115	1	0.30	0.30	ppb	2.61	3600	
121	Sb	115	1	0.06	0.06	ppb	6.84	3600	
137	Ba	115	1	191.10	191.10	ppb	0.09	3600	
205	Tl	165	1	0.10	0.10	ppb	6.40	3600	
208	Pb	165	1	7.78	7.78	ppb	1.30	3600	
232	Th	165	1	4.35	4.35	ppb	1.80	1000	
238	U	165	1	0.68	0.68	ppb	1.43	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	353095	1.42	398260	88.7	30 - 120	
45	Sc	1	2148500	0.72	2300683	93.4	30 - 120	
72	Ge	1	1274009	0.57	1383338	92.1	30 - 120	
115	In	1	3740462	0.54	4023995	93.0	30 - 120	
165	Ho	1	7092746	1.03	7427449	95.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\211_CCV.D\211_CCV.D#
Date Acquired:	Nov 16 2011 09:25 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.25	ppb	3.26	50	104.5	90 - 110	
51	V	72	1	51.23	ppb	2.00	50	102.5	90 - 110	
52	Cr	72	1	52.02	ppb	1.01	50	104.0	90 - 110	
55	Mn	72	1	50.57	ppb	1.33	50	101.1	90 - 110	
59	Co	72	1	51.11	ppb	0.58	50	102.2	90 - 110	
60	Ni	72	1	50.48	ppb	0.54	50	101.0	90 - 110	
63	Cu	72	1	49.47	ppb	0.40	50	98.9	90 - 110	
66	Zn	72	1	50.41	ppb	0.77	50	100.8	90 - 110	
75	As	72	1	50.83	ppb	0.60	50	101.7	90 - 110	
78	Se	72	1	50.02	ppb	3.37	50	100.0	90 - 110	
95	Mo	72	1	50.27	ppb	1.08	50	100.5	90 - 110	
107	Ag	115	1	51.70	ppb	1.05	50	103.4	90 - 110	
111	Cd	115	1	50.44	ppb	1.22	50	100.9	90 - 110	
118	Sn	115	1	49.27	ppb	0.87	50	98.5	90 - 110	
121	Sb	115	1	48.32	ppb	0.28	50	96.6	90 - 110	
137	Ba	115	1	51.28	ppb	1.03	50	102.6	90 - 110	
205	Tl	165	1	52.42	ppb	0.83	50	104.8	90 - 110	
208	Pb	165	1	50.86	ppb	0.81	50	101.7	90 - 110	
232	Th	165	1	52.21	ppb	0.73	50	104.4	90 - 110	
238	U	165	1	51.47	ppb	1.24	50	102.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	362912	1.65	398260	91.1	30 - 120	
45	Sc	1	2181365	1.61	2300683	94.8	30 - 120	
72	Ge	1	1320539	0.32	1383338	95.5	30 - 120	
115	In	1	3921772	0.62	4023995	97.5	30 - 120	
165	Ho	1	7236905	0.96	7427449	97.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\212_CCB.D\212_CCB.D#
Date Acquired: Nov 16 2011 09:28 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.017	ppb	173.24	1.00	
51	V	72	1	0.029	ppb	36.08	1.00	
52	Cr	72	1	0.005	ppb	276.77	1.00	
55	Mn	72	1	-0.013	ppb	60.10	1.00	
59	Co	72	1	0.008	ppb	15.51	1.00	
60	Ni	72	1	0.022	ppb	45.11	1.00	
63	Cu	72	1	0.008	ppb	16.35	1.00	
66	Zn	72	1	0.051	ppb	19.42	1.00	
75	As	72	1	0.007	ppb	103.64	1.00	
78	Se	72	1	0.032	ppb	740.11	1.00	
95	Mo	72	1	-0.001	ppb	247.70	1.00	
107	Ag	115	1	0.009	ppb	42.38	1.00	
111	Cd	115	1	0.004	ppb	66.66	1.00	
118	Sn	115	1	0.040	ppb	8.91	1.00	
121	Sb	115	1	0.012	ppb	4.47	1.00	
137	Ba	115	1	0.015	ppb	57.47	1.00	
205	Tl	165	1	0.010	ppb	12.25	1.00	
208	Pb	165	1	0.007	ppb	2.74	1.00	
232	Th	165	1	0.013	ppb	3.67	1.00	
238	U	165	1	0.009	ppb	6.91	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	371139	0.48	398260	93.2	30 - 120	
45	Sc	1	2246105	2.24	2300683	97.6	30 - 120	
72	Ge	1	1351343	1.24	1383338	97.7	30 - 120	
115	In	1	3984880	0.75	4023995	99.0	30 - 120	
165	Ho	1	7285111	0.99	7427449	98.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\213SMPL.D\213SMPL.D#
Date Acquired:	Nov 16 2011 09:31 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-15-a
Misc Info:	
Vial Number:	4205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	9.14	3600	
51	V	72	1	37.83	37.83	ppb	1.51	3600	
52	Cr	72	1	22.52	22.52	ppb	1.23	3600	
55	Mn	72	1	1,069.00	1069.00	ppb	1.61	18000	
59	Co	72	1	12.31	12.31	ppb	0.43	3600	
60	Ni	72	1	30.32	30.32	ppb	1.46	3600	
63	Cu	72	1	12.57	12.57	ppb	0.74	3600	
66	Zn	72	1	56.40	56.40	ppb	1.64	3600	
75	As	72	1	7.47	7.47	ppb	1.81	3600	
78	Se	72	1	1.07	1.07	ppb	29.80	3600	
95	Mo	72	1	0.83	0.83	ppb	4.56	3600	
107	Ag	115	1	0.06	0.06	ppb	19.27	3600	
111	Cd	115	1	0.40	0.40	ppb	3.92	3600	
118	Sn	115	1	0.23	0.23	ppb	7.08	3600	
121	Sb	115	1	0.05	0.05	ppb	12.14	3600	
137	Ba	115	1	173.40	173.40	ppb	0.46	3600	
205	Tl	165	1	0.11	0.11	ppb	2.70	3600	
208	Pb	165	1	6.98	6.98	ppb	0.88	3600	
232	Th	165	1	3.22	3.22	ppb	0.79	1000	
238	U	165	1	0.58	0.58	ppb	0.83	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357971	0.95	398260	89.9	30 - 120	
45	Sc	1	2180385	0.81	2300683	94.8	30 - 120	
72	Ge	1	1278940	1.26	1383338	92.5	30 - 120	
115	In	1	3752264	0.57	4023995	93.2	30 - 120	
165	Ho	1	7136412	0.27	7427449	96.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\214AREF.D\214AREF.D#
Date Acquired: Nov 16 2011 09:34 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-c-16-a
Misc Info:
Vial Number: 4206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.29	0.29	ppb	7.27	3600	
51	V	72	1	35.24	35.24	ppb	1.52	3600	
52	Cr	72	1	19.19	19.19	ppb	0.75	3600	
55	Mn	72	1	548.70	548.70	ppb	0.92	18000	
59	Co	72	1	11.77	11.77	ppb	1.71	3600	
60	Ni	72	1	28.11	28.11	ppb	1.78	3600	
63	Cu	72	1	11.70	11.70	ppb	2.66	3600	
66	Zn	72	1	52.84	52.84	ppb	1.91	3600	
75	As	72	1	7.14	7.14	ppb	2.07	3600	
78	Se	72	1	0.68	0.68	ppb	116.23	3600	
95	Mo	72	1	0.60	0.60	ppb	3.38	3600	
107	Ag	115	1	0.05	0.05	ppb	3.36	3600	
111	Cd	115	1	0.35	0.35	ppb	9.38	3600	
118	Sn	115	1	0.24	0.24	ppb	0.89	3600	
121	Sb	115	1	0.06	0.06	ppb	16.08	3600	
137	Ba	115	1	143.30	143.30	ppb	2.54	3600	
205	Tl	165	1	0.09	0.09	ppb	5.46	3600	
208	Pb	165	1	6.40	6.40	ppb	1.45	3600	
232	Th	165	1	2.98	2.98	ppb	2.54	1000	
238	U	165	1	0.52	0.52	ppb	2.71	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	355668	1.04	398260	89.3	30 - 120	
45	Sc	1	2159606	1.63	2300683	93.9	30 - 120	
72	Ge	1	1274896	1.71	1383338	92.2	30 - 120	
115	In	1	3774000	1.98	4023995	93.8	30 - 120	
165	Ho	1	7168616	1.59	7427449	96.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\215_MS.D\215_MS.D#		
Date Acquired:	Nov 16 2011 09:37 pm	**QC Summary:**	
Acq. Method:	NormISIS.M	**Analytes:**	**Pass**
Operator:	TEL	**ISTD:**	**Pass**
Sample Name:	280-22230-c-16-b ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	4207		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 07:29 pm		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	38.13	0.29	ppb	2.37	40	94.6	50 - 150	
51 V	72	1	84.65	35.24	ppb	1.44	40	112.5	50 - 150	
52 Cr	72	1	60.93	19.19	ppb	1.60	40	102.9	50 - 150	
55 Mn	72	1	627.10	548.70	ppb	1.28	40	106.5	50 - 150	
59 Co	72	1	48.59	11.77	ppb	1.27	40	93.9	50 - 150	
60 Ni	72	1	63.00	28.11	ppb	1.40	40	92.5	50 - 150	
63 Cu	72	1	46.28	11.70	ppb	0.87	40	89.5	50 - 150	
66 Zn	72	1	87.79	52.84	ppb	0.99	40	94.6	50 - 150	
75 As	72	1	44.22	7.14	ppb	1.58	40	93.8	50 - 150	
78 Se	72	1	35.82	0.68	ppb	0.47	40	88.0	50 - 150	
95 Mo	72	1	188.70	0.60	ppb	0.79	40	464.8	50 - 150	
107 Ag	115	1	35.42	0.05	ppb	1.06	40	88.4	50 - 150	
111 Cd	115	1	38.09	0.35	ppb	1.22	40	94.4	50 - 150	
118 Sn	115	1	334.80	0.24	ppb	0.42	40	832.0	50 - 150	
121 Sb	115	1	58.15	0.06	ppb	0.32	40	145.2	50 - 150	
137 Ba	115	1	249.10	143.30	ppb	1.80	40	135.9	50 - 150	
205 Tl	165	1	37.20	0.09	ppb	0.27	40	92.8	50 - 150	
208 Pb	165	1	42.04	6.40	ppb	0.78	40	90.6	50 - 150	
232 Th	165	1	41.50	2.97	ppb	1.34	40	96.6	50 - 150	
238 U	165	1	38.13	0.52	ppb	1.22	40	94.1	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	351079	1.21	398260	88.2	30 - 120	
45 Sc	1	2148242	0.29	2300683	93.4	30 - 120	
72 Ge	1	1262096	0.83	1383338	91.2	30 - 120	
115 In	1	3712873	0.40	4023995	92.3	30 - 120	
165 Ho	1	7018113	0.71	7427449	94.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\216_MSD.D\216_MSD.D#
Date Acquired:	Nov 16 2011 09:40 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-c-16-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	4208
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\215_MS.D\215_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	36.32	ppb	2.40	38.13	4.86	20	
51	V	72	1	78.24	ppb	0.16	84.65	7.87	20	
52	Cr	72	1	56.99	ppb	1.09	60.93	6.68	20	
55	Mn	72	1	492.30	ppb	1.75	627.10	24.08	20	
59	Co	72	1	45.03	ppb	1.65	48.59	7.61	20	
60	Ni	72	1	58.41	ppb	0.86	63.00	7.56	20	
63	Cu	72	1	43.72	ppb	1.50	46.28	5.69	20	
66	Zn	72	1	80.21	ppb	1.37	87.79	9.02	20	
75	As	72	1	41.02	ppb	1.25	44.22	7.51	20	
78	Se	72	1	34.55	ppb	5.68	35.82	3.61	20	
95	Mo	72	1	179.40	ppb	1.45	188.70	5.05	20	
107	Ag	115	1	34.21	ppb	0.70	35.42	3.48	20	
111	Cd	115	1	36.70	ppb	0.91	38.09	3.72	20	
118	Sn	115	1	325.40	ppb	1.75	334.80	2.85	20	
121	Sb	115	1	57.42	ppb	0.67	58.15	1.26	20	
137	Ba	115	1	217.40	ppb	1.98	249.10	13.59	20	
205	Tl	165	1	36.12	ppb	1.35	37.20	2.95	20	
208	Pb	165	1	40.11	ppb	2.30	42.04	4.70	20	
232	Th	165	1	39.98	ppb	1.10	41.50	3.73	20	
238	U	165	1	36.97	ppb	2.78	38.13	3.09	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	348358	1.30	398260	87.5	30 - 120	
45	Sc	1	2136490	0.55	2300683	92.9	30 - 120	
72	Ge	1	1272057	1.21	1383338	92.0	30 - 120	
115	In	1	3712203	1.09	4023995	92.3	30 - 120	
165	Ho	1	7119424	1.19	7427449	95.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\217SMPL.D\217SMPL.D#
Date Acquired:	Nov 16 2011 09:42 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-17-a
Misc Info:	
Vial Number:	4209
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.35	0.35	ppb	10.22	3600	
51	V	72	1	33.29	33.29	ppb	1.29	3600	
52	Cr	72	1	19.43	19.43	ppb	0.80	3600	
55	Mn	72	1	569.10	569.10	ppb	1.57	18000	
59	Co	72	1	10.26	10.26	ppb	1.74	3600	
60	Ni	72	1	27.30	27.30	ppb	1.86	3600	
63	Cu	72	1	12.06	12.06	ppb	2.03	3600	
66	Zn	72	1	49.14	49.14	ppb	1.20	3600	
75	As	72	1	6.60	6.60	ppb	2.74	3600	
78	Se	72	1	0.54	0.54	ppb	27.89	3600	
95	Mo	72	1	0.43	0.43	ppb	8.27	3600	
107	Ag	115	1	0.05	0.05	ppb	1.88	3600	
111	Cd	115	1	0.38	0.38	ppb	4.06	3600	
118	Sn	115	1	0.36	0.36	ppb	5.10	3600	
121	Sb	115	1	0.07	0.07	ppb	7.07	3600	
137	Ba	115	1	146.00	146.00	ppb	0.59	3600	
205	Tl	165	1	0.09	0.09	ppb	3.87	3600	
208	Pb	165	1	5.92	5.92	ppb	1.07	3600	
232	Th	165	1	2.94	2.94	ppb	0.64	1000	
238	U	165	1	0.51	0.51	ppb	1.79	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357292	0.64	398260	89.7	30 - 120	
45	Sc	1	2178985	0.48	2300683	94.7	30 - 120	
72	Ge	1	1282724	1.10	1383338	92.7	30 - 120	
115	In	1	3776403	0.58	4023995	93.8	30 - 120	
165	Ho	1	7107567	0.72	7427449	95.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\218SMPL.D\218SMPL.D#
Date Acquired:	Nov 16 2011 09:45 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22230-a-18-a
Misc Info:	
Vial Number:	4210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.24	0.24	ppb	16.07	3600	
51	V	72	1	24.45	24.45	ppb	1.05	3600	
52	Cr	72	1	14.81	14.81	ppb	1.81	3600	
55	Mn	72	1	196.60	196.60	ppb	1.22	18000	
59	Co	72	1	7.34	7.34	ppb	0.96	3600	
60	Ni	72	1	19.00	19.00	ppb	1.80	3600	
63	Cu	72	1	8.37	8.37	ppb	1.98	3600	
66	Zn	72	1	35.96	35.96	ppb	0.93	3600	
75	As	72	1	3.62	3.62	ppb	0.59	3600	
78	Se	72	1	0.42	0.42	ppb	82.58	3600	
95	Mo	72	1	0.40	0.40	ppb	2.80	3600	
107	Ag	115	1	0.04	0.04	ppb	6.05	3600	
111	Cd	115	1	0.26	0.26	ppb	9.56	3600	
118	Sn	115	1	0.24	0.24	ppb	2.45	3600	
121	Sb	115	1	0.06	0.06	ppb	14.53	3600	
137	Ba	115	1	126.30	126.30	ppb	0.63	3600	
205	Tl	165	1	0.08	0.08	ppb	5.63	3600	
208	Pb	165	1	4.39	4.39	ppb	0.48	3600	
232	Th	165	1	2.79	2.79	ppb	0.80	1000	
238	U	165	1	0.58	0.58	ppb	0.47	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357932	0.97	398260	89.9	30 - 120	
45	Sc	1	2191315	0.40	2300683	95.2	30 - 120	
72	Ge	1	1304859	1.07	1383338	94.3	30 - 120	
115	In	1	3859440	0.96	4023995	95.9	30 - 120	
165	Ho	1	7157502	0.76	7427449	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\219SMPL.D\219SMPL.D#
Date Acquired: Nov 16 2011 09:48 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22230-a-19-a
Misc Info:
Vial Number: 4211
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.23	0.23	ppb	21.38	3600	
51	V	72	1	30.76	30.76	ppb	0.21	3600	
52	Cr	72	1	18.17	18.17	ppb	0.90	3600	
55	Mn	72	1	304.90	304.90	ppb	0.97	18000	
59	Co	72	1	9.29	9.29	ppb	0.71	3600	
60	Ni	72	1	24.64	24.64	ppb	0.85	3600	
63	Cu	72	1	11.06	11.06	ppb	0.10	3600	
66	Zn	72	1	45.98	45.98	ppb	0.59	3600	
75	As	72	1	6.06	6.06	ppb	1.26	3600	
78	Se	72	1	0.60	0.60	ppb	2.00	3600	
95	Mo	72	1	0.57	0.57	ppb	4.48	3600	
107	Ag	115	1	0.05	0.05	ppb	7.39	3600	
111	Cd	115	1	0.27	0.27	ppb	15.55	3600	
118	Sn	115	1	0.27	0.27	ppb	10.51	3600	
121	Sb	115	1	0.06	0.06	ppb	1.42	3600	
137	Ba	115	1	120.20	120.20	ppb	1.60	3600	
205	Tl	165	1	0.09	0.09	ppb	2.15	3600	
208	Pb	165	1	5.39	5.39	ppb	1.22	3600	
232	Th	165	1	3.20	3.20	ppb	1.53	1000	
238	U	165	1	0.53	0.53	ppb	0.89	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	356296	1.48	398260	89.5	30 - 120	
45	Sc	1	2169438	0.76	2300683	94.3	30 - 120	
72	Ge	1	1302279	0.42	1383338	94.1	30 - 120	
115	In	1	3786300	1.10	4023995	94.1	30 - 120	
165	Ho	1	7166178	0.85	7427449	96.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\220_CCV.D\220_CCV.D#
Date Acquired:	Nov 16 2011 09:51 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.37	ppb	5.24	50	106.7	90 - 110	
51	V	72	1	51.52	ppb	1.37	50	103.0	90 - 110	
52	Cr	72	1	51.72	ppb	1.14	50	103.4	90 - 110	
55	Mn	72	1	50.64	ppb	1.05	50	101.3	90 - 110	
59	Co	72	1	51.32	ppb	0.39	50	102.6	90 - 110	
60	Ni	72	1	50.29	ppb	0.78	50	100.6	90 - 110	
63	Cu	72	1	49.40	ppb	0.25	50	98.8	90 - 110	
66	Zn	72	1	50.27	ppb	1.42	50	100.5	90 - 110	
75	As	72	1	50.74	ppb	0.98	50	101.5	90 - 110	
78	Se	72	1	50.76	ppb	1.71	50	101.5	90 - 110	
95	Mo	72	1	50.06	ppb	1.46	50	100.1	90 - 110	
107	Ag	115	1	51.06	ppb	1.50	50	102.1	90 - 110	
111	Cd	115	1	50.69	ppb	0.08	50	101.4	90 - 110	
118	Sn	115	1	49.51	ppb	0.38	50	99.0	90 - 110	
121	Sb	115	1	48.63	ppb	1.14	50	97.3	90 - 110	
137	Ba	115	1	51.42	ppb	0.71	50	102.8	90 - 110	
205	Tl	165	1	52.13	ppb	0.50	50	104.3	90 - 110	
208	Pb	165	1	50.65	ppb	0.97	50	101.3	90 - 110	
232	Th	165	1	52.09	ppb	0.57	50	104.2	90 - 110	
238	U	165	1	51.96	ppb	0.99	50	103.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	365062	1.71	398260	91.7	30 - 120	
45	Sc	1	2194228	0.52	2300683	95.4	30 - 120	
72	Ge	1	1333681	0.54	1383338	96.4	30 - 120	
115	In	1	3922199	0.73	4023995	97.5	30 - 120	
165	Ho	1	7194016	1.05	7427449	96.9	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\221_CCB.D\221_CCB.D#
Date Acquired:	Nov 16 2011 09:54 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	86.60	1.00	
51	V	72	1	0.013	ppb	53.24	1.00	
52	Cr	72	1	-0.003	ppb	108.28	1.00	
55	Mn	72	1	-0.010	ppb	105.89	1.00	
59	Co	72	1	0.005	ppb	46.87	1.00	
60	Ni	72	1	0.023	ppb	13.79	1.00	
63	Cu	72	1	0.002	ppb	316.62	1.00	
66	Zn	72	1	0.058	ppb	10.35	1.00	
75	As	72	1	-0.004	ppb	147.96	1.00	
78	Se	72	1	0.011	ppb	1476.80	1.00	
95	Mo	72	1	0.001	ppb	555.99	1.00	
107	Ag	115	1	0.009	ppb	4.39	1.00	
111	Cd	115	1	0.007	ppb	65.05	1.00	
118	Sn	115	1	0.040	ppb	14.85	1.00	
121	Sb	115	1	0.012	ppb	2.60	1.00	
137	Ba	115	1	-0.001	ppb	340.66	1.00	
205	Tl	165	1	0.011	ppb	8.34	1.00	
208	Pb	165	1	0.006	ppb	4.47	1.00	
232	Th	165	1	0.015	ppb	3.42	1.00	
238	U	165	1	0.010	ppb	14.80	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	371646	0.89	398260	93.3	30 - 120	
45	Sc	1	2262985	0.42	2300683	98.4	30 - 120	
72	Ge	1	1352038	1.13	1383338	97.7	30 - 120	
115	In	1	3969363	0.50	4023995	98.6	30 - 120	
165	Ho	1	7337758	0.49	7427449	98.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\222_BLK.D\222_BLK.D#
Date Acquired:	Nov 16 2011 09:57 pm
Operator:	TEL
Sample Name:	mb 280-94446/1-a
Misc Info:	BLANK 94446 Soil/DoD4 6020
Vial Number:	4212
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.018	ppb	173.18	2.00	
51	V	72	1	0.025	ppb	56.31	2.00	
52	Cr	72	1	0.277	ppb	4.75	2.00	
55	Mn	72	1	-0.001	ppb	1023.50	2.00	
59	Co	72	1	0.002	ppb	101.90	2.00	
60	Ni	72	1	0.089	ppb	6.47	2.00	
63	Cu	72	1	0.196	ppb	10.54	2.00	
66	Zn	72	1	0.670	ppb	5.78	2.00	
75	As	72	1	0.003	ppb	141.58	2.00	
78	Se	72	1	0.015	ppb	433.60	2.00	
95	Mo	72	1	-0.007	ppb	43.81	2.00	
107	Ag	115	1	0.006	ppb	11.55	2.00	
111	Cd	115	1	0.007	ppb	35.06	2.00	
118	Sn	115	1	0.058	ppb	19.42	2.00	
121	Sb	115	1	0.006	ppb	21.28	2.00	
137	Ba	115	1	1.395	ppb	2.10	2.00	
205	Tl	165	1	0.005	ppb	17.18	2.00	
208	Pb	165	1	0.035	ppb	3.16	2.00	
232	Th	165	1	0.009	ppb	6.10	2.00	
238	U	165	1	0.007	ppb	11.15	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	373177	0.84	398260	93.7	30 - 120	
45	Sc	1	2269486	1.81	2300683	98.6	30 - 120	
72	Ge	1	1339291	0.14	1383338	96.8	30 - 120	
115	In	1	3956410	0.63	4023995	98.3	30 - 120	
165	Ho	1	7284308	0.18	7427449	98.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\223_LCS.D\223_LCS.D#
Date Acquired:	Nov 16 2011 10:00 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	lcs 280-94446/2-a
Misc Info:	LCS
Vial Number:	4301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	38.48	1.00	40	96.2	80 - 120	
51 V	72	1	36.98	0.18	40	92.5	80 - 120	
52 Cr	72	1	37.91	0.33	40	94.8	80 - 120	
55 Mn	72	1	37.07	1.00	40	92.7	80 - 120	
59 Co	72	1	38.47	0.69	40	96.2	80 - 120	
60 Ni	72	1	37.94	0.13	40	94.9	80 - 120	
63 Cu	72	1	37.64	0.45	40	94.1	80 - 120	
66 Zn	72	1	36.88	0.30	40	92.2	80 - 120	
75 As	72	1	36.92	0.50	40	92.3	80 - 120	
78 Se	72	1	36.67	3.53	40	91.7	80 - 120	
95 Mo	72	1	192.50	0.56	40	481.3	80 - 120	
107 Ag	115	1	37.31	0.36	40	93.3	80 - 120	
111 Cd	115	1	38.40	0.83	40	96.0	80 - 120	
118 Sn	115	1	377.90	1.38	40	944.8	80 - 120	
121 Sb	115	1	93.62	0.29	40	234.1	80 - 120	
137 Ba	115	1	38.89	0.72	40	97.2	80 - 120	
205 Tl	165	1	38.89	0.80	40	97.2	80 - 120	
208 Pb	165	1	37.51	0.69	40	93.8	80 - 120	
232 Th	165	1	39.05	1.24	40	97.6	80 - 120	
238 U	165	1	39.06	0.89	40	97.7	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	369671	1.06	398260	92.8	30 - 120	
45 Sc	1	2215538	1.39	2300683	96.3	30 - 120	
72 Ge	1	1333194	0.46	1383338	96.4	30 - 120	
115 In	1	3926959	0.28	4023995	97.6	30 - 120	
165 Ho	1	7301510	0.58	7427449	98.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\224SMPL.D\224SMPL.D#
Date Acquired:	Nov 16 2011 10:03 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-b-11-a
Misc Info:	
Vial Number:	4302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.33	0.33	ppb	20.33	3600	
51	V	72	1	30.94	30.94	ppb	0.78	3600	
52	Cr	72	1	17.30	17.30	ppb	1.46	3600	
55	Mn	72	1	571.50	571.50	ppb	1.39	18000	
59	Co	72	1	9.31	9.31	ppb	0.74	3600	
60	Ni	72	1	24.46	24.46	ppb	0.73	3600	
63	Cu	72	1	10.92	10.92	ppb	1.73	3600	
66	Zn	72	1	45.89	45.89	ppb	0.54	3600	
75	As	72	1	6.40	6.40	ppb	0.95	3600	
78	Se	72	1	0.76	0.76	ppb	33.76	3600	
95	Mo	72	1	0.54	0.54	ppb	3.49	3600	
107	Ag	115	1	0.06	0.06	ppb	2.56	3600	
111	Cd	115	1	0.37	0.37	ppb	7.15	3600	
118	Sn	115	1	0.42	0.42	ppb	2.73	3600	
121	Sb	115	1	0.08	0.08	ppb	9.80	3600	
137	Ba	115	1	156.10	156.10	ppb	1.04	3600	
205	Tl	165	1	0.10	0.10	ppb	5.13	3600	
208	Pb	165	1	5.98	5.98	ppb	0.53	3600	
232	Th	165	1	2.49	2.49	ppb	1.28	1000	
238	U	165	1	0.53	0.53	ppb	1.46	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	363435	1.31	398260	91.3	30 - 120	
45	Sc	1	2221607	0.64	2300683	96.6	30 - 120	
72	Ge	1	1324029	0.89	1383338	95.7	30 - 120	
115	In	1	3867874	0.71	4023995	96.1	30 - 120	
165	Ho	1	7251856	0.40	7427449	97.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\225SMPL.D\225SMPL.D#
Date Acquired:	Nov 16 2011 10:06 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-b-12-b
Misc Info:	
Vial Number:	4303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.28	0.28	ppb	43.94	3600	
51	V	72	1	36.34	36.34	ppb	0.20	3600	
52	Cr	72	1	20.71	20.71	ppb	0.58	3600	
55	Mn	72	1	579.90	579.90	ppb	0.15	18000	
59	Co	72	1	10.24	10.24	ppb	0.29	3600	
60	Ni	72	1	27.19	27.19	ppb	0.23	3600	
63	Cu	72	1	12.76	12.76	ppb	0.22	3600	
66	Zn	72	1	51.66	51.66	ppb	0.48	3600	
75	As	72	1	6.30	6.30	ppb	2.11	3600	
78	Se	72	1	0.32	0.32	ppb	23.59	3600	
95	Mo	72	1	0.63	0.63	ppb	2.77	3600	
107	Ag	115	1	0.06	0.06	ppb	2.43	3600	
111	Cd	115	1	0.37	0.37	ppb	4.71	3600	
118	Sn	115	1	0.29	0.29	ppb	5.89	3600	
121	Sb	115	1	0.07	0.07	ppb	17.22	3600	
137	Ba	115	1	146.10	146.10	ppb	0.25	3600	
205	Tl	165	1	0.08	0.08	ppb	2.13	3600	
208	Pb	165	1	6.44	6.44	ppb	0.87	3600	
232	Th	165	1	3.06	3.06	ppb	1.69	1000	
238	U	165	1	0.51	0.51	ppb	2.11	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	352554	0.31	398260	88.5	30 - 120	
45	Sc	1	2180354	0.64	2300683	94.8	30 - 120	
72	Ge	1	1292349	0.40	1383338	93.4	30 - 120	
115	In	1	3789727	0.42	4023995	94.2	30 - 120	
165	Ho	1	7161205	0.99	7427449	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\226SMPL.D\226SMPL.D#
Date Acquired: Nov 16 2011 10:09 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-a-13-a
Misc Info:
Vial Number: 4304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.17	0.17	ppb	54.18	3600	
51	V	72	1	21.98	21.98	ppb	0.88	3600	
52	Cr	72	1	13.04	13.04	ppb	1.71	3600	
55	Mn	72	1	248.70	248.70	ppb	2.29	18000	
59	Co	72	1	7.98	7.98	ppb	1.03	3600	
60	Ni	72	1	19.88	19.88	ppb	1.16	3600	
63	Cu	72	1	9.70	9.70	ppb	1.29	3600	
66	Zn	72	1	33.19	33.19	ppb	1.01	3600	
75	As	72	1	4.55	4.55	ppb	1.63	3600	
78	Se	72	1	0.67	0.67	ppb	85.41	3600	
95	Mo	72	1	0.33	0.33	ppb	4.88	3600	
107	Ag	115	1	0.04	0.04	ppb	13.80	3600	
111	Cd	115	1	0.29	0.29	ppb	8.44	3600	
118	Sn	115	1	0.19	0.19	ppb	6.98	3600	
121	Sb	115	1	0.08	0.08	ppb	7.00	3600	
137	Ba	115	1	111.70	111.70	ppb	1.23	3600	
205	Tl	165	1	0.07	0.07	ppb	5.75	3600	
208	Pb	165	1	4.61	4.61	ppb	1.16	3600	
232	Th	165	1	2.41	2.41	ppb	2.07	1000	
238	U	165	1	0.61	0.61	ppb	1.20	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357384	0.46	398260	89.7	30 - 120	
45	Sc	1	2180762	0.81	2300683	94.8	30 - 120	
72	Ge	1	1299723	0.26	1383338	94.0	30 - 120	
115	In	1	3836147	0.39	4023995	95.3	30 - 120	
165	Ho	1	7232526	0.52	7427449	97.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\227SMPL.D\227SMPL.D#
Date Acquired: Nov 16 2011 10:12 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-a-14-a
Misc Info:
Vial Number: 4305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.35	0.35	ppb	30.81	3600	
51	V	72	1	39.02	39.02	ppb	1.05	3600	
52	Cr	72	1	22.70	22.70	ppb	0.59	3600	
55	Mn	72	1	449.40	449.40	ppb	0.77	18000	
59	Co	72	1	11.86	11.86	ppb	0.12	3600	
60	Ni	72	1	31.00	31.00	ppb	0.50	3600	
63	Cu	72	1	17.02	17.02	ppb	0.63	3600	
66	Zn	72	1	61.77	61.77	ppb	0.55	3600	
75	As	72	1	10.93	10.93	ppb	0.67	3600	
78	Se	72	1	0.76	0.76	ppb	36.58	3600	
95	Mo	72	1	0.79	0.79	ppb	5.16	3600	
107	Ag	115	1	0.08	0.08	ppb	6.49	3600	
111	Cd	115	1	0.46	0.46	ppb	4.69	3600	
118	Sn	115	1	0.25	0.25	ppb	4.56	3600	
121	Sb	115	1	0.06	0.06	ppb	7.72	3600	
137	Ba	115	1	175.60	175.60	ppb	1.06	3600	
205	Tl	165	1	0.10	0.10	ppb	1.11	3600	
208	Pb	165	1	7.13	7.13	ppb	0.64	3600	
232	Th	165	1	4.12	4.12	ppb	1.48	1000	
238	U	165	1	0.64	0.64	ppb	1.06	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	351400	1.34	398260	88.2	30 - 120	
45	Sc	1	2149552	0.78	2300683	93.4	30 - 120	
72	Ge	1	1271071	0.41	1383338	91.9	30 - 120	
115	In	1	3768191	0.61	4023995	93.6	30 - 120	
165	Ho	1	7157506	0.51	7427449	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\228SMPL.D\228SMPL.D#
Date Acquired:	Nov 16 2011 10:15 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-a-15-b
Misc Info:	
Vial Number:	4306
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.80	0.80	ppb	26.33	3600	
51	V	72	1	78.70	78.70	ppb	0.90	3600	
52	Cr	72	1	51.57	51.57	ppb	0.98	3600	
55	Mn	72	1	953.10	953.10	ppb	1.18	18000	
59	Co	72	1	19.86	19.86	ppb	1.02	3600	
60	Ni	72	1	58.01	58.01	ppb	0.55	3600	
63	Cu	72	1	49.52	49.52	ppb	0.68	3600	
66	Zn	72	1	149.80	149.80	ppb	0.77	3600	
75	As	72	1	18.86	18.86	ppb	1.13	3600	
78	Se	72	1	2.21	2.21	ppb	11.22	3600	
95	Mo	72	1	1.39	1.39	ppb	1.35	3600	
107	Ag	115	1	0.27	0.27	ppb	6.01	3600	
111	Cd	115	1	1.07	1.07	ppb	4.52	3600	
118	Sn	115	1	0.30	0.30	ppb	11.24	3600	
121	Sb	115	1	0.09	0.09	ppb	3.14	3600	
137	Ba	115	1	423.80	423.80	ppb	1.45	3600	
205	Tl	165	1	0.21	0.21	ppb	2.15	3600	
208	Pb	165	1	20.27	20.27	ppb	0.36	3600	
232	Th	165	1	7.94	7.94	ppb	0.59	1000	
238	U	165	1	1.46	1.46	ppb	0.04	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	338884	0.32	398260	85.1	30 - 120	
45	Sc	1	2106810	0.59	2300683	91.6	30 - 120	
72	Ge	1	1221424	0.86	1383338	88.3	30 - 120	
115	In	1	3640783	0.45	4023995	90.5	30 - 120	
165	Ho	1	6880948	0.47	7427449	92.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\229SMPL.D\229SMPL.D#
Date Acquired:	Nov 16 2011 10:18 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-b-16-b
Misc Info:	
Vial Number:	4307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.65	0.65	ppb	14.60	3600	
51	V	72	1	62.66	62.66	ppb	3.58	3600	
52	Cr	72	1	36.72	36.72	ppb	2.60	3600	
55	Mn	72	1	555.20	555.20	ppb	3.08	18000	
59	Co	72	1	15.86	15.86	ppb	2.00	3600	
60	Ni	72	1	44.74	44.74	ppb	2.28	3600	
63	Cu	72	1	35.19	35.19	ppb	2.15	3600	
66	Zn	72	1	118.50	118.50	ppb	2.65	3600	
75	As	72	1	13.39	13.39	ppb	1.80	3600	
78	Se	72	1	1.32	1.32	ppb	18.11	3600	
95	Mo	72	1	0.89	0.89	ppb	9.24	3600	
107	Ag	115	1	0.19	0.19	ppb	4.08	3600	
111	Cd	115	1	0.77	0.77	ppb	4.07	3600	
118	Sn	115	1	0.52	0.52	ppb	7.49	3600	
121	Sb	115	1	0.07	0.07	ppb	13.57	3600	
137	Ba	115	1	303.60	303.60	ppb	4.28	3600	
205	Tl	165	1	0.17	0.17	ppb	4.40	3600	
208	Pb	165	1	19.88	19.88	ppb	5.11	3600	
232	Th	165	1	5.76	5.76	ppb	5.13	1000	
238	U	165	1	1.00	1.00	ppb	4.52	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	334366	2.65	398260	84.0	30 - 120	
45	Sc	1	2073905	3.68	2300683	90.1	30 - 120	
72	Ge	1	1232013	2.13	1383338	89.1	30 - 120	
115	In	1	3580755	3.93	4023995	89.0	30 - 120	
165	Ho	1	6846893	4.47	7427449	92.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\230_CCV.D\230_CCV.D#
Date Acquired:	Nov 16 2011 10:20 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.07	ppb	2.13	50	106.1	90 - 110	
51	V	72	1	51.55	ppb	0.73	50	103.1	90 - 110	
52	Cr	72	1	52.00	ppb	1.77	50	104.0	90 - 110	
55	Mn	72	1	51.35	ppb	1.87	50	102.7	90 - 110	
59	Co	72	1	52.11	ppb	0.83	50	104.2	90 - 110	
60	Ni	72	1	50.48	ppb	0.73	50	101.0	90 - 110	
63	Cu	72	1	49.95	ppb	0.87	50	99.9	90 - 110	
66	Zn	72	1	50.68	ppb	0.79	50	101.4	90 - 110	
75	As	72	1	50.99	ppb	0.79	50	102.0	90 - 110	
78	Se	72	1	51.65	ppb	3.63	50	103.3	90 - 110	
95	Mo	72	1	50.67	ppb	1.00	50	101.3	90 - 110	
107	Ag	115	1	51.66	ppb	0.88	50	103.3	90 - 110	
111	Cd	115	1	50.73	ppb	0.78	50	101.5	90 - 110	
118	Sn	115	1	49.54	ppb	1.13	50	99.1	90 - 110	
121	Sb	115	1	48.63	ppb	0.69	50	97.3	90 - 110	
137	Ba	115	1	51.35	ppb	0.79	50	102.7	90 - 110	
205	Tl	165	1	52.47	ppb	1.64	50	104.9	90 - 110	
208	Pb	165	1	50.50	ppb	0.77	50	101.0	90 - 110	
232	Th	165	1	51.60	ppb	1.60	50	103.2	90 - 110	
238	U	165	1	51.75	ppb	1.26	50	103.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	357096	1.11	398260	89.7	30 - 120	
45	Sc	1	2173298	0.68	2300683	94.5	30 - 120	
72	Ge	1	1296766	0.36	1383338	93.7	30 - 120	
115	In	1	3857227	0.58	4023995	95.9	30 - 120	
165	Ho	1	7187314	0.74	7427449	96.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\231_CCB.D\231_CCB.D#
Date Acquired: Nov 16 2011 10:23 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	86.57	1.00	
51	V	72	1	0.021	ppb	60.71	1.00	
52	Cr	72	1	0.003	ppb	288.04	1.00	
55	Mn	72	1	0.003	ppb	633.55	1.00	
59	Co	72	1	0.006	ppb	24.34	1.00	
60	Ni	72	1	0.029	ppb	23.11	1.00	
63	Cu	72	1	0.005	ppb	114.33	1.00	
66	Zn	72	1	0.066	ppb	11.74	1.00	
75	As	72	1	0.005	ppb	101.83	1.00	
78	Se	72	1	0.198	ppb	147.57	1.00	
95	Mo	72	1	-0.003	ppb	202.98	1.00	
107	Ag	115	1	0.008	ppb	14.14	1.00	
111	Cd	115	1	0.007	ppb	47.67	1.00	
118	Sn	115	1	0.040	ppb	8.75	1.00	
121	Sb	115	1	0.012	ppb	24.40	1.00	
137	Ba	115	1	0.013	ppb	22.12	1.00	
205	Tl	165	1	0.011	ppb	6.57	1.00	
208	Pb	165	1	0.007	ppb	16.60	1.00	
232	Th	165	1	0.015	ppb	2.87	1.00	
238	U	165	1	0.009	ppb	8.82	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	365231	0.06	398260	91.7	30 - 120	
45	Sc	1	2203369	0.70	2300683	95.8	30 - 120	
72	Ge	1	1328446	0.57	1383338	96.0	30 - 120	
115	In	1	3881311	0.57	4023995	96.5	30 - 120	
165	Ho	1	7152456	0.49	7427449	96.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\232AREF.D\232AREF.D#
Date Acquired:	Nov 16 2011 10:26 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-a-17-d
Misc Info:	
Vial Number:	4308
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.72	0.72	ppb	18.13	3600	
51	V	72	1	75.16	75.16	ppb	1.92	3600	
52	Cr	72	1	47.07	47.07	ppb	1.69	3600	
55	Mn	72	1	851.50	851.50	ppb	0.78	18000	
59	Co	72	1	19.13	19.13	ppb	0.69	3600	
60	Ni	72	1	55.36	55.36	ppb	0.23	3600	
63	Cu	72	1	47.18	47.18	ppb	1.18	3600	
66	Zn	72	1	135.90	135.90	ppb	0.57	3600	
75	As	72	1	18.19	18.19	ppb	1.64	3600	
78	Se	72	1	1.97	1.97	ppb	29.07	3600	
95	Mo	72	1	1.38	1.38	ppb	1.99	3600	
107	Ag	115	1	0.22	0.22	ppb	1.58	3600	
111	Cd	115	1	0.93	0.93	ppb	6.50	3600	
118	Sn	115	1	0.29	0.29	ppb	3.43	3600	
121	Sb	115	1	0.11	0.11	ppb	4.08	3600	
137	Ba	115	1	401.90	401.90	ppb	0.83	3600	
205	Tl	165	1	0.21	0.21	ppb	1.72	3600	
208	Pb	165	1	15.20	15.20	ppb	0.33	3600	
232	Th	165	1	7.89	7.89	ppb	0.68	1000	
238	U	165	1	1.44	1.44	ppb	1.11	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	336051	1.19	398260	84.4	30 - 120	
45	Sc	1	2118102	1.04	2300683	92.1	30 - 120	
72	Ge	1	1228567	0.81	1383338	88.8	30 - 120	
115	In	1	3630857	0.59	4023995	90.2	30 - 120	
165	Ho	1	6952798	0.52	7427449	93.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\233SDIL.D\233SDIL.D#		
Date Acquired:	Nov 16 2011 10:29 pm	**QC Summary:**	
Acq. Method:	NormISIS.M	**Analytes:**	**Pass**
Operator:	TEL	**ISTD:**	**Pass**
Sample Name:	280-22232-a-17-d SD@5		
Misc Info:	SERIAL DILUTION		
Vial Number:	4309		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 07:29 pm		
Sample Type:	SDIL		
Dilution Factor:	1.00		

Dilution Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\232AREF.D\232AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.17	ppb	19.62	0.14	116.5	90 - 110	
51	V	72	1	14.93	ppb	0.66	15.03	99.3	90 - 110	
52	Cr	72	1	9.38	ppb	0.58	9.41	99.7	90 - 110	
55	Mn	72	1	174.80	ppb	0.87	170.30	102.6	90 - 110	
59	Co	72	1	3.95	ppb	1.21	3.83	103.3	90 - 110	
60	Ni	72	1	11.44	ppb	2.03	11.07	103.3	90 - 110	
63	Cu	72	1	9.93	ppb	1.87	9.44	105.3	90 - 110	
66	Zn	72	1	28.79	ppb	1.15	27.18	105.9	90 - 110	
75	As	72	1	3.82	ppb	3.02	3.64	105.0	90 - 110	
78	Se	72	1	0.34	ppb	45.85	0.39	86.2	90 - 110	
95	Mo	72	1	0.26	ppb	0.49	0.28	95.3	90 - 110	
107	Ag	115	1	0.05	ppb	6.36	0.04	108.4	90 - 110	
111	Cd	115	1	0.20	ppb	14.08	0.19	105.7	90 - 110	
118	Sn	115	1	0.11	ppb	5.84	0.06	180.9	90 - 110	
121	Sb	115	1	0.03	ppb	16.05	0.02	119.7	90 - 110	
137	Ba	115	1	78.87	ppb	0.39	80.38	98.1	90 - 110	
205	Tl	165	1	0.04	ppb	3.11	0.04	106.0	90 - 110	
208	Pb	165	1	3.15	ppb	0.71	3.04	103.5	90 - 110	
232	Th	165	1	1.58	ppb	0.92	1.58	100.4	90 - 110	
238	U	165	1	0.30	ppb	0.97	0.29	103.4	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	351424	0.82	398260	88.2	30 - 120	
45	Sc	1	2157372	0.16	2300683	93.8	30 - 120	
72	Ge	1	1286897	1.14	1383338	93.0	30 - 120	
115	In	1	3778114	0.22	4023995	93.9	30 - 120	
165	Ho	1	7162192	0.32	7427449	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\234PDS.D\234PDS.D#	
Date Acquired:	Nov 16 2011 10:32 pm	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	TEL	**ISTD: Pass**
Sample Name:	280-22232-a-17-d PDS	
Misc Info:	POST DIGESTION SPIKE	
Vial Number:	4310	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 16 2011 07:29 pm	
Sample Type:	PDS	
Prep Dil. Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	198.00	0.72	ppb	1.97	200	98.6	75 - 125	
51 V	72	1	251.60	75.16	ppb	0.27	200	91.4	75 - 125	
52 Cr	72	1	228.30	47.07	ppb	1.11	200	92.4	75 - 125	
55 Mn	72	1	958.20	851.50	ppb	0.40	200	91.1	75 - 125	
59 Co	72	1	199.10	19.13	ppb	0.85	200	90.9	75 - 125	
60 Ni	72	1	242.20	55.36	ppb	1.04	200	94.8	75 - 125	
63 Cu	72	1	221.70	47.18	ppb	1.34	200	89.7	75 - 125	
66 Zn	72	1	304.20	135.90	ppb	0.36	200	90.6	75 - 125	
75 As	72	1	207.20	18.19	ppb	0.28	200	95.0	75 - 125	
78 Se	72	1	189.30	1.97	ppb	2.16	200	93.7	75 - 125	
95 Mo	72	1	201.40	1.38	ppb	1.35	200	100.0	75 - 125	
107 Ag	115	1	46.84	0.22	ppb	0.92	50	93.3	75 - 125	
111 Cd	115	1	191.00	0.93	ppb	0.85	200	95.1	75 - 125	
118 Sn	115	1	193.20	0.29	ppb	1.99	200	96.5	75 - 125	
121 Sb	115	1	186.50	0.11	ppb	1.47	200	93.2	75 - 125	
137 Ba	115	1	558.80	401.90	ppb	0.90	200	92.8	75 - 125	
205 Tl	165	1	186.70	0.21	ppb	0.77	200	93.3	75 - 125	
208 Pb	165	1	195.00	15.20	ppb	1.15	200	90.6	75 - 125	
232 Th	165	1	7.21	7.89	ppb	0.66	200	3.5	75 - 125	
238 U	165	1	191.70	1.44	ppb	0.91	200	95.2	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	334151	0.65	398260	83.9	30 - 120	
45 Sc	1	2082870	0.78	2300683	90.5	30 - 120	
72 Ge	1	1199256	0.08	1383338	86.7	30 - 120	
115 In	1	3585615	0.86	4023995	89.1	30 - 120	
165 Ho	1	6822564	0.35	7427449	91.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\235_MS.D\235_MS.D#		
Date Acquired:	Nov 16 2011 10:35 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	TEL	ISTD:	Pass
Sample Name:	280-22232-a-17-e ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	4311		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 16 2011 07:29 pm		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	40.48	0.72	ppb	4.07	40	99.4	50 - 150	
51 V	72	1	137.30	75.16	ppb	0.05	40	119.2	50 - 150	
52 Cr	72	1	97.22	47.07	ppb	1.62	40	111.7	50 - 150	
55 Mn	72	1	845.30	851.50	ppb	1.48	40	94.8	50 - 150	
59 Co	72	1	56.39	19.13	ppb	0.57	40	95.4	50 - 150	
60 Ni	72	1	89.62	55.36	ppb	1.33	40	94.0	50 - 150	
63 Cu	72	1	82.80	47.18	ppb	1.75	40	95.0	50 - 150	
66 Zn	72	1	167.50	135.90	ppb	1.13	40	95.2	50 - 150	
75 As	72	1	54.50	18.19	ppb	0.61	40	93.7	50 - 150	
78 Se	72	1	39.13	1.97	ppb	2.61	40	93.2	50 - 150	
95 Mo	72	1	190.60	1.38	ppb	0.33	40	460.6	50 - 150	
107 Ag	115	1	35.53	0.22	ppb	0.74	40	88.3	50 - 150	
111 Cd	115	1	39.62	0.93	ppb	0.74	40	96.8	50 - 150	
118 Sn	115	1	265.50	0.29	ppb	0.80	40	658.9	50 - 150	
121 Sb	115	1	27.01	0.11	ppb	0.16	40	67.3	50 - 150	
137 Ba	115	1	529.10	401.90	ppb	1.82	40	119.7	50 - 150	
205 Tl	165	1	38.31	0.21	ppb	1.56	40	95.3	50 - 150	
208 Pb	165	1	51.10	15.20	ppb	1.06	40	92.6	50 - 150	
232 Th	165	1	47.34	7.89	ppb	0.51	40	98.9	50 - 150	
238 U	165	1	40.92	1.44	ppb	0.99	40	98.7	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	327041	0.94	398260	82.1	30 - 120	
45 Sc	1	2068974	0.11	2300683	89.9	30 - 120	
72 Ge	1	1201923	0.79	1383338	86.9	30 - 120	
115 In	1	3532600	0.39	4023995	87.8	30 - 120	
165 Ho	1	6742041	1.11	7427449	90.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\236_MSD.D\236_MSD.D#
Date Acquired:	Nov 16 2011 10:38 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-a-17-f msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	4312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG111611C.B\235_MS.D\235_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	40.16	ppb	1.82	40.48	0.79	20	
51	V	72	1	144.10	ppb	1.42	137.30	4.83	20	
52	Cr	72	1	100.20	ppb	1.16	97.22	3.02	20	
55	Mn	72	1	941.80	ppb	1.40	845.30	10.80	20	
59	Co	72	1	57.83	ppb	1.09	56.39	2.52	20	
60	Ni	72	1	94.04	ppb	0.80	89.62	4.81	20	
63	Cu	72	1	86.03	ppb	0.83	82.80	3.83	20	
66	Zn	72	1	180.00	ppb	0.65	167.50	7.19	20	
75	As	72	1	55.23	ppb	0.60	54.50	1.33	20	
78	Se	72	1	37.95	ppb	3.72	39.13	3.06	20	
95	Mo	72	1	190.80	ppb	1.49	190.60	0.10	20	
107	Ag	115	1	35.18	ppb	0.40	35.53	0.99	20	
111	Cd	115	1	39.49	ppb	1.14	39.62	0.33	20	
118	Sn	115	1	265.50	ppb	0.64	265.50	0.00	20	
121	Sb	115	1	27.93	ppb	0.67	27.01	3.35	20	
137	Ba	115	1	554.00	ppb	0.73	529.10	4.60	20	
205	Tl	165	1	38.16	ppb	0.34	38.31	0.39	20	
208	Pb	165	1	52.04	ppb	1.37	51.10	1.82	20	
232	Th	165	1	47.44	ppb	0.98	47.34	0.21	20	
238	U	165	1	40.03	ppb	1.19	40.92	2.20	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	324012	0.61	398260	81.4	30 - 120	
45	Sc	1	2056432	0.38	2300683	89.4	30 - 120	
72	Ge	1	1186791	0.16	1383338	85.8	30 - 120	
115	In	1	3479573	0.70	4023995	86.5	30 - 120	
165	Ho	1	6579945	1.01	7427449	88.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\237SMPL.D\237SMPL.D#
Date Acquired:	Nov 16 2011 10:41 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-d-18-d
Misc Info:	
Vial Number:	4401
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.60	0.60	ppb	14.88	3600	
51	V	72	1	56.44	56.44	ppb	1.63	3600	
52	Cr	72	1	33.41	33.41	ppb	0.79	3600	
55	Mn	72	1	641.20	641.20	ppb	1.46	18000	
59	Co	72	1	14.85	14.85	ppb	1.51	3600	
60	Ni	72	1	42.64	42.64	ppb	0.80	3600	
63	Cu	72	1	32.96	32.96	ppb	1.28	3600	
66	Zn	72	1	101.40	101.40	ppb	1.29	3600	
75	As	72	1	12.96	12.96	ppb	0.94	3600	
78	Se	72	1	1.66	1.66	ppb	34.44	3600	
95	Mo	72	1	1.06	1.06	ppb	5.20	3600	
107	Ag	115	1	0.18	0.18	ppb	5.68	3600	
111	Cd	115	1	0.65	0.65	ppb	4.78	3600	
118	Sn	115	1	0.38	0.38	ppb	4.76	3600	
121	Sb	115	1	0.09	0.09	ppb	3.33	3600	
137	Ba	115	1	298.70	298.70	ppb	2.48	3600	
205	Tl	165	1	0.15	0.15	ppb	3.48	3600	
208	Pb	165	1	10.68	10.68	ppb	0.73	3600	
232	Th	165	1	5.58	5.58	ppb	0.51	1000	
238	U	165	1	1.04	1.04	ppb	0.63	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	332406	0.18	398260	83.5	30 - 120	
45	Sc	1	2071728	2.49	2300683	90.0	30 - 120	
72	Ge	1	1216812	0.99	1383338	88.0	30 - 120	
115	In	1	3599061	1.37	4023995	89.4	30 - 120	
165	Ho	1	6887809	0.99	7427449	92.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\238SMPL.D\238SMPL.D#
Date Acquired:	Nov 16 2011 10:44 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-a-19-b
Misc Info:	
Vial Number:	4402
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.70	0.70	ppb	15.62	3600	
51	V	72	1	77.45	77.45	ppb	1.53	3600	
52	Cr	72	1	48.26	48.26	ppb	3.53	3600	
55	Mn	72	1	880.40	880.40	ppb	1.29	18000	
59	Co	72	1	19.43	19.43	ppb	1.55	3600	
60	Ni	72	1	56.45	56.45	ppb	1.31	3600	
63	Cu	72	1	49.49	49.49	ppb	1.80	3600	
66	Zn	72	1	139.90	139.90	ppb	1.14	3600	
75	As	72	1	18.46	18.46	ppb	3.11	3600	
78	Se	72	1	2.46	2.46	ppb	9.85	3600	
95	Mo	72	1	1.44	1.44	ppb	2.24	3600	
107	Ag	115	1	0.24	0.24	ppb	5.46	3600	
111	Cd	115	1	0.93	0.93	ppb	11.14	3600	
118	Sn	115	1	0.33	0.33	ppb	5.23	3600	
121	Sb	115	1	0.11	0.11	ppb	9.08	3600	
137	Ba	115	1	408.60	408.60	ppb	1.65	3600	
205	Tl	165	1	0.22	0.22	ppb	1.20	3600	
208	Pb	165	1	16.75	16.75	ppb	1.58	3600	
232	Th	165	1	7.86	7.86	ppb	1.66	1000	
238	U	165	1	1.47	1.47	ppb	1.32	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	330760	0.90	398260	83.1	30 - 120	
45	Sc	1	2107275	1.52	2300683	91.6	30 - 120	
72	Ge	1	1220576	1.18	1383338	88.2	30 - 120	
115	In	1	3640856	0.97	4023995	90.5	30 - 120	
165	Ho	1	6853028	1.35	7427449	92.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\239SMPL.D\239SMPL.D#
Date Acquired:	Nov 16 2011 10:47 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-a-20-c
Misc Info:	
Vial Number:	4403
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.58	0.58	ppb	30.35	3600	
51	V	72	1	63.37	63.37	ppb	1.05	3600	
52	Cr	72	1	39.95	39.95	ppb	1.14	3600	
55	Mn	72	1	624.30	624.30	ppb	0.85	18000	
59	Co	72	1	15.78	15.78	ppb	0.86	3600	
60	Ni	72	1	46.71	46.71	ppb	0.78	3600	
63	Cu	72	1	36.02	36.02	ppb	0.42	3600	
66	Zn	72	1	106.40	106.40	ppb	1.33	3600	
75	As	72	1	14.02	14.02	ppb	1.55	3600	
78	Se	72	1	1.54	1.54	ppb	12.95	3600	
95	Mo	72	1	1.04	1.04	ppb	5.83	3600	
107	Ag	115	1	0.16	0.16	ppb	3.87	3600	
111	Cd	115	1	0.71	0.71	ppb	8.21	3600	
118	Sn	115	1	0.30	0.30	ppb	2.31	3600	
121	Sb	115	1	0.08	0.08	ppb	2.36	3600	
137	Ba	115	1	308.00	308.00	ppb	0.87	3600	
205	Tl	165	1	0.17	0.17	ppb	2.54	3600	
208	Pb	165	1	13.81	13.81	ppb	0.72	3600	
232	Th	165	1	6.41	6.41	ppb	0.31	1000	
238	U	165	1	1.12	1.12	ppb	0.73	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	326724	1.02	398260	82.0	30 - 120	
45	Sc	1	2056978	1.29	2300683	89.4	30 - 120	
72	Ge	1	1207380	0.61	1383338	87.3	30 - 120	
115	In	1	3541226	1.29	4023995	88.0	30 - 120	
165	Ho	1	6680246	0.06	7427449	89.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\240_CCV.D\240_CCV.D#
Date Acquired:	Nov 16 2011 10:49 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.06	ppb	1.73	50	104.1	90 - 110	
51	V	72	1	51.31	ppb	1.53	50	102.6	90 - 110	
52	Cr	72	1	52.09	ppb	1.92	50	104.2	90 - 110	
55	Mn	72	1	50.32	ppb	2.29	50	100.6	90 - 110	
59	Co	72	1	51.57	ppb	1.67	50	103.1	90 - 110	
60	Ni	72	1	50.87	ppb	0.69	50	101.7	90 - 110	
63	Cu	72	1	49.69	ppb	0.08	50	99.4	90 - 110	
66	Zn	72	1	50.74	ppb	0.69	50	101.5	90 - 110	
75	As	72	1	50.97	ppb	0.79	50	101.9	90 - 110	
78	Se	72	1	52.03	ppb	1.84	50	104.1	90 - 110	
95	Mo	72	1	50.63	ppb	0.81	50	101.3	90 - 110	
107	Ag	115	1	50.13	ppb	0.40	50	100.3	90 - 110	
111	Cd	115	1	49.66	ppb	1.06	50	99.3	90 - 110	
118	Sn	115	1	48.66	ppb	1.26	50	97.3	90 - 110	
121	Sb	115	1	47.76	ppb	0.57	50	95.5	90 - 110	
137	Ba	115	1	50.54	ppb	0.50	50	101.1	90 - 110	
205	Tl	165	1	51.78	ppb	0.34	50	103.6	90 - 110	
208	Pb	165	1	49.67	ppb	0.98	50	99.3	90 - 110	
232	Th	165	1	51.01	ppb	1.38	50	102.0	90 - 110	
238	U	165	1	51.15	ppb	0.66	50	102.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	349068	0.96	398260	87.6	30 - 120	
45	Sc	1	2128060	0.84	2300683	92.5	30 - 120	
72	Ge	1	1273352	0.27	1383338	92.0	30 - 120	
115	In	1	3844329	0.49	4023995	95.5	30 - 120	
165	Ho	1	6988553	0.46	7427449	94.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\241_CCB.D\241_CCB.D#
Date Acquired:	Nov 16 2011 10:52 pm
Operator:	TEL
Sample Name:	CCB-1131044
Misc Info:	
Vial Number:	1305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	173.24	1.00	
51	V	72	1	0.026	ppb	39.68	1.00	
52	Cr	72	1	0.003	ppb	206.47	1.00	
55	Mn	72	1	0.019	ppb	121.57	1.00	
59	Co	72	1	0.012	ppb	47.43	1.00	
60	Ni	72	1	0.023	ppb	32.60	1.00	
63	Cu	72	1	0.003	ppb	121.69	1.00	
66	Zn	72	1	0.082	ppb	24.31	1.00	
75	As	72	1	0.007	ppb	94.57	1.00	
78	Se	72	1	0.125	ppb	268.69	1.00	
95	Mo	72	1	0.008	ppb	33.55	1.00	
107	Ag	115	1	0.011	ppb	11.30	1.00	
111	Cd	115	1	0.010	ppb	27.25	1.00	
118	Sn	115	1	0.044	ppb	8.98	1.00	
121	Sb	115	1	0.015	ppb	18.45	1.00	
137	Ba	115	1	0.018	ppb	29.86	1.00	
205	Tl	165	1	0.017	ppb	9.00	1.00	
208	Pb	165	1	0.011	ppb	8.34	1.00	
232	Th	165	1	0.018	ppb	12.75	1.00	
238	U	165	1	0.013	ppb	11.18	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	349497	0.25	398260	87.8	30 - 120	
45	Sc	1	2144946	0.62	2300683	93.2	30 - 120	
72	Ge	1	1282878	0.64	1383338	92.7	30 - 120	
115	In	1	3815116	1.90	4023995	94.8	30 - 120	
165	Ho	1	6993843	1.01	7427449	94.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\242SMPL.D\242SMPL.D#
Date Acquired: Nov 16 2011 10:55 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-b-21-d
Misc Info:
Vial Number: 4404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.74	0.74	ppb	8.75	3600	
51	V	72	1	71.33	71.33	ppb	1.40	3600	
52	Cr	72	1	44.40	44.40	ppb	1.08	3600	
55	Mn	72	1	742.70	742.70	ppb	0.44	18000	
59	Co	72	1	18.11	18.11	ppb	1.36	3600	
60	Ni	72	1	52.90	52.90	ppb	1.63	3600	
63	Cu	72	1	46.90	46.90	ppb	1.59	3600	
66	Zn	72	1	142.40	142.40	ppb	0.88	3600	
75	As	72	1	16.58	16.58	ppb	1.45	3600	
78	Se	72	1	2.61	2.61	ppb	14.16	3600	
95	Mo	72	1	1.30	1.30	ppb	2.96	3600	
107	Ag	115	1	0.22	0.22	ppb	2.16	3600	
111	Cd	115	1	1.05	1.05	ppb	2.59	3600	
118	Sn	115	1	0.36	0.36	ppb	5.97	3600	
121	Sb	115	1	0.10	0.10	ppb	5.35	3600	
137	Ba	115	1	377.90	377.90	ppb	0.04	3600	
205	Tl	165	1	0.20	0.20	ppb	1.24	3600	
208	Pb	165	1	17.47	17.47	ppb	0.82	3600	
232	Th	165	1	7.34	7.34	ppb	1.21	1000	
238	U	165	1	1.30	1.30	ppb	0.55	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	327336	0.66	398260	82.2	30 - 120	
45	Sc	1	2068473	0.73	2300683	89.9	30 - 120	
72	Ge	1	1198357	1.40	1383338	86.6	30 - 120	
115	In	1	3563071	0.72	4023995	88.5	30 - 120	
165	Ho	1	6741396	0.50	7427449	90.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\243SMPL.D\243SMPL.D#
Date Acquired:	Nov 16 2011 10:58 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-b-22-d
Misc Info:	
Vial Number:	4405
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.49	0.49	ppb	16.07	3600	
51	V	72	1	57.95	57.95	ppb	2.07	3600	
52	Cr	72	1	35.11	35.11	ppb	1.23	3600	
55	Mn	72	1	649.90	649.90	ppb	1.19	18000	
59	Co	72	1	15.13	15.13	ppb	0.74	3600	
60	Ni	72	1	43.33	43.33	ppb	1.97	3600	
63	Cu	72	1	36.60	36.60	ppb	1.44	3600	
66	Zn	72	1	107.00	107.00	ppb	0.82	3600	
75	As	72	1	13.26	13.26	ppb	1.42	3600	
78	Se	72	1	1.77	1.77	ppb	11.56	3600	
95	Mo	72	1	1.06	1.06	ppb	7.06	3600	
107	Ag	115	1	0.20	0.20	ppb	5.48	3600	
111	Cd	115	1	0.71	0.71	ppb	5.46	3600	
118	Sn	115	1	0.22	0.22	ppb	13.42	3600	
121	Sb	115	1	0.07	0.07	ppb	2.41	3600	
137	Ba	115	1	327.10	327.10	ppb	2.33	3600	
205	Tl	165	1	0.16	0.16	ppb	2.62	3600	
208	Pb	165	1	11.24	11.24	ppb	1.26	3600	
232	Th	165	1	5.91	5.91	ppb	2.04	1000	
238	U	165	1	1.09	1.09	ppb	2.51	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	326360	0.58	398260	81.9	30 - 120	
45	Sc	1	2062312	1.27	2300683	89.6	30 - 120	
72	Ge	1	1203398	0.73	1383338	87.0	30 - 120	
115	In	1	3572486	0.89	4023995	88.8	30 - 120	
165	Ho	1	6776816	0.42	7427449	91.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\244SMPL.D\244SMPL.D#
Date Acquired:	Nov 16 2011 11:01 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-a-23-c
Misc Info:	
Vial Number:	4406
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.43	0.43	ppb	12.27	3600	
51	V	72	1	39.18	39.18	ppb	0.79	3600	
52	Cr	72	1	21.81	21.81	ppb	0.76	3600	
55	Mn	72	1	404.50	404.50	ppb	0.80	18000	
59	Co	72	1	10.71	10.71	ppb	1.27	3600	
60	Ni	72	1	30.46	30.46	ppb	0.82	3600	
63	Cu	72	1	17.31	17.31	ppb	0.44	3600	
66	Zn	72	1	61.47	61.47	ppb	0.88	3600	
75	As	72	1	8.54	8.54	ppb	0.68	3600	
78	Se	72	1	0.72	0.72	ppb	16.62	3600	
95	Mo	72	1	0.48	0.48	ppb	6.94	3600	
107	Ag	115	1	0.09	0.09	ppb	5.84	3600	
111	Cd	115	1	0.44	0.44	ppb	7.08	3600	
118	Sn	115	1	0.20	0.20	ppb	4.75	3600	
121	Sb	115	1	0.06	0.06	ppb	8.30	3600	
137	Ba	115	1	163.10	163.10	ppb	0.48	3600	
205	Tl	165	1	0.10	0.10	ppb	0.33	3600	
208	Pb	165	1	8.50	8.50	ppb	0.70	3600	
232	Th	165	1	3.79	3.79	ppb	1.70	1000	
238	U	165	1	0.56	0.56	ppb	1.25	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	331711	0.80	398260	83.3	30 - 120	
45	Sc	1	2074378	1.41	2300683	90.2	30 - 120	
72	Ge	1	1223160	1.40	1383338	88.4	30 - 120	
115	In	1	3655152	0.43	4023995	90.8	30 - 120	
165	Ho	1	6775185	0.36	7427449	91.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\245SMPL.D\245SMPL.D#
Date Acquired:	Nov 16 2011 11:04 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-d-24-a
Misc Info:	
Vial Number:	4407
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.70	0.70	ppb	9.37	3600	
51	V	72	1	68.35	68.35	ppb	1.80	3600	
52	Cr	72	1	42.73	42.73	ppb	1.17	3600	
55	Mn	72	1	787.70	787.70	ppb	1.68	18000	
59	Co	72	1	17.42	17.42	ppb	1.02	3600	
60	Ni	72	1	50.38	50.38	ppb	1.53	3600	
63	Cu	72	1	44.44	44.44	ppb	0.90	3600	
66	Zn	72	1	121.70	121.70	ppb	1.27	3600	
75	As	72	1	15.94	15.94	ppb	1.46	3600	
78	Se	72	1	1.93	1.93	ppb	2.75	3600	
95	Mo	72	1	1.28	1.28	ppb	2.37	3600	
107	Ag	115	1	0.20	0.20	ppb	3.72	3600	
111	Cd	115	1	0.83	0.83	ppb	10.84	3600	
118	Sn	115	1	0.27	0.27	ppb	3.50	3600	
121	Sb	115	1	0.09	0.09	ppb	6.58	3600	
137	Ba	115	1	367.60	367.60	ppb	0.84	3600	
205	Tl	165	1	0.18	0.18	ppb	3.08	3600	
208	Pb	165	1	13.02	13.02	ppb	0.74	3600	
232	Th	165	1	7.09	7.09	ppb	1.20	1000	
238	U	165	1	1.38	1.38	ppb	1.22	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	327211	0.50	398260	82.2	30 - 120	
45	Sc	1	2039931	0.58	2300683	88.7	30 - 120	
72	Ge	1	1191766	1.11	1383338	86.2	30 - 120	
115	In	1	3510957	0.78	4023995	87.3	30 - 120	
165	Ho	1	6726300	0.62	7427449	90.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\246SMPL.D\246SMPL.D#
Date Acquired:	Nov 16 2011 11:07 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-b-25-a
Misc Info:	
Vial Number:	4408
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.68	0.68	ppb	15.09	3600	
51	V	72	1	57.69	57.69	ppb	2.90	3600	
52	Cr	72	1	34.84	34.84	ppb	1.33	3600	
55	Mn	72	1	659.10	659.10	ppb	1.50	18000	
59	Co	72	1	15.19	15.19	ppb	1.06	3600	
60	Ni	72	1	43.58	43.58	ppb	2.13	3600	
63	Cu	72	1	36.27	36.27	ppb	1.31	3600	
66	Zn	72	1	105.60	105.60	ppb	1.32	3600	
75	As	72	1	13.95	13.95	ppb	0.91	3600	
78	Se	72	1	1.77	1.77	ppb	12.92	3600	
95	Mo	72	1	1.03	1.03	ppb	1.65	3600	
107	Ag	115	1	0.19	0.19	ppb	5.91	3600	
111	Cd	115	1	0.61	0.61	ppb	5.56	3600	
118	Sn	115	1	0.30	0.30	ppb	3.39	3600	
121	Sb	115	1	0.09	0.09	ppb	7.09	3600	
137	Ba	115	1	313.60	313.60	ppb	0.39	3600	
205	Tl	165	1	0.16	0.16	ppb	1.04	3600	
208	Pb	165	1	12.44	12.44	ppb	0.43	3600	
232	Th	165	1	6.03	6.03	ppb	0.96	1000	
238	U	165	1	1.05	1.05	ppb	1.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	324908	1.47	398260	81.6	30 - 120	
45	Sc	1	2038647	0.92	2300683	88.6	30 - 120	
72	Ge	1	1207326	1.18	1383338	87.3	30 - 120	
115	In	1	3570550	0.76	4023995	88.7	30 - 120	
165	Ho	1	6776523	0.47	7427449	91.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\247SMPL.D\247SMPL.D#
Date Acquired:	Nov 16 2011 11:10 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-c-26-a
Misc Info:	
Vial Number:	4409
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.50	0.50	ppb	13.93	3600	
51	V	72	1	65.90	65.90	ppb	2.04	3600	
52	Cr	72	1	37.90	37.90	ppb	1.65	3600	
55	Mn	72	1	716.20	716.20	ppb	1.64	18000	
59	Co	72	1	17.17	17.17	ppb	0.56	3600	
60	Ni	72	1	48.43	48.43	ppb	0.61	3600	
63	Cu	72	1	38.13	38.13	ppb	0.79	3600	
66	Zn	72	1	107.00	107.00	ppb	1.32	3600	
75	As	72	1	15.13	15.13	ppb	0.87	3600	
78	Se	72	1	2.32	2.32	ppb	12.89	3600	
95	Mo	72	1	1.00	1.00	ppb	5.00	3600	
107	Ag	115	1	0.15	0.15	ppb	3.06	3600	
111	Cd	115	1	0.64	0.64	ppb	6.50	3600	
118	Sn	115	1	0.29	0.29	ppb	8.00	3600	
121	Sb	115	1	0.09	0.09	ppb	4.72	3600	
137	Ba	115	1	351.10	351.10	ppb	0.83	3600	
205	Tl	165	1	0.15	0.15	ppb	4.56	3600	
208	Pb	165	1	11.93	11.93	ppb	1.41	3600	
232	Th	165	1	6.63	6.63	ppb	1.27	1000	
238	U	165	1	1.17	1.17	ppb	0.34	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	324348	1.14	398260	81.4	30 - 120	
45	Sc	1	2037383	0.40	2300683	88.6	30 - 120	
72	Ge	1	1191889	1.36	1383338	86.2	30 - 120	
115	In	1	3537774	0.37	4023995	87.9	30 - 120	
165	Ho	1	6662809	0.96	7427449	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\248SMPL.D\248SMPL.D#
Date Acquired:	Nov 16 2011 11:13 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	280-22232-d-27-a
Misc Info:	
Vial Number:	4410
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.50	0.50	ppb	23.74	3600	
51	V	72	1	56.95	56.95	ppb	1.56	3600	
52	Cr	72	1	34.02	34.02	ppb	1.36	3600	
55	Mn	72	1	480.50	480.50	ppb	1.79	18000	
59	Co	72	1	14.41	14.41	ppb	1.15	3600	
60	Ni	72	1	41.48	41.48	ppb	1.07	3600	
63	Cu	72	1	30.07	30.07	ppb	0.91	3600	
66	Zn	72	1	105.40	105.40	ppb	1.27	3600	
75	As	72	1	11.46	11.46	ppb	1.04	3600	
78	Se	72	1	1.78	1.78	ppb	28.62	3600	
95	Mo	72	1	0.86	0.86	ppb	2.56	3600	
107	Ag	115	1	0.17	0.17	ppb	1.80	3600	
111	Cd	115	1	0.74	0.74	ppb	5.16	3600	
118	Sn	115	1	0.80	0.80	ppb	13.18	3600	
121	Sb	115	1	0.07	0.07	ppb	5.99	3600	
137	Ba	115	1	251.30	251.30	ppb	0.75	3600	
205	Tl	165	1	0.14	0.14	ppb	0.15	3600	
208	Pb	165	1	17.47	17.47	ppb	0.57	3600	
232	Th	165	1	5.31	5.31	ppb	0.11	1000	
238	U	165	1	0.92	0.92	ppb	1.35	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	326030	1.87	398260	81.9	30 - 120	
45	Sc	1	2052394	1.63	2300683	89.2	30 - 120	
72	Ge	1	1206659	1.19	1383338	87.2	30 - 120	
115	In	1	3567778	0.64	4023995	88.7	30 - 120	
165	Ho	1	6756224	0.36	7427449	91.0	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\249SMPL.D\249SMPL.D#
Date Acquired: Nov 16 2011 11:16 pm
Acq. Method: NormISIS.M
Operator: TEL
Sample Name: 280-22232-a-28-b
Misc Info:
Vial Number: 4411
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 16 2011 07:29 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.58	0.58	ppb	11.01	3600	
51 V	72	1	67.23	67.23	ppb	0.66	3600	
52 Cr	72	1	40.03	40.03	ppb	1.15	3600	
55 Mn	72	1	793.60	793.60	ppb	1.21	18000	
59 Co	72	1	17.76	17.76	ppb	1.42	3600	
60 Ni	72	1	51.18	51.18	ppb	0.43	3600	
63 Cu	72	1	39.92	39.92	ppb	0.98	3600	
66 Zn	72	1	117.80	117.80	ppb	1.06	3600	
75 As	72	1	15.50	15.50	ppb	1.65	3600	
78 Se	72	1	1.83	1.83	ppb	11.22	3600	
95 Mo	72	1	1.19	1.19	ppb	7.21	3600	
107 Ag	115	1	0.15	0.15	ppb	4.64	3600	
111 Cd	115	1	0.83	0.83	ppb	9.88	3600	
118 Sn	115	1	0.26	0.26	ppb	6.21	3600	
121 Sb	115	1	0.10	0.10	ppb	0.93	3600	
137 Ba	115	1	338.20	338.20	ppb	0.35	3600	
205 Tl	165	1	0.17	0.17	ppb	2.13	3600	
208 Pb	165	1	12.27	12.27	ppb	2.14	3600	
232 Th	165	1	6.84	6.84	ppb	1.97	1000	
238 U	165	1	1.28	1.28	ppb	2.48	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	320112	2.19	398260	80.4	30 - 120	
45 Sc	1	2011409	1.08	2300683	87.4	30 - 120	
72 Ge	1	1177234	0.88	1383338	85.1	30 - 120	
115 In	1	3474000	0.72	4023995	86.3	30 - 120	
165 Ho	1	6538001	1.76	7427449	88.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\250_CCV.D\250_CCV.D#
Date Acquired: Nov 16 2011 11:19 pm
Operator: TEL
Sample Name: CCV-1131043
Misc Info:
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.82	ppb	3.16	50	103.6	90 - 110	
51	V	72	1	50.27	ppb	1.76	50	100.5	90 - 110	
52	Cr	72	1	51.36	ppb	1.32	50	102.7	90 - 110	
55	Mn	72	1	49.32	ppb	1.76	50	98.6	90 - 110	
59	Co	72	1	52.31	ppb	1.42	50	104.6	90 - 110	
60	Ni	72	1	50.46	ppb	1.93	50	100.9	90 - 110	
63	Cu	72	1	49.51	ppb	2.25	50	99.0	90 - 110	
66	Zn	72	1	50.10	ppb	1.88	50	100.2	90 - 110	
75	As	72	1	50.67	ppb	1.62	50	101.3	90 - 110	
78	Se	72	1	50.95	ppb	2.17	50	101.9	90 - 110	
95	Mo	72	1	50.61	ppb	1.89	50	101.2	90 - 110	
107	Ag	115	1	51.18	ppb	1.15	50	102.4	90 - 110	
111	Cd	115	1	50.47	ppb	0.41	50	100.9	90 - 110	
118	Sn	115	1	49.49	ppb	0.27	50	99.0	90 - 110	
121	Sb	115	1	48.28	ppb	0.28	50	96.6	90 - 110	
137	Ba	115	1	51.54	ppb	0.35	50	103.1	90 - 110	
205	Tl	165	1	52.26	ppb	0.71	50	104.5	90 - 110	
208	Pb	165	1	50.76	ppb	0.92	50	101.5	90 - 110	
232	Th	165	1	52.18	ppb	1.44	50	104.4	90 - 110	
238	U	165	1	51.64	ppb	0.98	50	103.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	334869	0.81	398260	84.1	30 - 120	
45	Sc	1	2060416	0.81	2300683	89.6	30 - 120	
72	Ge	1	1251522	2.11	1383338	90.5	30 - 120	
115	In	1	3740244	0.19	4023995	92.9	30 - 120	
165	Ho	1	6902586	0.62	7427449	92.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\251_CCB.D\251_CCB.D#
Date Acquired: Nov 16 2011 11:22 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.025	ppb	115.03	1.00	
51	V	72	1	0.024	ppb	28.08	1.00	
52	Cr	72	1	-0.001	ppb	536.94	1.00	
55	Mn	72	1	0.010	ppb	113.01	1.00	
59	Co	72	1	0.007	ppb	5.69	1.00	
60	Ni	72	1	0.026	ppb	39.60	1.00	
63	Cu	72	1	0.008	ppb	39.83	1.00	
66	Zn	72	1	0.062	ppb	15.17	1.00	
75	As	72	1	0.006	ppb	160.22	1.00	
78	Se	72	1	0.150	ppb	247.90	1.00	
95	Mo	72	1	0.000	ppb	1024.70	1.00	
107	Ag	115	1	0.010	ppb	7.32	1.00	
111	Cd	115	1	0.008	ppb	34.85	1.00	
118	Sn	115	1	0.025	ppb	14.69	1.00	
121	Sb	115	1	0.014	ppb	21.92	1.00	
137	Ba	115	1	0.018	ppb	28.49	1.00	
205	Tl	165	1	0.009	ppb	13.33	1.00	
208	Pb	165	1	0.008	ppb	14.10	1.00	
232	Th	165	1	0.016	ppb	0.80	1.00	
238	U	165	1	0.010	ppb	8.05	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	345125	1.01	398260	86.7	30 - 120	
45	Sc	1	2147854	0.45	2300683	93.4	30 - 120	
72	Ge	1	1289162	0.67	1383338	93.2	30 - 120	
115	In	1	3785785	0.27	4023995	94.1	30 - 120	
165	Ho	1	6963821	0.66	7427449	93.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\252SMPL.D\252SMPL.D#
Date Acquired:	Nov 16 2011 11:25 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	22534-5
Misc Info:	RAW TOTAL
Vial Number:	4412
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	173.12	3600	
51	V	72	1	3.58	3.58	ppb	4.41	3600	
52	Cr	72	1	0.17	0.17	ppb	6.36	3600	
55	Mn	72	1	1,408.00	1408.00	ppb	1.73	18000	
59	Co	72	1	1.76	1.76	ppb	0.70	3600	
60	Ni	72	1	6.63	6.63	ppb	0.78	3600	
63	Cu	72	1	0.42	0.42	ppb	2.87	3600	
66	Zn	72	1	5.83	5.83	ppb	3.34	3600	
75	As	72	1	55.03	55.03	ppb	1.76	3600	
78	Se	72	1	0.53	0.53	ppb	79.54	3600	
95	Mo	72	1	1.09	1.09	ppb	2.46	3600	
107	Ag	115	1	0.00	0.00	ppb	23.90	3600	
111	Cd	115	1	0.15	0.15	ppb	9.51	3600	
118	Sn	115	1	0.08	0.08	ppb	27.85	3600	
121	Sb	115	1	0.20	0.20	ppb	7.92	3600	
137	Ba	115	1	398.90	398.90	ppb	2.65	3600	
205	Tl	165	1	0.19	0.19	ppb	47.53	3600	
208	Pb	165	1	0.36	0.36	ppb	11.49	3600	
232	Th	165	1	0.01	0.01	ppb	13.26	1000	
238	U	165	1	1.85	1.85	ppb	1.14	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	324527	0.79	398260	81.5	30 - 120	
45	Sc	1	1942609	0.61	2300683	84.4	30 - 120	
72	Ge	1	1189020	1.56	1383338	86.0	30 - 120	
115	In	1	3399724	0.66	4023995	84.5	30 - 120	
165	Ho	1	6393626	0.34	7427449	86.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\253SMPL.D\253SMPL.D#
Date Acquired:	Nov 16 2011 11:27 pm
Acq. Method:	NormISIS.M
Operator:	TEL
Sample Name:	22534-5
Misc Info:	RAW DISS
Vial Number:	4501
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 16 2011 07:29 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	49.94	3600	
51	V	72	1	3.37	3.37	ppb	1.68	3600	
52	Cr	72	1	0.18	0.18	ppb	8.44	3600	
55	Mn	72	1	1,410.00	1410.00	ppb	1.13	18000	
59	Co	72	1	1.76	1.76	ppb	2.79	3600	
60	Ni	72	1	5.37	5.37	ppb	0.76	3600	
63	Cu	72	1	0.23	0.23	ppb	4.15	3600	
66	Zn	72	1	4.34	4.34	ppb	2.30	3600	
75	As	72	1	66.03	66.03	ppb	1.21	3600	
78	Se	72	1	0.50	0.50	ppb	24.87	3600	
95	Mo	72	1	1.01	1.01	ppb	6.56	3600	
107	Ag	115	1	0.00	0.00	ppb	1.82	3600	
111	Cd	115	1	0.05	0.05	ppb	25.16	3600	
118	Sn	115	1	0.07	0.07	ppb	16.18	3600	
121	Sb	115	1	0.19	0.19	ppb	0.68	3600	
137	Ba	115	1	378.70	378.70	ppb	1.71	3600	
205	Tl	165	1	0.04	0.04	ppb	37.49	3600	
208	Pb	165	1	0.04	0.04	ppb	53.96	3600	
232	Th	165	1	0.00	0.00	ppb	25.65	1000	
238	U	165	1	1.61	1.61	ppb	0.62	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	328562	0.44	398260	82.5	30 - 120	
45	Sc	1	1964653	1.27	2300683	85.4	30 - 120	
72	Ge	1	1179523	1.41	1383338	85.3	30 - 120	
115	In	1	3421684	1.30	4023995	85.0	30 - 120	
165	Ho	1	6455220	0.60	7427449	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG111611C.B\254_CCV.D\254_CCV.D#
Date Acquired:	Nov 16 2011 11:30 pm
Operator:	TEL
Sample Name:	CCV-1131043
Misc Info:	
Vial Number:	1105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 16 2011 07:29 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.75	ppb	1.60	50	103.5	90 - 110	
51	V	72	1	49.99	ppb	2.38	50	100.0	90 - 110	
52	Cr	72	1	51.79	ppb	1.92	50	103.6	90 - 110	
55	Mn	72	1	50.11	ppb	0.76	50	100.2	90 - 110	
59	Co	72	1	51.26	ppb	0.96	50	102.5	90 - 110	
60	Ni	72	1	50.55	ppb	1.77	50	101.1	90 - 110	
63	Cu	72	1	49.79	ppb	1.76	50	99.6	90 - 110	
66	Zn	72	1	50.78	ppb	1.18	50	101.6	90 - 110	
75	As	72	1	51.06	ppb	1.37	50	102.1	90 - 110	
78	Se	72	1	52.07	ppb	1.82	50	104.1	90 - 110	
95	Mo	72	1	50.70	ppb	1.62	50	101.4	90 - 110	
107	Ag	115	1	50.62	ppb	1.19	50	101.2	90 - 110	
111	Cd	115	1	50.77	ppb	0.60	50	101.5	90 - 110	
118	Sn	115	1	49.43	ppb	0.91	50	98.9	90 - 110	
121	Sb	115	1	48.47	ppb	0.77	50	96.9	90 - 110	
137	Ba	115	1	51.31	ppb	1.07	50	102.6	90 - 110	
205	Tl	165	1	51.97	ppb	2.13	50	103.9	90 - 110	
208	Pb	165	1	50.41	ppb	0.67	50	100.8	90 - 110	
232	Th	165	1	52.13	ppb	1.67	50	104.3	90 - 110	
238	U	165	1	51.71	ppb	0.96	50	103.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	341221	0.83	398260	85.7	30 - 120	
45	Sc	1	2051629	1.88	2300683	89.2	30 - 120	
72	Ge	1	1226918	1.45	1383338	88.7	30 - 120	
115	In	1	3686689	0.98	4023995	91.6	30 - 120	
165	Ho	1	6751518	0.69	7427449	90.9	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG111611C.B\255_CCB.D\255_CCB.D#
Date Acquired: Nov 16 2011 11:33 pm
Operator: TEL
Sample Name: CCB-1131044
Misc Info:
Vial Number: 1305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 16 2011 07:29 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.025	ppb	114.65	1.00	
51	V	72	1	0.011	ppb	92.67	1.00	
52	Cr	72	1	0.004	ppb	173.49	1.00	
55	Mn	72	1	0.040	ppb	62.32	1.00	
59	Co	72	1	0.009	ppb	24.76	1.00	
60	Ni	72	1	0.018	ppb	47.80	1.00	
63	Cu	72	1	0.008	ppb	66.45	1.00	
66	Zn	72	1	0.061	ppb	27.30	1.00	
75	As	72	1	0.003	ppb	408.00	1.00	
78	Se	72	1	0.141	ppb	166.19	1.00	
95	Mo	72	1	0.006	ppb	193.83	1.00	
107	Ag	115	1	0.011	ppb	29.40	1.00	
111	Cd	115	1	0.010	ppb	95.08	1.00	
118	Sn	115	1	0.029	ppb	56.03	1.00	
121	Sb	115	1	0.013	ppb	19.36	1.00	
137	Ba	115	1	0.014	ppb	31.01	1.00	
205	Tl	165	1	0.020	ppb	2.75	1.00	
208	Pb	165	1	0.011	ppb	9.09	1.00	
232	Th	165	1	0.026	ppb	4.30	1.00	
238	U	165	1	0.014	ppb	3.27	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	348311	0.17	398260	87.5	30 - 120	
45	Sc	1	2073834	1.87	2300683	90.1	30 - 120	
72	Ge	1	1259727	0.76	1383338	91.1	30 - 120	
115	In	1	3753950	0.13	4023995	93.3	30 - 120	
165	Ho	1	6843054	0.53	7427449	92.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG111611C.B\170CALB.D\170CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

96706-6020 water
96709-Soil

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Denver

ICP/MS Technical Data Review Checklist

Lab Project ID Number(s): see attached cover sheet   Check Method/SOP Used: 6020/DV-MT-0018   200.8/DV-MT-0002

Review Items	--- Level 1 --- Yes	No	N/A	Level 2	Comments & Samples Affected
Tune					
1. Tune solution analyzed min. of 4 times for 6020 or 5 times for 200.8?	✓			✓	
2. Tune RSD <5%?	✓			✓	
2. Resolution ≤ 0.9 AMU full width at 10% peak height? **NOTE**: This also satisfies 200.8, 1.0 AMU at 5% peak height	✓			✓	
Initial Calibration					
1. Done with a minimum of 3 integrations of a high standard and blank?	✓			✓	
2. ICV/CCV run at beginning of run, 10% frequency, and end of run? Results with 10% of expected value?	✓			✓	
3. ICB/CCB run at beginning of run, 10% frequency, and end of run? Results +/- RL	✓			✓	
4. ICSA/AB analyzed at beginning of run and every 12 hours and results 80- 120% of TV?	✓			✓	
5. RL Std analyzed at beginning of run and results +/- 50% of TV(for AFCEE 4.0, DoD V3 +/- 20% of true value)?	✓			✓	
Client Samples & QC Sample Results					
1. Were all samples within linear range, ≤ 90% of LDR for 200.8?	✓			✓	
2. Dilutions due to target elements?____ Dilutions for other reasons?____		✓		✓	
3. All reported results bracketed by in control QC?	✓			✓	
4. All 6020 internal standards for all analyses 30-120% of intensities in blank or all 200.8 internal standards 60-125%?	✓			✓	
5. Was a 5X serial dilution analyzed for 6020 and, if so, are results ± 10% of original result, if original ≥ 100x MDL?	✓			✓	
6. LCS included in batch and within QC limits?	✓			✓	
7. Method blank included and <1/2RL?	✓			✓	
8. MS and MSD included in batch?	✓			✓	
9. PDS analyzed and recovery 75-125%?	✓			✓	
10. Manual calculations documented properly and checked?	✓			✓	
11. Are non-conformances documented on an NCM?	✓			✓	
12. Is the appropriate raw data included?	✓			✓	
13. Are all results manually entered into LIMS verified? Are all electronic data files archived to the appropriate network locations?	✓			✓	
14. Were special client requirements met?	✓			✓	

1st Level Reviewer: [signature]   Date: 11/17/11

2nd Level Reviewer: [signature]   Date: 11/17/11

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Rev. 2, 6/12/08

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Batch Number: 94950   Batch Start Date: 11/15/11 06:15   Batch Analyst: Ivey, Crystal L

Batch Method: 3005A   Batch End Date: 11/15/11 11:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS CALSTD-1 00053	MS CALSTD-2 00055	
MB 280-94950/1		3005A, 6020A			50 mL	50 mL			
LCS 280-94950/2		3005A, 6020A			50 mL	50 mL	0.1 mL	0.1 mL	
280-22438-C-1	MG37 GW006	3005A, 6020A	D	<2	50 mL	50 mL			
280-22438-C-1 MS	MG37 GW006	3005A, 6020A	D	<2	50 mL	50 mL	0.1 mL	0.1 mL	
280-22438-C-1 MSD	MG37 GW006	3005A, 6020A	D	<2	50 mL	50 mL	0.1 mL	0.1 mL	
280-22438-C-2	MG37 GW010	3005A, 6020A	D	<2	50 mL	50 mL			
280-22438-B-3	MG38 GW007	3005A, 6020A	D	<2	50 mL	50 mL			
280-22438-C-4	MG40 GW009	3005A, 6020A	D	<2	50 mL	50 mL			
280-22438-C-5	TP02 GW011	3005A, 6020A	D	<2	50 mL	50 mL			
280-22438-C-6	TP04 GW013	3005A, 6020A	D	<2	50 mL	50 mL			
280-22438-C-7	TP04 GW014	3005A, 6020A	D	<2	50 mL	50 mL			
280-22438-C-8	TP03 GW012	3005A, 6020A	D	<2	50 mL	50 mL			
280-22438-C-12	CP29 GW002	3005A, 6020A	D	<2	50 mL	50 mL			
280-22438-C-13	CP31 GW004	3005A, 6020A	D	<2	50 mL	50 mL			
280-22438-C-14	CP31 GW005	3005A, 6020A	D	<2	50 mL	50 mL			
280-22438-C-19	CP47 GW015	3005A, 6020A	D	<2	50 mL	50 mL			

Batch Notes	
Lot # of Nitric Acid	K23022
Hood ID or number	08
Hot Block ID number	06
Oven, Bath or Block Temperature 1	90/A-6
Pipette ID	MET-015
ID number of the thermometer	14859
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	90 Celsius

Basis	Basis Description
D	Dissolved

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-22438-1

SDG No.:

Batch Number: 96043 Batch Start Date: 11/15/11 06:15 Batch Analyst: Ivey, Crystal L

Batch Method: 3050B Batch End Date: 11/15/11 11:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS CALSTD-1 00053	MS CALSTD-2 00055		
MB 280-96043/1		3050B, 6020A		1.02 g	100 mL				
LCS 280-96043/2		3050B, 6020A		1.06 g	100 mL	1 mL	1 mL		
280-22438-B-9	TP23 SB132	3050B, 6020A	T	1.18 g	100 mL				
280-22438-B-9 MS	TP23 SB132	3050B, 6020A	T	1.09 g	100 mL	1 mL	1 mL		
280-22438-B-9 MSD	TP23 SB132	3050B, 6020A	T	1.17 g	100 mL	1 mL	1 mL		
280-22438-A-10	TP24 SB133	3050B, 6020A	T	1.17 g	100 mL				
280-22438-B-15	CP44 SD014	3050B, 6020A	T	1.03 g	100 mL				
280-22438-A-16	CP45 SD015	3050B, 6020A	T	1.16 g	100 mL				
280-22438-A-17	CP45 SD016	3050B, 6020A	T	1.08 g	100 mL				
280-22438-B-18	CP46 SD017	3050B, 6020A	T	1.07 g	100 mL				

Batch Notes	
Analyst	CLI
Balance ID	M28318
Filter Paper Lot Number	400012
Hydrogen peroxide lot number	K20J00
Lot # of Nitric Acid	K23022
Hood ID or number	09
Hot Block ID number	02
Oven, Bath or Block Temperature 1	95 Degrees C
Pipette ID	MET-007
Temperature	95/A-2 Degrees C
ID number of the thermometer	908001558
Digestion Tube/Cup Lot #	1107181
Uncorrected Temperature	95 Celsius

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver

Job Number: 280-22438-1

SDG No.:

Project: Martha's Vineyard RI

Client Sample ID	Lab Sample ID
TP23 SB132	280-22438-9
TP24 SB133	280-22438-10
CP44 SD014	280-22438-15
CP45 SD015	280-22438-16
CP45 SD016	280-22438-17
CP46 SD017	280-22438-18

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job Number: 280-22438-1

SDG Number:

Matrix: Solid   Instrument ID: NOEQUIP

Method: Moisture   LOQ Date: 11/01/2009 00:00

Analyte	Wavelength/ Mass	LOQ (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

FORM IX - IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 11/07/2011 08:11   End Date: 11/07/2011 12:29

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			08:11																				
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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 11/07/2011 08:11   End Date: 11/07/2011 12:29

Lab Sample ID	D/F	Type	Time	Analytes: %Sol	Moist																		
ZZZZZZ			08:11																				
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280-22438-9	1	T	08:11	X	X																		
280-22438-10	1	T	08:11	X	X																		
280-22438-15	1	T	08:11	X	X																		
280-22438-16	1	T	08:11	X	X																		
280-22438-17	1	T	08:11	X	X																		
280-22438-18	1	T	08:11	X	X																		
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 11/07/2011 08:11   End Date: 11/07/2011 12:29

Lab Sample ID	D/F	Type	Time	Analytes																			
				%Sol	Moist																		
ZZZZZZ			08:11																				
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ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Instrument ID: NOEQUIP   Method: Moisture

Start Date: 11/07/2011 08:11   End Date: 11/07/2011 12:29

				Analytes																			
Lab Sample ID	D/F	Type	Time	%Sol	Moist																		
ZZZZZZ			12:29																				
ZZZZZZ			12:29																				
ZZZZZZ			12:29																				
ZZZZZZ			12:29																				
ZZZZZZ			12:29																				
ZZZZZZ			12:29																				
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ZZZZZZ			12:29																				
ZZZZZZ			12:29																				
ZZZZZZ			12:29																				
ZZZZZZ			12:29																				

Prep Types

T = Total/NA

Wet Chemistry Data Review Checklist For Gravimetric Methods

Test Name/Method #: Moisture **Analysis Date:** 11/7/11

SOP #: DV-WC-0023 **Analyst:** PB **Instrument:** H31422

Lot / Sample Numbers	Matrix	Prep Batch	Batch	Method	Special Inst
22357, 22435, 22411	S	—	95047	Moisture	
22464, 22473, 22438					
22439, 22441, 22440					
22443, 22464,					
22460 Hanford			95076		
22449			95079		

A. Balance, Oven, and DI Water QC Checks	Yes	No	N/A	2nd Level
1. Was the balance calibration verified before and after processing samples and noted in the "Balance Calibration Log" for the date(s) the samples were processed?	✓			–
2. Was the oven temperature within method requirements and recorded in the "Oven Temperature" logbook for the date(s) the samples were processed?	✓			–
3. Was the daily conductivity check of the deionized water recorded in the "Conductivity Logbook"?			✓	–
B. Method Requirements				
1. If sample is visibly oily, was this noted on the benchsheet?	✓			–
2. Was final residue weight within minimum/maximum requirements?	✓			–
3. Were the initial and final drying dates and times recorded on the benchsheet and were all samples dried for at least one hour?	✓			–
C. Sample Results				
1. TDS/Conductivity ratio or historical data checked?			✓	–
2. For % Moisture, was the Final Dried Weight < the Initial Pan Weight or is the result greater than 100%?		✓		–
3. Were sample analyses done within holding time?	✓			–
4. Were special client requirements met?	✓			–
5. Were data that were manually transcribed from instrument printouts into TALS verified 100% including significant figures and units?			✓	–
6. Do the prep and analysis dates in TALS reflect the actual dates? Lots/Dates report checked?	✓			–
7. STD/True Value information is updated and included?			✓	–
8. Are raw data copies prepared, scanned, and uploaded?	✓			–
D. Preparation/Matrix QC				
1. Method blank < RL or all reported samples > 10 X RL?			✓	–
2. Method blank < ½ RL or NCM provided?			✓	–
3. LCS/LCSD run for batch and within QC limits?			✓	–
4. DUP run for batch and RPD < 20% for samples >5 X RL?	✓			✓

Analyst: Paul Berry **Date:** 11/8/11

Comments:

2nd Level Reviewer : [signature] **Date:** 11/8/11

Comments:

Revision 2.0
5/18/10
QA\Edit\FORMS\Data Review\Gravimetric Review Checklist

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-1

SDG No.:

Batch Number: 95047   Batch Start Date: 11/07/11 08:11   Batch Analyst: Berry III, Paul B

Batch Method: Moisture   Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
280-22438-B-9	TP23 SB132	Moisture	T	63	1.28 g	17.22 g	14.54 g		
280-22438-A-10	TP24 SB133	Moisture	T	64	1.29 g	17.79 g	17.37 g		
280-22438-B-15	CP44 SD014	Moisture	T	65	1.24 g	17.48 g	15.39 g		
280-22438-A-16	CP45 SD015	Moisture	T	66	1.31 g	17.50 g	15.34 g		
280-22438-A-17	CP45 SD016	Moisture	T	67	1.29 g	17.28 g	15.13 g		
280-22438-B-18	CP46 SD017	Moisture	T	68	1.31 g	17.99 g	15.91 g		

Batch Notes	
Balance ID	H31422 No Unit
Date samples were placed in the oven	11/7/11
Oven Temp when samples are put in oven	103 Degrees C
Time samples were place in the oven	1400
Date samples were removed from oven	11/8/11
Oven Temp when samples removed from oven	104 Degrees C
Time Samples were removed from oven	0615
Oven ID	D
ID number of the thermometer	Moist ove
Uncorrected In Temperature	103 Celsius
Uncorrected Out Temperature	104 Celsius

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

Chain of Custody Record

Sampler ID 3, 8, 3, 9, 41, 34, 11/4/11

Temperature on Receipt ______

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124-280 (0508)

Client	Project Manager	Date	Chain of Custody Number
UXB (AMEC)	D. Sharp	11/3/11	148991
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 **of** 1
10239 Technology Dr.	865-603-9863		

City	State	Zip Code	Site Contact	Lab Contact
Knoxville	TN	37932	D Sharp	J. Blankfield

Project Name and Location (State)	Carrier/Waybill Number
Martha's Vineyard RI, MA	
Contract/Purchase Order/Quote No.	

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8321B	6020A	Special Instructions/ Conditions of Receipt
MG37 GW006	11/2/11	0850		X				2		1						Filtered in field
MG37 GW010		0850		X				2		1						
MG38 GW007		1008		X				2		1						
MG40 GW009		1049		X				2		1						
TP02 GW011		1317		X				2		1						
TP04 GW013		1455		X				2		1						
TP04 GW014		1455		X				2		1						
TP03 GW012		1533		X				2		1						
TP23 SB132		1255				X		1		1						
TP24 SB133		1305				X		1		1						
MV01 IDW01	11/3/11	0900		X				2		1						48 hr turn on waste sample.

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other except for MV01-IDW01 24hr. turn

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
Donna Sharp	11/3/11	1100	[signature]	11/4/11	0930
2. Relinquished By	**Date**	**Time**	**2. Received By**	**Date**	**Time**
3. Relinquished By	**Date**	**Time**	**3. Received By**	**Date**	**Time**

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID 2.4, 3.4, #1, TH, 11/4/11

Temperature on Receipt ______

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: UXB (AMEC)	Project Manager: D. Sharp	Date: 11/2/11	Chain of Custody Number: 14?999
Address: 10239 Technology Dr.	Telephone Number (Area Code)/Fax Number: 865-603-9863	Lab Number	Page 1 of 1
City: Knoxville; State: TN; Zip Code: 37932	Site Contact: D. Sharp; Lab Contact: J. Blankfield		
Project Name and Location (State): Martha's Vineyard RI	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8321B	6020A	Special Instructions/ Conditions of Receipt
CP29 GW002	11/1/11	1305		X			2		1				2	1	Filtered in field
CP31 GW004		1456		X			2		1				2	1	↓
CP31 GW005		1456		X			2		1				2	1	
CP44 SD014		1601			X		2						1	1	
CP45 SD015		1550			X		2						1	1	
CP45 SD016		1550			X		2						1	1	
CP46 SD017 DS "b"	↓	1540			X		2						1	1	
CP47 GW00~~6~~015	11/1/11	1315		X			2		1				2	1	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☑ Archive For 3 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other ______

QC Requirements (Specify)

1. Relinquished By: Donna Sharp	Date: 11/3/11	Time: 1100	1. Received By: [signature]	Date: 11/4/11	Time: 0930
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: UXB International, Inc. Job Number: 280-22438-1

Login Number: 22438 **List Source: TestAmerica Denver**

List Number: 1

Creator: Bindel, Aaron M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Job 22438-1: Sample ID discrepancy between info on COC and labels for sx #14.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Job 22438-1: 1 OF 2 Ambers RCVD BROKEN SAMPLE -003. Suff. vol. remains.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-22438-2

Job Description: Martha's Vineyard RI

For:
UXB International, Inc.
169R Main Street, Second Floor
Flemington, NJ 08822

Attention: Mr. Michael Warminsky

Approved for release.
Joni S Blankfield
Project Manager II
11/11/2011 3:40 PM

Joni S Blankfield
Project Manager II
joni.blankfield@testamericainc.com
11/11/2011

cc: Ms. Donna Sharp

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

Table of Contents

CASE NARRATIVE
Client: UXB International, Inc.
Project: Martha's Vineyard RI
Report Number: 280-22438-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All references to reporting limits and method detection limits in this report are equivalent to the limit of quantitation (LOQ) and detection limit (DL).

RECEIPT
The samples were received on 11/04/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 3.8°C, 3.9°C, 2.4°C and 3.4°C.

EXPLOSIVES
Sample MV01 IDW01 (280-22438-11) was analyzed for explosives in accordance with EPA SW-846 Method 8321B. The samples were prepared on 11/07/2011 and analyzed on 11/10/2011.

Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with prep-batch 280-95077. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

During sample preparation, sample MV01 IDW01 (280-22438-11) required filtration to reduce matrix interferences. Also, the sample extract was yellow and had suspended white particulates.

Due to sample matrix effect on the HMX13C4 and RDX13C3 internal standards (ISTD), a 10X dilution was required for sample MV01 IDW01 (280-22438-11). The ISTD's were below control limits (50-200%) in the undiluted analysis. Elevated LOQ, LOD and DL's are provided for HMX and RDX.

sample#	HMX13C4 %R	RDX13C3 %R
22438-11	19%	44%

No other difficulties were encountered during the explosives analysis.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)
Sample MV01 IDW01 (280-22438-11) was analyzed for metals (ICPMS) in accordance with SW846 6020A. The samples were prepared on 11/08/2011 and analyzed on 11/09/2011.

The interference check standard solution (ICSA) associated with analytical batch 280-95431 was above the DoD acceptance criteria for antimony (> limit of detection (LOD)). It is believed that the solution contains trace impurities of this element and the result is not due to matrix interference. The result is consistent with those found by the manufacturer of the ICSA solution. The associated sample results have been flagged "Q" for this analyte.

The matrix spike duplicate (MSD) recovery for prep batch 280-94961, performed on sample MV01 IDW01 (280-22438-11) was outside control limits for zinc (143%). The associated laboratory control sample (LCS) recoveries met acceptance criteria, and the sample results have been flagged accordingly. The parent sample for the serial dilution (SD) had antimony, copper, nickel and zinc concentrations less than 50 times the LOD and therefore, the SD was not calculable. The post digestion spike recoveries for this batch were within the established control limits for these metals.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: UXB International, Inc. Job Number: 280-22438-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-22438-11	MV01 IDW01	Water	11/03/2011 0900	11/04/2011 0930

EXECUTIVE SUMMARY - Detections

Client: UXB International, Inc.

Job Number: 280-22438-2

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-22438-11	**MV01 IDW01**					
Antimony		0.51	J Q	6.0	ug/L	6020A
Copper		5.2		2.0	ug/L	6020A
Lead		12		3.0	ug/L	6020A
Nickel		15		3.0	ug/L	6020A
Zinc		96	J	20	ug/L	6020A
1,3,5-Trinitrobenzene		0.098		0.098	ug/L	8321B

METHOD SUMMARY

Client: UXB International, Inc. Job Number: 280-22438-2

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Nitroaromatics and Nitramines (LC/MS)	TAL DEN	SW846 8321B	
Solid-Phase Extraction (SPE)			SW846 3535
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Total Metals			SW846 3020A

Lab References:

TAL DEN = TestAmerica Denver

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: UXB International, Inc. Job Number: 280-22438-2

Method	Analyst	Analyst ID
SW846 6020A	Lill, Thomas E	TEL
SW846 8321B	Meyer, Andrew GC	AGCM

Client: UXB International, Inc.　　　　Job Number: 280-22438-2

Client Sample ID: **MV01 IDW01**

Lab Sample ID:	280-22438-11	Date Sampled:	11/03/2011 0900
Client Matrix:	Water	Date Received:	11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95630	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10040.d
Dilution:	1.0			Initial Weight/Volume:	1015.5 mL
Analysis Date:	11/10/2011 1753			Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
1,3,5-Trinitrobenzene	0.098		0.017	0.098
1,3-Dinitrobenzene	0.049	U	0.014	0.098
2,4,6-Trinitrotoluene	0.049	U	0.022	0.098
2,4-Dinitrotoluene	0.049	U	0.019	0.098
2,6-Dinitrotoluene	0.049	U	0.022	0.098
2-Amino-4,6-dinitrotoluene	0.049	U	0.021	0.098
2-Nitrotoluene	0.049	U	0.022	0.098
3-Nitrotoluene	0.049	U	0.025	0.098
4-Amino-2,6-dinitrotoluene	0.049	U	0.019	0.098
4-Nitrotoluene	0.049	U	0.026	0.098
Nitrobenzene	0.049	U	0.032	0.098
Nitroglycerin	0.049	U	0.044	0.14
PETN	0.049	U	0.018	0.098
Tetryl	0.049	U	0.021	0.098

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	76		48 - 130

Analytical Data

Client: UXB International, Inc.

Job Number: 280-22438-2

Client Sample ID: **MV01 IDW01**

Lab Sample ID: 280-22438-11

Client Matrix: Water

Date Sampled: 11/03/2011 0900

Date Received: 11/04/2011 0930

8321B Nitroaromatics and Nitramines (LC/MS)

Analysis Method:	8321B	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Prep Method:	3535	Prep Batch:	280-95077	Lab File ID:	ex41K10025.d
Dilution:	10			Initial Weight/Volume:	1015.5 mL
Analysis Date:	11/10/2011 1451	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL

Analyte	Result (ug/L)	Qualifier	DL	LOQ
HMX	0.49	U	0.19	0.98
RDX	0.49	U	0.21	0.98

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	94	D	48 - 130

Client: UXB International, Inc. | Job Number: 280-22438-2

Client Sample ID: **MV01 IDW01**

Lab Sample ID: 280-22438-11
Client Matrix: Water

Date Sampled: 11/03/2011 0900
Date Received: 11/04/2011 0930

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	280-95431	Instrument ID:	MT_024
Prep Method:	3020A	Prep Batch:	280-94961	Lab File ID:	156AREF.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/09/2011 0224			Final Weight/Volume:	50 mL
Prep Date:	11/08/2011 0515				

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Antimony	0.51	J Q	0.070	6.0
Copper	5.2		0.56	2.0
Lead	12		0.18	3.0
Nickel	15		0.30	3.0
Zinc	96	J	2.0	20

Surrogate Recovery Report

8321B Nitroaromatics and Nitramines (LC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	NBZ %Rec
280-22438-11 DL	MV01 IDW01 DL	94D
280-22438-11	MV01 IDW01	76
MB 280-95077/1-A		80
LCS 280-95077/2-A		72
LCSD 280-95077/3-A		67

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	48-130

Client: UXB International, Inc. Job Number: 280-22438-2

Method Blank - Batch: 280-95077 **Method: 8321B**
Preparation: 3535

Lab Sample ID:	MB 280-95077/1-A	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Client Matrix:	Water	Prep Batch:	280-95077	Lab File ID:	ex41K10013.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/10/2011 1224	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
1,3,5-Trinitrobenzene	0.050	U	0.017	0.10
1,3-Dinitrobenzene	0.050	U	0.014	0.10
2,4,6-Trinitrotoluene	0.050	U	0.022	0.10
2,4-Dinitrotoluene	0.050	U	0.019	0.10
2,6-Dinitrotoluene	0.050	U	0.022	0.10
2-Amino-4,6-dinitrotoluene	0.050	U	0.021	0.10
2-Nitrotoluene	0.050	U	0.022	0.10
3-Nitrotoluene	0.050	U	0.025	0.10
4-Amino-2,6-dinitrotoluene	0.050	U	0.019	0.10
4-Nitrotoluene	0.050	U	0.026	0.10
HMX	0.050	U	0.019	0.10
Nitrobenzene	0.050	U	0.033	0.10
Nitroglycerin	0.050	U	0.045	0.14
PETN	0.050	U	0.018	0.10
RDX	0.050	U	0.021	0.10
Tetryl	0.050	U	0.021	0.10

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	80	48 - 130

Client: UXB International, Inc. | Job Number: 280-22438-2

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-95077

Method: 8321B
Preparation: 3535

LCS Lab Sample ID:	LCS 280-95077/2-A	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Client Matrix:	Water	Prep Batch:	280-95077	Lab File ID:	ex41K10014.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/10/2011 1237	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-95077/3-A	Analysis Batch:	280-95629	Instrument ID:	LC_LCMS4
Client Matrix:	Water	Prep Batch:	280-95077	Lab File ID:	ex41K10015.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/10/2011 1249	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/07/2011 1142			Injection Volume:	40 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,3,5-Trinitrobenzene	89	87	54 - 145	2	57		
1,3-Dinitrobenzene	104	95	68 - 131	9	39		
2,4,6-Trinitrotoluene	42	41	20 - 147	2	68		
2,4-Dinitrotoluene	96	95	66 - 130	2	46		
2,6-Dinitrotoluene	90	87	64 - 133	4	44		
2-Amino-4,6-dinitrotoluene	92	87	64 - 138	6	41		
2-Nitrotoluene	73	72	34 - 131	1	68		
3-Nitrotoluene	83	69	36 - 133	19	89		
4-Amino-2,6-dinitrotoluene	96	87	65 - 131	10	36		
4-Nitrotoluene	80	71	40 - 137	13	72		
HMX	90	86	56 - 134	5	34		
Nitrobenzene	76	76	42 - 141	1	58		
Nitroglycerin	92	92	37 - 147	0	71		
PETN	93	104	10 - 198	11	50		
RDX	95	94	72 - 130	1	25		
Tetryl	33	31	15 - 134	5	51		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Nitrobenzene-d5	72	67	48 - 130

Client: UXB International, Inc. Job Number: 280-22438-2

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-95077

Method: 8321B
Preparation: 3535

LCS Lab Sample ID:	LCS 280-95077/2-A	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	11/10/2011 1237		
Prep Date:	11/07/2011 1142		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCSD 280-95077/3-A
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	11/10/2011 1249
Prep Date:	11/07/2011 1142
Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
1,3,5-Trinitrobenzene	0.500	0.500	0.445	0.434
1,3-Dinitrobenzene	0.500	0.500	0.521	0.476
2,4,6-Trinitrotoluene	0.500	0.500	0.208	0.204
2,4-Dinitrotoluene	0.500	0.500	0.482	0.474
2,6-Dinitrotoluene	0.500	0.500	0.449	0.433
2-Amino-4,6-dinitrotoluene	0.500	0.500	0.462	0.433
2-Nitrotoluene	0.500	0.500	0.365	0.361
3-Nitrotoluene	0.500	0.500	0.415	0.345
4-Amino-2,6-dinitrotoluene	0.500	0.500	0.481	0.436
4-Nitrotoluene	0.500	0.500	0.402	0.354
HMX	0.500	0.500	0.449	0.428
Nitrobenzene	0.500	0.500	0.382	0.379
Nitroglycerin	0.500	0.500	0.459	0.458
PETN	0.500	0.500	0.464	0.519
RDX	0.500	0.500	0.474	0.469
Tetryl	0.500	0.500	0.163	0.155

Client: UXB International, Inc. | Job Number: 280-22438-2

Method Blank - Batch: 280-94961

Method: 6020A
Preparation: 3020A

Lab Sample ID:	MB 280-94961/1-A	Analysis Batch:	280-95431	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-94961	Lab File ID:	134_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/09/2011 0120	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	11/08/2011 0515				
Leach Date:	N/A				

Analyte	Result	Qual	DL	LOQ
Antimony	0.20	U Q	0.070	6.0
Copper	1.5	U	0.56	2.0
Lead	0.50	U	0.18	3.0
Nickel	0.90	U	0.30	3.0
Zinc	6.0	U	2.0	20

Lab Control Sample - Batch: 280-94961

Method: 6020A
Preparation: 3020A

Lab Sample ID:	LCS 280-94961/2-A	Analysis Batch:	280-95431	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-94961	Lab File ID:	135_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/09/2011 0123	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	11/08/2011 0515				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	39.6	99	85 - 115	Q
Copper	40.0	40.4	101	85 - 119	
Lead	40.0	40.9	102	85 - 118	
Nickel	40.0	41.1	103	85 - 119	
Zinc	40.0	39.9	100	83 - 122	

Post Digestion Spike - Batch: 280-94961

Method: 6020A
Preparation: 3020A

Lab Sample ID:	280-22438-11	Analysis Batch:	280-95431	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-94961	Lab File ID:	158PDS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/09/2011 0230	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	11/08/2011 0515				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.51	J	200	198	99	75 - 125	Q
Copper	5.2		200	201	98	75 - 125	
Lead	12		200	203	95	75 - 125	
Nickel	15		200	221	103	75 - 125	
Zinc	96		200	297	101	75 - 125	

Client: UXB International, Inc. | Job Number: 280-22438-2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94961

Method: 6020A
Preparation: 3020A

MS Lab Sample ID:	280-22438-11	Analysis Batch:	280-95431	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-94961	Lab File ID:	159_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/09/2011 0232			Final Weight/Volume:	50 mL
Prep Date:	11/08/2011 0515				
Leach Date:	N/A				

MSD Lab Sample ID:	280-22438-11	Analysis Batch:	280-95431	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-94961	Lab File ID:	160_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/09/2011 0235			Final Weight/Volume:	50 mL
Prep Date:	11/08/2011 0515				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	85	87	85 - 115	2	20	Q	Q
Copper	95	96	85 - 119	1	20		
Lead	97	98	85 - 118	1	20		
Nickel	98	98	85 - 119	0	20		
Zinc	87	143	83 - 122	16	20		J

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-94961

Method: 6020A
Preparation: 3020A

MS Lab Sample ID:	280-22438-11	Units:	ug/L	MSD Lab Sample ID:	280-22438-11
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	11/09/2011 0232			Analysis Date:	11/09/2011 0235
Prep Date:	11/08/2011 0515			Prep Date:	11/08/2011 0515
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.51	J	40.0	40.0	34.6	Q	35.3	Q
Copper	5.2		40.0	40.0	43.3		43.6	
Lead	12		40.0	40.0	51.0		51.7	
Nickel	15		40.0	40.0	54.0		54.2	
Zinc	96		40.0	40.0	130		153	J

Quality Control Results

Client: UXB International, Inc. Job Number: 280-22438-2

Serial Dilution - Batch: 280-94961

Method: 6020A
Preparation: 3020A

Lab Sample ID:	280-22438-11	Analysis Batch:	280-95431	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-94961	Lab File ID:	157SDIL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/09/2011 0227	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	11/08/2011 0515				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.51	J	0.555	NC	10	J D Q
Copper	5.2		5.20	NC	10	J D
Lead	12		12.3	0.61	10	J D
Nickel	15		14.5	NC	10	J D
Zinc	96		105	NC	10	D

DATA REPORTING QUALIFIERS

Client: UXB International, Inc. Job Number: 280-22438-2

Lab Section	Qualifier	Description
Metals		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
	Q	One or more quality control criteria failed.
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.
LCMS		
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.

Client: UXB International, Inc. Job Number: 280-22438-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-94961					
LCS 280-94961/2-A	Lab Control Sample	T	Water	3020A	
MB 280-94961/1-A	Method Blank	T	Water	3020A	
280-22438-11	MV01 IDW01	T	Water	3020A	
280-22438-11MS	Matrix Spike	T	Water	3020A	
280-22438-11MSD	Matrix Spike Duplicate	T	Water	3020A	
Analysis Batch:280-95431					
LCS 280-94961/2-A	Lab Control Sample	T	Water	6020A	280-94961
MB 280-94961/1-A	Method Blank	T	Water	6020A	280-94961
280-22438-11	MV01 IDW01	T	Water	6020A	280-94961
280-22438-11MS	Matrix Spike	T	Water	6020A	280-94961
280-22438-11MSD	Matrix Spike Duplicate	T	Water	6020A	280-94961

Report Basis

T = Total

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
LCMS					
Prep Batch: 280-95077					
LCS 280-95077/2-A	Lab Control Sample	T	Water	3535	
LCSD 280-95077/3-A	Lab Control Sample Duplicate	T	Water	3535	
MB 280-95077/1-A	Method Blank	T	Water	3535	
280-22438-11	MV01 IDW01	T	Water	3535	
280-22438-11DL	MV01 IDW01	T	Water	3535	
Analysis Batch:280-95629					
LCS 280-95077/2-A	Lab Control Sample	T	Water	8321B	280-95077
LCSD 280-95077/3-A	Lab Control Sample Duplicate	T	Water	8321B	280-95077
MB 280-95077/1-A	Method Blank	T	Water	8321B	280-95077
280-22438-11DL	MV01 IDW01	T	Water	8321B	280-95077
Analysis Batch:280-95630					
280-22438-11	MV01 IDW01	T	Water	8321B	280-95077

Report Basis

T = Total

Client: UXB International, Inc. Job Number: 280-22438-2

Laboratory Chronicle

Lab ID: **280-22438-11** **Client ID:** **MV01 IDW01**

Sample Date/Time: 11/03/2011 09:00 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	280-22438-B-11-A	DL	280-95629	280-95077	11/07/2011 11:42	10	TAL DEN	KS
A:8321B	280-22438-B-11-A	DL	280-95629	280-95077	11/10/2011 14:51	10	TAL DEN	AGCM
P:3535	280-22438-B-11-A		280-95630	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	280-22438-B-11-A		280-95630	280-95077	11/10/2011 17:53	1	TAL DEN	AGCM
P:3020A	280-22438-C-11-A		280-95431	280-94961	11/08/2011 05:15	1	TAL DEN	CLI
A:6020A	280-22438-C-11-A		280-95431	280-94961	11/09/2011 02:24	1	TAL DEN	TEL

Lab ID: **280-22438-11 MS** **Client ID:** **MV01 IDW01**

Sample Date/Time: 11/03/2011 09:00 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3020A	280-22438-C-11-B MS		280-95431	280-94961	11/08/2011 05:15	1	TAL DEN	CLI
A:6020A	280-22438-C-11-B MS		280-95431	280-94961	11/09/2011 02:32	1	TAL DEN	TEL

Lab ID: **280-22438-11 MSD** **Client ID:** **MV01 IDW01**

Sample Date/Time: 11/03/2011 09:00 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3020A	280-22438-C-11-C MSD		280-95431	280-94961	11/08/2011 05:15	1	TAL DEN	CLI
A:6020A	280-22438-C-11-C MSD		280-95431	280-94961	11/09/2011 02:35	1	TAL DEN	TEL

Lab ID: **280-22438-11 SD** **Client ID:** **MV01 IDW01**

Sample Date/Time: 11/03/2011 09:00 Received Date/Time: 11/04/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3020A	280-22438-C-11-A SD ^5		280-95431	280-94961	11/08/2011 05:15	5	TAL DEN	CLI
A:6020A	280-22438-C-11-A SD ^5		280-95431	280-94961	11/09/2011 02:27	5	TAL DEN	TEL
P:3020A	280-22438-C-11-A PDS		280-95431	280-94961	11/08/2011 05:15	1	TAL DEN	CLI
A:6020A	280-22438-C-11-A PDS		280-95431	280-94961	11/09/2011 02:30	1	TAL DEN	TEL

Client: UXB International, Inc. Job Number: 280-22438-2

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	MB 280-95077/1-A		280-95629	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	MB 280-95077/1-A		280-95629	280-95077	11/10/2011 12:24	1	TAL DEN	AGCM
P:3020A	MB 280-94961/1-A		280-95431	280-94961	11/08/2011 05:15	1	TAL DEN	CLI
A:6020A	MB 280-94961/1-A		280-95431	280-94961	11/09/2011 01:20	1	TAL DEN	TEL

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	LCS 280-95077/2-A		280-95629	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	LCS 280-95077/2-A		280-95629	280-95077	11/10/2011 12:37	1	TAL DEN	AGCM
P:3020A	LCS 280-94961/2-A		280-95431	280-94961	11/08/2011 05:15	1	TAL DEN	CLI
A:6020A	LCS 280-94961/2-A		280-95431	280-94961	11/09/2011 01:23	1	TAL DEN	TEL

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3535	LCSD 280-95077/3-A		280-95629	280-95077	11/07/2011 11:42	1	TAL DEN	KS
A:8321B	LCSD 280-95077/3-A		280-95629	280-95077	11/10/2011 12:49	1	TAL DEN	AGCM

Lab References:
TAL DEN = TestAmerica Denver

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
8321EXcalprim_00007	04/15/12	03/30/11	acn, Lot K06817	10 mL	8231NG_00004	1 mL	Nitroglycerin	10 ug/mL
					8321EX-Mix_00005	0.1 mL	1,3,5-Trinitrobenzene	10.01 ug/mL
							1,3-Dinitrobenzene	10.14 ug/mL
							2,4,6-Trinitrotoluene	10.01 ug/mL
							2,4-Dinitrotoluene	10.03 ug/mL
							2,6-Dinitrotoluene	10.01 ug/mL
							2-Amino-4,6-dinitrotoluene	10.01 ug/mL
							2-Nitrotoluene	9.91 ug/mL
							3-Nitrotoluene	9.88 ug/mL
							4-Amino-2,6-dinitrotoluene	9.87 ug/mL
							4-Nitrotoluene	9.95 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	9.99 ug/mL
							RDX	9.87 ug/mL
							Tetryl	9.94 ug/mL
					8321PETN_00004	1 mL	PETN	9.98 ug/mL
.8231NG_00004	09/13/12		Accustandard, Lot 210091093		(Purchased Reagent)		Nitroglycerin	100 ug/mL
.8321EX-Mix_00005	04/21/12		AccuStandard, Lot 209101177		(Purchased Reagent)		1,3,5-Trinitrobenzene	1001 ug/mL
							1,3-Dinitrobenzene	1014 ug/mL
							2,4,6-Trinitrotoluene	1001 ug/mL
							2,4-Dinitrotoluene	1003 ug/mL
							2,6-Dinitrotoluene	1001 ug/mL
							2-Amino-4,6-dinitrotoluene	1001 ug/mL
							2-Nitrotoluene	991 ug/mL
							3-Nitrotoluene	988 ug/mL
							4-Amino-2,6-dinitrotoluene	987 ug/mL
							4-Nitrotoluene	995 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	999 ug/mL
							RDX	987 ug/mL
							Tetryl	994 ug/mL
.8321PETN_00004	04/15/12		Accustandard, Lot 210041174		(Purchased Reagent)		PETN	99.8 ug/mL
8321expICV_00005	12/22/11	03/30/11	acn:0.1%HAC, Lot K06817	10 mL	EXP-SS-MIX_00003	100 uL	2,6-Dinitrotoluene	10 ug/mL
							2-Amino-4,6-dinitrotoluene	10 ug/mL
							2-Nitrotoluene	10 ug/mL
							3-Nitrotoluene	10 ug/mL
							4-Amino-2,6-dinitrotoluene	10 ug/mL
							4-Nitrotoluene	10 ug/mL
							Tetryl	10 ug/mL
					EXP-SS-MIX1_00003	100 uL	1,3,5-Trinitrobenzene	9.99992 ug/mL
							1,3-Dinitrobenzene	10 ug/mL
							2,4,6-Trinitrotoluene	10 ug/mL
							2,4-Dinitrotoluene	9.99992 ug/mL
							HMX	10 ug/mL
							Nitrobenzene	10 ug/mL
							RDX	10 ug/mL
					EXP-SS-NG_00004	100 uL	Nitroglycerin	10 ug/mL
					EXP-SS-PETN_00003	100 uL	PETN	10 ug/mL
.EXP-SS-MIX_00003	12/22/11		Restek, Lot A060936		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.EXP-SS-MIX1_00003	12/22/11		Restek, Lot A057253		(Purchased Reagent)		1,3,5-Trinitrobenzene	999.992 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	999.992 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.EXP-SS-NG_00004	12/22/11		Restek, Lot A067062		(Purchased Reagent)		Nitroglycerin	1000 ug/mL
.EXP-SS-PETN_00003	12/22/11		Restek, Lot A067064		(Purchased Reagent)		PETN	1000 ug/mL
8321ExplosLCS_00011	03/26/12	11/03/11	Acetonitrile, Lot K27815	250 mL	8330 LCSMix2_00038	1 mL	2,6-Dinitrotoluene	4 ug/mL
							2-Amino-4,6-dinitrotoluene	4 ug/mL
							2-Nitrotoluene	4 ug/mL
							3-Nitrotoluene	4 ug/mL
							4-Amino-2,6-dinitrotoluene	4 ug/mL
							4-Nitrotoluene	4 ug/mL
							Tetryl	4 ug/mL
					8330LCSMix1_00038	1 mL	1,3,5-Trinitrobenzene	4 ug/mL
							1,3-Dinitrobenzene	4 ug/mL
							2,4,6-Trinitrotoluene	4 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							HMX	4 ug/mL
							Nitrobenzene	4 ug/mL
							RDX	4 ug/mL
					NG&PETNRestek_00024	0.1 mL	Nitroglycerin	4 ug/mL
							PETN	4 ug/mL
					PicricARestek_00022	0.1 mL	2,4,6-Trinitrophenol	0.4 ug/mL
.8330 LCSMix2_00038	09/30/14		Restek, Lot A069852		(Purchased Reagent)		2,6-Dinitrotoluene	1000 ug/mL
							2-Amino-4,6-dinitrotoluene	1000 ug/mL
							2-Nitrotoluene	1000 ug/mL
							3-Nitrotoluene	1000 ug/mL
							4-Amino-2,6-dinitrotoluene	1000 ug/mL
							4-Nitrotoluene	1000 ug/mL
							Tetryl	1000 ug/mL
.8330LCSMix1_00038	08/31/13		Restek, Lot A062123		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							2,4,6-Trinitrotoluene	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							HMX	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							RDX	1000 ug/mL
.NG&PETNRestek_00024	08/30/14		Restek, Lot A083634		(Purchased Reagent)		Nitroglycerin	10000 ug/mL
							PETN	10000 ug/mL
.PicricARestek_00022	02/28/16		Restek, Lot A080173		(Purchased Reagent)		2,4,6-Trinitrophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
8321ExplosSur_00017	01/18/12	10/25/11	Acetonitrile, Lot K18824	200 mL	8321NB-D5-1_00004	66 uL	Nitrobenzene-d5	3.95307 ug/mL
.8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
..8321NB-D5_00002	01/20/16	Cambridge Isotope, Lot PR-20474/06199NB1			(Purchased Reagent)		Nitrobenzene-d5	99 %
8321NB-D5-cal_00003	01/18/12	01/19/11	ACN, Lot j48808	10 mL	8321NB-D5-2_00003	1 mL	Nitrobenzene-d5	10.0025 ug/mL
.8321NB-D5-2_00003	01/18/12	01/19/11	ACN, Lot j48808	10 mL	8321NB-D5-1_00004	0.0835 mL	Nitrobenzene-d5	100.025 ug/mL
..8321NB-D5-1_00004	01/18/12	01/18/11	ACN, Lot ???	10 mL	8321NB-D5_00002	0.121 mL	Nitrobenzene-d5	11979 ug/mL
...8321NB-D5_00002	01/20/16	Cambridge Isotope, Lot PR-20474/06199NB1			(Purchased Reagent)		Nitrobenzene-d5	99 %
EXPWORKINGIS_00028	12/28/11	10/27/11	Acetonitrile, Lot K18824	10 mL	83212,4DNTIS_00004	0.125 mL	2,4-dinitrotoluene-d3	12.5 ug/mL
					8321HMX13C4IS_00008	0.125 mL	HMX-13C4	12.5 ug/mL
					8321RDX13C3IS_00004	0.125 mL	Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3	12.5 ug/mL
					EXPDNBD4IS_00004	0.02 mL	1,3-Dinitrobenzene-d4	12.936 ug/mL
.83212,4DNTIS_00004	05/19/12	Cambridge Isotope, Lot SCBD-008			(Purchased Reagent)		2,4-dinitrotoluene-d3	1000 mg/L
.8321HMX13C4IS_00008	09/11/16	Cambridge Isotope, Lot SCGF-021			(Purchased Reagent)		HMX-13C4	1000 mg/L
.8321RDX13C3IS_00004	03/31/18	Cambridge Isotope, Lot SCIC-005			(Purchased Reagent)		Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3	1000 mg/L
.EXPDNBD4IS_00004	12/28/11	12/28/10	Acetonitrile, Lot h38619	10 mL	832113DNBD4IS_00002	0.066 g	1,3-Dinitrobenzene-d4	6468 ug/mL
..832113DNBD4IS_00002	01/16/14	Cambridge Isotope, Lot P-6201			(Purchased Reagent)		1,3-Dinitrobenzene-d4	98 %
MS CAL DAILY_00459	11/09/11	11/08/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
.MS CALSTD-1_00049	09/01/12	Inorganic Ventures, Lot D2-MEB358015			(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12	Inorganic Ventures, Lot E2-MEB378112			(Purchased Reagent)		Antimony	20 mg/L
MS CALSTD-1_00054	10/01/12	Inorganic Ventures, Lot E2-MEB394076			(Purchased Reagent)		Ag	20 mg/L
							As	20 mg/L
							Ba	20 mg/L
							Be	20 mg/L
							Cd	20 mg/L
							Co	20 mg/L
							Copper	20 mg/L
							Cr	20 mg/L
							Lead	20 mg/L
							Mn	20 mg/L
							Nickel	20 mg/L
							Se	20 mg/L
							Th	20 mg/L
							Tl	20 mg/L
							U	20 mg/L
							V	20 mg/L
							Zinc	20 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
MS CALSTD-2_00053	10/01/12	Inorganic Ventures, Lot E2-MEB394077			(Purchased Reagent)		Antimony	20 mg/L
							Mo	20 mg/L
							Sn	20 mg/L
MS CCV_00454	11/09/11	11/08/11	1% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.25 mL	Copper	50 ug/L
							Lead	50 ug/L
							Nickel	50 ug/L
							Zinc	50 ug/L
					MS CALSTD-2_00049	0.25 mL	Antimony	50 ug/L
.MS CALSTD-1_00049	09/01/12	Inorganic Ventures, Lot D2-MEB358015			(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12	Inorganic Ventures, Lot E2-MEB378112			(Purchased Reagent)		Antimony	20 mg/L
MS ICSA_00452	11/09/11	11/08/11	1% HNO3, Lot K23022	50 mL	MS ICSA STOCK_00010	5 mL	Mo	2000 ug/L
.MS ICSA STOCK_00010	10/01/12	Inorganic Ventures, Lot E2-MEB371022			(Purchased Reagent)		Mo	20 mg/L
MS ICSAB_00455	11/09/11	11/08/11	1% HNO3, Lot K23022	10 mL	MS CALSTD-1_00049	0.05 mL	Ag	100 ug/L
							As	100 ug/L
							Ba	100 ug/L
							Be	100 ug/L
							Cd	100 ug/L
							Co	100 ug/L
							Copper	100 ug/L
							Cr	100 ug/L
							Lead	100 ug/L
							Mn	100 ug/L
							Nickel	100 ug/L
							Se	100 ug/L
							Tl	100 ug/L
							U	100 ug/L
							V	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.05 mL	Antimony	100 ug/L
							Mo	2100 ug/L
							Sn	100 ug/L
					MS ICSA STOCK_00010	1 mL	Mo	2100 ug/L
.MS CALSTD-1_00049	09/01/12	Inorganic Ventures, Lot D2-MEB358015			(Purchased Reagent)		Ag	20 mg/L
							As	20 mg/L
							Ba	20 mg/L
							Be	20 mg/L
							Cd	20 mg/L
							Co	20 mg/L
							Copper	20 mg/L
							Cr	20 mg/L
							Lead	20 mg/L
							Mn	20 mg/L
							Nickel	20 mg/L
							Se	20 mg/L
							Tl	20 mg/L
							U	20 mg/L

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent: Reagent ID	Parent Reagent: Volume Added	Analyte	Concentration
							V	20 mg/L
							Zinc	20 mg/L
.MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
							Mo	20 mg/L
							Sn	20 mg/L
.MS ICSA STOCK_00010	10/01/12		Inorganic Ventures, Lot E2-MEB371022		(Purchased Reagent)		Mo	20 mg/L
MS ICV_00453	11/09/11	11/08/11	1% HNO3, Lot K23022	50 mL	MS ICV-A HP_00004	0.1 mL	Copper	40 ug/L
							Lead	40 ug/L
							Nickel	40 ug/L
							Zinc	40 ug/L
					MS ICV-B HP_00003	0.1 mL	Antimony	40 ug/L
.MS ICV-A HP_00004	03/16/12		HIGH PURITY, Lot 1107415		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
.MS ICV-B HP_00003	03/16/12		HIGH PURITY, Lot 1107417		(Purchased Reagent)		Antimony	20 mg/L
MS LCCV dly_00453	11/09/11	11/08/11	5% HNO3, Lot K23022	100 mL	MS LLCCV1_00004	1 mL	Copper	2 ug/L
							Lead	1 ug/L
							Nickel	2 ug/L
							Zinc	10 ug/L
					MS LLCCV2 IV_00004	1 mL	Antimony	2 ug/L
.MS LLCCV1_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366138		(Purchased Reagent)		Copper	0.2 mg/L
							Lead	0.1 mg/L
							Nickel	0.2 mg/L
							Zinc	1 mg/L
.MS LLCCV2 IV_00004	03/16/12		Inorganic Ventures, Lot E2-MEB366139		(Purchased Reagent)		Antimony	0.2 mg/L
MS PDS 1 IV_00004	12/28/11		Inorganic Ventures, Lot D2-MEB357105		(Purchased Reagent)		Antimony	20 mg/L
MS PDS 2 IV_00007	10/01/12		Inorganic Ventures, Lot E2-MEB391126		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
MS RL STD_00464	11/09/11	11/08/11	1% HNO3, Lot K23022	10 mL	MS CAL DAILY_00459	0.1 mL	Copper	1 ug/L
							Lead	1 ug/L
							Nickel	1 ug/L
							Zinc	10 ug/L
							Antimony	1 ug/L
					MS Sn/Zn Mix_00005	0.09 mL	Zinc	10 ug/L
.MS CAL DAILY_00459	11/09/11	11/08/11	5% HNO3, Lot K23022	100 mL	MS CALSTD-1_00049	0.5 mL	Copper	100 ug/L
							Lead	100 ug/L
							Nickel	100 ug/L
							Zinc	100 ug/L
					MS CALSTD-2_00049	0.5 mL	Antimony	100 ug/L
..MS CALSTD-1_00049	09/01/12		Inorganic Ventures, Lot D2-MEB358015		(Purchased Reagent)		Copper	20 mg/L
							Lead	20 mg/L
							Nickel	20 mg/L
							Zinc	20 mg/L
..MS CALSTD-2_00049	09/01/12		Inorganic Ventures, Lot E2-MEB378112		(Purchased Reagent)		Antimony	20 mg/L
.MS Sn/Zn Mix_00005	12/01/11	02/16/11	5% HNO3, Lot J11046	50 mL	1000 Zn_00003	0.05 mL	Zinc	1 mg/L
..1000 Zn_00003	12/01/11		Inorganic Ventures, Lot d2-zn02065		(Purchased Reagent)		Zinc	1000 mg/L

Certification Summary

Client: UXB International, Inc. TestAmerica Job ID: 280-22438-2
Project/Site: Martha's Vineyard RI

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alabama	State Program	4	40730
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	USDA	USDA		P330-08-00036
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8321B
Explosives

Nitroaromatics and Nitramines
(LC/MS/MS) by Method 8321B

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Matrix: Water   Level: Low

GC Column (1): IonPac   ID: 2 (mm)

Client Sample ID	Lab Sample ID	NBZ	#
MV01 IDW01	280-22438-11	76	
MV01 IDW01 DL	280-22438-11 DL	94	D
	MB 280-95077/1-A	80	
	LCS 280-95077/2-A	72	
	LCSD 280-95077/3-A	67	

	QC LIMITS
NBZ = Nitrobenzene-d5	48-130

Column to be used to flag recovery values

FORM II 8321B

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Matrix: Water   Level: Low   Lab File ID: ex41K10014.d

Lab ID: LCS 280-95077/2-A   Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.500	0.445	89	54-145	
1,3-Dinitrobenzene	0.500	0.521	104	68-131	
2,4,6-Trinitrotoluene	0.500	0.208	42	20-147	
2,4-Dinitrotoluene	0.500	0.482	96	66-130	
2,6-Dinitrotoluene	0.500	0.449	90	64-133	
2-Amino-4,6-dinitrotoluene	0.500	0.462	92	64-138	
2-Nitrotoluene	0.500	0.365	73	34-131	
3-Nitrotoluene	0.500	0.415	83	36-133	
4-Amino-2,6-dinitrotoluene	0.500	0.481	96	65-131	
4-Nitrotoluene	0.500	0.402	80	40-137	
HMX	0.500	0.449	90	56-134	
Nitrobenzene	0.500	0.382	76	42-141	
Nitroglycerin	0.500	0.459	92	37-147	
PETN	0.500	0.464	93	10-198	
RDX	0.500	0.474	95	72-130	
Tetryl	0.500	0.163	33	15-134	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Matrix: Water Level: Low Lab File ID: ex41K10015.d

Lab ID: LCSD 280-95077/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,3,5-Trinitrobenzene	0.500	0.434	87	2	57	54-145	
1,3-Dinitrobenzene	0.500	0.476	95	9	39	68-131	
2,4,6-Trinitrotoluene	0.500	0.204	41	2	68	20-147	
2,4-Dinitrotoluene	0.500	0.474	95	2	46	66-130	
2,6-Dinitrotoluene	0.500	0.433	87	4	44	64-133	
2-Amino-4,6-dinitrotoluene	0.500	0.433	87	6	41	64-138	
2-Nitrotoluene	0.500	0.361	72	1	68	34-131	
3-Nitrotoluene	0.500	0.345	69	19	89	36-133	
4-Amino-2,6-dinitrotoluene	0.500	0.436	87	10	36	65-131	
4-Nitrotoluene	0.500	0.354	71	13	72	40-137	
HMX	0.500	0.428	86	5	34	56-134	
Nitrobenzene	0.500	0.379	76	1	58	42-141	
Nitroglycerin	0.500	0.458	92	0	71	37-147	
PETN	0.500	0.519	104	11	50	10-198	
RDX	0.500	0.469	94	1	25	72-130	
Tetryl	0.500	0.155	31	5	51	15-134	

Column to be used to flag recovery and RPD values

FORM III 8321B

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Lab File ID: ex41K10013.d   Lab Sample ID: MB 280-95077/1-A

Matrix: Water   Date Extracted: 11/07/2011 11:42

Instrument ID: LC_LCMS4   Date Analyzed: 11/10/2011 12:24

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-95077/2-A	ex41K10014.d	11/10/2011 12:37
	LCSD 280-95077/3-A	ex41K10015.d	11/10/2011 12:49
MV01 IDW01 DL	280-22438-11 DL	ex41K10025.d	11/10/2011 14:51
MV01 IDW01	280-22438-11	ex41K10040.d	11/10/2011 17:53

FORM IV 8321B

FORM VIII

LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 11/10/2011 10:21

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 11/10/2011 11:34

Calibration ID: 7774

		HXC4		HHTT		DNB4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		742762	2.06	2664840	3.03	1846598	4.97
UPPER LIMIT		1485524	2.56	5329680	3.53	3693196	5.47
LOWER LIMIT		371381	1.56	1332420	2.53	923299	4.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 280-95626/8		826307	2.06	2610667	3.03	1894140	4.99
ICV 280-95626/10		644949	2.06	2693593	3.03	1985956	4.99
MB 280-95077/1-A		691893	2.06	2834862	3.11	1736720	5.03
LCS 280-95077/2-A		730574	2.06	2572681	3.07	1854587	5.03
LCSD 280-95077/3-A		682416	2.06	2475529	3.07	1804961	5.04
CCV 280-95629/19		800380	2.06	2657549	3.03	1898911	4.95
280-22438-11 DL	MV01 IDW01 DL	552129	2.06	2388873	3.03	1759818	4.95
CCV 280-95629/28		836351	2.06	2890487	3.03	1829870	4.95
CCV 280-95630/35		757407	2.06	2856908	3.03	1846735	4.95
280-22438-11	MV01 IDW01	144501Q	2.06	1168727Q	3.07	1778593	4.99
CCV 280-95630/43		728168	2.06	2608006	3.03	1615374	4.95

HXC4 = HMX-13C4
HHTT = Hexahydro-1,3,5-trinitro-1,3,5-triazine 13C3
DNB4 = 1,3-Dinitrobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Instrument ID: LC_LCMS4   Calibration Start Date: 11/10/2011 10:21

GC Column: IonPac   ID: 2(mm)   Calibration End Date: 11/10/2011 11:34

Calibration ID: 7774

		DNT3					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		5203729	7.19				
UPPER LIMIT		10407458	7.69				
LOWER LIMIT		2601865	6.69				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 280-95626/8		5104410	7.26				
ICV 280-95626/10		5415194	7.26				
MB 280-95077/1-A		4510410	7.32				
LCS 280-95077/2-A		4691186	7.29				
LCSD 280-95077/3-A		5162191	7.29				
CCV 280-95629/19		5165297	7.20				
280-22438-11 DL	MV01 IDW01 DL	4952673	7.20				
CCV 280-95629/28		4464441	7.17				
CCV 280-95630/35		5187215	7.20				
280-22438-11	MV01 IDW01	4992599	7.26				
CCV 280-95630/43		5263730	7.20				

DNT3 = 2,4-dinitrotoluene-d3

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8321B

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Client Sample ID: MV01 IDW01   Lab Sample ID: 280-22438-11

Matrix: Water   Lab File ID: ex41K10040.d

Analysis Method: 8321B   Date Collected: 11/03/2011 09:00

Extraction Method: 3535   Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1015.5(mL)   Date Analyzed: 11/10/2011 17:53

Con. Extract Vol.: 5(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95630   Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.098		0.098	0.049	0.017
99-65-0	1,3-Dinitrobenzene	0.049	U	0.098	0.049	0.014
118-96-7	2,4,6-Trinitrotoluene	0.049	U	0.098	0.049	0.022
121-14-2	2,4-Dinitrotoluene	0.049	U	0.098	0.049	0.019
606-20-2	2,6-Dinitrotoluene	0.049	U	0.098	0.049	0.022
35572-78-2	2-Amino-4,6-dinitrotoluene	0.049	U	0.098	0.049	0.021
88-72-2	2-Nitrotoluene	0.049	U	0.098	0.049	0.022
99-08-1	3-Nitrotoluene	0.049	U	0.098	0.049	0.025
19406-51-0	4-Amino-2,6-dinitrotoluene	0.049	U	0.098	0.049	0.019
99-99-0	4-Nitrotoluene	0.049	U	0.098	0.049	0.026
98-95-3	Nitrobenzene	0.049	U	0.098	0.049	0.032
55-63-0	Nitroglycerin	0.049	U	0.14	0.049	0.044
78-11-5	PETN	0.049	U	0.098	0.049	0.018
479-45-8	Tetryl	0.049	U	0.098	0.049	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	76		48-130

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10040.d		
Lims ID:	280-22438-B-11-A	Client ID:	MV01 IDW01
Inject. Date:	10-Nov-2011 17:53:37	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	280-22438-B-11-A 280-0002741-038		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	54
Lims Batch ID:	95630	Lims Sample ID:	38
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:36	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:35:10

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										s
1	360.8	2.062	2.062	0.000		144501	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										s
1	284.0	3.072	3.032	0.040		1168727	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.759	0.040	1.000	132324	20.0			
6 Tetryl										
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1778593	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.102	4.994	0.108	1.022	7151	1.72			
9 Nitroglycerin										
2	61.8	4.954	5.034	-0.080	0.992	70809	1.22			
10 2,4,6-Trinitrotoluene										
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.472	0.068	1.109	584299	75.3			
12 Nitrobenzene										
2	123.0	5.674	5.607	0.067	1.136	8496	2.34			
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.170	0.092		4992599	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.223							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

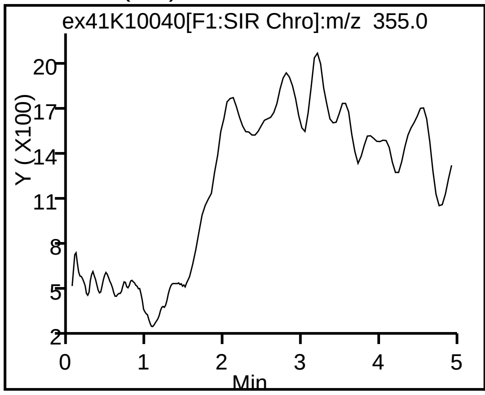
QC Flag Legend

Processing Flags
1 - Missing Peaks
s - Failed ISTD Recovery Test

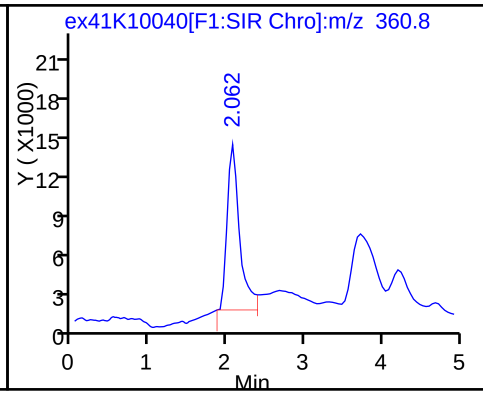
Report Date: 11-Nov-2011 06:40:39 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10040.d

Injection Date:	10-Nov-2011 17:53:37	Limit Group:	LC - 8321A Expl
Client ID:	MV01 IDW01	Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	38
Operator ID:		Injection Vol:	40.00 ul

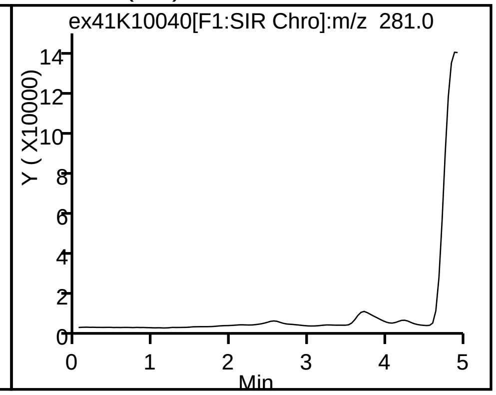
2 HMX (ND)



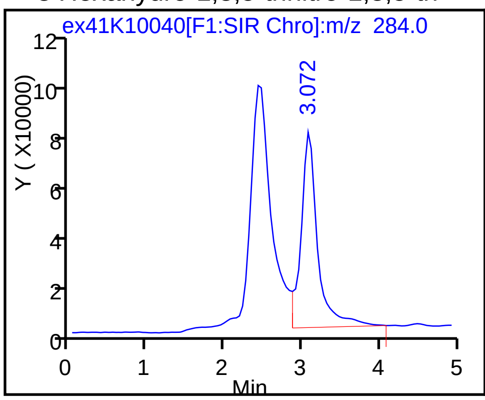
* 1 HMX-13C4



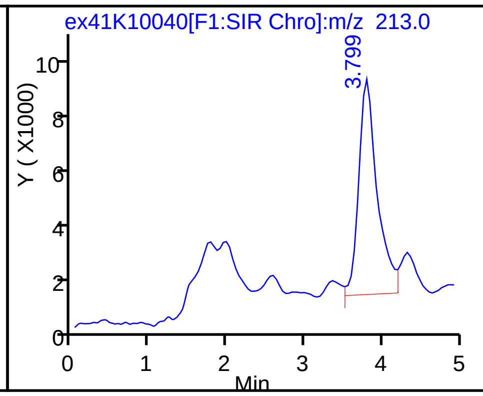
4 RDX (ND)



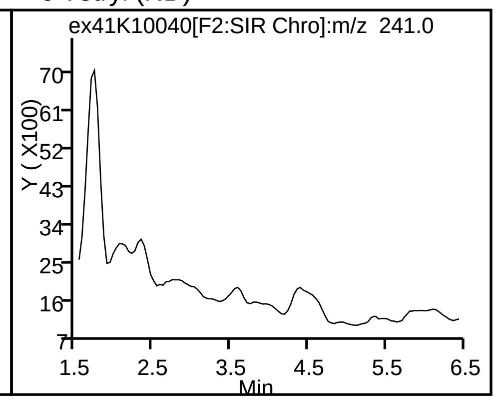
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



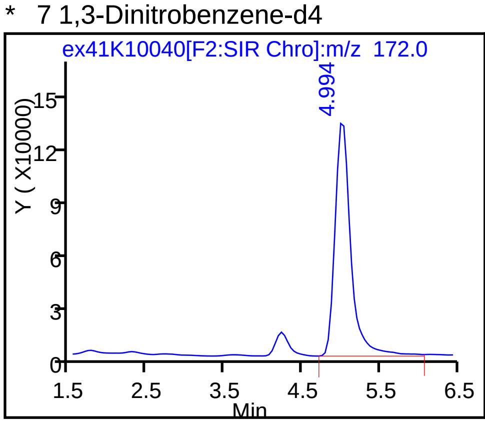
5 1,3,5-Trinitrobenzene



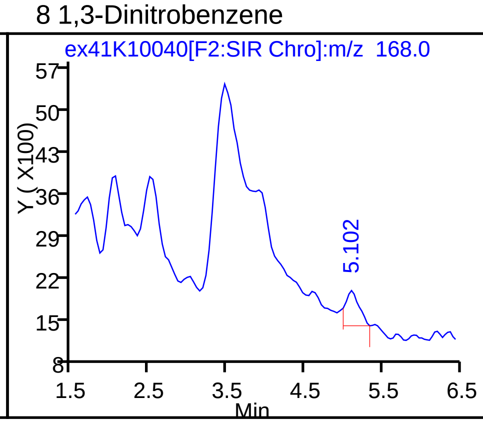
6 Tetryl (ND)



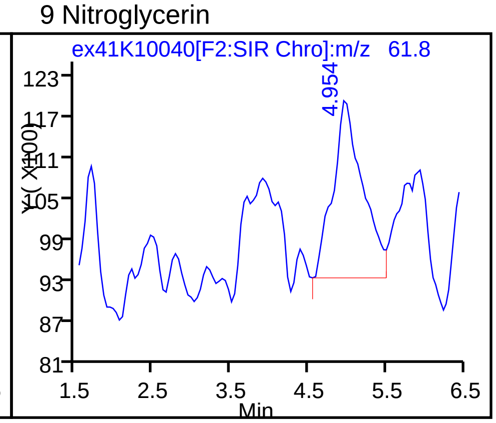
* 7 1,3-Dinitrobenzene-d4



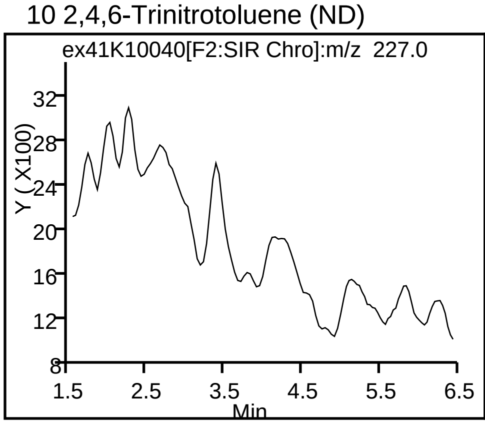
8 1,3-Dinitrobenzene



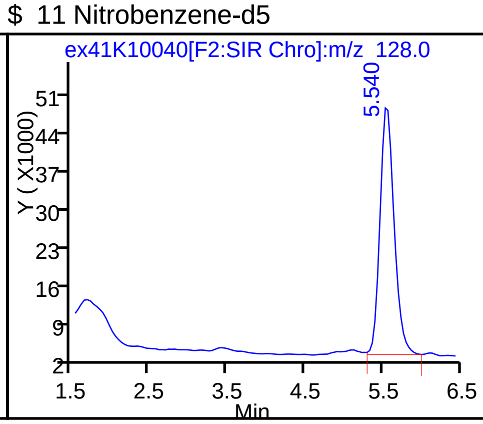
9 Nitroglycerin



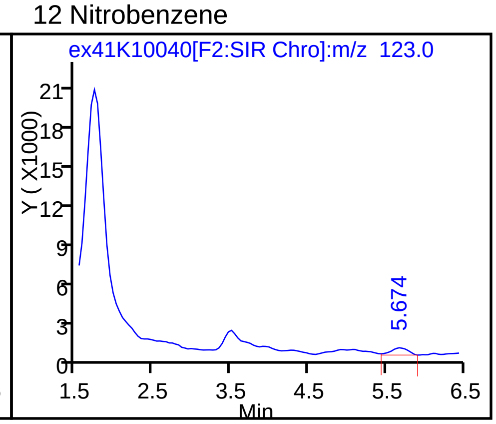
10 2,4,6-Trinitrotoluene (ND)



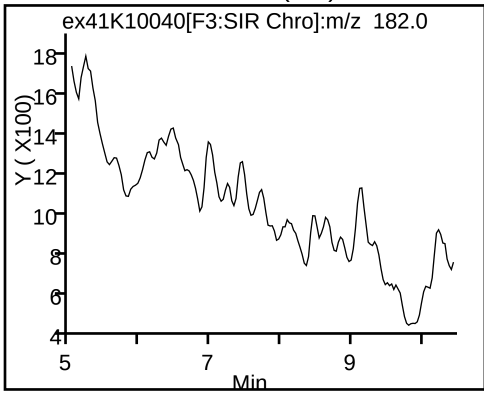
$ 11 Nitrobenzene-d5



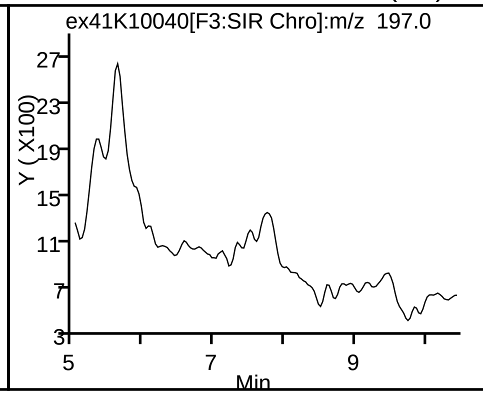
12 Nitrobenzene



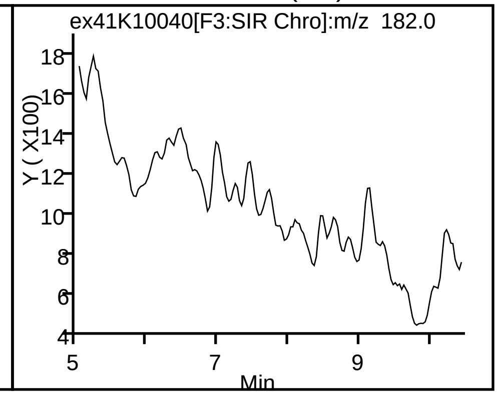
13 3,4-Dinitrotoluene (ND)



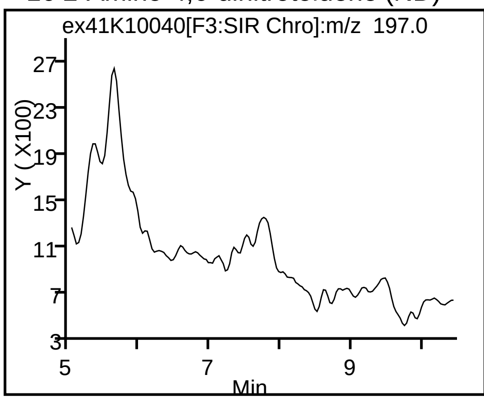
14 4-Amino-2,6-dinitrotoluene (ND)



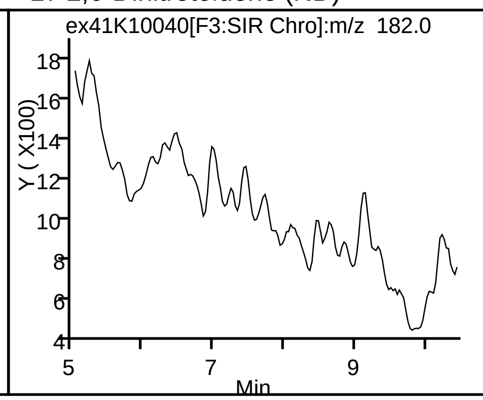
15 2,3-Dinitrotoluene (ND)



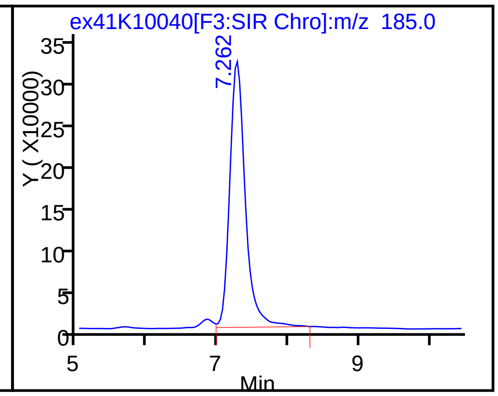
16 2-Amino-4,6-dinitrotoluene (ND)



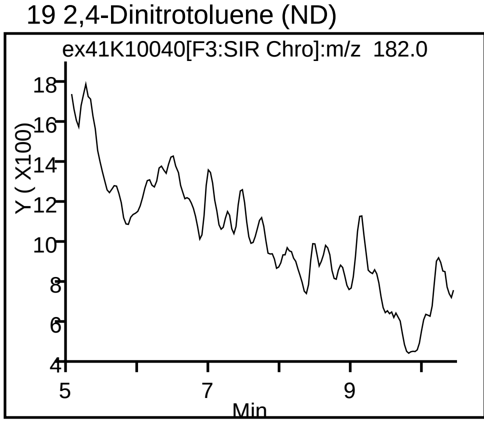
17 2,6-Dinitrotoluene (ND)



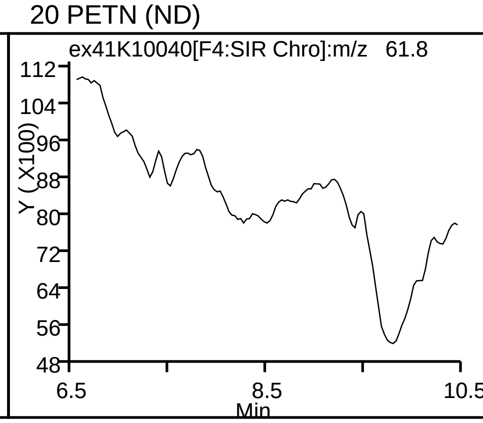
* 18 2,4-dinitrotoluene-d3



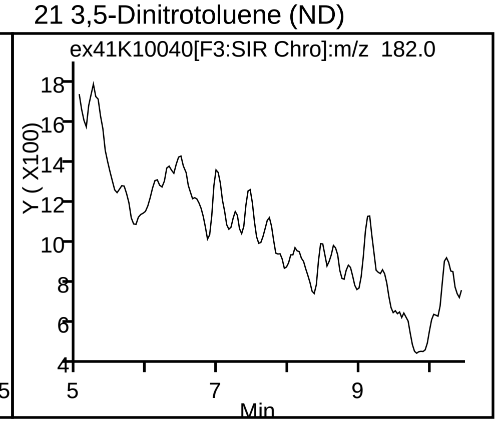
19 2,4-Dinitrotoluene (ND)



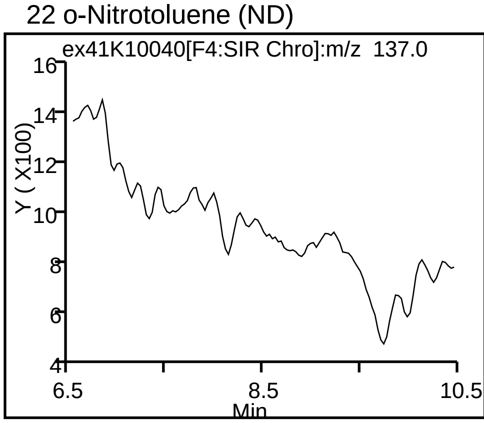
20 PETN (ND)



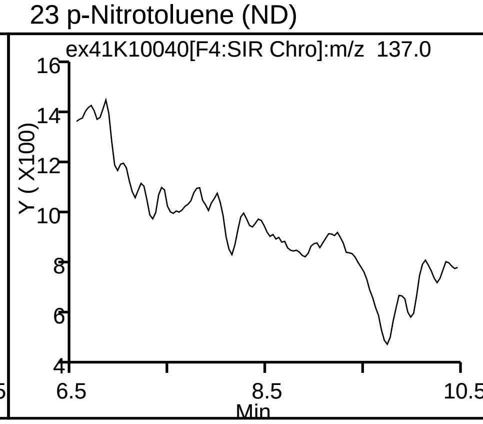
21 3,5-Dinitrotoluene (ND)



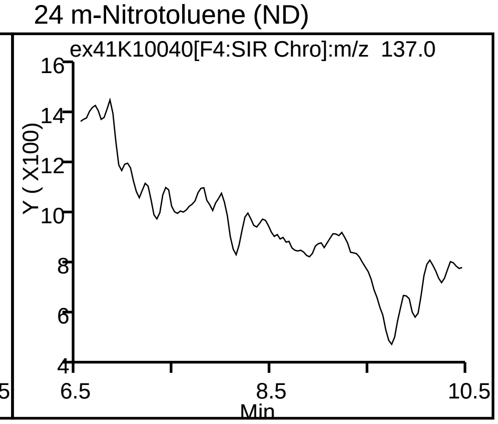
22 o-Nitrotoluene (ND)



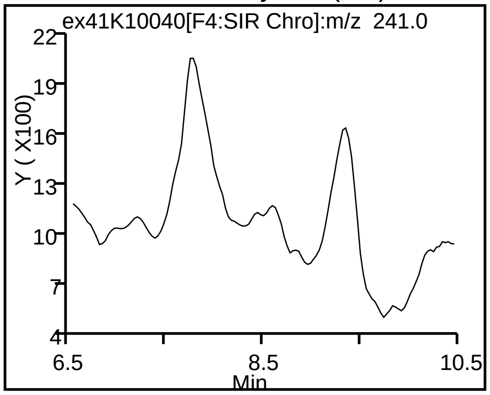
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-22438-2

SDG No.:

Client Sample ID: MV01 IDW01 DL | Lab Sample ID: 280-22438-11 DL

Matrix: Water | Lab File ID: ex41K10025.d

Analysis Method: 8321B | Date Collected: 11/03/2011 09:00

Extraction Method: 3535 | Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1015.5(mL) | Date Analyzed: 11/10/2011 14:51

Con. Extract Vol.: 5(mL) | Dilution Factor: 10

Injection Volume: 40(uL) | GC Column: IonPac ID: 2(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
2691-41-0	HMX	0.49	U	0.98	0.49	0.19
121-82-4	RDX	0.49	U	0.98	0.49	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	94	D	48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10025.d		
Lims ID:	280-22438-B-11-A	Client ID:	MV01 IDW01
Inject. Date:	10-Nov-2011 14:51:02	Dil. Factor:	10.0000
Sample Type:	Client		
Sample ID:	280-22438-B-11-A 10x 280-0002741-023		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	67
Lims Batch ID:	95629	Lims Sample ID:	23
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:25	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		
First Level Reviewer: meyera		Date:	11-Nov-2011 06:31:48

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		552129	250.0			
4 RDX										
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2388873	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.718	3.759	-0.041	1.000	21825	4.85			
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1759818	258.7			
8 1,3-Dinitrobenzene										
2	168.0		5.035							
9 Nitroglycerin										
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	70977	9.25			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
15 2,3-Dinitrotoluene										1
3	182.0		6.425							
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4952673	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										1
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

QC Flag Legend

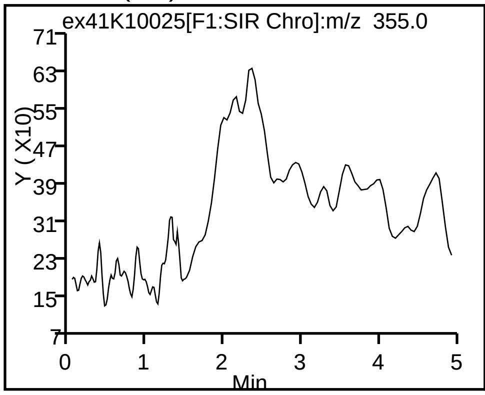
Processing Flags
1 - Missing Peaks

Report Date: 11-Nov-2011 06:40:28 Chrom Revision: 1.2 13-Jul-2011 10:43:06

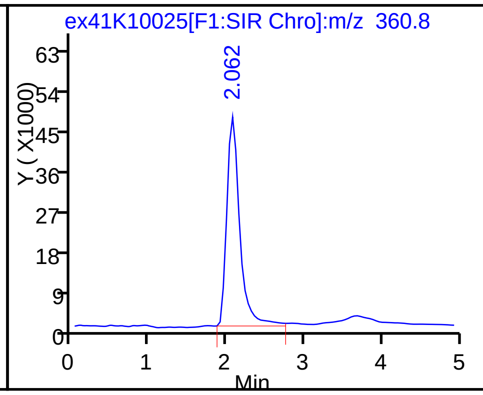
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10025.d

Injection Date:	10-Nov-2011 14:51:02	Limit Group:	LC - 8321A Expl
Client ID:	MV01 IDW01	Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	23
Operator ID:		Injection Vol:	40.00 ul

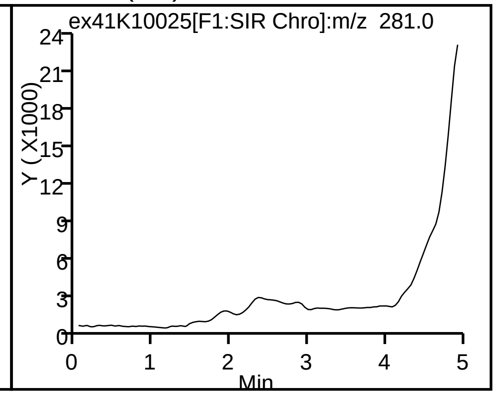
2 HMX (ND)



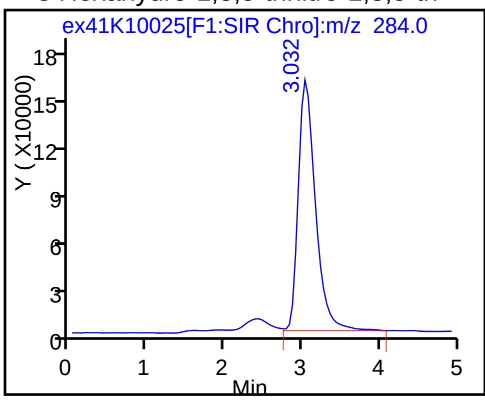
* 1 HMX-13C4



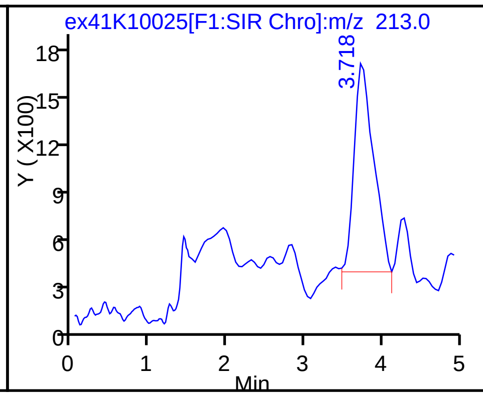
4 RDX (ND)



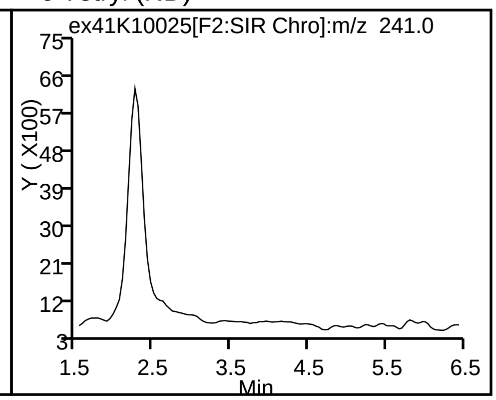
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



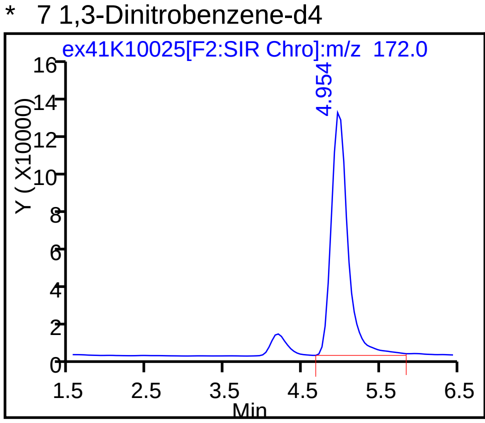
5 1,3,5-Trinitrobenzene



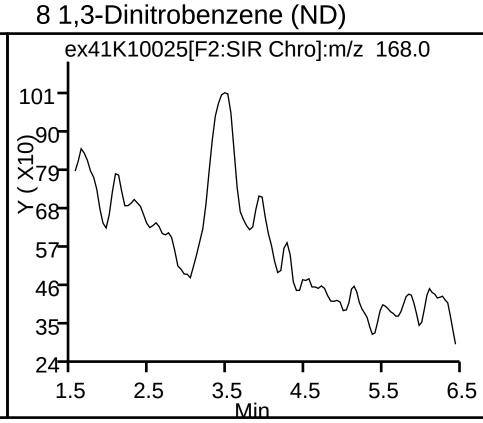
6 Tetryl (ND)



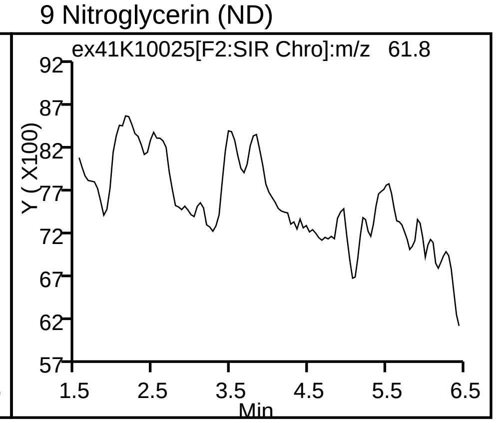
* 7 1,3-Dinitrobenzene-d4



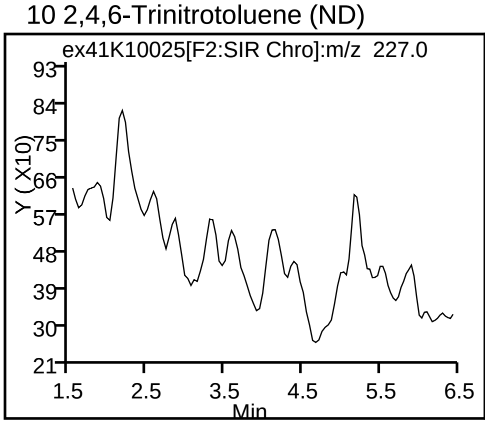
8 1,3-Dinitrobenzene (ND)



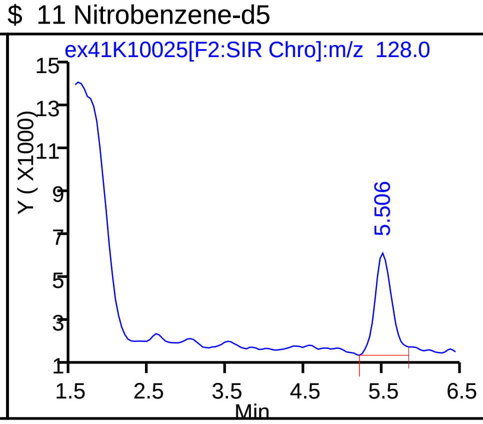
9 Nitroglycerin (ND)



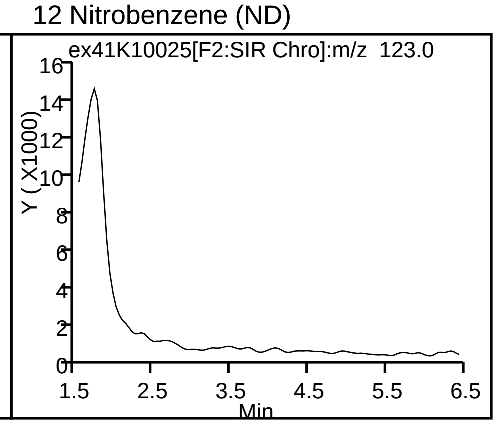
10 2,4,6-Trinitrotoluene (ND)



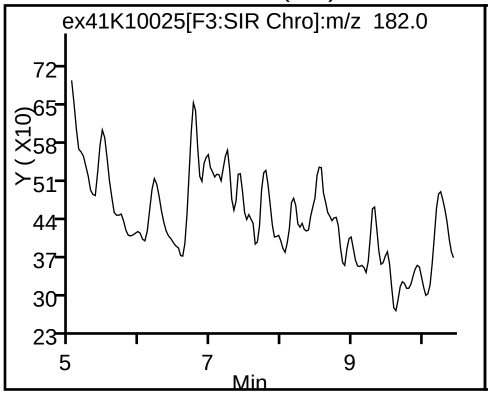
$ 11 Nitrobenzene-d5



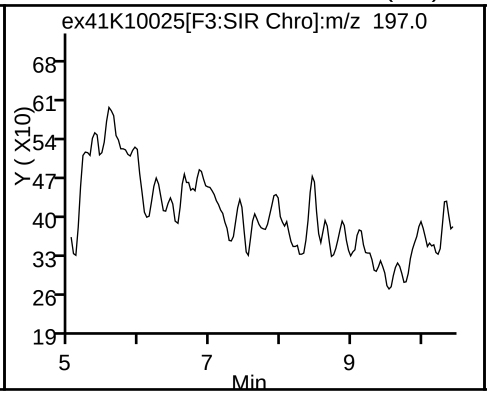
12 Nitrobenzene (ND)



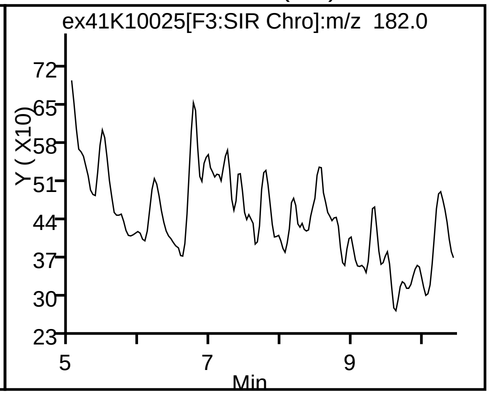
13 3,4-Dinitrotoluene (ND)



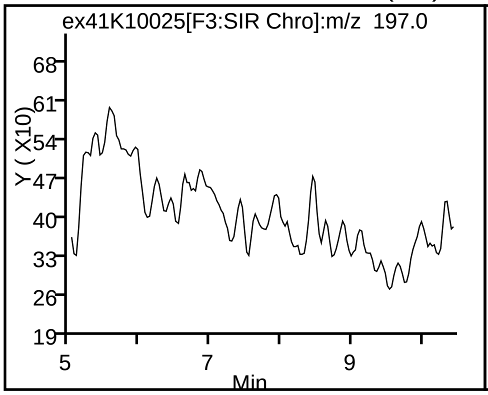
14 4-Amino-2,6-dinitrotoluene (ND)



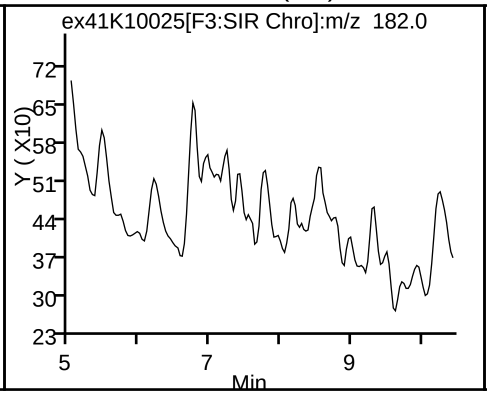
15 2,3-Dinitrotoluene (ND)



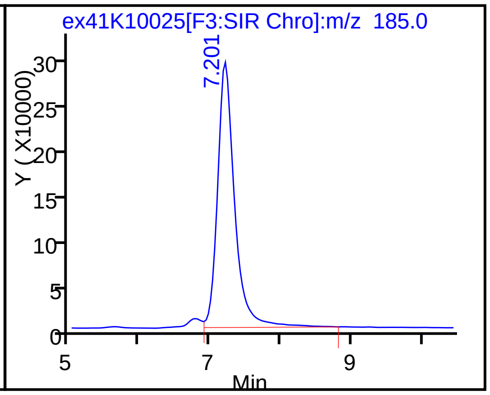
16 2-Amino-4,6-dinitrotoluene (ND)



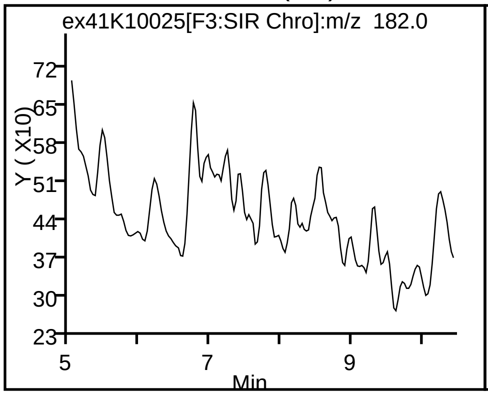
17 2,6-Dinitrotoluene (ND)



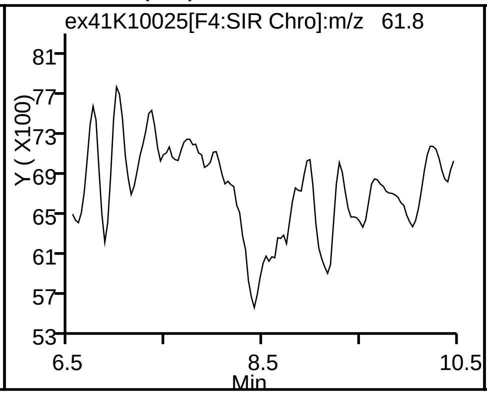
* 18 2,4-dinitrotoluene-d3



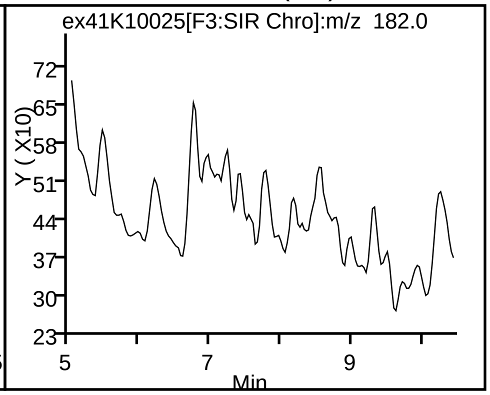
19 2,4-Dinitrotoluene (ND)



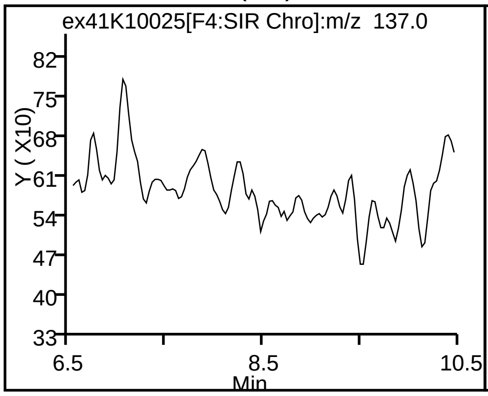
20 PETN (ND)



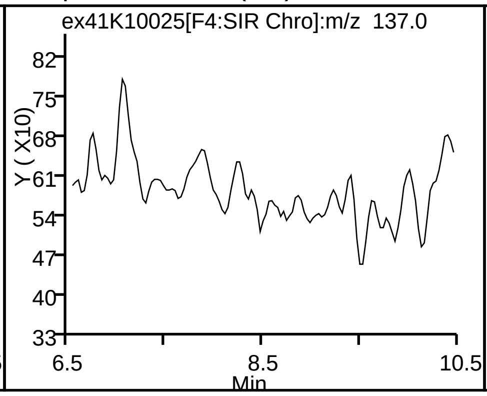
21 3,5-Dinitrotoluene (ND)



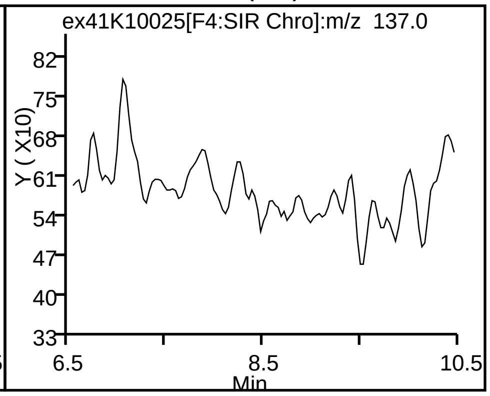
22 o-Nitrotoluene (ND)



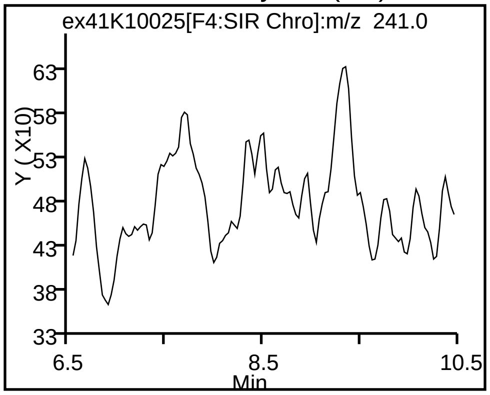
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-22438-2 Analy Batch No.: 95626

SDG No.:

Instrument ID: LC_LCMS4 GC Column: IonPac ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/10/2011 10:21 Calibration End Date: 11/10/2011 11:34 Calibration ID: 7774

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 280-95626/1	ex41K10003.d
Level 2	STD010 280-95626/2	ex41K10004.d
Level 3	STD025 280-95626/3	ex41K10005.d
Level 4	STD050 280-95626/4	ex41K10006.d
Level 5	STD100 280-95626/5	ex41K10007.d
Level 6	STD200 280-95626/6	ex41K10008.d
Level 7	STD300 280-95626/7	ex41K10009.d

ANALYTE	RRF LVL 1 / LVL 6	LVL 2 / LVL 7	LVL 3	LVL 4	LVL 5	CURVE TYPE	COEFFICIENT B	M1	M2	#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
HMX	2.4330 2.0979	2.0602 2.0967	2.0973	2.0396	1.9368	Lin1	0.8454	2.0631							0.9990		0.9900
RDX	1.0130 0.9065	0.9156 0.9680	1.0344	1.0001	0.9811	Lin1	0.3986	0.9523							0.9980		0.9900
1,3,5-Trinitrobenzene	0.8423 1.0511	0.8361 1.0941	0.9916	0.9102	0.9639	Lin1	-1.928	1.0598							0.9970		0.9900
Tetryl	1.1025 1.3927	0.9735 1.2795	1.0923	1.0141	1.2815	Lin1	-2.685	1.3084							0.9940		0.9900
1,3-Dinitrobenzene	1.0956 1.0809	1.0191 1.1480	1.0366	0.9803	1.0321	Lin1	-0.860	1.1020							0.9970		0.9900
Nitroglycerin	6.2971 6.3330	6.1092 6.1139	6.8165	6.8053	6.4945	Lin1	2.6160	6.2833							0.9990		0.9900
2,4,6-Trinitrotoluene	4.3641 4.6390	3.9293 5.1366	4.4821	4.4383	5.0176	Lin1	-6.961	4.9486							0.9970		0.9900
Nitrobenzene	0.9808 0.9322	0.7509 0.9267	0.8144	0.7589	0.8884	Lin1	-0.905	0.9136							0.9970		0.9900
4-Amino-2,6-dinitrotoluene	1.1015 1.3083	1.4144 1.4044	1.0711	1.4037	1.2258	Lin1	-1.369	1.3506							0.9960		0.9900
2-Amino-4,6-dinitrotoluene	1.6985 1.8553	1.8958 1.9717	1.8104	2.1404	1.7695	Lin1	-0.788	1.9199							0.9970		0.9900
2,6-Dinitrotoluene	2.2806 2.5562	2.4642 2.6334	2.4567	2.6421	2.3693	Lin1	-1.731	2.5795							0.9990		0.9900
2,4-Dinitrotoluene	1.0846 1.3267	1.2241 1.2636	1.2004	1.3344	1.3001	Lin1	-0.924	1.2975							0.9990		0.9900
PETN	2.5508 2.2267	2.5238 2.2298	2.5665	2.7091	2.2613	Lin1	3.4395	2.2520							0.9970		0.9900
2-Nitrotoluene	0.4391 0.5168	0.5144 0.5609	0.4874	0.5247	0.4943	Lin1	-0.592	0.5377							0.9970		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Denver Job No.: 280-22438-2 Analy Batch No.: 95626

SDG No.:

Instrument ID: LC_LCMS4 GC Column: IonPac ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/10/2011 10:21 Calibration End Date: 11/10/2011 11:34 Calibration ID: 7774

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Nitrotoluene	0.3767 0.4517	0.4207 0.4932	0.4194	0.4388	0.4177	Lin1	-0.692	0.4688							0.9960		0.9900
3-Nitrotoluene	0.2551 0.2771	0.2848 0.3088	0.2788	0.2909	0.2656	Lin1	-0.227	0.2925							0.9960		0.9900
Nitrobenzene-d5	1.2296 1.1041	1.0262 1.1602	1.2265	1.0455	1.1098	Lin1	-0.010	1.1294							0.9980		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-22438-2 Analy Batch No.: 95626

SDG No.:

Instrument ID: LC_LCMS4 GC Column: IonPac ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/10/2011 10:21 Calibration End Date: 11/10/2011 11:34 Calibration ID: 7774

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD005 280-95626/1	ex41K10003.d
Level 2	STD010 280-95626/2	ex41K10004.d
Level 3	STD025 280-95626/3	ex41K10005.d
Level 4	STD050 280-95626/4	ex41K10006.d
Level 5	STD100 280-95626/5	ex41K10007.d
Level 6	STD200 280-95626/6	ex41K10008.d
Level 7	STD300 280-95626/7	ex41K10009.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
HMX	HXC4	Lin1	42679 1059766	70974 1398185	150748	339681	559636	5.00 200	10.0 300	25.0	50.0	100
RDX	HHTT	Lin1	60709 1764928	102819 2420123	267604	590097	1001886	4.94 197	9.87 296	24.7	49.4	98.7
1,3,5-Trinitrobenzene	DNB4	Lin1	32103 1435163	66749 2180559	159615	358761	637926	5.01 200	10.0 300	25.0	50.1	100
Tetryl	DNB4	Lin1	41725 1888316	77172 2532265	174591	396931	842247	4.97 199	9.94 298	24.9	49.7	99.4
1,3-Dinitrobenzene	DNB4	Lin1	42296 1494979	82415 2317734	169019	391390	691970	5.07 203	10.1 304	25.4	50.7	101
Nitroglycerin	DNB4	Lin1	239756 8638301	487217 12173102	1096117	2679639	4294053	5.00 200	10.0 300	25.0	50.0	100
2,4,6-Trinitrotoluene	DNB4	Lin1	166325 6333988	313676 10237439	721459	1749352	3320878	5.01 200	10.0 300	25.0	50.1	100
Nitrobenzene	DNB4	Lin1	37307 1270289	59826 1843293	130823	298516	586822	5.00 200	9.99 300	25.0	50.0	99.9
4-Amino-2,6-dinitrotoluene	DNT3	Lin1	131163 5084575	283493 8278720	591893	1330811	2427603	4.94 197	9.87 296	24.7	49.4	98.7
2-Amino-4,6-dinitrotoluene	DNT3	Lin1	205121 7312661	385368 11787132	1014620	2058020	3554032	5.01 200	10.0 300	25.0	50.1	100
2,6-Dinitrotoluene	DNT3	Lin1	275420 10075292	500913 15743371	1376882	2540404	4758836	5.01 200	10.0 300	25.0	50.1	100
2,4-Dinitrotoluene	DNT3	Lin1	131250 5239846	249328 7569395	674096	1285651	2616577	5.02 201	10.0 301	25.1	50.2	100
PETN	DNT3	Lin1	307129 8750290	511484 13290310	1434105	2597060	4528239	4.99 200	9.98 299	25.0	49.9	99.8
2-Nitrotoluene	DNT3	Lin1	52504 2016518	103528 3319727	270430	499423	982843	4.96 198	9.91 297	24.8	49.6	99.1
4-Nitrotoluene	DNT3	Lin1	45215 1769682	84997 2930786	233656	419399	833939	4.98 199	9.95 299	24.9	49.8	99.5

FORM VI
LCMS INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-22438-2 Analy Batch No.: 95626

SDG No.:

Instrument ID: LC_LCMS4 GC Column: IonPac ID: 2(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/10/2011 10:21 Calibration End Date: 11/10/2011 11:34 Calibration ID: 7774

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
3-Nitrotoluene	DNT3	Lin1	30403 1078061	57140 1821860	154225	276086	526498	4.94 198	9.88 296	24.7	49.4	98.8
Nitrobenzene-d5	DNB4	Lin1	46828 1506354	81859 2310496	197267	411773	733966	5.00 200	10.0 300	25.0	50.0	100

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10003.d		
Lims ID:	STD005	Client ID:	
Inject. Date:	10-Nov-2011 10:21:34	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	11/10/11EX1 STD005 ug/L 280-0002741-001		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	2
Lims Batch ID:	95626	Lims Sample ID:	1
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:06	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

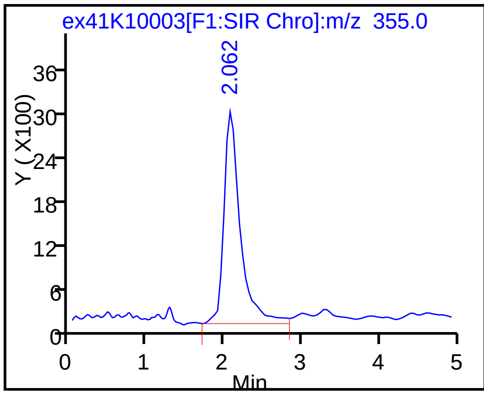
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	42679	5.49			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		877093	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	60709	4.83			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		3035887	250.0			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.799	3.759	0.040	1.000	32103	5.80			
	6 Tetryl									
2	241.0	4.469	4.469	0.000	0.895	41725	6.24			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.994	4.954	0.040		1969943	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	4.994	4.994	0.000	1.000	42296	5.82			
	9 Nitroglycerin									
2	61.8	5.034	5.035	-0.001	1.008	239756	4.60			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.405	5.405	0.000	1.082	166325	5.82			
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.102	46828	5.45			
	12 Nitrobenzene									
2	123.0	5.607	5.607	0.000	1.123	37307	6.35			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.122	6.088	0.034	0.850	131163	5.04			
	16 2-Amino-4,6-dinitrotoluene									
3	197.0	6.715	6.685	0.030	0.932	205121	4.84			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.837	0.030	0.954	275420	5.10			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		6032415	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.262	0.030	1.013	131250	4.90			
20 PETN										
4	61.8	7.737	7.707	0.030	1.000	307129	4.12			
22 o-Nitrotoluene										
4	137.0	8.254	8.223	0.031	1.000	52504	5.15			
23 p-Nitrotoluene										
4	137.0	8.800	8.770	0.030	1.000	45215	5.47			
24 m-Nitrotoluene										
4	137.0	9.468	9.438	0.030	1.000	30403	5.08			

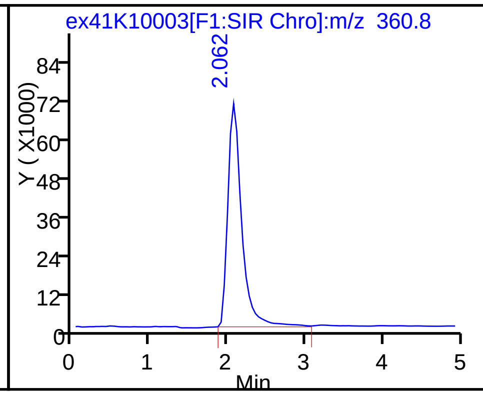
Report Date: 11-Nov-2011 06:40:07 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10003.d

Injection Date:	10-Nov-2011 10:21:34	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	1
Operator ID:		Injection Vol:	40.00 ul

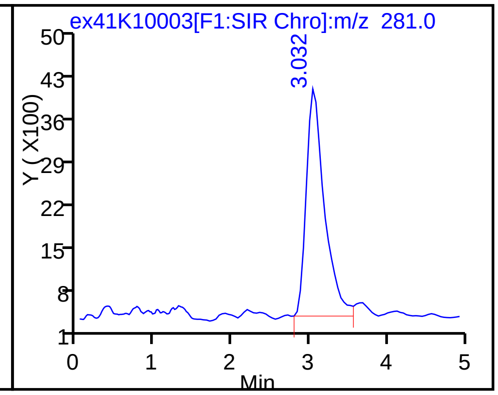
2 HMX



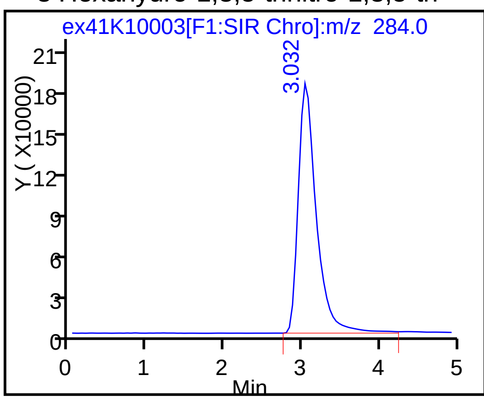
* 1 HMX-13C4



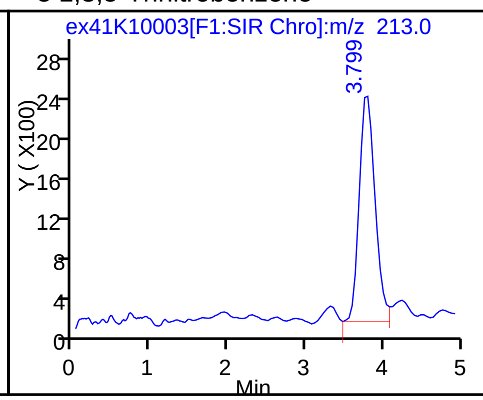
4 RDX



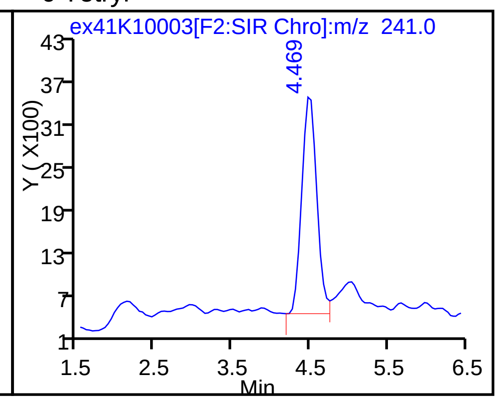
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



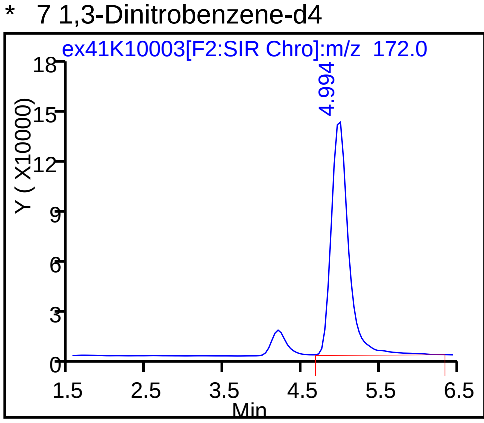
5 1,3,5-Trinitrobenzene



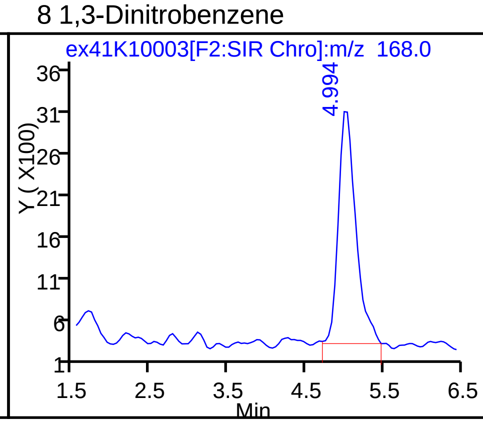
6 Tetryl



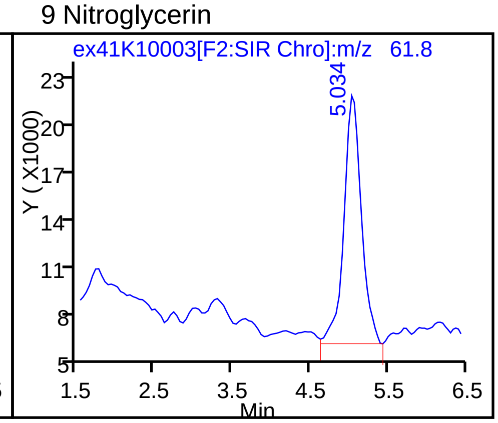
* 7 1,3-Dinitrobenzene-d4



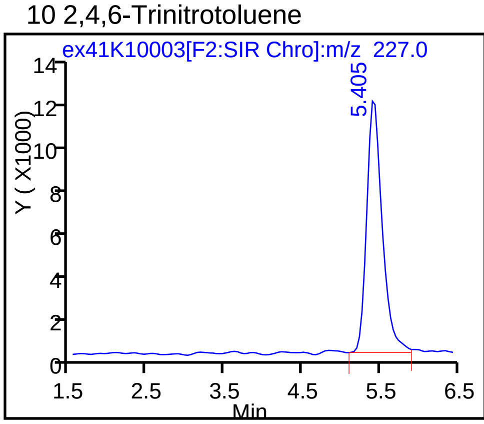
8 1,3-Dinitrobenzene



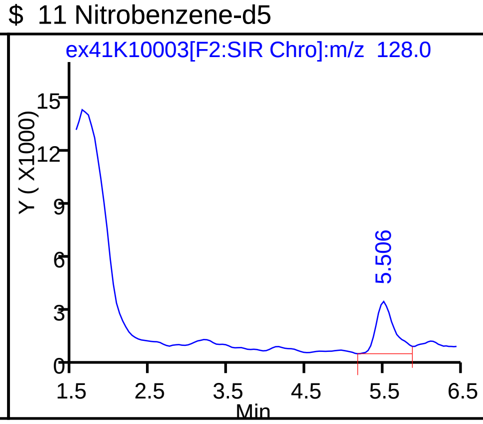
9 Nitroglycerin



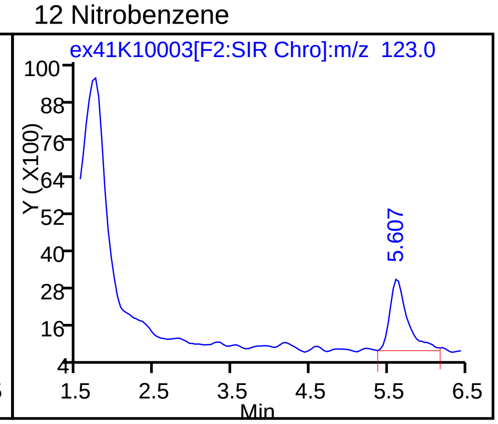
10 2,4,6-Trinitrotoluene



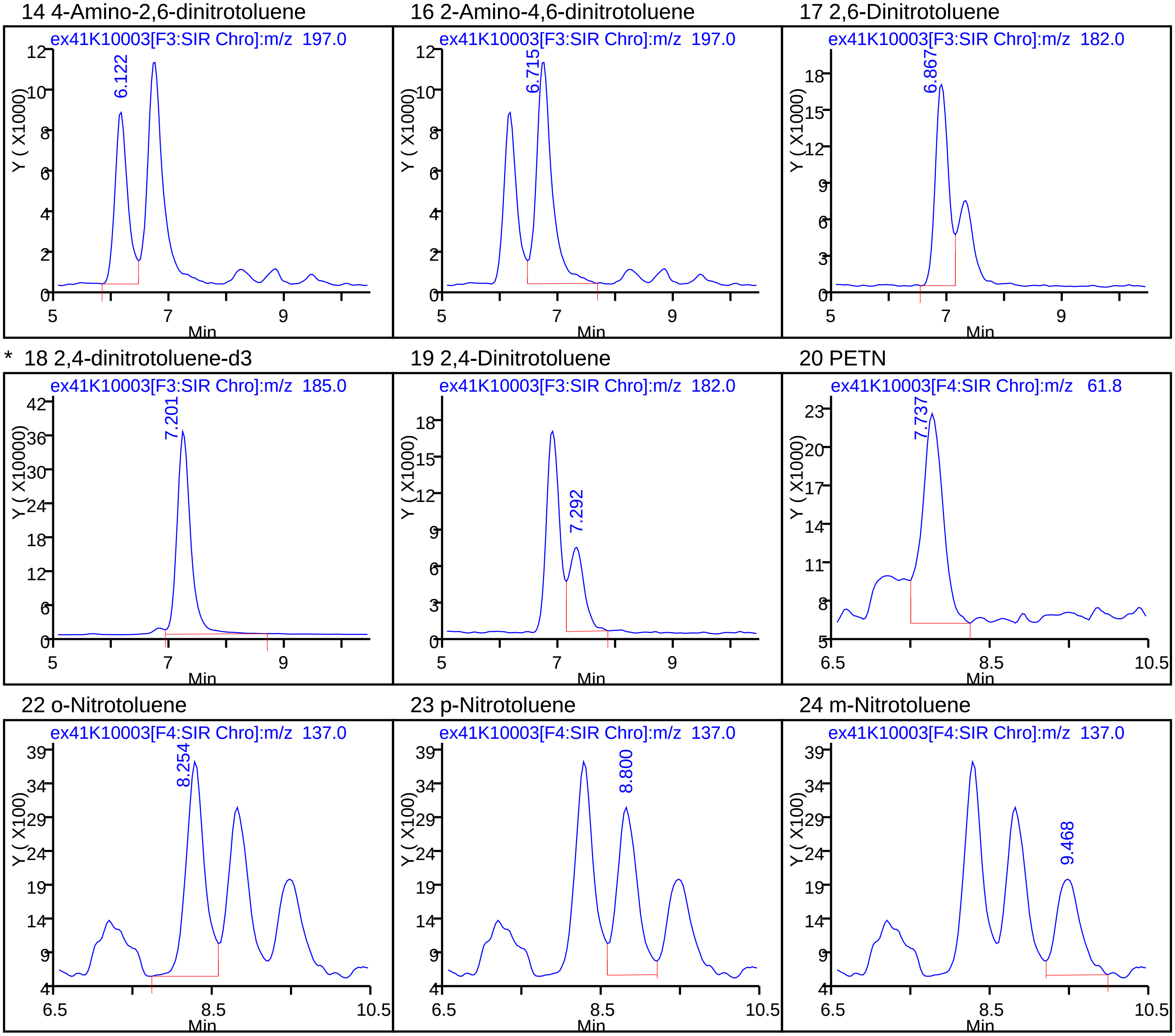
$ 11 Nitrobenzene-d5



12 Nitrobenzene



Report Date: 11-Nov-2011 06:40:07 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10003.d



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10004.d		
Lims ID:	STD010	Client ID:	
Inject. Date:	10-Nov-2011 10:33:39	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	11/10/11EX2 STD010 ug/L 280-0002741-002		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	3
Lims Batch ID:	95626	Lims Sample ID:	2
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:07	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

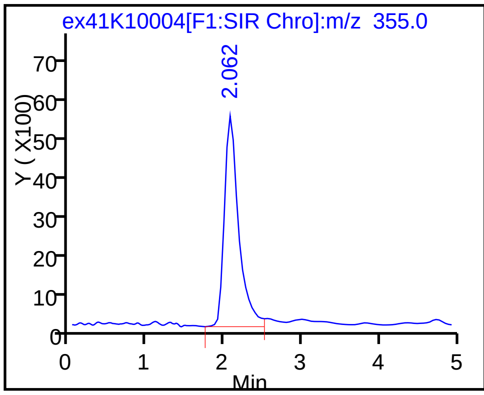
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	70974	9.58			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		861257	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	102819	9.07			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2844519	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	66749	9.72			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.895	77172	9.45			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		2063162	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.035	4.994	0.041	1.008	82415	10.2			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.008	487217	9.31			
10 2,4,6-Trinitrotoluene										
2	227.0	5.439	5.405	0.034	1.089	313676	9.36			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.102	81859	9.10			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.123	59826	9.20			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.845	283493	11.4			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	385368	10.3			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.837	0.030	0.954	500913	10.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5076741	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.262	0.000	1.008	249328	10.2			
20 PETN										
4	61.8	7.737	7.707	0.030	1.000	511484	9.66			
22 o-Nitrotoluene										
4	137.0	8.254	8.223	0.031	1.000	103528	10.6			
23 p-Nitrotoluene										
4	137.0	8.800	8.770	0.030	1.000	84997	10.4			
24 m-Nitrotoluene										
4	137.0	9.468	9.438	0.030	1.000	57140	10.4			

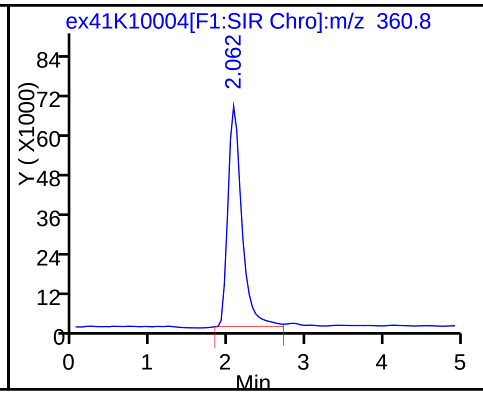
Report Date: 11-Nov-2011 06:40:08 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10004.d		
Injection Date:	10-Nov-2011 10:33:39	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	2
Operator ID:		Injection Vol:	40.00 ul

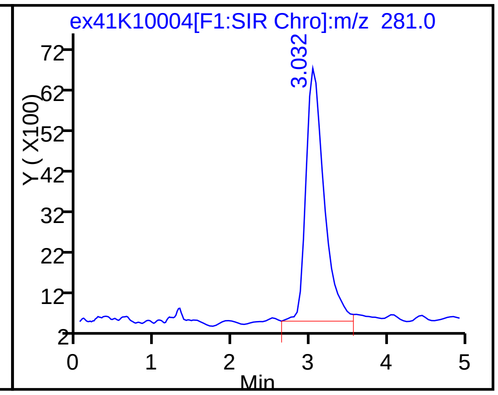
2 HMX



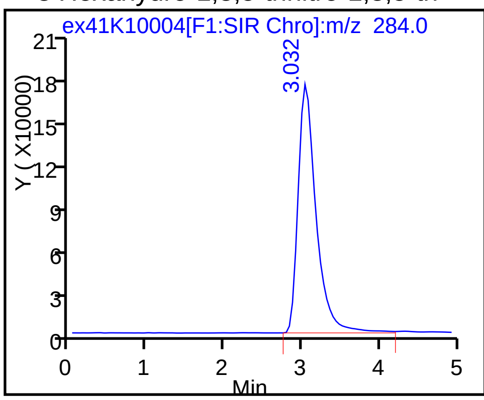
* 1 HMX-13C4



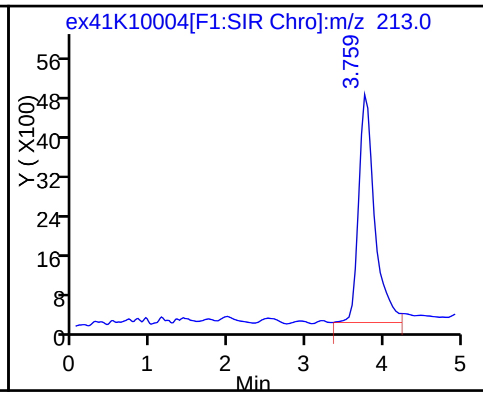
4 RDX



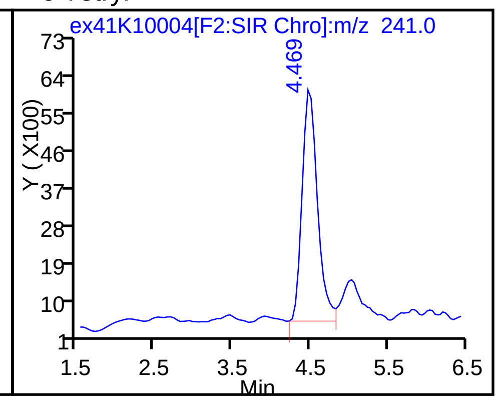
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



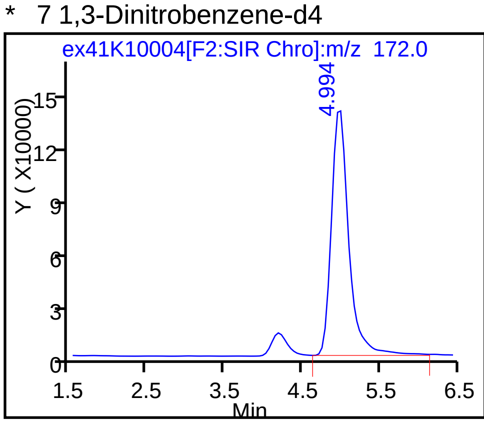
5 1,3,5-Trinitrobenzene



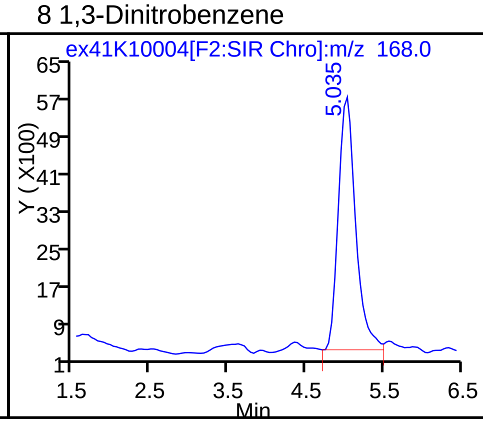
6 Tetryl



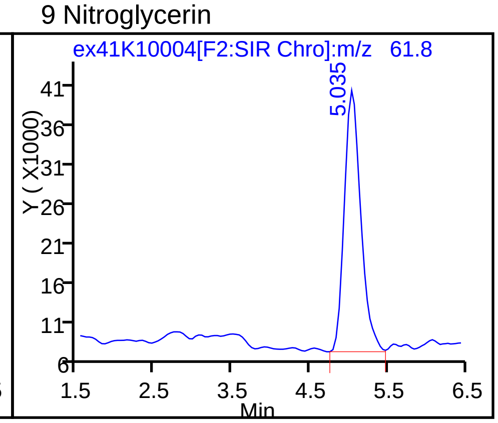
* 7 1,3-Dinitrobenzene-d4



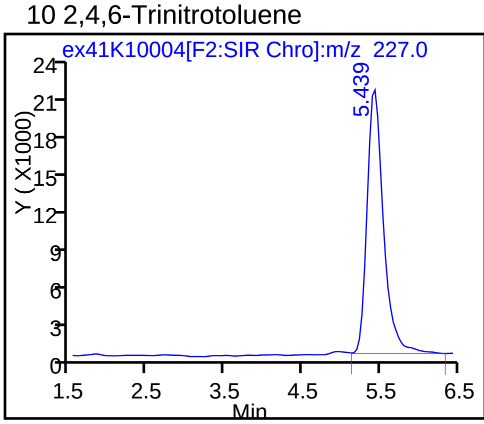
8 1,3-Dinitrobenzene



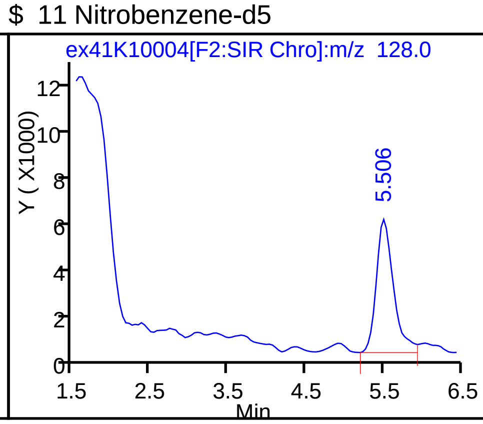
9 Nitroglycerin



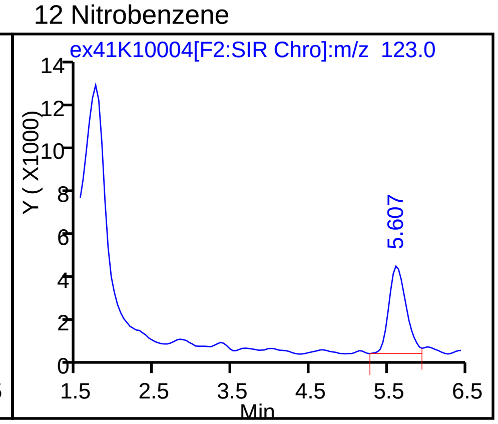
10 2,4,6-Trinitrotoluene



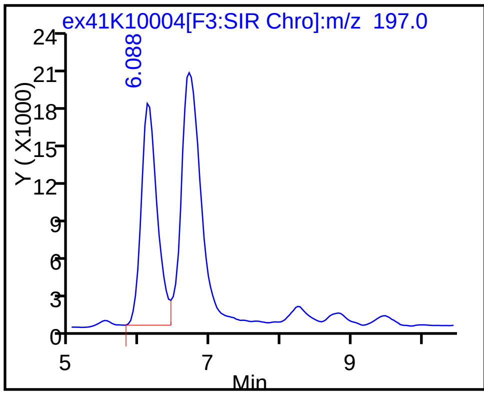
$ 11 Nitrobenzene-d5



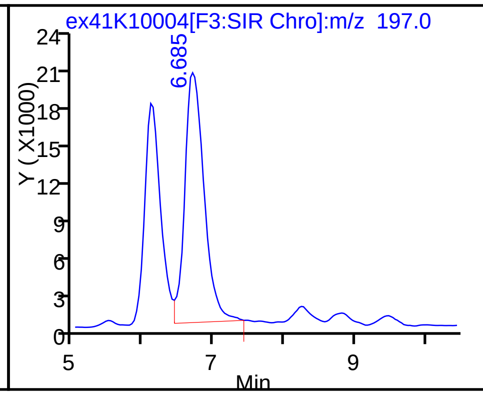
12 Nitrobenzene



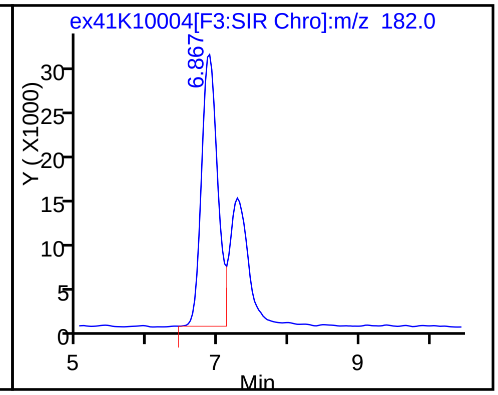
14 4-Amino-2,6-dinitrotoluene



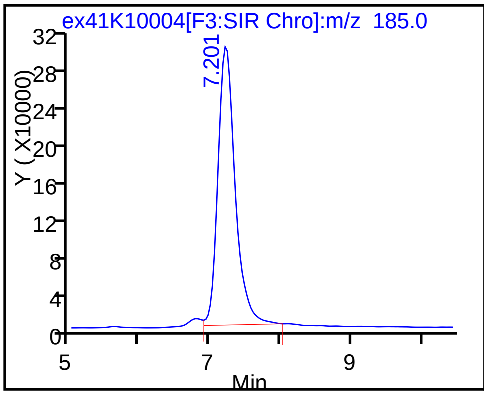
16 2-Amino-4,6-dinitrotoluene



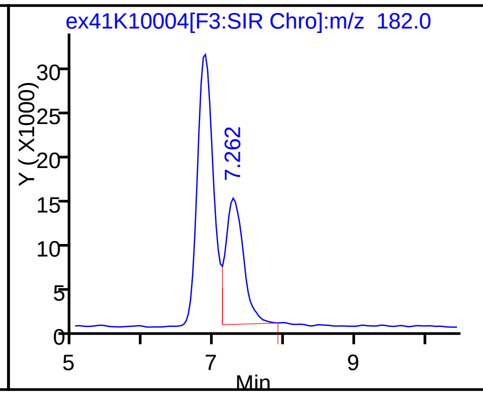
17 2,6-Dinitrotoluene



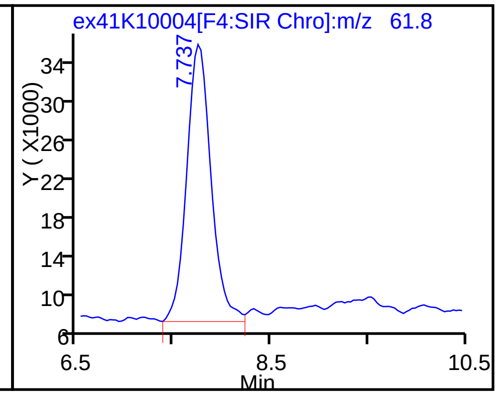
* 18 2,4-dinitrotoluene-d3



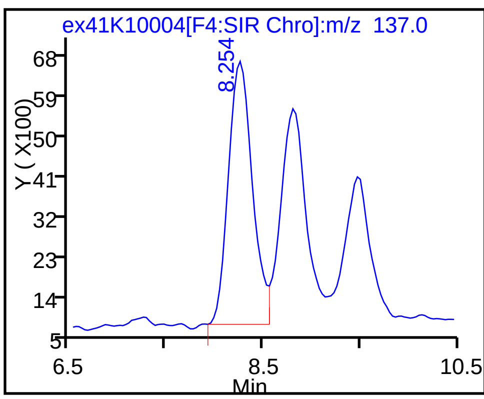
19 2,4-Dinitrotoluene



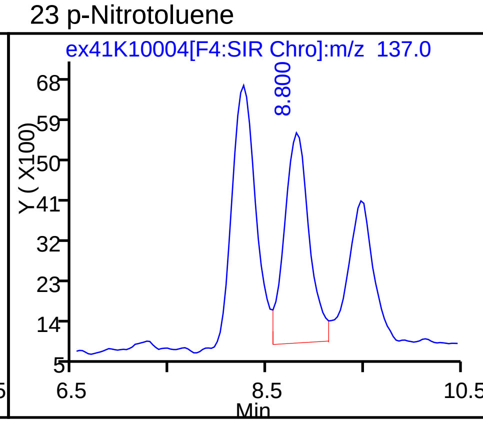
20 PETN



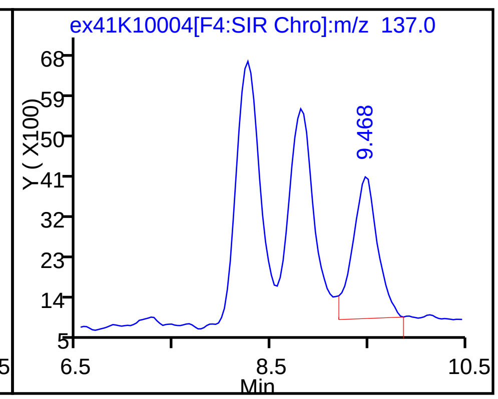
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10005.d
Lims ID: STD025 Client ID:
Inject. Date: 10-Nov-2011 10:45:44 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 11/10/11EX3 STD025 ug/L 280-0002741-003
Misc. Info.: ex41K10 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 4
Lims Batch ID: 95626 Lims Sample ID: 3
Sublist: chrom-8321exp4-25*sub4
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m
Last Update: 11-Nov-2011 06:40:08 Calib Date: 10-Nov-2011 11:34:20
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

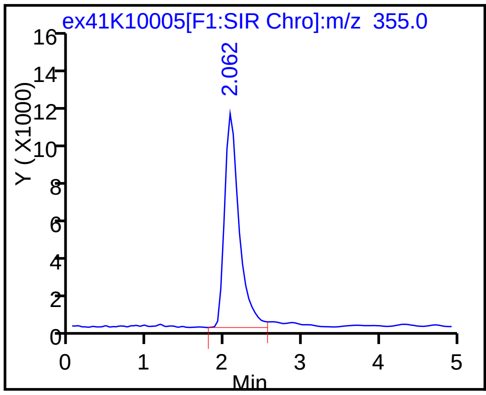
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	150748	25.0			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		718763	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	267604	26.4			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2621052	250.0			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	159615	25.2			
	6 Tetryl									
2	241.0	4.469	4.469	0.000	0.902	174591	22.8			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		1663994	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	5.034	4.994	0.040	1.016	169019	24.6			
	9 Nitroglycerin									
2	61.8	5.034	5.035	-0.001	1.016	1096117	26.7			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.405	5.405	0.000	1.091	721459	24.1			
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.111	197267	27.2			
	12 Nitrobenzene									
2	123.0	5.607	5.607	0.000	1.132	130823	23.3			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.122	6.088	0.034	0.850	591893	20.6			
	16 2-Amino-4,6-dinitrotoluene									
3	197.0	6.685	6.685	0.000	0.928	1014620	24.0			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.837	0.030	0.954	1376882	24.5			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5598908	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.262	0.030	1.013	674096	23.9			
20 PETN										
4	61.8	7.737	7.707	0.030	1.000	1434105	26.9			
22 o-Nitrotoluene										
4	137.0	8.254	8.223	0.031	1.000	270430	23.6			
23 p-Nitrotoluene										
4	137.0	8.800	8.770	0.030	1.000	233656	23.7			
24 m-Nitrotoluene										
4	137.0	9.468	9.438	0.030	1.000	154225	24.3			

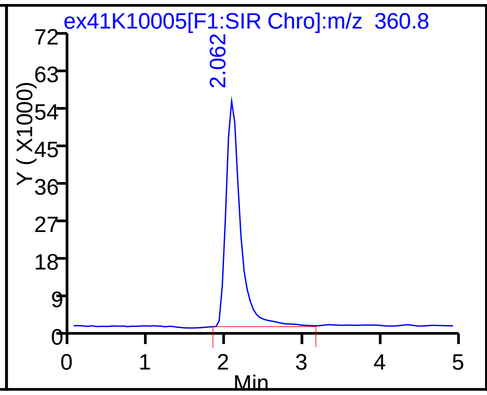
Report Date: 11-Nov-2011 06:40:09 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10005.d

Injection Date:	10-Nov-2011 10:45:44	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	3
Operator ID:		Injection Vol:	40.00 ul

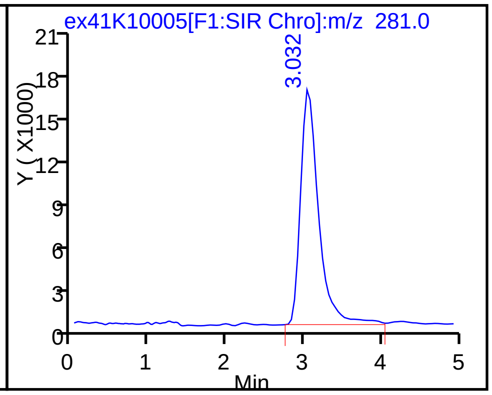
2 HMX



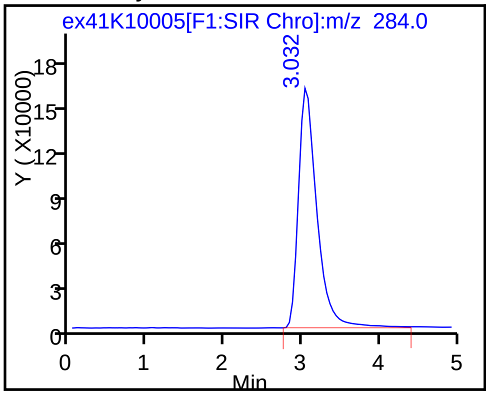
* 1 HMX-13C4



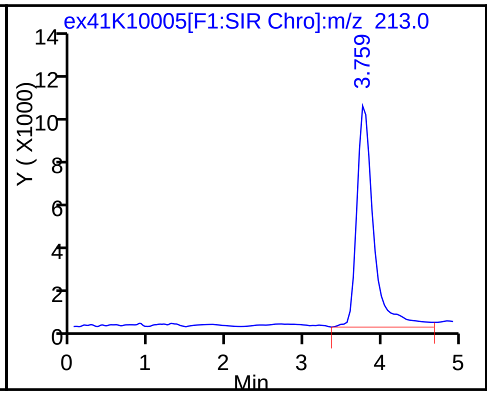
4 RDX



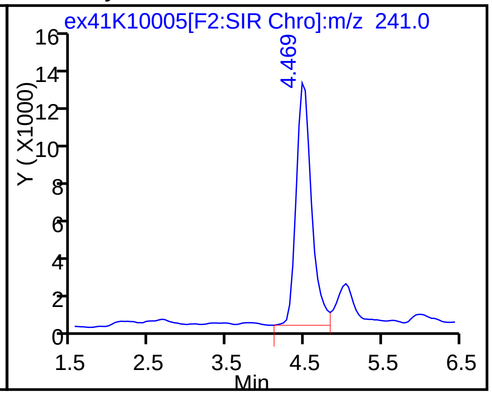
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



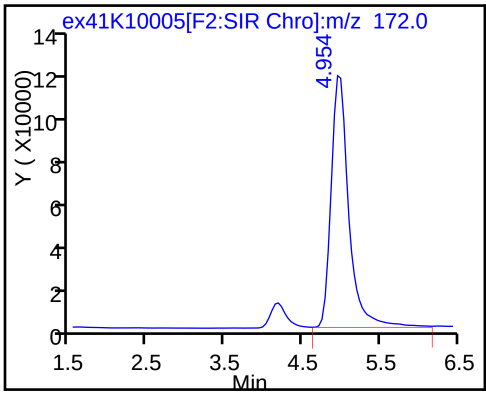
5 1,3,5-Trinitrobenzene



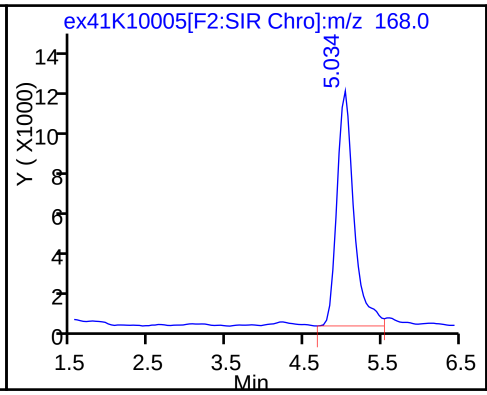
6 Tetryl



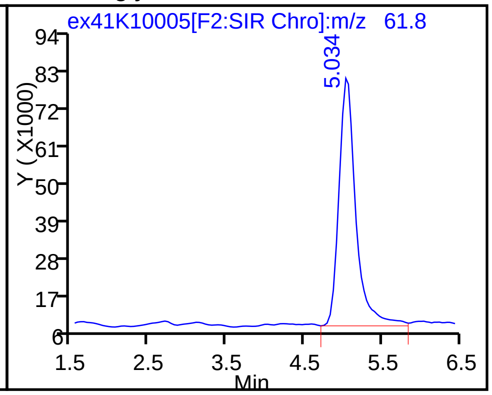
* 7 1,3-Dinitrobenzene-d4



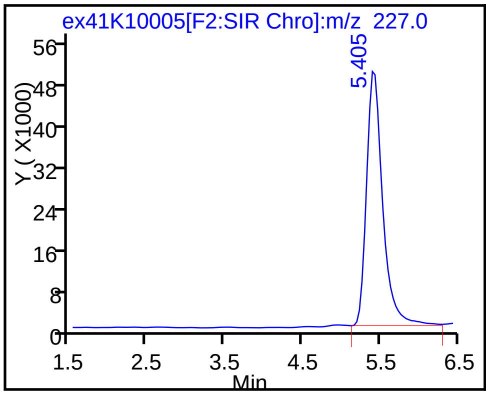
8 1,3-Dinitrobenzene



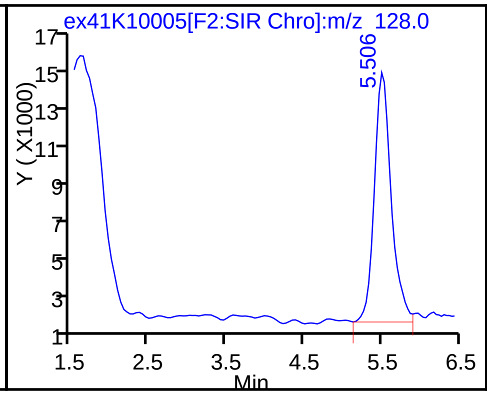
9 Nitroglycerin



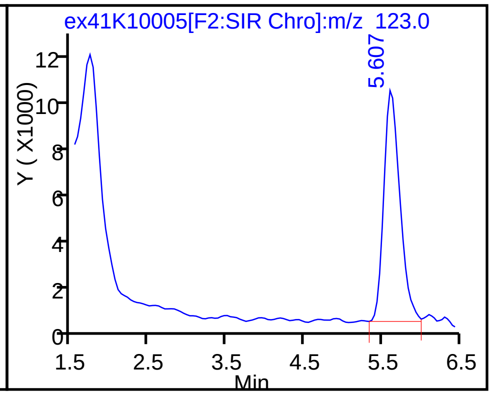
10 2,4,6-Trinitrotoluene



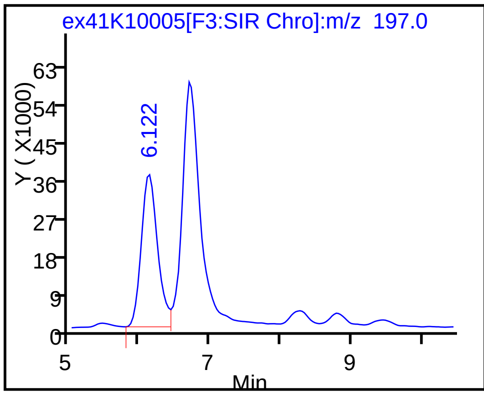
$ 11 Nitrobenzene-d5



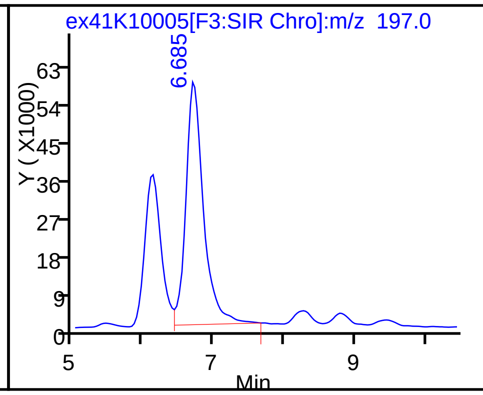
12 Nitrobenzene



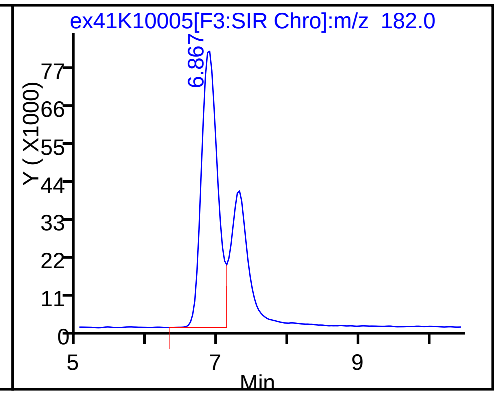
14 4-Amino-2,6-dinitrotoluene



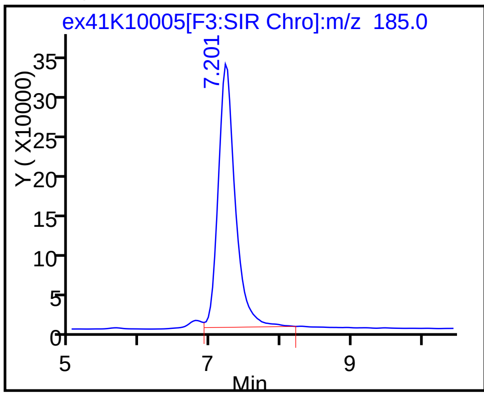
16 2-Amino-4,6-dinitrotoluene



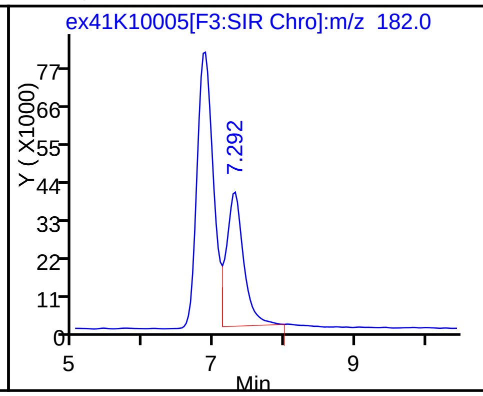
17 2,6-Dinitrotoluene



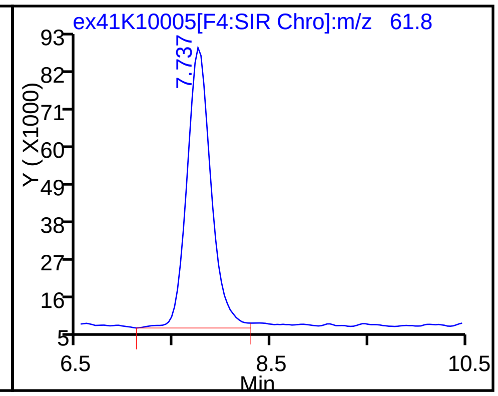
* 18 2,4-dinitrotoluene-d3



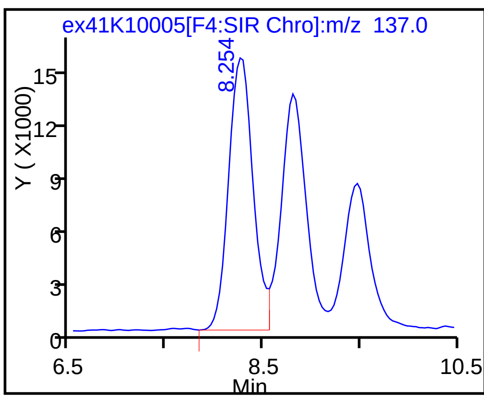
19 2,4-Dinitrotoluene



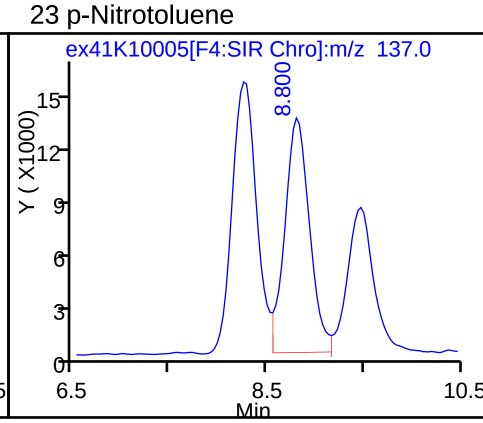
20 PETN



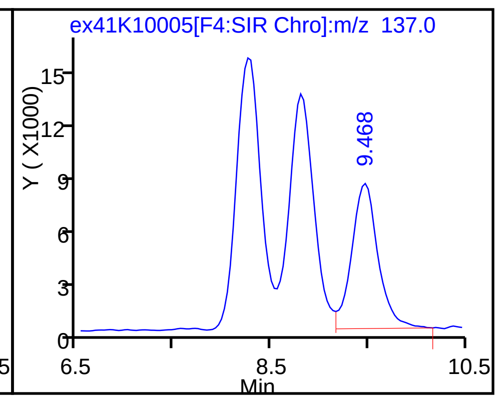
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



TestAmerica Laboratories
Target Compound Quantitation Report

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Lims ID:	STD050	Client ID:	
Inject. Date:	10-Nov-2011 10:57:49	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	11/10/11EX4 STD050 ug/L 280-0002741-004		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	95626	Lims Sample ID:	4
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:09	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	339681	49.0			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		832704	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	590097	51.4			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2989097	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	358761	44.8			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	396931	40.6			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		2037305	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.034	4.994	0.040	1.016	391390	45.9			
9 Nitroglycerin										
2	61.8	5.034	5.035	-0.001	1.016	2679639	53.7			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	1749352	46.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	411773	46.3			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	298516	42.5			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.122	6.088	0.034	0.850	1330811	52.3			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	2058020	56.2			

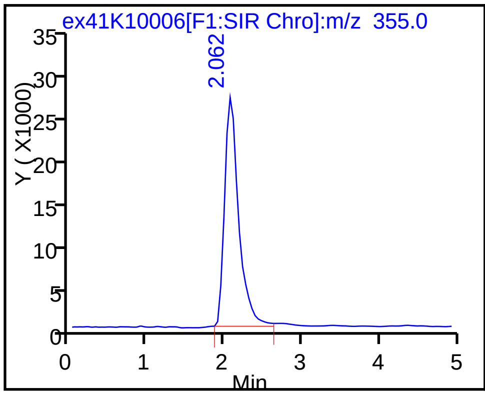
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.837	0.030	0.954	2540404	51.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		4802778	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.262	-0.001	1.008	1285651	52.3			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	2597060	58.5			
22 o-Nitrotoluene										
4	137.0	8.254	8.223	0.031	1.000	499423	49.5			
23 p-Nitrotoluene										
4	137.0	8.800	8.770	0.030	1.000	419399	48.0			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	276086	49.9			

Report Date: 11-Nov-2011 06:40:10 Chrom Revision: 1.2 13-Jul-2011 10:43:06

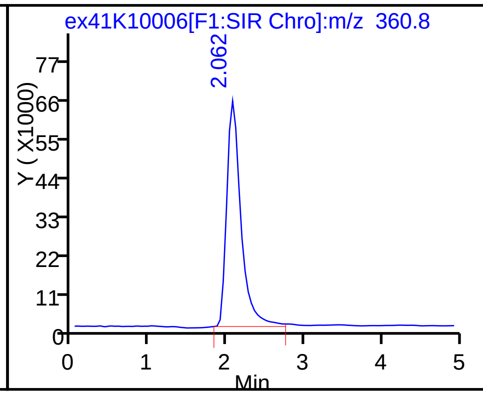
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10006.d

Injection Date:	10-Nov-2011 10:57:49	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	4
Operator ID:		Injection Vol:	40.00 ul

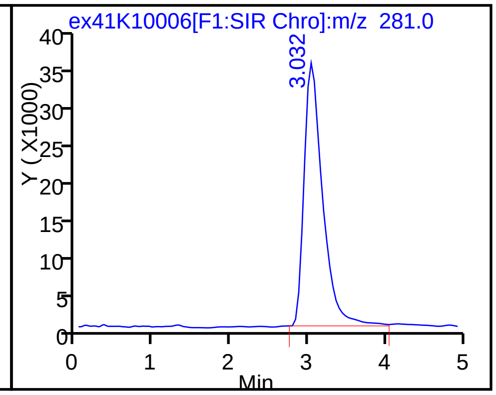
2 HMX



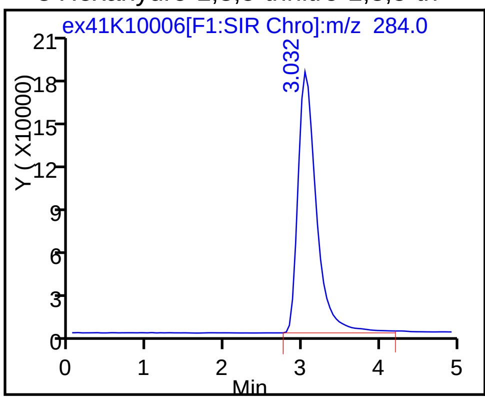
* 1 HMX-13C4



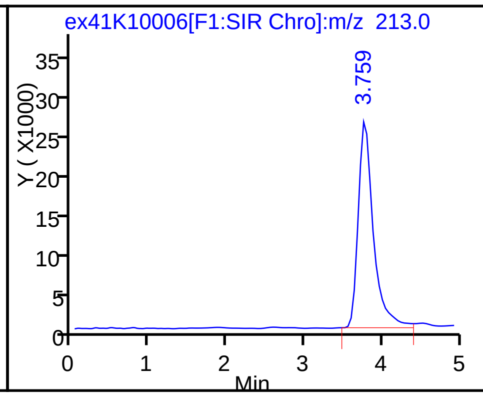
4 RDX



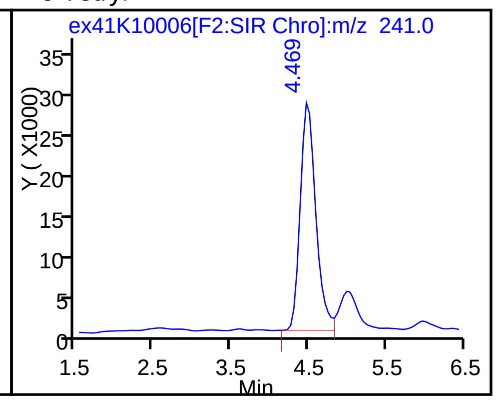
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



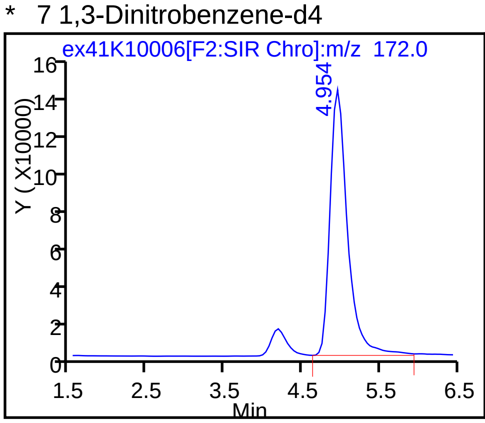
5 1,3,5-Trinitrobenzene



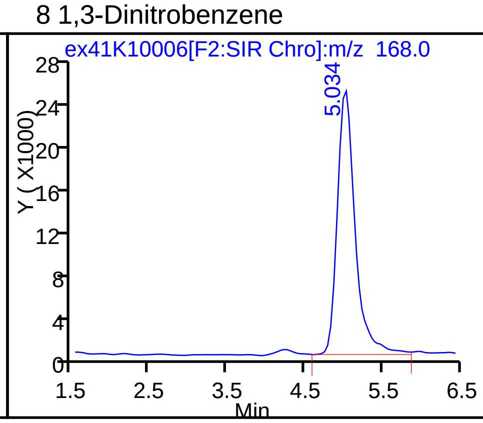
6 Tetryl



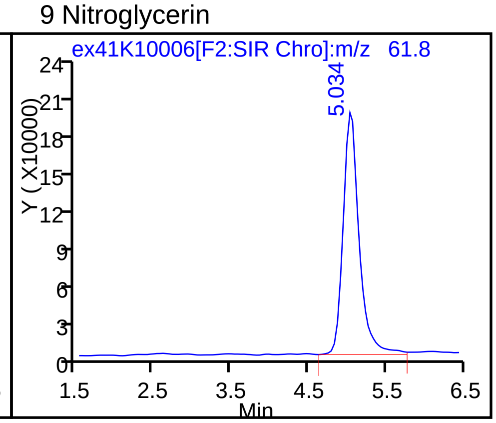
* 7 1,3-Dinitrobenzene-d4



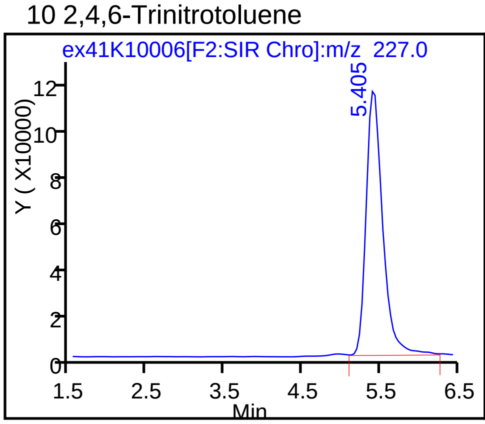
8 1,3-Dinitrobenzene



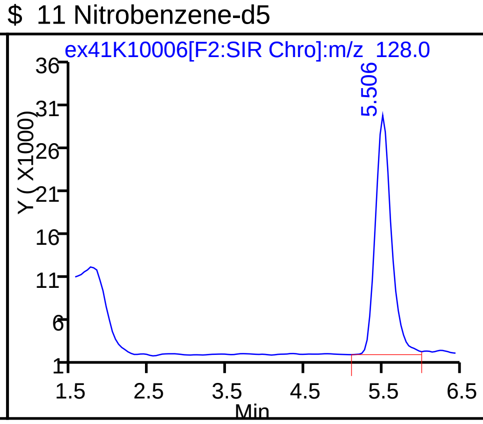
9 Nitroglycerin



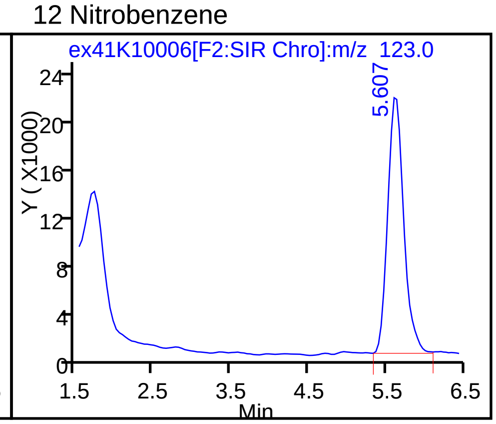
10 2,4,6-Trinitrotoluene



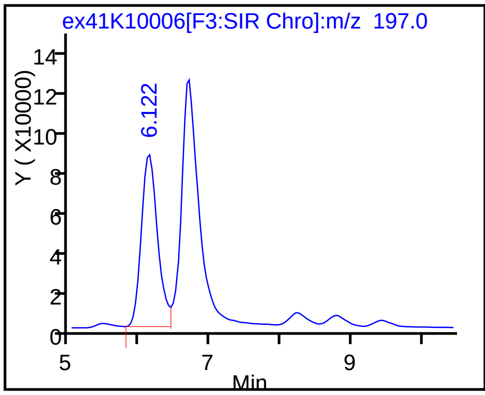
$ 11 Nitrobenzene-d5



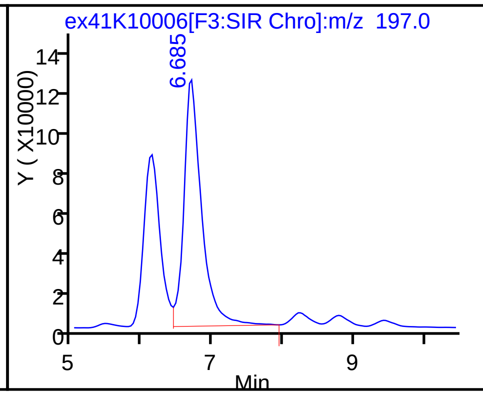
12 Nitrobenzene



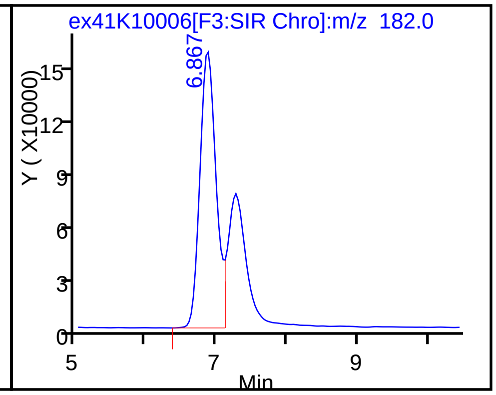
14 4-Amino-2,6-dinitrotoluene



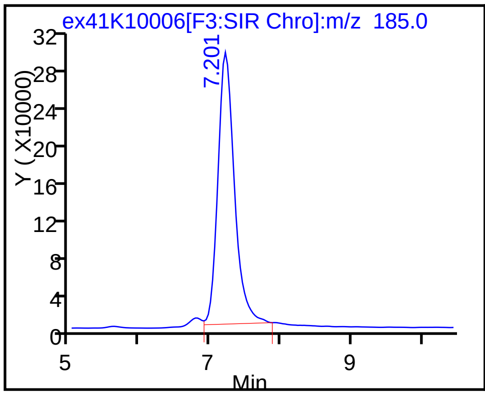
16 2-Amino-4,6-dinitrotoluene



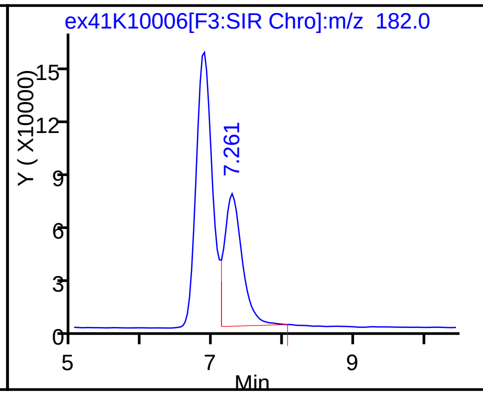
17 2,6-Dinitrotoluene



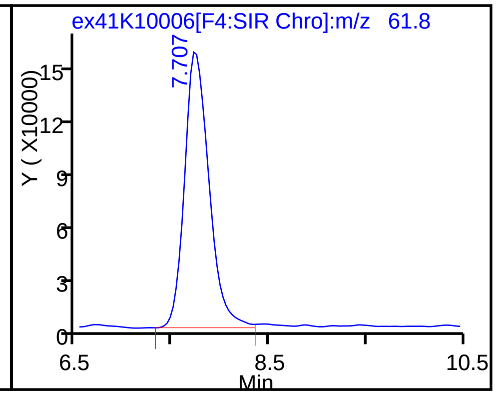
* 18 2,4-dinitrotoluene-d3



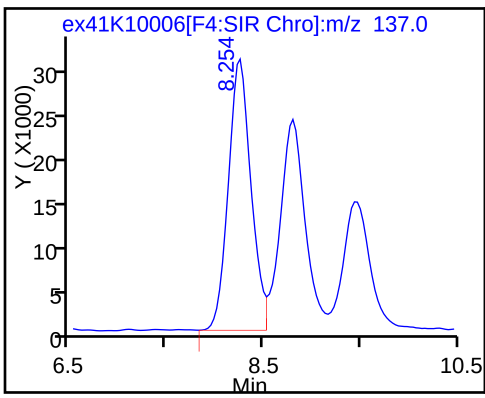
19 2,4-Dinitrotoluene



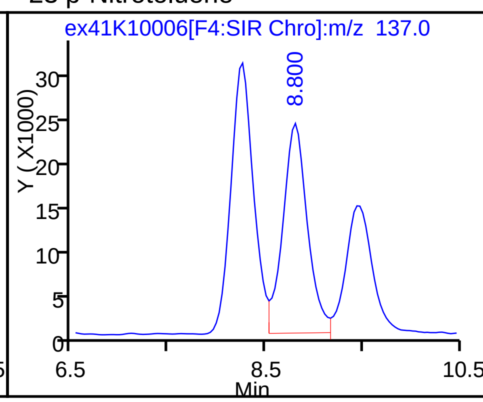
20 PETN



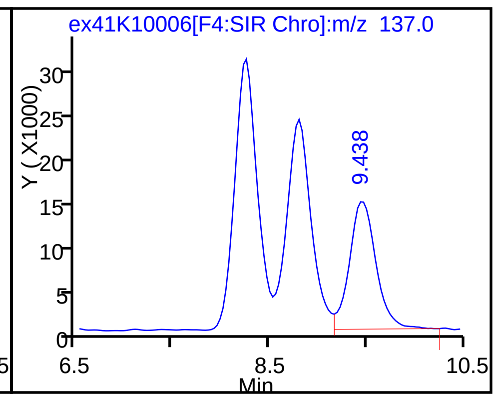
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10007.d		
Lims ID:	STD100	Client ID:	
Inject. Date:	10-Nov-2011 11:10:10	Dil. Factor:	1.0000
Sample Type:	ICISAV	Calib Level:	5
Sample ID:	11/10/11EX5 STD100 ug/L 280-0002741-005		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	95626	Lims Sample ID:	5
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:10	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 11-Nov-2011 06:38:29

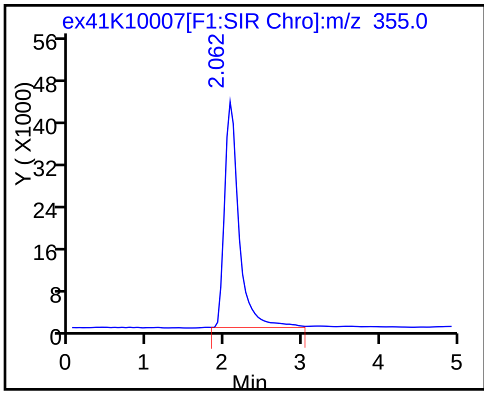
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	559636	93.5			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		722372	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	1001886	101.3			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2586698	250.0			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	637926	92.9			
	6 Tetryl									
2	241.0	4.469	4.469	0.000	0.902	842247	99.4			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		1710468	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	5.035	5.035	0.000	1.016	691970	95.8			
	9 Nitroglycerin									
2	61.8	5.035	5.035	0.000	1.016	4294053	103.0			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.405	5.405	0.000	1.091	3320878	102.9			
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.111	733966	98.3			
	12 Nitrobenzene									
2	123.0	5.607	5.607	0.000	1.132	586822	98.1			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.088	6.088	0.000	0.845	2427603	90.6			
	16 2-Amino-4,6-dinitrotoluene									
3	197.0	6.685	6.685	0.000	0.928	3554032	92.7			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.949	4758836	92.6			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5016348	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.008	2616577	101.2			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	4528239	98.7			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	982843	92.2			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	833939	90.1			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	526498	90.5			

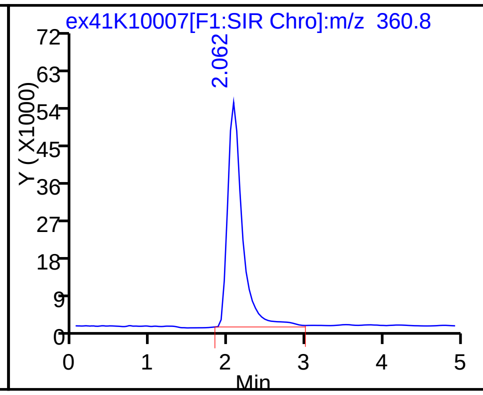
Report Date: 11-Nov-2011 06:40:11 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10007.d

Injection Date:	10-Nov-2011 11:10:10	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	5
Operator ID:		Injection Vol:	40.00 ul

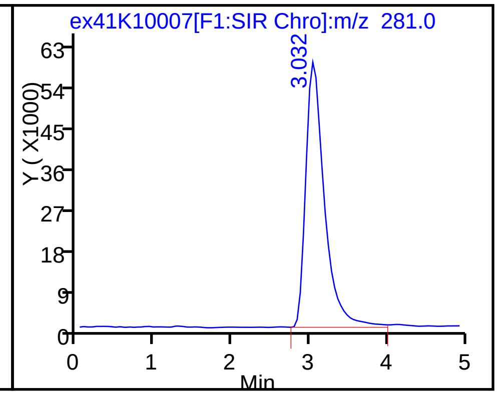
2 HMX



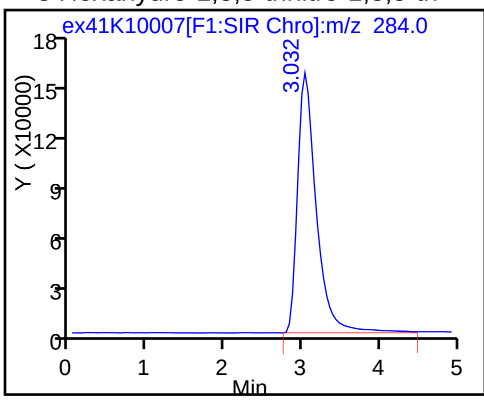
* 1 HMX-13C4



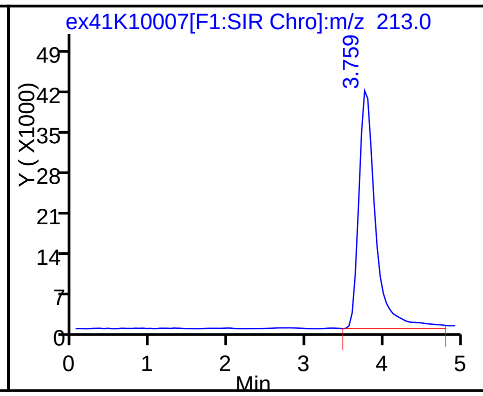
4 RDX



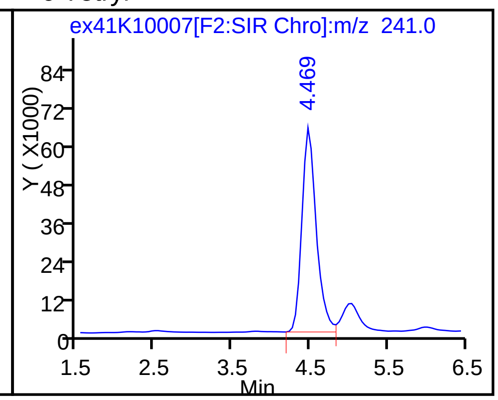
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



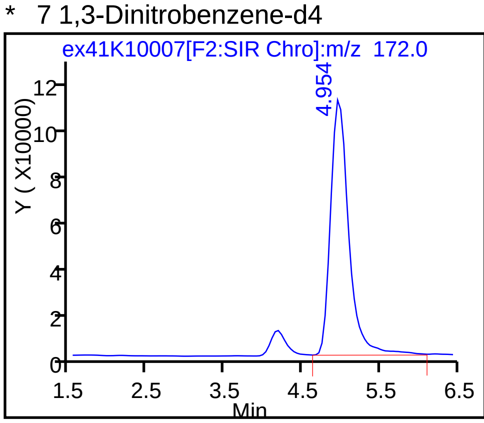
5 1,3,5-Trinitrobenzene



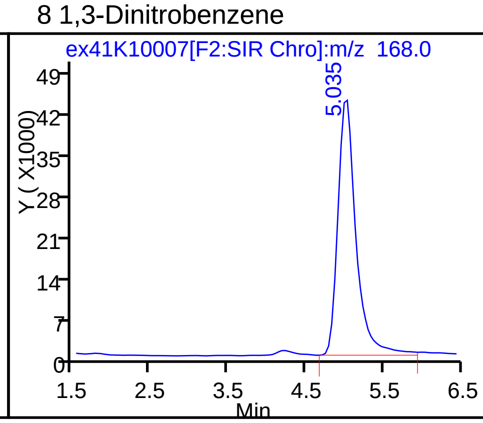
6 Tetryl



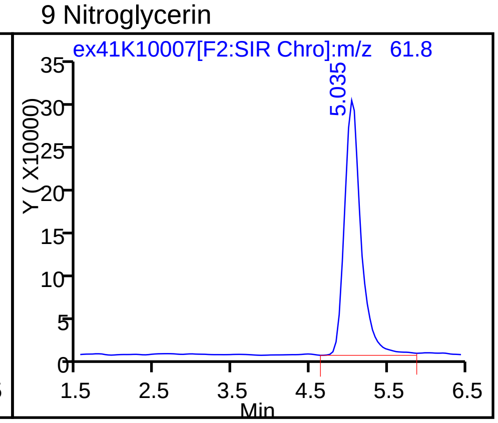
* 7 1,3-Dinitrobenzene-d4



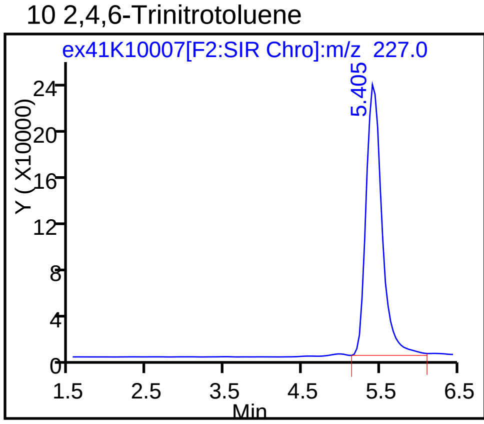
8 1,3-Dinitrobenzene



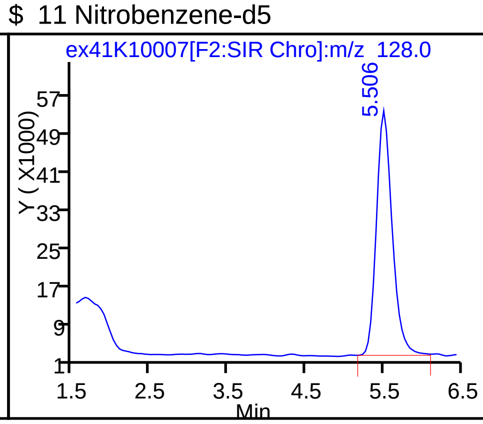
9 Nitroglycerin



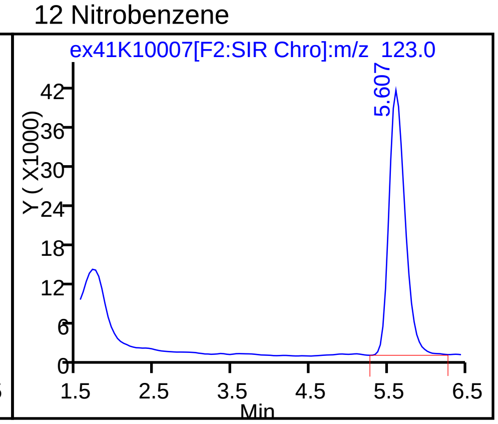
10 2,4,6-Trinitrotoluene



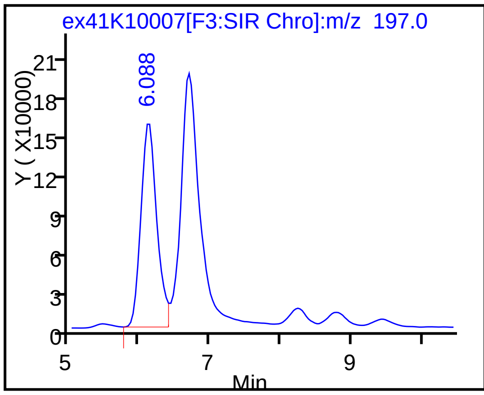
$ 11 Nitrobenzene-d5



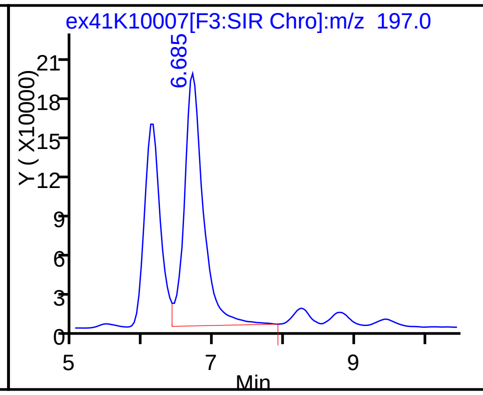
12 Nitrobenzene



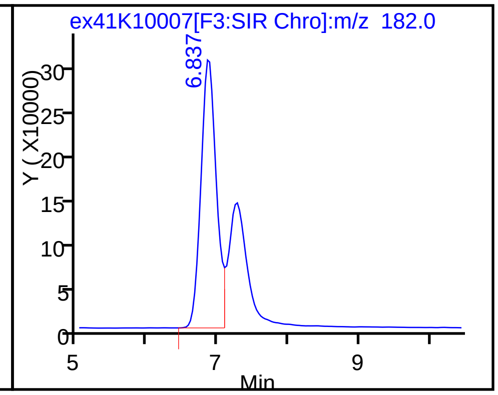
14 4-Amino-2,6-dinitrotoluene



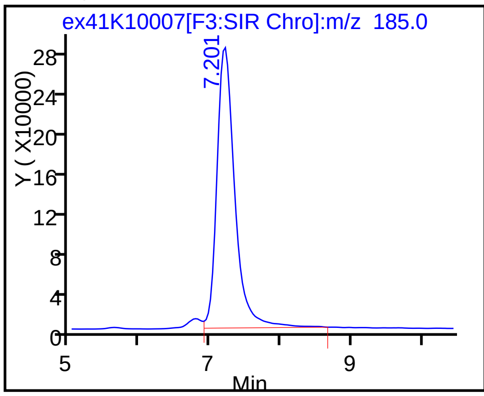
16 2-Amino-4,6-dinitrotoluene



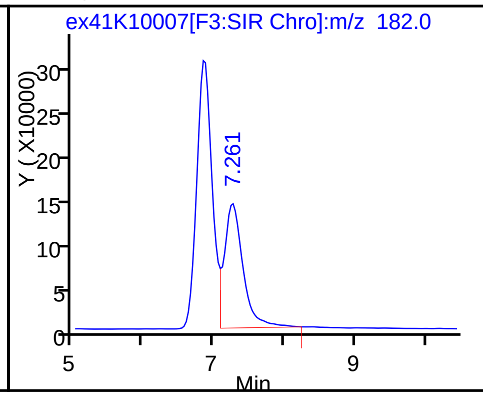
17 2,6-Dinitrotoluene



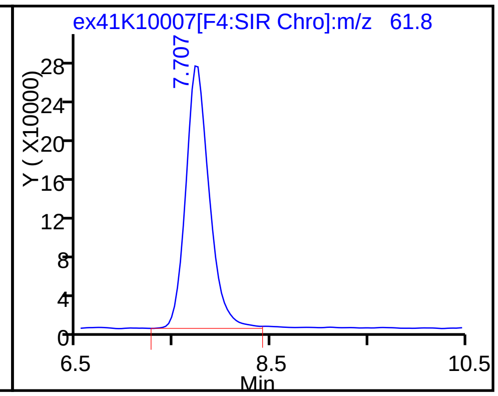
* 18 2,4-dinitrotoluene-d3



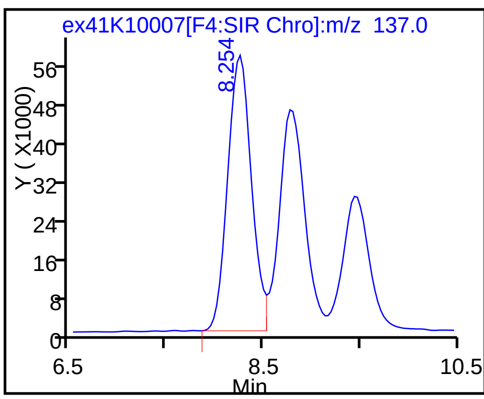
19 2,4-Dinitrotoluene



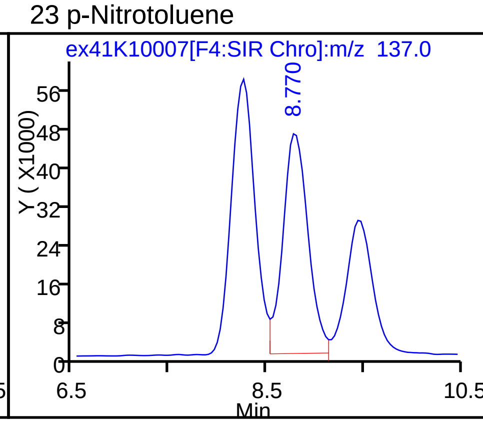
20 PETN



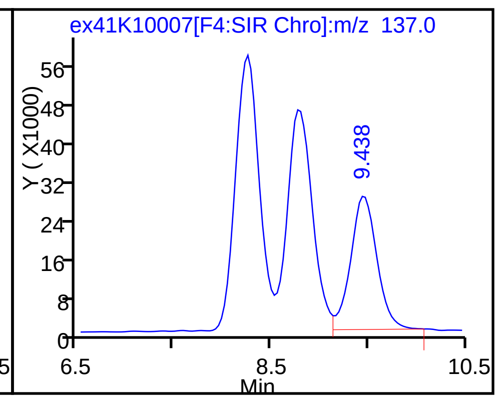
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



TestAmerica Laboratories
Target Compound Quantitation Report

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Lims ID:	STD200	Client ID:	
Inject. Date:	10-Nov-2011 11:22:15	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	11/10/11EX6 STD200 ug/L 280-0002741-006		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	7
Lims Batch ID:	95626	Lims Sample ID:	6
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:11	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

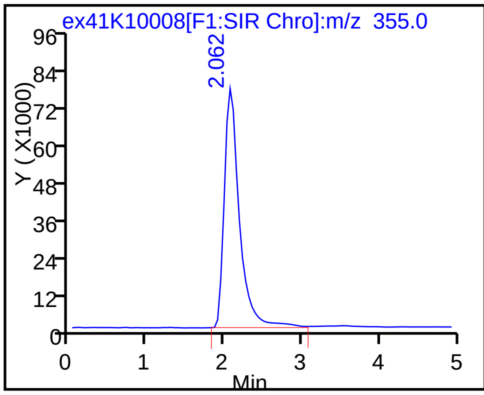
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	1059766	203.0			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		631435	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1764928	187.5			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2465694	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	1435163	200.4			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	1888316	213.7			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1764366	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	5.035	-0.041	1.008	1494979	199.7			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	8638301	201.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	6333988	189.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	1506354	195.6			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	1270289	204.9			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.849	5084575	192.2			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.654	6.685	-0.031	0.928	7312661	193.9			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.953	10075292	199.1			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.201	-0.031		4922005	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.261	0.001	1.013	5239846	205.8			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	8750290	195.8			
22 o-Nitrotoluene										
4	137.0	8.223	8.254	-0.031	1.000	2016518	191.6			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	1769682	193.2			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	1078061	188.0			

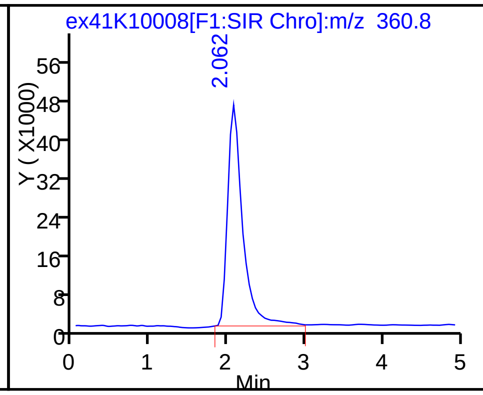
Report Date: 11-Nov-2011 06:40:12 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10008.d

Injection Date:	10-Nov-2011 11:22:15	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	6
Operator ID:		Injection Vol:	40.00 ul

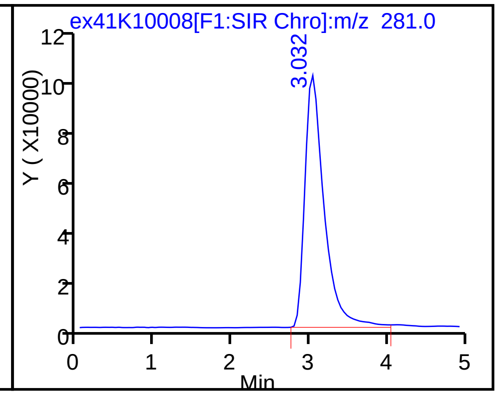
2 HMX



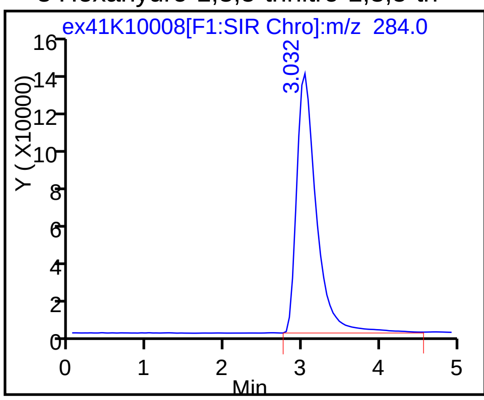
* 1 HMX-13C4



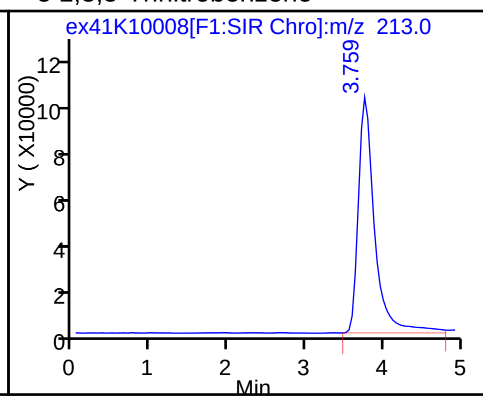
4 RDX



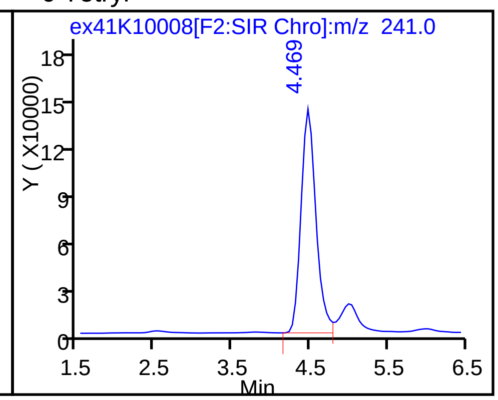
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



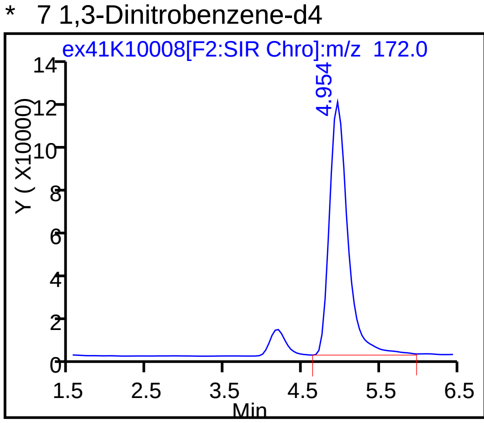
5 1,3,5-Trinitrobenzene



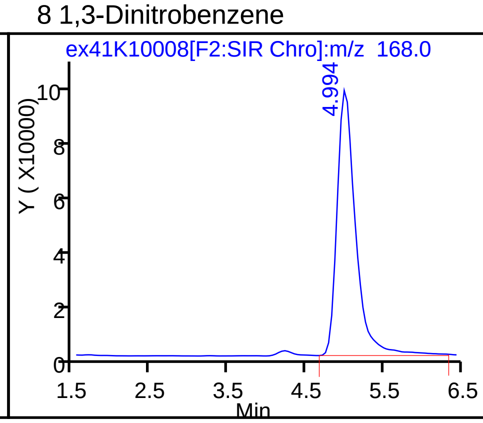
6 Tetryl



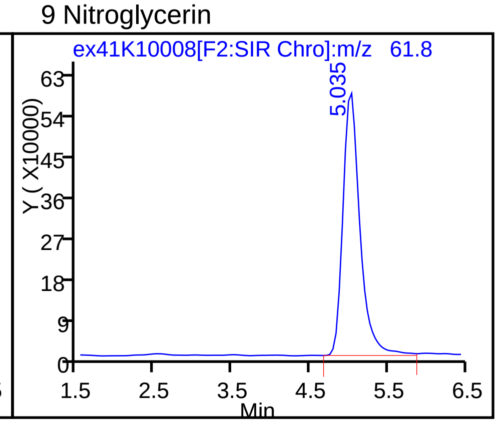
* 7 1,3-Dinitrobenzene-d4



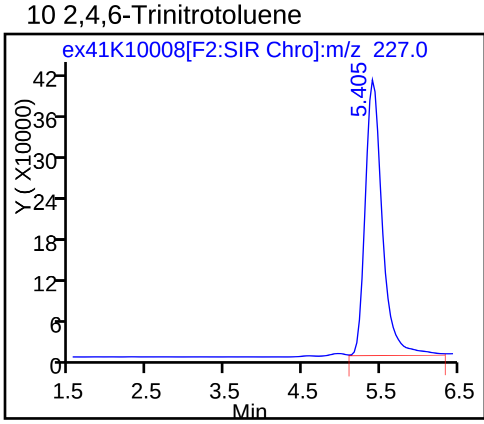
8 1,3-Dinitrobenzene



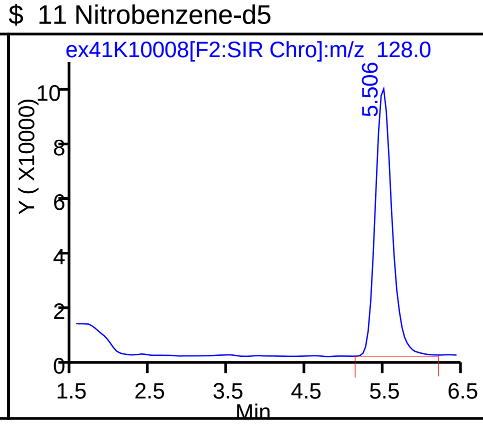
9 Nitroglycerin



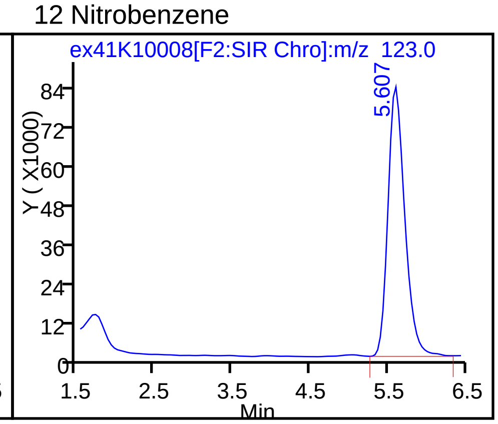
10 2,4,6-Trinitrotoluene



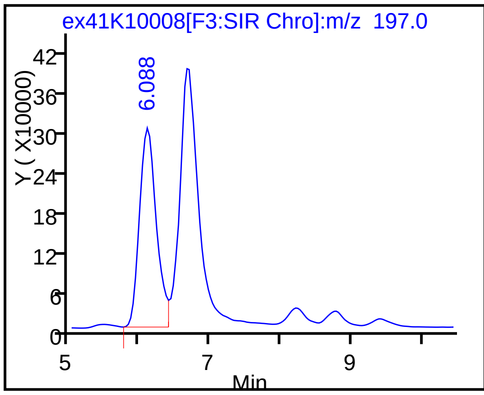
$ 11 Nitrobenzene-d5



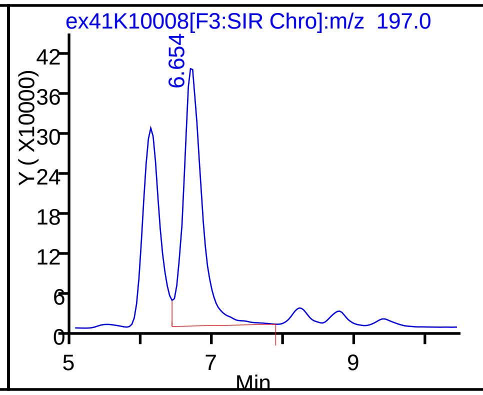
12 Nitrobenzene



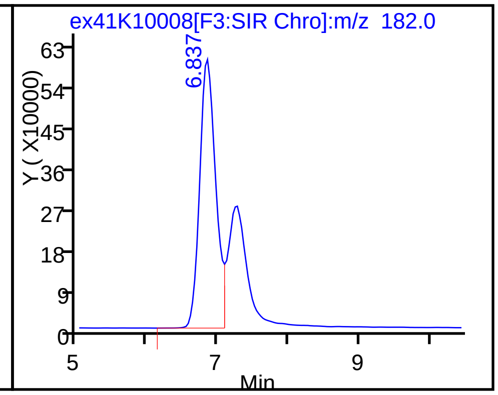
14 4-Amino-2,6-dinitrotoluene



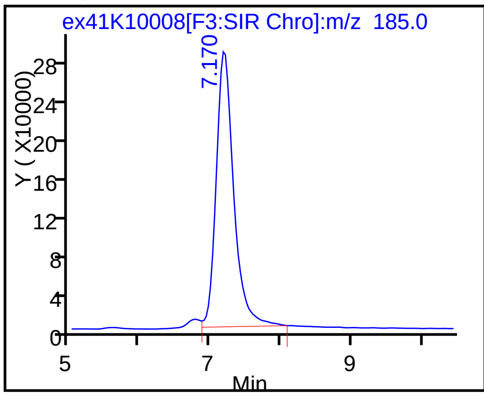
16 2-Amino-4,6-dinitrotoluene



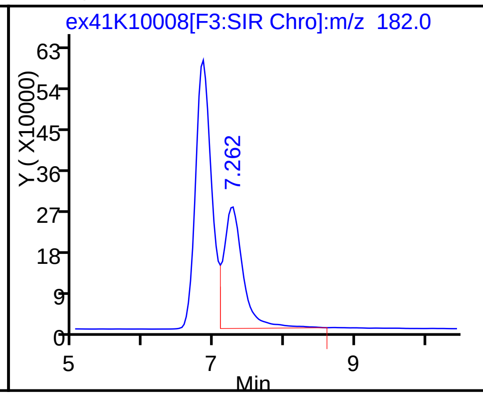
17 2,6-Dinitrotoluene



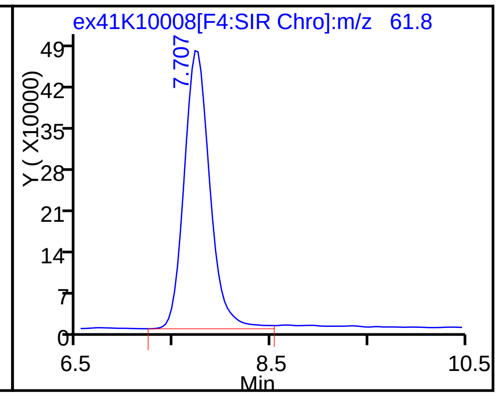
* 18 2,4-dinitrotoluene-d3



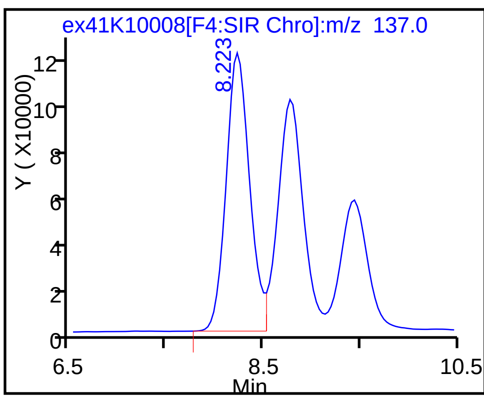
19 2,4-Dinitrotoluene



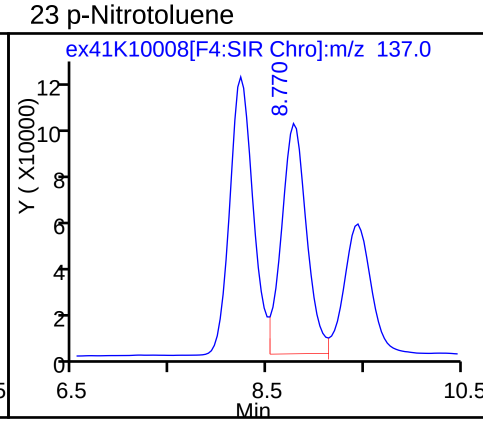
20 PETN



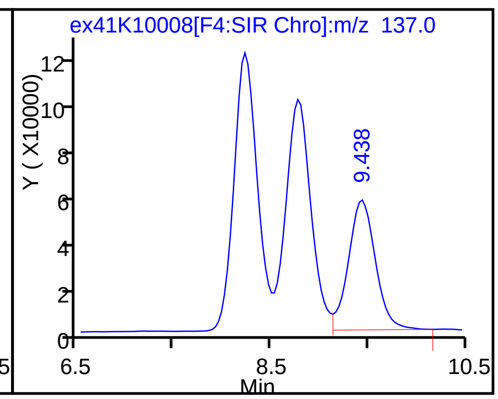
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Lims ID:	STD300	Client ID:	
Inject. Date:	10-Nov-2011 11:34:20	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	11/10/11EX7 STD300 ug/L 280-0002741-007		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	8
Lims Batch ID:	95626	Lims Sample ID:	7
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:12	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

First Level Reviewer: meyera Date: 11-Nov-2011 06:39:19

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	1398185	304.5			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		555708	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	2420123	300.6			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2110930	250.0			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	2180559	311.9			
	6 Tetryl									
2	241.0	4.469	4.469	0.000	0.902	2532265	293.7			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		1716950	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	4.994	5.035	-0.041	1.008	2317734	317.7			
	9 Nitroglycerin									
2	61.8	5.035	5.035	0.000	1.016	12173102	291.5			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.405	5.405	0.000	1.091	10237439	313.1			
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.111	2310496	308.3			
	12 Nitrobenzene									
2	123.0	5.607	5.607	0.000	1.132	1843293	305.0			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.088	6.088	0.000	0.849	8278720	308.9			
	16 2-Amino-4,6-dinitrotoluene									
3	197.0	6.685	6.685	0.000	0.932	11787132	308.8			

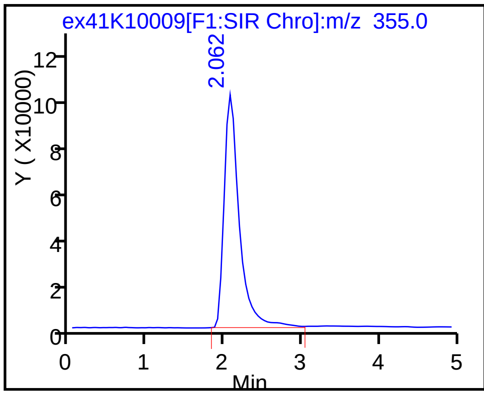
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.953	15743371	307.2			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.201	-0.031		4976910	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.013	7569395	293.8			
20 PETN										
4	61.8	7.737	7.707	0.030	1.000	13290310	294.9			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	3319727	311.2			
23 p-Nitrotoluene										
4	137.0	8.800	8.770	0.030	1.000	2930786	315.5			
24 m-Nitrotoluene										
4	137.0	9.468	9.438	0.030	1.000	1821860	313.6			

Report Date: 11-Nov-2011 06:40:13 Chrom Revision: 1.2 13-Jul-2011 10:43:06

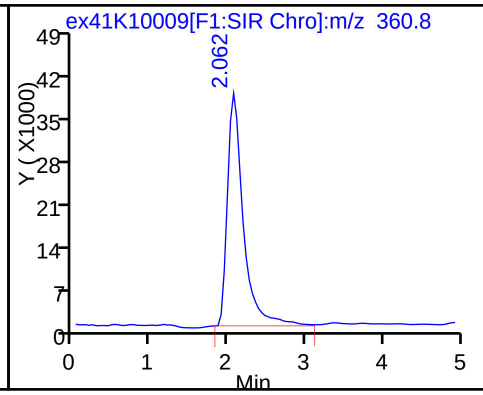
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d

Injection Date:	10-Nov-2011 11:34:20	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	7
Operator ID:		Injection Vol:	40.00 ul

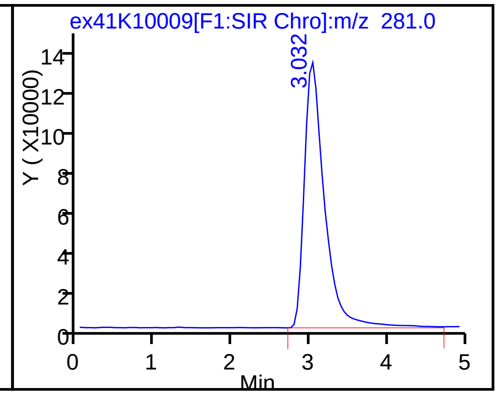
2 HMX



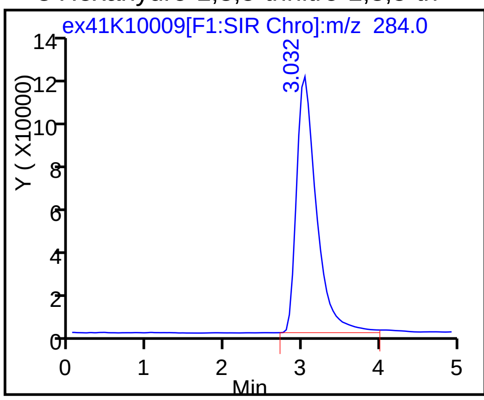
* 1 HMX-13C4



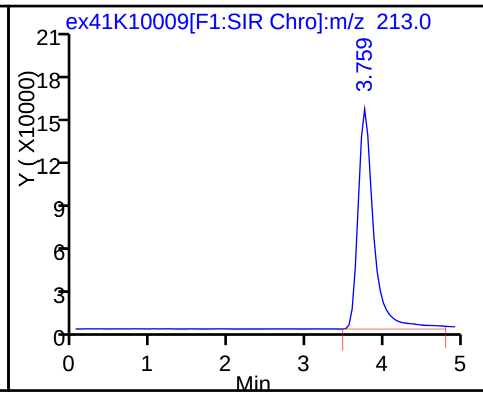
4 RDX



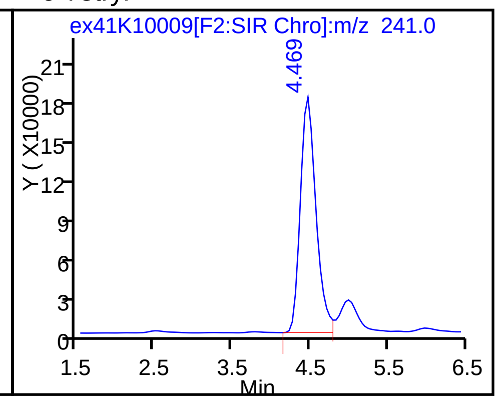
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



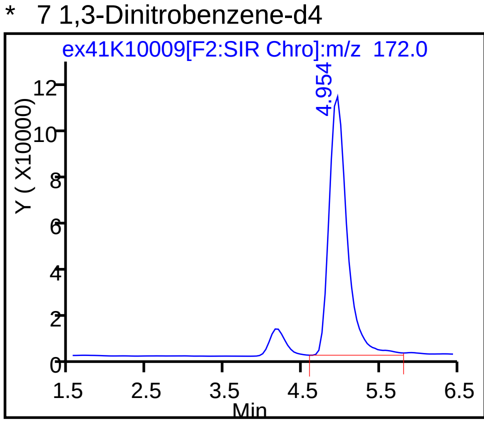
5 1,3,5-Trinitrobenzene



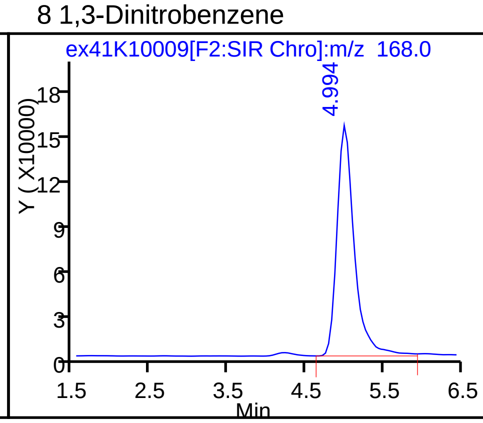
6 Tetryl



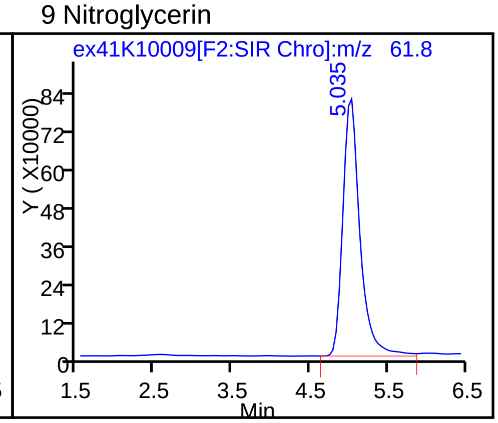
* 7 1,3-Dinitrobenzene-d4



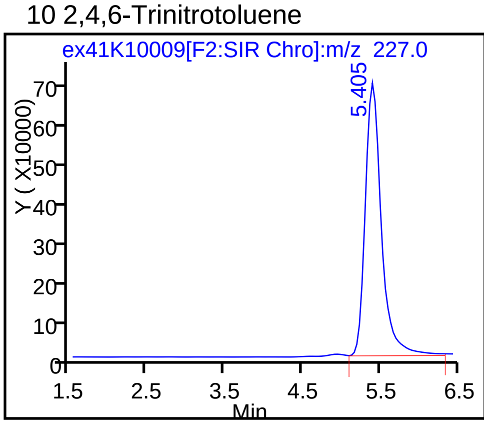
8 1,3-Dinitrobenzene



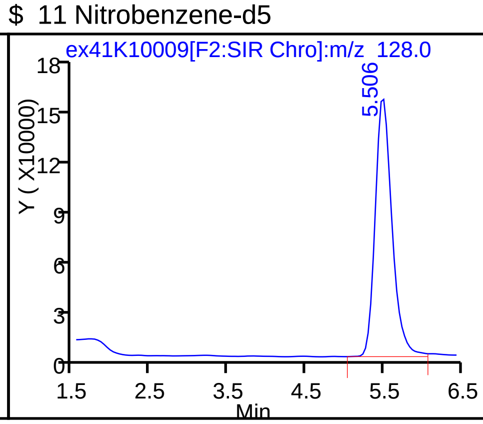
9 Nitroglycerin



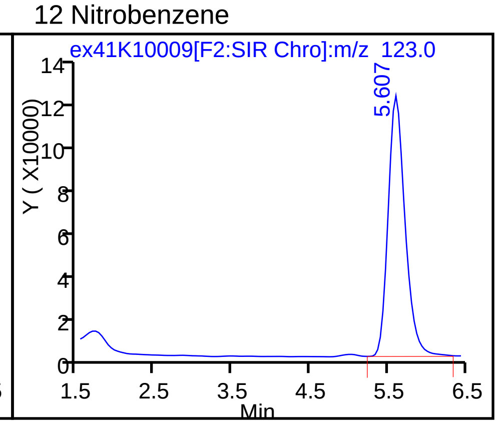
10 2,4,6-Trinitrotoluene



$ 11 Nitrobenzene-d5

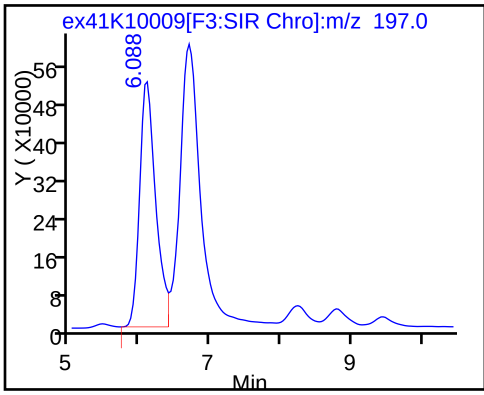


12 Nitrobenzene

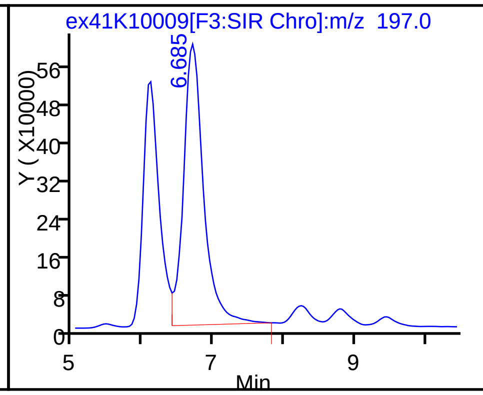


Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d

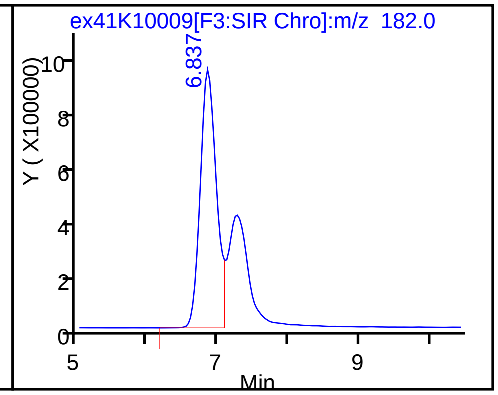
14 4-Amino-2,6-dinitrotoluene



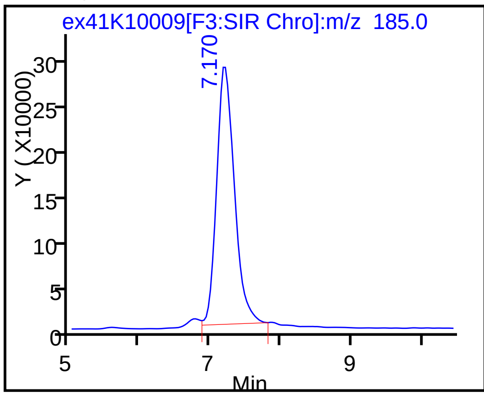
16 2-Amino-4,6-dinitrotoluene



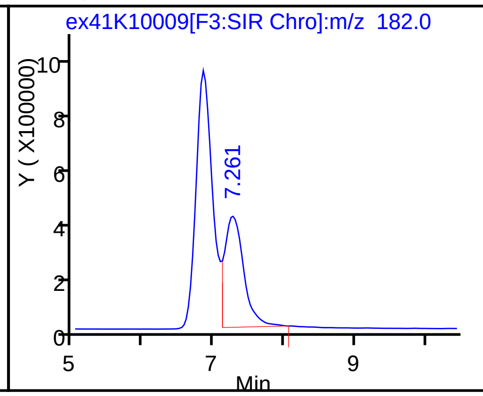
17 2,6-Dinitrotoluene



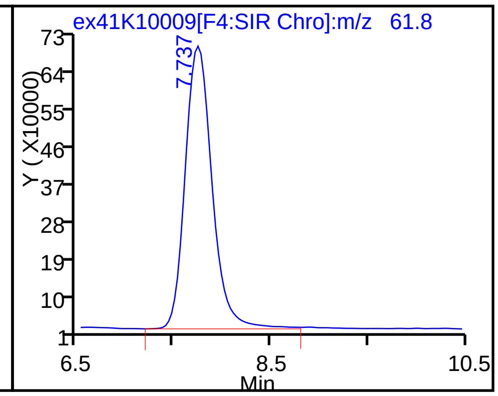
* 18 2,4-dinitrotoluene-d3



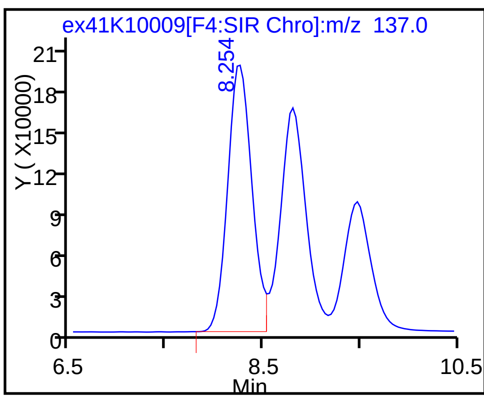
19 2,4-Dinitrotoluene



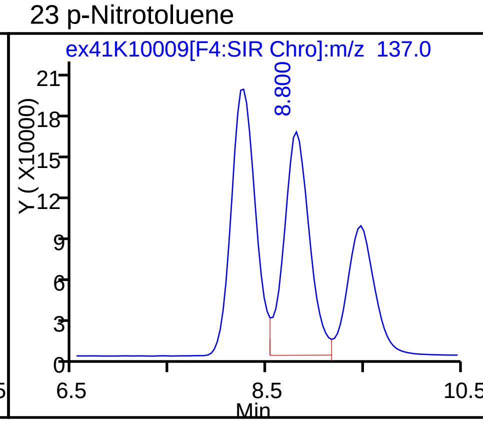
20 PETN



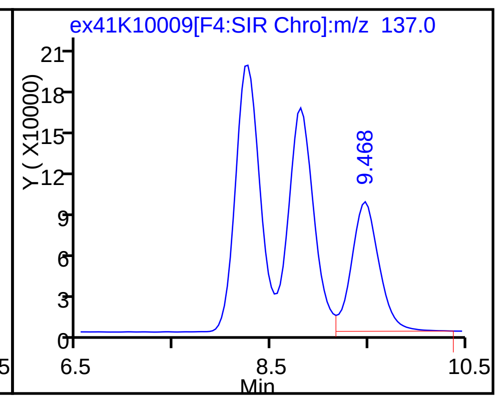
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Lab Sample ID: ICV 280-95626/10 Calibration Date: 11/10/2011 12:10

Instrument ID: LC_LCMS4 Calib Start Date: 11/10/2011 10:21

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10012.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		1.940		93.6	100	-6.4	30.0
RDX	Lin1		0.9170		95.9	100	-4.1	30.0
1,3,5-Trinitrobenzene	Lin1		0.9207		88.7	100	-11.3	30.0
Tetryl	Lin1		1.473		115	100	14.6	30.0
1,3-Dinitrobenzene	Lin1		1.134		104	100	3.7	30.0
Nitroglycerin	Lin1		6.429		102	100	1.9	30.0
2,4,6-Trinitrotoluene	Lin1		4.450		91.3	100	-8.7	30.0
Nitrobenzene	Lin1		0.8234		91.1	100	-8.9	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.242		93.0	100	-7.0	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.951		102	100	2.0	30.0
2,6-Dinitrotoluene	Lin1		2.581		101	100	0.7	30.0
2,4-Dinitrotoluene	Lin1		1.239		96.2	100	-3.8	30.0
PETN	Lin1		2.229		97.5	100	-2.5	30.0
2-Nitrotoluene	Lin1		0.5136		96.6	100	-3.4	30.0
4-Nitrotoluene	Lin1		0.4258		92.3	100	-7.7	30.0
3-Nitrotoluene	Lin1		0.2617		90.2	100	-9.8	30.0
Nitrobenzene-d5	Lin1		1.040		92.1	100	-7.9	30.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10012.d		
Lims ID:	ICV	Client ID:	
Inject. Date:	10-Nov-2011 12:10:35	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	11/10/11ICV ICV 280-0002741-010		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	9
Lims Batch ID:	95626	Lims Sample ID:	10
Sublist:			
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:12	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

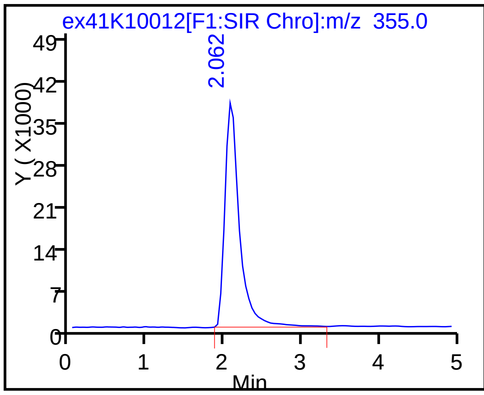
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	500591	93.6			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		644949	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	988017	95.9			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2693593	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.799	3.759	0.040	1.000	706690	88.7			
6 Tetryl										
2	241.0	4.509	4.469	0.040	0.903	1130835	114.6			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1985956	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.035	0.033	1.015	870395	103.7			
9 Nitroglycerin										
2	61.8	5.068	5.035	0.033	1.015	4934735	101.9			
10 2,4,6-Trinitrotoluene										
2	227.0	5.472	5.405	0.067	1.096	3415980	91.3			
$ 11 Nitrobenzene-d5										
2	128.0	5.539	5.506	0.033	1.109	798772	92.1			
12 Nitrobenzene										
2	123.0	5.640	5.607	0.033	1.129	632081	91.1			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.156	6.088	0.068	0.848	2689664	93.0			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.776	6.685	0.091	0.933	4225417	102.0			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.897	6.837	0.060	0.950	5590322	100.7			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.262	7.201	0.061		5415194	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.322	7.261	0.061	1.008	2684041	96.2			
20 PETN										
4	61.8	7.828	7.707	0.121	1.000	4828156	97.5			
22 o-Nitrotoluene										
4	137.0	8.314	8.254	0.060	1.000	1112442	96.6			
23 p-Nitrotoluene										
4	137.0	8.861	8.770	0.091	1.000	922217	92.3			
24 m-Nitrotoluene										
4	137.0	9.529	9.438	0.091	1.000	566782	90.2			

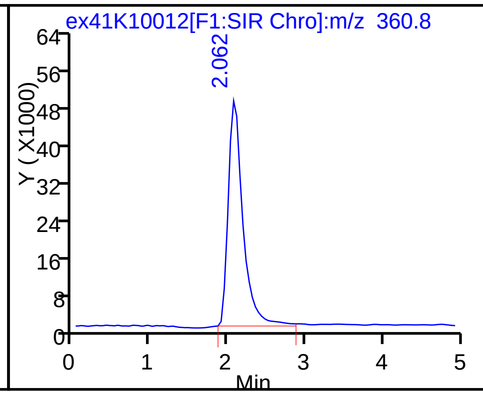
Report Date: 11-Nov-2011 06:40:16 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10012.d

Injection Date:	10-Nov-2011 12:10:35	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	10
Operator ID:		Injection Vol:	40.00 ul

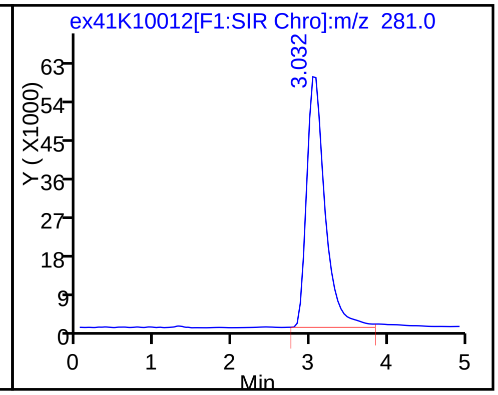
2 HMX



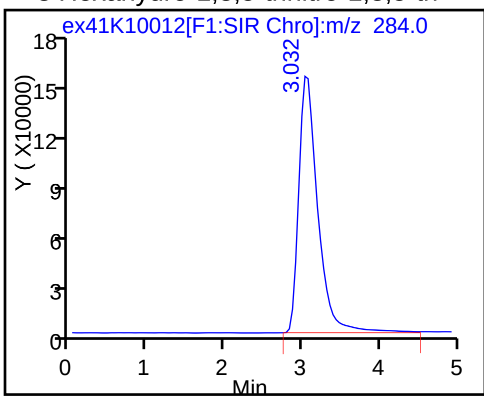
* 1 HMX-13C4



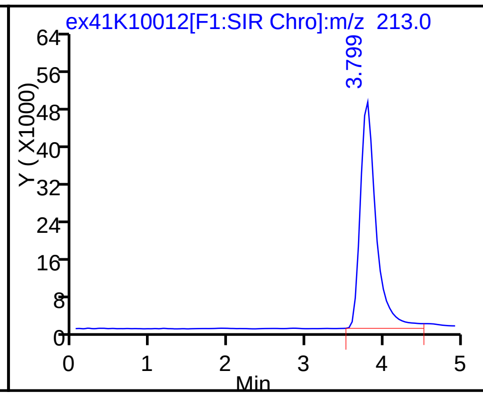
4 RDX



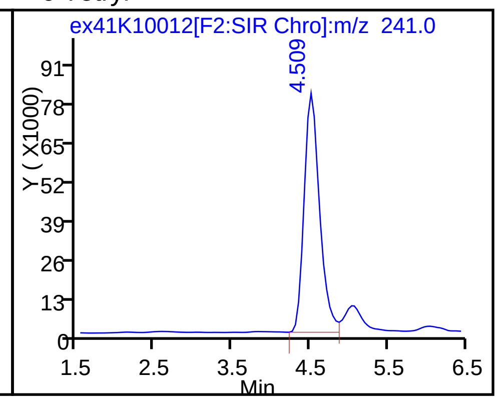
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



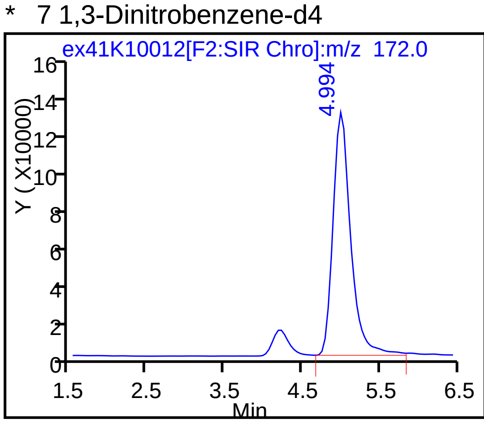
5 1,3,5-Trinitrobenzene



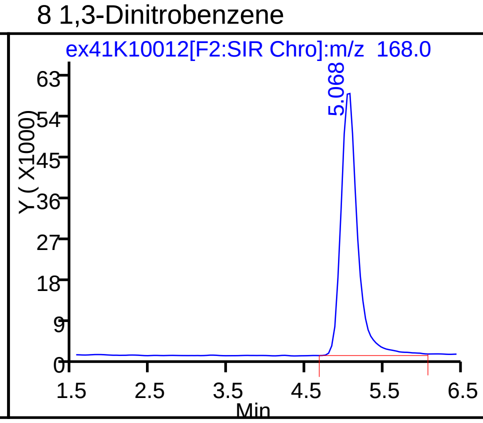
6 Tetryl



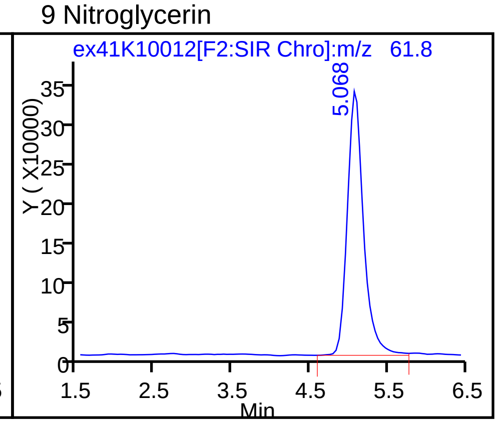
* 7 1,3-Dinitrobenzene-d4



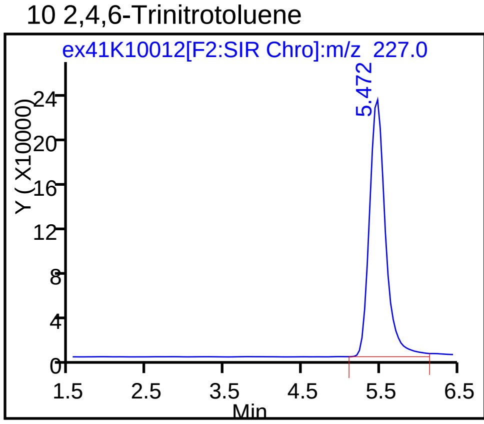
8 1,3-Dinitrobenzene



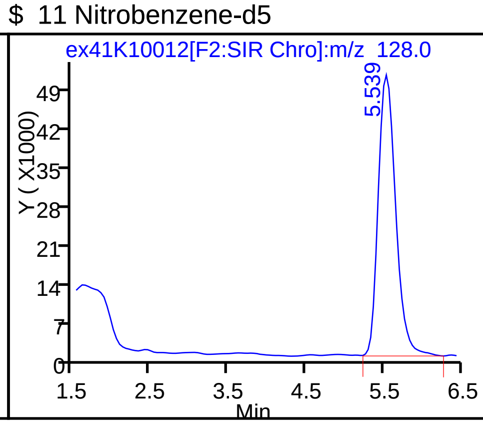
9 Nitroglycerin



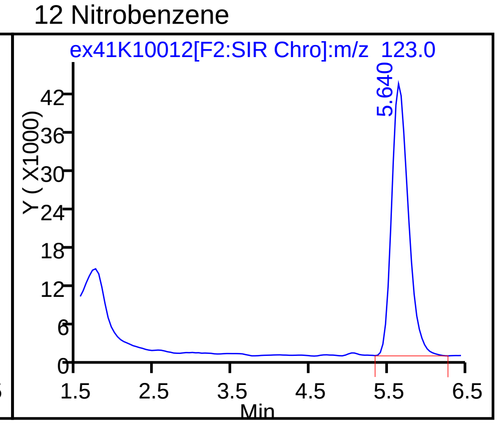
10 2,4,6-Trinitrotoluene



$ 11 Nitrobenzene-d5

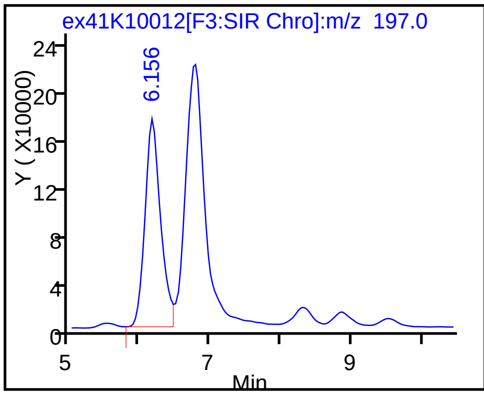


12 Nitrobenzene

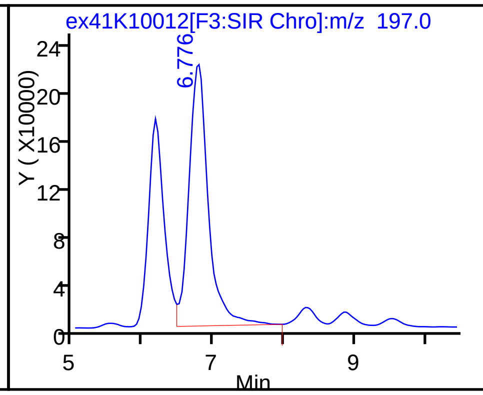


Report Date: 11-Nov-2011 06:40:16 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10012.d

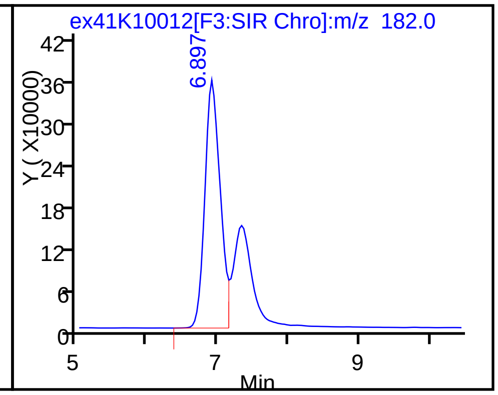
14 4-Amino-2,6-dinitrotoluene



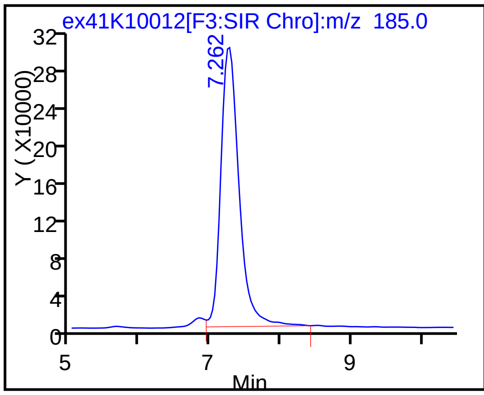
16 2-Amino-4,6-dinitrotoluene



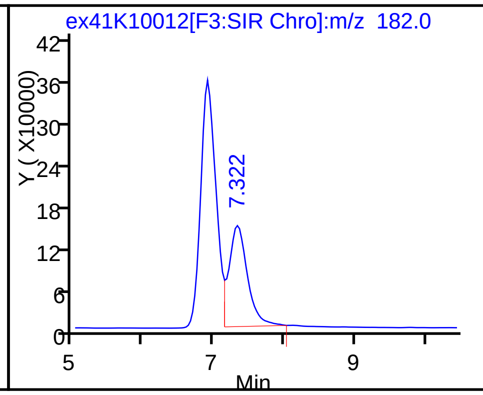
17 2,6-Dinitrotoluene



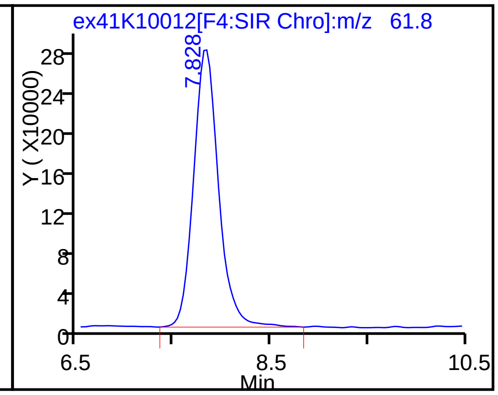
* 18 2,4-dinitrotoluene-d3



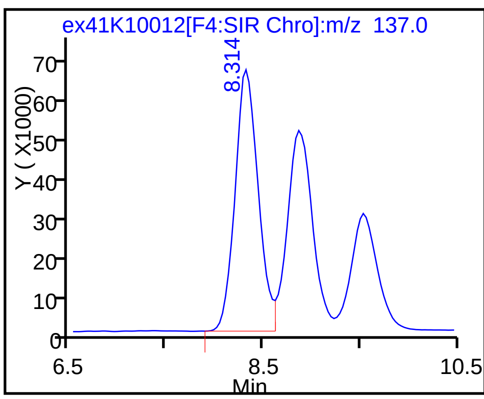
19 2,4-Dinitrotoluene



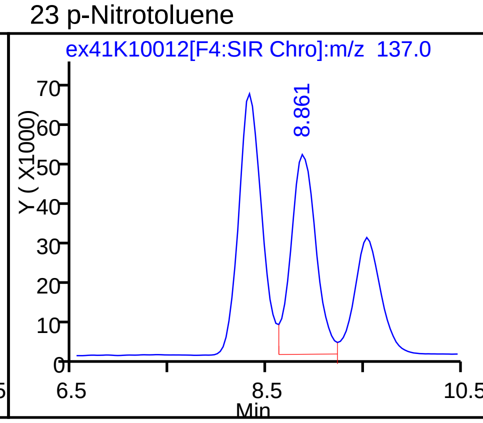
20 PETN



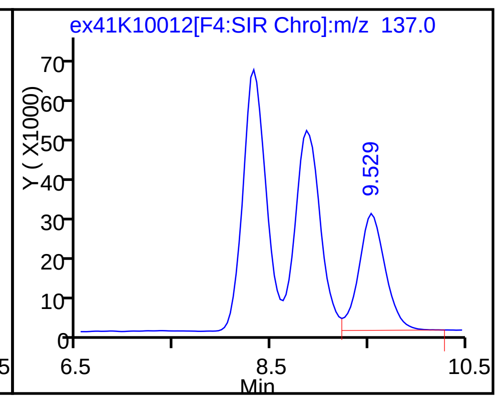
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Lab Sample ID: CCV 280-95629/19 Calibration Date: 11/10/2011 14:01

Instrument ID: LC_LCMS4 Calib Start Date: 11/10/2011 10:21

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10021.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.052		49.3	50.0	-1.4	30.0
RDX	Lin1		1.019		52.4	49.4	6.2	30.0
1,3,5-Trinitrobenzene	Lin1		1.016		49.8	50.1	-0.5	30.0
Tetryl	Lin1		1.084		43.2	49.7	-13.1	30.0
1,3-Dinitrobenzene	Lin1		1.105		51.6	50.7	1.8	30.0
Nitroglycerin	Lin1		6.200		48.9	50.0	-2.2	30.0
2,4,6-Trinitrotoluene	Lin1		5.065		52.6	50.1	5.1	30.0
Nitrobenzene	Lin1		0.8213		45.9	50.0	-8.1	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.468		54.6	49.4	10.6	30.0
2-Amino-4,6-dinitrotoluene	Lin1		2.047		53.8	50.1	7.5	30.0
2,6-Dinitrotoluene	Lin1		2.481		48.8	50.1	-2.5	30.0
2,4-Dinitrotoluene	Lin1		1.288		50.5	50.2	0.7	30.0
PETN	Lin1		2.284		49.1	49.9	-1.6	30.0
2-Nitrotoluene	Lin1		0.4882		46.1	49.6	-7.0	30.0
4-Nitrotoluene	Lin1		0.4227		46.3	49.8	-6.9	30.0
3-Nitrotoluene	Lin1		0.2717		46.7	49.4	-5.5	30.0
Nitrobenzene-d5	Lin1		1.085		48.1	50.0	-3.8	30.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10021.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	10-Nov-2011 14:01:54	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/10/11EX4 CCV 50 ug/L 280-0002741-019		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	95629	Lims Sample ID:	19
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:25	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

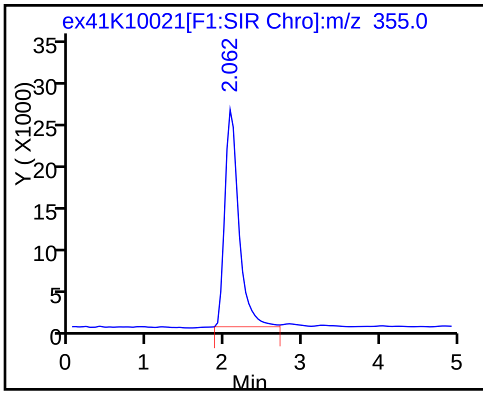
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	328544	49.3			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		800380	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	534404	52.4			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2657549	250.0			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	373330	49.8			
	6 Tetryl									
2	241.0	4.469	4.469	0.000	0.902	395302	43.2			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		1898911	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	5.035	5.035	0.000	1.016	411299	51.6			
	9 Nitroglycerin									
2	61.8	5.035	5.035	0.000	1.016	2275325	48.9			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.405	5.405	0.000	1.091	1860660	52.6			
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.111	398356	48.1			
	12 Nitrobenzene									
2	123.0	5.607	5.607	0.000	1.132	301099	45.9			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.122	6.122	0.000	0.850	1496451	54.6			
	16 2-Amino-4,6-dinitrotoluene									
3	197.0	6.715	6.715	0.000	0.932	2116663	53.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.867	6.867	0.000	0.954	2565316	48.8			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5165297	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.013	1334890	50.5			
20 PETN										
4	61.8	7.737	7.737	0.000	1.000	2355060	49.1			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	499773	46.1			
23 p-Nitrotoluene										
4	137.0	8.800	8.800	0.000	1.000	434481	46.3			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	277349	46.7			

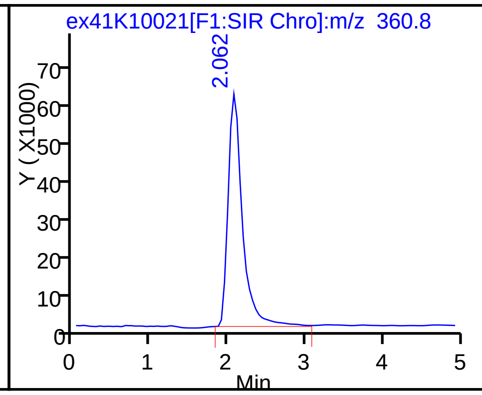
Report Date: 11-Nov-2011 06:40:25 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10021.d

Injection Date:	10-Nov-2011 14:01:54	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	19
Operator ID:		Injection Vol:	40.00 ul

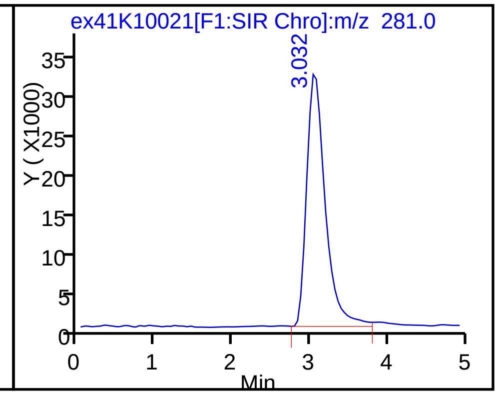
2 HMX



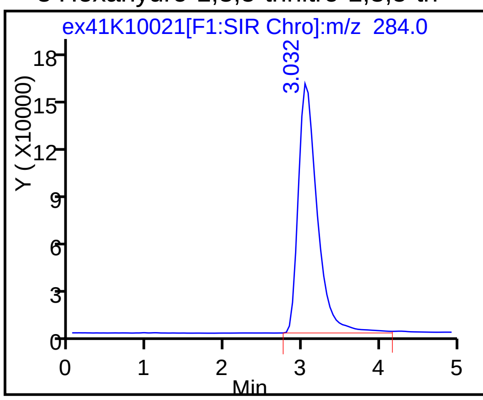
* 1 HMX-13C4



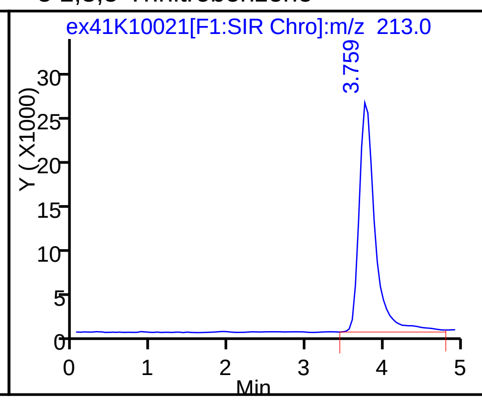
4 RDX



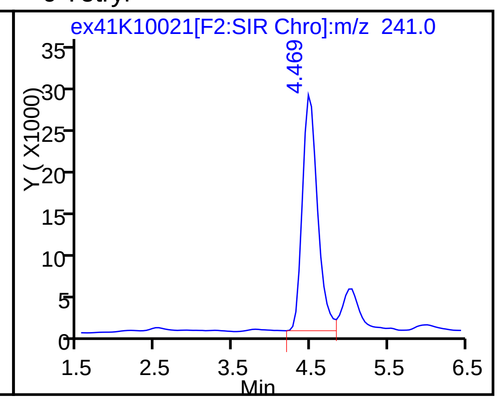
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



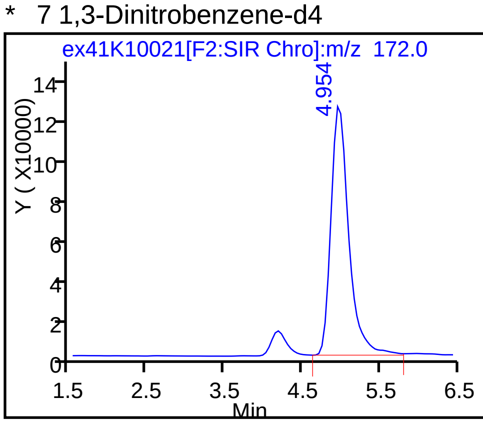
5 1,3,5-Trinitrobenzene



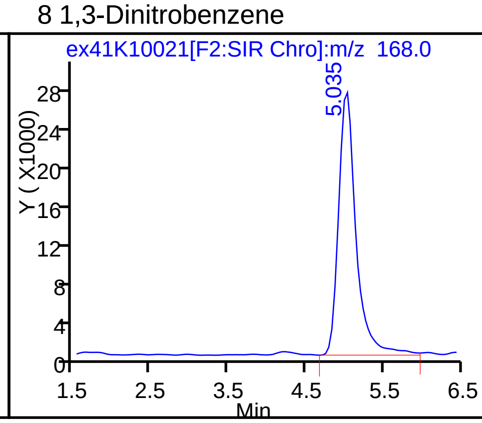
6 Tetryl



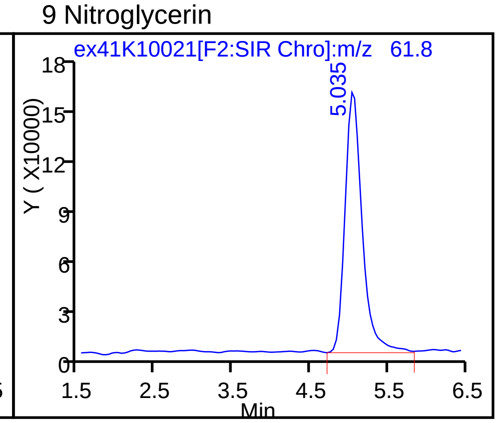
* 7 1,3-Dinitrobenzene-d4



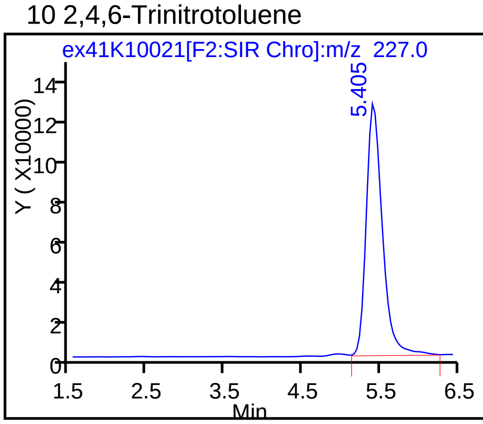
8 1,3-Dinitrobenzene



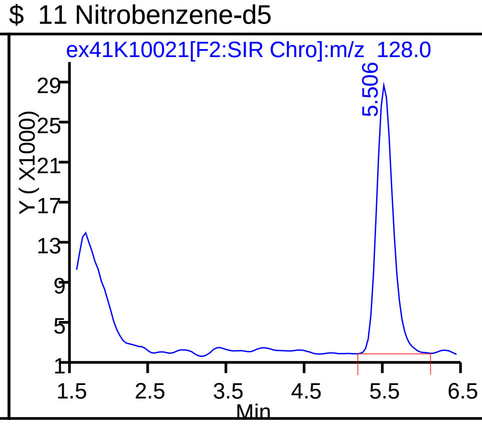
9 Nitroglycerin



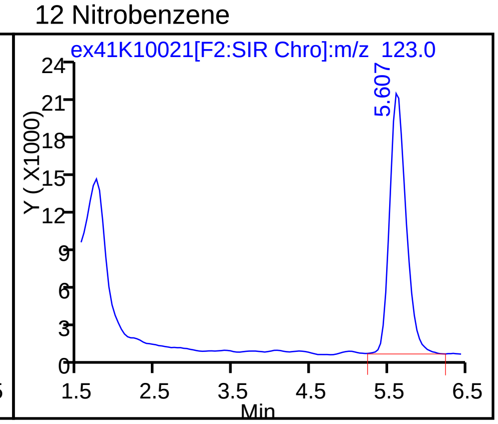
10 2,4,6-Trinitrotoluene



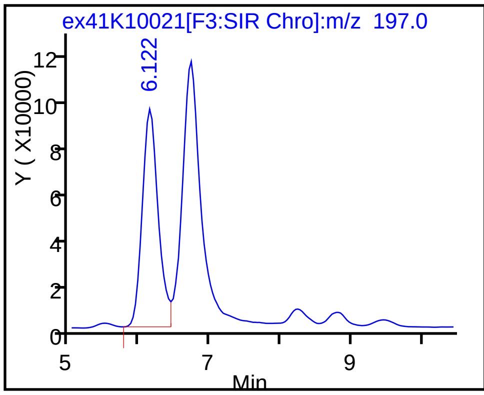
$ 11 Nitrobenzene-d5



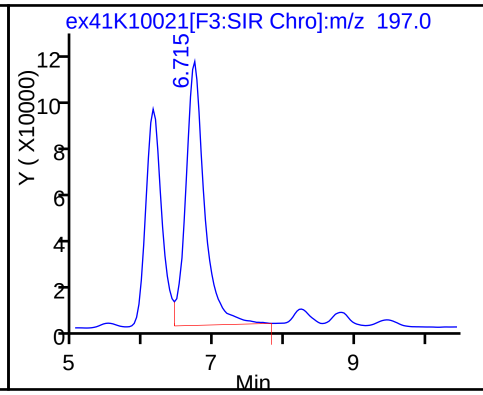
12 Nitrobenzene



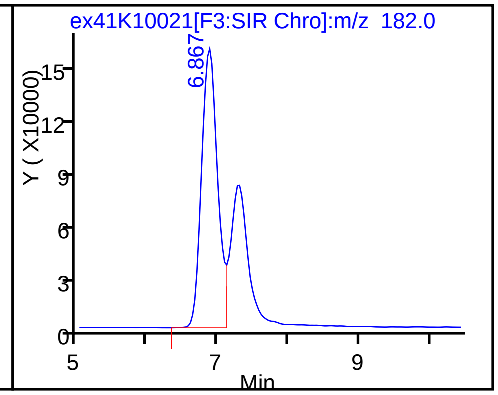
14 4-Amino-2,6-dinitrotoluene



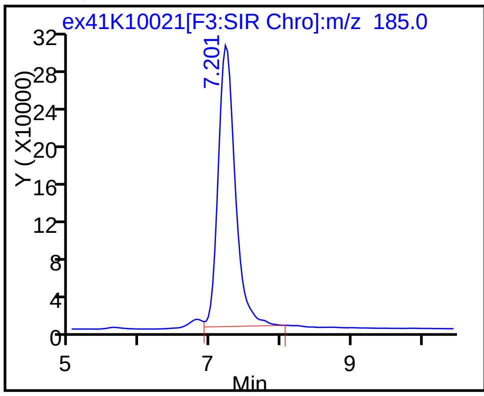
16 2-Amino-4,6-dinitrotoluene



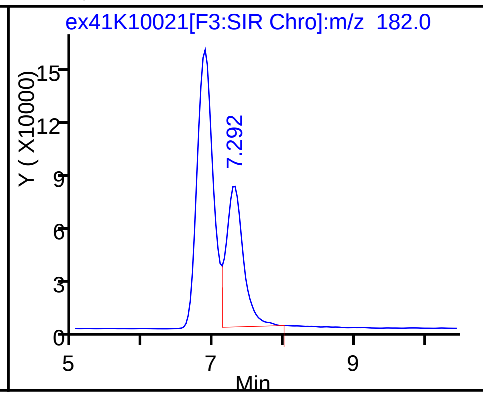
17 2,6-Dinitrotoluene



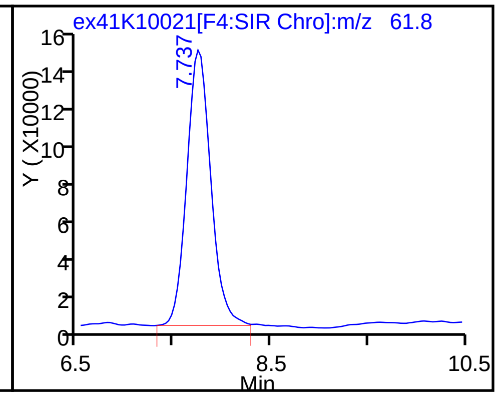
* 18 2,4-dinitrotoluene-d3



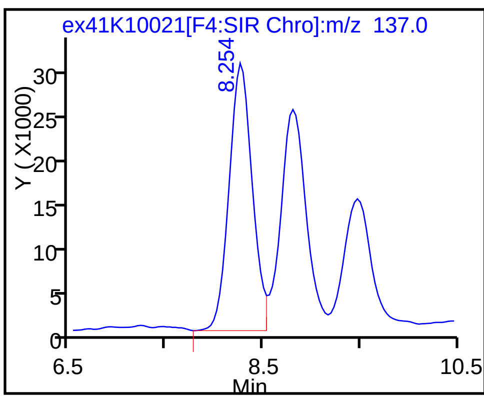
19 2,4-Dinitrotoluene



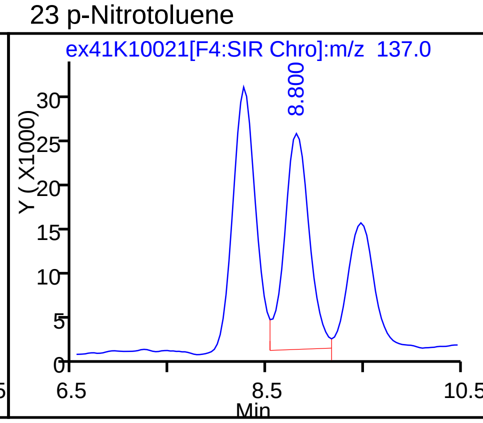
20 PETN



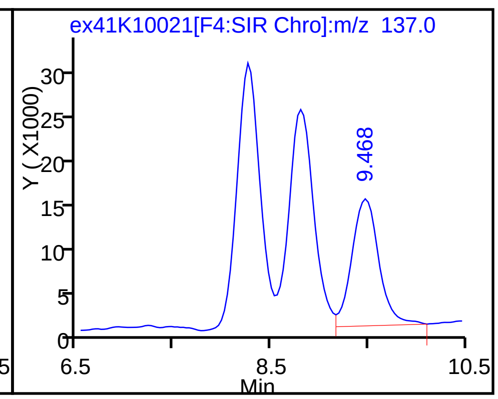
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Lab Sample ID: CCV 280-95629/28 Calibration Date: 11/10/2011 15:51

Instrument ID: LC_LCMS4 Calib Start Date: 11/10/2011 10:21

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10030.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		1.995		96.3	100	-3.7	30.0
RDX	Lin1		0.9360		96.6	98.7	-2.1	30.0
1,3,5-Trinitrobenzene	Lin1		0.9366		90.3	100	-9.8	30.0
Tetryl	Lin1		1.229		95.4	99.4	-4.0	30.0
1,3-Dinitrobenzene	Lin1		0.9853		91.4	101	-9.9	30.0
Nitroglycerin	Lin1		6.449		102	100	2.2	30.0
2,4,6-Trinitrotoluene	Lin1		4.583		94.1	100	-6.0	30.0
Nitrobenzene	Lin1		0.8453		93.4	99.9	-6.5	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.311		96.8	98.7	-1.9	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.743		91.3	100	-8.8	30.0
2,6-Dinitrotoluene	Lin1		2.387		93.3	100	-6.8	30.0
2,4-Dinitrotoluene	Lin1		1.293		101	100	0.4	30.0
PETN	Lin1		2.539		111	99.8	11.2	30.0
2-Nitrotoluene	Lin1		0.5133		95.7	99.1	-3.4	30.0
4-Nitrotoluene	Lin1		0.4451		96.0	99.5	-3.5	30.0
3-Nitrotoluene	Lin1		0.2903		98.8	98.8	0.0	30.0
Nitrobenzene-d5	Lin1		1.056		93.5	100	-6.5	30.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10030.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	10-Nov-2011 15:51:27	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/10/11EX5 CCV 100 ug/L 280-0002741-028		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	6
Lims Batch ID:	95629	Lims Sample ID:	28
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:31	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

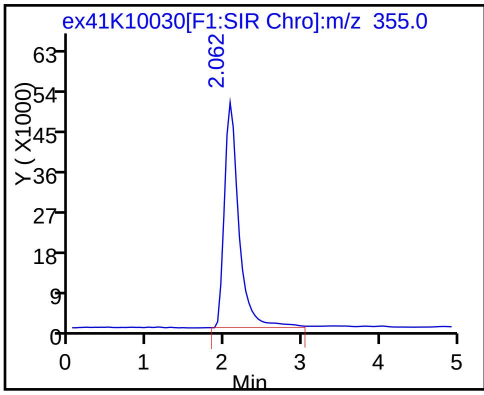
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	667515	96.3			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		836351	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1068139	96.6			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2890487	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	663073	90.3			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	864193	95.4			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1829870	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	706666	91.4			
9 Nitroglycerin										
2	61.8	5.034	5.034	0.000	1.016	4561196	102.2			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	3244437	94.1			
$ 11 Nitrobenzene-d5										
2	128.0	5.472	5.472	0.000	1.105	746772	93.5			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	597257	93.4			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.849	2310637	96.8			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.932	3115657	91.3			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.953	4267319	93.3			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.170	7.170	0.000		4464441	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.261	7.261	0.000	1.013	2316632	100.7			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	4525464	111.0			
22 o-Nitrotoluene										
4	137.0	8.223	8.223	0.000	1.000	908408	95.7			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	790879	96.0			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	512203	98.8			

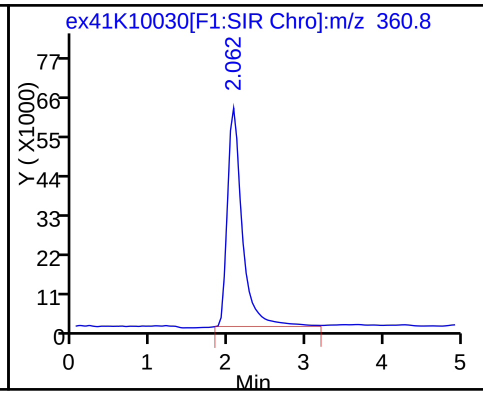
Report Date: 11-Nov-2011 06:40:31 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10030.d

Injection Date:	10-Nov-2011 15:51:27	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	28
Operator ID:		Injection Vol:	40.00 ul

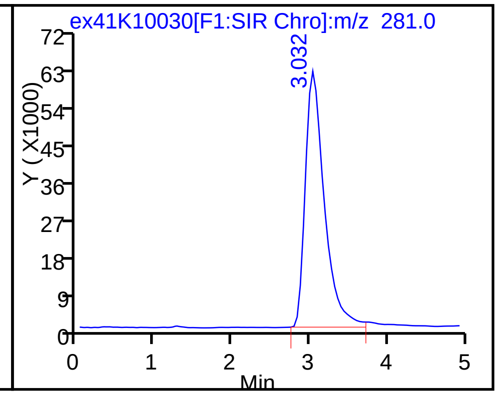
2 HMX



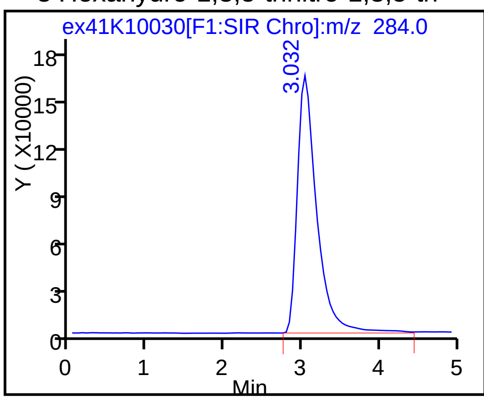
* 1 HMX-13C4



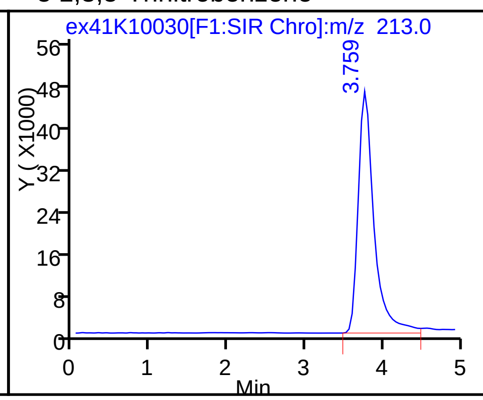
4 RDX



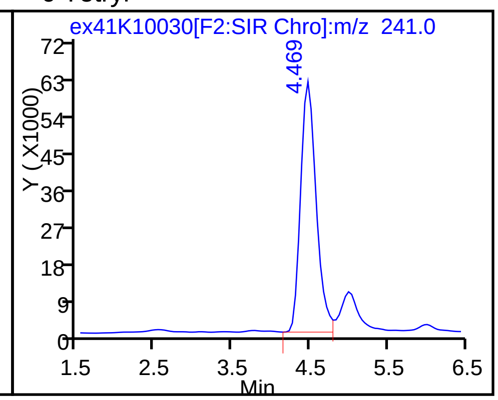
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



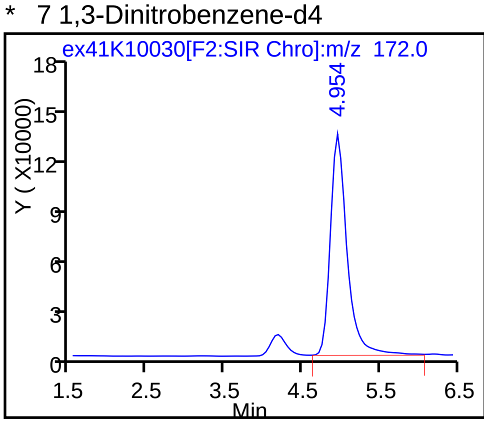
5 1,3,5-Trinitrobenzene



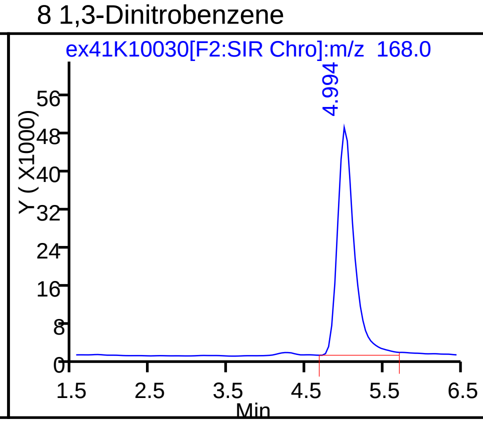
6 Tetryl



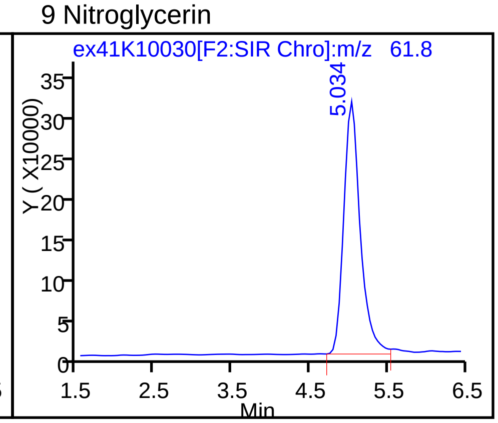
* 7 1,3-Dinitrobenzene-d4



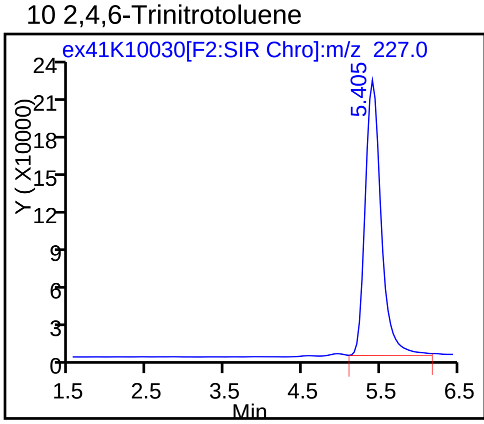
8 1,3-Dinitrobenzene



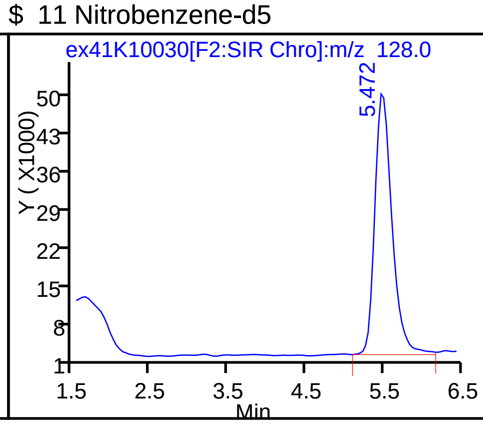
9 Nitroglycerin



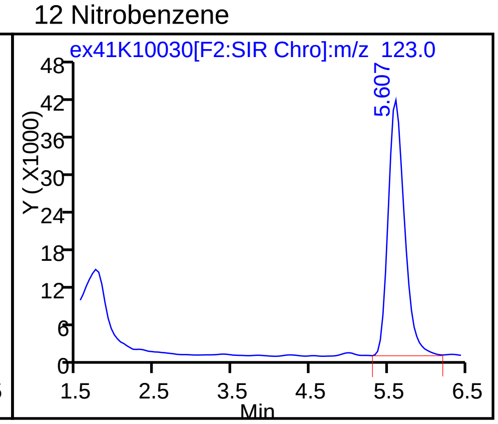
10 2,4,6-Trinitrotoluene



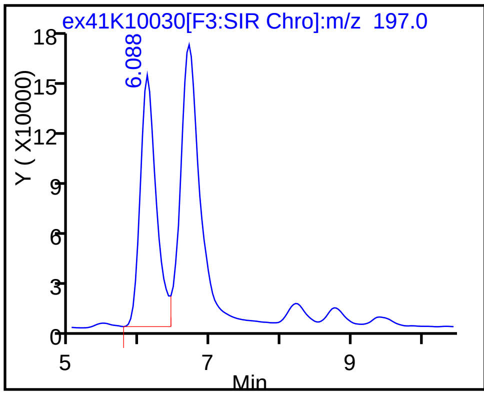
$ 11 Nitrobenzene-d5



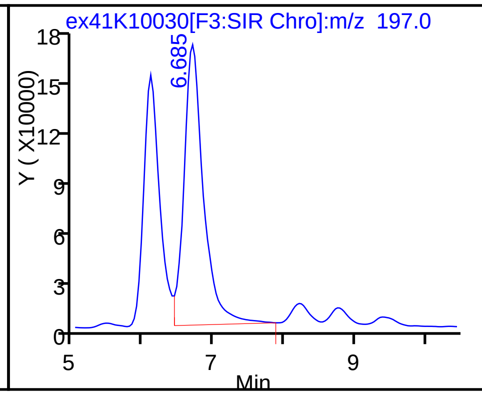
12 Nitrobenzene



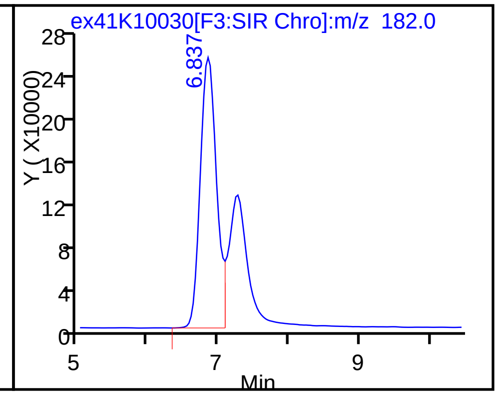
14 4-Amino-2,6-dinitrotoluene



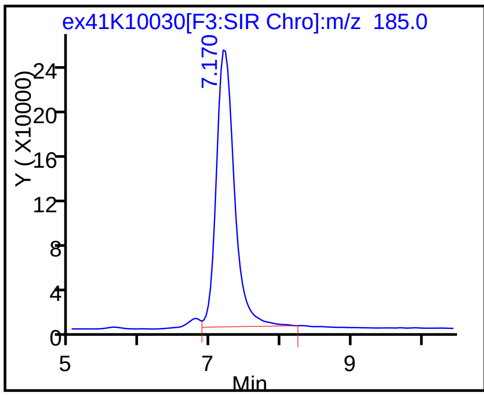
16 2-Amino-4,6-dinitrotoluene



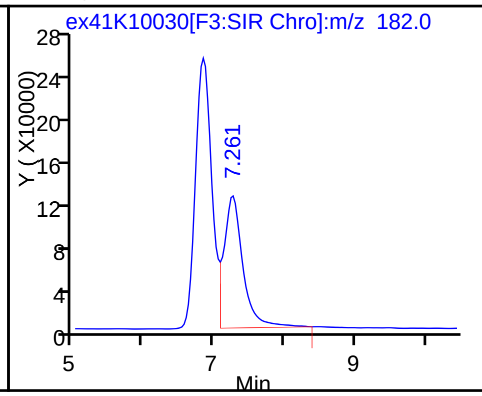
17 2,6-Dinitrotoluene



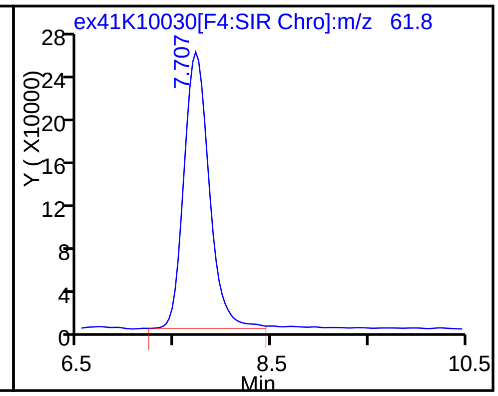
* 18 2,4-dinitrotoluene-d3



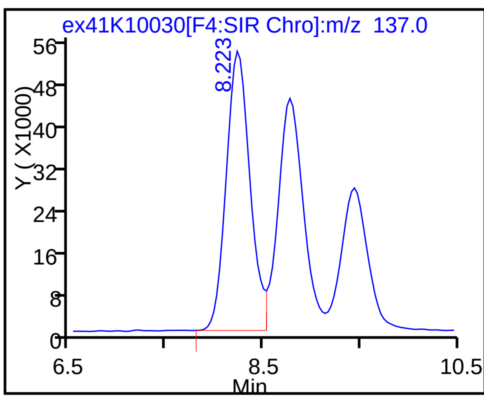
19 2,4-Dinitrotoluene



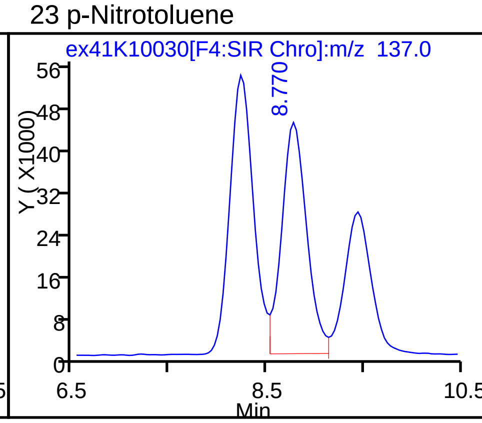
20 PETN



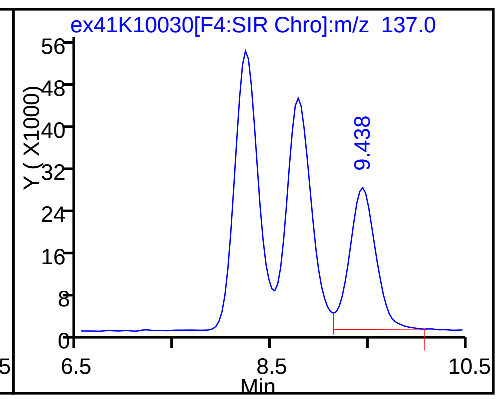
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Lab Sample ID: CCV 280-95630/35 Calibration Date: 11/10/2011 17:16

Instrument ID: LC_LCMS4 Calib Start Date: 11/10/2011 10:21

GC Column: IonPac ID: 2.00(mm) Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10037.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		2.227		53.6	50.0	7.2	30.0
RDX	Lin1		0.998		51.3	49.4	4.0	30.0
1,3,5-Trinitrobenzene	Lin1		0.9673		47.5	50.1	-5.1	30.0
Tetryl	Lin1		1.035		41.4	49.7	-16.7	30.0
1,3-Dinitrobenzene	Lin1		1.074		50.2	50.7	-1.0	30.0
Nitroglycerin	Lin1		6.358		50.2	50.0	0.4	30.0
2,4,6-Trinitrotoluene	Lin1		4.839		50.4	50.1	0.7	30.0
Nitrobenzene	Lin1		0.8425		47.1	50.0	-5.7	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.267		47.3	49.4	-4.2	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.665		43.8	50.1	-12.5	30.0
2,6-Dinitrotoluene	Lin1		2.433		47.9	50.1	-4.3	30.0
2,4-Dinitrotoluene	Lin1		1.278		50.1	50.2	-0.1	30.0
PETN	Lin1		2.689		58.0	49.9	16.2	30.0
2-Nitrotoluene	Lin1		0.5298		49.9	49.6	0.7	30.0
4-Nitrotoluene	Lin1		0.4728		51.7	49.8	3.9	30.0
3-Nitrotoluene	Lin1		0.3248		55.6	49.4	12.6	30.0
Nitrobenzene-d5	Lin1		1.125		49.8	50.0	-0.4	30.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10037.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	10-Nov-2011 17:16:50	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	11/10/11EX4 CCV 50 ug/L 280-0002741-035		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	5
Lims Batch ID:	95630	Lims Sample ID:	35
Sublist:	chrom-8321exp4-25*sub4		
Raw Data:	Smoothed		
Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:36	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

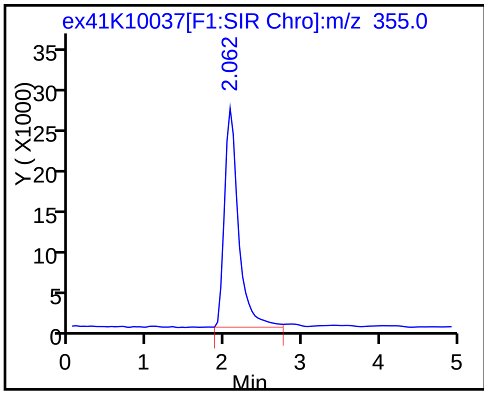
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
	2 HMX									
1	355.0	2.062	2.062	0.000	1.000	337415	53.6			
*	1 HMX-13C4									
1	360.8	2.062	2.062	0.000		757407	250.0			
	4 RDX									
1	281.0	3.032	3.032	0.000	1.000	562731	51.3			
*	3 Hexahydro-1,3,5-trinitro-1,3,5-tri									
1	284.0	3.032	3.032	0.000		2856908	250.0			
	5 1,3,5-Trinitrobenzene									
1	213.0	3.759	3.759	0.000	1.000	345555	47.5			
	6 Tetryl									
2	241.0	4.469	4.469	0.000	0.902	367035	41.4			
*	7 1,3-Dinitrobenzene-d4									
2	172.0	4.954	4.954	0.000		1846735	258.7			
	8 1,3-Dinitrobenzene									
2	168.0	5.035	5.035	0.000	1.016	388574	50.2			
	9 Nitroglycerin									
2	61.8	5.035	5.035	0.000	1.016	2269302	50.2			
	10 2,4,6-Trinitrotoluene									
2	227.0	5.405	5.405	0.000	1.091	1728850	50.4			
$	11 Nitrobenzene-d5									
2	128.0	5.506	5.506	0.000	1.111	401536	49.8			
	12 Nitrobenzene									
2	123.0	5.641	5.641	0.000	1.139	300390	47.1			
	14 4-Amino-2,6-dinitrotoluene									
3	197.0	6.122	6.122	0.000	0.850	1297176	47.3			
	16 2-Amino-4,6-dinitrotoluene									
3	197.0	6.685	6.685	0.000	0.928	1728732	43.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.949	2526440	47.9			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5187215	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.292	7.292	0.000	1.013	1329312	50.1			
20 PETN										
4	61.8	7.737	7.737	0.000	1.000	2783802	58.0			
22 o-Nitrotoluene										
4	137.0	8.254	8.254	0.000	1.000	544691	49.9			
23 p-Nitrotoluene										
4	137.0	8.831	8.831	0.000	1.000	488073	51.7			
24 m-Nitrotoluene										
4	137.0	9.468	9.468	0.000	1.000	332958	55.6			

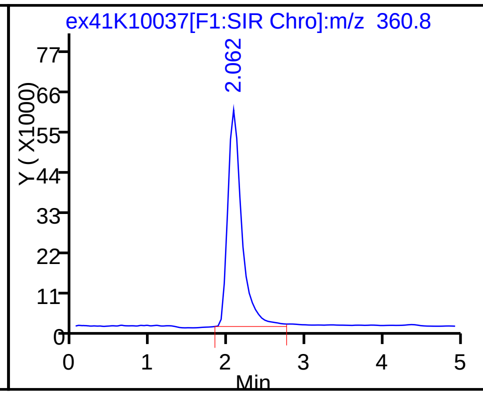
Report Date: 11-Nov-2011 06:40:36 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10037.d

Injection Date:	10-Nov-2011 17:16:50	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	35
Operator ID:		Injection Vol:	40.00 ul

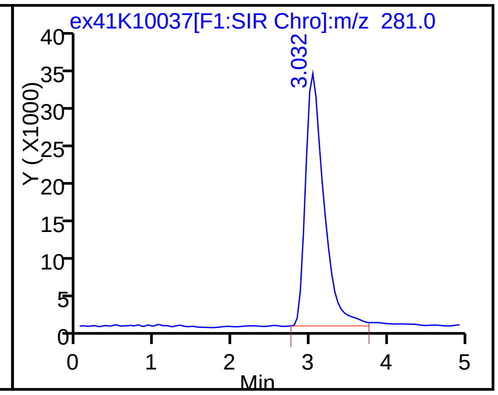
2 HMX



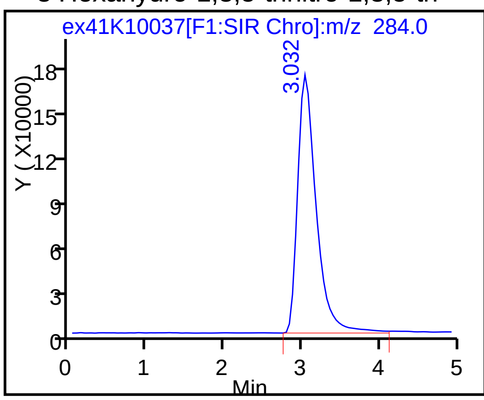
* 1 HMX-13C4



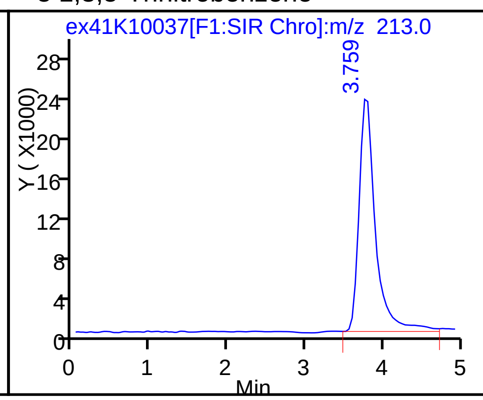
4 RDX



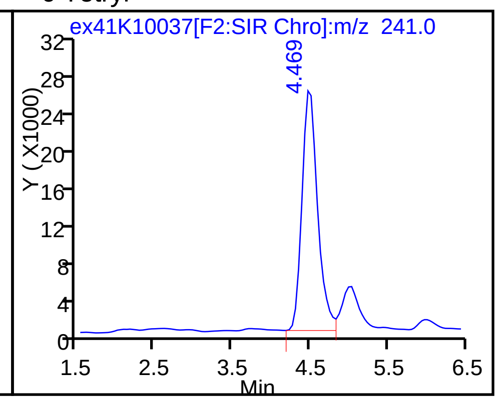
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



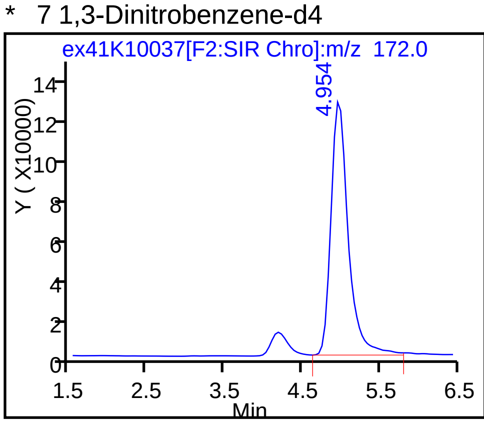
5 1,3,5-Trinitrobenzene



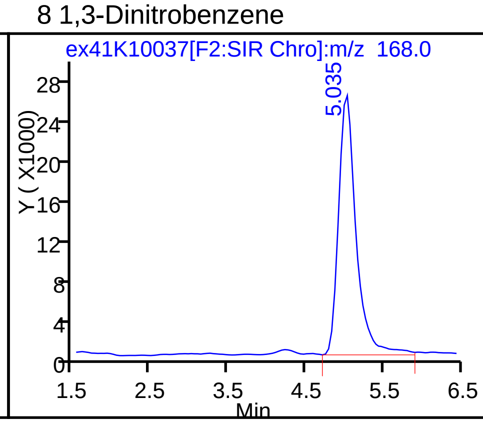
6 Tetryl



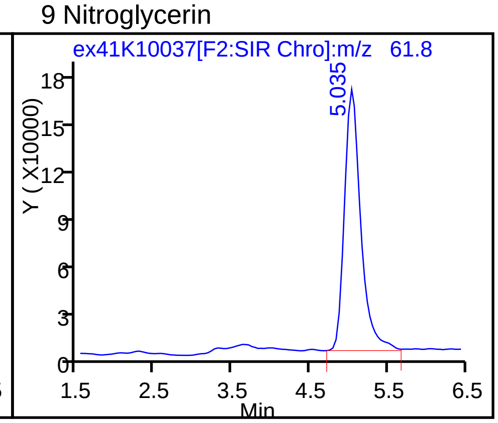
* 7 1,3-Dinitrobenzene-d4



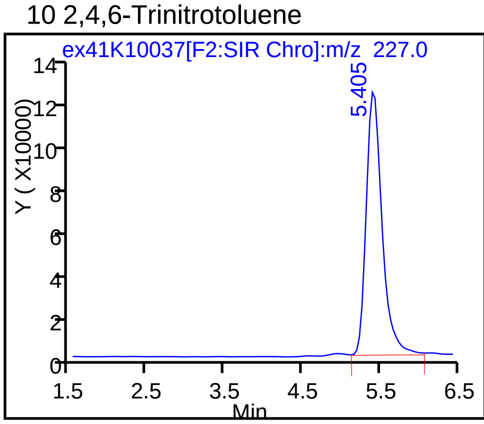
8 1,3-Dinitrobenzene



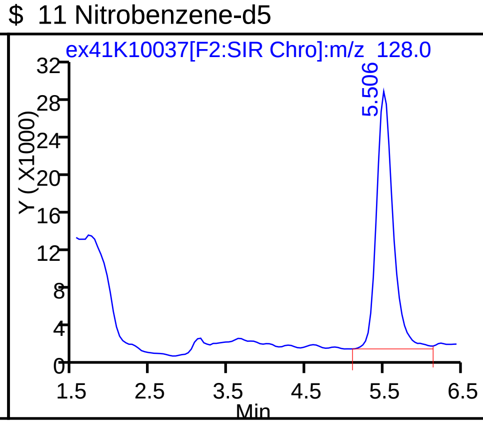
9 Nitroglycerin



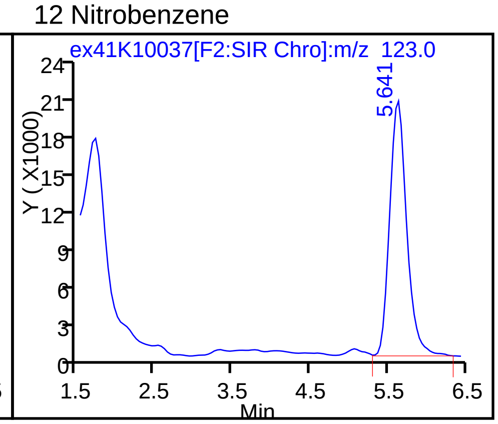
10 2,4,6-Trinitrotoluene



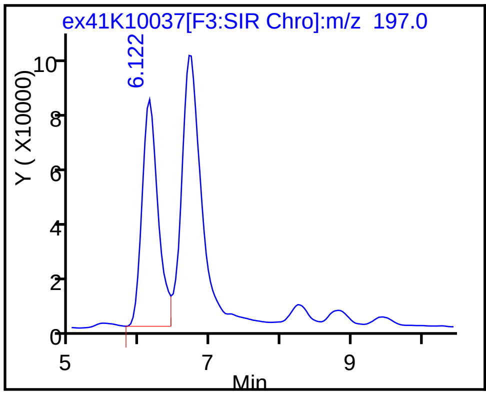
$ 11 Nitrobenzene-d5



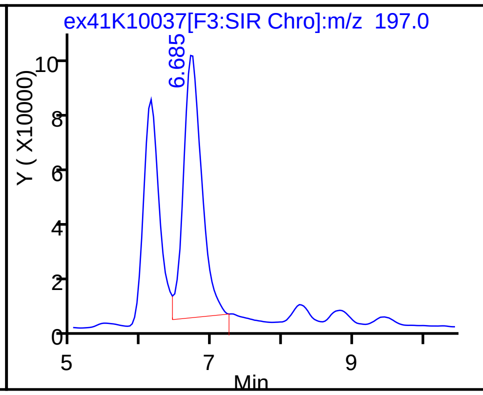
12 Nitrobenzene



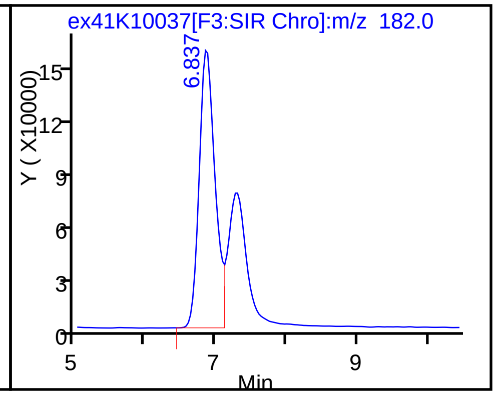
14 4-Amino-2,6-dinitrotoluene



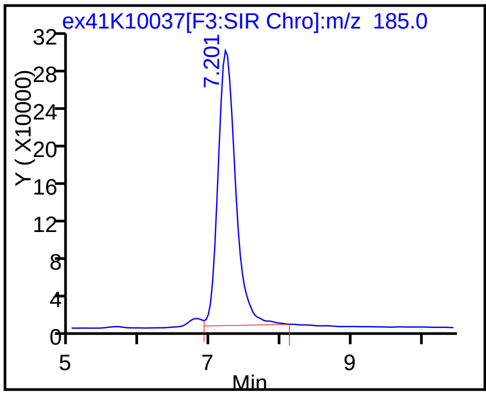
16 2-Amino-4,6-dinitrotoluene



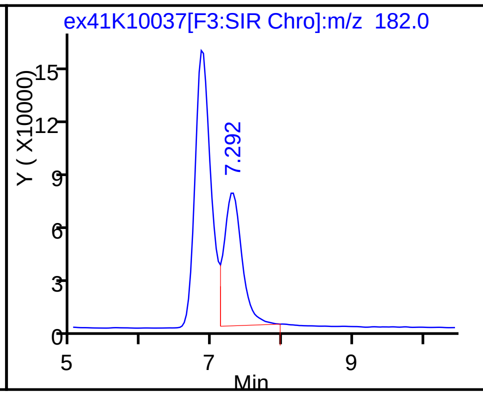
17 2,6-Dinitrotoluene



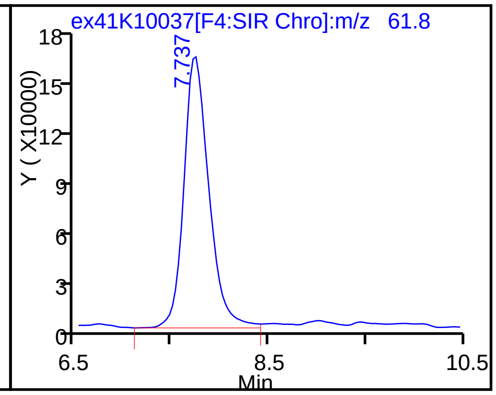
* 18 2,4-dinitrotoluene-d3



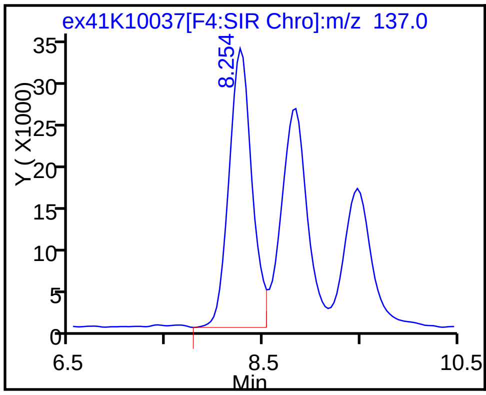
19 2,4-Dinitrotoluene



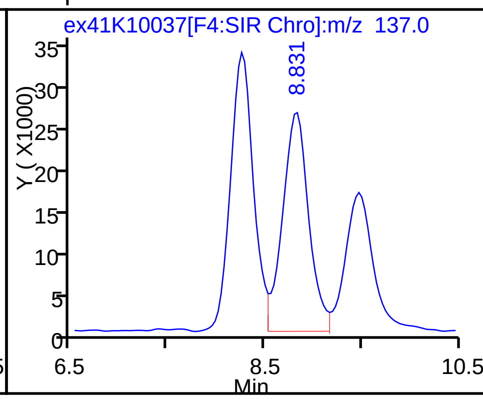
20 PETN



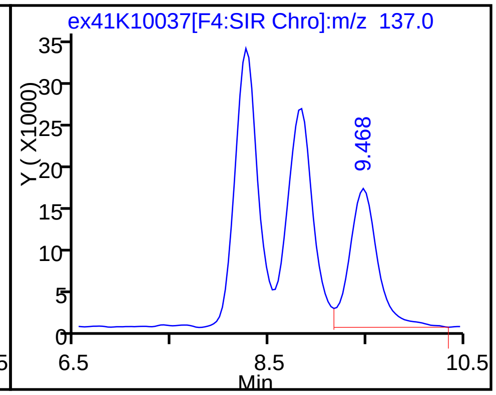
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Lab Sample ID: CCV 280-95630/43   Calibration Date: 11/10/2011 18:54

Instrument ID: LC_LCMS4   Calib Start Date: 11/10/2011 10:21

GC Column: IonPac   ID: 2.00(mm)   Calib End Date: 11/10/2011 11:34

Lab File ID: ex41K10045.d   Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HMX	Lin1		1.924		92.9	100	-7.1	30.0
RDX	Lin1		0.9854		102	98.7	3.0	30.0
1,3,5-Trinitrobenzene	Lin1		0.9383		90.4	100	-9.7	30.0
Tetryl	Lin1		0.999		78.0	99.4	-21.5	30.0
1,3-Dinitrobenzene	Lin1		1.058		98.1	101	-3.3	30.0
Nitroglycerin	Lin1		6.145		97.4	100	-2.6	30.0
2,4,6-Trinitrotoluene	Lin1		4.624		94.9	100	-5.2	30.0
Nitrobenzene	Lin1		0.9421		104	99.9	4.1	30.0
4-Amino-2,6-dinitrotoluene	Lin1		1.175		86.9	98.7	-12.0	30.0
2-Amino-4,6-dinitrotoluene	Lin1		1.767		92.5	100	-7.6	30.0
2,6-Dinitrotoluene	Lin1		2.364		92.4	100	-7.7	30.0
2,4-Dinitrotoluene	Lin1		1.286		100	100	-0.2	30.0
PETN	Lin1		2.192		95.6	99.8	-4.2	30.0
2-Nitrotoluene	Lin1		0.5361		99.9	99.1	0.8	30.0
4-Nitrotoluene	Lin1		0.4939		106	99.5	6.8	30.0
3-Nitrotoluene	Lin1		0.3468		118	98.8	19.3	30.0
Nitrobenzene-d5	Lin1		1.202		107	100	6.5	30.0

FORM VII 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10045.d
Lims ID: CCV Client ID:
Inject. Date: 10-Nov-2011 18:54:02 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: 11/10/11EX5 CCV 100 ug/L 280-0002741-043
Misc. Info.: ex41K10 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 6
Lims Batch ID: 95630 Lims Sample ID: 43
Sublist: chrom-8321exp4-25*sub4
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m
Last Update: 11-Nov-2011 06:40:41 Calib Date: 10-Nov-2011 11:34:20
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

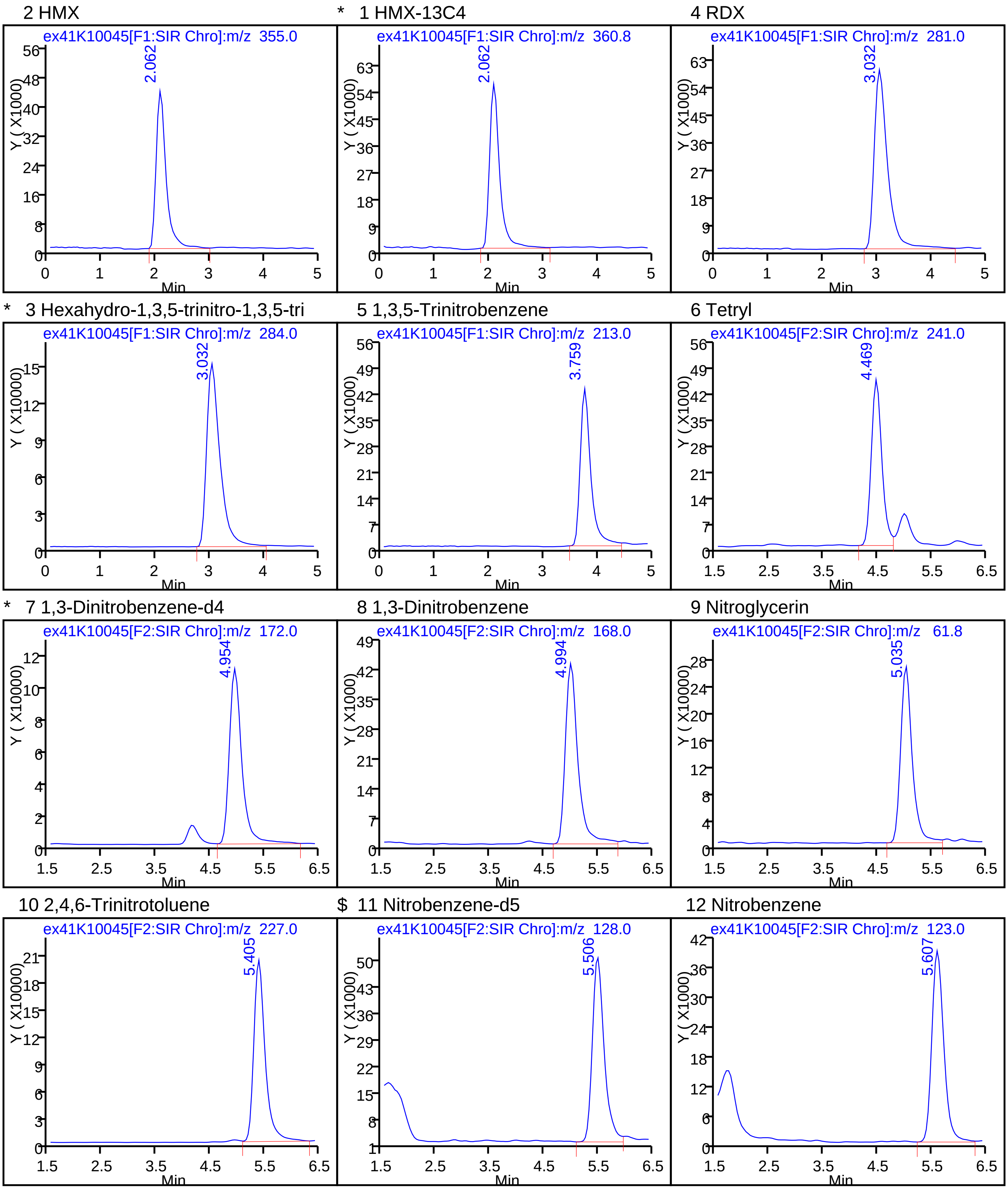
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	560431	92.9			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		728168	250.0			
4 RDX										
1	281.0	3.032	3.032	0.000	1.000	1014552	101.7			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2608006	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.759	3.759	0.000	1.000	586443	90.4			
6 Tetryl										
2	241.0	4.469	4.469	0.000	0.902	620118	78.0			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.954	4.954	0.000		1615374	258.7			
8 1,3-Dinitrobenzene										
2	168.0	4.994	4.994	0.000	1.008	669559	98.1			
9 Nitroglycerin										
2	61.8	5.035	5.035	0.000	1.016	3836950	97.4			
10 2,4,6-Trinitrotoluene										
2	227.0	5.405	5.405	0.000	1.091	2889905	94.9			
$ 11 Nitrobenzene-d5										
2	128.0	5.506	5.506	0.000	1.111	750749	106.5			
12 Nitrobenzene										
2	123.0	5.607	5.607	0.000	1.132	587609	104.0			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.088	6.088	0.000	0.845	2442634	86.9			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.685	6.685	0.000	0.928	3723599	92.5			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
17 2,6-Dinitrotoluene										
3	182.0	6.837	6.837	0.000	0.949	4982720	92.4			
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.201	7.201	0.000		5263730	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.262	7.262	0.000	1.008	2716226	100.1			
20 PETN										
4	61.8	7.707	7.707	0.000	1.000	4605401	95.6			
22 o-Nitrotoluene										
4	137.0	8.223	8.223	0.000	1.000	1118589	99.9			
23 p-Nitrotoluene										
4	137.0	8.770	8.770	0.000	1.000	1034598	106.3			
24 m-Nitrotoluene										
4	137.0	9.438	9.438	0.000	1.000	721343	117.9			

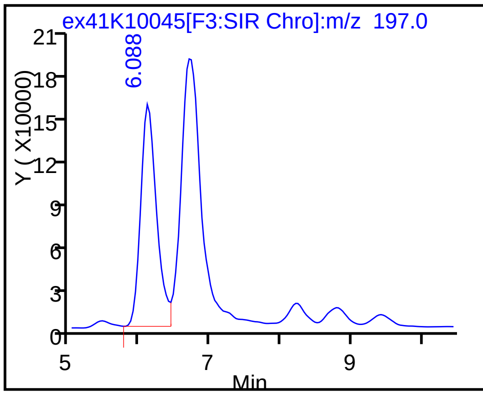
Report Date: 11-Nov-2011 06:40:42 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10045.d

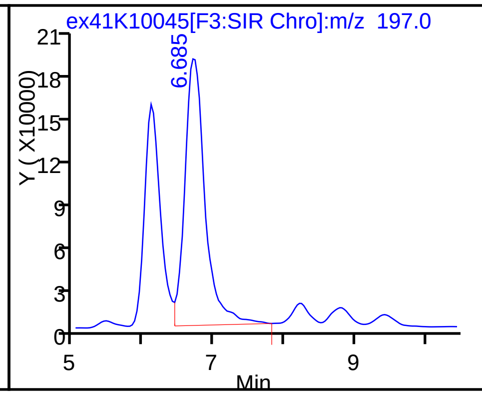
Injection Date:	10-Nov-2011 18:54:02	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95630	Lims Sample ID:	43
Operator ID:		Injection Vol:	40.00 ul



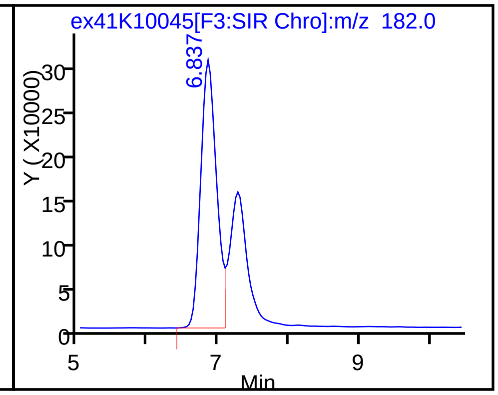
14 4-Amino-2,6-dinitrotoluene



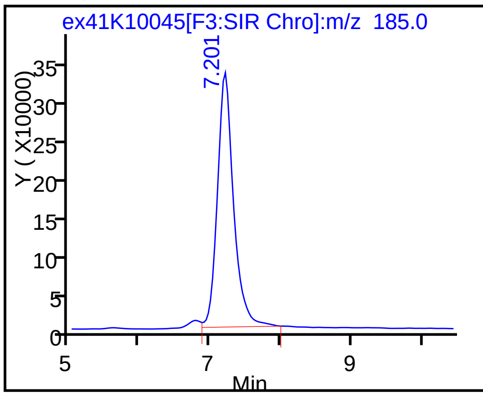
16 2-Amino-4,6-dinitrotoluene



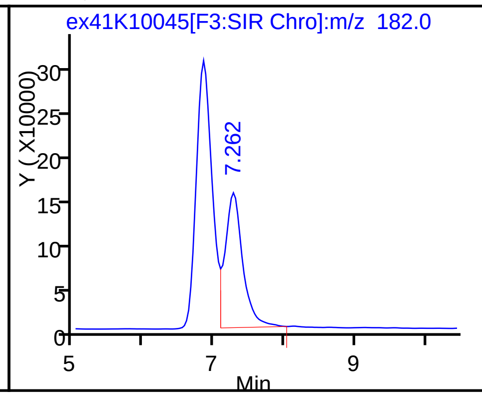
17 2,6-Dinitrotoluene



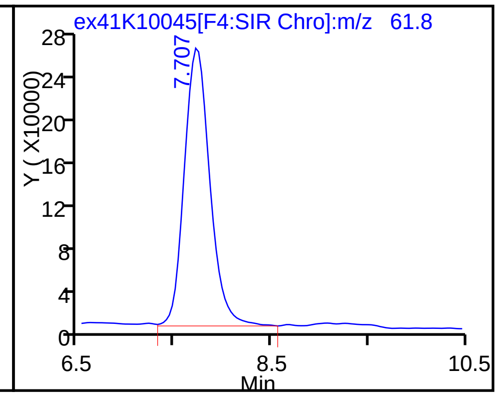
* 18 2,4-dinitrotoluene-d3



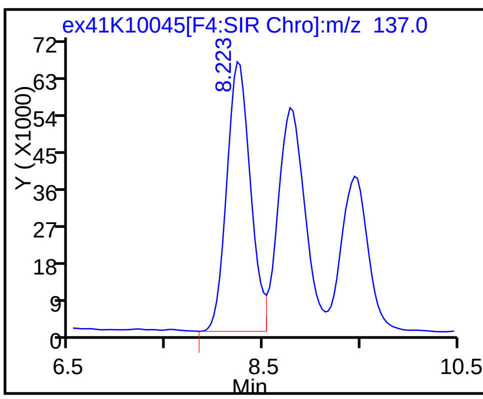
19 2,4-Dinitrotoluene



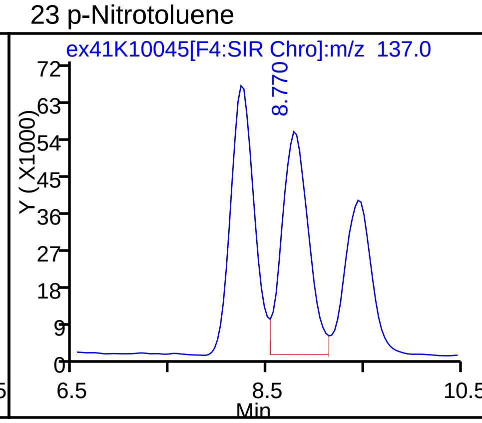
20 PETN



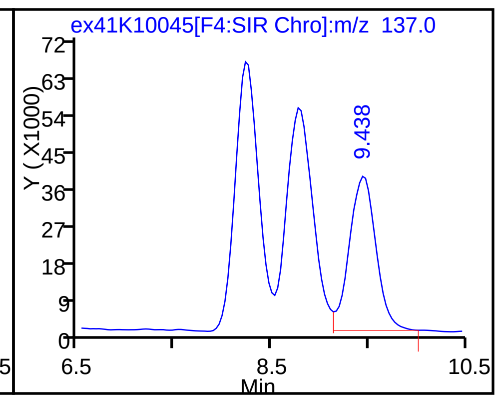
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Client Sample ID: Lab Sample ID: MB 280-95077/1-A

Matrix: Water Lab File ID: ex41K10013.d

Analysis Method: 8321B Date Collected:

Extraction Method: 3535 Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1000(mL) Date Analyzed: 11/10/2011 12:24

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.050	U	0.10	0.050	0.017
99-65-0	1,3-Dinitrobenzene	0.050	U	0.10	0.050	0.014
118-96-7	2,4,6-Trinitrotoluene	0.050	U	0.10	0.050	0.022
121-14-2	2,4-Dinitrotoluene	0.050	U	0.10	0.050	0.019
606-20-2	2,6-Dinitrotoluene	0.050	U	0.10	0.050	0.022
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	0.10	0.050	0.021
88-72-2	2-Nitrotoluene	0.050	U	0.10	0.050	0.022
99-08-1	3-Nitrotoluene	0.050	U	0.10	0.050	0.025
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	0.10	0.050	0.019
99-99-0	4-Nitrotoluene	0.050	U	0.10	0.050	0.026
2691-41-0	HMX	0.050	U	0.10	0.050	0.019
98-95-3	Nitrobenzene	0.050	U	0.10	0.050	0.033
55-63-0	Nitroglycerin	0.050	U	0.14	0.050	0.045
78-11-5	PETN	0.050	U	0.10	0.050	0.018
121-82-4	RDX	0.050	U	0.10	0.050	0.021
479-45-8	Tetryl	0.050	U	0.10	0.050	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	80		48-130

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10013.d
Lims ID: MB 280-95077/1-A Client ID:
Inject. Date: 10-Nov-2011 12:24:50 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: MB 280-95077/1-A 280-0002741-011
Misc. Info.: ex41K10 0.1%HAC
Operator: Instrument ID: LC_LCMS4
Vol. Injected: 40.0000 ALS Bottle#: 43
Lims Batch ID: 95629 Lims Sample ID: 11
Raw Data: Smoothed

Method: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m
Last Update: 11-Nov-2011 06:40:12 Calib Date: 10-Nov-2011 11:34:20
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d
Limit Group: LC - 8321A Expl
Integrator: RTE
Process Host: DENPC328

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		691893	250.0			
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.112	3.032	0.080		2834862	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	5.034	4.954	0.080		1736720	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.607	5.506	0.101	1.114	595942	78.6			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16 2-Amino-4,6-dinitrotoluene										1
3	197.0		6.685							
17 2,6-Dinitrotoluene										1
3	182.0		6.837							
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.322	7.201	0.121		4510410	250.0			
19 2,4-Dinitrotoluene										1
3	182.0		7.261							
20 PETN										
4	61.8		7.707							
21 3,5-Dinitrotoluene										1
3	182.0		7.808							
22 o-Nitrotoluene										1
4	137.0		8.254							
23 p-Nitrotoluene										1
4	137.0		8.770							
24 m-Nitrotoluene										1
4	137.0		9.438							
25 2,4,6-Trinitro-3-xylene										1
4	241.0		10.258							

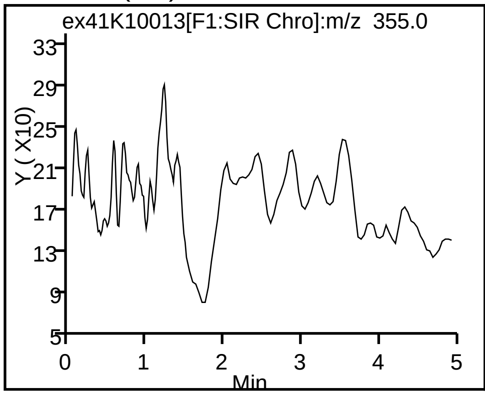
QC Flag Legend

Processing Flags
1 - Missing Peaks

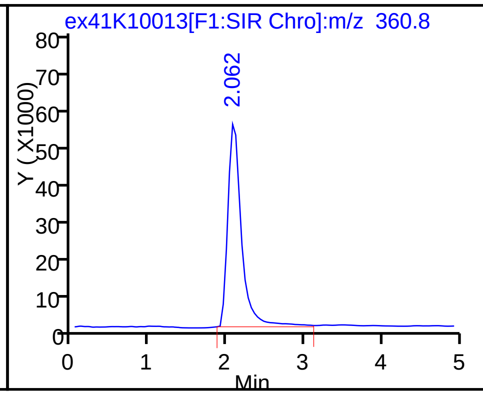
Report Date: 11-Nov-2011 06:40:17 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10013.d

Injection Date:	10-Nov-2011 12:24:50	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	11
Operator ID:		Injection Vol:	40.00 ul

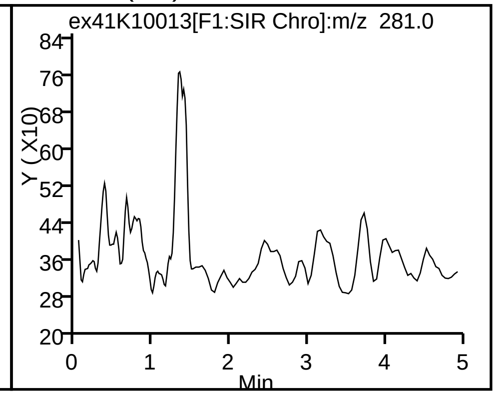
2 HMX (ND)



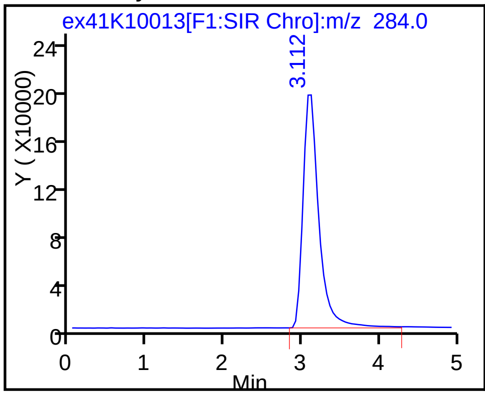
* 1 HMX-13C4



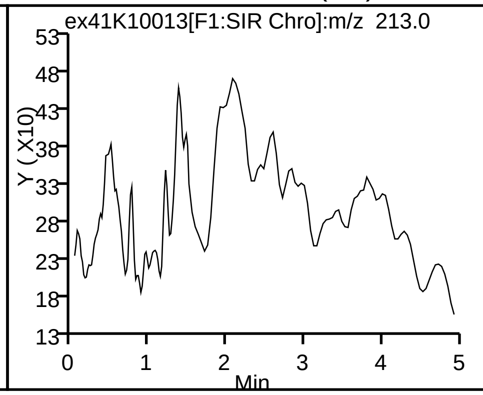
4 RDX (ND)



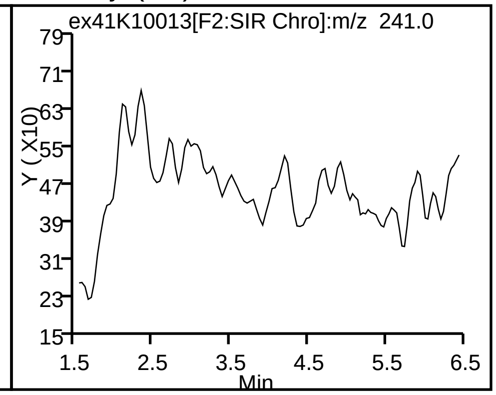
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



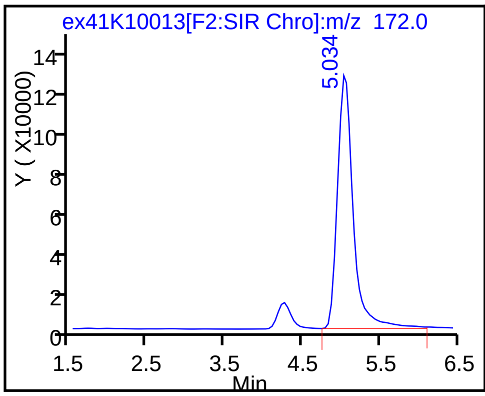
5 1,3,5-Trinitrobenzene (ND)



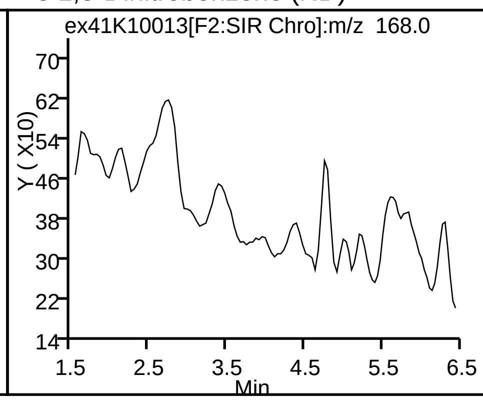
6 Tetryl (ND)



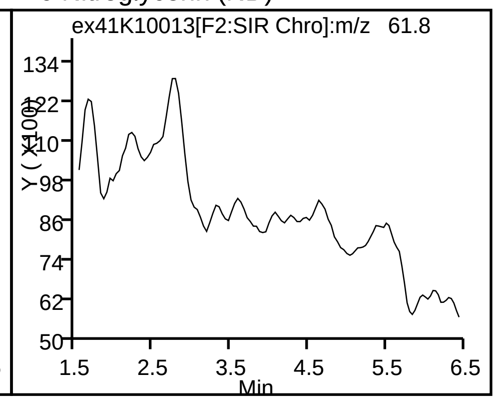
* 7 1,3-Dinitrobenzene-d4



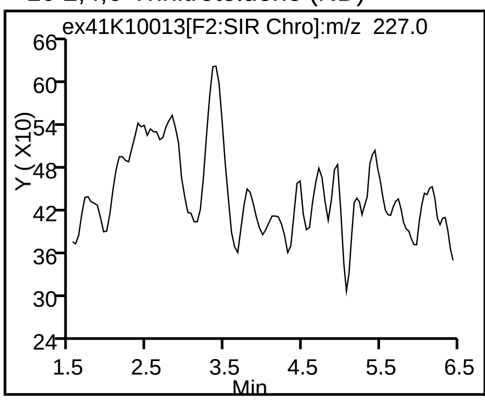
8 1,3-Dinitrobenzene (ND)



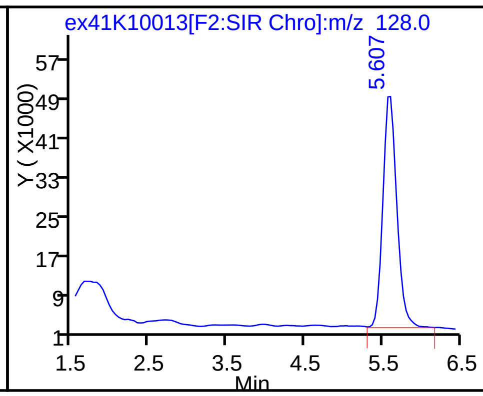
9 Nitroglycerin (ND)



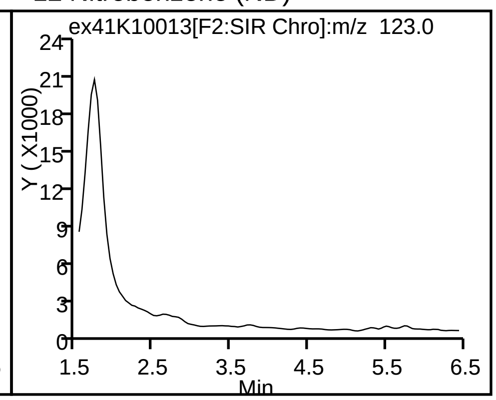
10 2,4,6-Trinitrotoluene (ND)



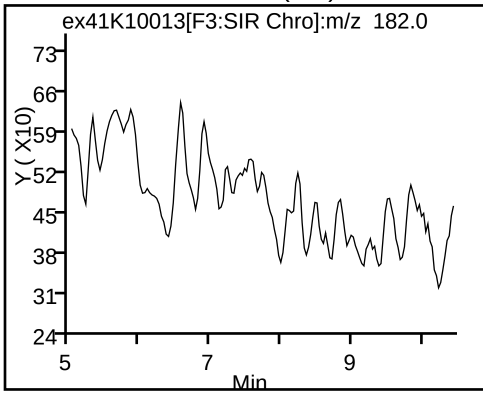
$ 11 Nitrobenzene-d5



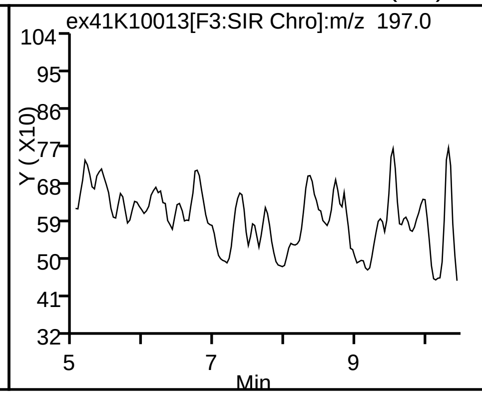
12 Nitrobenzene (ND)



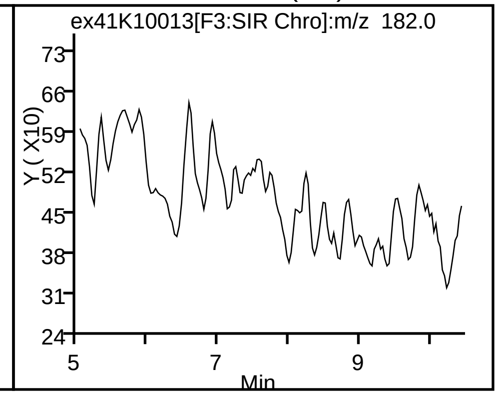
13 3,4-Dinitrotoluene (ND)



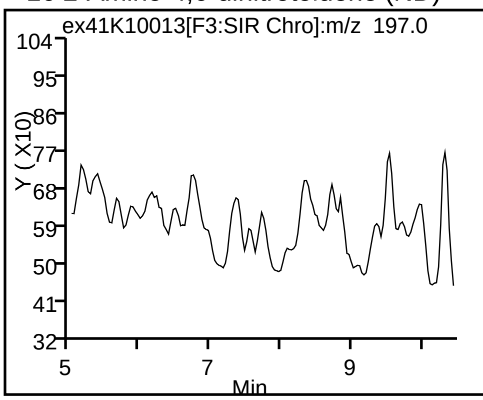
14 4-Amino-2,6-dinitrotoluene (ND)



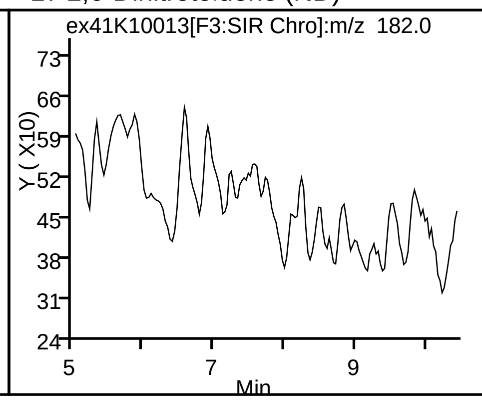
15 2,3-Dinitrotoluene (ND)



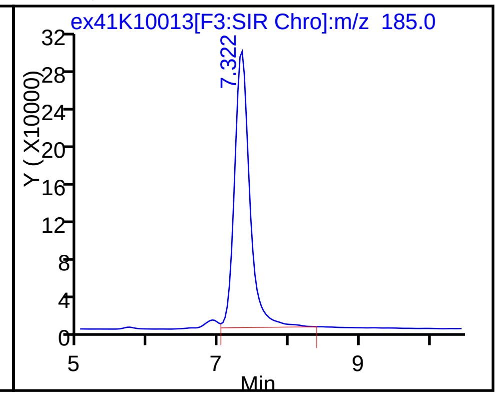
16 2-Amino-4,6-dinitrotoluene (ND)



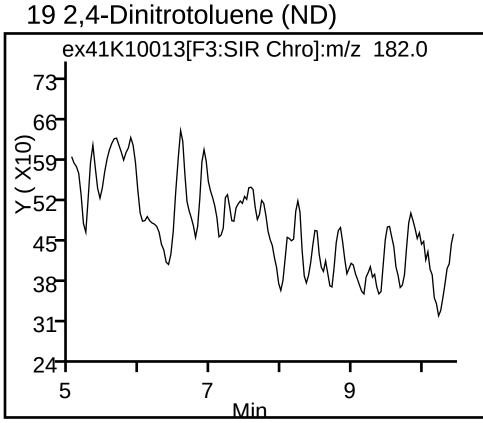
17 2,6-Dinitrotoluene (ND)



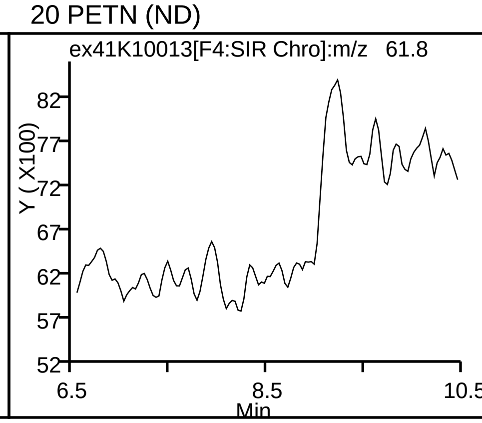
* 18 2,4-dinitrotoluene-d3



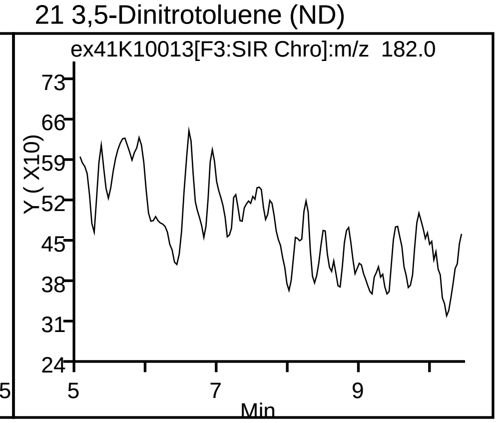
19 2,4-Dinitrotoluene (ND)



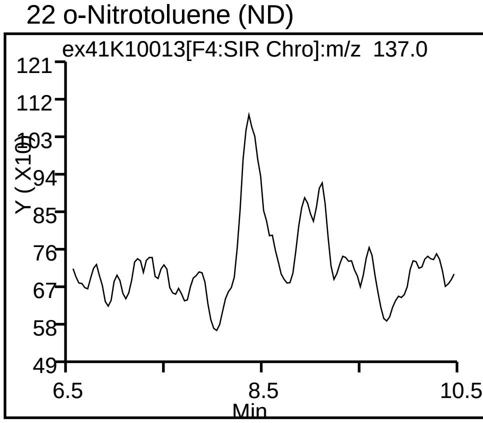
20 PETN (ND)



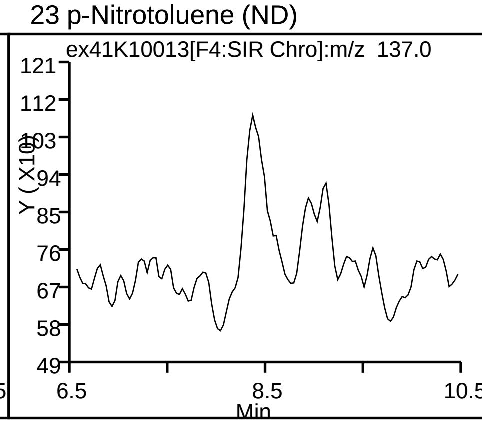
21 3,5-Dinitrotoluene (ND)



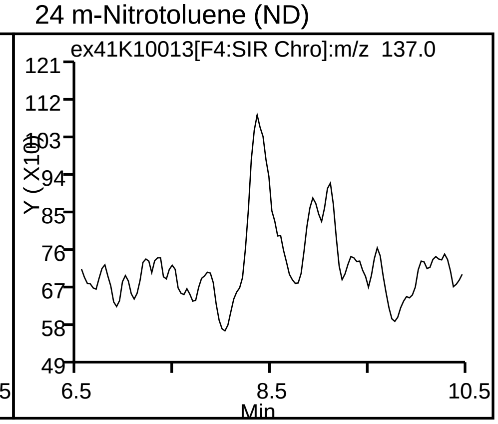
22 o-Nitrotoluene (ND)



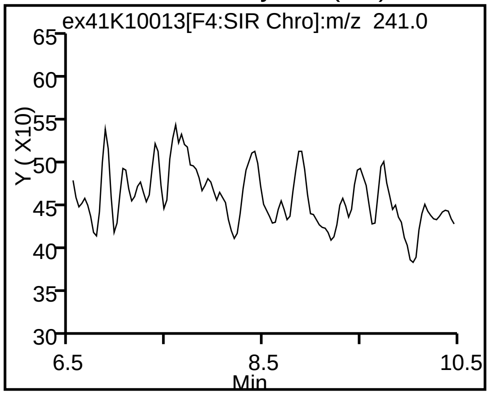
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Client Sample ID: Lab Sample ID: ICB 280-95626/8

Matrix: Water Lab File ID: ex41K10010.d

Analysis Method: 8321B Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 11/10/2011 11:46

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 40(uL) GC Column: IonPac ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95626 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.050	U	20	0.050	3.4
99-65-0	1,3-Dinitrobenzene	0.050	U	20	0.050	2.8
118-96-7	2,4,6-Trinitrotoluene	0.050	U	20	0.050	4.4
121-14-2	2,4-Dinitrotoluene	0.050	U	20	0.050	3.8
606-20-2	2,6-Dinitrotoluene	0.050	U	20	0.050	4.4
35572-78-2	2-Amino-4,6-dinitrotoluene	0.050	U	20	0.050	4.2
88-72-2	2-Nitrotoluene	0.050	U	20	0.050	4.4
99-08-1	3-Nitrotoluene	0.050	U	20	0.050	5.0
19406-51-0	4-Amino-2,6-dinitrotoluene	0.050	U	20	0.050	3.8
99-99-0	4-Nitrotoluene	0.050	U	20	0.050	5.2
2691-41-0	HMX	0.050	U	20	0.050	3.8
98-95-3	Nitrobenzene	0.050	U	20	0.050	6.6
55-63-0	Nitroglycerin	0.050	U	28	0.050	9.0
78-11-5	PETN	0.050	U	20	0.050	3.6
121-82-4	RDX	0.050	U	20	0.050	4.2
479-45-8	Tetryl	0.050	U	20	0.050	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5			

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10010.d		
Lims ID:	ICB	Client ID:	
Inject. Date:	10-Nov-2011 11:46:25	Dil. Factor:	1.0000
Sample Type:	ICB		
Sample ID:	11/10/11BLK ICB 280-0002741-008		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	1
Lims Batch ID:	95626	Lims Sample ID:	8
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:12	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										1
1	355.0		2.062							
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		826307	250.0			
4 RDX										1
1	281.0		3.032							
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.032	3.032	0.000		2610667	250.0			
5 1,3,5-Trinitrobenzene										1
1	213.0		3.759							
6 Tetryl										1
2	241.0		4.469							
* 7 1,3-Dinitrobenzene-d4										
2	172.0	4.994	4.954	0.040		1894140	258.7			
8 1,3-Dinitrobenzene										1
2	168.0		5.035							
9 Nitroglycerin										1
2	61.8		5.035							
10 2,4,6-Trinitrotoluene										1
2	227.0		5.405							
$ 11 Nitrobenzene-d5										
2	128.0	5.540	5.506	0.034	1.109	405281	49.0			
12 Nitrobenzene										1
2	123.0		5.607							
13 3,4-Dinitrotoluene										1
3	182.0		5.617							
14 4-Amino-2,6-dinitrotoluene										1
3	197.0		6.088							
15 2,3-Dinitrotoluene										1
3	182.0		6.425							

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
16	2-Amino-4,6-dinitrotoluene									1
3	197.0		6.685							
17	2,6-Dinitrotoluene									1
3	182.0		6.837							
* 18	2,4-dinitrotoluene-d3									
3	185.0	7.261	7.201	0.060		5104410	250.0			
19	2,4-Dinitrotoluene									1
3	182.0		7.261							
20	PETN									1
4	61.8		7.707							
21	3,5-Dinitrotoluene									1
3	182.0		7.808							
22	o-Nitrotoluene									1
4	137.0		8.254							
23	p-Nitrotoluene									1
4	137.0		8.770							
24	m-Nitrotoluene									
4	137.0		9.438							
25	2,4,6-Trinitro-3-xylene									1
4	241.0		10.258							

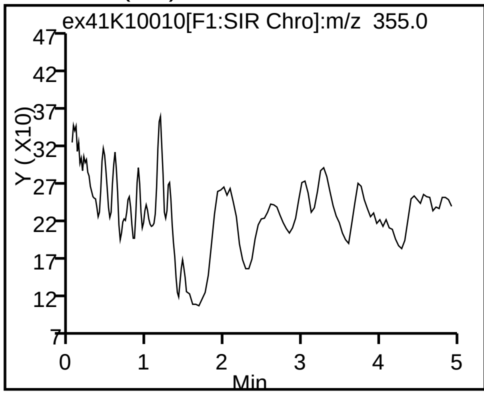
QC Flag Legend

Processing Flags
1 - Missing Peaks

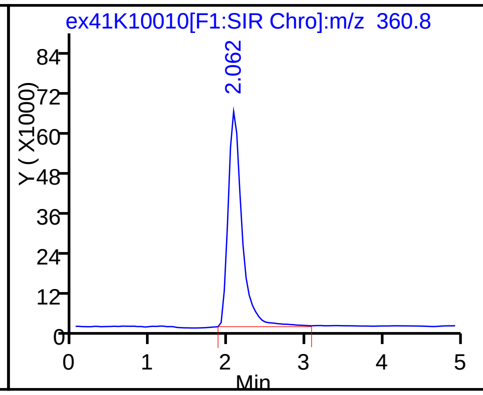
Report Date: 11-Nov-2011 06:40:14 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10010.d

Injection Date:	10-Nov-2011 11:46:25	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95626	Lims Sample ID:	8
Operator ID:		Injection Vol:	40.00 ul

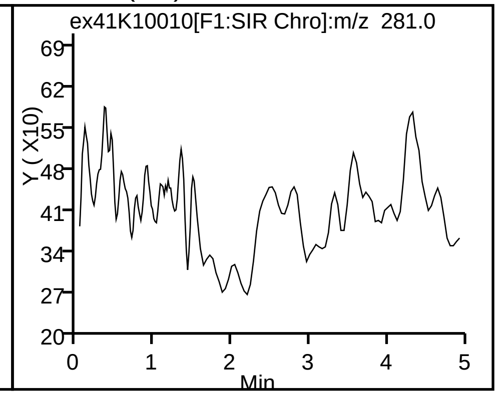
2 HMX (ND)



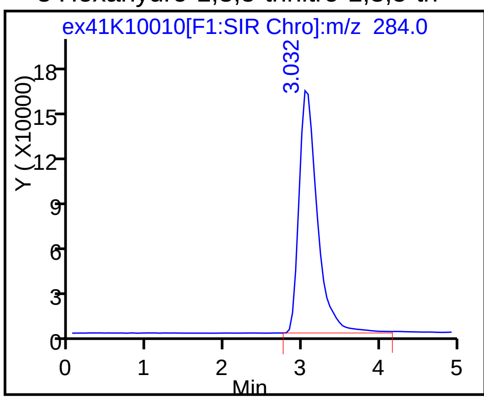
* 1 HMX-13C4



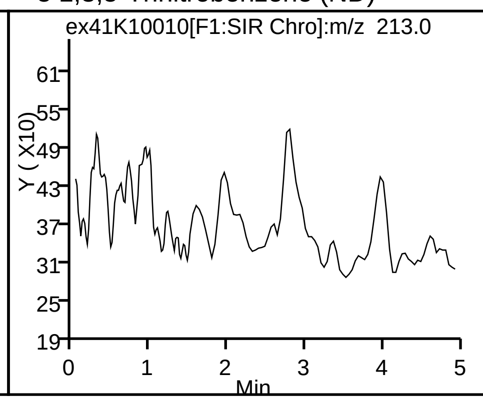
4 RDX (ND)



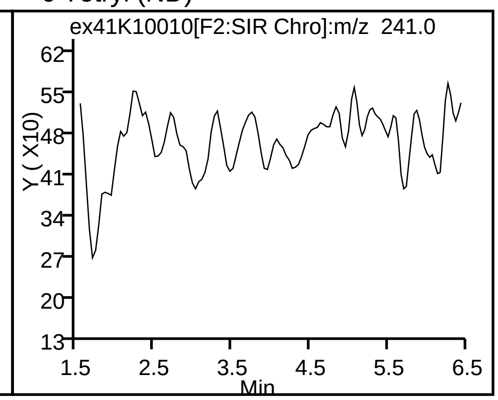
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



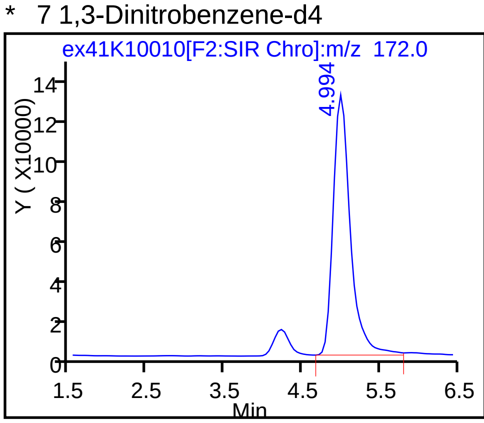
5 1,3,5-Trinitrobenzene (ND)



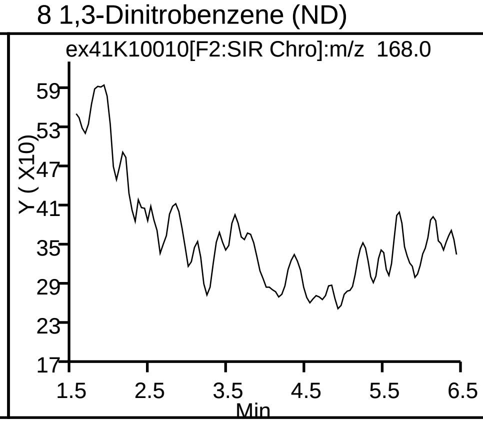
6 Tetryl (ND)



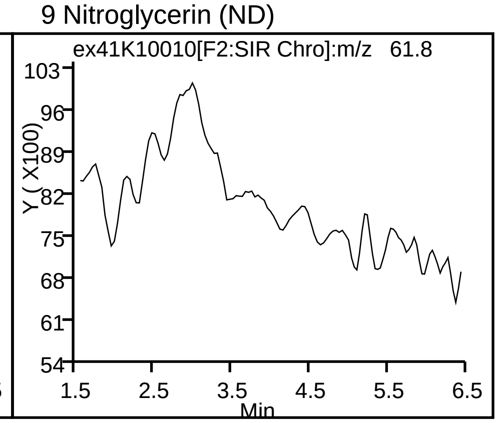
* 7 1,3-Dinitrobenzene-d4



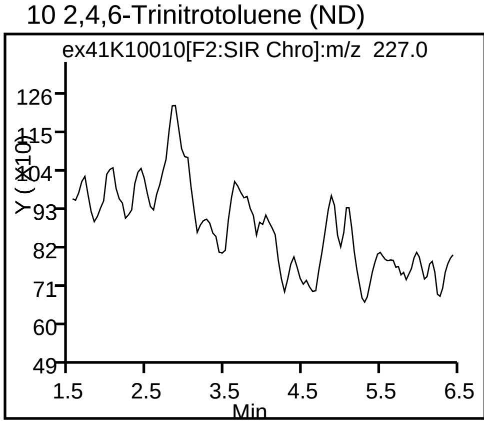
8 1,3-Dinitrobenzene (ND)



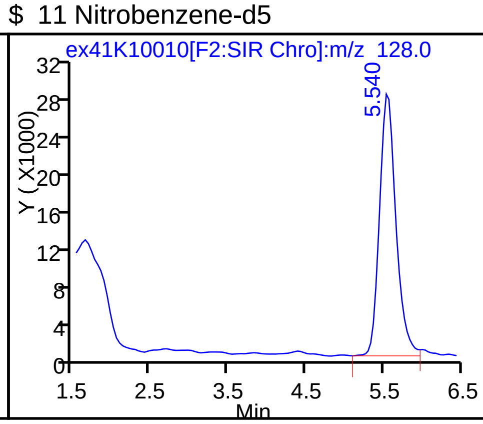
9 Nitroglycerin (ND)



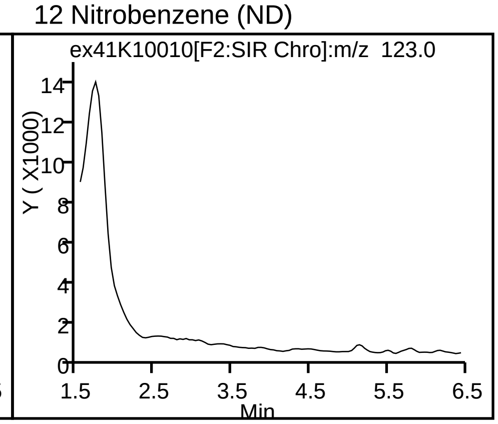
10 2,4,6-Trinitrotoluene (ND)



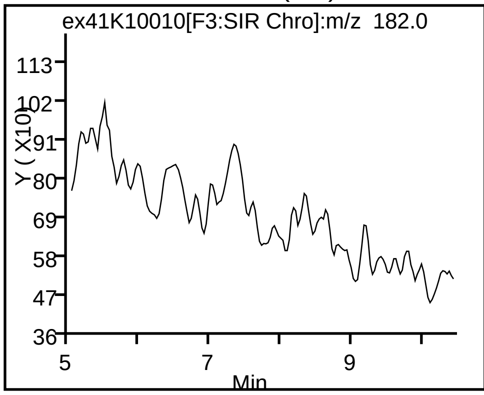
$ 11 Nitrobenzene-d5



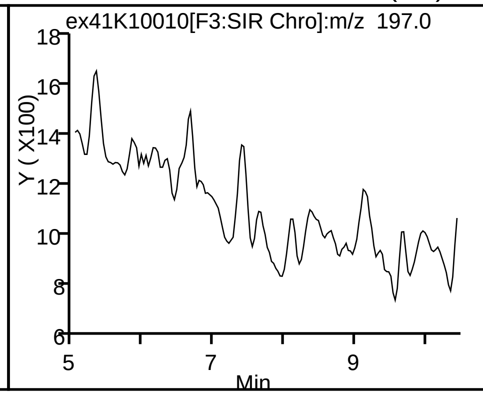
12 Nitrobenzene (ND)



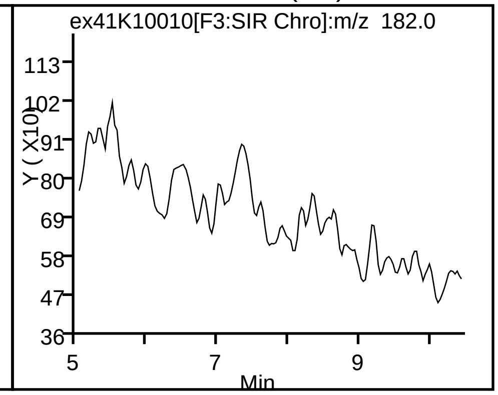
13 3,4-Dinitrotoluene (ND)



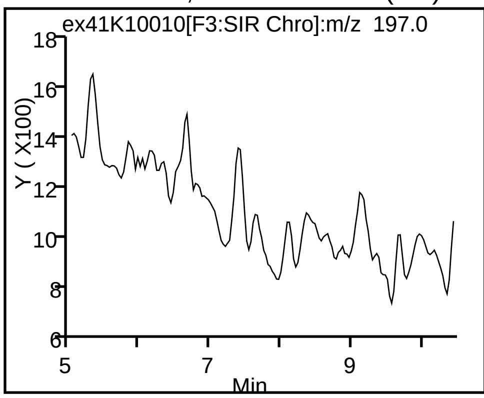
14 4-Amino-2,6-dinitrotoluene (ND)



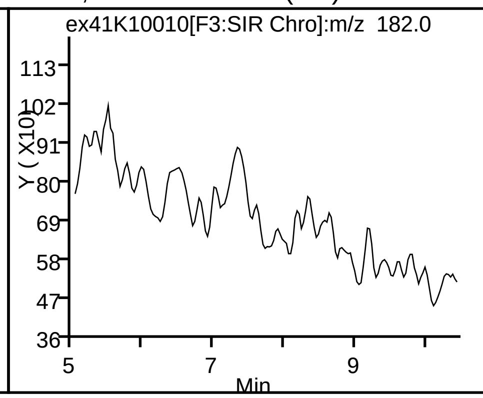
15 2,3-Dinitrotoluene (ND)



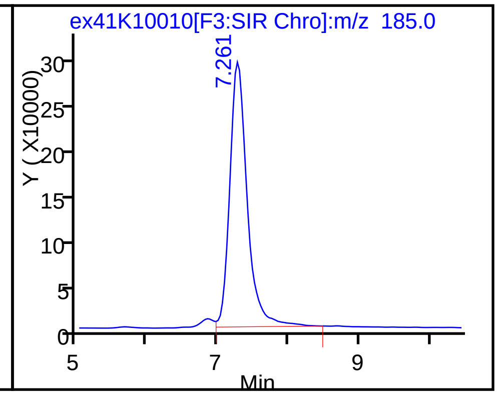
16 2-Amino-4,6-dinitrotoluene (ND)



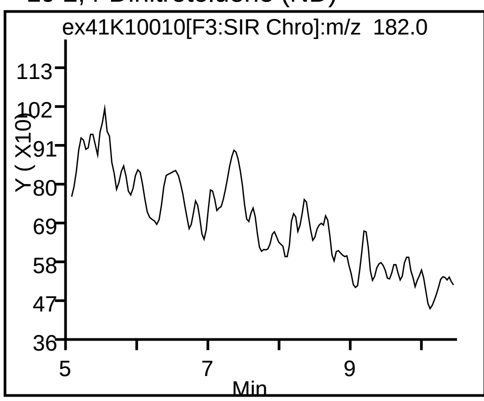
17 2,6-Dinitrotoluene (ND)



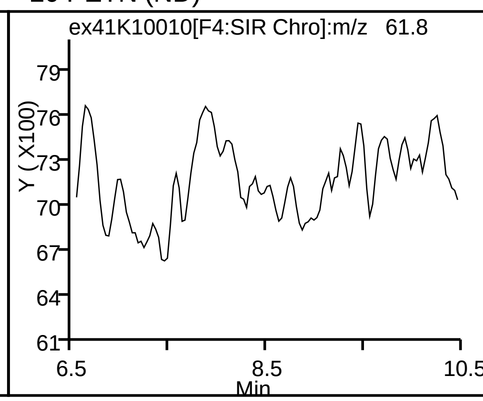
* 18 2,4-dinitrotoluene-d3



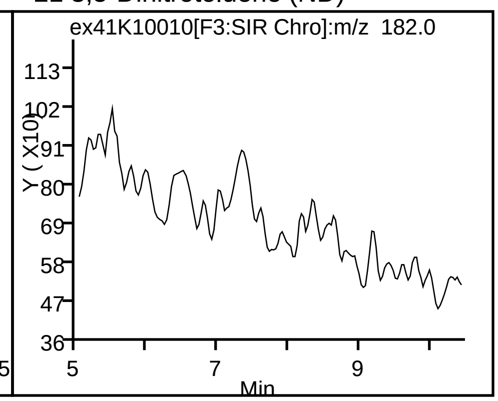
19 2,4-Dinitrotoluene (ND)



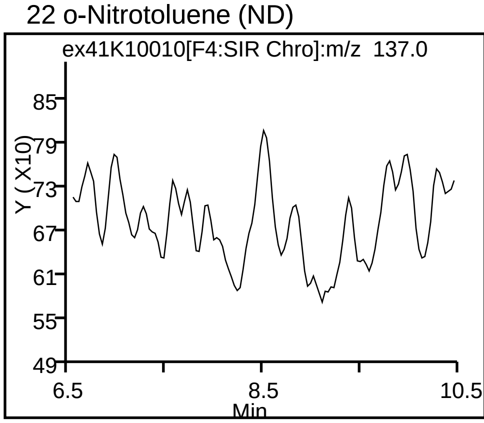
20 PETN (ND)



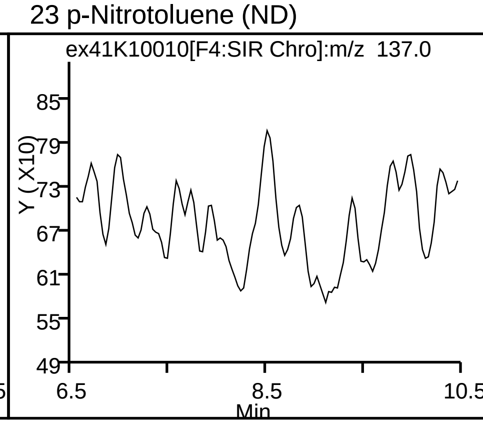
21 3,5-Dinitrotoluene (ND)



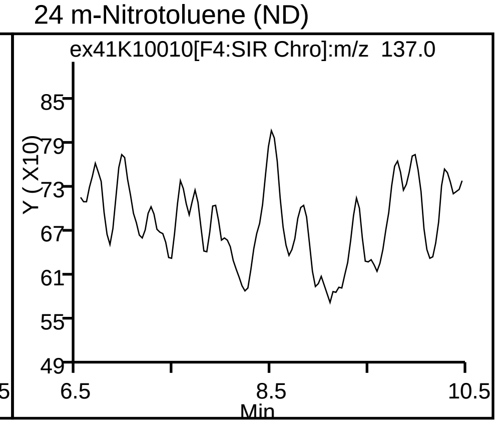
22 o-Nitrotoluene (ND)



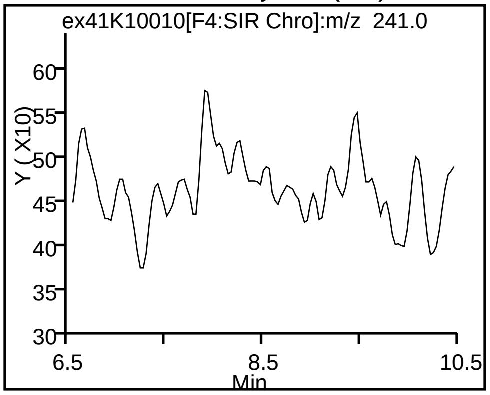
23 p-Nitrotoluene (ND)



24 m-Nitrotoluene (ND)



25 2,4,6-Trinitro-3-xylene (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Client Sample ID: Lab Sample ID: LCS 280-95077/2-A

Matrix: Water   Lab File ID: ex41K10014.d

Analysis Method: 8321B   Date Collected:

Extraction Method: 3535   Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1000(mL)   Date Analyzed: 11/10/2011 12:37

Con. Extract Vol.: 5(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629   Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.445		0.10	0.050	0.017
99-65-0	1,3-Dinitrobenzene	0.521		0.10	0.050	0.014
118-96-7	2,4,6-Trinitrotoluene	0.208		0.10	0.050	0.022
121-14-2	2,4-Dinitrotoluene	0.482		0.10	0.050	0.019
606-20-2	2,6-Dinitrotoluene	0.449		0.10	0.050	0.022
35572-78-2	2-Amino-4,6-dinitrotoluene	0.462		0.10	0.050	0.021
88-72-2	2-Nitrotoluene	0.365		0.10	0.050	0.022
99-08-1	3-Nitrotoluene	0.415		0.10	0.050	0.025
19406-51-0	4-Amino-2,6-dinitrotoluene	0.481		0.10	0.050	0.019
99-99-0	4-Nitrotoluene	0.402		0.10	0.050	0.026
2691-41-0	HMX	0.449		0.10	0.050	0.019
98-95-3	Nitrobenzene	0.382		0.10	0.050	0.033
55-63-0	Nitroglycerin	0.459		0.14	0.050	0.045
78-11-5	PETN	0.464		0.10	0.050	0.018
121-82-4	RDX	0.474		0.10	0.050	0.021
479-45-8	Tetryl	0.163		0.10	0.050	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	72		48-130

FORM I 8321B

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10014.d		
Lims ID:	LCS 280-95077/2-A	Client ID:	
Inject. Date:	10-Nov-2011 12:37:11	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	LCS 280-95077/2-A 280-0002741-012		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	44
Lims Batch ID:	95629	Lims Sample ID:	12
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:12	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

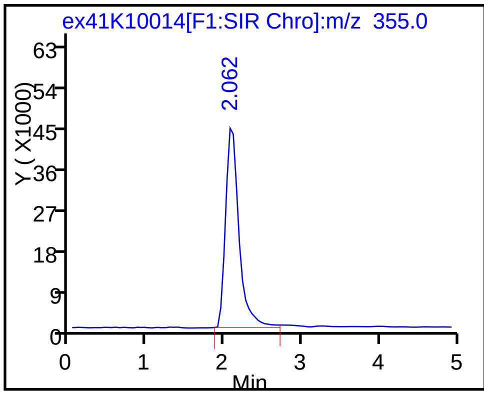
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	543342	89.7			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		730574	250.0			
4 RDX										
1	281.0	3.072	3.032	0.040	1.000	932678	94.8			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		2572681	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.839	3.759	0.080	1.000	661865	88.9			
6 Tetryl										
2	241.0	4.550	4.469	0.081	0.904	285833	32.5			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	5.034	4.954	0.080		1854587	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.102	5.035	0.067	1.013	816051	104.1			
9 Nitroglycerin										
2	61.8	5.102	5.035	0.067	1.013	4155490	91.8			
10 2,4,6-Trinitrotoluene										
2	227.0	5.506	5.405	0.101	1.094	1426049	41.6			
$ 11 Nitrobenzene-d5										
2	128.0	5.573	5.506	0.067	1.107	575033	71.0			
12 Nitrobenzene										
2	123.0	5.708	5.607	0.101	1.134	493709	76.4			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.189	6.088	0.101	0.849	2410610	96.1			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.806	6.685	0.121	0.933	3310136	92.3			
17 2,6-Dinitrotoluene										
3	182.0	6.958	6.837	0.121	0.954	4312021	89.8			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.292	7.201	0.091		4691186	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.383	7.261	0.122	1.012	2328372	96.3			
20 PETN										
4	61.8	7.828	7.707	0.121	1.000	3981049	92.7			
22 o-Nitrotoluene										
4	137.0	8.345	8.254	0.091	1.000	725893	73.0			
23 p-Nitrotoluene										
4	137.0	8.922	8.770	0.152	1.000	694006	80.4			
24 m-Nitrotoluene										
4	137.0	9.590	9.438	0.152	1.000	451502	83.0			

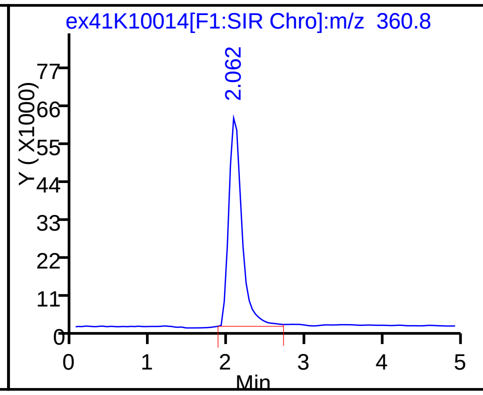
Report Date: 11-Nov-2011 06:40:18 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10014.d

Injection Date:	10-Nov-2011 12:37:11	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	12
Operator ID:		Injection Vol:	40.00 ul

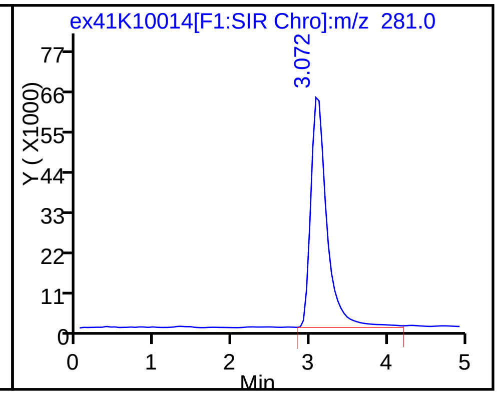
2 HMX



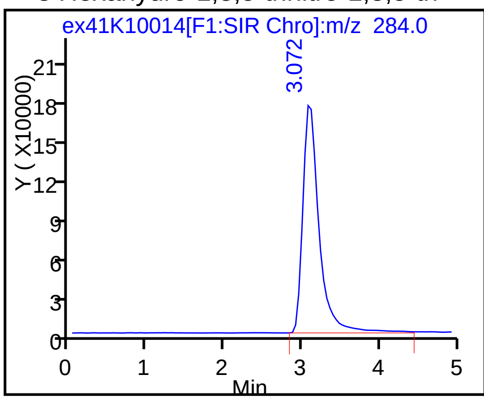
* 1 HMX-13C4



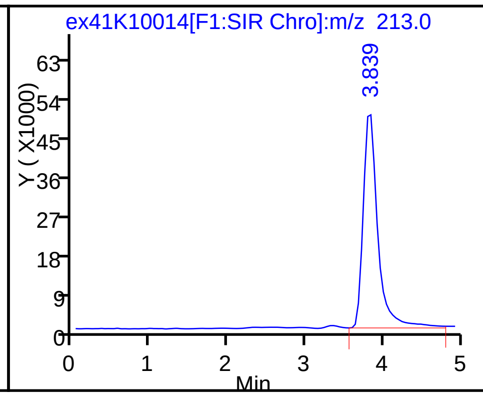
4 RDX



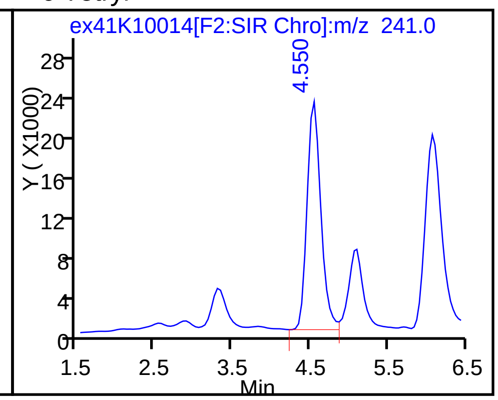
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



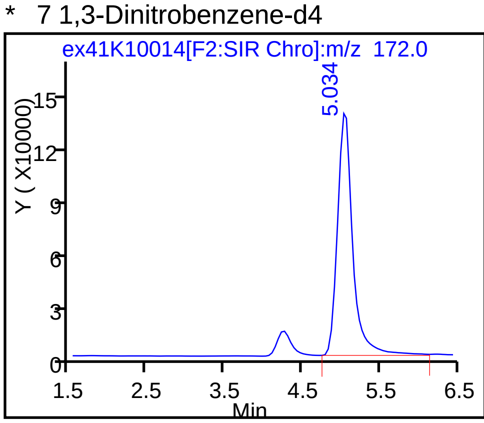
5 1,3,5-Trinitrobenzene



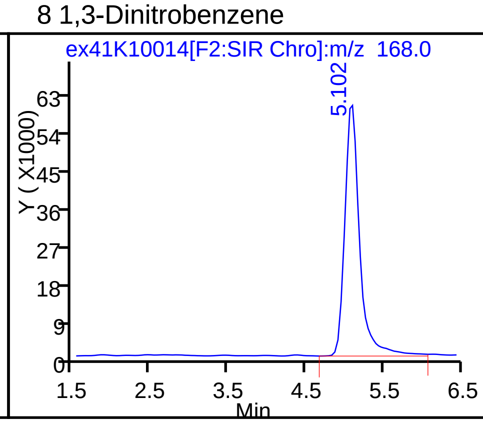
6 Tetryl



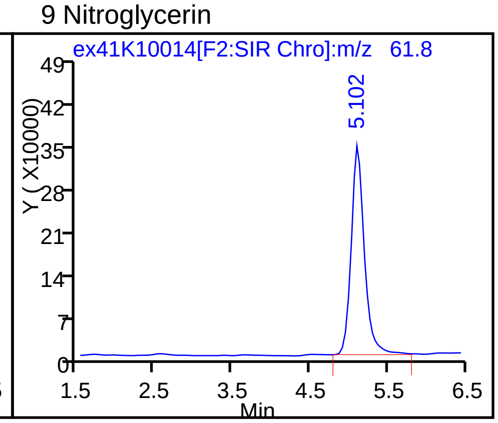
* 7 1,3-Dinitrobenzene-d4



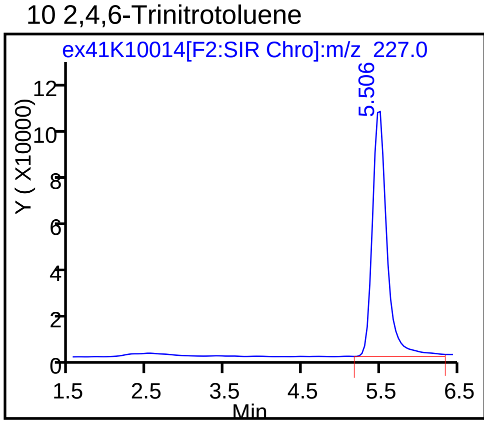
8 1,3-Dinitrobenzene



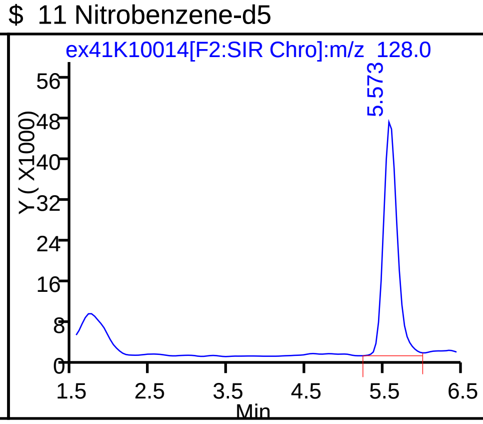
9 Nitroglycerin



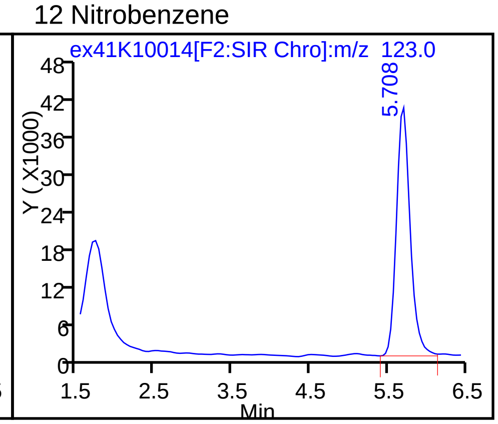
10 2,4,6-Trinitrotoluene



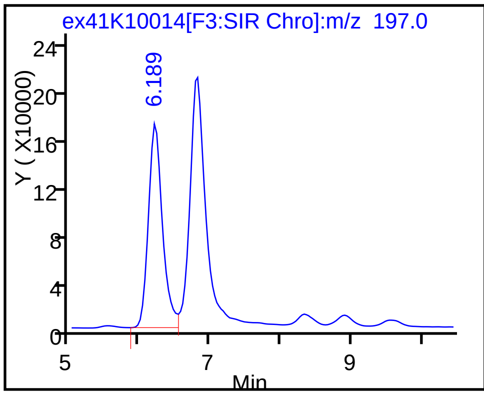
$ 11 Nitrobenzene-d5



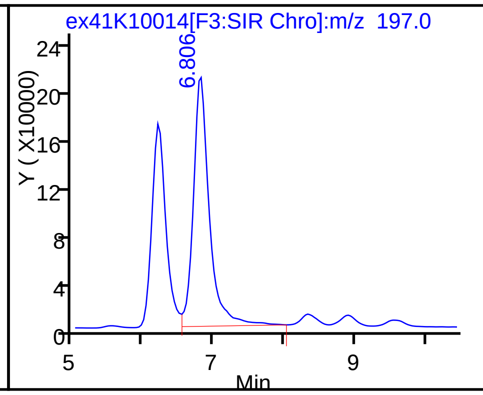
12 Nitrobenzene



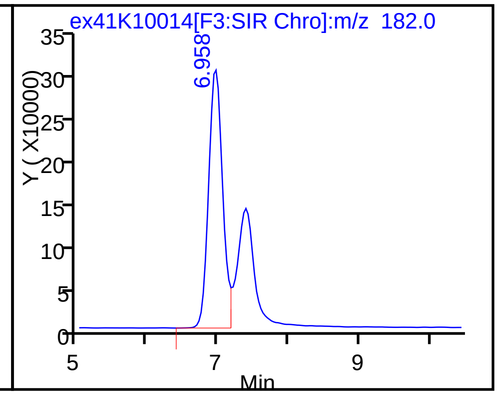
14 4-Amino-2,6-dinitrotoluene



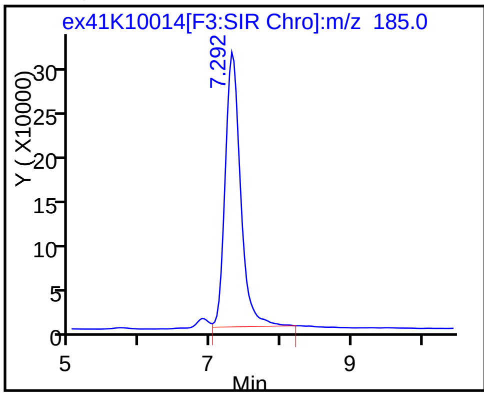
16 2-Amino-4,6-dinitrotoluene



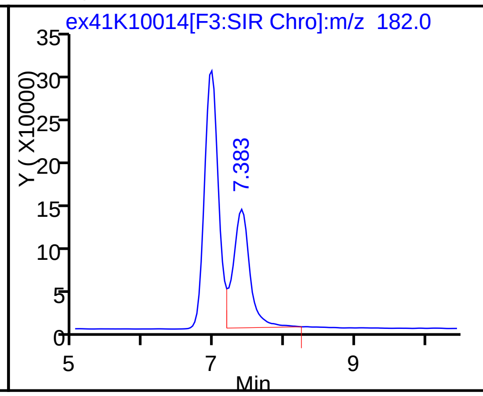
17 2,6-Dinitrotoluene



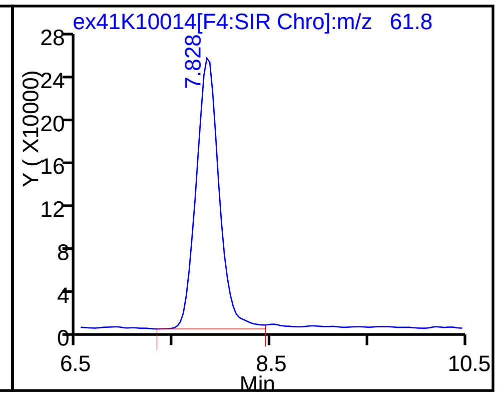
* 18 2,4-dinitrotoluene-d3



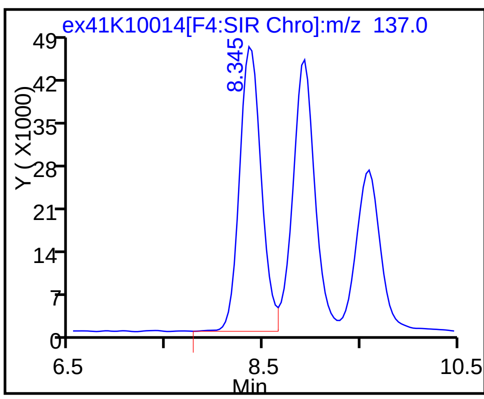
19 2,4-Dinitrotoluene



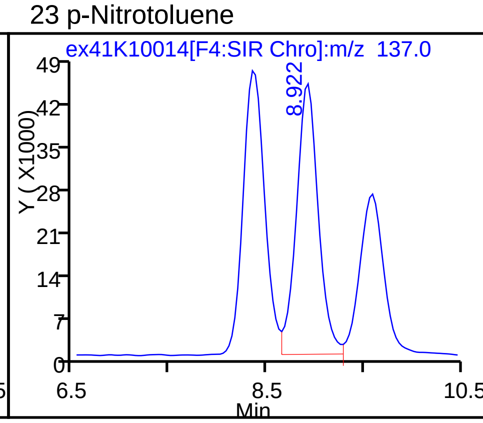
20 PETN



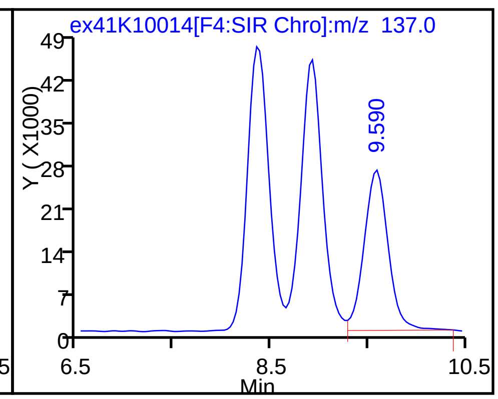
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 280-95077/3-A

Matrix: Water   Lab File ID: ex41K10015.d

Analysis Method: 8321B   Date Collected:

Extraction Method: 3535   Date Extracted: 11/07/2011 11:42

Sample wt/vol: 1000(mL)   Date Analyzed: 11/10/2011 12:49

Con. Extract Vol.: 5(mL)   Dilution Factor: 1

Injection Volume: 40(uL)   GC Column: IonPac   ID: 2(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 95629   Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
99-35-4	1,3,5-Trinitrobenzene	0.434		0.10	0.050	0.017
99-65-0	1,3-Dinitrobenzene	0.476		0.10	0.050	0.014
118-96-7	2,4,6-Trinitrotoluene	0.204		0.10	0.050	0.022
121-14-2	2,4-Dinitrotoluene	0.474		0.10	0.050	0.019
606-20-2	2,6-Dinitrotoluene	0.433		0.10	0.050	0.022
35572-78-2	2-Amino-4,6-dinitrotoluene	0.433		0.10	0.050	0.021
88-72-2	2-Nitrotoluene	0.361		0.10	0.050	0.022
99-08-1	3-Nitrotoluene	0.345		0.10	0.050	0.025
19406-51-0	4-Amino-2,6-dinitrotoluene	0.436		0.10	0.050	0.019
99-99-0	4-Nitrotoluene	0.354		0.10	0.050	0.026
2691-41-0	HMX	0.428		0.10	0.050	0.019
98-95-3	Nitrobenzene	0.379		0.10	0.050	0.033
55-63-0	Nitroglycerin	0.458		0.14	0.050	0.045
78-11-5	PETN	0.519		0.10	0.050	0.018
121-82-4	RDX	0.469		0.10	0.050	0.021
479-45-8	Tetryl	0.155		0.10	0.050	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	67		48-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10015.d		
Lims ID:	LCSD 280-95077/3-A	Client ID:	
Inject. Date:	10-Nov-2011 12:49:16	Dil. Factor:	1.0000
Sample Type:	LCSD		
Sample ID:	LCSD 280-95077/3-A 280-0002741-013		
Misc. Info.:	ex41K10 0.1%HAC		
Operator:		Instrument ID:	LC_LCMS4
Vol. Injected:	40.0000	ALS Bottle#:	45
Lims Batch ID:	95629	Lims Sample ID:	13
Raw Data:	Smoothed		

Method:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\8321exp4-25.m		
Last Update:	11-Nov-2011 06:40:12	Calib Date:	10-Nov-2011 11:34:20
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10009.d		
Limit Group:	LC - 8321A Expl		
Integrator:	RTE		
Process Host:	DENPC328		

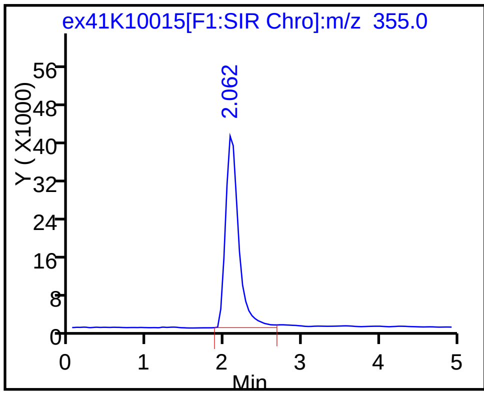
Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
2 HMX										
1	355.0	2.062	2.062	0.000	1.000	483611	85.5			
* 1 HMX-13C4										
1	360.8	2.062	2.062	0.000		682416	250.0			
4 RDX										
1	281.0	3.112	3.032	0.080	1.013	888043	93.8			
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri										
1	284.0	3.072	3.032	0.040		2475529	250.0			
5 1,3,5-Trinitrobenzene										
1	213.0	3.840	3.759	0.081	1.000	628238	86.8			
6 Tetryl										
2	241.0	4.550	4.469	0.081	0.904	263419	30.9			
* 7 1,3-Dinitrobenzene-d4										
2	172.0	5.035	4.954	0.081		1804961	258.7			
8 1,3-Dinitrobenzene										
2	168.0	5.068	5.035	0.033	1.007	726219	95.2			
9 Nitroglycerin										
2	61.8	5.102	5.035	0.067	1.013	4027623	91.5			
10 2,4,6-Trinitrotoluene										
2	227.0	5.472	5.405	0.067	1.087	1355828	40.7			
$ 11 Nitrobenzene-d5										
2	128.0	5.573	5.506	0.067	1.107	525028	66.6			
12 Nitrobenzene										
2	123.0	5.708	5.607	0.101	1.134	475908	75.7			
14 4-Amino-2,6-dinitrotoluene										
3	197.0	6.189	6.088	0.101	0.849	2400032	87.1			
16 2-Amino-4,6-dinitrotoluene										
3	197.0	6.776	6.685	0.091	0.929	3417247	86.6			
17 2,6-Dinitrotoluene										
3	182.0	6.958	6.837	0.121	0.954	4570019	86.5			

Det	Signal	RT	ADJ RT	DLT RT	REL RT	Response	On-Col Amt ug/l	Ratio Range	Ratio	Flags
* 18 2,4-dinitrotoluene-d3										
3	185.0	7.292	7.201	0.091		5162191	250.0			
19 2,4-Dinitrotoluene										
3	182.0	7.383	7.261	0.122	1.012	2519463	94.7			
20 PETN										
4	61.8	7.828	7.707	0.121	1.000	4893643	103.7			
22 o-Nitrotoluene										
4	137.0	8.345	8.254	0.091	1.000	788851	72.2			
23 p-Nitrotoluene										
4	137.0	8.922	8.770	0.152	1.000	669824	70.7			
24 m-Nitrotoluene										
4	137.0	9.590	9.438	0.152	1.000	411444	68.9			

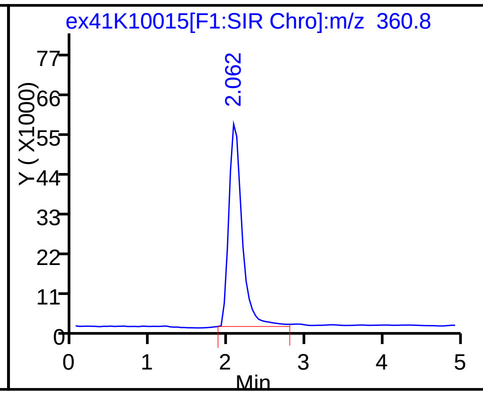
Report Date: 11-Nov-2011 06:40:19   Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\denchrom\ChromData\LC_LCMS4\20111110-2741.b\ex41K10015.d

Injection Date:	10-Nov-2011 12:49:16	Limit Group:	LC - 8321A Expl
Client ID:		Instrument ID:	LC_LCMS4
Lims Batch ID:	95629	Lims Sample ID:	13
Operator ID:		Injection Vol:	40.00 ul

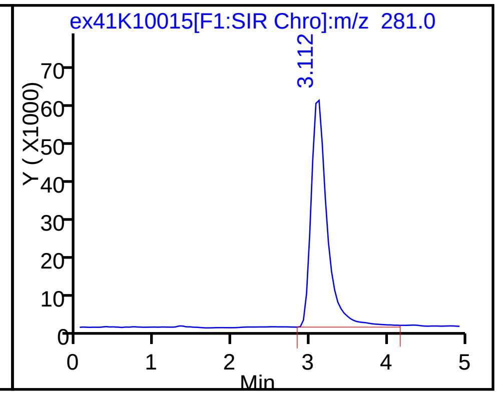
2 HMX



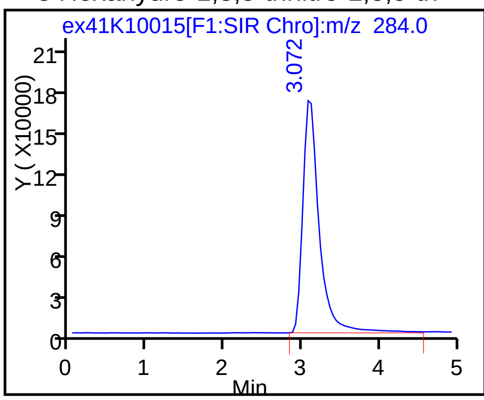
* 1 HMX-13C4



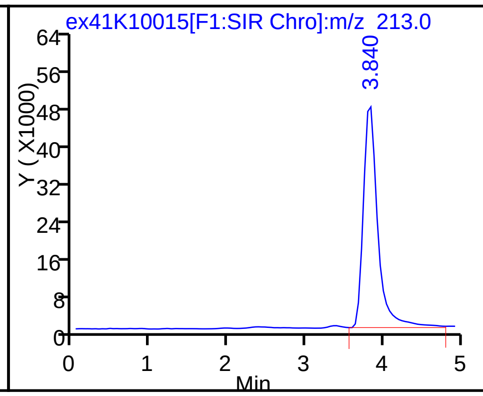
4 RDX



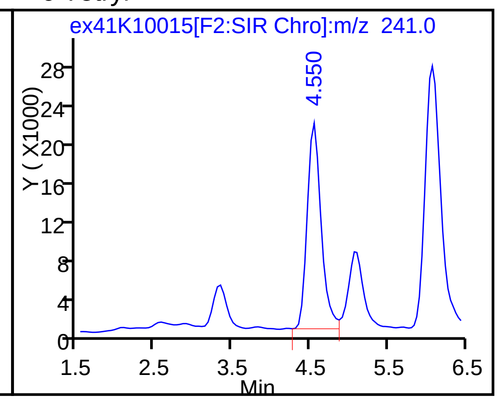
* 3 Hexahydro-1,3,5-trinitro-1,3,5-tri



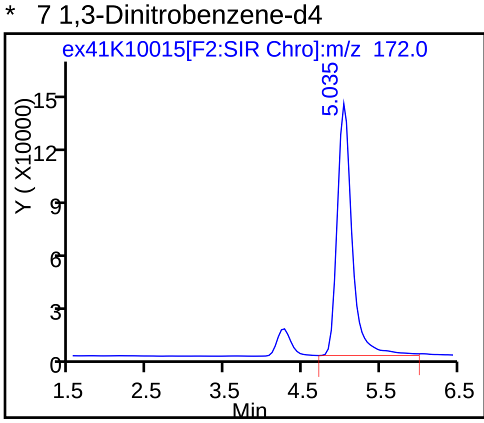
5 1,3,5-Trinitrobenzene



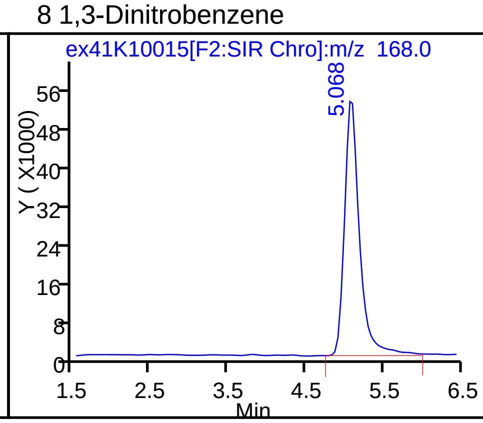
6 Tetryl



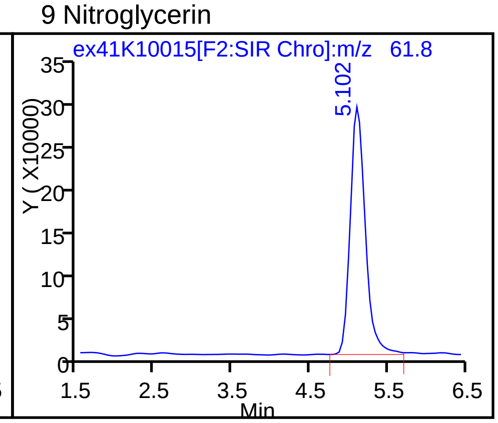
* 7 1,3-Dinitrobenzene-d4



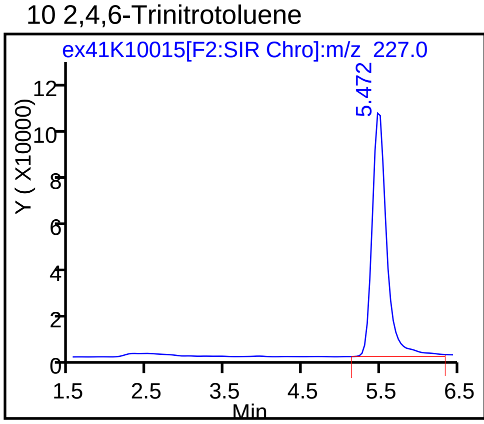
8 1,3-Dinitrobenzene



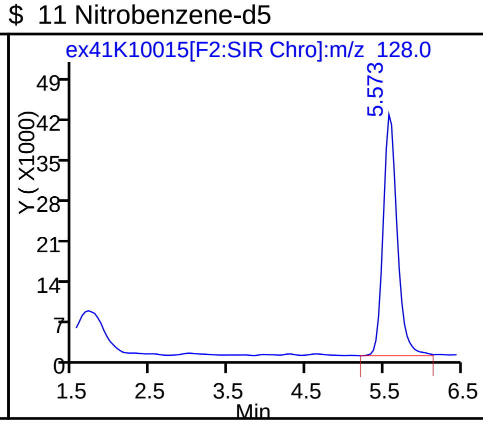
9 Nitroglycerin



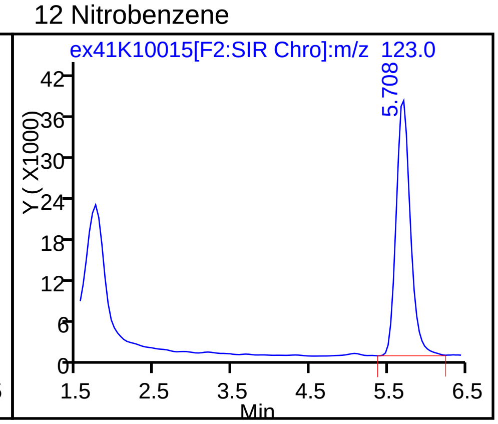
10 2,4,6-Trinitrotoluene



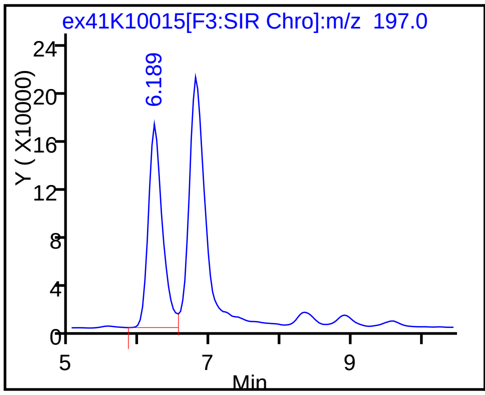
$ 11 Nitrobenzene-d5



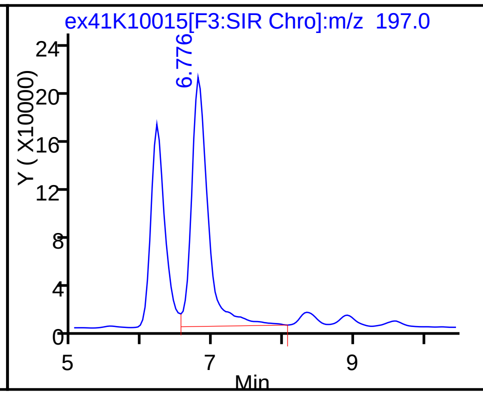
12 Nitrobenzene



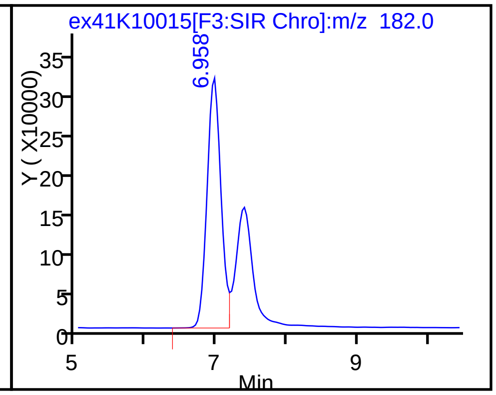
14 4-Amino-2,6-dinitrotoluene



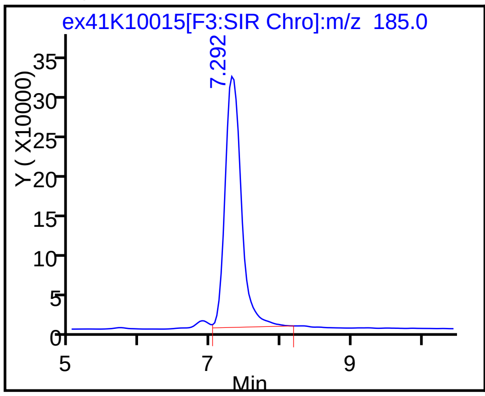
16 2-Amino-4,6-dinitrotoluene



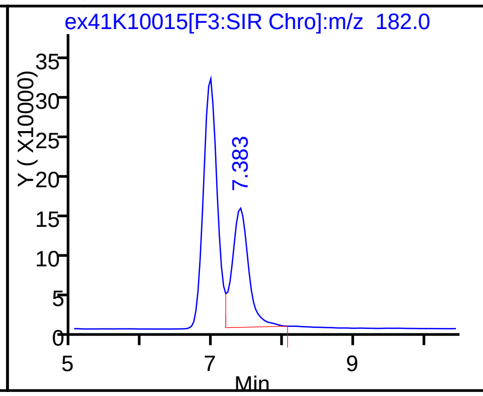
17 2,6-Dinitrotoluene



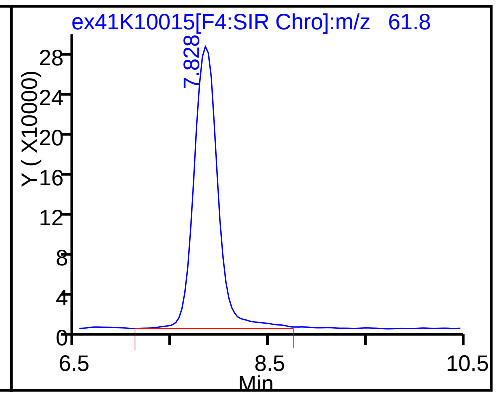
* 18 2,4-dinitrotoluene-d3



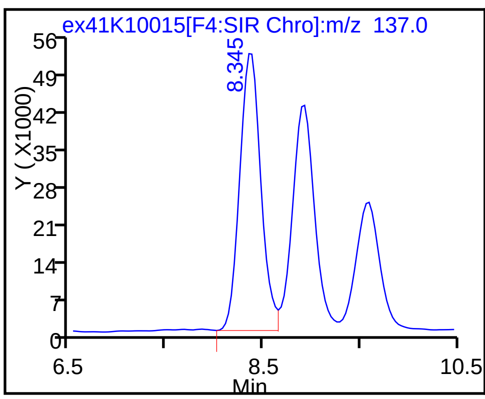
19 2,4-Dinitrotoluene



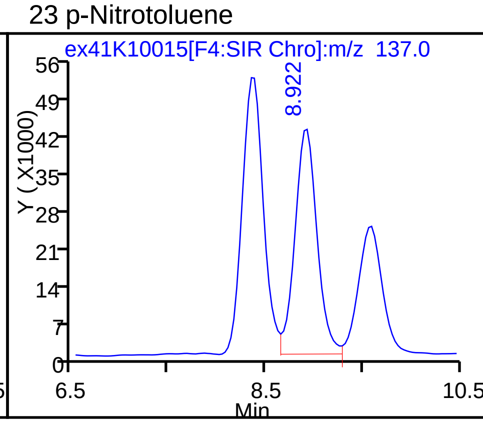
20 PETN



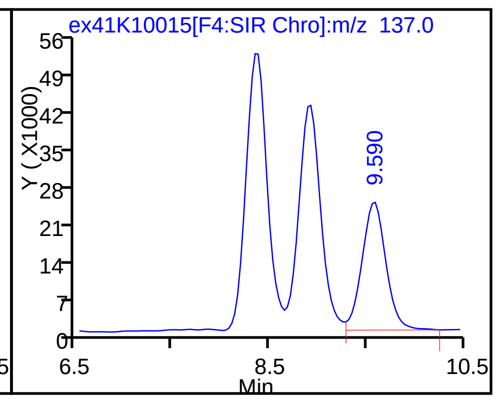
22 o-Nitrotoluene



23 p-Nitrotoluene



24 m-Nitrotoluene



LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Instrument ID: LC_LCMS4   Start Date: 11/10/2011 10:21

Analysis Batch Number: 95626   End Date: 11/10/2011 12:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD005 280-95626/1 IC		11/10/2011 10:21	1	ex41K10003.d	IonPac 2(mm)
STD010 280-95626/2 IC		11/10/2011 10:33	1	ex41K10004.d	IonPac 2(mm)
STD025 280-95626/3 IC		11/10/2011 10:45	1	ex41K10005.d	IonPac 2(mm)
STD050 280-95626/4 IC		11/10/2011 10:57	1	ex41K10006.d	IonPac 2(mm)
STD100 280-95626/5 ICISAV		11/10/2011 11:10	1	ex41K10007.d	IonPac 2(mm)
STD200 280-95626/6 IC		11/10/2011 11:22	1	ex41K10008.d	IonPac 2(mm)
STD300 280-95626/7 IC		11/10/2011 11:34	1	ex41K10009.d	IonPac 2(mm)
ICB 280-95626/8		11/10/2011 11:46	1	ex41K10010.d	IonPac 2(mm)
ZZZZZ		11/10/2011 11:58	1		IonPac 2(mm)
ICV 280-95626/10		11/10/2011 12:10	1	ex41K10012.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Instrument ID: LC_LCMS4 Start Date: 11/10/2011 12:24

Analysis Batch Number: 95629 End Date: 11/10/2011 15:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
MB 280-95077/1-A		11/10/2011 12:24	1	ex41K10013.d	IonPac 2(mm)
LCS 280-95077/2-A		11/10/2011 12:37	1	ex41K10014.d	IonPac 2(mm)
LCSD 280-95077/3-A		11/10/2011 12:49	1	ex41K10015.d	IonPac 2(mm)
ZZZZZ		11/10/2011 13:01	5		IonPac 2(mm)
ZZZZZ		11/10/2011 13:13	5		IonPac 2(mm)
ZZZZZ		11/10/2011 13:25	5		IonPac 2(mm)
ZZZZZ		11/10/2011 13:37	5		IonPac 2(mm)
ZZZZZ		11/10/2011 13:49	5		IonPac 2(mm)
CCV 280-95629/19		11/10/2011 14:01	1	ex41K10021.d	IonPac 2(mm)
ZZZZZ		11/10/2011 14:14	5		IonPac 2(mm)
ZZZZZ		11/10/2011 14:26	5		IonPac 2(mm)
ZZZZZ		11/10/2011 14:38	5		IonPac 2(mm)
280-22438-11 DL	MV01 IDW01 DL	11/10/2011 14:51	10	ex41K10025.d	IonPac 2(mm)
ZZZZZ		11/10/2011 15:03	5		IonPac 2(mm)
ZZZZZ		11/10/2011 15:15	10		IonPac 2(mm)
ZZZZZ		11/10/2011 15:27	10		IonPac 2(mm)
ZZZZZ		11/10/2011 15:39	5		IonPac 2(mm)
CCV 280-95629/28		11/10/2011 15:51	1	ex41K10030.d	IonPac 2(mm)

8321B

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Instrument ID: LC_LCMS4 Start Date: 11/10/2011 15:51

Analysis Batch Number: 95630 End Date: 11/10/2011 18:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-95630/28		11/10/2011 15:51	1		IonPac 2(mm)
ZZZZZ		11/10/2011 16:03	1		IonPac 2(mm)
ZZZZZ		11/10/2011 16:16	1		IonPac 2(mm)
ZZZZZ		11/10/2011 16:28	1		IonPac 2(mm)
ZZZZZ		11/10/2011 16:40	1		IonPac 2(mm)
ZZZZZ		11/10/2011 16:52	1		IonPac 2(mm)
ZZZZZ		11/10/2011 17:04	1		IonPac 2(mm)
CCV 280-95630/35		11/10/2011 17:16	1	ex41K10037.d	IonPac 2(mm)
ZZZZZ		11/10/2011 17:29	1		IonPac 2(mm)
ZZZZZ		11/10/2011 17:41	1		IonPac 2(mm)
280-22438-11	MV01 IDW01	11/10/2011 17:53	1	ex41K10040.d	IonPac 2(mm)
ZZZZZ		11/10/2011 18:05	1		IonPac 2(mm)
ZZZZZ		11/10/2011 18:17	1		IonPac 2(mm)
ZZZZZ		11/10/2011 18:29	1		IonPac 2(mm)
ZZZZZ		11/10/2011 18:41	1		IonPac 2(mm)
CCV 280-95630/43		11/10/2011 18:54	1	ex41K10045.d	IonPac 2(mm)

8321B

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Batch Number: 95077 Batch Start Date: 11/07/11 11:42 Batch Analyst: Smiley, Kristy

Batch Method: 3535 Batch End Date: 11/07/11 15:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	Initial pH	AdjustedpH
MB 280-95077/1		3535, 8321B				1000 mL	5 mL	7 SU	4 SU
LCS 280-95077/2		3535, 8321B				1000 mL	5 mL	7 SU	4 SU
LCSD 280-95077/3		3535, 8321B				1000 mL	5 mL	7 SU	4 SU
280-22438-B-11	MV01 IDW01	3535, 8321B	T	1513.49 g	498.03 g	1015.5 mL	5 mL	7 SU	4 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	8321ExplosLCS 00011	8321ExplosSur 00017				
MB 280-95077/1		3535, 8321B			0.125 mL				
LCS 280-95077/2		3535, 8321B		0.125 mL	0.125 mL				
LCSD 280-95077/3		3535, 8321B		0.125 mL	0.125 mL				
280-22438-B-11	MV01 IDW01	3535, 8321B	T		0.125 mL				

Batch Notes	
Acid Lot	2.L.1.10
Acid Name	6M HCl
Balance ID	24750836
First End time	11/7/11 @ 1543
H2O Lot used	K37E00
Pipette ID	s/s: KS Pip: I, Koko
Reagent ID	0.1% Acetic Acid
Reagent Lot Number	0.1% Acetic_00001
Solvent Lot #	K38813
Solvent Name	ACN
SOP Number	DV-OP-0017
SPE Cartridge Type	Strata SDB-L (8B-S014-HCH)
Solid Phase Extraction Disk Lot Number	S214-39/ -41
First Start time	11/7/11 @ 1142
Witness	Reviewer: Frey, A

Basis	Basis Description
T	Total/NA

8321B Page 1 of 1

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Denver

Job Number: 280-22438-2

SDG No.:

Project: Martha's Vineyard RI

Client Sample ID	Lab Sample ID
MV01 IDW01	280-22438-11

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MV01 IDW01

Lab Sample ID: 280-22438-11

Lab Name: TestAmerica Denver

Job No.: 280-22438-2

SDG ID.:

Matrix: Water

Date Sampled: 11/03/2011 09:00

Reporting Basis: WET

Date Received: 11/04/2011 09:30

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Antimony	0.51	6.0	0.20	0.070	ug/L	J	Q	1	6020A
Copper	5.2	2.0	1.5	0.56	ug/L			1	6020A
Lead	12	3.0	0.50	0.18	ug/L			1	6020A
Nickel	15	3.0	0.90	0.30	ug/L			1	6020A
Zinc	96	20	6.0	2.0	ug/L		J	1	6020A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

ICV Source: MS ICV_00453 Concentration Units: ug/L

CCV Source: MS CCV_00454

Analyte	ICV 280-95431/4 11/08/2011 19:06				CCV 280-95431/14 11/08/2011 19:35				CCV 280-95431/26 11/09/2011 01:11			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	39.6		40.0	99	49.6		50.0	99	49.2		50.0	98
Copper	39.5		40.0	99	48.6		50.0	97	48.9		50.0	98
Lead	41.7		40.0	104	50.5		50.0	101	49.3		50.0	99
Nickel	40.9		40.0	102	50.0		50.0	100	49.8		50.0	100
Zinc	40.2		40.0	100	49.7		50.0	99	49.3		50.0	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

ICV Source: MS ICV_00453   Concentration Units: ug/L

CCV Source: MS CCV_00454

Analyte	CCV 280-95431/36 11/09/2011 01:40				CCV 280-95431/47 11/09/2011 02:12				CCV 280-95431/56 11/09/2011 02:38			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	49.0		50.0	98	48.3		50.0	97	48.3		50.0	97
Copper	49.4		50.0	99	50.1		50.0	100	51.3		50.0	103
Lead	49.1		50.0	98	49.6		50.0	99	49.6		50.0	99
Nickel	49.2		50.0	98	49.5		50.0	99	49.6		50.0	99
Zinc	48.9		50.0	98	49.7		50.0	99	49.7		50.0	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

ICV Source: MS LCCV dly_00453   Concentration Units: ug/L

CCV Source: MS LCCV dly_00453

Analyte	ICVL 280-95431/5 11/08/2011 19:09				CCVL 280-95431/16 11/08/2011 19:41				CCVL 280-95431/28 11/09/2011 01:17			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.25		2.00	113	2.11		2.00	105	2.12		2.00	106
Copper	2.18		2.00	109	2.23		2.00	112	2.17		2.00	109
Lead	1.10		1.00	110	1.11		1.00	111	1.11		1.00	111
Nickel	2.26		2.00	113	2.31		2.00	115	2.24		2.00	112
Zinc	10.7		10.0	107	10.6		10.0	106	10.4		10.0	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

ICV Source: MS LCCV dly_00453 Concentration Units: ug/L

CCV Source: MS LCCV dly_00453

Analyte	CCVL 280-95431/38 11/09/2011 01:46				CCVL 280-95431/49 11/09/2011 02:18				CCVL 280-95431/58 11/09/2011 02:44			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	2.12		2.00	106	2.04		2.00	102	2.05		2.00	103
Copper	2.18		2.00	109	2.22		2.00	111	2.23		2.00	111
Lead	1.09		1.00	109	1.10		1.00	110	1.09		1.00	109
Nickel	2.27		2.00	114	2.29		2.00	114	2.26		2.00	113
Zinc	10.4		10.0	104	10.6		10.0	106	10.6		10.0	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Method: 6020A   Instrument ID: MT_024

Lab Sample ID: CRI 280-95431/7   Concentration Units: ug/L

CRQL Check Standard Source: MS RL STD_00464

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	1.00	0.998	J	100	80-120
Copper	1.00	0.984	J	98	80-120
Lead	1.00	0.984	J	98	80-120
Nickel	1.00	0.991	J	99	80-120
Zinc	10.0	10.1		101	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 280-95431/6 11/08/2011 19:12		CCB 280-95431/15 11/08/2011 19:38		CCB 280-95431/27 11/09/2011 01:14		CCB 280-95431/37 11/09/2011 01:43	
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U	0.20	U	0.20	U
Copper	2.0	1.5	U	1.5	U	1.5	U	1.5	U
Lead	1.0	0.50	U	0.50	U	0.50	U	0.50	U
Nickel	2.0	0.90	U	0.90	U	0.90	U	0.90	U
Zinc	10	6.0	U	6.0	U	6.0	U	6.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 280-95431/48 11/09/2011 02:15		CCB 280-95431/57 11/09/2011 02:41					
		Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.20	U	0.20	U				
Copper	2.0	1.5	U	1.5	U				
Lead	1.0	0.50	U	0.50	U				
Nickel	2.0	0.90	U	0.90	U				
Zinc	10	6.0	U	6.0	U				

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Concentration Units: ug/L   Lab Sample ID: MB 280-94961/1-A

Instrument Code: MT_024   Batch No.: 95431

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.20	U	Q	6020A
7440-50-8	Copper	1.5	U		6020A
7439-92-1	Lead	0.50	U		6020A
7440-02-0	Nickel	0.90	U		6020A
7440-66-6	Zinc	6.0	U		6020A

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Lab Sample ID: ICSA 280-95431/9 Instrument ID: MT_024

Lab File ID: 010ICSA.D ICS Source: MS ICSA_00452

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.291**	
Copper		**0.335**	
Lead		**0.135**	
Nickel		**0.778**	
Zinc		**2.67**	
Arsenic		*0.513*	
Barium		*0.195*	
Beryllium		*0.0005*	
Cadmium		*0.557*	
Chromium		*1.10*	
Co		*0.0523*	
Manganese		*0.468*	
Molybdenum	*2000*	*2031*	*102*
Selenium		*0.263*	
Silver		*0.0633*	
Thallium		*0.0257*	
Tin		*0.124*	
Uranium		*0.0014*	
Vanadium		*0.203*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Lab Sample ID: ICSAB 280-95431/10   Instrument ID: MT_024

Lab File ID: 011ICSB.D   ICS Source: MS ICSAB_00455

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Antimony	**100**	**106**	**106**
Copper	**100**	**90.8**	**91**
Lead	**100**	**95.9**	**96**
Nickel	**100**	**93.2**	**93**
Zinc	**100**	**99.2**	**99**
Arsenic	*100*	*105*	*105*
Barium	*100*	*105*	*105*
Beryllium	*100*	*100*	*100*
Cadmium	*100*	*98.4*	*98*
Chromium	*100*	*99.8*	*100*
Co	*100*	*96.0*	*96*
Manganese	*100*	*100*	*100*
Molybdenum	*2100*	*2161*	*103*
Selenium	*100*	*110*	*110*
Silver	*100*	*90.4*	*90*
Thallium	*100*	*96.2*	*96*
Tin	*100*	*97.7*	*98*
Uranium	*100*	*102*	*102*
Vanadium	*100*	*103*	*103*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MV01 IDW01 MS | Lab ID: 280-22438-11 MS

Lab Name: TestAmerica Denver | Job No.: 280-22438-2

SDG No.:

Matrix: Water | Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	34.6		0.51	J	40.0	85	85-115	Q	6020A
Copper	43.3		5.2		40.0	95	85-119		6020A
Lead	51.0		12		40.0	97	85-118		6020A
Nickel	54.0		15		40.0	98	85-119		6020A
Zinc	130		96		40.0	87	83-122		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MV01 IDW01 MSD   Lab ID: 280-22438-11 MSD

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Matrix: Water   Concentration Units: ug/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	35.3		40.0	87	85-115	2	20	Q	6020A
Copper	43.6		40.0	96	85-119	1	20		6020A
Lead	51.7		40.0	98	85-118	1	20		6020A
Nickel	54.2		40.0	98	85-119	0	20		6020A
Zinc	153		40.0	143	83-122	16	20	J	6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: MV01 IDW01 PDS | Lab ID: 280-22438-11 PDS

Lab Name: TestAmerica Denver | Job No.: 280-22438-2

SDG No.:

Matrix: Water | Concentration Units: ug/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	198		0.51	J	200	99	75-125	Q	6020A
Copper	201		5.2		200	98	75-125		6020A
Lead	203		12		200	95	75-125		6020A
Nickel	221		15		200	103	75-125		6020A
Zinc	297		96		200	101	75-125		6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 280-94961/2-A

Lab Name: TestAmerica Denver Job No.: 280-22438-2

Sample Matrix: Water LCS Source: MS CALSTD-2_00053

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	40.0	39.6		99	85	115	Q	6020A
Copper	40.0	40.4		101	85	119		6020A
Lead	40.0	40.9		102	85	118		6020A
Nickel	40.0	41.1		103	85	119		6020A
Zinc	40.0	39.9		100	83	122		6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 280-22438-11

SDG No:

Lab Name: TestAmerica Denver   Job No: 280-22438-2

Matrix: Water   Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.51	J	0.555	J	NC	D Q	6020A
Copper	5.2		5.20	J	NC	D	6020A
Lead	12		12.3	J	0.61	D	6020A
Nickel	15		14.5	J	NC	D	6020A
Zinc	96		105		NC	D	6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-22438-2

SDG Number:

Matrix: Water Instrument ID: MT_024

Method: 6020A DL Date: 06/20/2011 12:07

Prep Method: 3020A

Analyte	Wavelength/ Mass	LOQ (ug/L)	DL (ug/L)
Antimony	121	6	0.07
Copper	63	2	0.56
Lead	208	3	0.18
Nickel	60	3	0.3
Zinc	66	20	2

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Denver Job Number: 280-22438-2

SDG Number:

Matrix: Water Instrument ID: MT_024

Method: 6020A XMDL Date: 06/20/2011 12:44

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony		2	0.07
Copper		2	0.56
Lead		1	0.18
Nickel		2	0.3
Zinc		10	2

FORM IX - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Denver Job No: 280-22438-2

SDG No.:

Instrument ID: MT_024 Date: 10/10/2011 16:29

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Antimony		4000	6020A
Copper		4000	6020A
Lead		4000	6020A
Nickel		4000	6020A
Zinc		4000	6020A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Prep Method: 3020A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 280-94961/1-A	11/08/2011 05:15	94961		50	50
LCS 280-94961/2-A	11/08/2011 05:15	94961		50	50
280-22438-11	11/08/2011 05:15	94961		50	50
280-22438-11 MS	11/08/2011 05:15	94961		50	50
280-22438-11 MSD	11/08/2011 05:15	94961		50	50

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

Instrument ID: MT_024   Method: 6020A

Start Date: 11/08/2011 18:55   End Date: 11/09/2011 04:11

Lab Sample ID	D/F	Type	Time	Cu	Ni	Pb	Sb	Zn
ITUNE 280-95431/1			18:55					
IC 280-95431/2	1		19:01	X	X	X	X	X
IC 280-95431/3	1		19:04	X	X	X	X	X
ICV 280-95431/4	1		19:06	X	X	X	X	X
ICVL 280-95431/5	1		19:09	X	X	X	X	X
ICB 280-95431/6	1		19:12	X	X	X	X	X
CRI 280-95431/7	1		19:15	X	X	X	X	X
ZZZZZZ			19:18					
ICSA 280-95431/9	1		19:21	X	X	X	X	X
ICSAB 280-95431/10	1		19:24	X	X	X	X	X
RINSE 280-95431/11			19:27					
LRA 280-95431/12			19:30					
RINSE 280-95431/13			19:32					
CCV 280-95431/14	1		19:35	X	X	X	X	X
CCB 280-95431/15	1		19:38	X	X	X	X	X
CCVL 280-95431/16	1		19:41	X	X	X	X	X
CCV 280-95431/17			00:45					
CCB 280-95431/18			00:48					
ZZZZZZ			00:51					
ZZZZZZ			00:54					
ZZZZZZ			00:57					
ZZZZZZ			01:00					
ZZZZZZ			01:03					
ZZZZZZ			01:06					
ZZZZZZ			01:09					
CCV 280-95431/26	1		01:11	X	X	X	X	X
CCB 280-95431/27	1		01:14	X	X	X	X	X
CCVL 280-95431/28	1		01:17	X	X	X	X	X
MB 280-94961/1-A	1	T	01:20	X	X	X	X	X
LCS 280-94961/2-A	1	T	01:23	X	X	X	X	X
ZZZZZZ			01:26					
ZZZZZZ			01:29					
ZZZZZZ			01:32					
ZZZZZZ			01:34					
ZZZZZZ			01:37					
CCV 280-95431/36	1		01:40	X	X	X	X	X
CCB 280-95431/37	1		01:43	X	X	X	X	X
CCVL 280-95431/38	1		01:46	X	X	X	X	X
RINSE 280-95431/39			01:49					
RINSE 280-95431/40			01:52					
RINSE 280-95431/41			01:55					
RINSE 280-95431/42			01:58					

ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver　　Job No.: 280-22438-2

SDG No.:

Instrument ID: MT_024　　Method: 6020A

Start Date: 11/08/2011 18:55　　End Date: 11/09/2011 04:11

Lab Sample ID	D/F	Type	Time	Analytes: Cu	Ni	Pb	Sb	Zn
RINSE 280-95431/43			02:01					
ZZZZZZ			02:03					
IC 280-95431/45	1		02:06	X	X	X	X	X
IC 280-95431/46	1		02:09	X	X	X	X	X
CCV 280-95431/47	1		02:12	X	X	X	X	X
CCB 280-95431/48	1		02:15	X	X	X	X	X
CCVL 280-95431/49	1		02:18	X	X	X	X	X
ZZZZZZ			02:21					
280-22438-11	1	T	02:24	X	X	X	X	X
280-22438-11 SD	5	T	02:27	X	X	X	X	X
280-22438-11 PDS	1	T	02:30	X	X	X	X	X
280-22438-11 MS	1	T	02:32	X	X	X	X	X
280-22438-11 MSD	1	T	02:35	X	X	X	X	X
CCV 280-95431/56	1		02:38	X	X	X	X	X
CCB 280-95431/57	1		02:41	X	X	X	X	X
CCVL 280-95431/58	1		02:44	X	X	X	X	X
ZZZZZZ			02:47					
ZZZZZZ			02:50					
ZZZZZZ			02:53					
ZZZZZZ			02:56					
ZZZZZZ			02:58					
ZZZZZZ			03:01					
ZZZZZZ			03:04					
ZZZZZZ			03:07					
CCV 280-95431/67			03:10					
CCB 280-95431/68			03:13					
ZZZZZZ			03:16					
ZZZZZZ			03:19					
ZZZZZZ			03:22					
ZZZZZZ			03:25					
ZZZZZZ			03:28					
ZZZZZZ			03:31					
ZZZZZZ			03:33					
ZZZZZZ			03:36					
CCV 280-95431/77			03:39					
CCB 280-95431/78			03:42					
ZZZZZZ			03:45					
ZZZZZZ			03:48					
ZZZZZZ			03:51					
ZZZZZZ			03:54					
ZZZZZZ			03:57					
ZZZZZZ			04:00					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Instrument ID: MT_024 Method: 6020A

Start Date: 11/08/2011 18:55 End Date: 11/09/2011 04:11

Lab Sample ID	D/F	Type	Time	Analytes																				
				Cu	Ni	Pb	Sb	Zn																
ZZZZZZ			04:03																					
ZZZZZZ			04:06																					
CCV 280-95431/87			04:09																					
CCB 280-95431/88			04:11																					

Prep Types

T = Total/NA

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

ICP-MS Instrument ID: MT_024 Analysis Date: 11/08/11

Lab ID: ITUNE 280-95431/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-7	7.00	0.65	1.15	
Be-9	8.95	0.60	1.83	
Mg-24	24.00	0.65	1.27	
Co-59	59.00	0.60	0.77	
In-115	115.05	0.60	0.96	
Pb-208	208.00	0.55	0.49	
U-238	238.00	0.55	1.03	

FORM XIV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Denver   Job No.: 280-22438-2

SDG No.:

ICP-MS Instrument ID: MT_024   Start Date: 11/08/2011 End Date: 11/09/2011

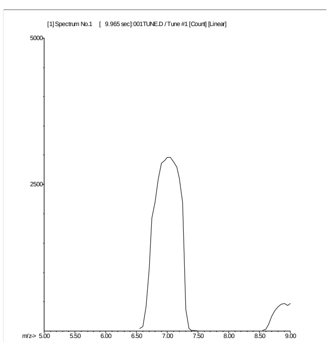
Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element In	Q	Element Ho-165	Q
IC 280-95431/2	19:01	100		100		100		100		100	
IC 280-95431/3	19:04	101		100		101		102		101	
ICV 280-95431/4	19:06	100		100		100		100		99	
ICVL 280-95431/5	19:09	99		101		101		102		101	
ICB 280-95431/6	19:12	100		102		102		102		102	
CRI 280-95431/7	19:15	100		102		102		102		102	
ICSA 280-95431/9	19:21	90		87		87		85		89	
ICSAB 280-95431/10	19:24	91		85		85		85		89	
CCV 280-95431/14	19:35	96		99		100		101		100	
CCB 280-95431/15	19:38	98		99		102		101		101	
CCVL 280-95431/16	19:41	100		100		101		102		102	
CCV 280-95431/26	01:11	92		102		104		104		100	
CCB 280-95431/27	01:14	93		102		104		104		100	
CCVL 280-95431/28	01:17	92		103		105		105		99	
MB 280-94961/1-A	01:20	95		106		106		107		102	
LCS 280-94961/2-A	01:23	95		104		104		106		101	
CCV 280-95431/36	01:40	94		103		106		106		102	
CCB 280-95431/37	01:43	94		105		107		106		100	
CCVL 280-95431/38	01:46	95		104		107		106		102	
IC 280-95431/45	02:06	100		100		100		100		100	
IC 280-95431/46	02:09	99		99		99		100		100	
CCV 280-95431/47	02:12	98		99		99		99		101	
CCB 280-95431/48	02:15	99		99		99		100		99	
CCVL 280-95431/49	02:18	98		98		98		100		100	
280-22438-11	02:24	100		100		97		97		100	
280-22438-11 SD	02:27	101		101		101		101		102	
280-22438-11 PDS	02:30	98		99		96		97		101	
280-22438-11 MS	02:32	100		100		97		98		100	
280-22438-11 MSD	02:35	98		99		98		97		101	
CCV 280-95431/56	02:38	99		100		100		101		101	
CCB 280-95431/57	02:41	101		102		102		102		101	
CCVL 280-95431/58	02:44	101		101		101		101		102	

FORM XV - IN

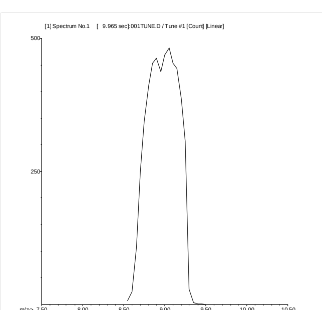
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\001TUNE.D
Date Acquired: Nov 8 2011 06:55 pm
Acq. Method: tun_isis.M
Operator: LRD
Sample Name: ITUNE-1109063
Misc Info:
Vial Number: 4
Current Method: C:\ICPCHEM\1\METHODS\tun_isis.M

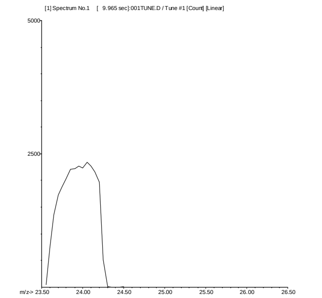
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
7 Li	30877	30494	30853	31133	31326	30580	**1.15**	5.00	
9 Be	5064	5072	5042	4928	5095	5184	**1.83**	5.00	
24 Mg	25982	25497	26170	25779	26260	26203	**1.27**	5.00	
59 Co	202515	201270	201238	201670	204410	203988	**0.77**	5.00	
115 In	2363324	2340149	2376232	2394274	2343161	2362807	**0.96**	5.00	
208 Pb	171594	171922	172722	170468	171672	171186	**0.49**	5.00	
238 U	312736	314914	314036	316112	309672	308944	**1.03**	5.00	



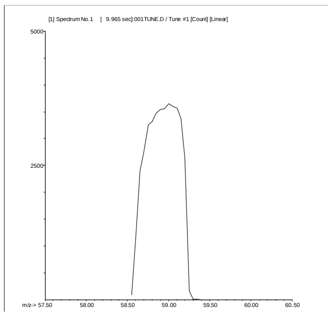
7 Li
Mass Calib.
Actual: 7.00
Required:6.90 - 7.10
Flag:
Peak Width
Actual: 0.65
Required:0.90
Flag:



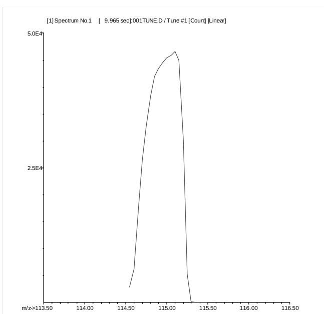
9 Be
Mass Calib.
Actual: 8.95
Required:8.90 - 9.10
Flag:
Peak Width
Actual: 0.60
Required:0.90
Flag:



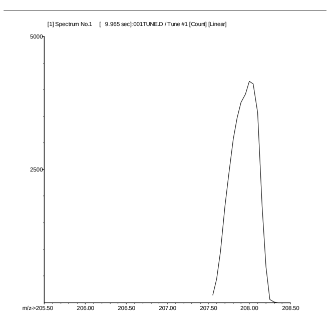
24 Mg
Mass Calib.
Actual: 24.00
Required:23.90 - 24.10
Flag:
Peak Width
Actual: 0.65
Required:0.90
Flag:



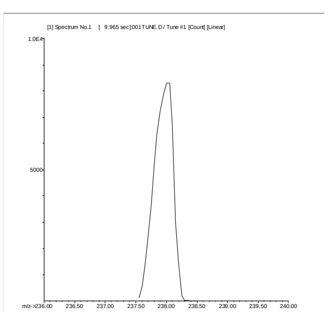
59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



208 Pb
Mass Calib.
Actual: 208.00
Required: 207.90 - 208.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



238 U
Mass Calib.
Actual: 238.00
Required: 237.90 - 238.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:

Tune Result: Pass

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#
Date Acquired:	Nov 8 2011 07:01 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1118467
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 06:59 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	3	173.21
51	V	72	1	120	627.47
52	Cr	72	1	7672	6.53
55	Mn	72	1	1040	2.54
59	Co	72	1	127	12.06
60	Ni	72	1	487	5.17
63	Cu	72	1	1170	17.45
66	Zn	72	1	418	2.09
75	As	72	1	91	3.37
78	Se	72	1	283	5.39
95	Mo	72	1	93	6.19
107	Ag	115	1	27	21.65
111	Cd	115	1	29	24.13
118	Sn	115	1	677	17.13
121	Sb	115	1	27	12.50
137	Ba	115	1	50	17.64
205	Tl	165	1	142	21.78
208	Pb	165	1	692	5.79
232	Th	165	1	130	20.35
238	U	165	1	79	12.91

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	534602	0.91
45	Sc	1	2551677	1.92
72	Ge	1	1553005	0.65
115	In	1	4260602	1.11
165	Ho	1	8806612	1.74

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\004ICAL.D\004ICAL.D#
Date Acquired:	Nov 8 2011 07:04 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1118450
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:02 pm
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	83260	0.87
51	V	72	1	2234696	2.06
52	Cr	72	1	2410353	1.53
55	Mn	72	1	2030584	1.30
59	Co	72	1	3275476	1.14
60	Ni	72	1	788254	0.92
63	Cu	72	1	2009116	0.96
66	Zn	72	1	357292	0.63
75	As	72	1	244869	0.35
78	Se	72	1	32731	2.33
95	Mo	72	1	918810	0.81
107	Ag	115	1	2842797	1.28
111	Cd	115	1	472644	0.51
118	Sn	115	1	1227720	0.63
121	Sb	115	1	1379185	0.36
137	Ba	115	1	530012	0.30
205	Tl	165	1	5016161	0.28
208	Pb	165	1	6984848	0.76
232	Th	165	1	6855643	1.42
238	U	165	1	7484493	0.84

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539952	0.57	534602	101.0	30 - 120	
45	Sc	1	2551001	1.35	2551677	100.0	30 - 120	
72	Ge	1	1567905	0.68	1553005	101.0	30 - 120	
115	In	1	4325443	1.91	4260602	101.5	30 - 120	
165	Ho	1	8886135	0.27	8806612	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Initial Calibration Verification (ICV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\005_ICV.D\005_ICV.D#
Date Acquired:	Nov 8 2011 07:06 pm
Operator:	LRD
Sample Name:	ICV-1118451
Misc Info:	
Vial Number:	2103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	ICV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	40.01	ppb	0.75	40	100.0	90 - 110	
51	V	72	1	40.21	ppb	2.67	40	100.5	90 - 110	
52	Cr	72	1	40.93	ppb	3.29	40	102.3	90 - 110	
55	Mn	72	1	40.82	ppb	1.89	40	102.1	90 - 110	
59	Co	72	1	40.80	ppb	1.34	40	102.0	90 - 110	
60	Ni	72	1	40.94	ppb	2.20	40	102.4	90 - 110	
63	Cu	72	1	39.54	ppb	2.72	40	98.9	90 - 110	
66	Zn	72	1	40.19	ppb	2.23	40	100.5	90 - 110	
75	As	72	1	41.71	ppb	1.45	40	104.3	90 - 110	
78	Se	72	1	42.32	ppb	4.51	40	105.8	90 - 110	
95	Mo	72	1	40.46	ppb	2.27	40	101.2	90 - 110	
107	Ag	115	1	40.78	ppb	0.74	40	102.0	90 - 110	
111	Cd	115	1	41.00	ppb	0.45	40	102.5	90 - 110	
118	Sn	115	1	39.46	ppb	1.08	40	98.7	90 - 110	
121	Sb	115	1	39.57	ppb	1.40	40	98.9	90 - 110	
137	Ba	115	1	40.77	ppb	1.58	40	101.9	90 - 110	
205	Tl	165	1	41.40	ppb	1.67	40	103.5	90 - 110	
208	Pb	165	1	41.66	ppb	1.35	40	104.2	90 - 110	
232	Th	165	1	42.39	ppb	1.77	40	106.0	90 - 110	
238	U	165	1	40.53	ppb	0.99	40	101.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532514	0.82	534602	99.6	30 - 120	
45	Sc	1	2562342	0.33	2551677	100.4	30 - 120	
72	Ge	1	1559886	1.81	1553005	100.4	30 - 120	
115	In	1	4281456	0.42	4260602	100.5	30 - 120	
165	Ho	1	8747750	1.01	8806612	99.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\006WASH.D\006WASH.D#
Date Acquired: Nov 8 2011 07:09 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.097 ppb	16.98	1.30	
51	V	72	1	5.011 ppb	2.83	6.50	
52	Cr	72	1	2.215 ppb	1.70	2.60	
55	Mn	72	1	1.206 ppb	0.57	1.30	
59	Co	72	1	1.098 ppb	0.87	1.30	
60	Ni	72	1	2.255 ppb	4.41	2.60	
63	Cu	72	1	2.179 ppb	2.67	2.60	
66	Zn	72	1	10.680 ppb	0.44	13.00	
75	As	72	1	5.293 ppb	3.46	6.50	
78	Se	72	1	5.442 ppb	9.32	6.50	
95	Mo	72	1	2.184 ppb	3.08	2.60	
107	Ag	115	1	5.106 ppb	1.05	6.50	
111	Cd	115	1	1.075 ppb	3.96	1.30	
118	Sn	115	1	9.854 ppb	0.71	13.00	
121	Sb	115	1	2.251 ppb	1.39	2.60	
137	Ba	115	1	1.143 ppb	2.21	1.30	
205	Tl	165	1	1.189 ppb	0.58	1.30	
208	Pb	165	1	1.103 ppb	1.64	1.30	
232	Th	165	1	2.129 ppb	1.56	2.60	
238	U	165	1	1.099 ppb	0.52	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	531363	1.47	534602	99.4	30 - 120	
45	Sc	1	2576934	0.44	2551677	101.0	30 - 120	
72	Ge	1	1574866	0.50	1553005	101.4	30 - 120	
115	In	1	4325243	0.73	4260602	101.5	30 - 120	
165	Ho	1	8919802	1.24	8806612	101.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\007_ICB.D\007_ICB.D#
Date Acquired: Nov 8 2011 07:12 pm
Operator: LRD
Sample Name: ICB-1118467
Misc Info:
Vial Number: 2104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: ICB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.01	ppb	2.49	1.00	
51	V	72	1	0.02	ppb	102.54	1.00	
52	Cr	72	1	0.00	ppb	113280.00	1.00	
55	Mn	72	1	0.05	ppb	21.16	1.00	
59	Co	72	1	0.00	ppb	8.06	1.00	
60	Ni	72	1	-0.01	ppb	70.37	1.00	
63	Cu	72	1	0.00	ppb	204.17	1.00	
66	Zn	72	1	0.04	ppb	16.66	1.00	
75	As	72	1	0.01	ppb	42.67	1.00	
78	Se	72	1	0.07	ppb	60.69	1.00	
95	Mo	72	1	0.02	ppb	142.68	1.00	
107	Ag	115	1	0.00	ppb	25.28	1.00	
111	Cd	115	1	0.00	ppb	169.56	1.00	
118	Sn	115	1	0.02	ppb	16.28	1.00	
121	Sb	115	1	0.05	ppb	15.53	1.00	
137	Ba	115	1	0.00	ppb	82.92	1.00	
205	Tl	165	1	0.02	ppb	7.30	1.00	
208	Pb	165	1	0.00	ppb	64.30	1.00	
232	Th	165	1	0.02	ppb	16.23	1.00	
238	U	165	1	0.00	ppb	17.42	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	534402	1.69	534602	100.0	30 - 120	
45	Sc	1	2596581	0.57	2551677	101.8	30 - 120	
72	Ge	1	1583967	0.47	1553005	102.0	30 - 120	
115	In	1	4332363	0.61	4260602	101.7	30 - 120	
165	Ho	1	8942333	1.35	8806612	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

RL STD QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\008RLST.D\008RLST.D#
Date Acquired:	Nov 8 2011 07:15 pm
Operator:	LRD
Sample Name:	CRI-1118452
Misc Info:	
Vial Number:	2105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	RLSTD
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1.09	ppb	18.52	1	108.8	80 - 120	
51	V	72	1	0.97	ppb	1.01	1	96.6	80 - 120	
52	Cr	72	1	0.96	ppb	1.62	1	95.6	80 - 120	
55	Mn	72	1	0.97	ppb	3.69	1	97.2	80 - 120	
59	Co	72	1	0.98	ppb	2.87	1	97.9	80 - 120	
60	Ni	72	1	0.99	ppb	2.82	1	99.1	80 - 120	
63	Cu	72	1	0.98	ppb	1.28	1	98.4	80 - 120	
66	Zn	72	1	10.08	ppb	2.06	10	100.8	80 - 120	
75	As	72	1	1.00	ppb	2.94	1	99.5	80 - 120	
78	Se	72	1	1.14	ppb	11.63	1	113.5	80 - 120	
95	Mo	72	1	0.95	ppb	3.70	1	95.3	80 - 120	
107	Ag	115	1	1.00	ppb	1.01	1	99.9	80 - 120	
111	Cd	115	1	0.95	ppb	1.40	1	95.4	80 - 120	
118	Sn	115	1	9.64	ppb	2.03	10	96.4	80 - 120	
121	Sb	115	1	1.00	ppb	1.94	1	99.8	80 - 120	
137	Ba	115	1	1.02	ppb	3.08	1	101.6	80 - 120	
205	Tl	165	1	1.00	ppb	0.54	1	100.2	80 - 120	
208	Pb	165	1	0.98	ppb	1.16	1	98.4	80 - 120	
232	Th	165	1	0.97	ppb	2.68	1	96.8	80 - 120	
238	U	165	1	1.00	ppb	2.10	1	99.9	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532464	1.10	534602	99.6	30 - 120	
45	Sc	1	2602954	0.64	2551677	102.0	30 - 120	
72	Ge	1	1582307	1.91	1553005	101.9	30 - 120	
115	In	1	4357284	0.24	4260602	102.3	30 - 120	
165	Ho	1	8965359	0.81	8806612	101.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

AFCEE RL QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\009AFCE.D\009AFCE.D#
Date Acquired:	Nov 8 2011 07:18 pm
Operator:	LRD
Sample Name:	AFCEE RL-1118455
Misc Info:	
Vial Number:	2106
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	AFCEERL
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	0.27	ppb	17.70	0	126.1	80 - 120	
51	V	72	1	0.19	ppb	9.27	0	98.2	80 - 120	
52	Cr	72	1	0.18	ppb	3.11	0	95.2	80 - 120	
55	Mn	72	1	0.19	ppb	8.42	0	99.6	80 - 120	
59	Co	72	1	0.20	ppb	0.60	0	100.3	80 - 120	
60	Ni	72	1	0.16	ppb	6.72	0	79.1	80 - 120	
63	Cu	72	1	0.17	ppb	3.96	0	88.3	80 - 120	
66	Zn	72	1	1.99	ppb	1.51	2	98.6	80 - 120	
75	As	72	1	0.19	ppb	14.78	0	95.5	80 - 120	
78	Se	72	1	0.27	ppb	43.08	0	120.0	80 - 120	
95	Mo	72	1	0.21	ppb	6.65	0	108.6	80 - 120	
107	Ag	115	1	0.19	ppb	4.29	0	96.6	80 - 120	
111	Cd	115	1	0.21	ppb	4.37	0	108.3	80 - 120	
118	Sn	115	1	1.86	ppb	1.48	2	96.4	80 - 120	
121	Sb	115	1	0.21	ppb	5.24	0	103.9	80 - 120	
137	Ba	115	1	0.20	ppb	2.61	0	100.4	80 - 120	
205	Tl	165	1	0.20	ppb	2.46	0	100.0	80 - 120	
208	Pb	165	1	0.19	ppb	1.02	0	98.2	80 - 120	
232	Th	165	1	0.19	ppb	5.11	0	98.8	80 - 120	
238	U	165	1	0.19	ppb	2.92	0	96.2	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	536157	0.82	534602	100.3	30 - 120	
45	Sc	1	2581722	2.05	2551677	101.2	30 - 120	
72	Ge	1	1592167	1.23	1553005	102.5	30 - 120	
115	In	1	4366673	0.32	4260602	102.5	30 - 120	
165	Ho	1	9003794	1.24	8806612	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\010ICSA.D\010ICSA.D#
Date Acquired:	Nov 8 2011 07:21 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	ICSA-1118457
Misc Info:	
Vial Number:	2108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	ICSA
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
9	Be	6	1	0.00 ppb	1642.20	1.00	
51	V	72	1	0.20 ppb	21.60	1.00	
52	Cr	72	1	1.10 ppb	2.99	1.00	
55	Mn	72	1	0.47 ppb	2.52	1.00	
59	Co	72	1	0.05 ppb	4.60	1.00	
60	Ni	72	1	0.78 ppb	1.98	1.00	
63	Cu	72	1	0.33 ppb	5.27	1.00	
66	Zn	72	1	2.67 ppb	0.63	10.00	
75	As	72	1	0.51 ppb	2.74	1.00	
78	Se	72	1	0.26 ppb	115.83	1.00	
95	Mo	72	1	2031.00 ppb	0.16	2000.00	
107	Ag	115	1	0.06 ppb	10.20	1.00	
111	Cd	115	1	0.56 ppb	7.58	1.00	
118	Sn	115	1	0.12 ppb	15.58	10.00	
121	Sb	115	1	0.29 ppb	0.86	1.00	
137	Ba	115	1	0.19 ppb	10.92	1.00	
205	Tl	165	1	0.03 ppb	14.56	1.00	
208	Pb	165	1	0.13 ppb	0.36	1.00	
232	Th	165	1	0.03 ppb	7.10	1.00	
238	U	165	1	0.00 ppb	5.68	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	479328	1.29	534602	89.7	30 - 120	
45	Sc	1	2213987	0.58	2551677	86.8	30 - 120	
72	Ge	1	1350445	0.21	1553005	87.0	30 - 120	
115	In	1	3640257	2.07	4260602	85.4	30 - 120	
165	Ho	1	7865956	0.43	8806612	89.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\011ICSB.D\011ICSB.D#
Date Acquired: Nov 8 2011 07:24 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: ICSAB-1118464
Misc Info:
Vial Number: 2109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9	Be	6	1	100.40	1.58	100	100.4	80 - 120	
51	V	72	1	102.50	2.22	100	102.5	80 - 120	
52	Cr	72	1	99.77	0.87	100	99.8	80 - 120	
55	Mn	72	1	100.00	1.36	100	100.0	80 - 120	
59	Co	72	1	96.00	0.85	100	96.0	80 - 120	
60	Ni	72	1	93.19	0.41	100	93.2	80 - 120	
63	Cu	72	1	90.77	0.67	100	90.8	80 - 120	
66	Zn	72	1	99.18	0.40	100	99.2	80 - 120	
75	As	72	1	105.30	0.39	100	105.3	80 - 120	
78	Se	72	1	109.90	3.79	100	109.9	80 - 120	
95	Mo	72	1	2161.00	0.33	2100	102.9	80 - 120	
107	Ag	115	1	90.42	2.87	100	90.4	80 - 120	
111	Cd	115	1	98.44	0.66	100	98.4	80 - 120	
118	Sn	115	1	97.68	0.44	100	97.7	80 - 120	
121	Sb	115	1	106.10	0.46	100	106.1	80 - 120	
137	Ba	115	1	105.30	0.66	100	105.3	80 - 120	
205	Tl	165	1	96.21	0.86	100	96.2	80 - 120	
208	Pb	165	1	95.94	0.17	100	95.9	80 - 120	
232	Th	165	1	102.80	1.56	100	102.8	80 - 120	
238	U	165	1	101.70	1.10	100	101.7	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	484521	0.47	534602	90.6	30 - 120	
45	Sc	1	2171664	0.79	2551677	85.1	30 - 120	
72	Ge	1	1321669	0.56	1553005	85.1	30 - 120	
115	In	1	3599608	0.92	4260602	84.5	30 - 120	
165	Ho	1	7867401	0.84	8806612	89.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\012WASH.D\012WASH.D#
Date Acquired: Nov 8 2011 07:27 pm
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.004	ppb	0.00	1.30	
51	V	72	1	0.008	ppb	15.98	6.50	
52	Cr	72	1	-0.009	ppb	76.49	2.60	
55	Mn	72	1	0.014	ppb	44.57	1.30	
59	Co	72	1	0.005	ppb	14.93	1.30	
60	Ni	72	1	-0.031	ppb	16.86	2.60	
63	Cu	72	1	0.004	ppb	40.12	2.60	
66	Zn	72	1	-0.017	ppb	45.87	13.00	
75	As	72	1	0.005	ppb	72.59	6.50	
78	Se	72	1	0.100	ppb	64.23	6.50	
95	Mo	72	1	0.362	ppb	2.75	2.60	
107	Ag	115	1	0.010	ppb	46.93	6.50	
111	Cd	115	1	0.012	ppb	66.14	1.30	
118	Sn	115	1	-0.011	ppb	88.80	13.00	
121	Sb	115	1	0.018	ppb	8.50	2.60	
137	Ba	115	1	0.008	ppb	26.22	1.30	
205	Tl	165	1	0.014	ppb	7.55	1.30	
208	Pb	165	1	0.007	ppb	15.17	1.30	
232	Th	165	1	0.025	ppb	3.54	2.60	
238	U	165	1	0.012	ppb	16.74	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	526540	0.76	534602	98.5	30 - 120	
45	Sc	1	2487839	1.79	2551677	97.5	30 - 120	
72	Ge	1	1542961	0.29	1553005	99.4	30 - 120	
115	In	1	4299153	1.73	4260602	100.9	30 - 120	
165	Ho	1	8856708	1.78	8806612	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Linear Dynamic Range Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\013_LR.D\013_LR.D#
Date Acquired:	Nov 8 2011 07:30 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	LRA-1118465
Misc Info:	
Vial Number:	2110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LR
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc.	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	1018.00 ppb	2.26	1000	101.8	90 - 110	
51	V	72	1	920.00 ppb	1.91	1000	92.0	90 - 110	
52	Cr	72	1	935.10 ppb	2.31	1000	93.5	90 - 110	
55	Mn	72	1	958.20 ppb	1.32	1000	95.8	90 - 110	
59	Co	72	1	961.60 ppb	1.16	1000	96.2	90 - 110	
60	Ni	72	1	973.30 ppb	1.24	1000	97.3	90 - 110	
63	Cu	72	1	930.70 ppb	1.79	1000	93.1	90 - 110	
66	Zn	72	1	989.60 ppb	1.16	1000	99.0	90 - 110	
75	As	72	1	1011.00 ppb	1.49	1000	101.1	90 - 110	
78	Se	72	1	1014.00 ppb	1.52	1000	101.4	90 - 110	
95	Mo	72	1	972.70 ppb	1.54	1000	97.3	90 - 110	
107	Ag	115	1	977.10 ppb	1.46	1000	97.7	90 - 110	
111	Cd	115	1	1002.00 ppb	1.80	1000	100.2	90 - 110	
118	Sn	115	1	959.10 ppb	0.80	1000	95.9	90 - 110	
121	Sb	115	1	984.10 ppb	1.06	1000	98.4	90 - 110	
137	Ba	115	1	1026.00 ppb	1.63	1000	102.6	90 - 110	
205	Tl	165	1	996.20 ppb	1.69	1000	99.6	90 - 110	
208	Pb	165	1	977.80 ppb	1.34	1000	97.8	90 - 110	
232	Th	165	1	1012.00 ppb	1.27	1000	101.2	90 - 110	
238	U	165	1	999.60 ppb	1.88	1000	100.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	509542	2.07	534602	95.3	30 - 120	
45	Sc	1	2443155	1.55	2551677	95.7	30 - 120	
72	Ge	1	1540155	1.24	1553005	99.2	30 - 120	
115	In	1	4214409	1.80	4260602	98.9	30 - 120	
165	Ho	1	8927289	0.93	8806612	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\014WASH.D\014WASH.D#
Date Acquired:	Nov 8 2011 07:32 pm
Operator:	LRD
Sample Name:	RINSE
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.059 ppb	74.23	1.30	
51	V	72	1	0.057 ppb	66.35	6.50	
52	Cr	72	1	0.038 ppb	85.95	2.60	
55	Mn	72	1	0.048 ppb	19.31	1.30	
59	Co	72	1	0.057 ppb	8.16	1.30	
60	Ni	72	1	0.023 ppb	38.56	2.60	
63	Cu	72	1	0.047 ppb	11.22	2.60	
66	Zn	72	1	0.050 ppb	12.18	13.00	
75	As	72	1	0.069 ppb	25.69	6.50	
78	Se	72	1	0.010 ppb	1862.20	6.50	
95	Mo	72	1	0.230 ppb	6.46	2.60	
107	Ag	115	1	0.089 ppb	11.11	6.50	
111	Cd	115	1	0.058 ppb	9.85	1.30	
118	Sn	115	1	0.363 ppb	13.58	13.00	
121	Sb	115	1	0.161 ppb	5.56	2.60	
137	Ba	115	1	0.060 ppb	20.47	1.30	
205	Tl	165	1	0.109 ppb	8.44	1.30	
208	Pb	165	1	0.058 ppb	17.09	1.30	
232	Th	165	1	0.154 ppb	7.41	2.60	
238	U	165	1	0.108 ppb	10.57	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	516423	0.84	534602	96.6	30 - 120	
45	Sc	1	2497630	0.21	2551677	97.9	30 - 120	
72	Ge	1	1554311	0.21	1553005	100.1	30 - 120	
115	In	1	4296007	0.20	4260602	100.8	30 - 120	
165	Ho	1	8831360	0.97	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\015_CCV.D\015_CCV.D#
Date Acquired:	Nov 8 2011 07:35 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.34	ppb	1.60	50	100.7	90 - 110	
51	V	72	1	49.96	ppb	0.54	50	99.9	90 - 110	
52	Cr	72	1	49.42	ppb	0.76	50	98.8	90 - 110	
55	Mn	72	1	50.64	ppb	2.02	50	101.3	90 - 110	
59	Co	72	1	50.39	ppb	1.74	50	100.8	90 - 110	
60	Ni	72	1	49.99	ppb	1.04	50	100.0	90 - 110	
63	Cu	72	1	48.63	ppb	1.60	50	97.3	90 - 110	
66	Zn	72	1	49.73	ppb	0.52	50	99.5	90 - 110	
75	As	72	1	50.08	ppb	1.25	50	100.2	90 - 110	
78	Se	72	1	52.04	ppb	3.35	50	104.1	90 - 110	
95	Mo	72	1	50.71	ppb	0.85	50	101.4	90 - 110	
107	Ag	115	1	50.11	ppb	1.42	50	100.2	90 - 110	
111	Cd	115	1	49.44	ppb	2.07	50	98.9	90 - 110	
118	Sn	115	1	47.95	ppb	0.80	50	95.9	90 - 110	
121	Sb	115	1	49.57	ppb	1.53	50	99.1	90 - 110	
137	Ba	115	1	50.88	ppb	1.97	50	101.8	90 - 110	
205	Tl	165	1	51.56	ppb	1.27	50	103.1	90 - 110	
208	Pb	165	1	50.48	ppb	0.52	50	101.0	90 - 110	
232	Th	165	1	51.47	ppb	0.61	50	102.9	90 - 110	
238	U	165	1	51.22	ppb	0.62	50	102.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	513383	0.76	534602	96.0	30 - 120	
45	Sc	1	2517785	0.24	2551677	98.7	30 - 120	
72	Ge	1	1547642	0.76	1553005	99.7	30 - 120	
115	In	1	4309535	1.36	4260602	101.1	30 - 120	
165	Ho	1	8802918	0.26	8806612	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\016_CCB.D\016_CCB.D#
Date Acquired: Nov 8 2011 07:38 pm
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	9514.00	1.00	
51	V	72	1	0.033	ppb	41.88	1.00	
52	Cr	72	1	0.015	ppb	97.42	1.00	
55	Mn	72	1	0.010	ppb	112.46	1.00	
59	Co	72	1	0.011	ppb	14.30	1.00	
60	Ni	72	1	-0.010	ppb	65.29	1.00	
63	Cu	72	1	0.001	ppb	302.28	1.00	
66	Zn	72	1	-0.010	ppb	133.96	1.00	
75	As	72	1	0.022	ppb	9.49	1.00	
78	Se	72	1	0.117	ppb	104.03	1.00	
95	Mo	72	1	0.053	ppb	25.69	1.00	
107	Ag	115	1	0.018	ppb	17.87	1.00	
111	Cd	115	1	0.013	ppb	19.04	1.00	
118	Sn	115	1	0.064	ppb	7.87	1.00	
121	Sb	115	1	0.040	ppb	7.03	1.00	
137	Ba	115	1	0.013	ppb	21.99	1.00	
205	Tl	165	1	0.025	ppb	6.09	1.00	
208	Pb	165	1	0.013	ppb	10.34	1.00	
232	Th	165	1	0.049	ppb	7.66	1.00	
238	U	165	1	0.020	ppb	3.91	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	522566	1.26	534602	97.7	30 - 120	
45	Sc	1	2535641	1.73	2551677	99.4	30 - 120	
72	Ge	1	1580821	0.86	1553005	101.8	30 - 120	
115	In	1	4303066	1.43	4260602	101.0	30 - 120	
165	Ho	1	8898335	0.46	8806612	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\017WASH.D\017WASH.D#
Date Acquired: Nov 8 2011 07:41 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.979	ppb	16.74	1.30	
51	V	72	1	5.034	ppb	0.56	6.50	
52	Cr	72	1	2.196	ppb	2.18	2.60	
55	Mn	72	1	1.246	ppb	1.38	1.30	
59	Co	72	1	1.120	ppb	0.41	1.30	
60	Ni	72	1	2.308	ppb	2.61	2.60	
63	Cu	72	1	2.232	ppb	1.07	2.60	
66	Zn	72	1	10.560	ppb	1.25	13.00	
75	As	72	1	5.253	ppb	1.19	6.50	
78	Se	72	1	5.668	ppb	9.05	6.50	
95	Mo	72	1	2.205	ppb	1.96	2.60	
107	Ag	115	1	5.215	ppb	1.00	6.50	
111	Cd	115	1	1.117	ppb	1.31	1.30	
118	Sn	115	1	9.991	ppb	2.61	13.00	
121	Sb	115	1	2.105	ppb	1.00	2.60	
137	Ba	115	1	1.162	ppb	3.44	1.30	
205	Tl	165	1	1.126	ppb	0.85	1.30	
208	Pb	165	1	1.109	ppb	1.44	1.30	
232	Th	165	1	2.106	ppb	1.34	2.60	
238	U	165	1	1.101	ppb	0.97	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	534448	0.33	534602	100.0	30 - 120	
45	Sc	1	2538647	1.37	2551677	99.5	30 - 120	
72	Ge	1	1570185	1.05	1553005	101.1	30 - 120	
115	In	1	4326908	0.38	4260602	101.6	30 - 120	
165	Ho	1	9026221	0.59	8806612	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\018_BLK.D\018_BLK.D#
Date Acquired:	Nov 8 2011 07:44 pm
Operator:	LRD
Sample Name:	mb 280-92644/1-a
Misc Info:	BLANK 92644 Soil DoD4/6020A
Vial Number:	2201
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.012 ppb	151.79	2.00	
51	V	72	1	0.037 ppb	12.28	2.00	
52	Cr	72	1	0.101 ppb	18.46	2.00	
55	Mn	72	1	0.221 ppb	4.98	2.00	
59	Co	72	1	0.008 ppb	16.08	2.00	
60	Ni	72	1	0.328 ppb	10.60	2.00	
63	Cu	72	1	0.410 ppb	4.18	2.00	
66	Zn	72	1	0.975 ppb	1.94	2.00	
75	As	72	1	0.017 ppb	34.62	2.00	
78	Se	72	1	0.059 ppb	218.07	2.00	
95	Mo	72	1	0.035 ppb	10.08	2.00	
107	Ag	115	1	0.013 ppb	12.10	2.00	
111	Cd	115	1	0.007 ppb	38.10	2.00	
118	Sn	115	1	0.099 ppb	6.29	2.00	
121	Sb	115	1	0.021 ppb	8.49	2.00	
137	Ba	115	1	0.509 ppb	2.31	2.00	
205	Tl	165	1	0.010 ppb	6.35	2.00	
208	Pb	165	1	0.035 ppb	5.32	2.00	
232	Th	165	1	0.023 ppb	6.12	2.00	
238	U	165	1	0.012 ppb	7.53	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532062	0.32	534602	99.5	30 - 120	
45	Sc	1	2607285	1.81	2551677	102.2	30 - 120	
72	Ge	1	1596260	2.14	1553005	102.8	30 - 120	
115	In	1	4398100	0.97	4260602	103.2	30 - 120	
165	Ho	1	9008031	0.63	8806612	102.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\019_LCS.D\019_LCS.D#
Date Acquired:	Nov 8 2011 07:47 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-92644/2-a
Misc Info:	LCS
Vial Number:	2202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	42.63	1.13	40	106.6	80 - 120	
51	V	72	1	42.24	2.22	40	105.6	80 - 120	
52	Cr	72	1	43.68	2.95	40	109.2	80 - 120	
55	Mn	72	1	42.63	3.11	40	106.6	80 - 120	
59	Co	72	1	42.83	2.05	40	107.1	80 - 120	
60	Ni	72	1	42.55	0.91	40	106.4	80 - 120	
63	Cu	72	1	41.57	1.91	40	103.9	80 - 120	
66	Zn	72	1	41.87	1.32	40	104.7	80 - 120	
75	As	72	1	42.21	1.51	40	105.5	80 - 120	
78	Se	72	1	42.77	5.65	40	106.9	80 - 120	
95	Mo	72	1	43.14	1.20	40	107.9	80 - 120	
107	Ag	115	1	42.51	2.54	40	106.3	80 - 120	
111	Cd	115	1	42.12	2.70	40	105.3	80 - 120	
118	Sn	115	1	40.95	0.88	40	102.4	80 - 120	
121	Sb	115	1	41.57	1.53	40	103.9	80 - 120	
137	Ba	115	1	43.36	1.22	40	108.4	80 - 120	
205	Tl	165	1	44.04	1.03	40	110.1	80 - 120	
208	Pb	165	1	42.83	1.07	40	107.1	80 - 120	
232	Th	165	1	42.59	0.21	40	106.5	80 - 120	
238	U	165	1	43.67	0.68	40	109.2	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	535943	1.55	534602	100.3	30 - 120	
45	Sc	1	2571767	0.99	2551677	100.8	30 - 120	
72	Ge	1	1592980	0.91	1553005	102.6	30 - 120	
115	In	1	4400623	1.71	4260602	103.3	30 - 120	
165	Ho	1	9001305	0.79	8806612	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\020SMPL.D\020SMPL.D#
Date Acquired:	Nov 8 2011 07:50 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-50-b
Misc Info:	
Vial Number:	2203
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.26	0.26	ppb	9.68	3600	
51	V	72	1	16.89	16.89	ppb	0.62	3600	
52	Cr	72	1	7.83	7.83	ppb	1.19	3600	
55	Mn	72	1	51.48	51.48	ppb	2.40	18000	
59	Co	72	1	0.79	0.79	ppb	5.91	3600	
60	Ni	72	1	3.23	3.23	ppb	1.70	3600	
63	Cu	72	1	2.09	2.09	ppb	2.19	3600	
66	Zn	72	1	13.29	13.29	ppb	0.64	3600	
75	As	72	1	3.56	3.56	ppb	1.50	3600	
78	Se	72	1	1.07	1.07	ppb	19.80	3600	
95	Mo	72	1	0.60	0.60	ppb	2.41	3600	
107	Ag	115	1	0.05	0.05	ppb	17.33	3600	
111	Cd	115	1	0.04	0.04	ppb	37.70	3600	
118	Sn	115	1	0.15	0.15	ppb	6.44	3600	
121	Sb	115	1	0.04	0.04	ppb	7.68	3600	
137	Ba	115	1	6.35	6.35	ppb	2.16	3600	
205	Tl	165	1	0.11	0.11	ppb	1.36	3600	
208	Pb	165	1	11.90	11.90	ppb	0.81	3600	
232	Th	165	1	9.94	9.94	ppb	2.59	1000	
238	U	165	1	1.53	1.53	ppb	1.68	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552532	0.43	534602	103.4	30 - 120	
45	Sc	1	2697449	1.08	2551677	105.7	30 - 120	
72	Ge	1	1632659	1.66	1553005	105.1	30 - 120	
115	In	1	4391405	1.13	4260602	103.1	30 - 120	
165	Ho	1	9323203	1.20	8806612	105.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\021SMPL.D\021SMPL.D#
Date Acquired:	Nov 8 2011 07:53 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-51-f
Misc Info:	
Vial Number:	2204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	12.66	3600	
51	V	72	1	20.53	20.53	ppb	0.97	3600	
52	Cr	72	1	8.68	8.68	ppb	0.90	3600	
55	Mn	72	1	59.81	59.81	ppb	0.99	18000	
59	Co	72	1	0.91	0.91	ppb	3.03	3600	
60	Ni	72	1	3.63	3.63	ppb	3.95	3600	
63	Cu	72	1	2.06	2.06	ppb	0.91	3600	
66	Zn	72	1	13.31	13.31	ppb	0.97	3600	
75	As	72	1	4.33	4.33	ppb	1.45	3600	
78	Se	72	1	1.51	1.51	ppb	9.70	3600	
95	Mo	72	1	0.59	0.59	ppb	0.65	3600	
107	Ag	115	1	0.03	0.03	ppb	6.85	3600	
111	Cd	115	1	0.03	0.03	ppb	4.94	3600	
118	Sn	115	1	0.11	0.11	ppb	7.90	3600	
121	Sb	115	1	0.03	0.03	ppb	8.21	3600	
137	Ba	115	1	6.37	6.37	ppb	1.69	3600	
205	Tl	165	1	0.10	0.10	ppb	4.03	3600	
208	Pb	165	1	12.00	12.00	ppb	0.59	3600	
232	Th	165	1	10.32	10.32	ppb	0.59	1000	
238	U	165	1	1.61	1.61	ppb	1.03	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552047	0.96	534602	103.3	30 - 120	
45	Sc	1	2719914	1.84	2551677	106.6	30 - 120	
72	Ge	1	1650639	2.00	1553005	106.3	30 - 120	
115	In	1	4506994	0.93	4260602	105.8	30 - 120	
165	Ho	1	9275395	0.83	8806612	105.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\022SMPL.D\022SMPL.D#
Date Acquired: Nov 8 2011 07:55 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-59-b
Misc Info:
Vial Number: 2205
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.14	0.14	ppb	63.34	3600	
51	V	72	1	12.54	12.54	ppb	1.62	3600	
52	Cr	72	1	5.25	5.25	ppb	0.27	3600	
55	Mn	72	1	29.87	29.87	ppb	0.42	18000	
59	Co	72	1	0.45	0.45	ppb	3.51	3600	
60	Ni	72	1	1.84	1.84	ppb	2.69	3600	
63	Cu	72	1	2.14	2.14	ppb	0.80	3600	
66	Zn	72	1	7.67	7.67	ppb	1.25	3600	
75	As	72	1	2.87	2.87	ppb	0.12	3600	
78	Se	72	1	1.33	1.33	ppb	13.07	3600	
95	Mo	72	1	0.41	0.41	ppb	0.55	3600	
107	Ag	115	1	0.03	0.03	ppb	18.32	3600	
111	Cd	115	1	0.04	0.04	ppb	39.78	3600	
118	Sn	115	1	0.07	0.07	ppb	18.30	3600	
121	Sb	115	1	0.03	0.03	ppb	14.60	3600	
137	Ba	115	1	6.22	6.22	ppb	1.11	3600	
205	Tl	165	1	0.08	0.08	ppb	1.16	3600	
208	Pb	165	1	11.15	11.15	ppb	0.87	3600	
232	Th	165	1	8.35	8.35	ppb	1.85	1000	
238	U	165	1	1.25	1.25	ppb	0.52	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551553	1.31	534602	103.2	30 - 120	
45	Sc	1	2721679	0.83	2551677	106.7	30 - 120	
72	Ge	1	1656734	1.00	1553005	106.7	30 - 120	
115	In	1	4508048	1.07	4260602	105.8	30 - 120	
165	Ho	1	9289618	0.45	8806612	105.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\023SMPL.D\023SMPL.D#
Date Acquired: Nov 8 2011 07:58 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-60-d
Misc Info:
Vial Number: 2206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.05	0.05	ppb	41.54	3600	
51 V	72	1	12.72	12.72	ppb	1.51	3600	
52 Cr	72	1	5.09	5.09	ppb	1.99	3600	
55 Mn	72	1	29.95	29.95	ppb	1.92	18000	
59 Co	72	1	0.44	0.44	ppb	2.06	3600	
60 Ni	72	1	1.80	1.80	ppb	2.08	3600	
63 Cu	72	1	1.65	1.65	ppb	3.50	3600	
66 Zn	72	1	7.06	7.06	ppb	0.63	3600	
75 As	72	1	2.77	2.77	ppb	1.31	3600	
78 Se	72	1	1.32	1.32	ppb	30.02	3600	
95 Mo	72	1	0.40	0.40	ppb	1.79	3600	
107 Ag	115	1	0.03	0.03	ppb	2.84	3600	
111 Cd	115	1	0.03	0.03	ppb	12.49	3600	
118 Sn	115	1	0.10	0.10	ppb	12.60	3600	
121 Sb	115	1	0.03	0.03	ppb	5.13	3600	
137 Ba	115	1	6.01	6.01	ppb	2.36	3600	
205 Tl	165	1	0.08	0.08	ppb	2.31	3600	
208 Pb	165	1	11.37	11.37	ppb	0.95	3600	
232 Th	165	1	9.58	9.58	ppb	0.63	1000	
238 U	165	1	1.30	1.30	ppb	1.01	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	550076	1.88	534602	102.9	30 - 120	
45 Sc	1	2709752	0.61	2551677	106.2	30 - 120	
72 Ge	1	1654173	1.25	1553005	106.5	30 - 120	
115 In	1	4544248	0.23	4260602	106.7	30 - 120	
165 Ho	1	9283591	1.35	8806612	105.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\024AREF.D\024AREF.D#
Date Acquired:	Nov 8 2011 08:01 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-61-b
Misc Info:	
Vial Number:	2207
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	7.42	3600	
51	V	72	1	16.32	16.32	ppb	4.07	3600	
52	Cr	72	1	9.28	9.28	ppb	3.07	3600	
55	Mn	72	1	39.91	39.91	ppb	2.64	18000	
59	Co	72	1	0.90	0.90	ppb	2.35	3600	
60	Ni	72	1	4.54	4.54	ppb	2.56	3600	
63	Cu	72	1	2.12	2.12	ppb	0.81	3600	
66	Zn	72	1	10.92	10.92	ppb	0.88	3600	
75	As	72	1	3.33	3.33	ppb	1.85	3600	
78	Se	72	1	1.28	1.28	ppb	9.69	3600	
95	Mo	72	1	0.44	0.44	ppb	4.93	3600	
107	Ag	115	1	0.04	0.04	ppb	7.14	3600	
111	Cd	115	1	0.06	0.06	ppb	33.98	3600	
118	Sn	115	1	0.18	0.18	ppb	2.68	3600	
121	Sb	115	1	0.02	0.02	ppb	9.50	3600	
137	Ba	115	1	10.30	10.30	ppb	2.34	3600	
205	Tl	165	1	0.10	0.10	ppb	2.04	3600	
208	Pb	165	1	8.73	8.73	ppb	3.26	3600	
232	Th	165	1	10.34	10.34	ppb	2.77	1000	
238	U	165	1	1.44	1.44	ppb	2.93	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	547000	0.47	534602	102.3	30 - 120	
45	Sc	1	2704075	0.60	2551677	106.0	30 - 120	
72	Ge	1	1641356	1.58	1553005	105.7	30 - 120	
115	In	1	4477705	0.24	4260602	105.1	30 - 120	
165	Ho	1	9268789	1.83	8806612	105.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\025SDIL.D\025SDIL.D#
Date Acquired: Nov 8 2011 08:04 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-61-b SD@5
Misc Info: SERIAL DILUTION
Vial Number: 2208
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\024AREF.D\024AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.11	ppb	16.53	0.06	180.3	90 - 110	
51	V	72	1	3.25	ppb	2.63	3.26	99.4	90 - 110	
52	Cr	72	1	1.84	ppb	1.30	1.86	99.0	90 - 110	
55	Mn	72	1	7.86	ppb	2.78	7.98	98.5	90 - 110	
59	Co	72	1	0.19	ppb	2.17	0.18	103.1	90 - 110	
60	Ni	72	1	0.89	ppb	1.90	0.91	98.1	90 - 110	
63	Cu	72	1	0.42	ppb	6.19	0.42	98.0	90 - 110	
66	Zn	72	1	4.08	ppb	1.79	2.18	187.0	90 - 110	
75	As	72	1	0.68	ppb	0.66	0.67	101.5	90 - 110	
78	Se	72	1	0.18	ppb	113.61	0.26	69.8	90 - 110	
95	Mo	72	1	0.09	ppb	3.39	0.09	102.7	90 - 110	
107	Ag	115	1	0.01	ppb	19.13	0.01	91.0	90 - 110	
111	Cd	115	1	0.02	ppb	26.42	0.01	144.4	90 - 110	
118	Sn	115	1	0.04	ppb	19.45	0.04	113.3	90 - 110	
121	Sb	115	1	0.01	ppb	11.25	0.00	165.6	90 - 110	
137	Ba	115	1	2.07	ppb	1.36	2.06	100.4	90 - 110	
205	Tl	165	1	0.02	ppb	9.90	0.02	120.1	90 - 110	
208	Pb	165	1	1.77	ppb	0.64	1.75	101.4	90 - 110	
232	Th	165	1	2.05	ppb	1.14	2.07	99.1	90 - 110	
238	U	165	1	0.29	ppb	1.75	0.29	101.0	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551770	1.43	534602	103.2	30 - 120	
45	Sc	1	2731360	0.71	2551677	107.0	30 - 120	
72	Ge	1	1672895	0.64	1553005	107.7	30 - 120	
115	In	1	4516313	0.57	4260602	106.0	30 - 120	
165	Ho	1	9272644	0.29	8806612	105.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\026_CCV.D\026_CCV.D#
Date Acquired: Nov 8 2011 08:07 pm
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.80	ppb	2.20	50	103.6	90 - 110	
51	V	72	1	50.79	ppb	1.83	50	101.6	90 - 110	
52	Cr	72	1	50.27	ppb	2.19	50	100.5	90 - 110	
55	Mn	72	1	51.42	ppb	1.96	50	102.8	90 - 110	
59	Co	72	1	50.97	ppb	1.01	50	101.9	90 - 110	
60	Ni	72	1	50.21	ppb	1.40	50	100.4	90 - 110	
63	Cu	72	1	49.82	ppb	1.68	50	99.6	90 - 110	
66	Zn	72	1	49.28	ppb	0.64	50	98.6	90 - 110	
75	As	72	1	50.21	ppb	0.84	50	100.4	90 - 110	
78	Se	72	1	52.12	ppb	3.78	50	104.2	90 - 110	
95	Mo	72	1	50.51	ppb	1.35	50	101.0	90 - 110	
107	Ag	115	1	51.54	ppb	0.86	50	103.1	90 - 110	
111	Cd	115	1	50.01	ppb	0.89	50	100.0	90 - 110	
118	Sn	115	1	48.79	ppb	1.49	50	97.6	90 - 110	
121	Sb	115	1	50.04	ppb	0.83	50	100.1	90 - 110	
137	Ba	115	1	51.68	ppb	1.09	50	103.4	90 - 110	
205	Tl	165	1	51.56	ppb	1.71	50	103.1	90 - 110	
208	Pb	165	1	49.96	ppb	1.02	50	99.9	90 - 110	
232	Th	165	1	50.55	ppb	0.93	50	101.1	90 - 110	
238	U	165	1	49.71	ppb	2.48	50	99.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539437	0.91	534602	100.9	30 - 120	
45	Sc	1	2681668	1.38	2551677	105.1	30 - 120	
72	Ge	1	1644661	1.54	1553005	105.9	30 - 120	
115	In	1	4442205	0.52	4260602	104.3	30 - 120	
165	Ho	1	9091904	1.95	8806612	103.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\027_CCB.D\027_CCB.D#
Date Acquired: Nov 8 2011 08:10 pm
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	30313.00	1.00	
51	V	72	1	0.009	ppb	231.83	1.00	
52	Cr	72	1	-0.007	ppb	44.25	1.00	
55	Mn	72	1	0.005	ppb	15.26	1.00	
59	Co	72	1	0.007	ppb	5.24	1.00	
60	Ni	72	1	-0.019	ppb	49.73	1.00	
63	Cu	72	1	-0.008	ppb	82.26	1.00	
66	Zn	72	1	-0.022	ppb	72.68	1.00	
75	As	72	1	0.013	ppb	76.66	1.00	
78	Se	72	1	0.215	ppb	71.33	1.00	
95	Mo	72	1	0.022	ppb	11.65	1.00	
107	Ag	115	1	0.010	ppb	22.70	1.00	
111	Cd	115	1	0.002	ppb	103.23	1.00	
118	Sn	115	1	0.008	ppb	82.60	1.00	
121	Sb	115	1	0.016	ppb	3.57	1.00	
137	Ba	115	1	0.005	ppb	72.46	1.00	
205	Tl	165	1	0.019	ppb	5.20	1.00	
208	Pb	165	1	0.007	ppb	12.36	1.00	
232	Th	165	1	0.041	ppb	4.34	1.00	
238	U	165	1	0.009	ppb	11.39	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541315	1.07	534602	101.3	30 - 120	
45	Sc	1	2661771	0.82	2551677	104.3	30 - 120	
72	Ge	1	1629940	0.65	1553005	105.0	30 - 120	
115	In	1	4500934	1.00	4260602	105.6	30 - 120	
165	Ho	1	9070420	0.52	8806612	103.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\028WASH.D\028WASH.D#
Date Acquired: Nov 8 2011 08:13 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.149	ppb	7.59	1.30	
51	V	72	1	5.044	ppb	0.75	6.50	
52	Cr	72	1	2.176	ppb	0.63	2.60	
55	Mn	72	1	1.236	ppb	2.21	1.30	
59	Co	72	1	1.099	ppb	1.98	1.30	
60	Ni	72	1	2.214	ppb	1.52	2.60	
63	Cu	72	1	2.177	ppb	3.68	2.60	
66	Zn	72	1	10.450	ppb	0.59	13.00	
75	As	72	1	5.215	ppb	0.55	6.50	
78	Se	72	1	5.790	ppb	3.19	6.50	
95	Mo	72	1	2.208	ppb	4.26	2.60	
107	Ag	115	1	5.064	ppb	0.36	6.50	
111	Cd	115	1	1.080	ppb	2.87	1.30	
118	Sn	115	1	9.805	ppb	1.84	13.00	
121	Sb	115	1	2.088	ppb	1.30	2.60	
137	Ba	115	1	1.139	ppb	2.42	1.30	
205	Tl	165	1	1.129	ppb	0.71	1.30	
208	Pb	165	1	1.105	ppb	1.68	1.30	
232	Th	165	1	2.115	ppb	2.23	2.60	
238	U	165	1	1.083	ppb	0.56	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541533	0.89	534602	101.3	30 - 120	
45	Sc	1	2653998	1.21	2551677	104.0	30 - 120	
72	Ge	1	1651823	0.80	1553005	106.4	30 - 120	
115	In	1	4504296	0.47	4260602	105.7	30 - 120	
165	Ho	1	9060288	0.18	8806612	102.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\029PDS.D\029PDS.D#
Date Acquired:	Nov 8 2011 08:16 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-61-b PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	2209
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00
Spike Ref. File:	---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	213.70	0.30	ppb	1.64	200	106.7	75 - 125	
51 V	72	1	215.90	16.32	ppb	1.50	200	99.8	75 - 125	
52 Cr	72	1	209.60	9.28	ppb	1.75	200	100.2	75 - 125	
55 Mn	72	1	241.90	39.91	ppb	1.74	200	100.8	75 - 125	
59 Co	72	1	201.80	0.90	ppb	2.15	200	100.4	75 - 125	
60 Ni	72	1	214.80	4.54	ppb	0.91	200	105.0	75 - 125	
63 Cu	72	1	201.50	2.12	ppb	1.31	200	99.7	75 - 125	
66 Zn	72	1	210.80	10.92	ppb	1.06	200	99.9	75 - 125	
75 As	72	1	212.80	3.33	ppb	0.93	200	104.7	75 - 125	
78 Se	72	1	215.60	1.28	ppb	2.08	200	107.1	75 - 125	
95 Mo	72	1	212.60	0.44	ppb	1.49	200	106.1	75 - 125	
107 Ag	115	1	51.80	0.04	ppb	0.75	50	103.5	75 - 125	
111 Cd	115	1	211.60	0.06	ppb	2.14	200	105.8	75 - 125	
118 Sn	115	1	207.90	0.18	ppb	2.57	200	103.9	75 - 125	
121 Sb	115	1	209.80	0.02	ppb	1.72	200	104.9	75 - 125	
137 Ba	115	1	231.60	10.30	ppb	1.71	200	110.1	75 - 125	
205 Tl	165	1	203.80	0.10	ppb	1.44	200	101.8	75 - 125	
208 Pb	165	1	208.10	8.73	ppb	0.74	200	99.7	75 - 125	
232 Th	165	1	10.22	10.34	ppb	1.09	200	4.9	75 - 125	
238 U	165	1	199.00	1.44	ppb	1.39	200	98.8	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	551009	0.62	534602	103.1	30 - 120	
45 Sc	1	2671654	0.52	2551677	104.7	30 - 120	
72 Ge	1	1628602	0.85	1553005	104.9	30 - 120	
115 In	1	4454965	0.95	4260602	104.6	30 - 120	
165 Ho	1	9371074	0.69	8806612	106.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\030_MS.D\030_MS.D#	
Date Acquired:	Nov 8 2011 08:19 pm	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	LRD	**ISTD: Pass**
Sample Name:	280-21902-a-61-c ms	
Misc Info:	MATRIX SPIKE	
Vial Number:	2210	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 08 2011 07:04 pm	
Sample Type:	MS	
Prep Dil. Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	43.57	0.30	ppb	0.65	40	108.1	50 - 150	
51	V	72	1	64.87	16.32	ppb	1.56	40	115.2	50 - 150	
52	Cr	72	1	54.36	9.28	ppb	0.16	40	110.3	50 - 150	
55	Mn	72	1	95.08	39.91	ppb	1.90	40	119.0	50 - 150	
59	Co	72	1	43.75	0.90	ppb	1.06	40	107.0	50 - 150	
60	Ni	72	1	47.27	4.54	ppb	0.65	40	106.1	50 - 150	
63	Cu	72	1	42.38	2.12	ppb	0.89	40	100.6	50 - 150	
66	Zn	72	1	54.42	10.92	ppb	0.41	40	106.9	50 - 150	
75	As	72	1	44.31	3.33	ppb	0.80	40	102.3	50 - 150	
78	Se	72	1	42.30	1.28	ppb	1.90	40	102.5	50 - 150	
95	Mo	72	1	39.25	0.44	ppb	1.33	40	97.1	50 - 150	
107	Ag	115	1	41.92	0.04	ppb	0.56	40	104.7	50 - 150	
111	Cd	115	1	42.22	0.06	ppb	1.42	40	105.4	50 - 150	
118	Sn	115	1	14.07	0.18	ppb	1.44	40	35.0	50 - 150	
121	Sb	115	1	6.97	0.02	ppb	2.10	40	17.4	50 - 150	
137	Ba	115	1	55.47	10.30	ppb	1.57	40	110.3	50 - 150	
205	Tl	165	1	43.59	0.10	ppb	1.28	40	108.7	50 - 150	
208	Pb	165	1	50.37	8.73	ppb	1.14	40	103.4	50 - 150	
232	Th	165	1	54.82	10.34	ppb	1.90	40	108.9	50 - 150	
238	U	165	1	44.39	1.44	ppb	1.77	40	107.1	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	556610	0.79	534602	104.1	30 - 120	
45	Sc	1	2703654	1.48	2551677	106.0	30 - 120	
72	Ge	1	1661483	0.85	1553005	107.0	30 - 120	
115	In	1	4487818	1.23	4260602	105.3	30 - 120	
165	Ho	1	9194975	1.00	8806612	104.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\031_MSD.D\031_MSD.D#
Date Acquired:	Nov 8 2011 08:22 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-61-d msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	2211
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\030_MS.D\030_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	44.88	ppb	0.18	43.57	2.96	20	
51	V	72	1	63.77	ppb	1.32	64.87	1.71	20	
52	Cr	72	1	54.68	ppb	2.07	54.36	0.59	20	
55	Mn	72	1	93.73	ppb	1.11	95.08	1.43	20	
59	Co	72	1	44.00	ppb	0.81	43.75	0.57	20	
60	Ni	72	1	47.72	ppb	0.31	47.27	0.95	20	
63	Cu	72	1	42.61	ppb	0.97	42.38	0.54	20	
66	Zn	72	1	53.73	ppb	0.59	54.42	1.28	20	
75	As	72	1	44.45	ppb	0.88	44.31	0.32	20	
78	Se	72	1	43.52	ppb	4.24	42.30	2.84	20	
95	Mo	72	1	39.45	ppb	0.14	39.25	0.51	20	
107	Ag	115	1	41.63	ppb	1.07	41.92	0.69	20	
111	Cd	115	1	42.19	ppb	0.84	42.22	0.07	20	
118	Sn	115	1	14.00	ppb	0.59	14.07	0.50	20	
121	Sb	115	1	6.55	ppb	0.79	6.97	6.20	20	
137	Ba	115	1	58.36	ppb	1.56	55.47	5.08	20	
205	Tl	165	1	42.93	ppb	0.65	43.59	1.53	20	
208	Pb	165	1	49.33	ppb	1.02	50.37	2.09	20	
232	Th	165	1	52.64	ppb	2.18	54.82	4.06	20	
238	U	165	1	43.76	ppb	1.48	44.39	1.43	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552178	0.42	534602	103.3	30 - 120	
45	Sc	1	2671501	1.57	2551677	104.7	30 - 120	
72	Ge	1	1648957	1.13	1553005	106.2	30 - 120	
115	In	1	4506349	1.14	4260602	105.8	30 - 120	
165	Ho	1	9292729	0.70	8806612	105.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\032SMPL.D\032SMPL.D#
Date Acquired: Nov 8 2011 08:24 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-63-b
Misc Info:
Vial Number: 2212
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.24	0.24	ppb	22.76	3600	
51	V	72	1	19.04	19.04	ppb	1.72	3600	
52	Cr	72	1	8.72	8.72	ppb	1.05	3600	
55	Mn	72	1	58.26	58.26	ppb	1.32	18000	
59	Co	72	1	0.80	0.80	ppb	1.03	3600	
60	Ni	72	1	3.42	3.42	ppb	1.43	3600	
63	Cu	72	1	2.49	2.49	ppb	1.43	3600	
66	Zn	72	1	15.15	15.15	ppb	0.28	3600	
75	As	72	1	4.20	4.20	ppb	2.64	3600	
78	Se	72	1	1.48	1.48	ppb	10.89	3600	
95	Mo	72	1	0.63	0.63	ppb	7.66	3600	
107	Ag	115	1	0.04	0.04	ppb	16.75	3600	
111	Cd	115	1	0.08	0.08	ppb	27.34	3600	
118	Sn	115	1	0.16	0.16	ppb	20.11	3600	
121	Sb	115	1	0.04	0.04	ppb	8.21	3600	
137	Ba	115	1	10.97	10.97	ppb	1.86	3600	
205	Tl	165	1	0.13	0.13	ppb	0.59	3600	
208	Pb	165	1	16.65	16.65	ppb	0.14	3600	
232	Th	165	1	10.59	10.59	ppb	0.52	1000	
238	U	165	1	1.58	1.58	ppb	0.29	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	551749	1.12	534602	103.2	30 - 120	
45	Sc	1	2690517	2.56	2551677	105.4	30 - 120	
72	Ge	1	1632594	0.69	1553005	105.1	30 - 120	
115	In	1	4499400	1.60	4260602	105.6	30 - 120	
165	Ho	1	9217805	0.63	8806612	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\033SMPL.D\033SMPL.D#
Date Acquired:	Nov 8 2011 08:27 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-64-d
Misc Info:	
Vial Number:	2301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.30	0.30	ppb	7.82	3600	
51	V	72	1	22.30	22.30	ppb	1.68	3600	
52	Cr	72	1	14.21	14.21	ppb	1.41	3600	
55	Mn	72	1	49.04	49.04	ppb	2.20	18000	
59	Co	72	1	1.48	1.48	ppb	2.36	3600	
60	Ni	72	1	6.65	6.65	ppb	1.65	3600	
63	Cu	72	1	2.18	2.18	ppb	0.96	3600	
66	Zn	72	1	14.74	14.74	ppb	0.56	3600	
75	As	72	1	5.16	5.16	ppb	2.32	3600	
78	Se	72	1	1.61	1.61	ppb	16.86	3600	
95	Mo	72	1	0.67	0.67	ppb	0.61	3600	
107	Ag	115	1	0.03	0.03	ppb	12.01	3600	
111	Cd	115	1	0.08	0.08	ppb	5.85	3600	
118	Sn	115	1	0.17	0.17	ppb	11.18	3600	
121	Sb	115	1	0.02	0.02	ppb	8.11	3600	
137	Ba	115	1	11.48	11.48	ppb	2.64	3600	
205	Tl	165	1	0.14	0.14	ppb	0.50	3600	
208	Pb	165	1	9.28	9.28	ppb	1.48	3600	
232	Th	165	1	12.47	12.47	ppb	2.27	1000	
238	U	165	1	1.73	1.73	ppb	1.13	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539929	1.30	534602	101.0	30 - 120	
45	Sc	1	2641608	0.52	2551677	103.5	30 - 120	
72	Ge	1	1631061	0.61	1553005	105.0	30 - 120	
115	In	1	4409459	1.84	4260602	103.5	30 - 120	
165	Ho	1	9097401	0.90	8806612	103.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\034SMPL.D\034SMPL.D#
Date Acquired: Nov 8 2011 08:30 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-65-d
Misc Info:
Vial Number: 2302
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.13	0.13	ppb	36.68	3600	
51	V	72	1	15.51	15.51	ppb	1.16	3600	
52	Cr	72	1	6.49	6.49	ppb	1.58	3600	
55	Mn	72	1	25.95	25.95	ppb	1.84	18000	
59	Co	72	1	0.46	0.46	ppb	0.61	3600	
60	Ni	72	1	2.28	2.28	ppb	3.95	3600	
63	Cu	72	1	2.36	2.36	ppb	1.08	3600	
66	Zn	72	1	8.09	8.09	ppb	2.59	3600	
75	As	72	1	3.02	3.02	ppb	2.63	3600	
78	Se	72	1	1.18	1.18	ppb	17.14	3600	
95	Mo	72	1	0.55	0.55	ppb	1.37	3600	
107	Ag	115	1	0.04	0.04	ppb	5.43	3600	
111	Cd	115	1	0.04	0.04	ppb	23.74	3600	
118	Sn	115	1	0.11	0.11	ppb	8.74	3600	
121	Sb	115	1	0.03	0.03	ppb	1.85	3600	
137	Ba	115	1	6.78	6.78	ppb	0.25	3600	
205	Tl	165	1	0.09	0.09	ppb	5.33	3600	
208	Pb	165	1	19.67	19.67	ppb	1.33	3600	
232	Th	165	1	8.95	8.95	ppb	3.14	1000	
238	U	165	1	1.27	1.27	ppb	1.41	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	552522	1.98	534602	103.4	30 - 120	
45	Sc	1	2714996	1.21	2551677	106.4	30 - 120	
72	Ge	1	1681515	1.59	1553005	108.3	30 - 120	
115	In	1	4592082	0.90	4260602	107.8	30 - 120	
165	Ho	1	9283625	1.79	8806612	105.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\035SMPL.D\035SMPL.D#
Date Acquired: Nov 8 2011 08:33 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-66-b
Misc Info:
Vial Number: 2303
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.37	0.37	ppb	18.79	3600	
51	V	72	1	24.79	24.79	ppb	2.20	3600	
52	Cr	72	1	12.13	12.13	ppb	1.69	3600	
55	Mn	72	1	33.08	33.08	ppb	1.51	18000	
59	Co	72	1	0.87	0.87	ppb	0.45	3600	
60	Ni	72	1	4.42	4.42	ppb	2.23	3600	
63	Cu	72	1	2.24	2.24	ppb	2.12	3600	
66	Zn	72	1	11.74	11.74	ppb	2.14	3600	
75	As	72	1	4.88	4.88	ppb	2.17	3600	
78	Se	72	1	1.39	1.39	ppb	19.99	3600	
95	Mo	72	1	0.78	0.78	ppb	4.93	3600	
107	Ag	115	1	0.03	0.03	ppb	6.45	3600	
111	Cd	115	1	0.04	0.04	ppb	16.54	3600	
118	Sn	115	1	0.18	0.18	ppb	3.54	3600	
121	Sb	115	1	0.02	0.02	ppb	5.18	3600	
137	Ba	115	1	10.04	10.04	ppb	2.44	3600	
205	Tl	165	1	0.12	0.12	ppb	4.88	3600	
208	Pb	165	1	15.92	15.92	ppb	1.20	3600	
232	Th	165	1	9.50	9.50	ppb	0.76	1000	
238	U	165	1	1.39	1.39	ppb	0.37	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541580	0.92	534602	101.3	30 - 120	
45	Sc	1	2714009	2.41	2551677	106.4	30 - 120	
72	Ge	1	1663985	2.05	1553005	107.1	30 - 120	
115	In	1	4509403	0.37	4260602	105.8	30 - 120	
165	Ho	1	9256710	0.74	8806612	105.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\036SMPL.D\036SMPL.D#
Date Acquired: Nov 8 2011 08:36 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-67-d
Misc Info:
Vial Number: 2304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.34	0.34	ppb	36.82	3600	
51	V	72	1	25.45	25.45	ppb	1.96	3600	
52	Cr	72	1	12.87	12.87	ppb	1.73	3600	
55	Mn	72	1	56.60	56.60	ppb	1.39	18000	
59	Co	72	1	0.94	0.94	ppb	2.46	3600	
60	Ni	72	1	6.05	6.05	ppb	1.33	3600	
63	Cu	72	1	2.05	2.05	ppb	2.61	3600	
66	Zn	72	1	15.24	15.24	ppb	1.10	3600	
75	As	72	1	4.81	4.81	ppb	0.84	3600	
78	Se	72	1	1.52	1.52	ppb	29.50	3600	
95	Mo	72	1	0.75	0.75	ppb	6.10	3600	
107	Ag	115	1	0.03	0.03	ppb	10.83	3600	
111	Cd	115	1	0.06	0.06	ppb	33.54	3600	
118	Sn	115	1	0.17	0.17	ppb	6.58	3600	
121	Sb	115	1	0.02	0.02	ppb	14.18	3600	
137	Ba	115	1	9.57	9.57	ppb	0.82	3600	
205	Tl	165	1	0.12	0.12	ppb	1.55	3600	
208	Pb	165	1	14.37	14.37	ppb	1.29	3600	
232	Th	165	1	8.87	8.87	ppb	0.26	1000	
238	U	165	1	1.37	1.37	ppb	0.76	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	543840	1.07	534602	101.7	30 - 120	
45	Sc	1	2725720	1.53	2551677	106.8	30 - 120	
72	Ge	1	1658099	0.71	1553005	106.8	30 - 120	
115	In	1	4515277	1.50	4260602	106.0	30 - 120	
165	Ho	1	9194729	1.33	8806612	104.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\037_CCV.D\037_CCV.D#
Date Acquired:	Nov 8 2011 08:39 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.91	ppb	0.65	50	101.8	90 - 110	
51	V	72	1	49.61	ppb	1.09	50	99.2	90 - 110	
52	Cr	72	1	49.96	ppb	0.13	50	99.9	90 - 110	
55	Mn	72	1	50.65	ppb	2.21	50	101.3	90 - 110	
59	Co	72	1	50.51	ppb	1.86	50	101.0	90 - 110	
60	Ni	72	1	49.77	ppb	0.14	50	99.5	90 - 110	
63	Cu	72	1	49.92	ppb	0.35	50	99.8	90 - 110	
66	Zn	72	1	49.43	ppb	0.25	50	98.9	90 - 110	
75	As	72	1	50.02	ppb	1.12	50	100.0	90 - 110	
78	Se	72	1	52.40	ppb	0.57	50	104.8	90 - 110	
95	Mo	72	1	50.07	ppb	0.98	50	100.1	90 - 110	
107	Ag	115	1	51.26	ppb	0.99	50	102.5	90 - 110	
111	Cd	115	1	49.74	ppb	0.73	50	99.5	90 - 110	
118	Sn	115	1	47.99	ppb	0.51	50	96.0	90 - 110	
121	Sb	115	1	49.52	ppb	0.85	50	99.0	90 - 110	
137	Ba	115	1	51.24	ppb	0.63	50	102.5	90 - 110	
205	Tl	165	1	50.90	ppb	2.00	50	101.8	90 - 110	
208	Pb	165	1	49.54	ppb	0.66	50	99.1	90 - 110	
232	Th	165	1	49.60	ppb	0.98	50	99.2	90 - 110	
238	U	165	1	49.39	ppb	0.68	50	98.8	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540664	0.91	534602	101.1	30 - 120	
45	Sc	1	2682692	2.03	2551677	105.1	30 - 120	
72	Ge	1	1668749	0.95	1553005	107.5	30 - 120	
115	In	1	4531029	0.60	4260602	106.3	30 - 120	
165	Ho	1	9200433	0.69	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\038_CCB.D\038_CCB.D#
Date Acquired:	Nov 8 2011 08:42 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	115.86	1.00	
51	V	72	1	0.022	ppb	57.04	1.00	
52	Cr	72	1	-0.009	ppb	135.02	1.00	
55	Mn	72	1	0.003	ppb	10.94	1.00	
59	Co	72	1	0.004	ppb	17.10	1.00	
60	Ni	72	1	-0.012	ppb	119.87	1.00	
63	Cu	72	1	-0.004	ppb	226.94	1.00	
66	Zn	72	1	-0.014	ppb	24.90	1.00	
75	As	72	1	0.011	ppb	13.48	1.00	
78	Se	72	1	0.140	ppb	90.68	1.00	
95	Mo	72	1	0.009	ppb	58.91	1.00	
107	Ag	115	1	0.007	ppb	49.31	1.00	
111	Cd	115	1	0.004	ppb	203.33	1.00	
118	Sn	115	1	-0.004	ppb	165.17	1.00	
121	Sb	115	1	0.018	ppb	23.30	1.00	
137	Ba	115	1	0.007	ppb	43.60	1.00	
205	Tl	165	1	0.019	ppb	7.97	1.00	
208	Pb	165	1	0.009	ppb	5.78	1.00	
232	Th	165	1	0.038	ppb	0.71	1.00	
238	U	165	1	0.010	ppb	6.43	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	545004	0.13	534602	101.9	30 - 120	
45	Sc	1	2702888	1.49	2551677	105.9	30 - 120	
72	Ge	1	1673752	1.07	1553005	107.8	30 - 120	
115	In	1	4542706	1.58	4260602	106.6	30 - 120	
165	Ho	1	9252038	1.41	8806612	105.1	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\039WASH.D\039WASH.D#
Date Acquired:	Nov 8 2011 08:45 pm
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.128	ppb	19.90	1.30	
51	V	72	1	4.950	ppb	0.10	6.50	
52	Cr	72	1	2.161	ppb	3.38	2.60	
55	Mn	72	1	1.216	ppb	4.22	1.30	
59	Co	72	1	1.084	ppb	2.12	1.30	
60	Ni	72	1	2.265	ppb	1.95	2.60	
63	Cu	72	1	2.181	ppb	0.75	2.60	
66	Zn	72	1	10.520	ppb	1.52	13.00	
75	As	72	1	5.266	ppb	0.60	6.50	
78	Se	72	1	5.996	ppb	9.71	6.50	
95	Mo	72	1	2.205	ppb	0.80	2.60	
107	Ag	115	1	5.139	ppb	2.33	6.50	
111	Cd	115	1	1.085	ppb	1.96	1.30	
118	Sn	115	1	9.943	ppb	2.03	13.00	
121	Sb	115	1	2.111	ppb	1.49	2.60	
137	Ba	115	1	1.167	ppb	2.78	1.30	
205	Tl	165	1	1.106	ppb	0.47	1.30	
208	Pb	165	1	1.097	ppb	1.78	1.30	
232	Th	165	1	2.087	ppb	2.04	2.60	
238	U	165	1	1.068	ppb	1.43	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	545800	0.83	534602	102.1	30 - 120	
45	Sc	1	2716616	1.93	2551677	106.5	30 - 120	
72	Ge	1	1674310	0.73	1553005	107.8	30 - 120	
115	In	1	4552276	1.49	4260602	106.8	30 - 120	
165	Ho	1	9203100	0.95	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\040SMPL.D\040SMPL.D#
Date Acquired:	Nov 8 2011 08:48 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-68-d
Misc Info:	
Vial Number:	2305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.12	0.12	ppb	22.84	3600	
51	V	72	1	13.36	13.36	ppb	1.46	3600	
52	Cr	72	1	5.31	5.31	ppb	1.22	3600	
55	Mn	72	1	26.62	26.62	ppb	1.11	18000	
59	Co	72	1	0.40	0.40	ppb	5.03	3600	
60	Ni	72	1	2.06	2.06	ppb	0.68	3600	
63	Cu	72	1	2.24	2.24	ppb	1.20	3600	
66	Zn	72	1	9.16	9.16	ppb	0.61	3600	
75	As	72	1	2.81	2.81	ppb	0.35	3600	
78	Se	72	1	1.66	1.66	ppb	10.77	3600	
95	Mo	72	1	0.46	0.46	ppb	0.72	3600	
107	Ag	115	1	0.04	0.04	ppb	11.28	3600	
111	Cd	115	1	0.03	0.03	ppb	36.59	3600	
118	Sn	115	1	0.11	0.11	ppb	5.76	3600	
121	Sb	115	1	0.03	0.03	ppb	2.75	3600	
137	Ba	115	1	5.98	5.98	ppb	0.80	3600	
205	Tl	165	1	0.10	0.10	ppb	0.68	3600	
208	Pb	165	1	13.57	13.57	ppb	0.91	3600	
232	Th	165	1	11.51	11.51	ppb	1.90	1000	
238	U	165	1	1.56	1.56	ppb	1.67	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	553912	0.56	534602	103.6	30 - 120	
45	Sc	1	2786191	0.52	2551677	109.2	30 - 120	
72	Ge	1	1695225	0.16	1553005	109.2	30 - 120	
115	In	1	4590377	1.25	4260602	107.7	30 - 120	
165	Ho	1	9312750	0.51	8806612	105.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\041SMPL.D\041SMPL.D#
Date Acquired:	Nov 8 2011 08:51 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-69-d
Misc Info:	
Vial Number:	2306
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.21	0.21	ppb	34.05	3600	
51	V	72	1	24.31	24.31	ppb	1.61	3600	
52	Cr	72	1	11.52	11.52	ppb	2.07	3600	
55	Mn	72	1	36.67	36.67	ppb	1.80	18000	
59	Co	72	1	0.91	0.91	ppb	1.35	3600	
60	Ni	72	1	4.31	4.31	ppb	0.82	3600	
63	Cu	72	1	1.81	1.81	ppb	2.17	3600	
66	Zn	72	1	12.36	12.36	ppb	0.45	3600	
75	As	72	1	4.63	4.63	ppb	0.54	3600	
78	Se	72	1	1.35	1.35	ppb	32.38	3600	
95	Mo	72	1	0.69	0.69	ppb	6.21	3600	
107	Ag	115	1	0.04	0.04	ppb	6.55	3600	
111	Cd	115	1	0.04	0.04	ppb	38.40	3600	
118	Sn	115	1	0.21	0.21	ppb	8.08	3600	
121	Sb	115	1	0.02	0.02	ppb	12.69	3600	
137	Ba	115	1	8.37	8.37	ppb	1.30	3600	
205	Tl	165	1	0.14	0.14	ppb	1.80	3600	
208	Pb	165	1	13.10	13.10	ppb	1.38	3600	
232	Th	165	1	8.21	8.21	ppb	1.30	1000	
238	U	165	1	1.22	1.22	ppb	0.65	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	554659	0.46	534602	103.8	30 - 120	
45	Sc	1	2729769	0.97	2551677	107.0	30 - 120	
72	Ge	1	1689450	0.52	1553005	108.8	30 - 120	
115	In	1	4553268	0.86	4260602	106.9	30 - 120	
165	Ho	1	9376804	1.60	8806612	106.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\042SMPL.D\042SMPL.D#
Date Acquired:	Nov 8 2011 08:53 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-70-b
Misc Info:	
Vial Number:	2307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.19	0.19	ppb	4.12	3600	
51	V	72	1	16.33	16.33	ppb	1.34	3600	
52	Cr	72	1	7.33	7.33	ppb	1.35	3600	
55	Mn	72	1	37.03	37.03	ppb	1.36	18000	
59	Co	72	1	0.58	0.58	ppb	1.76	3600	
60	Ni	72	1	2.54	2.54	ppb	3.81	3600	
63	Cu	72	1	1.90	1.90	ppb	3.36	3600	
66	Zn	72	1	7.07	7.07	ppb	0.47	3600	
75	As	72	1	3.09	3.09	ppb	2.33	3600	
78	Se	72	1	1.33	1.33	ppb	16.35	3600	
95	Mo	72	1	0.92	0.92	ppb	3.78	3600	
107	Ag	115	1	0.02	0.02	ppb	8.77	3600	
111	Cd	115	1	0.02	0.02	ppb	48.78	3600	
118	Sn	115	1	0.09	0.09	ppb	29.65	3600	
121	Sb	115	1	0.03	0.03	ppb	6.22	3600	
137	Ba	115	1	4.93	4.93	ppb	1.80	3600	
205	Tl	165	1	0.09	0.09	ppb	0.17	3600	
208	Pb	165	1	21.65	21.65	ppb	1.68	3600	
232	Th	165	1	10.50	10.50	ppb	1.20	1000	
238	U	165	1	1.72	1.72	ppb	0.65	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	546263	0.55	534602	102.2	30 - 120	
45	Sc	1	2739426	1.02	2551677	107.4	30 - 120	
72	Ge	1	1687937	0.77	1553005	108.7	30 - 120	
115	In	1	4544249	0.62	4260602	106.7	30 - 120	
165	Ho	1	9332410	1.53	8806612	106.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\043SMPL.D\043SMPL.D#
Date Acquired:	Nov 8 2011 08:56 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-71-b
Misc Info:	
Vial Number:	2308
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.41	0.41	ppb	32.24	3600	
51	V	72	1	27.08	27.08	ppb	2.04	3600	
52	Cr	72	1	16.62	16.62	ppb	1.78	3600	
55	Mn	72	1	64.28	64.28	ppb	0.63	18000	
59	Co	72	1	1.97	1.97	ppb	1.15	3600	
60	Ni	72	1	7.85	7.85	ppb	1.49	3600	
63	Cu	72	1	3.00	3.00	ppb	1.29	3600	
66	Zn	72	1	15.47	15.47	ppb	1.13	3600	
75	As	72	1	5.48	5.48	ppb	1.29	3600	
78	Se	72	1	1.43	1.43	ppb	18.68	3600	
95	Mo	72	1	1.34	1.34	ppb	1.64	3600	
107	Ag	115	1	0.02	0.02	ppb	5.15	3600	
111	Cd	115	1	0.05	0.05	ppb	39.99	3600	
118	Sn	115	1	0.19	0.19	ppb	4.28	3600	
121	Sb	115	1	0.02	0.02	ppb	8.87	3600	
137	Ba	115	1	8.74	8.74	ppb	0.61	3600	
205	Tl	165	1	0.12	0.12	ppb	1.84	3600	
208	Pb	165	1	14.86	14.86	ppb	1.30	3600	
232	Th	165	1	13.22	13.22	ppb	1.93	1000	
238	U	165	1	1.86	1.86	ppb	0.73	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540739	0.48	534602	101.1	30 - 120	
45	Sc	1	2745142	1.69	2551677	107.6	30 - 120	
72	Ge	1	1672350	1.15	1553005	107.7	30 - 120	
115	In	1	4538153	0.78	4260602	106.5	30 - 120	
165	Ho	1	9216785	1.15	8806612	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\044SMPL.D\044SMPL.D#
Date Acquired:	Nov 8 2011 08:59 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-72-d
Misc Info:	
Vial Number:	2309
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.19	0.19	ppb	27.11	3600	
51	V	72	1	21.27	21.27	ppb	1.35	3600	
52	Cr	72	1	8.99	8.99	ppb	1.68	3600	
55	Mn	72	1	28.32	28.32	ppb	1.21	18000	
59	Co	72	1	0.57	0.57	ppb	2.86	3600	
60	Ni	72	1	2.43	2.43	ppb	1.35	3600	
63	Cu	72	1	1.84	1.84	ppb	0.84	3600	
66	Zn	72	1	8.31	8.31	ppb	1.70	3600	
75	As	72	1	3.84	3.84	ppb	2.70	3600	
78	Se	72	1	1.17	1.17	ppb	26.63	3600	
95	Mo	72	1	1.13	1.13	ppb	3.03	3600	
107	Ag	115	1	0.03	0.03	ppb	5.10	3600	
111	Cd	115	1	0.02	0.02	ppb	39.92	3600	
118	Sn	115	1	0.18	0.18	ppb	5.31	3600	
121	Sb	115	1	0.02	0.02	ppb	6.53	3600	
137	Ba	115	1	4.86	4.86	ppb	0.37	3600	
205	Tl	165	1	0.11	0.11	ppb	2.09	3600	
208	Pb	165	1	28.09	28.09	ppb	0.78	3600	
232	Th	165	1	10.23	10.23	ppb	0.84	1000	
238	U	165	1	1.47	1.47	ppb	0.29	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	537253	1.16	534602	100.5	30 - 120	
45	Sc	1	2698291	2.39	2551677	105.7	30 - 120	
72	Ge	1	1652411	0.99	1553005	106.4	30 - 120	
115	In	1	4551311	0.51	4260602	106.8	30 - 120	
165	Ho	1	9130434	0.41	8806612	103.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\045SMPL.D\045SMPL.D#
Date Acquired: Nov 8 2011 09:02 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-73-b
Misc Info:
Vial Number: 2310
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.28	0.28	ppb	30.87	3600	
51	V	72	1	25.98	25.98	ppb	1.13	3600	
52	Cr	72	1	14.52	14.52	ppb	0.37	3600	
55	Mn	72	1	39.63	39.63	ppb	0.97	18000	
59	Co	72	1	1.20	1.20	ppb	1.15	3600	
60	Ni	72	1	5.40	5.40	ppb	1.52	3600	
63	Cu	72	1	3.03	3.03	ppb	1.25	3600	
66	Zn	72	1	13.02	13.02	ppb	0.38	3600	
75	As	72	1	4.36	4.36	ppb	0.31	3600	
78	Se	72	1	1.33	1.33	ppb	7.60	3600	
95	Mo	72	1	0.98	0.98	ppb	6.26	3600	
107	Ag	115	1	0.03	0.03	ppb	10.10	3600	
111	Cd	115	1	0.05	0.05	ppb	33.13	3600	
118	Sn	115	1	0.19	0.19	ppb	2.67	3600	
121	Sb	115	1	0.01	0.01	ppb	22.80	3600	
137	Ba	115	1	7.22	7.22	ppb	1.25	3600	
205	Tl	165	1	0.13	0.13	ppb	2.32	3600	
208	Pb	165	1	21.29	21.29	ppb	0.41	3600	
232	Th	165	1	10.52	10.52	ppb	0.70	1000	
238	U	165	1	1.57	1.57	ppb	0.43	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	539841	0.84	534602	101.0	30 - 120	
45	Sc	1	2698470	1.09	2551677	105.8	30 - 120	
72	Ge	1	1658631	0.69	1553005	106.8	30 - 120	
115	In	1	4529103	1.49	4260602	106.3	30 - 120	
165	Ho	1	9199313	0.20	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\046SMPL.D\046SMPL.D#
Date Acquired: Nov 8 2011 09:05 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-74-b
Misc Info:
Vial Number: 2311
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.18	0.18	ppb	27.04	3600	
51	V	72	1	18.08	18.08	ppb	0.55	3600	
52	Cr	72	1	8.40	8.40	ppb	0.47	3600	
55	Mn	72	1	34.69	34.69	ppb	0.75	18000	
59	Co	72	1	0.64	0.64	ppb	1.95	3600	
60	Ni	72	1	2.72	2.72	ppb	2.81	3600	
63	Cu	72	1	1.39	1.39	ppb	2.53	3600	
66	Zn	72	1	8.92	8.92	ppb	1.33	3600	
75	As	72	1	3.30	3.30	ppb	1.77	3600	
78	Se	72	1	1.13	1.13	ppb	31.57	3600	
95	Mo	72	1	0.61	0.61	ppb	2.49	3600	
107	Ag	115	1	0.03	0.03	ppb	10.41	3600	
111	Cd	115	1	0.03	0.03	ppb	18.75	3600	
118	Sn	115	1	0.16	0.16	ppb	1.79	3600	
121	Sb	115	1	0.02	0.02	ppb	6.70	3600	
137	Ba	115	1	5.47	5.47	ppb	1.07	3600	
205	Tl	165	1	0.10	0.10	ppb	2.83	3600	
208	Pb	165	1	19.31	19.31	ppb	0.98	3600	
232	Th	165	1	9.41	9.41	ppb	0.77	1000	
238	U	165	1	1.31	1.31	ppb	0.48	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	548000	1.20	534602	102.5	30 - 120	
45	Sc	1	2720835	1.84	2551677	106.6	30 - 120	
72	Ge	1	1686707	0.90	1553005	108.6	30 - 120	
115	In	1	4529218	0.15	4260602	106.3	30 - 120	
165	Ho	1	9200643	0.73	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\047SMPL.D\047SMPL.D#
Date Acquired: Nov 8 2011 09:08 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-75-d
Misc Info:
Vial Number: 2312
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.41	0.41	ppb	14.59	3600	
51 V	72	1	19.38	19.38	ppb	0.60	3600	
52 Cr	72	1	12.68	12.68	ppb	0.79	3600	
55 Mn	72	1	41.93	41.93	ppb	2.27	18000	
59 Co	72	1	1.35	1.35	ppb	1.66	3600	
60 Ni	72	1	5.54	5.54	ppb	0.22	3600	
63 Cu	72	1	2.15	2.15	ppb	0.96	3600	
66 Zn	72	1	11.98	11.98	ppb	0.88	3600	
75 As	72	1	3.98	3.98	ppb	1.67	3600	
78 Se	72	1	1.26	1.26	ppb	18.66	3600	
95 Mo	72	1	0.55	0.55	ppb	7.84	3600	
107 Ag	115	1	0.02	0.02	ppb	8.54	3600	
111 Cd	115	1	0.05	0.05	ppb	21.62	3600	
118 Sn	115	1	0.13	0.13	ppb	4.13	3600	
121 Sb	115	1	0.01	0.01	ppb	21.16	3600	
137 Ba	115	1	6.91	6.91	ppb	0.36	3600	
205 Tl	165	1	0.11	0.11	ppb	2.72	3600	
208 Pb	165	1	8.69	8.69	ppb	0.28	3600	
232 Th	165	1	9.43	9.43	ppb	0.46	1000	
238 U	165	1	1.59	1.59	ppb	0.89	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	537887	0.35	534602	100.6	30 - 120	
45 Sc	1	2769404	0.89	2551677	108.5	30 - 120	
72 Ge	1	1683640	0.76	1553005	108.4	30 - 120	
115 In	1	4560845	0.60	4260602	107.0	30 - 120	
165 Ho	1	9254690	0.39	8806612	105.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\048_CCV.D\048_CCV.D#
Date Acquired: Nov 8 2011 09:11 pm
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.84	ppb	2.45	50	103.7	90 - 110	
51	V	72	1	51.40	ppb	1.56	50	102.8	90 - 110	
52	Cr	72	1	50.58	ppb	0.92	50	101.2	90 - 110	
55	Mn	72	1	51.19	ppb	2.85	50	102.4	90 - 110	
59	Co	72	1	50.88	ppb	2.53	50	101.8	90 - 110	
60	Ni	72	1	50.36	ppb	1.17	50	100.7	90 - 110	
63	Cu	72	1	50.39	ppb	2.77	50	100.8	90 - 110	
66	Zn	72	1	49.83	ppb	1.50	50	99.7	90 - 110	
75	As	72	1	50.54	ppb	1.51	50	101.1	90 - 110	
78	Se	72	1	52.62	ppb	3.09	50	105.2	90 - 110	
95	Mo	72	1	50.47	ppb	1.12	50	100.9	90 - 110	
107	Ag	115	1	50.07	ppb	1.96	50	100.1	90 - 110	
111	Cd	115	1	49.31	ppb	2.37	50	98.6	90 - 110	
118	Sn	115	1	48.22	ppb	2.39	50	96.4	90 - 110	
121	Sb	115	1	49.04	ppb	1.86	50	98.1	90 - 110	
137	Ba	115	1	50.95	ppb	2.31	50	101.9	90 - 110	
205	Tl	165	1	51.19	ppb	0.92	50	102.4	90 - 110	
208	Pb	165	1	49.35	ppb	0.32	50	98.7	90 - 110	
232	Th	165	1	49.98	ppb	1.16	50	100.0	90 - 110	
238	U	165	1	49.17	ppb	0.93	50	98.3	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	533410	1.32	534602	99.8	30 - 120	
45	Sc	1	2718448	2.02	2551677	106.5	30 - 120	
72	Ge	1	1664700	1.71	1553005	107.2	30 - 120	
115	In	1	4592939	2.29	4260602	107.8	30 - 120	
165	Ho	1	9189680	0.53	8806612	104.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\049_CCB.D\049_CCB.D#
Date Acquired:	Nov 8 2011 09:14 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.012	ppb	152.34	1.00	
51	V	72	1	0.021	ppb	25.73	1.00	
52	Cr	72	1	0.003	ppb	329.70	1.00	
55	Mn	72	1	0.009	ppb	72.00	1.00	
59	Co	72	1	0.006	ppb	14.43	1.00	
60	Ni	72	1	-0.015	ppb	45.01	1.00	
63	Cu	72	1	-0.005	ppb	106.83	1.00	
66	Zn	72	1	-0.017	ppb	50.20	1.00	
75	As	72	1	0.012	ppb	119.53	1.00	
78	Se	72	1	0.236	ppb	110.57	1.00	
95	Mo	72	1	0.013	ppb	32.01	1.00	
107	Ag	115	1	0.008	ppb	18.15	1.00	
111	Cd	115	1	0.002	ppb	261.29	1.00	
118	Sn	115	1	-0.012	ppb	114.03	1.00	
121	Sb	115	1	0.013	ppb	19.03	1.00	
137	Ba	115	1	0.004	ppb	63.65	1.00	
205	Tl	165	1	0.009	ppb	16.05	1.00	
208	Pb	165	1	0.006	ppb	12.36	1.00	
232	Th	165	1	0.031	ppb	7.20	1.00	
238	U	165	1	0.008	ppb	18.76	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	541763	0.90	534602	101.3	30 - 120	
45	Sc	1	2793727	2.42	2551677	109.5	30 - 120	
72	Ge	1	1676006	1.61	1553005	107.9	30 - 120	
115	In	1	4663291	1.35	4260602	109.5	30 - 120	
165	Ho	1	9184510	0.90	8806612	104.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\050WASH.D\050WASH.D#
Date Acquired: Nov 8 2011 09:17 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.101	ppb	24.13	1.30	
51	V	72	1	5.144	ppb	3.97	6.50	
52	Cr	72	1	2.211	ppb	4.04	2.60	
55	Mn	72	1	1.228	ppb	2.82	1.30	
59	Co	72	1	1.111	ppb	0.65	1.30	
60	Ni	72	1	2.293	ppb	1.91	2.60	
63	Cu	72	1	2.230	ppb	2.91	2.60	
66	Zn	72	1	10.590	ppb	1.34	13.00	
75	As	72	1	5.299	ppb	2.98	6.50	
78	Se	72	1	5.768	ppb	7.26	6.50	
95	Mo	72	1	2.210	ppb	1.67	2.60	
107	Ag	115	1	5.173	ppb	1.26	6.50	
111	Cd	115	1	1.136	ppb	1.39	1.30	
118	Sn	115	1	9.920	ppb	1.05	13.00	
121	Sb	115	1	2.126	ppb	1.00	2.60	
137	Ba	115	1	1.139	ppb	0.67	1.30	
205	Tl	165	1	1.119	ppb	0.26	1.30	
208	Pb	165	1	1.091	ppb	0.90	1.30	
232	Th	165	1	2.098	ppb	0.64	2.60	
238	U	165	1	1.069	ppb	0.23	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	540475	1.40	534602	101.1	30 - 120	
45	Sc	1	2712641	1.80	2551677	106.3	30 - 120	
72	Ge	1	1666801	2.00	1553005	107.3	30 - 120	
115	In	1	4534304	1.01	4260602	106.4	30 - 120	
165	Ho	1	9155785	0.73	8806612	104.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\051_BLK.D\051_BLK.D#
Date Acquired: Nov 8 2011 09:20 pm
Operator: LRD
Sample Name: mb 280-95210/1-a
Misc Info: BLANK 95210 Soil DoD4/6020A
Vial Number: 3306
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.008 ppb	0.57	2.00	
51 V	72	1	0.011 ppb	61.69	2.00	
52 Cr	72	1	0.095 ppb	4.65	2.00	
55 Mn	72	1	0.099 ppb	13.77	2.00	
59 Co	72	1	0.004 ppb	59.21	2.00	
60 Ni	72	1	0.059 ppb	12.06	2.00	
63 Cu	72	1	0.056 ppb	14.08	2.00	
66 Zn	72	1	0.132 ppb	8.50	2.00	
75 As	72	1	0.008 ppb	60.40	2.00	
78 Se	72	1	0.325 ppb	23.15	2.00	
95 Mo	72	1	0.007 ppb	15.31	2.00	
107 Ag	115	1	0.005 ppb	24.06	2.00	
111 Cd	115	1	0.004 ppb	23.95	2.00	
118 Sn	115	1	0.055 ppb	11.08	2.00	
121 Sb	115	1	0.006 ppb	26.89	2.00	
137 Ba	115	1	0.048 ppb	6.70	2.00	
205 Tl	165	1	0.005 ppb	2.21	2.00	
208 Pb	165	1	0.014 ppb	7.95	2.00	
232 Th	165	1	0.019 ppb	14.35	2.00	
238 U	165	1	0.004 ppb	2.07	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	551609	0.38	534602	103.2	30 - 120	
45 Sc	1	2797734	1.46	2551677	109.6	30 - 120	
72 Ge	1	1696242	0.39	1553005	109.2	30 - 120	
115 In	1	4656460	1.24	4260602	109.3	30 - 120	
165 Ho	1	9369119	1.26	8806612	106.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\052_LCS.D\052_LCS.D#
Date Acquired: Nov 8 2011 09:23 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-95210/2-a
Misc Info: LCS
Vial Number: 3307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	40.78	1.47	40	102.0	80 - 120	
51 V	72	1	39.91	2.46	40	99.8	80 - 120	
52 Cr	72	1	40.56	1.81	40	101.4	80 - 120	
55 Mn	72	1	40.01	1.80	40	100.0	80 - 120	
59 Co	72	1	39.77	1.22	40	99.4	80 - 120	
60 Ni	72	1	39.48	0.46	40	98.7	80 - 120	
63 Cu	72	1	39.07	0.60	40	97.7	80 - 120	
66 Zn	72	1	38.15	0.74	40	95.4	80 - 120	
75 As	72	1	39.63	0.99	40	99.1	80 - 120	
78 Se	72	1	40.05	1.84	40	100.1	80 - 120	
95 Mo	72	1	39.38	0.87	40	98.5	80 - 120	
107 Ag	115	1	39.02	0.53	40	97.6	80 - 120	
111 Cd	115	1	38.80	0.23	40	97.0	80 - 120	
118 Sn	115	1	37.78	0.58	40	94.5	80 - 120	
121 Sb	115	1	37.83	0.41	40	94.6	80 - 120	
137 Ba	115	1	39.75	0.53	40	99.4	80 - 120	
205 Tl	165	1	40.60	0.71	40	101.5	80 - 120	
208 Pb	165	1	39.67	1.19	40	99.2	80 - 120	
232 Th	165	1	39.87	0.80	40	99.7	80 - 120	
238 U	165	1	39.79	1.10	40	99.5	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	547125	0.71	534602	102.3	30 - 120	
45 Sc	1	2771230	0.46	2551677	108.6	30 - 120	
72 Ge	1	1674436	0.44	1553005	107.8	30 - 120	
115 In	1	4653895	0.21	4260602	109.2	30 - 120	
165 Ho	1	9198222	0.83	8806612	104.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Labratory Control Spike Duplicate Sample (LCSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\053LCSD.D\053LCSD.D#
Date Acquired:	Nov 8 2011 09:26 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcsd 280-95210/3-a
Misc Info:	LCSD
Vial Number:	3308
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\052_LCS.D\052_LCS.D#

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9	Be	6	1	40.14 ppb	1.24	40.78	1.58	2000	
51	V	72	1	39.76 ppb	1.69	39.91	0.38	2000	
52	Cr	72	1	40.34 ppb	0.78	40.56	0.54	2000	
55	Mn	72	1	39.94 ppb	1.09	40.01	0.18	2000	
59	Co	72	1	40.33 ppb	1.78	39.77	1.40	2000	
60	Ni	72	1	39.44 ppb	1.54	39.48	0.10	2000	
63	Cu	72	1	38.81 ppb	1.28	39.07	0.67	2000	
66	Zn	72	1	38.43 ppb	1.37	38.15	0.73	2000	
75	As	72	1	39.62 ppb	0.62	39.63	0.03	2000	
78	Se	72	1	42.05 ppb	1.43	40.05	4.87	2000	
95	Mo	72	1	39.11 ppb	1.28	39.38	0.69	2000	
107	Ag	115	1	40.36 ppb	1.87	39.02	3.38	2000	
111	Cd	115	1	39.19 ppb	0.61	38.80	1.00	2000	
118	Sn	115	1	37.66 ppb	1.01	37.78	0.32	2000	
121	Sb	115	1	37.95 ppb	0.30	37.83	0.32	2000	
137	Ba	115	1	40.64 ppb	0.56	39.75	2.21	2000	
205	Tl	165	1	40.66 ppb	0.51	40.60	0.15	2000	
208	Pb	165	1	39.05 ppb	0.34	39.67	1.58	2000	
232	Th	165	1	39.10 ppb	1.16	39.87	1.95	2000	
238	U	165	1	39.07 ppb	0.33	39.79	1.83	2000	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	555334	0.58	534602	103.9	30 - 120	
45	Sc	1	2746480	1.29	2551677	107.6	30 - 120	
72	Ge	1	1692451	0.96	1553005	109.0	30 - 120	
115	In	1	4638954	0.41	4260602	108.9	30 - 120	
165	Ho	1	9354473	0.41	8806612	106.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\054AREF.D\054AREF.D#
Date Acquired:	Nov 8 2011 09:29 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-53-h
Misc Info:	
Vial Number:	3309
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.47	0.47	ppb	5.19	3600	
51	V	72	1	30.32	30.32	ppb	0.37	3600	
52	Cr	72	1	15.81	15.81	ppb	0.39	3600	
55	Mn	72	1	292.60	292.60	ppb	0.53	18000	
59	Co	72	1	1.73	1.73	ppb	1.77	3600	
60	Ni	72	1	7.04	7.04	ppb	1.90	3600	
63	Cu	72	1	8.78	8.78	ppb	1.17	3600	
66	Zn	72	1	41.36	41.36	ppb	0.35	3600	
75	As	72	1	6.25	6.25	ppb	1.69	3600	
78	Se	72	1	1.88	1.88	ppb	8.37	3600	
95	Mo	72	1	1.39	1.39	ppb	1.52	3600	
107	Ag	115	1	0.11	0.11	ppb	4.01	3600	
111	Cd	115	1	0.63	0.63	ppb	1.75	3600	
118	Sn	115	1	0.14	0.14	ppb	0.84	3600	
121	Sb	115	1	0.07	0.07	ppb	7.61	3600	
137	Ba	115	1	20.19	20.19	ppb	1.08	3600	
205	Tl	165	1	0.22	0.22	ppb	2.29	3600	
208	Pb	165	1	38.61	38.61	ppb	1.32	3600	
232	Th	165	1	12.02	12.02	ppb	2.02	1000	
238	U	165	1	2.53	2.53	ppb	1.44	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	547023	0.79	534602	102.3	30 - 120	
45	Sc	1	2742038	0.72	2551677	107.5	30 - 120	
72	Ge	1	1695512	0.56	1553005	109.2	30 - 120	
115	In	1	4539400	1.33	4260602	106.5	30 - 120	
165	Ho	1	9237457	0.87	8806612	104.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\055SDIL.D\055SDIL.D#
Date Acquired: Nov 8 2011 09:32 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-53-h SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3310
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\054AREF.D\054AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.11	ppb	13.08	0.09	115.0	90 - 110	
51	V	72	1	5.93	ppb	2.84	6.06	97.8	90 - 110	
52	Cr	72	1	3.14	ppb	1.23	3.16	99.2	90 - 110	
55	Mn	72	1	60.19	ppb	1.85	58.52	102.9	90 - 110	
59	Co	72	1	0.35	ppb	0.96	0.35	102.1	90 - 110	
60	Ni	72	1	1.39	ppb	1.51	1.41	98.9	90 - 110	
63	Cu	72	1	1.73	ppb	1.22	1.76	98.3	90 - 110	
66	Zn	72	1	8.22	ppb	0.59	8.27	99.4	90 - 110	
75	As	72	1	1.21	ppb	3.03	1.25	97.1	90 - 110	
78	Se	72	1	0.36	ppb	37.67	0.38	96.8	90 - 110	
95	Mo	72	1	0.26	ppb	7.27	0.28	93.1	90 - 110	
107	Ag	115	1	0.02	ppb	3.93	0.02	94.3	90 - 110	
111	Cd	115	1	0.12	ppb	10.06	0.13	94.4	90 - 110	
118	Sn	115	1	0.14	ppb	6.62	0.03	478.9	90 - 110	
121	Sb	115	1	0.02	ppb	8.24	0.01	127.8	90 - 110	
137	Ba	115	1	3.80	ppb	0.78	4.04	94.1	90 - 110	
205	Tl	165	1	0.05	ppb	5.42	0.04	103.5	90 - 110	
208	Pb	165	1	7.58	ppb	0.70	7.72	98.1	90 - 110	
232	Th	165	1	2.36	ppb	1.88	2.40	98.0	90 - 110	
238	U	165	1	0.50	ppb	1.25	0.51	98.8	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	544489	0.38	534602	101.8	30 - 120	
45	Sc	1	2771427	0.81	2551677	108.6	30 - 120	
72	Ge	1	1706128	0.35	1553005	109.9	30 - 120	
115	In	1	4663128	1.56	4260602	109.4	30 - 120	
165	Ho	1	9230419	1.29	8806612	104.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\056PDS.D\056PDS.D#
Date Acquired:	Nov 8 2011 09:34 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-53-h PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3311
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	220.10	0.47	ppb	0.92	200	109.8	75 - 125	
51 V	72	1	234.00	30.32	ppb	1.47	200	101.6	75 - 125	
52 Cr	72	1	219.90	15.81	ppb	0.98	200	101.9	75 - 125	
55 Mn	72	1	499.80	292.60	ppb	1.00	200	101.5	75 - 125	
59 Co	72	1	206.70	1.73	ppb	1.36	200	102.5	75 - 125	
60 Ni	72	1	221.30	7.04	ppb	1.77	200	106.9	75 - 125	
63 Cu	72	1	211.50	8.78	ppb	0.39	200	101.3	75 - 125	
66 Zn	72	1	243.00	41.36	ppb	0.52	200	100.7	75 - 125	
75 As	72	1	220.70	6.25	ppb	0.78	200	107.0	75 - 125	
78 Se	72	1	221.20	1.88	ppb	0.96	200	109.6	75 - 125	
95 Mo	72	1	218.40	1.39	ppb	2.64	200	108.4	75 - 125	
107 Ag	115	1	52.61	0.11	ppb	1.40	50	105.0	75 - 125	
111 Cd	115	1	217.70	0.63	ppb	2.79	200	108.5	75 - 125	
118 Sn	115	1	209.60	0.14	ppb	0.37	200	104.7	75 - 125	
121 Sb	115	1	211.40	0.07	ppb	1.81	200	105.7	75 - 125	
137 Ba	115	1	244.50	20.19	ppb	0.86	200	111.0	75 - 125	
205 Tl	165	1	208.00	0.22	ppb	0.11	200	103.9	75 - 125	
208 Pb	165	1	240.90	38.61	ppb	1.29	200	101.0	75 - 125	
232 Th	165	1	12.23	12.02	ppb	0.72	200	5.8	75 - 125	
238 U	165	1	204.50	2.53	ppb	1.29	200	101.0	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	544138	1.41	534602	101.8	30 - 120	
45 Sc	1	2711673	1.09	2551677	106.3	30 - 120	
72 Ge	1	1665998	1.36	1553005	107.3	30 - 120	
115 In	1	4513049	0.87	4260602	105.9	30 - 120	
165 Ho	1	9230485	0.47	8806612	104.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\057_MS.D\057_MS.D#
Date Acquired:	Nov 8 2011 09:37 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-53-i ms
Misc Info:	MATRIX SPIKE
Vial Number:	3312
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	40.98	0.47	ppb	1.96	40	101.3	50 - 150	
51 V	72	1	70.39	30.32	ppb	2.10	40	100.1	50 - 150	
52 Cr	72	1	54.34	15.81	ppb	1.31	40	97.4	50 - 150	
55 Mn	72	1	314.50	292.60	ppb	0.74	40	94.6	50 - 150	
59 Co	72	1	40.90	1.73	ppb	1.78	40	98.0	50 - 150	
60 Ni	72	1	45.85	7.04	ppb	1.75	40	97.5	50 - 150	
63 Cu	72	1	46.93	8.78	ppb	1.60	40	96.2	50 - 150	
66 Zn	72	1	78.62	41.36	ppb	0.78	40	96.6	50 - 150	
75 As	72	1	43.66	6.25	ppb	1.65	40	94.4	50 - 150	
78 Se	72	1	40.98	1.88	ppb	2.37	40	97.8	50 - 150	
95 Mo	72	1	36.69	1.39	ppb	1.49	40	88.6	50 - 150	
107 Ag	115	1	38.00	0.11	ppb	1.53	40	94.7	50 - 150	
111 Cd	115	1	38.99	0.63	ppb	2.31	40	96.0	50 - 150	
118 Sn	115	1	2.04	0.14	ppb	2.43	40	5.1	50 - 150	
121 Sb	115	1	5.50	0.07	ppb	0.91	40	13.7	50 - 150	
137 Ba	115	1	58.79	20.19	ppb	1.25	40	97.7	50 - 150	
205 Tl	165	1	39.05	0.22	ppb	0.90	40	97.1	50 - 150	
208 Pb	165	1	74.87	38.61	ppb	1.07	40	95.2	50 - 150	
232 Th	165	1	45.26	12.02	ppb	0.90	40	87.0	50 - 150	
238 U	165	1	40.57	2.53	ppb	1.48	40	95.4	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	541790	0.49	534602	101.3	30 - 120	
45 Sc	1	2737373	1.80	2551677	107.3	30 - 120	
72 Ge	1	1645761	1.29	1553005	106.0	30 - 120	
115 In	1	4520629	1.43	4260602	106.1	30 - 120	
165 Ho	1	9287612	0.51	8806612	105.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\058_MSD.D\058_MSD.D#
Date Acquired:	Nov 8 2011 09:40 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-53-j msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	3401
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\057_MS.D\057_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	39.33	ppb	2.71	40.98	4.11	20	
51	V	72	1	68.89	ppb	1.08	70.39	2.15	20	
52	Cr	72	1	53.90	ppb	0.45	54.34	0.81	20	
55	Mn	72	1	313.90	ppb	1.18	314.50	0.19	20	
59	Co	72	1	41.66	ppb	2.13	40.90	1.84	20	
60	Ni	72	1	45.48	ppb	2.10	45.85	0.81	20	
63	Cu	72	1	46.73	ppb	1.88	46.93	0.43	20	
66	Zn	72	1	77.14	ppb	1.28	78.62	1.90	20	
75	As	72	1	43.27	ppb	0.41	43.66	0.90	20	
78	Se	72	1	41.14	ppb	1.96	40.98	0.39	20	
95	Mo	72	1	36.92	ppb	1.54	36.69	0.62	20	
107	Ag	115	1	37.80	ppb	1.79	38.00	0.53	20	
111	Cd	115	1	38.89	ppb	0.97	38.99	0.26	20	
118	Sn	115	1	1.63	ppb	3.82	2.04	22.84	20	
121	Sb	115	1	5.31	ppb	0.33	5.50	3.61	20	
137	Ba	115	1	58.38	ppb	1.61	58.79	0.70	20	
205	Tl	165	1	39.09	ppb	0.72	39.05	0.10	20	
208	Pb	165	1	74.32	ppb	1.23	74.87	0.74	20	
232	Th	165	1	45.53	ppb	0.10	45.26	0.59	20	
238	U	165	1	40.86	ppb	1.29	40.57	0.71	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	544026	1.37	534602	101.8	30 - 120	
45	Sc	1	2724379	0.68	2551677	106.8	30 - 120	
72	Ge	1	1641478	1.68	1553005	105.7	30 - 120	
115	In	1	4531186	1.55	4260602	106.4	30 - 120	
165	Ho	1	9246246	0.46	8806612	105.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\059SMPL.D\059SMPL.D#
Date Acquired: Nov 8 2011 09:43 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-54-g
Misc Info:
Vial Number: 3402
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.38	0.38	ppb	31.17	3600	
51 V	72	1	26.34	26.34	ppb	1.51	3600	
52 Cr	72	1	11.60	11.60	ppb	1.87	3600	
55 Mn	72	1	241.90	241.90	ppb	2.18	18000	
59 Co	72	1	1.52	1.52	ppb	1.98	3600	
60 Ni	72	1	5.31	5.31	ppb	0.39	3600	
63 Cu	72	1	7.39	7.39	ppb	0.28	3600	
66 Zn	72	1	35.53	35.53	ppb	0.59	3600	
75 As	72	1	5.42	5.42	ppb	0.90	3600	
78 Se	72	1	1.62	1.62	ppb	17.59	3600	
95 Mo	72	1	1.22	1.22	ppb	5.61	3600	
107 Ag	115	1	0.09	0.09	ppb	7.05	3600	
111 Cd	115	1	0.16	0.16	ppb	3.08	3600	
118 Sn	115	1	0.09	0.09	ppb	15.22	3600	
121 Sb	115	1	0.06	0.06	ppb	5.62	3600	
137 Ba	115	1	17.55	17.55	ppb	1.89	3600	
205 Tl	165	1	0.18	0.18	ppb	1.64	3600	
208 Pb	165	1	32.40	32.40	ppb	0.69	3600	
232 Th	165	1	10.06	10.06	ppb	0.08	1000	
238 U	165	1	2.18	2.18	ppb	0.35	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	538343	1.20	534602	100.7	30 - 120	
45 Sc	1	2733973	1.76	2551677	107.1	30 - 120	
72 Ge	1	1680114	0.56	1553005	108.2	30 - 120	
115 In	1	4507796	0.46	4260602	105.8	30 - 120	
165 Ho	1	9220765	0.36	8806612	104.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\060_CCV.D\060_CCV.D#
Date Acquired:	Nov 8 2011 09:46 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	51.90	ppb	1.89	50	103.8	90 - 110	
51	V	72	1	50.08	ppb	2.77	50	100.2	90 - 110	
52	Cr	72	1	49.42	ppb	1.19	50	98.8	90 - 110	
55	Mn	72	1	49.97	ppb	2.48	50	99.9	90 - 110	
59	Co	72	1	49.73	ppb	2.37	50	99.5	90 - 110	
60	Ni	72	1	49.27	ppb	2.28	50	98.5	90 - 110	
63	Cu	72	1	50.17	ppb	1.59	50	100.3	90 - 110	
66	Zn	72	1	49.46	ppb	1.06	50	98.9	90 - 110	
75	As	72	1	50.34	ppb	2.03	50	100.7	90 - 110	
78	Se	72	1	51.15	ppb	3.72	50	102.3	90 - 110	
95	Mo	72	1	49.47	ppb	0.99	50	98.9	90 - 110	
107	Ag	115	1	51.19	ppb	1.02	50	102.4	90 - 110	
111	Cd	115	1	49.63	ppb	0.81	50	99.3	90 - 110	
118	Sn	115	1	48.10	ppb	0.37	50	96.2	90 - 110	
121	Sb	115	1	49.16	ppb	0.29	50	98.3	90 - 110	
137	Ba	115	1	50.55	ppb	1.63	50	101.1	90 - 110	
205	Tl	165	1	50.83	ppb	0.79	50	101.7	90 - 110	
208	Pb	165	1	49.98	ppb	1.60	50	100.0	90 - 110	
232	Th	165	1	50.23	ppb	2.02	50	100.5	90 - 110	
238	U	165	1	49.51	ppb	1.36	50	99.0	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	531490	1.61	534602	99.4	30 - 120	
45	Sc	1	2720650	0.41	2551677	106.6	30 - 120	
72	Ge	1	1677146	1.12	1553005	108.0	30 - 120	
115	In	1	4587452	1.77	4260602	107.7	30 - 120	
165	Ho	1	9090439	0.15	8806612	103.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\061_CCB.D\061_CCB.D#
Date Acquired:	Nov 8 2011 09:49 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	171.28	1.00	
51	V	72	1	0.019	ppb	17.02	1.00	
52	Cr	72	1	-0.001	ppb	1842.10	1.00	
55	Mn	72	1	0.023	ppb	4.01	1.00	
59	Co	72	1	0.009	ppb	11.36	1.00	
60	Ni	72	1	-0.006	ppb	162.91	1.00	
63	Cu	72	1	-0.004	ppb	79.55	1.00	
66	Zn	72	1	-0.013	ppb	35.69	1.00	
75	As	72	1	0.013	ppb	45.48	1.00	
78	Se	72	1	0.314	ppb	48.34	1.00	
95	Mo	72	1	0.015	ppb	47.27	1.00	
107	Ag	115	1	0.009	ppb	36.52	1.00	
111	Cd	115	1	0.010	ppb	18.33	1.00	
118	Sn	115	1	0.008	ppb	25.10	1.00	
121	Sb	115	1	0.016	ppb	17.13	1.00	
137	Ba	115	1	0.015	ppb	45.74	1.00	
205	Tl	165	1	0.022	ppb	9.53	1.00	
208	Pb	165	1	0.010	ppb	13.49	1.00	
232	Th	165	1	0.044	ppb	6.52	1.00	
238	U	165	1	0.013	ppb	7.73	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	534672	0.88	534602	100.0	30 - 120	
45	Sc	1	2728251	2.66	2551677	106.9	30 - 120	
72	Ge	1	1683557	0.56	1553005	108.4	30 - 120	
115	In	1	4564875	1.27	4260602	107.1	30 - 120	
165	Ho	1	9258427	0.61	8806612	105.1	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\062WASH.D\062WASH.D#
Date Acquired: Nov 8 2011 09:52 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.005 ppb	12.15	1.30	
51	V	72	1	5.059 ppb	1.99	6.50	
52	Cr	72	1	2.196 ppb	1.46	2.60	
55	Mn	72	1	1.271 ppb	2.50	1.30	
59	Co	72	1	1.110 ppb	1.52	1.30	
60	Ni	72	1	2.275 ppb	2.66	2.60	
63	Cu	72	1	2.182 ppb	1.81	2.60	
66	Zn	72	1	10.410 ppb	1.43	13.00	
75	As	72	1	5.285 ppb	0.46	6.50	
78	Se	72	1	5.606 ppb	9.21	6.50	
95	Mo	72	1	2.112 ppb	1.90	2.60	
107	Ag	115	1	5.002 ppb	1.35	6.50	
111	Cd	115	1	1.073 ppb	3.55	1.30	
118	Sn	115	1	9.811 ppb	0.44	13.00	
121	Sb	115	1	2.067 ppb	1.36	2.60	
137	Ba	115	1	1.089 ppb	1.95	1.30	
205	Tl	165	1	1.114 ppb	1.00	1.30	
208	Pb	165	1	1.095 ppb	0.61	1.30	
232	Th	165	1	2.078 ppb	1.17	2.60	
238	U	165	1	1.057 ppb	1.09	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	529070	1.28	534602	99.0	30 - 120	
45	Sc	1	2725195	0.49	2551677	106.8	30 - 120	
72	Ge	1	1680008	1.59	1553005	108.2	30 - 120	
115	In	1	4652510	1.19	4260602	109.2	30 - 120	
165	Ho	1	9116979	0.24	8806612	103.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\063SMPL.D\063SMPL.D#
Date Acquired:	Nov 8 2011 09:55 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21902-a-55-g
Misc Info:	
Vial Number:	3403
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.38	0.38	ppb	11.17	3600	
51	V	72	1	27.60	27.60	ppb	0.98	3600	
52	Cr	72	1	11.87	11.87	ppb	0.72	3600	
55	Mn	72	1	249.50	249.50	ppb	0.26	18000	
59	Co	72	1	1.54	1.54	ppb	0.64	3600	
60	Ni	72	1	5.52	5.52	ppb	1.39	3600	
63	Cu	72	1	8.07	8.07	ppb	1.11	3600	
66	Zn	72	1	37.65	37.65	ppb	0.76	3600	
75	As	72	1	5.77	5.77	ppb	1.42	3600	
78	Se	72	1	2.05	2.05	ppb	13.54	3600	
95	Mo	72	1	1.30	1.30	ppb	2.57	3600	
107	Ag	115	1	0.10	0.10	ppb	5.78	3600	
111	Cd	115	1	0.13	0.13	ppb	7.20	3600	
118	Sn	115	1	0.09	0.09	ppb	18.08	3600	
121	Sb	115	1	0.07	0.07	ppb	3.86	3600	
137	Ba	115	1	16.94	16.94	ppb	0.70	3600	
205	Tl	165	1	0.17	0.17	ppb	2.19	3600	
208	Pb	165	1	37.21	37.21	ppb	2.11	3600	
232	Th	165	1	11.23	11.23	ppb	2.24	1000	
238	U	165	1	2.35	2.35	ppb	2.86	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	535606	0.98	534602	100.2	30 - 120	
45	Sc	1	2726916	0.84	2551677	106.9	30 - 120	
72	Ge	1	1666996	1.03	1553005	107.3	30 - 120	
115	In	1	4523494	0.86	4260602	106.2	30 - 120	
165	Ho	1	9168658	1.25	8806612	104.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\064SMPL.D\064SMPL.D#
Date Acquired: Nov 8 2011 09:57 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-56-g
Misc Info:
Vial Number: 3404
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9 Be	6	1	0.25	0.25	ppb	17.95	3600	
51 V	72	1	30.74	30.74	ppb	1.08	3600	
52 Cr	72	1	11.74	11.74	ppb	0.19	3600	
55 Mn	72	1	159.10	159.10	ppb	0.81	18000	
59 Co	72	1	1.33	1.33	ppb	1.99	3600	
60 Ni	72	1	6.23	6.23	ppb	0.82	3600	
63 Cu	72	1	11.52	11.52	ppb	1.52	3600	
66 Zn	72	1	36.58	36.58	ppb	1.23	3600	
75 As	72	1	6.35	6.35	ppb	0.36	3600	
78 Se	72	1	2.33	2.33	ppb	21.88	3600	
95 Mo	72	1	1.93	1.93	ppb	1.52	3600	
107 Ag	115	1	0.14	0.14	ppb	4.01	3600	
111 Cd	115	1	0.21	0.21	ppb	15.57	3600	
118 Sn	115	1	0.37	0.37	ppb	72.96	3600	
121 Sb	115	1	0.18	0.18	ppb	9.08	3600	
137 Ba	115	1	20.55	20.55	ppb	0.82	3600	
205 Tl	165	1	0.18	0.18	ppb	1.49	3600	
208 Pb	165	1	59.92	59.92	ppb	0.64	3600	
232 Th	165	1	12.66	12.66	ppb	2.14	1000	
238 U	165	1	3.17	3.17	ppb	1.69	3600	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	538397	0.47	534602	100.7	30 - 120	
45 Sc	1	2736290	0.11	2551677	107.2	30 - 120	
72 Ge	1	1668816	0.77	1553005	107.5	30 - 120	
115 In	1	4530078	0.82	4260602	106.3	30 - 120	
165 Ho	1	9231707	0.84	8806612	104.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\065SMPL.D\065SMPL.D#
Date Acquired: Nov 8 2011 10:00 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-57-g
Misc Info:
Vial Number: 3405
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.24	0.24	ppb	34.39	3600	
51	V	72	1	28.20	28.20	ppb	2.04	3600	
52	Cr	72	1	10.71	10.71	ppb	0.92	3600	
55	Mn	72	1	176.50	176.50	ppb	1.55	18000	
59	Co	72	1	1.35	1.35	ppb	0.60	3600	
60	Ni	72	1	6.08	6.08	ppb	2.25	3600	
63	Cu	72	1	13.17	13.17	ppb	0.84	3600	
66	Zn	72	1	41.51	41.51	ppb	1.35	3600	
75	As	72	1	5.70	5.70	ppb	1.77	3600	
78	Se	72	1	1.98	1.98	ppb	14.56	3600	
95	Mo	72	1	2.18	2.18	ppb	2.60	3600	
107	Ag	115	1	0.14	0.14	ppb	0.12	3600	
111	Cd	115	1	0.19	0.19	ppb	12.18	3600	
118	Sn	115	1	0.20	0.20	ppb	9.34	3600	
121	Sb	115	1	0.20	0.20	ppb	3.18	3600	
137	Ba	115	1	20.71	20.71	ppb	0.85	3600	
205	Tl	165	1	0.15	0.15	ppb	5.07	3600	
208	Pb	165	1	61.77	61.77	ppb	1.42	3600	
232	Th	165	1	9.80	9.80	ppb	1.30	1000	
238	U	165	1	2.92	2.92	ppb	2.13	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	532527	0.87	534602	99.6	30 - 120	
45	Sc	1	2710595	0.66	2551677	106.2	30 - 120	
72	Ge	1	1647001	0.46	1553005	106.1	30 - 120	
115	In	1	4504034	0.79	4260602	105.7	30 - 120	
165	Ho	1	9165460	1.21	8806612	104.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\066SMPL.D\066SMPL.D#
Date Acquired: Nov 8 2011 10:03 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21902-a-58-i
Misc Info:
Vial Number: 3406
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.31	0.31	ppb	12.92	3600	
51	V	72	1	31.76	31.76	ppb	3.75	3600	
52	Cr	72	1	13.83	13.83	ppb	2.63	3600	
55	Mn	72	1	272.00	272.00	ppb	2.52	18000	
59	Co	72	1	1.76	1.76	ppb	2.26	3600	
60	Ni	72	1	8.04	8.04	ppb	4.69	3600	
63	Cu	72	1	14.91	14.91	ppb	3.50	3600	
66	Zn	72	1	49.48	49.48	ppb	2.97	3600	
75	As	72	1	6.59	6.59	ppb	3.67	3600	
78	Se	72	1	2.34	2.34	ppb	18.67	3600	
95	Mo	72	1	2.29	2.29	ppb	4.25	3600	
107	Ag	115	1	0.13	0.13	ppb	5.63	3600	
111	Cd	115	1	0.27	0.27	ppb	4.07	3600	
118	Sn	115	1	0.30	0.30	ppb	15.46	3600	
121	Sb	115	1	0.22	0.22	ppb	5.32	3600	
137	Ba	115	1	25.30	25.30	ppb	2.12	3600	
205	Tl	165	1	0.19	0.19	ppb	6.00	3600	
208	Pb	165	1	64.37	64.37	ppb	4.15	3600	
232	Th	165	1	11.88	11.88	ppb	3.77	1000	
238	U	165	1	3.29	3.29	ppb	3.25	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	519455	0.84	534602	97.2	30 - 120	
45	Sc	1	2555631	3.71	2551677	100.2	30 - 120	
72	Ge	1	1590045	2.86	1553005	102.4	30 - 120	
115	In	1	4340321	1.86	4260602	101.9	30 - 120	
165	Ho	1	8742514	3.50	8806612	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\067_CCV.D\067_CCV.D#
Date Acquired: Nov 8 2011 10:06 pm
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.35	ppb	1.46	50	104.7	90 - 110	
51	V	72	1	51.30	ppb	2.47	50	102.6	90 - 110	
52	Cr	72	1	50.12	ppb	0.25	50	100.2	90 - 110	
55	Mn	72	1	50.57	ppb	1.92	50	101.1	90 - 110	
59	Co	72	1	50.55	ppb	1.98	50	101.1	90 - 110	
60	Ni	72	1	50.15	ppb	1.61	50	100.3	90 - 110	
63	Cu	72	1	50.48	ppb	1.12	50	101.0	90 - 110	
66	Zn	72	1	49.59	ppb	1.51	50	99.2	90 - 110	
75	As	72	1	50.42	ppb	1.17	50	100.8	90 - 110	
78	Se	72	1	53.19	ppb	1.52	50	106.4	90 - 110	
95	Mo	72	1	50.15	ppb	1.62	50	100.3	90 - 110	
107	Ag	115	1	50.16	ppb	1.46	50	100.3	90 - 110	
111	Cd	115	1	49.57	ppb	0.64	50	99.1	90 - 110	
118	Sn	115	1	47.96	ppb	0.62	50	95.9	90 - 110	
121	Sb	115	1	48.99	ppb	0.34	50	98.0	90 - 110	
137	Ba	115	1	50.23	ppb	0.70	50	100.5	90 - 110	
205	Tl	165	1	51.15	ppb	1.09	50	102.3	90 - 110	
208	Pb	165	1	49.39	ppb	0.97	50	98.8	90 - 110	
232	Th	165	1	50.63	ppb	2.61	50	101.3	90 - 110	
238	U	165	1	49.28	ppb	1.19	50	98.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	525088	0.94	534602	98.2	30 - 120	
45	Sc	1	2667605	0.88	2551677	104.5	30 - 120	
72	Ge	1	1653878	2.35	1553005	106.5	30 - 120	
115	In	1	4579318	0.23	4260602	107.5	30 - 120	
165	Ho	1	9137660	1.06	8806612	103.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\068_CCB.D\068_CCB.D#
Date Acquired:	Nov 8 2011 10:09 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.013	ppb	114.10	1.00	
51	V	72	1	0.023	ppb	30.07	1.00	
52	Cr	72	1	0.001	ppb	1325.60	1.00	
55	Mn	72	1	0.024	ppb	24.42	1.00	
59	Co	72	1	0.007	ppb	20.30	1.00	
60	Ni	72	1	-0.020	ppb	34.68	1.00	
63	Cu	72	1	0.001	ppb	1862.70	1.00	
66	Zn	72	1	-0.015	ppb	39.43	1.00	
75	As	72	1	0.006	ppb	164.65	1.00	
78	Se	72	1	-0.068	ppb	76.47	1.00	
95	Mo	72	1	0.009	ppb	25.73	1.00	
107	Ag	115	1	0.008	ppb	17.52	1.00	
111	Cd	115	1	0.005	ppb	77.69	1.00	
118	Sn	115	1	-0.001	ppb	859.90	1.00	
121	Sb	115	1	0.015	ppb	17.51	1.00	
137	Ba	115	1	0.007	ppb	36.28	1.00	
205	Tl	165	1	0.022	ppb	8.90	1.00	
208	Pb	165	1	0.011	ppb	5.40	1.00	
232	Th	165	1	0.045	ppb	4.36	1.00	
238	U	165	1	0.010	ppb	10.49	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	522804	1.32	534602	97.8	30 - 120	
45	Sc	1	2703329	1.30	2551677	105.9	30 - 120	
72	Ge	1	1681604	1.12	1553005	108.3	30 - 120	
115	In	1	4563659	0.68	4260602	107.1	30 - 120	
165	Ho	1	9166635	1.14	8806612	104.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\069WASH.D\069WASH.D#
Date Acquired: Nov 8 2011 10:12 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	1.142 ppb	10.23	1.30	
51 V	72	1	5.003 ppb	0.51	6.50	
52 Cr	72	1	2.171 ppb	0.19	2.60	
55 Mn	72	1	1.254 ppb	2.69	1.30	
59 Co	72	1	1.098 ppb	2.24	1.30	
60 Ni	72	1	2.266 ppb	3.12	2.60	
63 Cu	72	1	2.194 ppb	1.79	2.60	
66 Zn	72	1	10.540 ppb	0.93	13.00	
75 As	72	1	5.272 ppb	1.16	6.50	
78 Se	72	1	5.774 ppb	8.31	6.50	
95 Mo	72	1	2.172 ppb	3.30	2.60	
107 Ag	115	1	5.109 ppb	1.35	6.50	
111 Cd	115	1	1.094 ppb	3.02	1.30	
118 Sn	115	1	9.866 ppb	1.35	13.00	
121 Sb	115	1	2.075 ppb	3.87	2.60	
137 Ba	115	1	1.125 ppb	4.75	1.30	
205 Tl	165	1	1.107 ppb	1.67	1.30	
208 Pb	165	1	1.080 ppb	1.52	1.30	
232 Th	165	1	2.055 ppb	1.94	2.60	
238 U	165	1	1.059 ppb	1.15	1.30	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	524300	0.82	534602	98.1	30 - 120	
45 Sc	1	2735479	1.05	2551677	107.2	30 - 120	
72 Ge	1	1668615	1.19	1553005	107.4	30 - 120	
115 In	1	4582023	1.56	4260602	107.5	30 - 120	
165 Ho	1	9204999	0.81	8806612	104.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\070_BLK.D\070_BLK.D#
Date Acquired: Nov 8 2011 10:15 pm
Operator: LRD
Sample Name: mb 280-94817/1-a
Misc Info: BLANK 94817 Soil DoD4/6020A
Vial Number: 2401
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9 Be	6	1	0.008 ppb	148.48	2.00	
51 V	72	1	0.018 ppb	201.01	2.00	
52 Cr	72	1	0.113 ppb	7.09	2.00	
55 Mn	72	1	0.584 ppb	7.63	2.00	
59 Co	72	1	0.005 ppb	13.70	2.00	
60 Ni	72	1	0.047 ppb	9.78	2.00	
63 Cu	72	1	0.224 ppb	7.72	2.00	
66 Zn	72	1	0.334 ppb	3.12	2.00	
75 As	72	1	0.009 ppb	124.04	2.00	
78 Se	72	1	0.309 ppb	44.72	2.00	
95 Mo	72	1	0.005 ppb	123.37	2.00	
107 Ag	115	1	0.007 ppb	21.61	2.00	
111 Cd	115	1	0.005 ppb	55.80	2.00	
118 Sn	115	1	0.085 ppb	4.88	2.00	
121 Sb	115	1	0.007 ppb	8.28	2.00	
137 Ba	115	1	0.064 ppb	11.74	2.00	
205 Tl	165	1	0.008 ppb	14.73	2.00	
208 Pb	165	1	0.019 ppb	6.75	2.00	
232 Th	165	1	0.022 ppb	9.80	2.00	
238 U	165	1	0.007 ppb	6.80	2.00	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	532108	1.12	534602	99.5	30 - 120	
45 Sc	1	2803492	0.48	2551677	109.9	30 - 120	
72 Ge	1	1691338	0.90	1553005	108.9	30 - 120	
115 In	1	4598398	1.83	4260602	107.9	30 - 120	
165 Ho	1	9247036	1.21	8806612	105.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\071_LCS.D\071_LCS.D#
Date Acquired: Nov 8 2011 10:18 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: lcs 280-94817/2-a
Misc Info: LCS
Vial Number: 2402
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: LCS
Prep Dil. Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9 Be	6	1	43.46	2.06	40	108.7	80 - 120	
51 V	72	1	41.78	2.14	40	104.5	80 - 120	
52 Cr	72	1	41.82	2.31	40	104.6	80 - 120	
55 Mn	72	1	42.59	1.07	40	106.5	80 - 120	
59 Co	72	1	42.79	0.28	40	107.0	80 - 120	
60 Ni	72	1	41.81	0.70	40	104.5	80 - 120	
63 Cu	72	1	41.28	0.55	40	103.2	80 - 120	
66 Zn	72	1	39.99	0.76	40	100.0	80 - 120	
75 As	72	1	41.70	0.67	40	104.3	80 - 120	
78 Se	72	1	42.04	1.81	40	105.1	80 - 120	
95 Mo	72	1	41.00	0.34	40	102.5	80 - 120	
107 Ag	115	1	42.77	3.35	40	106.9	80 - 120	
111 Cd	115	1	41.15	1.90	40	102.9	80 - 120	
118 Sn	115	1	40.19	1.10	40	100.5	80 - 120	
121 Sb	115	1	40.35	1.89	40	100.9	80 - 120	
137 Ba	115	1	42.84	2.15	40	107.1	80 - 120	
205 Tl	165	1	42.20	0.80	40	105.5	80 - 120	
208 Pb	165	1	41.23	0.60	40	103.1	80 - 120	
232 Th	165	1	40.63	1.68	40	101.6	80 - 120	
238 U	165	1	41.30	0.31	40	103.3	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	532577	1.07	534602	99.6	30 - 120	
45 Sc	1	2754657	0.46	2551677	108.0	30 - 120	
72 Ge	1	1695215	0.28	1553005	109.2	30 - 120	
115 In	1	4612730	2.13	4260602	108.3	30 - 120	
165 Ho	1	9271884	0.88	8806612	105.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\072SMPL.D\072SMPL.D#
Date Acquired:	Nov 8 2011 10:21 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-18-c
Misc Info:	
Vial Number:	2403
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.22	0.22	ppb	12.72	3600	
51	V	72	1	15.80	15.80	ppb	1.34	3600	
52	Cr	72	1	10.20	10.20	ppb	0.94	3600	
55	Mn	72	1	161.00	161.00	ppb	0.94	18000	
59	Co	72	1	2.85	2.85	ppb	0.98	3600	
60	Ni	72	1	5.79	5.79	ppb	0.98	3600	
63	Cu	72	1	9.21	9.21	ppb	0.76	3600	
66	Zn	72	1	25.10	25.10	ppb	0.41	3600	
75	As	72	1	4.38	4.38	ppb	0.33	3600	
78	Se	72	1	1.15	1.15	ppb	47.70	3600	
95	Mo	72	1	0.43	0.43	ppb	1.85	3600	
107	Ag	115	1	0.06	0.06	ppb	3.69	3600	
111	Cd	115	1	0.11	0.11	ppb	15.50	3600	
118	Sn	115	1	0.12	0.12	ppb	5.61	3600	
121	Sb	115	1	0.04	0.04	ppb	5.45	3600	
137	Ba	115	1	22.20	22.20	ppb	0.82	3600	
205	Tl	165	1	0.18	0.18	ppb	2.27	3600	
208	Pb	165	1	17.58	17.58	ppb	1.40	3600	
232	Th	165	1	5.87	5.87	ppb	1.32	1000	
238	U	165	1	1.16	1.16	ppb	0.58	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	533472	0.76	534602	99.8	30 - 120	
45	Sc	1	2724594	1.84	2551677	106.8	30 - 120	
72	Ge	1	1679172	0.06	1553005	108.1	30 - 120	
115	In	1	4605314	0.65	4260602	108.1	30 - 120	
165	Ho	1	9313145	0.99	8806612	105.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\073SMPL.D\073SMPL.D#
Date Acquired:	Nov 8 2011 10:23 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-19-e
Misc Info:	
Vial Number:	2404
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.38	0.38	ppb	15.99	3600	
51	V	72	1	18.34	18.34	ppb	1.50	3600	
52	Cr	72	1	12.57	12.57	ppb	1.48	3600	
55	Mn	72	1	230.30	230.30	ppb	0.87	18000	
59	Co	72	1	4.11	4.11	ppb	1.65	3600	
60	Ni	72	1	7.94	7.94	ppb	0.28	3600	
63	Cu	72	1	6.47	6.47	ppb	0.46	3600	
66	Zn	72	1	19.80	19.80	ppb	0.40	3600	
75	As	72	1	4.44	4.44	ppb	0.68	3600	
78	Se	72	1	1.43	1.43	ppb	34.08	3600	
95	Mo	72	1	0.42	0.42	ppb	2.94	3600	
107	Ag	115	1	0.03	0.03	ppb	16.75	3600	
111	Cd	115	1	0.08	0.08	ppb	10.63	3600	
118	Sn	115	1	0.10	0.10	ppb	10.26	3600	
121	Sb	115	1	0.02	0.02	ppb	9.58	3600	
137	Ba	115	1	17.82	17.82	ppb	0.81	3600	
205	Tl	165	1	0.17	0.17	ppb	1.73	3600	
208	Pb	165	1	8.10	8.10	ppb	0.34	3600	
232	Th	165	1	9.00	9.00	ppb	0.41	1000	
238	U	165	1	1.53	1.53	ppb	0.20	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	536936	0.37	534602	100.4	30 - 120	
45	Sc	1	2776884	1.16	2551677	108.8	30 - 120	
72	Ge	1	1692157	0.46	1553005	109.0	30 - 120	
115	In	1	4549703	1.23	4260602	106.8	30 - 120	
165	Ho	1	9157895	0.64	8806612	104.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\074SMPL.D\074SMPL.D#
Date Acquired:	Nov 8 2011 10:26 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22259-a-1-d
Misc Info:	
Vial Number:	2405
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.58	1.58	ppb	4.12	3600	
51	V	72	1	147.90	147.90	ppb	0.67	3600	
52	Cr	72	1	101.50	101.50	ppb	0.48	3600	
55	Mn	72	1	249.90	249.90	ppb	0.14	18000	
59	Co	72	1	22.47	22.47	ppb	0.85	3600	
60	Ni	72	1	55.42	55.42	ppb	0.50	3600	
63	Cu	72	1	40.61	40.61	ppb	0.44	3600	
66	Zn	72	1	60.68	60.68	ppb	0.03	3600	
75	As	72	1	9.01	9.01	ppb	0.77	3600	
78	Se	72	1	1.68	1.68	ppb	25.12	3600	
95	Mo	72	1	0.21	0.21	ppb	1.52	3600	
107	Ag	115	1	0.06	0.06	ppb	11.91	3600	
111	Cd	115	1	0.18	0.18	ppb	13.35	3600	
118	Sn	115	1	0.11	0.11	ppb	6.83	3600	
121	Sb	115	1	0.02	0.02	ppb	10.41	3600	
137	Ba	115	1	422.50	422.50	ppb	1.06	3600	
205	Tl	165	1	0.30	0.30	ppb	1.90	3600	
208	Pb	165	1	11.80	11.80	ppb	0.76	3600	
232	Th	165	1	9.26	9.26	ppb	0.61	1000	
238	U	165	1	1.18	1.18	ppb	0.90	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	519163	0.47	534602	97.1	30 - 120	
45	Sc	1	2864323	0.33	2551677	112.3	30 - 120	
72	Ge	1	1642625	0.89	1553005	105.8	30 - 120	
115	In	1	4417330	1.00	4260602	103.7	30 - 120	
165	Ho	1	8999995	1.16	8806612	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\075SMPL.D\075SMPL.D#
Date Acquired:	Nov 8 2011 10:29 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22259-a-2-d
Misc Info:	
Vial Number:	2406
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.69	1.69	ppb	10.23	3600	
51	V	72	1	148.40	148.40	ppb	0.73	3600	
52	Cr	72	1	84.58	84.58	ppb	1.15	3600	
55	Mn	72	1	305.60	305.60	ppb	1.34	18000	
59	Co	72	1	24.94	24.94	ppb	0.12	3600	
60	Ni	72	1	47.79	47.79	ppb	0.35	3600	
63	Cu	72	1	55.90	55.90	ppb	1.70	3600	
66	Zn	72	1	69.81	69.81	ppb	0.87	3600	
75	As	72	1	9.39	9.39	ppb	2.11	3600	
78	Se	72	1	1.95	1.95	ppb	15.92	3600	
95	Mo	72	1	0.20	0.20	ppb	4.29	3600	
107	Ag	115	1	0.13	0.13	ppb	4.11	3600	
111	Cd	115	1	0.22	0.22	ppb	6.27	3600	
118	Sn	115	1	0.10	0.10	ppb	13.34	3600	
121	Sb	115	1	0.02	0.02	ppb	14.25	3600	
137	Ba	115	1	415.20	415.20	ppb	2.53	3600	
205	Tl	165	1	0.21	0.21	ppb	1.15	3600	
208	Pb	165	1	9.71	9.71	ppb	1.07	3600	
232	Th	165	1	10.34	10.34	ppb	1.86	1000	
238	U	165	1	1.25	1.25	ppb	0.90	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	512418	0.42	534602	95.9	30 - 120	
45	Sc	1	2861566	1.34	2551677	112.1	30 - 120	
72	Ge	1	1636124	0.86	1553005	105.4	30 - 120	
115	In	1	4428067	1.03	4260602	103.9	30 - 120	
165	Ho	1	8912784	1.60	8806612	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\076SMPL.D\076SMPL.D#
Date Acquired: Nov 8 2011 10:32 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-1-e
Misc Info:
Vial Number: 2407
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.73	1.73	ppb	19.47	3600	
51	V	72	1	189.40	189.40	ppb	1.54	3600	
52	Cr	72	1	51.25	51.25	ppb	2.32	3600	
55	Mn	72	1	673.50	673.50	ppb	1.98	18000	
59	Co	72	1	21.91	21.91	ppb	0.70	3600	
60	Ni	72	1	25.06	25.06	ppb	0.40	3600	
63	Cu	72	1	33.46	33.46	ppb	0.95	3600	
66	Zn	72	1	152.50	152.50	ppb	0.53	3600	
75	As	72	1	1.92	1.92	ppb	4.97	3600	
78	Se	72	1	2.45	2.45	ppb	26.64	3600	
95	Mo	72	1	0.21	0.21	ppb	4.32	3600	
107	Ag	115	1	0.05	0.05	ppb	6.62	3600	
111	Cd	115	1	0.55	0.55	ppb	6.15	3600	
118	Sn	115	1	0.10	0.10	ppb	13.35	3600	
121	Sb	115	1	0.01	0.01	ppb	12.68	3600	
137	Ba	115	1	116.80	116.80	ppb	1.83	3600	
205	Tl	165	1	0.35	0.35	ppb	2.95	3600	
208	Pb	165	1	12.98	12.98	ppb	2.37	3600	
232	Th	165	1	10.42	10.42	ppb	2.53	1000	
238	U	165	1	4.41	4.41	ppb	3.49	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496268	1.37	534602	92.8	30 - 120	
45	Sc	1	2861581	0.47	2551677	112.1	30 - 120	
72	Ge	1	1608533	0.56	1553005	103.6	30 - 120	
115	In	1	4409308	1.29	4260602	103.5	30 - 120	
165	Ho	1	8990252	1.88	8806612	102.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\077_CCV.D\077_CCV.D#
Date Acquired:	Nov 8 2011 10:35 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.30	ppb	3.00	50	104.6	90 - 110	
51	V	72	1	50.63	ppb	1.05	50	101.3	90 - 110	
52	Cr	72	1	49.92	ppb	1.92	50	99.8	90 - 110	
55	Mn	72	1	50.53	ppb	0.94	50	101.1	90 - 110	
59	Co	72	1	50.26	ppb	0.84	50	100.5	90 - 110	
60	Ni	72	1	49.86	ppb	0.86	50	99.7	90 - 110	
63	Cu	72	1	49.45	ppb	0.60	50	98.9	90 - 110	
66	Zn	72	1	49.50	ppb	0.05	50	99.0	90 - 110	
75	As	72	1	50.59	ppb	0.17	50	101.2	90 - 110	
78	Se	72	1	51.36	ppb	0.94	50	102.7	90 - 110	
95	Mo	72	1	50.52	ppb	0.74	50	101.0	90 - 110	
107	Ag	115	1	49.87	ppb	1.85	50	99.7	90 - 110	
111	Cd	115	1	49.10	ppb	1.27	50	98.2	90 - 110	
118	Sn	115	1	48.10	ppb	1.62	50	96.2	90 - 110	
121	Sb	115	1	48.94	ppb	1.36	50	97.9	90 - 110	
137	Ba	115	1	50.30	ppb	0.91	50	100.6	90 - 110	
205	Tl	165	1	50.88	ppb	1.73	50	101.8	90 - 110	
208	Pb	165	1	48.76	ppb	1.81	50	97.5	90 - 110	
232	Th	165	1	49.50	ppb	2.68	50	99.0	90 - 110	
238	U	165	1	48.81	ppb	2.57	50	97.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	527571	1.71	534602	98.7	30 - 120	
45	Sc	1	2682126	0.78	2551677	105.1	30 - 120	
72	Ge	1	1678842	0.98	1553005	108.1	30 - 120	
115	In	1	4648767	0.62	4260602	109.1	30 - 120	
165	Ho	1	9115396	2.08	8806612	103.5	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\078_CCB.D\078_CCB.D#
Date Acquired:	Nov 8 2011 10:38 pm
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	3263.70	1.00	
51	V	72	1	0.020	ppb	60.13	1.00	
52	Cr	72	1	0.005	ppb	288.49	1.00	
55	Mn	72	1	0.035	ppb	19.32	1.00	
59	Co	72	1	0.005	ppb	36.73	1.00	
60	Ni	72	1	-0.013	ppb	18.08	1.00	
63	Cu	72	1	0.003	ppb	117.49	1.00	
66	Zn	72	1	-0.017	ppb	37.14	1.00	
75	As	72	1	0.007	ppb	68.27	1.00	
78	Se	72	1	0.248	ppb	43.84	1.00	
95	Mo	72	1	0.016	ppb	34.11	1.00	
107	Ag	115	1	0.008	ppb	21.49	1.00	
111	Cd	115	1	0.004	ppb	102.24	1.00	
118	Sn	115	1	-0.002	ppb	423.21	1.00	
121	Sb	115	1	0.014	ppb	15.09	1.00	
137	Ba	115	1	0.019	ppb	17.31	1.00	
205	Tl	165	1	0.014	ppb	6.86	1.00	
208	Pb	165	1	0.008	ppb	13.19	1.00	
232	Th	165	1	0.026	ppb	10.42	1.00	
238	U	165	1	0.009	ppb	5.76	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	518011	1.19	534602	96.9	30 - 120	
45	Sc	1	2730304	1.54	2551677	107.0	30 - 120	
72	Ge	1	1683330	0.76	1553005	108.4	30 - 120	
115	In	1	4565417	0.38	4260602	107.2	30 - 120	
165	Ho	1	9039040	0.30	8806612	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\079WASH.D\079WASH.D#
Date Acquired:	Nov 8 2011 10:41 pm
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.193	ppb	13.29	1.30	
51	V	72	1	5.112	ppb	1.97	6.50	
52	Cr	72	1	2.230	ppb	1.65	2.60	
55	Mn	72	1	1.261	ppb	2.47	1.30	
59	Co	72	1	1.104	ppb	2.49	1.30	
60	Ni	72	1	2.293	ppb	5.48	2.60	
63	Cu	72	1	2.207	ppb	1.36	2.60	
66	Zn	72	1	11.080	ppb	9.91	13.00	
75	As	72	1	5.386	ppb	1.01	6.50	
78	Se	72	1	5.298	ppb	1.70	6.50	
95	Mo	72	1	2.223	ppb	0.65	2.60	
107	Ag	115	1	5.103	ppb	1.80	6.50	
111	Cd	115	1	1.086	ppb	1.65	1.30	
118	Sn	115	1	9.972	ppb	1.43	13.00	
121	Sb	115	1	2.110	ppb	1.76	2.60	
137	Ba	115	1	1.151	ppb	1.20	1.30	
205	Tl	165	1	1.110	ppb	0.91	1.30	
208	Pb	165	1	1.091	ppb	1.26	1.30	
232	Th	165	1	2.088	ppb	0.88	2.60	
238	U	165	1	1.053	ppb	1.19	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	525148	1.07	534602	98.2	30 - 120	
45	Sc	1	2696150	1.91	2551677	105.7	30 - 120	
72	Ge	1	1676118	0.97	1553005	107.9	30 - 120	
115	In	1	4567228	1.32	4260602	107.2	30 - 120	
165	Ho	1	9088104	0.56	8806612	103.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\080SMPL.D\080SMPL.D#
Date Acquired: Nov 8 2011 10:44 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-2-a
Misc Info:
Vial Number: 2408
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.39	2.39	ppb	0.64	3600	
51	V	72	1	92.68	92.68	ppb	0.70	3600	
52	Cr	72	1	45.48	45.48	ppb	1.67	3600	
55	Mn	72	1	805.50	805.50	ppb	1.12	18000	
59	Co	72	1	17.20	17.20	ppb	1.51	3600	
60	Ni	72	1	36.12	36.12	ppb	0.80	3600	
63	Cu	72	1	39.00	39.00	ppb	0.53	3600	
66	Zn	72	1	137.60	137.60	ppb	0.05	3600	
75	As	72	1	13.82	13.82	ppb	1.49	3600	
78	Se	72	1	3.55	3.55	ppb	20.47	3600	
95	Mo	72	1	0.69	0.69	ppb	3.79	3600	
107	Ag	115	1	0.28	0.28	ppb	4.22	3600	
111	Cd	115	1	1.04	1.04	ppb	0.14	3600	
118	Sn	115	1	0.10	0.10	ppb	9.60	3600	
121	Sb	115	1	0.03	0.03	ppb	3.21	3600	
137	Ba	115	1	610.30	610.30	ppb	0.71	3600	
205	Tl	165	1	0.70	0.70	ppb	1.13	3600	
208	Pb	165	1	39.42	39.42	ppb	1.23	3600	
232	Th	165	1	25.48	25.48	ppb	2.15	1000	
238	U	165	1	2.78	2.78	ppb	1.42	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	494259	0.81	534602	92.5	30 - 120	
45	Sc	1	2687813	1.43	2551677	105.3	30 - 120	
72	Ge	1	1596870	0.66	1553005	102.8	30 - 120	
115	In	1	4261123	0.96	4260602	100.0	30 - 120	
165	Ho	1	8844994	1.04	8806612	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\081SMPL.D\081SMPL.D#
Date Acquired:	Nov 8 2011 10:47 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-3-a
Misc Info:	
Vial Number:	2409
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.46	2.46	ppb	7.90	3600	
51	V	72	1	42.15	42.15	ppb	1.02	3600	
52	Cr	72	1	23.77	23.77	ppb	0.45	3600	
55	Mn	72	1	353.70	353.70	ppb	0.29	18000	
59	Co	72	1	20.76	20.76	ppb	0.72	3600	
60	Ni	72	1	19.25	19.25	ppb	0.97	3600	
63	Cu	72	1	75.48	75.48	ppb	1.63	3600	
66	Zn	72	1	118.20	118.20	ppb	0.97	3600	
75	As	72	1	1.81	1.81	ppb	1.41	3600	
78	Se	72	1	2.14	2.14	ppb	9.51	3600	
95	Mo	72	1	0.06	0.06	ppb	3.02	3600	
107	Ag	115	1	0.08	0.08	ppb	3.36	3600	
111	Cd	115	1	0.41	0.41	ppb	10.47	3600	
118	Sn	115	1	0.01	0.01	ppb	142.57	3600	
121	Sb	115	1	0.01	0.01	ppb	23.96	3600	
137	Ba	115	1	142.70	142.70	ppb	1.43	3600	
205	Tl	165	1	0.73	0.73	ppb	2.29	3600	
208	Pb	165	1	33.46	33.46	ppb	2.08	3600	
232	Th	165	1	18.13	18.13	ppb	2.19	1000	
238	U	165	1	5.44	5.44	ppb	1.87	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493150	0.63	534602	92.2	30 - 120	
45	Sc	1	2736219	0.79	2551677	107.2	30 - 120	
72	Ge	1	1592061	1.04	1553005	102.5	30 - 120	
115	In	1	4335582	1.53	4260602	101.8	30 - 120	
165	Ho	1	8856900	1.05	8806612	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\082SMPL.D\082SMPL.D#
Date Acquired: Nov 8 2011 10:50 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-4-a
Misc Info:
Vial Number: 2410
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.16	2.16	ppb	6.40	3600	
51	V	72	1	99.82	99.82	ppb	1.94	3600	
52	Cr	72	1	37.14	37.14	ppb	1.93	3600	
55	Mn	72	1	1,228.00	1228.00	ppb	1.02	18000	
59	Co	72	1	18.54	18.54	ppb	1.00	3600	
60	Ni	72	1	28.46	28.46	ppb	0.71	3600	
63	Cu	72	1	34.66	34.66	ppb	0.48	3600	
66	Zn	72	1	116.40	116.40	ppb	0.73	3600	
75	As	72	1	11.48	11.48	ppb	0.07	3600	
78	Se	72	1	3.47	3.47	ppb	3.39	3600	
95	Mo	72	1	0.46	0.46	ppb	4.57	3600	
107	Ag	115	1	0.13	0.13	ppb	5.14	3600	
111	Cd	115	1	0.85	0.85	ppb	4.62	3600	
118	Sn	115	1	0.07	0.07	ppb	14.72	3600	
121	Sb	115	1	0.03	0.03	ppb	7.03	3600	
137	Ba	115	1	923.40	923.40	ppb	1.45	3600	
205	Tl	165	1	0.56	0.56	ppb	0.81	3600	
208	Pb	165	1	26.84	26.84	ppb	0.86	3600	
232	Th	165	1	23.09	23.09	ppb	1.17	1000	
238	U	165	1	2.23	2.23	ppb	0.74	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	478719	0.77	534602	89.5	30 - 120	
45	Sc	1	2642527	0.67	2551677	103.6	30 - 120	
72	Ge	1	1584274	0.57	1553005	102.0	30 - 120	
115	In	1	4251113	1.56	4260602	99.8	30 - 120	
165	Ho	1	8710572	0.24	8806612	98.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\083SMPL.D\083SMPL.D#
Date Acquired:	Nov 8 2011 10:52 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-6-a
Misc Info:	
Vial Number:	2411
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.31	2.31	ppb	3.25	3600	
51	V	72	1	150.70	150.70	ppb	1.37	3600	
52	Cr	72	1	44.11	44.11	ppb	0.39	3600	
55	Mn	72	1	637.20	637.20	ppb	1.58	18000	
59	Co	72	1	32.31	32.31	ppb	0.52	3600	
60	Ni	72	1	34.86	34.86	ppb	1.56	3600	
63	Cu	72	1	49.68	49.68	ppb	1.60	3600	
66	Zn	72	1	167.70	167.70	ppb	0.82	3600	
75	As	72	1	3.41	3.41	ppb	2.20	3600	
78	Se	72	1	2.78	2.78	ppb	6.93	3600	
95	Mo	72	1	0.60	0.60	ppb	2.85	3600	
107	Ag	115	1	0.12	0.12	ppb	13.73	3600	
111	Cd	115	1	0.95	0.95	ppb	0.88	3600	
118	Sn	115	1	0.18	0.18	ppb	3.81	3600	
121	Sb	115	1	0.01	0.01	ppb	8.57	3600	
137	Ba	115	1	100.90	100.90	ppb	1.11	3600	
205	Tl	165	1	0.61	0.61	ppb	1.71	3600	
208	Pb	165	1	18.30	18.30	ppb	1.32	3600	
232	Th	165	1	12.60	12.60	ppb	1.02	1000	
238	U	165	1	3.92	3.92	ppb	1.49	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	486025	0.95	534602	90.9	30 - 120	
45	Sc	1	2735990	0.50	2551677	107.2	30 - 120	
72	Ge	1	1612187	0.81	1553005	103.8	30 - 120	
115	In	1	4281509	0.29	4260602	100.5	30 - 120	
165	Ho	1	8840867	1.45	8806612	100.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\084SMPL.D\084SMPL.D#
Date Acquired:	Nov 8 2011 10:55 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-7-b
Misc Info:	
Vial Number:	2412
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.31	2.31	ppb	4.95	3600	
51	V	72	1	114.60	114.60	ppb	1.09	3600	
52	Cr	72	1	36.53	36.53	ppb	2.88	3600	
55	Mn	72	1	925.60	925.60	ppb	1.28	18000	
59	Co	72	1	23.03	23.03	ppb	1.88	3600	
60	Ni	72	1	28.56	28.56	ppb	2.16	3600	
63	Cu	72	1	40.39	40.39	ppb	1.41	3600	
66	Zn	72	1	125.40	125.40	ppb	1.58	3600	
75	As	72	1	8.01	8.01	ppb	1.68	3600	
78	Se	72	1	2.75	2.75	ppb	15.49	3600	
95	Mo	72	1	1.12	1.12	ppb	1.33	3600	
107	Ag	115	1	0.14	0.14	ppb	2.71	3600	
111	Cd	115	1	0.92	0.92	ppb	0.85	3600	
118	Sn	115	1	0.07	0.07	ppb	17.04	3600	
121	Sb	115	1	0.02	0.02	ppb	2.10	3600	
137	Ba	115	1	893.70	893.70	ppb	0.61	3600	
205	Tl	165	1	0.60	0.60	ppb	1.16	3600	
208	Pb	165	1	24.45	24.45	ppb	1.35	3600	
232	Th	165	1	18.75	18.75	ppb	1.38	1000	
238	U	165	1	4.94	4.94	ppb	1.14	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	471859	1.45	534602	88.3	30 - 120	
45	Sc	1	2607167	0.05	2551677	102.2	30 - 120	
72	Ge	1	1552744	0.76	1553005	100.0	30 - 120	
115	In	1	4179555	0.49	4260602	98.1	30 - 120	
165	Ho	1	8617444	0.81	8806612	97.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\085SMPL.D\085SMPL.D#
Date Acquired: Nov 8 2011 10:58 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-8-a
Misc Info:
Vial Number: 2501
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.94	1.94	ppb	1.61	3600	
51	V	72	1	95.75	95.75	ppb	1.55	3600	
52	Cr	72	1	32.42	32.42	ppb	1.57	3600	
55	Mn	72	1	897.30	897.30	ppb	2.59	18000	
59	Co	72	1	17.14	17.14	ppb	1.94	3600	
60	Ni	72	1	25.59	25.59	ppb	0.95	3600	
63	Cu	72	1	32.66	32.66	ppb	1.36	3600	
66	Zn	72	1	104.80	104.80	ppb	1.44	3600	
75	As	72	1	8.14	8.14	ppb	0.96	3600	
78	Se	72	1	2.72	2.72	ppb	7.73	3600	
95	Mo	72	1	0.62	0.62	ppb	5.61	3600	
107	Ag	115	1	0.13	0.13	ppb	5.39	3600	
111	Cd	115	1	0.96	0.96	ppb	3.52	3600	
118	Sn	115	1	0.07	0.07	ppb	11.73	3600	
121	Sb	115	1	0.03	0.03	ppb	10.63	3600	
137	Ba	115	1	744.50	744.50	ppb	3.43	3600	
205	Tl	165	1	0.53	0.53	ppb	2.55	3600	
208	Pb	165	1	26.41	26.41	ppb	1.86	3600	
232	Th	165	1	17.01	17.01	ppb	1.27	1000	
238	U	165	1	2.03	2.03	ppb	1.83	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	463889	0.22	534602	86.8	30 - 120	
45	Sc	1	2626221	1.48	2551677	102.9	30 - 120	
72	Ge	1	1572958	0.93	1553005	101.3	30 - 120	
115	In	1	4239586	1.05	4260602	99.5	30 - 120	
165	Ho	1	8678145	1.96	8806612	98.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\086SMPL.D\086SMPL.D#		
Date Acquired:	Nov 8 2011 11:01 pm		
Acq. Method:	NormISIS.M	QC Summary:	
Operator:	LRD	Analytes:	Pass
Sample Name:	280-22320-a-10-b	ISTD:	Pass
Misc Info:			
Vial Number:	2502		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 07:04 pm		
Sample Type:	SA		
Dilution Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	1.69	1.69	ppb	8.11	3600	
51	V	72	1	177.10	177.10	ppb	1.79	3600	
52	Cr	72	1	36.71	36.71	ppb	2.06	3600	
55	Mn	72	1	493.00	493.00	ppb	2.05	18000	
59	Co	72	1	23.55	23.55	ppb	2.06	3600	
60	Ni	72	1	18.33	18.33	ppb	2.36	3600	
63	Cu	72	1	28.34	28.34	ppb	1.52	3600	
66	Zn	72	1	121.90	121.90	ppb	1.67	3600	
75	As	72	1	8.28	8.28	ppb	0.61	3600	
78	Se	72	1	2.52	2.52	ppb	16.36	3600	
95	Mo	72	1	0.56	0.56	ppb	8.23	3600	
107	Ag	115	1	0.09	0.09	ppb	1.72	3600	
111	Cd	115	1	0.65	0.65	ppb	6.62	3600	
118	Sn	115	1	0.15	0.15	ppb	5.95	3600	
121	Sb	115	1	0.01	0.01	ppb	19.11	3600	
137	Ba	115	1	2,291.00	2291.00	ppb	1.98	3600	
205	Tl	165	1	0.32	0.32	ppb	2.16	3600	
208	Pb	165	1	13.17	13.17	ppb	1.13	3600	
232	Th	165	1	10.99	10.99	ppb	1.21	1000	
238	U	165	1	1.73	1.73	ppb	0.78	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	468916	0.37	534602	87.7	30 - 120	
45	Sc	1	2724153	1.08	2551677	106.8	30 - 120	
72	Ge	1	1568483	1.79	1553005	101.0	30 - 120	
115	In	1	4203131	1.16	4260602	98.7	30 - 120	
165	Ho	1	8665851	0.30	8806612	98.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\087_CCV.D\087_CCV.D#
Date Acquired:	Nov 8 2011 11:04 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	54.40	ppb	2.66	50	108.8	90 - 110	
51	V	72	1	50.74	ppb	2.29	50	101.5	90 - 110	
52	Cr	72	1	50.01	ppb	1.83	50	100.0	90 - 110	
55	Mn	72	1	51.25	ppb	1.36	50	102.5	90 - 110	
59	Co	72	1	50.97	ppb	1.58	50	101.9	90 - 110	
60	Ni	72	1	50.37	ppb	0.76	50	100.7	90 - 110	
63	Cu	72	1	49.90	ppb	2.38	50	99.8	90 - 110	
66	Zn	72	1	49.44	ppb	1.01	50	98.9	90 - 110	
75	As	72	1	51.15	ppb	1.93	50	102.3	90 - 110	
78	Se	72	1	51.39	ppb	4.27	50	102.8	90 - 110	
95	Mo	72	1	50.83	ppb	1.00	50	101.7	90 - 110	
107	Ag	115	1	50.43	ppb	1.33	50	100.9	90 - 110	
111	Cd	115	1	49.58	ppb	0.28	50	99.2	90 - 110	
118	Sn	115	1	48.17	ppb	0.38	50	96.3	90 - 110	
121	Sb	115	1	49.52	ppb	1.20	50	99.0	90 - 110	
137	Ba	115	1	51.48	ppb	1.86	50	103.0	90 - 110	
205	Tl	165	1	51.27	ppb	0.36	50	102.5	90 - 110	
208	Pb	165	1	49.28	ppb	0.16	50	98.6	90 - 110	
232	Th	165	1	49.73	ppb	1.49	50	99.5	90 - 110	
238	U	165	1	48.34	ppb	0.66	50	96.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	488213	0.69	534602	91.3	30 - 120	
45	Sc	1	2624154	1.49	2551677	102.8	30 - 120	
72	Ge	1	1637499	0.88	1553005	105.4	30 - 120	
115	In	1	4499395	0.21	4260602	105.6	30 - 120	
165	Ho	1	8951159	0.73	8806612	101.6	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\088_CCB.D\088_CCB.D#
Date Acquired: Nov 8 2011 11:07 pm
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.005	ppb	319.93	1.00	
51	V	72	1	0.020	ppb	85.43	1.00	
52	Cr	72	1	0.012	ppb	162.69	1.00	
55	Mn	72	1	0.061	ppb	8.14	1.00	
59	Co	72	1	0.008	ppb	16.49	1.00	
60	Ni	72	1	-0.016	ppb	76.11	1.00	
63	Cu	72	1	-0.001	ppb	155.73	1.00	
66	Zn	72	1	-0.015	ppb	66.63	1.00	
75	As	72	1	0.009	ppb	53.48	1.00	
78	Se	72	1	0.146	ppb	93.95	1.00	
95	Mo	72	1	0.007	ppb	85.17	1.00	
107	Ag	115	1	0.009	ppb	22.42	1.00	
111	Cd	115	1	0.004	ppb	149.01	1.00	
118	Sn	115	1	0.005	ppb	255.83	1.00	
121	Sb	115	1	0.014	ppb	16.88	1.00	
137	Ba	115	1	0.087	ppb	7.64	1.00	
205	Tl	165	1	0.020	ppb	10.85	1.00	
208	Pb	165	1	0.009	ppb	3.08	1.00	
232	Th	165	1	0.024	ppb	3.90	1.00	
238	U	165	1	0.009	ppb	2.30	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493774	0.32	534602	92.4	30 - 120	
45	Sc	1	2668806	0.59	2551677	104.6	30 - 120	
72	Ge	1	1647268	2.11	1553005	106.1	30 - 120	
115	In	1	4528016	1.57	4260602	106.3	30 - 120	
165	Ho	1	9030484	1.67	8806612	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\089WASH.D\089WASH.D#
Date Acquired: Nov 8 2011 11:10 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.222	ppb	8.68	1.30	
51	V	72	1	5.043	ppb	3.12	6.50	
52	Cr	72	1	2.237	ppb	4.13	2.60	
55	Mn	72	1	1.307	ppb	5.12	1.30	
59	Co	72	1	1.100	ppb	5.00	1.30	
60	Ni	72	1	2.315	ppb	4.71	2.60	
63	Cu	72	1	2.238	ppb	3.25	2.60	
66	Zn	72	1	10.600	ppb	3.71	13.00	
75	As	72	1	5.385	ppb	1.74	6.50	
78	Se	72	1	5.634	ppb	7.91	6.50	
95	Mo	72	1	2.257	ppb	3.78	2.60	
107	Ag	115	1	5.194	ppb	1.81	6.50	
111	Cd	115	1	1.095	ppb	4.81	1.30	
118	Sn	115	1	10.110	ppb	5.23	13.00	
121	Sb	115	1	2.127	ppb	5.68	2.60	
137	Ba	115	1	1.232	ppb	3.77	1.30	
205	Tl	165	1	1.134	ppb	3.80	1.30	
208	Pb	165	1	1.110	ppb	4.25	1.30	
232	Th	165	1	2.143	ppb	6.98	2.60	
238	U	165	1	1.079	ppb	6.45	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	490831	2.82	534602	91.8	30 - 120	
45	Sc	1	2577577	3.93	2551677	101.0	30 - 120	
72	Ge	1	1626318	3.06	1553005	104.7	30 - 120	
115	In	1	4460998	3.25	4260602	104.7	30 - 120	
165	Ho	1	8744665	4.07	8806612	99.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\090AREF.D\090AREF.D#
Date Acquired: Nov 8 2011 11:13 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22320-a-13-a
Misc Info:
Vial Number: 2503
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.50	2.50	ppb	3.88	3600	
51	V	72	1	91.59	91.59	ppb	0.88	3600	
52	Cr	72	1	41.86	41.86	ppb	0.87	3600	
55	Mn	72	1	788.10	788.10	ppb	1.01	18000	
59	Co	72	1	17.51	17.51	ppb	0.96	3600	
60	Ni	72	1	34.42	34.42	ppb	0.53	3600	
63	Cu	72	1	36.19	36.19	ppb	0.97	3600	
66	Zn	72	1	127.40	127.40	ppb	1.04	3600	
75	As	72	1	11.56	11.56	ppb	1.52	3600	
78	Se	72	1	3.75	3.75	ppb	9.98	3600	
95	Mo	72	1	0.64	0.64	ppb	7.41	3600	
107	Ag	115	1	0.23	0.23	ppb	6.93	3600	
111	Cd	115	1	1.16	1.16	ppb	5.21	3600	
118	Sn	115	1	0.14	0.14	ppb	4.04	3600	
121	Sb	115	1	0.03	0.03	ppb	13.71	3600	
137	Ba	115	1	578.10	578.10	ppb	2.17	3600	
205	Tl	165	1	0.70	0.70	ppb	0.93	3600	
208	Pb	165	1	30.66	30.66	ppb	0.57	3600	
232	Th	165	1	23.83	23.83	ppb	1.56	1000	
238	U	165	1	2.37	2.37	ppb	1.78	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457557	1.41	534602	85.6	30 - 120	
45	Sc	1	2571793	0.67	2551677	100.8	30 - 120	
72	Ge	1	1545349	0.55	1553005	99.5	30 - 120	
115	In	1	4121207	1.40	4260602	96.7	30 - 120	
165	Ho	1	8424704	0.56	8806612	95.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\091SDIL.D\091SDIL.D#	
Date Acquired:	Nov 8 2011 11:16 pm	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	LRD	**ISTD: Pass**
Sample Name:	280-22320-a-13-a SD@5	
Misc Info:	SERIAL DILUTION	
Vial Number:	2504	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 08 2011 07:04 pm	
Sample Type:	SDIL	
Dilution Factor:	1.00	

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\090AREF.D\090AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.48	ppb	14.30	0.50	96.1	90 - 110	
51	V	72	1	17.84	ppb	0.73	18.32	97.4	90 - 110	
52	Cr	72	1	8.23	ppb	1.26	8.37	98.3	90 - 110	
55	Mn	72	1	163.90	ppb	0.76	157.62	104.0	90 - 110	
59	Co	72	1	3.63	ppb	1.80	3.50	103.5	90 - 110	
60	Ni	72	1	7.08	ppb	0.08	6.88	102.8	90 - 110	
63	Cu	72	1	7.70	ppb	0.36	7.24	106.3	90 - 110	
66	Zn	72	1	26.44	ppb	0.94	25.48	103.8	90 - 110	
75	As	72	1	2.37	ppb	0.18	2.31	102.3	90 - 110	
78	Se	72	1	0.93	ppb	10.53	0.75	124.6	90 - 110	
95	Mo	72	1	0.14	ppb	7.92	0.13	107.5	90 - 110	
107	Ag	115	1	0.05	ppb	11.26	0.05	100.5	90 - 110	
111	Cd	115	1	0.23	ppb	8.52	0.23	100.4	90 - 110	
118	Sn	115	1	0.12	ppb	7.36	0.03	423.7	90 - 110	
121	Sb	115	1	0.01	ppb	4.54	0.01	121.3	90 - 110	
137	Ba	115	1	111.40	ppb	1.44	115.62	96.4	90 - 110	
205	Tl	165	1	0.14	ppb	0.86	0.14	102.6	90 - 110	
208	Pb	165	1	6.14	ppb	2.13	6.13	100.2	90 - 110	
232	Th	165	1	4.56	ppb	1.94	4.77	95.7	90 - 110	
238	U	165	1	0.46	ppb	1.28	0.47	97.4	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	481319	1.26	534602	90.0	30 - 120	
45	Sc	1	2614390	0.48	2551677	102.5	30 - 120	
72	Ge	1	1605727	1.16	1553005	103.4	30 - 120	
115	In	1	4426658	1.51	4260602	103.9	30 - 120	
165	Ho	1	8932475	1.25	8806612	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\092PDS.D\092PDS.D#
Date Acquired:	Nov 8 2011 11:18 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-13-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	2505
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	216.70	2.50	ppb	1.54	200	107.0	75 - 125	
51 V	72	1	276.40	91.59	ppb	1.63	200	94.8	75 - 125	
52 Cr	72	1	230.50	41.86	ppb	2.46	200	95.3	75 - 125	
55 Mn	72	1	956.00	788.10	ppb	1.65	200	96.8	75 - 125	
59 Co	72	1	204.90	17.51	ppb	2.42	200	94.2	75 - 125	
60 Ni	72	1	229.20	34.42	ppb	2.43	200	97.8	75 - 125	
63 Cu	72	1	215.20	36.19	ppb	2.08	200	91.1	75 - 125	
66 Zn	72	1	315.70	127.40	ppb	2.61	200	96.4	75 - 125	
75 As	72	1	211.10	11.56	ppb	1.79	200	99.8	75 - 125	
78 Se	72	1	202.90	3.75	ppb	0.33	200	99.6	75 - 125	
95 Mo	72	1	208.20	0.64	ppb	2.75	200	103.8	75 - 125	
107 Ag	115	1	48.64	0.23	ppb	1.42	50	96.8	75 - 125	
111 Cd	115	1	199.50	1.16	ppb	0.93	200	99.2	75 - 125	
118 Sn	115	1	198.80	0.14	ppb	1.53	200	99.3	75 - 125	
121 Sb	115	1	203.50	0.03	ppb	0.83	200	101.7	75 - 125	
137 Ba	115	1	766.20	578.10	ppb	1.64	200	98.5	75 - 125	
205 Tl	165	1	193.20	0.70	ppb	0.16	200	96.3	75 - 125	
208 Pb	165	1	215.30	30.66	ppb	1.14	200	93.3	75 - 125	
232 Th	165	1	22.96	23.83	ppb	2.29	200	10.3	75 - 125	
238 U	165	1	190.40	2.37	ppb	0.35	200	94.1	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	455900	1.17	534602	85.3	30 - 120	
45 Sc	1	2574870	1.63	2551677	100.9	30 - 120	
72 Ge	1	1528049	2.09	1553005	98.4	30 - 120	
115 In	1	4110802	0.97	4260602	96.5	30 - 120	
165 Ho	1	8482258	0.51	8806612	96.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\093_MS.D\093_MS.D#
Date Acquired:	Nov 8 2011 11:21 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-13-b ms
Misc Info:	MATRIX SPIKE
Vial Number:	2506
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	46.14	2.50	ppb	1.57	40	108.6	50 - 150	
51	V	72	1	132.40	91.59	ppb	1.37	40	100.6	50 - 150	
52	Cr	72	1	79.18	41.86	ppb	2.21	40	96.7	50 - 150	
55	Mn	72	1	788.70	788.10	ppb	0.39	40	95.2	50 - 150	
59	Co	72	1	57.02	17.51	ppb	1.82	40	99.1	50 - 150	
60	Ni	72	1	69.07	34.42	ppb	0.45	40	92.8	50 - 150	
63	Cu	72	1	72.77	36.19	ppb	1.43	40	95.5	50 - 150	
66	Zn	72	1	151.80	127.40	ppb	0.58	40	90.7	50 - 150	
75	As	72	1	51.03	11.56	ppb	0.93	40	99.0	50 - 150	
78	Se	72	1	42.80	3.75	ppb	2.26	40	97.8	50 - 150	
95	Mo	72	1	28.65	0.64	ppb	0.60	40	70.5	50 - 150	
107	Ag	115	1	37.52	0.23	ppb	0.49	40	93.3	50 - 150	
111	Cd	115	1	40.82	1.16	ppb	0.78	40	99.2	50 - 150	
118	Sn	115	1	3.44	0.14	ppb	1.79	40	8.6	50 - 150	
121	Sb	115	1	0.96	0.03	ppb	3.04	40	2.4	50 - 150	
137	Ba	115	1	606.40	578.10	ppb	0.74	40	98.1	50 - 150	
205	Tl	165	1	41.04	0.70	ppb	0.63	40	100.8	50 - 150	
208	Pb	165	1	65.14	30.66	ppb	0.19	40	92.2	50 - 150	
232	Th	165	1	60.55	23.83	ppb	0.44	40	94.9	50 - 150	
238	U	165	1	42.47	2.37	ppb	0.55	40	100.2	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	461248	1.31	534602	86.3	30 - 120	
45	Sc	1	2583516	1.01	2551677	101.2	30 - 120	
72	Ge	1	1512809	1.09	1553005	97.4	30 - 120	
115	In	1	4172113	0.67	4260602	97.9	30 - 120	
165	Ho	1	8492205	0.44	8806612	96.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\094_MSD.D\094_MSD.D#
Date Acquired:	Nov 8 2011 11:24 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-13-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	2507
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\093_MS.D\093_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	47.32	ppb	1.24	46.14	2.53	20	
51	V	72	1	126.90	ppb	0.87	132.40	4.24	20	
52	Cr	72	1	80.25	ppb	1.22	79.18	1.34	20	
55	Mn	72	1	786.40	ppb	1.68	788.70	0.29	20	
59	Co	72	1	56.90	ppb	0.73	57.02	0.21	20	
60	Ni	72	1	71.02	ppb	1.03	69.07	2.78	20	
63	Cu	72	1	74.33	ppb	0.61	72.77	2.12	20	
66	Zn	72	1	156.50	ppb	0.93	151.80	3.05	20	
75	As	72	1	50.85	ppb	1.61	51.03	0.35	20	
78	Se	72	1	42.35	ppb	2.43	42.80	1.06	20	
95	Mo	72	1	28.34	ppb	1.48	28.65	1.09	20	
107	Ag	115	1	39.34	ppb	1.39	37.52	4.74	20	
111	Cd	115	1	41.71	ppb	1.74	40.82	2.16	20	
118	Sn	115	1	3.56	ppb	1.13	3.44	3.40	20	
121	Sb	115	1	1.03	ppb	3.40	0.96	7.17	20	
137	Ba	115	1	594.10	ppb	3.35	606.40	2.05	20	
205	Tl	165	1	41.35	ppb	0.89	41.04	0.75	20	
208	Pb	165	1	67.35	ppb	1.24	65.14	3.34	20	
232	Th	165	1	61.67	ppb	1.44	60.55	1.83	20	
238	U	165	1	42.90	ppb	2.28	42.47	1.01	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454726	0.59	534602	85.1	30 - 120	
45	Sc	1	2591223	0.28	2551677	101.5	30 - 120	
72	Ge	1	1547985	1.37	1553005	99.7	30 - 120	
115	In	1	4169095	2.25	4260602	97.9	30 - 120	
165	Ho	1	8520215	0.28	8806612	96.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\095SMPL.D\095SMPL.D#
Date Acquired:	Nov 8 2011 11:27 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-11-b
Misc Info:	
Vial Number:	2508
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	2.24	2.24	ppb	7.21	3600	
51	V	72	1	102.70	102.70	ppb	1.36	3600	
52	Cr	72	1	34.58	34.58	ppb	1.87	3600	
55	Mn	72	1	765.60	765.60	ppb	0.94	18000	
59	Co	72	1	17.17	17.17	ppb	1.57	3600	
60	Ni	72	1	28.47	28.47	ppb	0.96	3600	
63	Cu	72	1	36.22	36.22	ppb	0.71	3600	
66	Zn	72	1	111.90	111.90	ppb	1.01	3600	
75	As	72	1	8.25	8.25	ppb	0.76	3600	
78	Se	72	1	3.06	3.06	ppb	7.87	3600	
95	Mo	72	1	0.52	0.52	ppb	6.75	3600	
107	Ag	115	1	0.21	0.21	ppb	2.73	3600	
111	Cd	115	1	0.99	0.99	ppb	4.01	3600	
118	Sn	115	1	0.07	0.07	ppb	17.15	3600	
121	Sb	115	1	0.03	0.03	ppb	15.10	3600	
137	Ba	115	1	556.50	556.50	ppb	1.65	3600	
205	Tl	165	1	0.59	0.59	ppb	1.15	3600	
208	Pb	165	1	24.28	24.28	ppb	0.88	3600	
232	Th	165	1	19.10	19.10	ppb	1.84	1000	
238	U	165	1	2.12	2.12	ppb	1.50	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457270	0.70	534602	85.5	30 - 120	
45	Sc	1	2599628	0.91	2551677	101.9	30 - 120	
72	Ge	1	1544148	1.09	1553005	99.4	30 - 120	
115	In	1	4164817	0.67	4260602	97.8	30 - 120	
165	Ho	1	8424628	0.87	8806612	95.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\096SMPL.D\096SMPL.D#
Date Acquired:	Nov 8 2011 11:30 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22320-a-12-a
Misc Info:	
Vial Number:	2509
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.85	0.85	ppb	13.69	3600	
51	V	72	1	220.40	220.40	ppb	1.32	3600	
52	Cr	72	1	27.92	27.92	ppb	1.62	3600	
55	Mn	72	1	478.20	478.20	ppb	1.68	18000	
59	Co	72	1	22.95	22.95	ppb	1.64	3600	
60	Ni	72	1	18.16	18.16	ppb	1.65	3600	
63	Cu	72	1	26.51	26.51	ppb	1.40	3600	
66	Zn	72	1	99.80	99.80	ppb	0.61	3600	
75	As	72	1	6.65	6.65	ppb	0.72	3600	
78	Se	72	1	1.49	1.49	ppb	9.46	3600	
95	Mo	72	1	1.06	1.06	ppb	3.84	3600	
107	Ag	115	1	0.12	0.12	ppb	4.84	3600	
111	Cd	115	1	0.87	0.87	ppb	9.67	3600	
118	Sn	115	1	0.19	0.19	ppb	14.39	3600	
121	Sb	115	1	0.02	0.02	ppb	14.34	3600	
137	Ba	115	1	577.20	577.20	ppb	1.52	3600	
205	Tl	165	1	0.44	0.44	ppb	1.03	3600	
208	Pb	165	1	13.86	13.86	ppb	0.26	3600	
232	Th	165	1	14.03	14.03	ppb	0.72	1000	
238	U	165	1	3.48	3.48	ppb	0.62	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	464157	1.29	534602	86.8	30 - 120	
45	Sc	1	2743427	0.78	2551677	107.5	30 - 120	
72	Ge	1	1591150	1.27	1553005	102.5	30 - 120	
115	In	1	4248036	0.70	4260602	99.7	30 - 120	
165	Ho	1	8673004	0.45	8806612	98.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\097_CCV.D\097_CCV.D#
Date Acquired:	Nov 8 2011 11:33 pm
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	54.44	ppb	1.68	50	108.9	90 - 110	
51	V	72	1	51.12	ppb	1.63	50	102.2	90 - 110	
52	Cr	72	1	50.60	ppb	1.28	50	101.2	90 - 110	
55	Mn	72	1	51.09	ppb	2.23	50	102.2	90 - 110	
59	Co	72	1	51.23	ppb	2.31	50	102.5	90 - 110	
60	Ni	72	1	50.29	ppb	1.80	50	100.6	90 - 110	
63	Cu	72	1	49.91	ppb	2.21	50	99.8	90 - 110	
66	Zn	72	1	49.17	ppb	1.20	50	98.3	90 - 110	
75	As	72	1	51.05	ppb	0.78	50	102.1	90 - 110	
78	Se	72	1	51.84	ppb	3.68	50	103.7	90 - 110	
95	Mo	72	1	50.23	ppb	0.58	50	100.5	90 - 110	
107	Ag	115	1	50.51	ppb	2.46	50	101.0	90 - 110	
111	Cd	115	1	49.50	ppb	1.30	50	99.0	90 - 110	
118	Sn	115	1	47.94	ppb	1.14	50	95.9	90 - 110	
121	Sb	115	1	49.36	ppb	1.56	50	98.7	90 - 110	
137	Ba	115	1	50.89	ppb	1.41	50	101.8	90 - 110	
205	Tl	165	1	50.94	ppb	0.36	50	101.9	90 - 110	
208	Pb	165	1	49.69	ppb	0.79	50	99.4	90 - 110	
232	Th	165	1	50.32	ppb	0.77	50	100.6	90 - 110	
238	U	165	1	48.94	ppb	2.34	50	97.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	483293	0.18	534602	90.4	30 - 120	
45	Sc	1	2661555	1.80	2551677	104.3	30 - 120	
72	Ge	1	1659550	0.58	1553005	106.9	30 - 120	
115	In	1	4532716	1.21	4260602	106.4	30 - 120	
165	Ho	1	8815403	1.35	8806612	100.1	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\098_CCB.D\098_CCB.D#
Date Acquired: Nov 8 2011 11:36 pm
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.027	ppb	113.36	1.00	
51	V	72	1	0.033	ppb	24.28	1.00	
52	Cr	72	1	0.000	ppb	3928.00	1.00	
55	Mn	72	1	0.070	ppb	3.91	1.00	
59	Co	72	1	0.010	ppb	13.33	1.00	
60	Ni	72	1	-0.013	ppb	50.36	1.00	
63	Cu	72	1	0.000	ppb	5269.10	1.00	
66	Zn	72	1	-0.009	ppb	76.08	1.00	
75	As	72	1	0.010	ppb	53.24	1.00	
78	Se	72	1	0.393	ppb	20.82	1.00	
95	Mo	72	1	0.010	ppb	36.95	1.00	
107	Ag	115	1	0.010	ppb	4.77	1.00	
111	Cd	115	1	0.011	ppb	32.58	1.00	
118	Sn	115	1	0.010	ppb	79.96	1.00	
121	Sb	115	1	0.014	ppb	18.17	1.00	
137	Ba	115	1	0.061	ppb	5.62	1.00	
205	Tl	165	1	0.014	ppb	5.60	1.00	
208	Pb	165	1	0.010	ppb	5.35	1.00	
232	Th	165	1	0.025	ppb	2.77	1.00	
238	U	165	1	0.010	ppb	10.14	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	488926	0.60	534602	91.5	30 - 120	
45	Sc	1	2686689	1.75	2551677	105.3	30 - 120	
72	Ge	1	1680917	1.05	1553005	108.2	30 - 120	
115	In	1	4588004	1.37	4260602	107.7	30 - 120	
165	Ho	1	8929259	0.77	8806612	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\099WASH.D\099WASH.D#
Date Acquired: Nov 8 2011 11:38 pm
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.231 ppb	8.93	1.30	
51	V	72	1	5.040 ppb	0.61	6.50	
52	Cr	72	1	2.175 ppb	1.49	2.60	
55	Mn	72	1	1.277 ppb	3.07	1.30	
59	Co	72	1	1.108 ppb	1.96	1.30	
60	Ni	72	1	2.332 ppb	1.64	2.60	
63	Cu	72	1	2.274 ppb	0.45	2.60	
66	Zn	72	1	10.560 ppb	1.32	13.00	
75	As	72	1	5.401 ppb	3.13	6.50	
78	Se	72	1	5.660 ppb	2.57	6.50	
95	Mo	72	1	2.181 ppb	2.58	2.60	
107	Ag	115	1	5.159 ppb	0.91	6.50	
111	Cd	115	1	1.081 ppb	1.41	1.30	
118	Sn	115	1	10.040 ppb	0.87	13.00	
121	Sb	115	1	2.108 ppb	2.02	2.60	
137	Ba	115	1	1.188 ppb	2.31	1.30	
205	Tl	165	1	1.107 ppb	1.44	1.30	
208	Pb	165	1	1.087 ppb	1.35	1.30	
232	Th	165	1	2.060 ppb	3.07	2.60	
238	U	165	1	1.038 ppb	2.69	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497056	1.62	534602	93.0	30 - 120	
45	Sc	1	2702119	0.95	2551677	105.9	30 - 120	
72	Ge	1	1667327	1.26	1553005	107.4	30 - 120	
115	In	1	4548174	0.38	4260602	106.7	30 - 120	
165	Ho	1	8926114	1.50	8806612	101.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\100_BLK.D\100_BLK.D#
Date Acquired:	Nov 8 2011 11:41 pm
Operator:	LRD
Sample Name:	mb 280-93880/1-a
Misc Info:	BLANK 93880 Soil DoD4/6020A
Vial Number:	2510
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.005 ppb	320.39	2.00	
51	V	72	1	0.014 ppb	186.61	2.00	
52	Cr	72	1	0.067 ppb	8.25	2.00	
55	Mn	72	1	0.084 ppb	7.16	2.00	
59	Co	72	1	0.005 ppb	29.08	2.00	
60	Ni	72	1	0.017 ppb	65.43	2.00	
63	Cu	72	1	0.133 ppb	6.47	2.00	
66	Zn	72	1	0.318 ppb	6.77	2.00	
75	As	72	1	0.005 ppb	75.66	2.00	
78	Se	72	1	0.216 ppb	58.41	2.00	
95	Mo	72	1	0.011 ppb	22.59	2.00	
107	Ag	115	1	0.005 ppb	37.55	2.00	
111	Cd	115	1	0.006 ppb	133.97	2.00	
118	Sn	115	1	0.111 ppb	10.78	2.00	
121	Sb	115	1	0.008 ppb	24.28	2.00	
137	Ba	115	1	0.118 ppb	6.17	2.00	
205	Tl	165	1	0.005 ppb	26.72	2.00	
208	Pb	165	1	0.017 ppb	4.64	2.00	
232	Th	165	1	0.011 ppb	15.90	2.00	
238	U	165	1	0.006 ppb	5.74	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493996	0.60	534602	92.4	30 - 120	
45	Sc	1	2703211	0.79	2551677	105.9	30 - 120	
72	Ge	1	1700218	1.93	1553005	109.5	30 - 120	
115	In	1	4584297	1.67	4260602	107.6	30 - 120	
165	Ho	1	8968320	1.20	8806612	101.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\101_LCS.D\101_LCS.D#
Date Acquired:	Nov 8 2011 11:44 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-93880/2-a
Misc Info:	LCS
Vial Number:	2511
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	43.74	2.18	40	109.4	80 - 120	
51	V	72	1	40.92	0.53	40	102.3	80 - 120	
52	Cr	72	1	41.32	1.76	40	103.3	80 - 120	
55	Mn	72	1	40.08	1.59	40	100.2	80 - 120	
59	Co	72	1	41.56	2.43	40	103.9	80 - 120	
60	Ni	72	1	40.80	1.21	40	102.0	80 - 120	
63	Cu	72	1	39.98	1.93	40	100.0	80 - 120	
66	Zn	72	1	38.98	0.99	40	97.5	80 - 120	
75	As	72	1	41.33	1.36	40	103.3	80 - 120	
78	Se	72	1	43.55	5.08	40	108.9	80 - 120	
95	Mo	72	1	40.40	1.64	40	101.0	80 - 120	
107	Ag	115	1	40.19	0.35	40	100.5	80 - 120	
111	Cd	115	1	39.94	1.10	40	99.9	80 - 120	
118	Sn	115	1	38.89	0.40	40	97.2	80 - 120	
121	Sb	115	1	39.59	0.56	40	99.0	80 - 120	
137	Ba	115	1	41.63	0.62	40	104.1	80 - 120	
205	Tl	165	1	41.31	1.12	40	103.3	80 - 120	
208	Pb	165	1	40.15	1.85	40	100.4	80 - 120	
232	Th	165	1	39.25	1.24	40	98.1	80 - 120	
238	U	165	1	39.52	1.43	40	98.8	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	498189	1.81	534602	93.2	30 - 120	
45	Sc	1	2753057	0.42	2551677	107.9	30 - 120	
72	Ge	1	1687917	1.64	1553005	108.7	30 - 120	
115	In	1	4568836	0.59	4260602	107.2	30 - 120	
165	Ho	1	8974050	0.94	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\102AREF.D\102AREF.D#
Date Acquired: Nov 8 2011 11:47 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-1-a
Misc Info:
Vial Number: 2512
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: AllRef
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.44	0.44	ppb	12.96	3600	
51	V	72	1	19.89	19.89	ppb	1.49	3600	
52	Cr	72	1	12.90	12.90	ppb	1.18	3600	
55	Mn	72	1	63.34	63.34	ppb	1.48	18000	
59	Co	72	1	2.17	2.17	ppb	2.40	3600	
60	Ni	72	1	6.91	6.91	ppb	1.23	3600	
63	Cu	72	1	6.32	6.32	ppb	1.41	3600	
66	Zn	72	1	24.10	24.10	ppb	1.35	3600	
75	As	72	1	5.00	5.00	ppb	0.96	3600	
78	Se	72	1	1.34	1.34	ppb	15.42	3600	
95	Mo	72	1	1.39	1.39	ppb	2.76	3600	
107	Ag	115	1	0.05	0.05	ppb	7.73	3600	
111	Cd	115	1	0.20	0.20	ppb	18.98	3600	
118	Sn	115	1	0.49	0.49	ppb	2.08	3600	
121	Sb	115	1	0.03	0.03	ppb	14.99	3600	
137	Ba	115	1	10.93	10.93	ppb	2.96	3600	
205	Tl	165	1	0.22	0.22	ppb	5.27	3600	
208	Pb	165	1	8.97	8.97	ppb	0.12	3600	
232	Th	165	1	4.55	4.55	ppb	0.89	1000	
238	U	165	1	1.53	1.53	ppb	0.76	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	486146	0.93	534602	90.9	30 - 120	
45	Sc	1	2675030	1.93	2551677	104.8	30 - 120	
72	Ge	1	1640612	0.82	1553005	105.6	30 - 120	
115	In	1	4517045	2.14	4260602	106.0	30 - 120	
165	Ho	1	8892010	0.31	8806612	101.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\103SDIL.D\103SDIL.D#
Date Acquired: Nov 8 2011 11:50 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-1-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\102AREF.D\102AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.09	ppb	1.09	0.09	99.1	90 - 110	
51	V	72	1	3.98	ppb	2.24	3.98	100.0	90 - 110	
52	Cr	72	1	2.55	ppb	0.87	2.58	98.8	90 - 110	
55	Mn	72	1	12.24	ppb	2.15	12.67	96.6	90 - 110	
59	Co	72	1	0.44	ppb	1.58	0.43	100.6	90 - 110	
60	Ni	72	1	1.37	ppb	3.08	1.38	98.9	90 - 110	
63	Cu	72	1	1.28	ppb	3.28	1.26	101.1	90 - 110	
66	Zn	72	1	4.84	ppb	0.97	4.82	100.4	90 - 110	
75	As	72	1	1.02	ppb	3.68	1.00	101.8	90 - 110	
78	Se	72	1	0.38	ppb	32.76	0.27	143.6	90 - 110	
95	Mo	72	1	0.28	ppb	7.96	0.28	101.7	90 - 110	
107	Ag	115	1	0.01	ppb	12.65	0.01	103.5	90 - 110	
111	Cd	115	1	0.05	ppb	34.56	0.04	132.5	90 - 110	
118	Sn	115	1	0.10	ppb	9.36	0.10	101.0	90 - 110	
121	Sb	115	1	0.01	ppb	24.41	0.01	147.3	90 - 110	
137	Ba	115	1	2.23	ppb	1.91	2.19	102.2	90 - 110	
205	Tl	165	1	0.04	ppb	3.17	0.04	96.9	90 - 110	
208	Pb	165	1	1.84	ppb	1.02	1.79	102.7	90 - 110	
232	Th	165	1	0.92	ppb	1.33	0.91	100.6	90 - 110	
238	U	165	1	0.30	ppb	0.83	0.31	98.4	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492353	1.04	534602	92.1	30 - 120	
45	Sc	1	2664971	0.22	2551677	104.4	30 - 120	
72	Ge	1	1691315	1.89	1553005	108.9	30 - 120	
115	In	1	4496459	0.58	4260602	105.5	30 - 120	
165	Ho	1	8975182	0.82	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\104PDS.D\104PDS.D#
Date Acquired:	Nov 8 2011 11:53 pm
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-1-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3102
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	212.30	0.44	ppb	0.69	200	105.9	75 - 125	
51 V	72	1	210.30	19.89	ppb	1.17	200	95.6	75 - 125	
52 Cr	72	1	203.30	12.90	ppb	1.09	200	95.5	75 - 125	
55 Mn	72	1	253.00	63.34	ppb	0.80	200	96.1	75 - 125	
59 Co	72	1	194.40	2.17	ppb	0.91	200	96.2	75 - 125	
60 Ni	72	1	208.90	6.91	ppb	1.30	200	101.0	75 - 125	
63 Cu	72	1	193.90	6.32	ppb	1.02	200	94.0	75 - 125	
66 Zn	72	1	214.40	24.10	ppb	0.63	200	95.7	75 - 125	
75 As	72	1	207.10	5.00	ppb	0.76	200	101.0	75 - 125	
78 Se	72	1	204.60	1.34	ppb	0.49	200	101.6	75 - 125	
95 Mo	72	1	205.70	1.39	ppb	0.48	200	102.1	75 - 125	
107 Ag	115	1	50.19	0.05	ppb	1.09	50	100.3	75 - 125	
111 Cd	115	1	201.10	0.20	ppb	0.43	200	100.5	75 - 125	
118 Sn	115	1	199.10	0.49	ppb	1.11	200	99.3	75 - 125	
121 Sb	115	1	202.30	0.03	ppb	1.02	200	101.1	75 - 125	
137 Ba	115	1	222.90	10.93	ppb	0.45	200	105.7	75 - 125	
205 Tl	165	1	194.50	0.22	ppb	0.75	200	97.1	75 - 125	
208 Pb	165	1	200.10	8.97	ppb	0.48	200	95.8	75 - 125	
232 Th	165	1	4.54	4.55	ppb	0.25	200	2.2	75 - 125	
238 U	165	1	191.20	1.53	ppb	1.00	200	94.9	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	493062	1.02	534602	92.2	30 - 120	
45 Sc	1	2652641	0.50	2551677	104.0	30 - 120	
72 Ge	1	1642853	0.32	1553005	105.8	30 - 120	
115 In	1	4425864	0.67	4260602	103.9	30 - 120	
165 Ho	1	8937534	1.20	8806612	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\105_MS.D\105_MS.D#		
Date Acquired:	Nov 8 2011 11:56 pm	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	LRD	ISTD:	Pass
Sample Name:	280-22000-a-1-b ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	3103		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 07:04 pm		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		
Spike Ref. File:	---		

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	44.48	0.44	ppb	3.61	40	110.0	50 - 150	
51	V	72	1	63.43	19.89	ppb	1.94	40	105.9	50 - 150	
52	Cr	72	1	55.03	12.90	ppb	1.30	40	104.0	50 - 150	
55	Mn	72	1	111.10	63.34	ppb	1.54	40	107.5	50 - 150	
59	Co	72	1	44.83	2.17	ppb	2.50	40	106.3	50 - 150	
60	Ni	72	1	48.24	6.91	ppb	2.22	40	102.8	50 - 150	
63	Cu	72	1	45.79	6.32	ppb	1.90	40	98.9	50 - 150	
66	Zn	72	1	66.49	24.10	ppb	0.99	40	103.7	50 - 150	
75	As	72	1	47.26	5.00	ppb	0.78	40	105.0	50 - 150	
78	Se	72	1	44.15	1.34	ppb	4.35	40	106.8	50 - 150	
95	Mo	72	1	40.83	1.39	ppb	0.91	40	98.6	50 - 150	
107	Ag	115	1	14.82	0.05	ppb	0.65	40	37.0	50 - 150	
111	Cd	115	1	41.74	0.20	ppb	0.52	40	103.8	50 - 150	
118	Sn	115	1	37.61	0.49	ppb	0.76	40	92.9	50 - 150	
121	Sb	115	1	8.85	0.03	ppb	1.13	40	22.1	50 - 150	
137	Ba	115	1	54.00	10.93	ppb	1.45	40	106.0	50 - 150	
205	Tl	165	1	42.61	0.22	ppb	2.37	40	105.9	50 - 150	
208	Pb	165	1	50.49	8.97	ppb	0.79	40	103.1	50 - 150	
232	Th	165	1	46.65	4.55	ppb	0.68	40	104.7	50 - 150	
238	U	165	1	43.31	1.53	ppb	1.69	40	104.3	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	487678	2.13	534602	91.2	30 - 120	
45	Sc	1	2532394	1.01	2551677	99.2	30 - 120	
72	Ge	1	1593066	0.87	1553005	102.6	30 - 120	
115	In	1	4359529	0.29	4260602	102.3	30 - 120	
165	Ho	1	8625710	1.18	8806612	97.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\106_MSD.D\106_MSD.D#
Date Acquired: Nov 8 2011 11:59 pm
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-1-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 3104
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\105_MS.D\105_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	42.69	ppb	1.40	44.48	4.11	20	
51	V	72	1	59.19	ppb	1.68	63.43	6.92	20	
52	Cr	72	1	51.98	ppb	1.85	55.03	5.70	20	
55	Mn	72	1	99.00	ppb	0.14	111.10	11.52	20	
59	Co	72	1	41.88	ppb	1.27	44.83	6.80	20	
60	Ni	72	1	45.60	ppb	1.09	48.24	5.63	20	
63	Cu	72	1	43.70	ppb	1.64	45.79	4.67	20	
66	Zn	72	1	62.28	ppb	0.73	66.49	6.54	20	
75	As	72	1	44.34	ppb	0.15	47.26	6.38	20	
78	Se	72	1	42.06	ppb	0.96	44.15	4.85	20	
95	Mo	72	1	38.11	ppb	1.22	40.83	6.89	20	
107	Ag	115	1	15.11	ppb	1.41	14.82	1.94	20	
111	Cd	115	1	40.18	ppb	0.97	41.74	3.81	20	
118	Sn	115	1	35.46	ppb	1.63	37.61	5.88	20	
121	Sb	115	1	7.61	ppb	1.18	8.85	15.03	20	
137	Ba	115	1	52.65	ppb	1.31	54.00	2.53	20	
205	Tl	165	1	40.05	ppb	0.43	42.61	6.19	20	
208	Pb	165	1	47.92	ppb	0.66	50.49	5.22	20	
232	Th	165	1	43.90	ppb	1.22	46.65	6.07	20	
238	U	165	1	40.89	ppb	0.48	43.31	5.75	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	488809	0.67	534602	91.4	30 - 120	
45	Sc	1	2595656	0.95	2551677	101.7	30 - 120	
72	Ge	1	1635754	0.42	1553005	105.3	30 - 120	
115	In	1	4405657	1.09	4260602	103.4	30 - 120	
165	Ho	1	8858417	0.98	8806612	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\107SMPL.D\107SMPL.D#
Date Acquired:	Nov 9 2011 12:02 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-2-c
Misc Info:	
Vial Number:	3105
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.08	0.08	ppb	18.62	3600	
51	V	72	1	5.21	5.21	ppb	2.04	3600	
52	Cr	72	1	3.15	3.15	ppb	1.21	3600	
55	Mn	72	1	20.11	20.11	ppb	1.58	18000	
59	Co	72	1	0.72	0.72	ppb	1.84	3600	
60	Ni	72	1	1.70	1.70	ppb	2.47	3600	
63	Cu	72	1	0.86	0.86	ppb	4.58	3600	
66	Zn	72	1	4.80	4.80	ppb	2.03	3600	
75	As	72	1	1.82	1.82	ppb	1.91	3600	
78	Se	72	1	0.35	0.35	ppb	57.32	3600	
95	Mo	72	1	0.22	0.22	ppb	3.62	3600	
107	Ag	115	1	0.01	0.01	ppb	24.73	3600	
111	Cd	115	1	0.04	0.04	ppb	27.54	3600	
118	Sn	115	1	0.11	0.11	ppb	11.35	3600	
121	Sb	115	1	0.03	0.03	ppb	6.31	3600	
137	Ba	115	1	2.51	2.51	ppb	0.98	3600	
205	Tl	165	1	0.07	0.07	ppb	4.97	3600	
208	Pb	165	1	2.13	2.13	ppb	3.00	3600	
232	Th	165	1	2.74	2.74	ppb	2.59	1000	
238	U	165	1	0.59	0.59	ppb	1.95	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	490910	0.42	534602	91.8	30 - 120	
45	Sc	1	2640565	1.31	2551677	103.5	30 - 120	
72	Ge	1	1661576	0.68	1553005	107.0	30 - 120	
115	In	1	4545744	0.17	4260602	106.7	30 - 120	
165	Ho	1	8975960	1.44	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\108SMPL.D\108SMPL.D#
Date Acquired: Nov 9 2011 12:04 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-3-c
Misc Info:
Vial Number: 3106
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.05	0.05	ppb	14.23	3600	
51	V	72	1	5.27	5.27	ppb	0.88	3600	
52	Cr	72	1	2.32	2.32	ppb	0.18	3600	
55	Mn	72	1	10.30	10.30	ppb	0.92	18000	
59	Co	72	1	0.40	0.40	ppb	1.25	3600	
60	Ni	72	1	0.98	0.98	ppb	5.66	3600	
63	Cu	72	1	1.03	1.03	ppb	2.63	3600	
66	Zn	72	1	3.86	3.86	ppb	1.08	3600	
75	As	72	1	2.09	2.09	ppb	1.80	3600	
78	Se	72	1	0.36	0.36	ppb	45.55	3600	
95	Mo	72	1	0.15	0.15	ppb	4.75	3600	
107	Ag	115	1	0.01	0.01	ppb	6.97	3600	
111	Cd	115	1	0.03	0.03	ppb	8.77	3600	
118	Sn	115	1	0.11	0.11	ppb	11.83	3600	
121	Sb	115	1	0.03	0.03	ppb	9.08	3600	
137	Ba	115	1	1.98	1.98	ppb	1.21	3600	
205	Tl	165	1	0.04	0.04	ppb	4.20	3600	
208	Pb	165	1	1.87	1.87	ppb	3.10	3600	
232	Th	165	1	1.28	1.28	ppb	4.01	1000	
238	U	165	1	0.26	0.26	ppb	2.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489075	0.11	534602	91.5	30 - 120	
45	Sc	1	2656948	0.54	2551677	104.1	30 - 120	
72	Ge	1	1652907	0.17	1553005	106.4	30 - 120	
115	In	1	4526740	0.27	4260602	106.2	30 - 120	
165	Ho	1	8919034	2.28	8806612	101.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\109SMPL.D\109SMPL.D#
Date Acquired:	Nov 9 2011 12:07 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-4-c
Misc Info:	
Vial Number:	3107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.05	0.05	ppb	46.83	3600	
51	V	72	1	3.39	3.39	ppb	1.58	3600	
52	Cr	72	1	2.11	2.11	ppb	0.67	3600	
55	Mn	72	1	23.05	23.05	ppb	0.10	18000	
59	Co	72	1	0.83	0.83	ppb	1.60	3600	
60	Ni	72	1	1.31	1.31	ppb	3.59	3600	
63	Cu	72	1	0.92	0.92	ppb	4.99	3600	
66	Zn	72	1	4.64	4.64	ppb	1.55	3600	
75	As	72	1	1.29	1.29	ppb	3.83	3600	
78	Se	72	1	0.34	0.34	ppb	33.37	3600	
95	Mo	72	1	0.18	0.18	ppb	6.88	3600	
107	Ag	115	1	0.01	0.01	ppb	33.21	3600	
111	Cd	115	1	0.04	0.04	ppb	17.24	3600	
118	Sn	115	1	0.16	0.16	ppb	4.29	3600	
121	Sb	115	1	0.02	0.02	ppb	10.43	3600	
137	Ba	115	1	2.79	2.79	ppb	3.29	3600	
205	Tl	165	1	0.06	0.06	ppb	4.59	3600	
208	Pb	165	1	1.72	1.72	ppb	1.12	3600	
232	Th	165	1	1.07	1.07	ppb	1.21	1000	
238	U	165	1	0.26	0.26	ppb	3.40	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496580	0.68	534602	92.9	30 - 120	
45	Sc	1	2684954	1.25	2551677	105.2	30 - 120	
72	Ge	1	1670437	1.35	1553005	107.6	30 - 120	
115	In	1	4498627	0.70	4260602	105.6	30 - 120	
165	Ho	1	9028721	1.24	8806612	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\110_CCV.D\110_CCV.D#
Date Acquired: Nov 9 2011 12:10 am
Operator: LRD
Sample Name: CCV-1118466
Misc Info:
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	52.75	ppb	2.31	50	105.5	90 - 110	
51	V	72	1	50.58	ppb	0.99	50	101.2	90 - 110	
52	Cr	72	1	50.23	ppb	0.72	50	100.5	90 - 110	
55	Mn	72	1	50.72	ppb	0.52	50	101.4	90 - 110	
59	Co	72	1	51.33	ppb	0.26	50	102.7	90 - 110	
60	Ni	72	1	50.03	ppb	0.51	50	100.1	90 - 110	
63	Cu	72	1	50.03	ppb	0.52	50	100.1	90 - 110	
66	Zn	72	1	49.31	ppb	0.72	50	98.6	90 - 110	
75	As	72	1	50.94	ppb	0.63	50	101.9	90 - 110	
78	Se	72	1	50.92	ppb	3.76	50	101.8	90 - 110	
95	Mo	72	1	50.36	ppb	0.31	50	100.7	90 - 110	
107	Ag	115	1	51.32	ppb	1.37	50	102.6	90 - 110	
111	Cd	115	1	50.13	ppb	0.56	50	100.3	90 - 110	
118	Sn	115	1	48.51	ppb	0.64	50	97.0	90 - 110	
121	Sb	115	1	49.83	ppb	1.16	50	99.7	90 - 110	
137	Ba	115	1	51.75	ppb	1.67	50	103.5	90 - 110	
205	Tl	165	1	50.50	ppb	0.51	50	101.0	90 - 110	
208	Pb	165	1	48.76	ppb	1.35	50	97.5	90 - 110	
232	Th	165	1	49.43	ppb	1.75	50	98.9	90 - 110	
238	U	165	1	47.95	ppb	0.70	50	95.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496185	1.73	534602	92.8	30 - 120	
45	Sc	1	2677370	1.43	2551677	104.9	30 - 120	
72	Ge	1	1673249	0.17	1553005	107.7	30 - 120	
115	In	1	4534905	0.69	4260602	106.4	30 - 120	
165	Ho	1	9005990	1.11	8806612	102.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\111_CCB.D\111_CCB.D#
Date Acquired:	Nov 9 2011 12:13 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.004	ppb	0.00	1.00	
51	V	72	1	0.014	ppb	85.29	1.00	
52	Cr	72	1	0.035	ppb	191.70	1.00	
55	Mn	72	1	0.041	ppb	40.10	1.00	
59	Co	72	1	0.009	ppb	34.11	1.00	
60	Ni	72	1	-0.014	ppb	38.12	1.00	
63	Cu	72	1	-0.001	ppb	1051.40	1.00	
66	Zn	72	1	-0.002	ppb	428.30	1.00	
75	As	72	1	0.014	ppb	70.79	1.00	
78	Se	72	1	0.400	ppb	97.37	1.00	
95	Mo	72	1	0.016	ppb	47.38	1.00	
107	Ag	115	1	0.009	ppb	6.40	1.00	
111	Cd	115	1	0.003	ppb	272.14	1.00	
118	Sn	115	1	0.015	ppb	45.08	1.00	
121	Sb	115	1	0.022	ppb	18.36	1.00	
137	Ba	115	1	0.027	ppb	43.88	1.00	
205	Tl	165	1	0.026	ppb	12.21	1.00	
208	Pb	165	1	0.012	ppb	32.76	1.00	
232	Th	165	1	0.044	ppb	25.95	1.00	
238	U	165	1	0.013	ppb	20.91	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	457249	14.58	534602	85.5	30 - 120	
45	Sc	1	2386957	18.28	2551677	93.5	30 - 120	
72	Ge	1	1536659	13.87	1553005	98.9	30 - 120	
115	In	1	4036575	19.07	4260602	94.7	30 - 120	
165	Ho	1	7918174	18.83	8806612	89.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\112WASH.D\112WASH.D#
Date Acquired: Nov 9 2011 12:16 am
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.206 ppb	9.95	1.30	
51	V	72	1	5.013 ppb	2.22	6.50	
52	Cr	72	1	2.190 ppb	2.12	2.60	
55	Mn	72	1	1.260 ppb	1.27	1.30	
59	Co	72	1	1.100 ppb	1.84	1.30	
60	Ni	72	1	2.273 ppb	4.14	2.60	
63	Cu	72	1	2.209 ppb	0.77	2.60	
66	Zn	72	1	10.540 ppb	1.25	13.00	
75	As	72	1	5.382 ppb	1.06	6.50	
78	Se	72	1	6.090 ppb	3.99	6.50	
95	Mo	72	1	2.172 ppb	1.87	2.60	
107	Ag	115	1	5.170 ppb	1.56	6.50	
111	Cd	115	1	1.072 ppb	1.39	1.30	
118	Sn	115	1	9.919 ppb	1.79	13.00	
121	Sb	115	1	2.109 ppb	0.49	2.60	
137	Ba	115	1	1.154 ppb	2.10	1.30	
205	Tl	165	1	1.112 ppb	1.70	1.30	
208	Pb	165	1	1.087 ppb	2.56	1.30	
232	Th	165	1	2.060 ppb	1.42	2.60	
238	U	165	1	1.046 ppb	0.65	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501829	1.55	534602	93.9	30 - 120	
45	Sc	1	2686559	1.23	2551677	105.3	30 - 120	
72	Ge	1	1666577	0.67	1553005	107.3	30 - 120	
115	In	1	4543393	1.35	4260602	106.6	30 - 120	
165	Ho	1	8957957	1.52	8806612	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\113SMPL.D\113SMPL.D#
Date Acquired:	Nov 9 2011 12:19 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-5-a
Misc Info:	
Vial Number:	3108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.08	0.08	ppb	125.53	3600	
51	V	72	1	6.05	6.05	ppb	0.98	3600	
52	Cr	72	1	3.29	3.29	ppb	0.35	3600	
55	Mn	72	1	19.25	19.25	ppb	0.92	18000	
59	Co	72	1	0.50	0.50	ppb	2.43	3600	
60	Ni	72	1	1.29	1.29	ppb	0.97	3600	
63	Cu	72	1	0.79	0.79	ppb	2.49	3600	
66	Zn	72	1	4.12	4.12	ppb	1.70	3600	
75	As	72	1	2.00	2.00	ppb	3.18	3600	
78	Se	72	1	0.52	0.52	ppb	28.68	3600	
95	Mo	72	1	0.22	0.22	ppb	7.03	3600	
107	Ag	115	1	0.01	0.01	ppb	29.92	3600	
111	Cd	115	1	0.04	0.04	ppb	6.08	3600	
118	Sn	115	1	0.10	0.10	ppb	13.84	3600	
121	Sb	115	1	0.03	0.03	ppb	22.34	3600	
137	Ba	115	1	2.45	2.45	ppb	2.87	3600	
205	Tl	165	1	0.06	0.06	ppb	2.80	3600	
208	Pb	165	1	2.77	2.77	ppb	0.73	3600	
232	Th	165	1	3.65	3.65	ppb	0.52	1000	
238	U	165	1	0.63	0.63	ppb	1.00	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497827	0.72	534602	93.1	30 - 120	
45	Sc	1	2654711	0.40	2551677	104.0	30 - 120	
72	Ge	1	1653534	0.51	1553005	106.5	30 - 120	
115	In	1	4512745	0.29	4260602	105.9	30 - 120	
165	Ho	1	8904111	0.41	8806612	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\114SMPL.D\114SMPL.D#
Date Acquired: Nov 9 2011 12:22 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-6-c
Misc Info:
Vial Number: 3109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	86.89	3600	
51	V	72	1	2.82	2.82	ppb	2.26	3600	
52	Cr	72	1	1.81	1.81	ppb	1.35	3600	
55	Mn	72	1	16.16	16.16	ppb	0.87	18000	
59	Co	72	1	0.27	0.27	ppb	3.71	3600	
60	Ni	72	1	0.75	0.75	ppb	0.30	3600	
63	Cu	72	1	0.74	0.74	ppb	3.54	3600	
66	Zn	72	1	7.93	7.93	ppb	0.37	3600	
75	As	72	1	1.12	1.12	ppb	1.74	3600	
78	Se	72	1	0.64	0.64	ppb	6.69	3600	
95	Mo	72	1	0.14	0.14	ppb	11.88	3600	
107	Ag	115	1	0.01	0.01	ppb	3.64	3600	
111	Cd	115	1	0.03	0.03	ppb	29.20	3600	
118	Sn	115	1	0.09	0.09	ppb	2.74	3600	
121	Sb	115	1	0.02	0.02	ppb	9.49	3600	
137	Ba	115	1	1.91	1.91	ppb	2.88	3600	
205	Tl	165	1	0.05	0.05	ppb	3.61	3600	
208	Pb	165	1	1.69	1.69	ppb	2.81	3600	
232	Th	165	1	1.30	1.30	ppb	1.57	1000	
238	U	165	1	0.29	0.29	ppb	2.00	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497654	0.88	534602	93.1	30 - 120	
45	Sc	1	2635704	1.24	2551677	103.3	30 - 120	
72	Ge	1	1652821	1.15	1553005	106.4	30 - 120	
115	In	1	4505564	0.73	4260602	105.7	30 - 120	
165	Ho	1	8975754	1.03	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\115SMPL.D\115SMPL.D#
Date Acquired: Nov 9 2011 12:25 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-7-c
Misc Info:
Vial Number: 3110
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.09	0.09	ppb	79.56	3600	
51	V	72	1	3.14	3.14	ppb	1.58	3600	
52	Cr	72	1	2.46	2.46	ppb	1.22	3600	
55	Mn	72	1	13.11	13.11	ppb	2.55	18000	
59	Co	72	1	0.35	0.35	ppb	1.24	3600	
60	Ni	72	1	0.98	0.98	ppb	4.59	3600	
63	Cu	72	1	0.84	0.84	ppb	0.74	3600	
66	Zn	72	1	4.14	4.14	ppb	1.61	3600	
75	As	72	1	1.08	1.08	ppb	1.46	3600	
78	Se	72	1	0.32	0.32	ppb	90.48	3600	
95	Mo	72	1	0.22	0.22	ppb	7.05	3600	
107	Ag	115	1	0.01	0.01	ppb	19.52	3600	
111	Cd	115	1	0.06	0.06	ppb	0.51	3600	
118	Sn	115	1	0.05	0.05	ppb	6.35	3600	
121	Sb	115	1	0.02	0.02	ppb	13.75	3600	
137	Ba	115	1	2.02	2.02	ppb	0.55	3600	
205	Tl	165	1	0.08	0.08	ppb	1.38	3600	
208	Pb	165	1	1.93	1.93	ppb	1.32	3600	
232	Th	165	1	1.03	1.03	ppb	2.43	1000	
238	U	165	1	0.29	0.29	ppb	3.18	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497471	0.61	534602	93.1	30 - 120	
45	Sc	1	2661261	0.72	2551677	104.3	30 - 120	
72	Ge	1	1646855	0.70	1553005	106.0	30 - 120	
115	In	1	4516267	1.00	4260602	106.0	30 - 120	
165	Ho	1	8957874	0.76	8806612	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\116SMPL.D\116SMPL.D#
Date Acquired:	Nov 9 2011 12:28 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-8-a
Misc Info:	
Vial Number:	3111
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.09	0.09	ppb	26.52	3600	
51	V	72	1	4.82	4.82	ppb	1.29	3600	
52	Cr	72	1	2.75	2.75	ppb	2.58	3600	
55	Mn	72	1	25.51	25.51	ppb	0.29	18000	
59	Co	72	1	0.61	0.61	ppb	0.74	3600	
60	Ni	72	1	1.49	1.49	ppb	1.36	3600	
63	Cu	72	1	0.81	0.81	ppb	1.63	3600	
66	Zn	72	1	4.48	4.48	ppb	1.93	3600	
75	As	72	1	1.58	1.58	ppb	1.71	3600	
78	Se	72	1	0.59	0.59	ppb	26.38	3600	
95	Mo	72	1	0.19	0.19	ppb	1.45	3600	
107	Ag	115	1	0.01	0.01	ppb	15.38	3600	
111	Cd	115	1	0.05	0.05	ppb	17.18	3600	
118	Sn	115	1	0.09	0.09	ppb	13.53	3600	
121	Sb	115	1	0.02	0.02	ppb	5.08	3600	
137	Ba	115	1	2.52	2.52	ppb	2.33	3600	
205	Tl	165	1	0.06	0.06	ppb	2.45	3600	
208	Pb	165	1	2.00	2.00	ppb	0.45	3600	
232	Th	165	1	1.16	1.16	ppb	0.80	1000	
238	U	165	1	0.35	0.35	ppb	1.52	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497015	2.08	534602	93.0	30 - 120	
45	Sc	1	2636232	0.36	2551677	103.3	30 - 120	
72	Ge	1	1662600	0.54	1553005	107.1	30 - 120	
115	In	1	4522248	0.79	4260602	106.1	30 - 120	
165	Ho	1	8904540	0.07	8806612	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\117SMPL.D\117SMPL.D#
Date Acquired:	Nov 9 2011 12:31 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-9-c
Misc Info:	
Vial Number:	3112
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.09	0.09	ppb	58.45	3600	
51	V	72	1	4.89	4.89	ppb	1.76	3600	
52	Cr	72	1	2.76	2.76	ppb	2.10	3600	
55	Mn	72	1	16.98	16.98	ppb	0.86	18000	
59	Co	72	1	0.46	0.46	ppb	1.68	3600	
60	Ni	72	1	1.17	1.17	ppb	5.29	3600	
63	Cu	72	1	0.67	0.67	ppb	4.89	3600	
66	Zn	72	1	3.52	3.52	ppb	0.46	3600	
75	As	72	1	1.61	1.61	ppb	3.93	3600	
78	Se	72	1	0.41	0.41	ppb	24.62	3600	
95	Mo	72	1	0.15	0.15	ppb	16.83	3600	
107	Ag	115	1	0.01	0.01	ppb	34.02	3600	
111	Cd	115	1	0.03	0.03	ppb	15.48	3600	
118	Sn	115	1	0.05	0.05	ppb	11.43	3600	
121	Sb	115	1	0.02	0.02	ppb	6.93	3600	
137	Ba	115	1	2.18	2.18	ppb	2.72	3600	
205	Tl	165	1	0.04	0.04	ppb	4.79	3600	
208	Pb	165	1	2.05	2.05	ppb	0.88	3600	
232	Th	165	1	1.48	1.48	ppb	1.49	1000	
238	U	165	1	0.39	0.39	ppb	1.54	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	495725	0.97	534602	92.7	30 - 120	
45	Sc	1	2618512	1.44	2551677	102.6	30 - 120	
72	Ge	1	1640701	0.62	1553005	105.6	30 - 120	
115	In	1	4505438	1.12	4260602	105.7	30 - 120	
165	Ho	1	8956596	0.75	8806612	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\118SMPL.D\118SMPL.D#
Date Acquired: Nov 9 2011 12:34 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-10-c
Misc Info:
Vial Number: 3201
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.11	0.11	ppb	23.29	3600	
51	V	72	1	4.29	4.29	ppb	1.67	3600	
52	Cr	72	1	2.35	2.35	ppb	3.39	3600	
55	Mn	72	1	19.48	19.48	ppb	0.76	18000	
59	Co	72	1	0.50	0.50	ppb	3.34	3600	
60	Ni	72	1	1.26	1.26	ppb	1.48	3600	
63	Cu	72	1	0.76	0.76	ppb	3.72	3600	
66	Zn	72	1	4.26	4.26	ppb	1.63	3600	
75	As	72	1	1.52	1.52	ppb	0.31	3600	
78	Se	72	1	0.55	0.55	ppb	45.94	3600	
95	Mo	72	1	0.15	0.15	ppb	1.91	3600	
107	Ag	115	1	0.01	0.01	ppb	23.84	3600	
111	Cd	115	1	0.04	0.04	ppb	18.09	3600	
118	Sn	115	1	0.04	0.04	ppb	7.67	3600	
121	Sb	115	1	0.02	0.02	ppb	10.12	3600	
137	Ba	115	1	2.05	2.05	ppb	1.52	3600	
205	Tl	165	1	0.05	0.05	ppb	5.78	3600	
208	Pb	165	1	1.51	1.51	ppb	1.06	3600	
232	Th	165	1	1.00	1.00	ppb	1.29	1000	
238	U	165	1	0.33	0.33	ppb	0.66	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	494841	0.74	534602	92.6	30 - 120	
45	Sc	1	2631508	0.66	2551677	103.1	30 - 120	
72	Ge	1	1643279	1.42	1553005	105.8	30 - 120	
115	In	1	4502726	0.79	4260602	105.7	30 - 120	
165	Ho	1	8881979	1.32	8806612	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\119SMPL.D\119SMPL.D#
Date Acquired:	Nov 9 2011 12:37 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-11-c
Misc Info:	
Vial Number:	3202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.10	0.10	ppb	13.07	3600	
51	V	72	1	5.92	5.92	ppb	0.64	3600	
52	Cr	72	1	3.28	3.28	ppb	1.61	3600	
55	Mn	72	1	17.06	17.06	ppb	1.47	18000	
59	Co	72	1	0.48	0.48	ppb	2.38	3600	
60	Ni	72	1	1.53	1.53	ppb	1.27	3600	
63	Cu	72	1	0.82	0.82	ppb	3.59	3600	
66	Zn	72	1	4.72	4.72	ppb	1.13	3600	
75	As	72	1	2.04	2.04	ppb	3.63	3600	
78	Se	72	1	0.53	0.53	ppb	60.16	3600	
95	Mo	72	1	0.17	0.17	ppb	5.92	3600	
107	Ag	115	1	0.01	0.01	ppb	8.78	3600	
111	Cd	115	1	0.03	0.03	ppb	15.76	3600	
118	Sn	115	1	0.05	0.05	ppb	9.15	3600	
121	Sb	115	1	0.03	0.03	ppb	12.84	3600	
137	Ba	115	1	2.28	2.28	ppb	3.37	3600	
205	Tl	165	1	0.05	0.05	ppb	3.53	3600	
208	Pb	165	1	2.62	2.62	ppb	2.69	3600	
232	Th	165	1	1.95	1.95	ppb	0.72	1000	
238	U	165	1	0.47	0.47	ppb	0.79	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489702	0.13	534602	91.6	30 - 120	
45	Sc	1	2589482	0.91	2551677	101.5	30 - 120	
72	Ge	1	1653343	0.24	1553005	106.5	30 - 120	
115	In	1	4500992	1.68	4260602	105.6	30 - 120	
165	Ho	1	8866161	1.96	8806612	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\120SMPL.D\120SMPL.D#
Date Acquired: Nov 9 2011 12:40 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22000-a-12-e
Misc Info:
Vial Number: 3203
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.08	0.08	ppb	48.87	3600	
51	V	72	1	7.74	7.74	ppb	0.63	3600	
52	Cr	72	1	3.77	3.77	ppb	0.35	3600	
55	Mn	72	1	16.49	16.49	ppb	1.75	18000	
59	Co	72	1	1.00	1.00	ppb	2.45	3600	
60	Ni	72	1	1.96	1.96	ppb	4.09	3600	
63	Cu	72	1	0.87	0.87	ppb	1.46	3600	
66	Zn	72	1	4.74	4.74	ppb	0.96	3600	
75	As	72	1	2.42	2.42	ppb	3.73	3600	
78	Se	72	1	0.28	0.28	ppb	63.13	3600	
95	Mo	72	1	0.23	0.23	ppb	5.00	3600	
107	Ag	115	1	0.01	0.01	ppb	21.72	3600	
111	Cd	115	1	0.03	0.03	ppb	13.52	3600	
118	Sn	115	1	0.05	0.05	ppb	24.93	3600	
121	Sb	115	1	0.02	0.02	ppb	12.95	3600	
137	Ba	115	1	5.18	5.18	ppb	2.45	3600	
205	Tl	165	1	0.05	0.05	ppb	2.51	3600	
208	Pb	165	1	2.25	2.25	ppb	1.67	3600	
232	Th	165	1	1.60	1.60	ppb	2.29	1000	
238	U	165	1	0.35	0.35	ppb	1.53	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492297	2.15	534602	92.1	30 - 120	
45	Sc	1	2636811	0.87	2551677	103.3	30 - 120	
72	Ge	1	1633150	0.81	1553005	105.2	30 - 120	
115	In	1	4518473	1.89	4260602	106.1	30 - 120	
165	Ho	1	8853913	0.78	8806612	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\121SMPL.D\121SMPL.D#
Date Acquired:	Nov 9 2011 12:42 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22000-a-13-a
Misc Info:	
Vial Number:	3204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.10	0.10	ppb	22.88	3600	
51	V	72	1	4.99	4.99	ppb	2.02	3600	
52	Cr	72	1	2.09	2.09	ppb	1.37	3600	
55	Mn	72	1	21.48	21.48	ppb	2.95	18000	
59	Co	72	1	0.38	0.38	ppb	2.81	3600	
60	Ni	72	1	0.97	0.97	ppb	6.19	3600	
63	Cu	72	1	0.60	0.60	ppb	2.10	3600	
66	Zn	72	1	4.34	4.34	ppb	1.16	3600	
75	As	72	1	1.90	1.90	ppb	3.68	3600	
78	Se	72	1	0.29	0.29	ppb	88.72	3600	
95	Mo	72	1	0.20	0.20	ppb	6.72	3600	
107	Ag	115	1	0.01	0.01	ppb	23.18	3600	
111	Cd	115	1	0.03	0.03	ppb	37.12	3600	
118	Sn	115	1	0.07	0.07	ppb	30.46	3600	
121	Sb	115	1	0.02	0.02	ppb	19.22	3600	
137	Ba	115	1	2.01	2.01	ppb	3.52	3600	
205	Tl	165	1	0.05	0.05	ppb	2.22	3600	
208	Pb	165	1	1.42	1.42	ppb	1.09	3600	
232	Th	165	1	1.43	1.43	ppb	1.18	1000	
238	U	165	1	0.31	0.31	ppb	1.74	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497376	1.11	534602	93.0	30 - 120	
45	Sc	1	2645868	1.51	2551677	103.7	30 - 120	
72	Ge	1	1633393	0.92	1553005	105.2	30 - 120	
115	In	1	4455632	1.45	4260602	104.6	30 - 120	
165	Ho	1	8836827	1.09	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\122_CCV.D\122_CCV.D#
Date Acquired:	Nov 9 2011 12:45 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.07	ppb	2.43	50	106.1	90 - 110	
51	V	72	1	51.16	ppb	1.69	50	102.3	90 - 110	
52	Cr	72	1	50.38	ppb	1.55	50	100.8	90 - 110	
55	Mn	72	1	51.99	ppb	2.03	50	104.0	90 - 110	
59	Co	72	1	50.99	ppb	0.98	50	102.0	90 - 110	
60	Ni	72	1	50.17	ppb	1.17	50	100.3	90 - 110	
63	Cu	72	1	50.12	ppb	0.68	50	100.2	90 - 110	
66	Zn	72	1	50.13	ppb	1.66	50	100.3	90 - 110	
75	As	72	1	51.48	ppb	0.78	50	103.0	90 - 110	
78	Se	72	1	52.74	ppb	0.23	50	105.5	90 - 110	
95	Mo	72	1	50.69	ppb	2.98	50	101.4	90 - 110	
107	Ag	115	1	50.40	ppb	2.31	50	100.8	90 - 110	
111	Cd	115	1	49.66	ppb	0.51	50	99.3	90 - 110	
118	Sn	115	1	48.66	ppb	0.76	50	97.3	90 - 110	
121	Sb	115	1	49.60	ppb	0.93	50	99.2	90 - 110	
137	Ba	115	1	51.43	ppb	1.31	50	102.9	90 - 110	
205	Tl	165	1	50.52	ppb	0.69	50	101.0	90 - 110	
208	Pb	165	1	48.81	ppb	0.94	50	97.6	90 - 110	
232	Th	165	1	48.90	ppb	1.62	50	97.8	90 - 110	
238	U	165	1	48.45	ppb	1.59	50	96.9	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496942	1.12	534602	93.0	30 - 120	
45	Sc	1	2628711	1.73	2551677	103.0	30 - 120	
72	Ge	1	1617936	1.33	1553005	104.2	30 - 120	
115	In	1	4493756	1.04	4260602	105.5	30 - 120	
165	Ho	1	8910820	0.73	8806612	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\123_CCB.D\123_CCB.D#
Date Acquired:	Nov 9 2011 12:48 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	2617.10	1.00	
51	V	72	1	0.021	ppb	66.76	1.00	
52	Cr	72	1	-0.001	ppb	1225.40	1.00	
55	Mn	72	1	0.024	ppb	36.24	1.00	
59	Co	72	1	0.006	ppb	22.82	1.00	
60	Ni	72	1	-0.023	ppb	9.03	1.00	
63	Cu	72	1	-0.006	ppb	154.18	1.00	
66	Zn	72	1	-0.022	ppb	15.37	1.00	
75	As	72	1	0.012	ppb	43.85	1.00	
78	Se	72	1	0.254	ppb	113.86	1.00	
95	Mo	72	1	0.011	ppb	66.94	1.00	
107	Ag	115	1	0.009	ppb	13.65	1.00	
111	Cd	115	1	0.003	ppb	114.94	1.00	
118	Sn	115	1	0.003	ppb	316.17	1.00	
121	Sb	115	1	0.016	ppb	11.94	1.00	
137	Ba	115	1	0.016	ppb	22.61	1.00	
205	Tl	165	1	0.009	ppb	12.69	1.00	
208	Pb	165	1	0.006	ppb	17.77	1.00	
232	Th	165	1	0.031	ppb	9.59	1.00	
238	U	165	1	0.008	ppb	11.04	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497453	1.22	534602	93.1	30 - 120	
45	Sc	1	2666478	1.29	2551677	104.5	30 - 120	
72	Ge	1	1662412	0.98	1553005	107.0	30 - 120	
115	In	1	4480673	0.66	4260602	105.2	30 - 120	
165	Ho	1	8935519	1.38	8806612	101.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\124WASH.D\124WASH.D#
Date Acquired: Nov 9 2011 12:51 am
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.026 ppb	4.32	1.30	
51	V	72	1	5.033 ppb	1.85	6.50	
52	Cr	72	1	2.203 ppb	2.12	2.60	
55	Mn	72	1	1.248 ppb	2.58	1.30	
59	Co	72	1	1.093 ppb	1.48	1.30	
60	Ni	72	1	2.289 ppb	0.57	2.60	
63	Cu	72	1	2.164 ppb	3.32	2.60	
66	Zn	72	1	10.400 ppb	1.53	13.00	
75	As	72	1	5.401 ppb	1.23	6.50	
78	Se	72	1	6.064 ppb	14.34	6.50	
95	Mo	72	1	2.164 ppb	3.37	2.60	
107	Ag	115	1	5.016 ppb	1.86	6.50	
111	Cd	115	1	1.068 ppb	2.04	1.30	
118	Sn	115	1	9.967 ppb	1.36	13.00	
121	Sb	115	1	2.123 ppb	1.50	2.60	
137	Ba	115	1	1.174 ppb	1.36	1.30	
205	Tl	165	1	1.119 ppb	0.57	1.30	
208	Pb	165	1	1.083 ppb	1.07	1.30	
232	Th	165	1	2.091 ppb	0.63	2.60	
238	U	165	1	1.065 ppb	0.82	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497392	0.74	534602	93.0	30 - 120	
45	Sc	1	2666275	1.02	2551677	104.5	30 - 120	
72	Ge	1	1649020	1.93	1553005	106.2	30 - 120	
115	In	1	4536945	0.36	4260602	106.5	30 - 120	
165	Ho	1	8868872	0.62	8806612	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\125_BLK.D\125_BLK.D#
Date Acquired:	Nov 9 2011 12:54 am
Operator:	LRD
Sample Name:	mb 280-93867/1-a
Misc Info:	BLANK 93867 AFCEE4
Vial Number:	3205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	BLK
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	0.004 ppb	333.49	2.00	
51	V	72	1	0.002 ppb	269.70	2.00	
52	Cr	72	1	0.082 ppb	7.83	2.00	
55	Mn	72	1	0.208 ppb	5.74	2.00	
59	Co	72	1	0.002 ppb	27.11	2.00	
60	Ni	72	1	-0.007 ppb	27.79	2.00	
63	Cu	72	1	0.032 ppb	13.22	2.00	
66	Zn	72	1	1.318 ppb	3.40	2.00	
75	As	72	1	0.004 ppb	64.51	2.00	
78	Se	72	1	0.510 ppb	28.59	2.00	
95	Mo	72	1	-0.003 ppb	155.78	2.00	
107	Ag	115	1	0.004 ppb	19.04	2.00	
111	Cd	115	1	0.002 ppb	181.81	2.00	
118	Sn	115	1	0.052 ppb	10.66	2.00	
121	Sb	115	1	0.006 ppb	55.94	2.00	
137	Ba	115	1	0.070 ppb	13.88	2.00	
205	Tl	165	1	0.003 ppb	20.42	2.00	
208	Pb	165	1	0.010 ppb	10.16	2.00	
232	Th	165	1	0.016 ppb	21.93	2.00	
238	U	165	1	0.003 ppb	8.72	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	511070	1.33	534602	95.6	30 - 120	
45	Sc	1	2718736	2.05	2551677	106.5	30 - 120	
72	Ge	1	1687091	2.17	1553005	108.6	30 - 120	
115	In	1	4608443	0.84	4260602	108.2	30 - 120	
165	Ho	1	9025307	1.37	8806612	102.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\126_LCS.D\126_LCS.D#
Date Acquired:	Nov 9 2011 12:57 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-93867/2-a
Misc Info:	LCS
Vial Number:	3206
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	42.87	1.57	40	107.2	80 - 120	
51	V	72	1	41.86	1.14	40	104.7	80 - 120	
52	Cr	72	1	41.17	1.00	40	102.9	80 - 120	
55	Mn	72	1	40.86	0.43	40	102.2	80 - 120	
59	Co	72	1	41.63	0.48	40	104.1	80 - 120	
60	Ni	72	1	40.69	0.61	40	101.7	80 - 120	
63	Cu	72	1	40.00	0.80	40	100.0	80 - 120	
66	Zn	72	1	39.95	0.17	40	99.9	80 - 120	
75	As	72	1	40.51	0.50	40	101.3	80 - 120	
78	Se	72	1	41.11	0.98	40	102.8	80 - 120	
95	Mo	72	1	41.94	1.51	40	104.9	80 - 120	
107	Ag	115	1	41.62	3.31	40	104.1	80 - 120	
111	Cd	115	1	40.29	2.62	40	100.7	80 - 120	
118	Sn	115	1	40.25	2.78	40	100.6	80 - 120	
121	Sb	115	1	39.90	1.71	40	99.8	80 - 120	
137	Ba	115	1	42.81	1.48	40	107.0	80 - 120	
205	Tl	165	1	42.30	1.75	40	105.8	80 - 120	
208	Pb	165	1	40.99	1.35	40	102.5	80 - 120	
232	Th	165	1	40.81	0.65	40	102.0	80 - 120	
238	U	165	1	40.94	0.85	40	102.4	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	513669	1.13	534602	96.1	30 - 120	
45	Sc	1	2711954	1.60	2551677	106.3	30 - 120	
72	Ge	1	1689209	0.84	1553005	108.8	30 - 120	
115	In	1	4608163	2.26	4260602	108.2	30 - 120	
165	Ho	1	9036402	1.15	8806612	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Labratory Control Spike Duplicate Sample (LCSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\127LCSD.D\127LCSD.D#
Date Acquired:	Nov 9 2011 01:00 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcsd 280-93867/3-a
Misc Info:	LCSD
Vial Number:	3207
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\126_LCS.D\126_LCS.D#

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	Ref Conc	(%)Dif	Max(%)Dif	Flag
9 Be	6	1	43.18 ppb	3.80	42.87	0.72	2000	
51 V	72	1	41.28 ppb	0.51	41.86	1.40	2000	
52 Cr	72	1	41.05 ppb	0.61	41.17	0.29	2000	
55 Mn	72	1	41.49 ppb	2.08	40.86	1.53	2000	
59 Co	72	1	41.60 ppb	1.00	41.63	0.07	2000	
60 Ni	72	1	41.14 ppb	1.47	40.69	1.10	2000	
63 Cu	72	1	40.29 ppb	1.63	40.00	0.72	2000	
66 Zn	72	1	39.79 ppb	0.74	39.95	0.40	2000	
75 As	72	1	40.88 ppb	0.44	40.51	0.91	2000	
78 Se	72	1	42.14 ppb	1.74	41.11	2.47	2000	
95 Mo	72	1	41.86 ppb	1.04	41.94	0.19	2000	
107 Ag	115	1	42.24 ppb	1.50	41.62	1.48	2000	
111 Cd	115	1	40.24 ppb	0.57	40.29	0.12	2000	
118 Sn	115	1	40.21 ppb	0.90	40.25	0.10	2000	
121 Sb	115	1	40.05 ppb	0.31	39.90	0.38	2000	
137 Ba	115	1	42.35 ppb	0.41	42.81	1.08	2000	
205 Tl	165	1	42.67 ppb	0.29	42.30	0.87	2000	
208 Pb	165	1	41.06 ppb	0.42	40.99	0.17	2000	
232 Th	165	1	41.79 ppb	1.79	40.81	2.37	2000	
238 U	165	1	40.50 ppb	0.90	40.94	1.08	2000	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	506763	0.66	534602	94.8	30 - 120	
45 Sc	1	2694516	1.58	2551677	105.6	30 - 120	
72 Ge	1	1672175	1.37	1553005	107.7	30 - 120	
115 In	1	4585091	0.61	4260602	107.6	30 - 120	
165 Ho	1	9034486	0.46	8806612	102.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\128AREF.D\128AREF.D#
Date Acquired:	Nov 9 2011 01:03 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-21945-a-20-c 20X
Misc Info:	
Vial Number:	3208
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	AllRef
Dilution Factor:	20.00
Autodil Factor:	Undiluted
Final Dil Factor:	20.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	128.64	6.43	ppb	4.20	3600	
51	V	72	1	1,503.60	75.18	ppb	1.35	3600	
52	Cr	72	1	916.40	45.82	ppb	1.38	3600	
55	Mn	72	1	717.80	35.89	ppb	1.06	18000	
59	Co	72	1	677.00	33.85	ppb	1.55	3600	
60	Ni	72	1	633.40	31.67	ppb	0.73	3600	
63	Cu	72	1	817.80	40.89	ppb	0.58	3600	
66	Zn	72	1	1,477.40	73.87	ppb	0.74	3600	
75	As	72	1	891.40	44.57	ppb	0.72	3600	
78	Se	72	1	576.20	28.81	ppb	1.70	3600	
95	Mo	72	1	355.40	17.77	ppb	0.62	3600	
107	Ag	115	1	196.64	9.83	ppb	0.17	3600	
111	Cd	115	1	88.76	4.44	ppb	1.61	3600	
118	Sn	115	1	0.53	0.03	ppb	35.52	3600	
121	Sb	115	1	956.60	47.83	ppb	0.75	3600	
137	Ba	115	1	1,155.80	57.79	ppb	0.48	3600	
205	Tl	165	1	812.60	40.63	ppb	0.97	3600	
208	Pb	165	1	346.40	17.32	ppb	1.24	3600	
232	Th	165	1	0.79	0.04	ppb	3.97	1000	
238	U	165	1	0.16	0.01	ppb	12.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	503333	1.02	534602	94.2	30 - 120	
45	Sc	1	2618749	1.24	2551677	102.6	30 - 120	
72	Ge	1	1656631	0.21	1553005	106.7	30 - 120	
115	In	1	4491477	0.43	4260602	105.4	30 - 120	
165	Ho	1	8970130	1.45	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\129SDIL.D\129SDIL.D#
Date Acquired: Nov 9 2011 01:06 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-21945-a-20-c SD@100
Misc Info: SERIAL DILUTION
Vial Number: 3209
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 08 2011 07:04 pm
Sample Type: SDIL
Dilution Factor: 20.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\128AREF.D\128AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	1.30	ppb	10.19	1.29	100.9	90 - 110	
51	V	72	1	14.63	ppb	1.47	15.04	97.3	90 - 110	
52	Cr	72	1	8.76	ppb	1.15	9.16	95.6	90 - 110	
55	Mn	72	1	7.17	ppb	1.91	7.18	99.8	90 - 110	
59	Co	72	1	6.59	ppb	1.65	6.77	97.4	90 - 110	
60	Ni	72	1	6.34	ppb	1.91	6.33	100.1	90 - 110	
63	Cu	72	1	8.13	ppb	0.51	8.18	99.5	90 - 110	
66	Zn	72	1	14.74	ppb	0.64	14.77	99.8	90 - 110	
75	As	72	1	8.93	ppb	1.50	8.91	100.2	90 - 110	
78	Se	72	1	5.93	ppb	7.33	5.76	103.0	90 - 110	
95	Mo	72	1	3.51	ppb	2.50	3.55	98.8	90 - 110	
107	Ag	115	1	1.91	ppb	2.96	1.97	96.9	90 - 110	
111	Cd	115	1	0.88	ppb	4.45	0.89	99.6	90 - 110	
118	Sn	115	1	0.05	ppb	17.71	0.01	877.3	90 - 110	
121	Sb	115	1	9.47	ppb	1.30	9.57	99.0	90 - 110	
137	Ba	115	1	11.36	ppb	2.75	11.56	98.3	90 - 110	
205	Tl	165	1	8.03	ppb	0.49	8.13	98.8	90 - 110	
208	Pb	165	1	3.47	ppb	0.84	3.46	100.2	90 - 110	
232	Th	165	1	0.01	ppb	11.81	0.01	184.4	90 - 110	
238	U	165	1	0.00	ppb	9.31	0.00	184.3	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	499335	1.14	534602	93.4	30 - 120	
45	Sc	1	2645613	2.17	2551677	103.7	30 - 120	
72	Ge	1	1628922	0.76	1553005	104.9	30 - 120	
115	In	1	4508159	1.43	4260602	105.8	30 - 120	
165	Ho	1	8849027	0.53	8806612	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\130PDS.D\130PDS.D#		
Date Acquired:	Nov 9 2011 01:09 am	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	LRD	ISTD:	Pass
Sample Name:	280-21945-a-20-c PDS		
Misc Info:	POST DIGESTION SPIKE		
Vial Number:	3210		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 07:04 pm		
Sample Type:	PDS		
Prep Dil. Factor:	20.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	20.00		

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	218.90	6.43	ppb	0.76	200	106.0	75 - 125	
51 V	72	1	264.30	75.18	ppb	0.20	200	96.0	75 - 125	
52 Cr	72	1	234.20	45.82	ppb	1.28	200	95.3	75 - 125	
55 Mn	72	1	232.70	35.89	ppb	0.98	200	98.6	75 - 125	
59 Co	72	1	224.20	33.85	ppb	1.19	200	95.9	75 - 125	
60 Ni	72	1	235.60	31.67	ppb	1.03	200	101.7	75 - 125	
63 Cu	72	1	228.50	40.89	ppb	1.54	200	94.9	75 - 125	
66 Zn	72	1	269.20	73.87	ppb	1.87	200	98.3	75 - 125	
75 As	72	1	246.60	44.57	ppb	1.46	200	100.8	75 - 125	
78 Se	72	1	231.20	28.81	ppb	1.83	200	101.0	75 - 125	
95 Mo	72	1	219.80	17.77	ppb	0.71	200	100.9	75 - 125	
107 Ag	115	1	60.11	9.83	ppb	3.20	50	100.5	75 - 125	
111 Cd	115	1	204.40	4.44	ppb	1.96	200	100.0	75 - 125	
118 Sn	115	1	198.60	0.03	ppb	2.45	200	99.3	75 - 125	
121 Sb	115	1	246.60	47.83	ppb	1.90	200	99.5	75 - 125	
137 Ba	115	1	265.20	57.79	ppb	2.42	200	102.9	75 - 125	
205 Tl	165	1	240.80	40.63	ppb	1.00	200	100.1	75 - 125	
208 Pb	165	1	215.30	17.32	ppb	0.89	200	99.1	75 - 125	
232 Th	165	1	0.06	0.04	ppb	1.40	200	0.0	75 - 125	
238 U	165	1	194.20	0.01	ppb	2.01	200	97.1	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	498432	1.28	534602	93.2	30 - 120	
45 Sc	1	2624929	1.91	2551677	102.9	30 - 120	
72 Ge	1	1641792	1.38	1553005	105.7	30 - 120	
115 In	1	4505005	1.68	4260602	105.7	30 - 120	
165 Ho	1	8791807	1.57	8806612	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\131_CCV.D\131_CCV.D#
Date Acquired:	Nov 9 2011 01:11 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.64	ppb	1.81	50	107.3	90 - 110	
51	V	72	1	50.93	ppb	0.99	50	101.9	90 - 110	
52	Cr	72	1	49.97	ppb	1.47	50	99.9	90 - 110	
55	Mn	72	1	50.80	ppb	0.92	50	101.6	90 - 110	
59	Co	72	1	50.72	ppb	1.56	50	101.4	90 - 110	
60	Ni	72	1	49.75	ppb	1.02	50	99.5	90 - 110	
63	Cu	72	1	48.85	ppb	2.15	50	97.7	90 - 110	
66	Zn	72	1	49.30	ppb	0.46	50	98.6	90 - 110	
75	As	72	1	50.71	ppb	0.32	50	101.4	90 - 110	
78	Se	72	1	53.18	ppb	3.68	50	106.4	90 - 110	
95	Mo	72	1	50.43	ppb	0.19	50	100.9	90 - 110	
107	Ag	115	1	50.77	ppb	2.86	50	101.5	90 - 110	
111	Cd	115	1	49.46	ppb	0.10	50	98.9	90 - 110	
118	Sn	115	1	48.16	ppb	0.80	50	96.3	90 - 110	
121	Sb	115	1	49.19	ppb	0.46	50	98.4	90 - 110	
137	Ba	115	1	50.81	ppb	0.72	50	101.6	90 - 110	
205	Tl	165	1	50.62	ppb	0.24	50	101.2	90 - 110	
208	Pb	165	1	49.28	ppb	0.87	50	98.6	90 - 110	
232	Th	165	1	49.44	ppb	1.20	50	98.9	90 - 110	
238	U	165	1	49.12	ppb	2.03	50	98.2	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	493329	0.45	534602	92.3	30 - 120	
45	Sc	1	2606181	1.80	2551677	102.1	30 - 120	
72	Ge	1	1608239	1.31	1553005	103.6	30 - 120	
115	In	1	4430085	1.19	4260602	104.0	30 - 120	
165	Ho	1	8808278	0.35	8806612	100.0	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\132_CCB.D\132_CCB.D#
Date Acquired: Nov 9 2011 01:14 am
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.009	ppb	144.56	1.00	
51	V	72	1	0.021	ppb	80.37	1.00	
52	Cr	72	1	0.008	ppb	53.76	1.00	
55	Mn	72	1	0.019	ppb	9.29	1.00	
59	Co	72	1	0.010	ppb	28.35	1.00	
60	Ni	72	1	-0.014	ppb	40.72	1.00	
63	Cu	72	1	0.003	ppb	43.22	1.00	
66	Zn	72	1	-0.015	ppb	26.77	1.00	
75	As	72	1	0.019	ppb	72.35	1.00	
78	Se	72	1	0.217	ppb	54.06	1.00	
95	Mo	72	1	0.021	ppb	39.16	1.00	
107	Ag	115	1	0.012	ppb	19.05	1.00	
111	Cd	115	1	0.012	ppb	52.05	1.00	
118	Sn	115	1	0.047	ppb	41.80	1.00	
121	Sb	115	1	0.044	ppb	20.99	1.00	
137	Ba	115	1	0.017	ppb	30.17	1.00	
205	Tl	165	1	0.037	ppb	4.25	1.00	
208	Pb	165	1	0.013	ppb	7.16	1.00	
232	Th	165	1	0.042	ppb	7.53	1.00	
238	U	165	1	0.014	ppb	11.22	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	496976	0.77	534602	93.0	30 - 120	
45	Sc	1	2610147	0.50	2551677	102.3	30 - 120	
72	Ge	1	1614244	1.42	1553005	103.9	30 - 120	
115	In	1	4441355	0.66	4260602	104.2	30 - 120	
165	Ho	1	8800113	0.94	8806612	99.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\133WASH.D\133WASH.D#
Date Acquired: Nov 9 2011 01:17 am
Operator: LRD
Sample Name: LLICV-1118468
Misc Info:
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.120 ppb	6.79	1.30	
51	V	72	1	4.912 ppb	1.71	6.50	
52	Cr	72	1	2.149 ppb	1.40	2.60	
55	Mn	72	1	1.224 ppb	3.61	1.30	
59	Co	72	1	1.106 ppb	2.42	1.30	
60	Ni	72	1	2.237 ppb	5.04	2.60	
63	Cu	72	1	2.171 ppb	1.41	2.60	
66	Zn	72	1	10.370 ppb	0.79	13.00	
75	As	72	1	5.270 ppb	0.75	6.50	
78	Se	72	1	5.373 ppb	12.98	6.50	
95	Mo	72	1	2.164 ppb	1.97	2.60	
107	Ag	115	1	5.014 ppb	0.67	6.50	
111	Cd	115	1	1.057 ppb	2.43	1.30	
118	Sn	115	1	9.813 ppb	1.64	13.00	
121	Sb	115	1	2.120 ppb	0.14	2.60	
137	Ba	115	1	1.140 ppb	1.21	1.30	
205	Tl	165	1	1.123 ppb	1.12	1.30	
208	Pb	165	1	1.105 ppb	0.64	1.30	
232	Th	165	1	2.080 ppb	1.87	2.60	
238	U	165	1	1.072 ppb	0.03	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	492522	1.60	534602	92.1	30 - 120	
45	Sc	1	2616803	0.24	2551677	102.6	30 - 120	
72	Ge	1	1624289	1.29	1553005	104.6	30 - 120	
115	In	1	4488955	0.46	4260602	105.4	30 - 120	
165	Ho	1	8757178	0.33	8806612	99.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\134_BLK.D\134_BLK.D#
Date Acquired: Nov 9 2011 01:20 am
Operator: LRD
Sample Name: mb 280-94961/1-a
Misc Info: BLANK 94961 DoD4/ 6020A
Vial Number: 3211
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.017	ppb	41.52	2.00	
51	V	72	1	0.028	ppb	51.33	2.00	
52	Cr	72	1	0.101	ppb	21.06	2.00	
55	Mn	72	1	0.142	ppb	11.16	2.00	
59	Co	72	1	0.007	ppb	48.84	2.00	
60	Ni	72	1	-0.002	ppb	509.03	2.00	
63	Cu	72	1	0.016	ppb	11.27	2.00	
66	Zn	72	1	1.089	ppb	2.93	2.00	
75	As	72	1	0.015	ppb	10.83	2.00	
78	Se	72	1	0.175	ppb	41.24	2.00	
95	Mo	72	1	0.003	ppb	55.50	2.00	
107	Ag	115	1	0.006	ppb	26.81	2.00	
111	Cd	115	1	0.005	ppb	48.11	2.00	
118	Sn	115	1	0.039	ppb	29.17	2.00	
121	Sb	115	1	0.022	ppb	3.36	2.00	
137	Ba	115	1	0.030	ppb	8.91	2.00	
205	Tl	165	1	0.024	ppb	11.91	2.00	
208	Pb	165	1	0.014	ppb	14.92	2.00	
232	Th	165	1	0.024	ppb	9.22	2.00	
238	U	165	1	0.006	ppb	18.39	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	507652	1.33	534602	95.0	30 - 120	
45	Sc	1	2698661	1.34	2551677	105.8	30 - 120	
72	Ge	1	1645671	0.80	1553005	106.0	30 - 120	
115	In	1	4543819	0.80	4260602	106.6	30 - 120	
165	Ho	1	8954294	1.56	8806612	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\135_LCS.D\135_LCS.D#
Date Acquired:	Nov 9 2011 01:23 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-94961/2-a
Misc Info:	LCS
Vial Number:	3212
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	42.16	2.79	40	105.4	80 - 120	
51	V	72	1	41.68	1.87	40	104.2	80 - 120	
52	Cr	72	1	42.08	0.48	40	105.2	80 - 120	
55	Mn	72	1	41.61	1.41	40	104.0	80 - 120	
59	Co	72	1	41.88	1.33	40	104.7	80 - 120	
60	Ni	72	1	41.07	0.84	40	102.7	80 - 120	
63	Cu	72	1	40.44	1.53	40	101.1	80 - 120	
66	Zn	72	1	39.91	0.92	40	99.8	80 - 120	
75	As	72	1	40.69	0.47	40	101.7	80 - 120	
78	Se	72	1	41.54	3.24	40	103.9	80 - 120	
95	Mo	72	1	42.48	0.44	40	106.2	80 - 120	
107	Ag	115	1	41.21	1.41	40	103.0	80 - 120	
111	Cd	115	1	39.78	0.48	40	99.5	80 - 120	
118	Sn	115	1	39.75	0.92	40	99.4	80 - 120	
121	Sb	115	1	39.63	0.34	40	99.1	80 - 120	
137	Ba	115	1	42.11	0.30	40	105.3	80 - 120	
205	Tl	165	1	42.25	1.05	40	105.6	80 - 120	
208	Pb	165	1	40.89	0.97	40	102.2	80 - 120	
232	Th	165	1	41.89	2.39	40	104.7	80 - 120	
238	U	165	1	41.02	1.08	40	102.6	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	507380	0.87	534602	94.9	30 - 120	
45	Sc	1	2658513	2.88	2551677	104.2	30 - 120	
72	Ge	1	1619721	0.70	1553005	104.3	30 - 120	
115	In	1	4519826	0.20	4260602	106.1	30 - 120	
165	Ho	1	8908609	0.33	8806612	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\136AREF.D\136AREF.D#
Date Acquired:	Nov 9 2011 01:26 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a
Misc Info:	
Vial Number:	3301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	43.25	43.25	ppb	1.16	3600	
51	V	72	1	49.12	49.12	ppb	0.78	3600	
52	Cr	72	1	54.57	54.57	ppb	0.34	3600	
55	Mn	72	1	1,078.00	1078.00	ppb	1.96	18000	
59	Co	72	1	50.02	50.02	ppb	1.94	3600	
60	Ni	72	1	54.59	54.59	ppb	2.29	3600	
63	Cu	72	1	43.19	43.19	ppb	1.03	3600	
66	Zn	72	1	129.20	129.20	ppb	1.13	3600	
75	As	72	1	42.55	42.55	ppb	0.80	3600	
78	Se	72	1	41.45	41.45	ppb	1.85	3600	
95	Mo	72	1	42.18	42.18	ppb	1.24	3600	
107	Ag	115	1	39.91	39.91	ppb	0.51	3600	
111	Cd	115	1	43.04	43.04	ppb	0.68	3600	
118	Sn	115	1	24.24	24.24	ppb	0.66	3600	
121	Sb	115	1	36.15	36.15	ppb	0.96	3600	
137	Ba	115	1	65.26	65.26	ppb	0.34	3600	
205	Tl	165	1	40.52	40.52	ppb	0.93	3600	
208	Pb	165	1	51.41	51.41	ppb	0.45	3600	
232	Th	165	1	30.21	30.21	ppb	0.22	1000	
238	U	165	1	40.40	40.40	ppb	0.84	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	491589	0.93	534602	92.0	30 - 120	
45	Sc	1	2608268	0.99	2551677	102.2	30 - 120	
72	Ge	1	1573012	1.10	1553005	101.3	30 - 120	
115	In	1	4318371	0.38	4260602	101.4	30 - 120	
165	Ho	1	8834474	1.16	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\137SDIL.D\137SDIL.D#		
Date Acquired:	Nov 9 2011 01:29 am	**QC Summary:**	
Acq. Method:	NormISIS.M	**Analytes:**	**Pass**
Operator:	LRD	**ISTD:**	**Pass**
Sample Name:	280-22438-c-11-a SD@5		
Misc Info:	SERIAL DILUTION		
Vial Number:	3302		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 07:04 pm		
Sample Type:	SDIL		
Dilution Factor:	1.00		

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\136AREF.D\136AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	9.19	ppb	0.38	8.65	106.3	90 - 110	
51	V	72	1	9.32	ppb	0.71	9.82	94.8	90 - 110	
52	Cr	72	1	10.38	ppb	1.44	10.91	95.1	90 - 110	
55	Mn	72	1	217.90	ppb	1.99	215.60	101.1	90 - 110	
59	Co	72	1	9.55	ppb	1.69	10.00	95.4	90 - 110	
60	Ni	72	1	11.06	ppb	2.21	10.92	101.3	90 - 110	
63	Cu	72	1	8.80	ppb	0.89	8.64	101.9	90 - 110	
66	Zn	72	1	26.53	ppb	0.86	25.84	102.7	90 - 110	
75	As	72	1	8.51	ppb	0.97	8.51	100.0	90 - 110	
78	Se	72	1	8.57	ppb	5.15	8.29	103.4	90 - 110	
95	Mo	72	1	8.30	ppb	0.91	8.44	98.3	90 - 110	
107	Ag	115	1	8.02	ppb	1.34	7.98	100.5	90 - 110	
111	Cd	115	1	8.82	ppb	3.17	8.61	102.5	90 - 110	
118	Sn	115	1	4.90	ppb	3.04	4.85	101.1	90 - 110	
121	Sb	115	1	7.38	ppb	1.54	7.23	102.1	90 - 110	
137	Ba	115	1	13.07	ppb	1.50	13.05	100.1	90 - 110	
205	Tl	165	1	8.09	ppb	0.50	8.10	99.9	90 - 110	
208	Pb	165	1	10.34	ppb	0.25	10.28	100.6	90 - 110	
232	Th	165	1	5.93	ppb	0.58	6.04	98.1	90 - 110	
238	U	165	1	7.97	ppb	0.40	8.08	98.7	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	500359	0.08	534602	93.6	30 - 120	
45	Sc	1	2635965	0.83	2551677	103.3	30 - 120	
72	Ge	1	1633694	1.51	1553005	105.2	30 - 120	
115	In	1	4414734	1.25	4260602	103.6	30 - 120	
165	Ho	1	8943250	0.71	8806612	101.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\138PDS.D\138PDS.D#	
Date Acquired:	Nov 9 2011 01:32 am	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	LRD	**ISTD: Pass**
Sample Name:	280-22438-c-11-a PDS	
Misc Info:	POST DIGESTION SPIKE	
Vial Number:	3303	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 08 2011 07:04 pm	
Sample Type:	PDS	
Prep Dil. Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	252.00	43.25	ppb	2.07	200	103.6	75 - 125	
51 V	72	1	238.80	49.12	ppb	3.22	200	95.9	75 - 125	
52 Cr	72	1	241.90	54.57	ppb	2.65	200	95.0	75 - 125	
55 Mn	72	1	1239.00	1078.00	ppb	0.98	200	96.9	75 - 125	
59 Co	72	1	238.70	50.02	ppb	1.53	200	95.5	75 - 125	
60 Ni	72	1	251.50	54.59	ppb	0.84	200	98.8	75 - 125	
63 Cu	72	1	231.10	43.19	ppb	1.86	200	95.0	75 - 125	
66 Zn	72	1	322.50	129.20	ppb	0.81	200	98.0	75 - 125	
75 As	72	1	242.00	42.55	ppb	2.54	200	99.8	75 - 125	
78 Se	72	1	242.60	41.45	ppb	2.90	200	100.5	75 - 125	
95 Mo	72	1	245.90	42.18	ppb	2.41	200	101.5	75 - 125	
107 Ag	115	1	87.05	39.91	ppb	2.03	50	96.8	75 - 125	
111 Cd	115	1	249.00	43.04	ppb	2.49	200	102.5	75 - 125	
118 Sn	115	1	223.90	24.24	ppb	1.53	200	99.8	75 - 125	
121 Sb	115	1	240.30	36.15	ppb	0.32	200	101.8	75 - 125	
137 Ba	115	1	282.20	65.26	ppb	0.97	200	106.4	75 - 125	
205 Tl	165	1	234.60	40.52	ppb	1.02	200	97.5	75 - 125	
208 Pb	165	1	239.50	51.41	ppb	0.70	200	95.3	75 - 125	
232 Th	165	1	30.16	30.21	ppb	1.05	200	13.1	75 - 125	
238 U	165	1	232.30	40.40	ppb	1.03	200	96.6	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	493965	0.57	534602	92.4	30 - 120	
45 Sc	1	2593384	2.24	2551677	101.6	30 - 120	
72 Ge	1	1590780	2.06	1553005	102.4	30 - 120	
115 In	1	4322871	0.96	4260602	101.5	30 - 120	
165 Ho	1	8806420	1.30	8806612	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\139_MS.D\139_MS.D#		
Date Acquired:	Nov 9 2011 01:34 am	**QC Summary:**	
Acq. Method:	NormISIS.M	**Analytes:**	**Pass**
Operator:	LRD	**ISTD:**	**Pass**
Sample Name:	280-22438-c-11-b ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	3304		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 08 2011 07:04 pm		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element		IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9	Be	6	1	42.42	43.25	ppb	0.93	40	51.0	50 - 150	
51	V	72	1	48.72	49.12	ppb	3.76	40	54.7	50 - 150	
52	Cr	72	1	54.34	54.57	ppb	3.23	40	57.5	50 - 150	
55	Mn	72	1	1073.00	1078.00	ppb	1.84	40	96.0	50 - 150	
59	Co	72	1	48.26	50.02	ppb	1.98	40	53.6	50 - 150	
60	Ni	72	1	53.25	54.59	ppb	1.48	40	56.3	50 - 150	
63	Cu	72	1	42.09	43.19	ppb	1.73	40	50.6	50 - 150	
66	Zn	72	1	127.60	129.20	ppb	1.25	40	75.4	50 - 150	
75	As	72	1	41.67	42.55	ppb	1.09	40	50.5	50 - 150	
78	Se	72	1	41.62	41.45	ppb	1.16	40	51.1	50 - 150	
95	Mo	72	1	41.40	42.18	ppb	1.53	40	50.4	50 - 150	
107	Ag	115	1	39.33	39.91	ppb	2.33	40	49.2	50 - 150	
111	Cd	115	1	42.61	43.04	ppb	1.78	40	51.3	50 - 150	
118	Sn	115	1	24.01	24.24	ppb	0.31	40	37.4	50 - 150	
121	Sb	115	1	35.76	36.15	ppb	0.54	40	47.0	50 - 150	
137	Ba	115	1	64.45	65.26	ppb	0.80	40	61.2	50 - 150	
205	Tl	165	1	40.16	40.52	ppb	0.54	40	49.9	50 - 150	
208	Pb	165	1	50.50	51.41	ppb	1.32	40	55.2	50 - 150	
232	Th	165	1	30.22	30.21	ppb	1.41	40	43.0	50 - 150	
238	U	165	1	39.73	40.40	ppb	0.57	40	49.4	50 - 150	

ISTD Elements

Element		Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6	Li	1	497949	0.04	534602	93.1	30 - 120	
45	Sc	1	2612399	1.54	2551677	102.4	30 - 120	
72	Ge	1	1593727	1.53	1553005	102.6	30 - 120	
115	In	1	4342411	1.53	4260602	101.9	30 - 120	
165	Ho	1	8834476	0.68	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\140_MSD.D\140_MSD.D#
Date Acquired:	Nov 9 2011 01:37 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	3305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\139_MS.D\139_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	0.21	ppb	39.48	42.42	198.01	20	
51	V	72	1	7.36	ppb	1.88	48.72	147.49	20	
52	Cr	72	1	12.97	ppb	2.02	54.34	122.92	20	
55	Mn	72	1	1047.00	ppb	1.70	1073.00	2.45	20	
59	Co	72	1	8.29	ppb	0.86	48.26	141.34	20	
60	Ni	72	1	14.76	ppb	1.18	53.25	113.19	20	
63	Cu	72	1	5.11	ppb	0.76	42.09	156.70	20	
66	Zn	72	1	92.69	ppb	0.91	127.60	31.69	20	
75	As	72	1	2.28	ppb	0.41	41.67	179.21	20	
78	Se	72	1	0.97	ppb	20.02	41.62	190.87	20	
95	Mo	72	1	1.12	ppb	4.23	41.40	189.45	20	
107	Ag	115	1	0.10	ppb	3.08	39.33	198.94	20	
111	Cd	115	1	3.19	ppb	3.77	42.61	172.16	20	
118	Sn	115	1	0.23	ppb	8.52	24.01	196.13	20	
121	Sb	115	1	0.56	ppb	1.06	35.76	193.79	20	
137	Ba	115	1	22.88	ppb	0.76	64.45	95.20	20	
205	Tl	165	1	0.27	ppb	0.83	40.16	197.37	20	
208	Pb	165	1	12.26	ppb	0.58	50.50	121.86	20	
232	Th	165	1	0.67	ppb	1.31	30.22	191.33	20	
238	U	165	1	0.29	ppb	1.43	39.73	197.15	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	500440	1.07	534602	93.6	30 - 120	
45	Sc	1	2648780	3.12	2551677	103.8	30 - 120	
72	Ge	1	1598410	0.47	1553005	102.9	30 - 120	
115	In	1	4374542	1.09	4260602	102.7	30 - 120	
165	Ho	1	8861025	0.50	8806612	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\141_CCV.D\141_CCV.D#
Date Acquired:	Nov 9 2011 01:40 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	53.39	ppb	0.97	50	106.8	90 - 110	
51	V	72	1	50.38	ppb	1.58	50	100.8	90 - 110	
52	Cr	72	1	49.63	ppb	0.64	50	99.3	90 - 110	
55	Mn	72	1	49.98	ppb	0.86	50	100.0	90 - 110	
59	Co	72	1	49.81	ppb	0.52	50	99.6	90 - 110	
60	Ni	72	1	49.19	ppb	1.01	50	98.4	90 - 110	
63	Cu	72	1	49.40	ppb	0.74	50	98.8	90 - 110	
66	Zn	72	1	48.92	ppb	1.34	50	97.8	90 - 110	
75	As	72	1	50.38	ppb	1.71	50	100.8	90 - 110	
78	Se	72	1	53.86	ppb	2.14	50	107.7	90 - 110	
95	Mo	72	1	49.81	ppb	0.91	50	99.6	90 - 110	
107	Ag	115	1	50.46	ppb	0.82	50	100.9	90 - 110	
111	Cd	115	1	49.17	ppb	0.82	50	98.3	90 - 110	
118	Sn	115	1	47.97	ppb	0.42	50	95.9	90 - 110	
121	Sb	115	1	48.98	ppb	0.93	50	98.0	90 - 110	
137	Ba	115	1	50.92	ppb	1.58	50	101.8	90 - 110	
205	Tl	165	1	50.85	ppb	0.33	50	101.7	90 - 110	
208	Pb	165	1	49.05	ppb	0.58	50	98.1	90 - 110	
232	Th	165	1	49.67	ppb	2.12	50	99.3	90 - 110	
238	U	165	1	48.70	ppb	1.30	50	97.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	503508	0.91	534602	94.2	30 - 120	
45	Sc	1	2623006	0.83	2551677	102.8	30 - 120	
72	Ge	1	1649350	0.65	1553005	106.2	30 - 120	
115	In	1	4521373	1.45	4260602	106.1	30 - 120	
165	Ho	1	8941329	0.76	8806612	101.5	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\142_CCB.D\142_CCB.D#
Date Acquired:	Nov 9 2011 01:43 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.009	ppb	144.82	1.00	
51	V	72	1	0.000	ppb	4511.70	1.00	
52	Cr	72	1	-0.001	ppb	1053.50	1.00	
55	Mn	72	1	0.083	ppb	13.74	1.00	
59	Co	72	1	0.011	ppb	1.66	1.00	
60	Ni	72	1	-0.016	ppb	45.37	1.00	
63	Cu	72	1	-0.001	ppb	684.36	1.00	
66	Zn	72	1	-0.009	ppb	34.65	1.00	
75	As	72	1	0.014	ppb	55.94	1.00	
78	Se	72	1	0.189	ppb	157.07	1.00	
95	Mo	72	1	0.018	ppb	22.34	1.00	
107	Ag	115	1	0.013	ppb	4.55	1.00	
111	Cd	115	1	0.014	ppb	29.92	1.00	
118	Sn	115	1	0.023	ppb	107.64	1.00	
121	Sb	115	1	0.026	ppb	4.92	1.00	
137	Ba	115	1	0.021	ppb	21.40	1.00	
205	Tl	165	1	0.025	ppb	8.00	1.00	
208	Pb	165	1	0.013	ppb	10.00	1.00	
232	Th	165	1	0.045	ppb	5.05	1.00	
238	U	165	1	0.014	ppb	3.31	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501239	0.38	534602	93.8	30 - 120	
45	Sc	1	2674243	2.02	2551677	104.8	30 - 120	
72	Ge	1	1655365	1.39	1553005	106.6	30 - 120	
115	In	1	4521825	1.45	4260602	106.1	30 - 120	
165	Ho	1	8832897	0.86	8806612	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\143WASH.D\143WASH.D#
Date Acquired:	Nov 9 2011 01:46 am
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 08 2011 07:04 pm
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.269 ppb	5.91	1.30	
51	V	72	1	4.878 ppb	1.59	6.50	
52	Cr	72	1	2.119 ppb	0.99	2.60	
55	Mn	72	1	1.269 ppb	2.81	1.30	
59	Co	72	1	1.073 ppb	2.29	1.30	
60	Ni	72	1	2.274 ppb	2.82	2.60	
63	Cu	72	1	2.179 ppb	2.16	2.60	
66	Zn	72	1	10.430 ppb	1.75	13.00	
75	As	72	1	5.263 ppb	1.92	6.50	
78	Se	72	1	5.664 ppb	0.80	6.50	
95	Mo	72	1	2.165 ppb	3.29	2.60	
107	Ag	115	1	5.029 ppb	1.99	6.50	
111	Cd	115	1	1.115 ppb	0.60	1.30	
118	Sn	115	1	9.971 ppb	0.98	13.00	
121	Sb	115	1	2.124 ppb	0.64	2.60	
137	Ba	115	1	1.154 ppb	1.28	1.30	
205	Tl	165	1	1.099 ppb	0.95	1.30	
208	Pb	165	1	1.085 ppb	1.75	1.30	
232	Th	165	1	2.073 ppb	0.73	2.60	
238	U	165	1	1.062 ppb	1.42	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	507663	1.17	534602	95.0	30 - 120	
45	Sc	1	2663595	1.50	2551677	104.4	30 - 120	
72	Ge	1	1663865	0.79	1553005	107.1	30 - 120	
115	In	1	4502189	0.94	4260602	105.7	30 - 120	
165	Ho	1	8974712	1.73	8806612	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\144WASH.D\144WASH.D#
Date Acquired: Nov 9 2011 01:49 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.011	ppb	135.37	1.30	
51	V	72	1	0.176	ppb	26.97	6.50	
52	Cr	72	1	1.025	ppb	2.70	2.60	
55	Mn	72	1	0.592	ppb	2.86	1.30	
59	Co	72	1	0.065	ppb	5.59	1.30	
60	Ni	72	1	5.268	ppb	1.43	2.60	
63	Cu	72	1	0.353	ppb	1.71	2.60	
66	Zn	72	1	3.455	ppb	0.51	13.00	
75	As	72	1	0.513	ppb	2.52	6.50	
78	Se	72	1	0.387	ppb	67.55	6.50	
95	Mo	72	1	1999.000	ppb	1.28	2.60	
107	Ag	115	1	0.069	ppb	10.52	6.50	
111	Cd	115	1	0.563	ppb	8.12	1.30	
118	Sn	115	1	0.184	ppb	5.06	13.00	
121	Sb	115	1	0.287	ppb	1.76	2.60	
137	Ba	115	1	0.250	ppb	1.72	1.30	
205	Tl	165	1	0.069	ppb	13.19	1.30	
208	Pb	165	1	0.166	ppb	4.95	1.30	
232	Th	165	1	0.043	ppb	10.99	2.60	
238	U	165	1	0.016	ppb	5.58	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	426228	0.80	534602	79.7	30 - 120	
45	Sc	1	2234973	1.08	2551677	87.6	30 - 120	
72	Ge	1	1372745	1.02	1553005	88.4	30 - 120	
115	In	1	3735449	0.97	4260602	87.7	30 - 120	
165	Ho	1	7710401	1.90	8806612	87.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\145WASH.D\145WASH.D#
Date Acquired: Nov 9 2011 01:52 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.014	ppb	54.51	1.30	
51	V	72	1	0.016	ppb	101.97	6.50	
52	Cr	72	1	-0.019	ppb	56.42	2.60	
55	Mn	72	1	0.050	ppb	19.26	1.30	
59	Co	72	1	0.005	ppb	40.56	1.30	
60	Ni	72	1	-0.027	ppb	53.95	2.60	
63	Cu	72	1	0.004	ppb	92.05	2.60	
66	Zn	72	1	-0.036	ppb	31.46	13.00	
75	As	72	1	0.015	ppb	49.88	6.50	
78	Se	72	1	0.285	ppb	68.19	6.50	
95	Mo	72	1	0.355	ppb	3.94	2.60	
107	Ag	115	1	0.003	ppb	48.33	6.50	
111	Cd	115	1	0.008	ppb	92.87	1.30	
118	Sn	115	1	-0.016	ppb	56.21	13.00	
121	Sb	115	1	0.008	ppb	16.41	2.60	
137	Ba	115	1	0.010	ppb	40.62	1.30	
205	Tl	165	1	0.013	ppb	3.26	1.30	
208	Pb	165	1	0.005	ppb	9.43	1.30	
232	Th	165	1	0.010	ppb	0.78	2.60	
238	U	165	1	0.003	ppb	31.18	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	478292	0.81	534602	89.5	30 - 120	
45	Sc	1	2543999	2.30	2551677	99.7	30 - 120	
72	Ge	1	1588627	1.51	1553005	102.3	30 - 120	
115	In	1	4408999	0.47	4260602	103.5	30 - 120	
165	Ho	1	8847686	1.55	8806612	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\146WASH.D\146WASH.D#
Date Acquired: Nov 9 2011 01:55 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	1982.30	1.30	
51	V	72	1	0.006	ppb	127.28	6.50	
52	Cr	72	1	-0.015	ppb	54.24	2.60	
55	Mn	72	1	0.041	ppb	9.36	1.30	
59	Co	72	1	0.004	ppb	21.59	1.30	
60	Ni	72	1	-0.034	ppb	19.74	2.60	
63	Cu	72	1	0.000	ppb	1276.10	2.60	
66	Zn	72	1	-0.028	ppb	53.99	13.00	
75	As	72	1	0.008	ppb	54.55	6.50	
78	Se	72	1	0.402	ppb	17.15	6.50	
95	Mo	72	1	0.089	ppb	7.34	2.60	
107	Ag	115	1	0.000	ppb	170.77	6.50	
111	Cd	115	1	0.002	ppb	60.62	1.30	
118	Sn	115	1	-0.020	ppb	6.95	13.00	
121	Sb	115	1	0.007	ppb	18.94	2.60	
137	Ba	115	1	0.005	ppb	100.61	1.30	
205	Tl	165	1	0.008	ppb	8.08	1.30	
208	Pb	165	1	0.004	ppb	19.02	1.30	
232	Th	165	1	0.008	ppb	13.36	2.60	
238	U	165	1	0.002	ppb	5.57	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	489410	0.55	534602	91.5	30 - 120	
45	Sc	1	2620270	0.60	2551677	102.7	30 - 120	
72	Ge	1	1644029	0.59	1553005	105.9	30 - 120	
115	In	1	4521563	0.56	4260602	106.1	30 - 120	
165	Ho	1	8848234	0.53	8806612	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\147WASH.D\147WASH.D#
Date Acquired: Nov 9 2011 01:58 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	1791.90	1.30	
51	V	72	1	-0.006	ppb	80.66	6.50	
52	Cr	72	1	-0.024	ppb	59.03	2.60	
55	Mn	72	1	0.032	ppb	2.08	1.30	
59	Co	72	1	0.003	ppb	17.91	1.30	
60	Ni	72	1	-0.031	ppb	9.82	2.60	
63	Cu	72	1	-0.010	ppb	97.99	2.60	
66	Zn	72	1	-0.041	ppb	32.59	13.00	
75	As	72	1	0.005	ppb	201.15	6.50	
78	Se	72	1	0.298	ppb	49.77	6.50	
95	Mo	72	1	0.045	ppb	19.43	2.60	
107	Ag	115	1	0.002	ppb	10.72	6.50	
111	Cd	115	1	0.005	ppb	96.57	1.30	
118	Sn	115	1	-0.025	ppb	29.36	13.00	
121	Sb	115	1	0.006	ppb	38.19	2.60	
137	Ba	115	1	0.006	ppb	32.60	1.30	
205	Tl	165	1	0.005	ppb	20.51	1.30	
208	Pb	165	1	0.003	ppb	42.29	1.30	
232	Th	165	1	0.004	ppb	28.69	2.60	
238	U	165	1	0.003	ppb	17.00	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	497000	1.82	534602	93.0	30 - 120	
45	Sc	1	2635651	0.31	2551677	103.3	30 - 120	
72	Ge	1	1663668	2.09	1553005	107.1	30 - 120	
115	In	1	4561498	0.25	4260602	107.1	30 - 120	
165	Ho	1	8866619	0.63	8806612	100.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\148WASH.D\148WASH.D#
Date Acquired: Nov 9 2011 02:01 am
Operator: LRD
Sample Name: RINSE
Misc Info:
Vial Number: 3
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 08 2011 07:04 pm
Sample Type: WASH
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	2217.40	1.30	
51	V	72	1	-0.006	ppb	340.26	6.50	
52	Cr	72	1	-0.015	ppb	68.34	2.60	
55	Mn	72	1	0.027	ppb	8.36	1.30	
59	Co	72	1	0.004	ppb	43.89	1.30	
60	Ni	72	1	-0.030	ppb	20.13	2.60	
63	Cu	72	1	-0.004	ppb	180.17	2.60	
66	Zn	72	1	-0.032	ppb	20.10	13.00	
75	As	72	1	0.008	ppb	79.77	6.50	
78	Se	72	1	0.240	ppb	50.19	6.50	
95	Mo	72	1	0.027	ppb	11.20	2.60	
107	Ag	115	1	0.000	ppb	149.42	6.50	
111	Cd	115	1	0.002	ppb	135.03	1.30	
118	Sn	115	1	-0.026	ppb	20.47	13.00	
121	Sb	115	1	0.004	ppb	26.85	2.60	
137	Ba	115	1	0.006	ppb	41.79	1.30	
205	Tl	165	1	0.004	ppb	18.86	1.30	
208	Pb	165	1	0.002	ppb	6.72	1.30	
232	Th	165	1	0.006	ppb	13.23	2.60	
238	U	165	1	0.002	ppb	11.74	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501069	0.84	534602	93.7	30 - 120	
45	Sc	1	2645736	0.91	2551677	103.7	30 - 120	
72	Ge	1	1666646	1.18	1553005	107.3	30 - 120	
115	In	1	4537188	0.60	4260602	106.5	30 - 120	
165	Ho	1	9002165	1.83	8806612	102.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\003CALB.D\003CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\149CALB.D\149CALB.D#
Date Acquired:	Nov 9 2011 02:03 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	Cal Blank
Misc Info:	
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 08 2011 07:04 pm
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	0	0.00
51	V	72	1	392	61.04
52	Cr	72	1	8259	0.97
55	Mn	72	1	1667	8.91
59	Co	72	1	343	33.92
60	Ni	72	1	257	7.61
63	Cu	72	1	987	12.65
66	Zn	72	1	324	5.00
75	As	72	1	126	22.23
78	Se	72	1	370	7.89
95	Mo	72	1	330	24.16
107	Ag	115	1	120	46.05
111	Cd	115	1	77	39.57
118	Sn	115	1	577	21.76
121	Sb	115	1	129	18.58
137	Ba	115	1	124	19.97
205	Tl	165	1	456	6.14
208	Pb	165	1	1053	10.69
232	Th	165	1	657	19.97
238	U	165	1	416	21.22

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	505677	0.19
45	Sc	1	2697067	1.72
72	Ge	1	1666675	0.73
115	In	1	4587598	0.54
165	Ho	1	9026672	1.33

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#
Date Acquired:	Nov 9 2011 02:06 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1118467
Misc Info:	
Vial Number:	1103
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:04 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	13	43.89
51	V	72	1	159	252.72
52	Cr	72	1	7932	2.56
55	Mn	72	1	1537	8.51
59	Co	72	1	230	15.63
60	Ni	72	1	587	4.98
63	Cu	72	1	1030	5.89
66	Zn	72	1	538	4.34
75	As	72	1	119	12.56
78	Se	72	1	373	11.54
95	Mo	72	1	167	42.51
107	Ag	115	1	33	44.86
111	Cd	115	1	53	18.78
118	Sn	115	1	930	16.42
121	Sb	115	1	70	31.55
137	Ba	115	1	94	18.03
205	Tl	165	1	267	12.18
208	Pb	165	1	860	2.25
232	Th	165	1	377	17.26
238	U	165	1	214	29.28

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
6	Li	1	511883	0.67
45	Sc	1	2688297	1.44
72	Ge	1	1668870	1.44
115	In	1	4545768	2.38
165	Ho	1	8917520	1.23

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\151ICAL.D\151ICAL.D#
Date Acquired:	Nov 9 2011 02:09 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	IC-1118450
Misc Info:	
Vial Number:	1303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:07 am
Sample Type:	ICAL

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	6	1	81715	1.37
51	V	72	1	2308177	2.04
52	Cr	72	1	2480869	2.13
55	Mn	72	1	2132637	1.40
59	Co	72	1	3402394	1.18
60	Ni	72	1	824543	1.23
63	Cu	72	1	2060721	0.53
66	Zn	72	1	369794	0.64
75	As	72	1	262377	0.51
78	Se	72	1	36302	1.59
95	Mo	72	1	979578	1.51
107	Ag	115	1	2953326	2.47
111	Cd	115	1	492222	1.69
118	Sn	115	1	1291721	0.57
121	Sb	115	1	1471060	0.65
137	Ba	115	1	565859	0.29
205	Tl	165	1	5003389	1.32
208	Pb	165	1	6950601	1.50
232	Th	165	1	6746712	2.65
238	U	165	1	7209125	3.42

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	505048	0.78	511883	98.7	30 - 120	
45	Sc	1	2657086	2.00	2688297	98.8	30 - 120	
72	Ge	1	1644365	0.77	1668870	98.5	30 - 120	
115	In	1	4540819	0.91	4545768	99.9	30 - 120	
165	Ho	1	8941115	1.79	8917520	100.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\152_CCV.D\152_CCV.D#
Date Acquired:	Nov 9 2011 02:12 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.21	ppb	1.90	50	100.4	90 - 110	
51	V	72	1	50.32	ppb	0.29	50	100.6	90 - 110	
52	Cr	72	1	50.21	ppb	0.58	50	100.4	90 - 110	
55	Mn	72	1	50.50	ppb	0.75	50	101.0	90 - 110	
59	Co	72	1	50.88	ppb	1.39	50	101.8	90 - 110	
60	Ni	72	1	49.45	ppb	2.09	50	98.9	90 - 110	
63	Cu	72	1	50.08	ppb	0.71	50	100.2	90 - 110	
66	Zn	72	1	49.65	ppb	0.82	50	99.3	90 - 110	
75	As	72	1	49.58	ppb	0.83	50	99.2	90 - 110	
78	Se	72	1	49.32	ppb	1.63	50	98.6	90 - 110	
95	Mo	72	1	49.09	ppb	0.46	50	98.2	90 - 110	
107	Ag	115	1	51.49	ppb	1.61	50	103.0	90 - 110	
111	Cd	115	1	50.02	ppb	1.12	50	100.0	90 - 110	
118	Sn	115	1	48.01	ppb	0.28	50	96.0	90 - 110	
121	Sb	115	1	48.32	ppb	0.24	50	96.6	90 - 110	
137	Ba	115	1	49.91	ppb	0.66	50	99.8	90 - 110	
205	Tl	165	1	50.95	ppb	1.15	50	101.9	90 - 110	
208	Pb	165	1	49.60	ppb	0.85	50	99.2	90 - 110	
232	Th	165	1	50.40	ppb	1.63	50	100.8	90 - 110	
238	U	165	1	50.33	ppb	0.95	50	100.7	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	502391	0.68	511883	98.1	30 - 120	
45	Sc	1	2649570	1.03	2688297	98.6	30 - 120	
72	Ge	1	1647856	1.60	1668870	98.7	30 - 120	
115	In	1	4512305	0.86	4545768	99.3	30 - 120	
165	Ho	1	8997857	0.91	8917520	100.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\153_CCB.D\153_CCB.D#
Date Acquired:	Nov 9 2011 02:15 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	606.32	1.00	
51	V	72	1	0.007	ppb	109.37	1.00	
52	Cr	72	1	0.016	ppb	73.79	1.00	
55	Mn	72	1	0.009	ppb	28.66	1.00	
59	Co	72	1	0.007	ppb	37.01	1.00	
60	Ni	72	1	-0.025	ppb	45.50	1.00	
63	Cu	72	1	0.001	ppb	231.97	1.00	
66	Zn	72	1	-0.049	ppb	6.27	1.00	
75	As	72	1	0.005	ppb	281.74	1.00	
78	Se	72	1	0.075	ppb	290.88	1.00	
95	Mo	72	1	0.020	ppb	45.18	1.00	
107	Ag	115	1	0.012	ppb	8.30	1.00	
111	Cd	115	1	0.004	ppb	56.75	1.00	
118	Sn	115	1	0.002	ppb	40.69	1.00	
121	Sb	115	1	0.019	ppb	15.95	1.00	
137	Ba	115	1	0.010	ppb	38.00	1.00	
205	Tl	165	1	0.028	ppb	8.14	1.00	
208	Pb	165	1	0.009	ppb	23.47	1.00	
232	Th	165	1	0.056	ppb	13.78	1.00	
238	U	165	1	0.012	ppb	7.81	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	504921	1.24	511883	98.6	30 - 120	
45	Sc	1	2650140	0.43	2688297	98.6	30 - 120	
72	Ge	1	1650382	1.36	1668870	98.9	30 - 120	
115	In	1	4522103	0.94	4545768	99.5	30 - 120	
165	Ho	1	8852154	0.86	8917520	99.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\154WASH.D\154WASH.D#
Date Acquired:	Nov 9 2011 02:18 am
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit	Flag
9	Be	6	1	1.045 ppb	10.19	1.30	
51	V	72	1	5.052 ppb	2.23	6.50	
52	Cr	72	1	2.250 ppb	2.44	2.60	
55	Mn	72	1	1.224 ppb	3.29	1.30	
59	Co	72	1	1.100 ppb	1.26	1.30	
60	Ni	72	1	2.287 ppb	2.80	2.60	
63	Cu	72	1	2.218 ppb	3.21	2.60	
66	Zn	72	1	10.640 ppb	0.69	13.00	
75	As	72	1	5.227 ppb	1.48	6.50	
78	Se	72	1	5.527 ppb	6.90	6.50	
95	Mo	72	1	2.120 ppb	1.19	2.60	
107	Ag	115	1	5.085 ppb	0.84	6.50	
111	Cd	115	1	1.054 ppb	3.53	1.30	
118	Sn	115	1	9.820 ppb	0.36	13.00	
121	Sb	115	1	2.042 ppb	0.81	2.60	
137	Ba	115	1	1.106 ppb	2.16	1.30	
205	Tl	165	1	1.130 ppb	0.59	1.30	
208	Pb	165	1	1.100 ppb	1.03	1.30	
232	Th	165	1	2.112 ppb	1.04	2.60	
238	U	165	1	1.103 ppb	1.75	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	502771	0.90	511883	98.2	30 - 120	
45	Sc	1	2633614	1.07	2688297	98.0	30 - 120	
72	Ge	1	1641505	0.39	1668870	98.4	30 - 120	
115	In	1	4558468	1.23	4545768	100.3	30 - 120	
165	Ho	1	8900407	0.97	8917520	99.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\155_BLK.D\155_BLK.D#
Date Acquired: Nov 9 2011 02:21 am
Operator: LRD
Sample Name: mb 280-94465/1-a
Misc Info: BLANK 94465 6020
Vial Number: 4106
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.000	ppb	5773.60	2.00	
51	V	72	1	-0.018	ppb	143.37	2.00	
52	Cr	72	1	-0.015	ppb	100.60	2.00	
55	Mn	72	1	0.052	ppb	6.71	2.00	
59	Co	72	1	0.000	ppb	513.51	2.00	
60	Ni	72	1	-0.036	ppb	16.44	2.00	
63	Cu	72	1	0.029	ppb	5.47	2.00	
66	Zn	72	1	1.277	ppb	3.38	2.00	
75	As	72	1	-0.001	ppb	521.20	2.00	
78	Se	72	1	0.053	ppb	138.63	2.00	
95	Mo	72	1	0.001	ppb	1227.20	2.00	
107	Ag	115	1	0.004	ppb	29.52	2.00	
111	Cd	115	1	0.000	ppb	2447.10	2.00	
118	Sn	115	1	-0.004	ppb	116.30	2.00	
121	Sb	115	1	0.005	ppb	27.69	2.00	
137	Ba	115	1	0.037	ppb	19.13	2.00	
205	Tl	165	1	0.010	ppb	26.41	2.00	
208	Pb	165	1	0.008	ppb	6.26	2.00	
232	Th	165	1	0.013	ppb	11.70	2.00	
238	U	165	1	0.002	ppb	17.66	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	507079	1.28	511883	99.1	30 - 120	
45	Sc	1	2665565	2.29	2688297	99.2	30 - 120	
72	Ge	1	1642588	1.73	1668870	98.4	30 - 120	
115	In	1	4511687	1.40	4545768	99.3	30 - 120	
165	Ho	1	8892599	0.72	8917520	99.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\156AREF.D\156AREF.D#
Date Acquired:	Nov 9 2011 02:24 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a
Misc Info:	94961 DoD4/ 6020A
Vial Number:	3301
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.15	0.15	ppb	17.22	3600	
51	V	72	1	7.40	7.40	ppb	1.36	3600	
52	Cr	72	1	13.27	13.27	ppb	1.16	3600	
55	Mn	72	1	1,051.00	1051.00	ppb	0.30	18000	
59	Co	72	1	8.33	8.33	ppb	0.48	3600	
60	Ni	72	1	14.99	14.99	ppb	2.74	3600	
63	Cu	72	1	5.25	5.25	ppb	1.46	3600	
66	Zn	72	1	95.66	95.66	ppb	0.56	3600	
75	As	72	1	2.20	2.20	ppb	2.02	3600	
78	Se	72	1	0.53	0.53	ppb	5.22	3600	
95	Mo	72	1	1.12	1.12	ppb	4.51	3600	
107	Ag	115	1	0.09	0.09	ppb	6.20	3600	
111	Cd	115	1	3.25	3.25	ppb	0.08	3600	
118	Sn	115	1	0.18	0.18	ppb	11.72	3600	
121	Sb	115	1	0.51	0.51	ppb	1.28	3600	
137	Ba	115	1	22.48	22.48	ppb	0.28	3600	
205	Tl	165	1	0.26	0.26	ppb	3.61	3600	
208	Pb	165	1	12.33	12.33	ppb	1.34	3600	
232	Th	165	1	0.65	0.65	ppb	1.83	1000	
238	U	165	1	0.28	0.28	ppb	3.72	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	510361	0.60	511883	99.7	30 - 120	
45	Sc	1	2695760	0.11	2688297	100.3	30 - 120	
72	Ge	1	1623049	0.09	1668870	97.3	30 - 120	
115	In	1	4426098	0.92	4545768	97.4	30 - 120	
165	Ho	1	8898419	1.81	8917520	99.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\157SDIL.D\157SDIL.D#		
Date Acquired:	Nov 9 2011 02:27 am	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	LRD	ISTD:	Pass
Sample Name:	280-22438-c-11-a SD@5		
Misc Info:	SERIAL DILUTION		
Vial Number:	3302		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 09 2011 02:10 am		
Sample Type:	SDIL		
Dilution Factor:	1.00		

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\156AREF.D\156AREF.D#

QC elements

Element		IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9	Be	6	1	0.03	ppb	132.74	0.03	93.7	90 - 110	
51	V	72	1	1.41	ppb	1.66	1.48	95.0	90 - 110	
52	Cr	72	1	2.54	ppb	2.13	2.65	95.5	90 - 110	
55	Mn	72	1	207.70	ppb	1.68	210.20	98.8	90 - 110	
59	Co	72	1	1.62	ppb	2.44	1.67	97.1	90 - 110	
60	Ni	72	1	2.90	ppb	3.66	3.00	96.8	90 - 110	
63	Cu	72	1	1.04	ppb	2.82	1.05	99.1	90 - 110	
66	Zn	72	1	20.97	ppb	0.87	19.13	109.6	90 - 110	
75	As	72	1	0.42	ppb	3.43	0.44	94.5	90 - 110	
78	Se	72	1	0.08	ppb	205.07	0.11	75.0	90 - 110	
95	Mo	72	1	0.21	ppb	11.91	0.22	93.5	90 - 110	
107	Ag	115	1	0.02	ppb	5.75	0.02	107.4	90 - 110	
111	Cd	115	1	0.63	ppb	5.74	0.65	96.6	90 - 110	
118	Sn	115	1	0.06	ppb	39.01	0.04	168.7	90 - 110	
121	Sb	115	1	0.11	ppb	4.72	0.10	109.6	90 - 110	
137	Ba	115	1	4.38	ppb	1.39	4.50	97.3	90 - 110	
205	Tl	165	1	0.05	ppb	3.96	0.05	96.9	90 - 110	
208	Pb	165	1	2.45	ppb	1.05	2.47	99.4	90 - 110	
232	Th	165	1	0.12	ppb	3.16	0.13	91.6	90 - 110	
238	U	165	1	0.05	ppb	5.09	0.06	97.0	90 - 110	

ISTD elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	515369	1.20	511883	100.7	30 - 120	
45	Sc	1	2711400	0.67	2688297	100.9	30 - 120	
72	Ge	1	1687890	0.67	1668870	101.1	30 - 120	
115	In	1	4579297	0.82	4545768	100.7	30 - 120	
165	Ho	1	9090217	0.47	8917520	101.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\158PDS.D\158PDS.D#
Date Acquired:	Nov 9 2011 02:30 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	3303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00
Spike Ref. File:	---

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	197.20	0.15	ppb	0.57	200	98.5	75 - 125	
51 V	72	1	208.90	7.40	ppb	1.20	200	100.7	75 - 125	
52 Cr	72	1	214.30	13.27	ppb	1.81	200	100.5	75 - 125	
55 Mn	72	1	1241.00	1051.00	ppb	0.83	200	99.2	75 - 125	
59 Co	72	1	206.40	8.33	ppb	0.50	200	99.1	75 - 125	
60 Ni	72	1	220.60	14.99	ppb	0.72	200	102.6	75 - 125	
63 Cu	72	1	200.50	5.25	ppb	0.63	200	97.7	75 - 125	
66 Zn	72	1	297.00	95.66	ppb	1.63	200	100.5	75 - 125	
75 As	72	1	199.00	2.20	ppb	0.04	200	98.4	75 - 125	
78 Se	72	1	193.80	0.53	ppb	1.20	200	96.6	75 - 125	
95 Mo	72	1	207.50	1.12	ppb	1.34	200	103.2	75 - 125	
107 Ag	115	1	50.10	0.09	ppb	1.88	50	100.0	75 - 125	
111 Cd	115	1	203.10	3.25	ppb	0.59	200	99.9	75 - 125	
118 Sn	115	1	200.70	0.18	ppb	1.05	200	100.3	75 - 125	
121 Sb	115	1	198.10	0.51	ppb	0.37	200	98.8	75 - 125	
137 Ba	115	1	239.10	22.48	ppb	1.23	200	107.5	75 - 125	
205 Tl	165	1	192.60	0.26	ppb	1.14	200	96.2	75 - 125	
208 Pb	165	1	202.50	12.33	ppb	0.33	200	95.4	75 - 125	
232 Th	165	1	0.66	0.65	ppb	0.91	200	0.3	75 - 125	
238 U	165	1	198.00	0.28	ppb	1.12	200	98.9	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	503795	0.42	511883	98.4	30 - 120	
45 Sc	1	2649127	0.49	2688297	98.5	30 - 120	
72 Ge	1	1608398	0.54	1668870	96.4	30 - 120	
115 In	1	4395307	1.44	4545768	96.7	30 - 120	
165 Ho	1	9019775	1.59	8917520	101.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\159_MS.D\159_MS.D#	
Date Acquired:	Nov 9 2011 02:32 am	**QC Summary:**
Acq. Method:	NormISIS.M	**Analytes: Pass**
Operator:	LRD	**ISTD: Pass**
Sample Name:	280-22438-c-11-b ms	
Misc Info:	MATRIX SPIKE	
Vial Number:	3304	
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M	
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C	
Last Cal. Update:	Nov 09 2011 02:10 am	
Sample Type:	MS	
Prep Dil. Factor:	1.00	
Autodil Factor:	Undiluted	
Final Dil Factor:	1.00	

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	40.11	0.15	ppb	0.58	40	99.9	50 - 150	
51 V	72	1	49.33	7.40	ppb	1.51	40	104.1	50 - 150	
52 Cr	72	1	54.47	13.27	ppb	0.86	40	102.3	50 - 150	
55 Mn	72	1	1069.00	1051.00	ppb	0.83	40	98.0	50 - 150	
59 Co	72	1	49.01	8.33	ppb	0.52	40	101.4	50 - 150	
60 Ni	72	1	54.00	14.99	ppb	1.89	40	98.2	50 - 150	
63 Cu	72	1	43.26	5.25	ppb	0.99	40	95.6	50 - 150	
66 Zn	72	1	130.40	95.66	ppb	0.37	40	96.1	50 - 150	
75 As	72	1	41.12	2.20	ppb	0.42	40	97.4	50 - 150	
78 Se	72	1	38.16	0.53	ppb	1.00	40	94.2	50 - 150	
95 Mo	72	1	40.62	1.12	ppb	1.44	40	98.8	50 - 150	
107 Ag	115	1	39.10	0.09	ppb	0.54	40	97.5	50 - 150	
111 Cd	115	1	42.12	3.25	ppb	0.79	40	97.4	50 - 150	
118 Sn	115	1	22.97	0.18	ppb	1.25	40	57.2	50 - 150	
121 Sb	115	1	34.60	0.51	ppb	0.90	40	85.4	50 - 150	
137 Ba	115	1	62.44	22.48	ppb	0.76	40	99.9	50 - 150	
205 Tl	165	1	40.31	0.26	ppb	1.48	40	100.1	50 - 150	
208 Pb	165	1	50.98	12.33	ppb	1.48	40	97.4	50 - 150	
232 Th	165	1	30.68	0.65	ppb	3.62	40	75.5	50 - 150	
238 U	165	1	41.41	0.28	ppb	2.35	40	102.8	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	512513	1.05	511883	100.1	30 - 120	
45 Sc	1	2675867	1.37	2688297	99.5	30 - 120	
72 Ge	1	1618521	0.65	1668870	97.0	30 - 120	
115 In	1	4474262	0.54	4545768	98.4	30 - 120	
165 Ho	1	8913451	0.82	8917520	100.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\160_MSD.D\160_MSD.D#
Date Acquired:	Nov 9 2011 02:35 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22438-c-11-c msd
Misc Info:	MATRIX SPIKE DUPLICATE
Vial Number:	3305
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	MSD
Dilution Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\159_MS.D\159_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	40.73	ppb	2.24	40.11	1.53	20	
51	V	72	1	49.62	ppb	0.13	49.33	0.59	20	
52	Cr	72	1	54.72	ppb	1.02	54.47	0.46	20	
55	Mn	72	1	1083.00	ppb	0.68	1069.00	1.30	20	
59	Co	72	1	50.11	ppb	0.66	49.01	2.22	20	
60	Ni	72	1	54.19	ppb	1.44	54.00	0.35	20	
63	Cu	72	1	43.59	ppb	1.39	43.26	0.76	20	
66	Zn	72	1	153.00	ppb	0.93	130.40	15.95	20	
75	As	72	1	40.94	ppb	1.73	41.12	0.44	20	
78	Se	72	1	38.29	ppb	2.69	38.16	0.34	20	
95	Mo	72	1	40.85	ppb	1.82	40.62	0.56	20	
107	Ag	115	1	19.90	ppb	1.38	39.10	65.08	20	
111	Cd	115	1	43.52	ppb	1.14	42.12	3.27	20	
118	Sn	115	1	22.18	ppb	0.82	22.97	3.50	20	
121	Sb	115	1	35.30	ppb	1.00	34.60	2.00	20	
137	Ba	115	1	63.82	ppb	0.84	62.44	2.19	20	
205	Tl	165	1	40.89	ppb	1.04	40.31	1.43	20	
208	Pb	165	1	51.67	ppb	0.85	50.98	1.34	20	
232	Th	165	1	29.84	ppb	1.02	30.68	2.78	20	
238	U	165	1	42.04	ppb	2.39	41.41	1.51	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	501902	1.19	511883	98.1	30 - 120	
45	Sc	1	2658513	0.85	2688297	98.9	30 - 120	
72	Ge	1	1632487	1.81	1668870	97.8	30 - 120	
115	In	1	4407045	1.37	4545768	96.9	30 - 120	
165	Ho	1	8968407	0.36	8917520	100.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures	0 :Max. Number of Failures Allowed
0 :ISTD Failures	0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\161_CCV.D\161_CCV.D#
Date Acquired:	Nov 9 2011 02:38 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.02	ppb	2.61	50	100.0	90 - 110	
51	V	72	1	51.36	ppb	1.99	50	102.7	90 - 110	
52	Cr	72	1	51.11	ppb	1.79	50	102.2	90 - 110	
55	Mn	72	1	51.49	ppb	2.59	50	103.0	90 - 110	
59	Co	72	1	51.19	ppb	2.25	50	102.4	90 - 110	
60	Ni	72	1	49.63	ppb	1.27	50	99.3	90 - 110	
63	Cu	72	1	51.31	ppb	0.12	50	102.6	90 - 110	
66	Zn	72	1	49.74	ppb	0.98	50	99.5	90 - 110	
75	As	72	1	49.66	ppb	0.65	50	99.3	90 - 110	
78	Se	72	1	49.29	ppb	4.23	50	98.6	90 - 110	
95	Mo	72	1	49.18	ppb	1.36	50	98.4	90 - 110	
107	Ag	115	1	50.90	ppb	0.75	50	101.8	90 - 110	
111	Cd	115	1	49.75	ppb	0.13	50	99.5	90 - 110	
118	Sn	115	1	47.68	ppb	0.66	50	95.4	90 - 110	
121	Sb	115	1	48.34	ppb	0.56	50	96.7	90 - 110	
137	Ba	115	1	49.62	ppb	0.43	50	99.2	90 - 110	
205	Tl	165	1	51.12	ppb	0.20	50	102.2	90 - 110	
208	Pb	165	1	49.64	ppb	0.10	50	99.3	90 - 110	
232	Th	165	1	50.93	ppb	1.95	50	101.9	90 - 110	
238	U	165	1	50.82	ppb	0.78	50	101.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	508138	0.85	511883	99.3	30 - 120	
45	Sc	1	2690369	1.50	2688297	100.1	30 - 120	
72	Ge	1	1672202	0.70	1668870	100.2	30 - 120	
115	In	1	4603188	0.68	4545768	101.3	30 - 120	
165	Ho	1	9016700	0.12	8917520	101.1	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\162_CCB.D\162_CCB.D#
Date Acquired: Nov 9 2011 02:41 am
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.004	ppb	687.90	1.00	
51	V	72	1	0.006	ppb	261.23	1.00	
52	Cr	72	1	0.005	ppb	147.03	1.00	
55	Mn	72	1	0.067	ppb	15.98	1.00	
59	Co	72	1	0.009	ppb	45.65	1.00	
60	Ni	72	1	-0.022	ppb	48.59	1.00	
63	Cu	72	1	0.010	ppb	49.51	1.00	
66	Zn	72	1	-0.019	ppb	44.98	1.00	
75	As	72	1	0.001	ppb	138.76	1.00	
78	Se	72	1	0.091	ppb	340.46	1.00	
95	Mo	72	1	0.010	ppb	54.88	1.00	
107	Ag	115	1	0.016	ppb	8.71	1.00	
111	Cd	115	1	0.006	ppb	69.79	1.00	
118	Sn	115	1	-0.002	ppb	574.36	1.00	
121	Sb	115	1	0.023	ppb	11.40	1.00	
137	Ba	115	1	0.009	ppb	35.35	1.00	
205	Tl	165	1	0.024	ppb	11.14	1.00	
208	Pb	165	1	0.012	ppb	3.92	1.00	
232	Th	165	1	0.050	ppb	7.01	1.00	
238	U	165	1	0.014	ppb	6.55	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	519261	0.94	511883	101.4	30 - 120	
45	Sc	1	2755446	1.88	2688297	102.5	30 - 120	
72	Ge	1	1709753	0.64	1668870	102.4	30 - 120	
115	In	1	4642883	1.68	4545768	102.1	30 - 120	
165	Ho	1	9028824	0.21	8917520	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Wash QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\163WASH.D\163WASH.D#
Date Acquired:	Nov 9 2011 02:44 am
Operator:	LRD
Sample Name:	LLICV-1118468
Misc Info:	
Vial Number:	1204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	WASH
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	1.115	ppb	12.37	1.30	
51	V	72	1	5.023	ppb	0.39	6.50	
52	Cr	72	1	2.214	ppb	1.07	2.60	
55	Mn	72	1	1.281	ppb	1.41	1.30	
59	Co	72	1	1.113	ppb	1.98	1.30	
60	Ni	72	1	2.259	ppb	0.63	2.60	
63	Cu	72	1	2.226	ppb	3.88	2.60	
66	Zn	72	1	10.620	ppb	1.69	13.00	
75	As	72	1	5.274	ppb	0.70	6.50	
78	Se	72	1	5.105	ppb	11.32	6.50	
95	Mo	72	1	2.120	ppb	1.05	2.60	
107	Ag	115	1	5.113	ppb	0.54	6.50	
111	Cd	115	1	1.085	ppb	1.10	1.30	
118	Sn	115	1	9.809	ppb	0.17	13.00	
121	Sb	115	1	2.053	ppb	0.63	2.60	
137	Ba	115	1	1.128	ppb	0.69	1.30	
205	Tl	165	1	1.108	ppb	0.74	1.30	
208	Pb	165	1	1.089	ppb	1.24	1.30	
232	Th	165	1	2.063	ppb	0.90	2.60	
238	U	165	1	1.082	ppb	1.01	1.30	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	515292	1.30	511883	100.7	30 - 120	
45	Sc	1	2702847	2.36	2688297	100.5	30 - 120	
72	Ge	1	1679995	2.53	1668870	100.7	30 - 120	
115	In	1	4596835	1.19	4545768	101.1	30 - 120	
165	Ho	1	9066327	0.98	8917520	101.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Blank QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\164_BLK.D\164_BLK.D#
Date Acquired: Nov 9 2011 02:47 am
Operator: LRD
Sample Name: mb 280-94465/1-a
Misc Info: BLANK 94465 6020
Vial Number: 4106
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: BLK
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.008	ppb	173.77	2.00	
51	V	72	1	0.005	ppb	299.09	2.00	
52	Cr	72	1	-0.005	ppb	212.74	2.00	
55	Mn	72	1	0.085	ppb	3.17	2.00	
59	Co	72	1	0.002	ppb	85.81	2.00	
60	Ni	72	1	-0.028	ppb	34.43	2.00	
63	Cu	72	1	0.032	ppb	3.59	2.00	
66	Zn	72	1	1.229	ppb	3.04	2.00	
75	As	72	1	0.002	ppb	359.20	2.00	
78	Se	72	1	0.099	ppb	253.76	2.00	
95	Mo	72	1	-0.003	ppb	93.21	2.00	
107	Ag	115	1	0.003	ppb	23.23	2.00	
111	Cd	115	1	-0.001	ppb	152.72	2.00	
118	Sn	115	1	-0.001	ppb	1448.10	2.00	
121	Sb	115	1	0.007	ppb	9.61	2.00	
137	Ba	115	1	0.034	ppb	26.31	2.00	
205	Tl	165	1	0.007	ppb	9.83	2.00	
208	Pb	165	1	0.011	ppb	2.22	2.00	
232	Th	165	1	0.011	ppb	18.43	2.00	
238	U	165	1	0.003	ppb	16.57	2.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	515099	0.81	511883	100.6	30 - 120	
45	Sc	1	2739564	0.26	2688297	101.9	30 - 120	
72	Ge	1	1696289	0.67	1668870	101.6	30 - 120	
115	In	1	4622150	0.96	4545768	101.7	30 - 120	
165	Ho	1	9021083	0.32	8917520	101.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Laboratory Control Spike (LCS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\165_LCS.D\165_LCS.D#
Date Acquired:	Nov 9 2011 02:50 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	lcs 280-94465/2-a
Misc Info:	LCS
Vial Number:	4107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	LCS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Analyte Elements

Element		IS Ref	Tune	Conc. ppb	RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	41.58	3.04	40	104.0	80 - 120	
51	V	72	1	42.26	0.99	40	105.7	80 - 120	
52	Cr	72	1	42.17	2.90	40	105.4	80 - 120	
55	Mn	72	1	41.58	2.50	40	104.0	80 - 120	
59	Co	72	1	41.74	2.93	40	104.4	80 - 120	
60	Ni	72	1	41.19	1.13	40	103.0	80 - 120	
63	Cu	72	1	41.50	2.85	40	103.8	80 - 120	
66	Zn	72	1	42.88	1.40	40	107.2	80 - 120	
75	As	72	1	42.15	0.85	40	105.4	80 - 120	
78	Se	72	1	43.24	5.70	40	108.1	80 - 120	
95	Mo	72	1	40.82	0.60	40	102.1	80 - 120	
107	Ag	115	1	42.22	1.20	40	105.6	80 - 120	
111	Cd	115	1	41.50	0.91	40	103.8	80 - 120	
118	Sn	115	1	39.23	1.36	40	98.1	80 - 120	
121	Sb	115	1	39.68	1.37	40	99.2	80 - 120	
137	Ba	115	1	41.21	1.00	40	103.0	80 - 120	
205	Tl	165	1	43.48	3.25	40	108.7	80 - 120	
208	Pb	165	1	41.89	0.48	40	104.7	80 - 120	
232	Th	165	1	42.27	1.04	40	105.7	80 - 120	
238	U	165	1	42.59	0.36	40	106.5	80 - 120	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	516548	1.89	511883	100.9	30 - 120	
45	Sc	1	2680966	0.52	2688297	99.7	30 - 120	
72	Ge	1	1673097	1.61	1668870	100.3	30 - 120	
115	In	1	4632516	1.47	4545768	101.9	30 - 120	
165	Ho	1	8961076	1.05	8917520	100.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\166AREF.D\166AREF.D#
Date Acquired:	Nov 9 2011 02:53 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-1-a
Misc Info:	94465 6020
Vial Number:	4108
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	AllRef
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	742.38	3600	
51	V	72	1	0.14	0.14	ppb	13.68	3600	
52	Cr	72	1	0.03	0.03	ppb	60.73	3600	
55	Mn	72	1	236.30	236.30	ppb	0.51	18000	
59	Co	72	1	0.06	0.06	ppb	3.25	3600	
60	Ni	72	1	0.27	0.27	ppb	9.39	3600	
63	Cu	72	1	0.44	0.44	ppb	3.22	3600	
66	Zn	72	1	2.05	2.05	ppb	1.83	3600	
75	As	72	1	2.34	2.34	ppb	0.65	3600	
78	Se	72	1	0.21	0.21	ppb	123.27	3600	
95	Mo	72	1	9.02	9.02	ppb	1.09	3600	
107	Ag	115	1	0.01	0.01	ppb	4.28	3600	
111	Cd	115	1	0.00	0.00	ppb	336.29	3600	
118	Sn	115	1	0.10	0.10	ppb	5.77	3600	
121	Sb	115	1	0.22	0.22	ppb	2.56	3600	
137	Ba	115	1	462.30	462.30	ppb	1.88	3600	
205	Tl	165	1	0.03	0.03	ppb	14.55	3600	
208	Pb	165	1	0.05	0.05	ppb	7.29	3600	
232	Th	165	1	0.05	0.05	ppb	8.67	1000	
238	U	165	1	1.67	1.67	ppb	0.92	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	480087	1.42	511883	93.8	30 - 120	
45	Sc	1	2570425	2.17	2688297	95.6	30 - 120	
72	Ge	1	1526260	1.24	1668870	91.5	30 - 120	
115	In	1	4123917	0.74	4545768	90.7	30 - 120	
165	Ho	1	8383768	1.00	8917520	94.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Dilution Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\167SDIL.D\167SDIL.D#
Date Acquired: Nov 9 2011 02:56 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-1-a SD@5
Misc Info: SERIAL DILUTION
Vial Number: 4109
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SDIL
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Dilution Ref File: C:\ICPCHEM\1\DATA\AG110811.B\166AREF.D\166AREF.D#

QC elements

Element	IS Ref	Tune	Conc.ppb		RSD(%)	Ref Conc.	Actual(%)	QC Range(%)	Flag
9 Be	6	1	-0.02	ppb	0.00	0.00	2641.8	90 - 110	
51 V	72	1	0.04	ppb	19.21	0.03	139.5	90 - 110	
52 Cr	72	1	0.01	ppb	125.66	0.01	151.1	90 - 110	
55 Mn	72	1	49.57	ppb	1.32	47.26	104.9	90 - 110	
59 Co	72	1	0.01	ppb	13.52	0.01	83.4	90 - 110	
60 Ni	72	1	0.02	ppb	59.83	0.05	44.8	90 - 110	
63 Cu	72	1	0.09	ppb	8.88	0.09	109.0	90 - 110	
66 Zn	72	1	0.43	ppb	2.15	0.41	106.0	90 - 110	
75 As	72	1	0.45	ppb	4.20	0.47	97.2	90 - 110	
78 Se	72	1	0.06	ppb	320.28	0.04	144.9	90 - 110	
95 Mo	72	1	1.74	ppb	2.45	1.80	96.2	90 - 110	
107 Ag	115	1	0.00	ppb	9.64	0.00	130.9	90 - 110	
111 Cd	115	1	0.00	ppb	822.15	0.00	95.0	90 - 110	
118 Sn	115	1	0.03	ppb	18.88	0.02	153.9	90 - 110	
121 Sb	115	1	0.04	ppb	4.04	0.04	98.5	90 - 110	
137 Ba	115	1	90.42	ppb	0.37	92.46	97.8	90 - 110	
205 Tl	165	1	0.01	ppb	7.24	0.01	151.0	90 - 110	
208 Pb	165	1	0.01	ppb	14.86	0.01	97.8	90 - 110	
232 Th	165	1	0.01	ppb	22.15	0.01	139.9	90 - 110	
238 U	165	1	0.34	ppb	2.39	0.33	100.7	90 - 110	

ISTD elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	1	501173	0.83	511883	97.9	30 - 120	
45 Sc	1	2662899	0.78	2688297	99.1	30 - 120	
72 Ge	1	1645503	0.70	1668870	98.6	30 - 120	
115 In	1	4374484	1.27	4545768	96.2	30 - 120	
165 Ho	1	8804416	0.87	8917520	98.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Post Digestion Spiked Sample (PDS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\168PDS.D\168PDS.D#
Date Acquired:	Nov 9 2011 02:58 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-1-a PDS
Misc Info:	POST DIGESTION SPIKE
Vial Number:	4110
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	PDS
Prep Dil. Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	210.20	0.00	ppb	0.51	200	105.1	75 - 125	
51 V	72	1	207.20	0.14	ppb	2.22	200	103.5	75 - 125	
52 Cr	72	1	201.70	0.03	ppb	1.89	200	100.8	75 - 125	
55 Mn	72	1	431.80	236.30	ppb	1.68	200	99.0	75 - 125	
59 Co	72	1	193.40	0.06	ppb	0.84	200	96.7	75 - 125	
60 Ni	72	1	198.80	0.27	ppb	1.65	200	99.3	75 - 125	
63 Cu	72	1	189.90	0.44	ppb	1.58	200	94.7	75 - 125	
66 Zn	72	1	196.70	2.05	ppb	1.11	200	97.4	75 - 125	
75 As	72	1	212.40	2.34	ppb	0.77	200	105.0	75 - 125	
78 Se	72	1	207.90	0.21	ppb	1.17	200	103.8	75 - 125	
95 Mo	72	1	220.40	9.02	ppb	1.55	200	105.4	75 - 125	
107 Ag	115	1	48.74	0.01	ppb	2.19	50	97.5	75 - 125	
111 Cd	115	1	203.30	0.00	ppb	0.76	200	101.6	75 - 125	
118 Sn	115	1	203.60	0.10	ppb	1.64	200	101.8	75 - 125	
121 Sb	115	1	208.30	0.22	ppb	1.08	200	104.0	75 - 125	
137 Ba	115	1	669.70	462.30	ppb	1.16	200	101.1	75 - 125	
205 Tl	165	1	190.60	0.03	ppb	1.41	200	95.3	75 - 125	
208 Pb	165	1	187.20	0.05	ppb	2.05	200	93.6	75 - 125	
232 Th	165	1	0.07	0.05	ppb	6.27	200	0.0	75 - 125	
238 U	165	1	200.10	1.67	ppb	3.32	200	99.2	75 - 125	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	472507	0.73	511883	92.3	30 - 120	
45 Sc	1	2516100	0.79	2688297	93.6	30 - 120	
72 Ge	1	1495306	0.94	1668870	89.6	30 - 120	
115 In	1	4042675	0.87	4545768	88.9	30 - 120	
165 Ho	1	8423774	1.68	8917520	94.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Spiked Sample (MS) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\169_MS.D\169_MS.D#		
Date Acquired:	Nov 9 2011 03:01 am	QC Summary:	
Acq. Method:	NormISIS.M	Analytes:	Pass
Operator:	LRD	ISTD:	Pass
Sample Name:	280-22300-c-1-b ms		
Misc Info:	MATRIX SPIKE		
Vial Number:	4111		
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M		
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C		
Last Cal. Update:	Nov 09 2011 02:10 am		
Sample Type:	MS		
Prep Dil. Factor:	1.00		
Autodil Factor:	Undiluted		
Final Dil Factor:	1.00		

Spike Ref. File: ---

QC Elements

Element	IS Ref	Tune	Conc.	Ref Conc		RSD(%)	Spk Amt	Rec(%)	QC Range(%)	QC Flag
9 Be	6	1	42.98	0.00	ppb	1.59	40	107.5	50 - 150	
51 V	72	1	43.60	0.14	ppb	1.94	40	108.6	50 - 150	
52 Cr	72	1	42.35	0.03	ppb	1.02	40	105.8	50 - 150	
55 Mn	72	1	279.50	236.30	ppb	1.94	40	101.2	50 - 150	
59 Co	72	1	41.28	0.06	ppb	1.32	40	103.0	50 - 150	
60 Ni	72	1	38.97	0.27	ppb	2.31	40	96.8	50 - 150	
63 Cu	72	1	38.29	0.44	ppb	0.89	40	94.7	50 - 150	
66 Zn	72	1	41.74	2.05	ppb	0.23	40	99.3	50 - 150	
75 As	72	1	44.98	2.34	ppb	1.04	40	106.2	50 - 150	
78 Se	72	1	42.76	0.21	ppb	3.03	40	106.3	50 - 150	
95 Mo	72	1	51.45	9.02	ppb	2.31	40	105.0	50 - 150	
107 Ag	115	1	39.30	0.01	ppb	1.65	40	98.2	50 - 150	
111 Cd	115	1	41.15	0.00	ppb	0.47	40	102.9	50 - 150	
118 Sn	115	1	40.46	0.10	ppb	0.60	40	100.9	50 - 150	
121 Sb	115	1	41.71	0.22	ppb	1.12	40	103.7	50 - 150	
137 Ba	115	1	517.00	462.30	ppb	2.23	40	102.9	50 - 150	
205 Tl	165	1	41.51	0.03	ppb	1.50	40	103.7	50 - 150	
208 Pb	165	1	39.02	0.05	ppb	1.53	40	97.4	50 - 150	
232 Th	165	1	42.87	0.05	ppb	1.92	40	107.0	50 - 150	
238 U	165	1	44.49	1.67	ppb	1.44	40	106.8	50 - 150	

ISTD Elements

Element	Tune	Counts	RSD(%)	Ref. Counts	Rec(%)	QC Range(%)	QC Flag
6 Li	1	466531	0.43	511883	91.1	30 - 120	
45 Sc	1	2497196	0.09	2688297	92.9	30 - 120	
72 Ge	1	1507624	1.51	1668870	90.3	30 - 120	
115 In	1	4059045	1.15	4545768	89.3	30 - 120	
165 Ho	1	8312207	1.03	8917520	93.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Duplicate Spike (MSD) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\170_MSD.D\170_MSD.D#
Date Acquired: Nov 9 2011 03:04 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-1-c msd
Misc Info: MATRIX SPIKE DUPLICATE
Vial Number: 4112
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: MSD
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

Duplicate Ref File: C:\ICPCHEM\1\DATA\AG110811.B\169_MS.D\169_MS.D#

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Ref Conc	Differ(%)	High Limit	Flag
9	Be	6	1	42.60	ppb	1.67	42.98	0.89	20	
51	V	72	1	44.08	ppb	2.29	43.60	1.09	20	
52	Cr	72	1	43.04	ppb	1.79	42.35	1.62	20	
55	Mn	72	1	285.90	ppb	3.26	279.50	2.26	20	
59	Co	72	1	41.68	ppb	1.00	41.28	0.96	20	
60	Ni	72	1	39.73	ppb	1.96	38.97	1.93	20	
63	Cu	72	1	38.80	ppb	1.34	38.29	1.32	20	
66	Zn	72	1	41.67	ppb	0.98	41.74	0.17	20	
75	As	72	1	45.30	ppb	1.46	44.98	0.71	20	
78	Se	72	1	43.23	ppb	3.83	42.76	1.09	20	
95	Mo	72	1	52.65	ppb	1.76	51.45	2.31	20	
107	Ag	115	1	39.04	ppb	1.88	39.30	0.66	20	
111	Cd	115	1	40.70	ppb	1.35	41.15	1.10	20	
118	Sn	115	1	40.32	ppb	1.85	40.46	0.35	20	
121	Sb	115	1	41.40	ppb	1.29	41.71	0.75	20	
137	Ba	115	1	514.30	ppb	1.93	517.00	0.52	20	
205	Tl	165	1	40.47	ppb	1.09	41.51	2.54	20	
208	Pb	165	1	38.69	ppb	0.56	39.02	0.85	20	
232	Th	165	1	42.14	ppb	0.60	42.87	1.72	20	
238	U	165	1	44.05	ppb	1.05	44.49	0.99	20	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	462764	2.43	511883	90.4	30 - 120	
45	Sc	1	2541695	1.94	2688297	94.5	30 - 120	
72	Ge	1	1483298	1.01	1668870	88.9	30 - 120	
115	In	1	4053874	0.93	4545768	89.2	30 - 120	
165	Ho	1	8351619	0.11	8917520	93.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref. File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\171SMPL.D\171SMPL.D#
Date Acquired: Nov 9 2011 03:07 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-2-a
Misc Info:
Vial Number: 4201
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	138.81	3600	
51	V	72	1	0.48	0.48	ppb	1.02	3600	
52	Cr	72	1	0.35	0.35	ppb	2.11	3600	
55	Mn	72	1	106.00	106.00	ppb	1.57	18000	
59	Co	72	1	0.21	0.21	ppb	4.48	3600	
60	Ni	72	1	0.42	0.42	ppb	8.69	3600	
63	Cu	72	1	0.30	0.30	ppb	3.66	3600	
66	Zn	72	1	2.78	2.78	ppb	1.07	3600	
75	As	72	1	2.80	2.80	ppb	1.71	3600	
78	Se	72	1	0.09	0.09	ppb	254.05	3600	
95	Mo	72	1	7.61	7.61	ppb	0.50	3600	
107	Ag	115	1	0.01	0.01	ppb	6.74	3600	
111	Cd	115	1	0.02	0.02	ppb	44.56	3600	
118	Sn	115	1	0.25	0.25	ppb	7.08	3600	
121	Sb	115	1	0.05	0.05	ppb	2.26	3600	
137	Ba	115	1	229.00	229.00	ppb	1.20	3600	
205	Tl	165	1	0.02	0.02	ppb	5.80	3600	
208	Pb	165	1	0.17	0.17	ppb	2.18	3600	
232	Th	165	1	0.18	0.18	ppb	13.29	1000	
238	U	165	1	0.28	0.28	ppb	0.84	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	473549	0.31	511883	92.5	30 - 120	
45	Sc	1	2523442	0.68	2688297	93.9	30 - 120	
72	Ge	1	1543846	0.56	1668870	92.5	30 - 120	
115	In	1	4149501	1.15	4545768	91.3	30 - 120	
165	Ho	1	8408460	0.47	8917520	94.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\172_CCV.D\172_CCV.D#
Date Acquired:	Nov 9 2011 03:10 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	49.52	ppb	1.18	50	99.0	90 - 110	
51	V	72	1	50.99	ppb	1.97	50	102.0	90 - 110	
52	Cr	72	1	50.08	ppb	1.98	50	100.2	90 - 110	
55	Mn	72	1	50.26	ppb	0.79	50	100.5	90 - 110	
59	Co	72	1	50.86	ppb	1.35	50	101.7	90 - 110	
60	Ni	72	1	49.21	ppb	1.33	50	98.4	90 - 110	
63	Cu	72	1	49.68	ppb	1.04	50	99.4	90 - 110	
66	Zn	72	1	49.39	ppb	0.75	50	98.8	90 - 110	
75	As	72	1	49.44	ppb	0.62	50	98.9	90 - 110	
78	Se	72	1	49.32	ppb	2.81	50	98.6	90 - 110	
95	Mo	72	1	48.97	ppb	1.06	50	97.9	90 - 110	
107	Ag	115	1	50.55	ppb	0.83	50	101.1	90 - 110	
111	Cd	115	1	49.51	ppb	0.48	50	99.0	90 - 110	
118	Sn	115	1	47.73	ppb	1.64	50	95.5	90 - 110	
121	Sb	115	1	48.34	ppb	0.82	50	96.7	90 - 110	
137	Ba	115	1	50.37	ppb	0.94	50	100.7	90 - 110	
205	Tl	165	1	50.78	ppb	1.15	50	101.6	90 - 110	
208	Pb	165	1	48.94	ppb	1.49	50	97.9	90 - 110	
232	Th	165	1	50.25	ppb	1.85	50	100.5	90 - 110	
238	U	165	1	50.18	ppb	0.11	50	100.4	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	494065	1.38	511883	96.5	30 - 120	
45	Sc	1	2586643	2.25	2688297	96.2	30 - 120	
72	Ge	1	1607623	1.46	1668870	96.3	30 - 120	
115	In	1	4416448	0.73	4545768	97.2	30 - 120	
165	Ho	1	8811229	1.28	8917520	98.8	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\173_CCB.D\173_CCB.D#
Date Acquired:	Nov 9 2011 03:13 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.003	ppb	385.24	1.00	
51	V	72	1	0.009	ppb	108.94	1.00	
52	Cr	72	1	0.017	ppb	63.25	1.00	
55	Mn	72	1	0.029	ppb	16.51	1.00	
59	Co	72	1	0.007	ppb	23.16	1.00	
60	Ni	72	1	-0.020	ppb	7.15	1.00	
63	Cu	72	1	0.010	ppb	31.13	1.00	
66	Zn	72	1	-0.020	ppb	42.88	1.00	
75	As	72	1	0.012	ppb	85.08	1.00	
78	Se	72	1	0.056	ppb	146.62	1.00	
95	Mo	72	1	0.014	ppb	67.09	1.00	
107	Ag	115	1	0.014	ppb	10.47	1.00	
111	Cd	115	1	0.003	ppb	115.25	1.00	
118	Sn	115	1	0.000	ppb	9520.10	1.00	
121	Sb	115	1	0.017	ppb	6.91	1.00	
137	Ba	115	1	0.024	ppb	13.44	1.00	
205	Tl	165	1	0.021	ppb	14.69	1.00	
208	Pb	165	1	0.011	ppb	7.65	1.00	
232	Th	165	1	0.052	ppb	9.05	1.00	
238	U	165	1	0.013	ppb	6.70	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	485587	1.18	511883	94.9	30 - 120	
45	Sc	1	2583865	2.21	2688297	96.1	30 - 120	
72	Ge	1	1608983	0.77	1668870	96.4	30 - 120	
115	In	1	4434167	0.65	4545768	97.5	30 - 120	
165	Ho	1	8706724	0.59	8917520	97.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures   0 :Max. Number of Failures Allowed
0 :ISTD Failures   0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\174SMPL.D\174SMPL.D#
Date Acquired:	Nov 9 2011 03:16 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-3-a
Misc Info:	
Vial Number:	4202
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	105.84	3600	
51	V	72	1	0.45	0.45	ppb	16.13	3600	
52	Cr	72	1	0.25	0.25	ppb	9.54	3600	
55	Mn	72	1	123.60	123.60	ppb	2.71	18000	
59	Co	72	1	0.29	0.29	ppb	4.16	3600	
60	Ni	72	1	0.59	0.59	ppb	3.12	3600	
63	Cu	72	1	0.62	0.62	ppb	1.30	3600	
66	Zn	72	1	6.56	6.56	ppb	0.90	3600	
75	As	72	1	3.72	3.72	ppb	2.38	3600	
78	Se	72	1	0.41	0.41	ppb	64.13	3600	
95	Mo	72	1	1.55	1.55	ppb	4.32	3600	
107	Ag	115	1	0.01	0.01	ppb	21.82	3600	
111	Cd	115	1	0.01	0.01	ppb	54.81	3600	
118	Sn	115	1	0.17	0.17	ppb	7.88	3600	
121	Sb	115	1	0.03	0.03	ppb	10.08	3600	
137	Ba	115	1	267.10	267.10	ppb	0.26	3600	
205	Tl	165	1	0.03	0.03	ppb	17.24	3600	
208	Pb	165	1	0.18	0.18	ppb	1.42	3600	
232	Th	165	1	0.07	0.07	ppb	9.03	1000	
238	U	165	1	0.20	0.20	ppb	1.16	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	477580	0.82	511883	93.3	30 - 120	
45	Sc	1	2551600	0.77	2688297	94.9	30 - 120	
72	Ge	1	1556803	1.17	1668870	93.3	30 - 120	
115	In	1	4205353	0.93	4545768	92.5	30 - 120	
165	Ho	1	8476427	0.23	8917520	95.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\175SMPL.D\175SMPL.D#
Date Acquired: Nov 9 2011 03:19 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-4-a
Misc Info:
Vial Number: 4203
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	113.36	3600	
51	V	72	1	0.16	0.16	ppb	15.76	3600	
52	Cr	72	1	0.08	0.08	ppb	11.56	3600	
55	Mn	72	1	160.90	160.90	ppb	2.47	18000	
59	Co	72	1	0.14	0.14	ppb	4.62	3600	
60	Ni	72	1	0.19	0.19	ppb	6.07	3600	
63	Cu	72	1	0.33	0.33	ppb	1.70	3600	
66	Zn	72	1	2.45	2.45	ppb	3.73	3600	
75	As	72	1	0.50	0.50	ppb	2.18	3600	
78	Se	72	1	0.16	0.16	ppb	128.22	3600	
95	Mo	72	1	0.39	0.39	ppb	5.61	3600	
107	Ag	115	1	0.00	0.00	ppb	31.94	3600	
111	Cd	115	1	0.00	0.00	ppb	184.89	3600	
118	Sn	115	1	0.22	0.22	ppb	0.77	3600	
121	Sb	115	1	0.02	0.02	ppb	13.17	3600	
137	Ba	115	1	220.90	220.90	ppb	2.54	3600	
205	Tl	165	1	0.01	0.01	ppb	6.11	3600	
208	Pb	165	1	0.11	0.11	ppb	1.43	3600	
232	Th	165	1	0.02	0.02	ppb	4.26	1000	
238	U	165	1	0.03	0.03	ppb	4.15	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	470293	1.17	511883	91.9	30 - 120	
45	Sc	1	2544439	0.97	2688297	94.6	30 - 120	
72	Ge	1	1525095	0.29	1668870	91.4	30 - 120	
115	In	1	4149107	0.35	4545768	91.3	30 - 120	
165	Ho	1	8468870	0.59	8917520	95.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\176SMPL.D\176SMPL.D#
Date Acquired:	Nov 9 2011 03:22 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-5-a
Misc Info:	
Vial Number:	4204
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	964.98	3600	
51	V	72	1	0.06	0.06	ppb	39.59	3600	
52	Cr	72	1	0.15	0.15	ppb	14.11	3600	
55	Mn	72	1	266.80	266.80	ppb	1.45	18000	
59	Co	72	1	0.06	0.06	ppb	4.73	3600	
60	Ni	72	1	0.35	0.35	ppb	7.95	3600	
63	Cu	72	1	0.24	0.24	ppb	2.81	3600	
66	Zn	72	1	2.46	2.46	ppb	3.48	3600	
75	As	72	1	0.27	0.27	ppb	5.40	3600	
78	Se	72	1	0.12	0.12	ppb	174.84	3600	
95	Mo	72	1	0.27	0.27	ppb	4.74	3600	
107	Ag	115	1	0.01	0.01	ppb	17.89	3600	
111	Cd	115	1	0.01	0.01	ppb	43.33	3600	
118	Sn	115	1	0.44	0.44	ppb	11.42	3600	
121	Sb	115	1	0.02	0.02	ppb	3.67	3600	
137	Ba	115	1	805.30	805.30	ppb	1.86	3600	
205	Tl	165	1	0.02	0.02	ppb	4.46	3600	
208	Pb	165	1	0.06	0.06	ppb	2.47	3600	
232	Th	165	1	0.02	0.02	ppb	29.58	1000	
238	U	165	1	0.08	0.08	ppb	3.61	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	449118	2.48	511883	87.7	30 - 120	
45	Sc	1	2396801	1.81	2688297	89.2	30 - 120	
72	Ge	1	1423018	1.50	1668870	85.3	30 - 120	
115	In	1	3853878	1.93	4545768	84.8	30 - 120	
165	Ho	1	7903628	4.10	8917520	88.6	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\177SMPL.D\177SMPL.D#
Date Acquired:	Nov 9 2011 03:25 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-6-a
Misc Info:	
Vial Number:	4205
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	390.15	3600	
51	V	72	1	0.15	0.15	ppb	8.91	3600	
52	Cr	72	1	0.03	0.03	ppb	1.69	3600	
55	Mn	72	1	182.00	182.00	ppb	2.07	18000	
59	Co	72	1	0.08	0.08	ppb	7.48	3600	
60	Ni	72	1	0.33	0.33	ppb	3.80	3600	
63	Cu	72	1	0.12	0.12	ppb	2.79	3600	
66	Zn	72	1	2.08	2.08	ppb	2.43	3600	
75	As	72	1	0.35	0.35	ppb	5.05	3600	
78	Se	72	1	0.14	0.14	ppb	66.70	3600	
95	Mo	72	1	0.19	0.19	ppb	4.06	3600	
107	Ag	115	1	0.00	0.00	ppb	34.35	3600	
111	Cd	115	1	0.00	0.00	ppb	55.82	3600	
118	Sn	115	1	0.01	0.01	ppb	99.40	3600	
121	Sb	115	1	0.02	0.02	ppb	13.81	3600	
137	Ba	115	1	555.80	555.80	ppb	0.75	3600	
205	Tl	165	1	0.01	0.01	ppb	10.27	3600	
208	Pb	165	1	0.03	0.03	ppb	8.02	3600	
232	Th	165	1	0.00	0.00	ppb	41.57	1000	
238	U	165	1	0.04	0.04	ppb	4.10	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454232	1.06	511883	88.7	30 - 120	
45	Sc	1	2441476	1.55	2688297	90.8	30 - 120	
72	Ge	1	1459554	1.44	1668870	87.5	30 - 120	
115	In	1	4007190	1.35	4545768	88.2	30 - 120	
165	Ho	1	8163298	0.75	8917520	91.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\178SMPL.D\178SMPL.D#
Date Acquired: Nov 9 2011 03:28 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-7-a
Misc Info:
Vial Number: 4206
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	401.31	3600	
51	V	72	1	0.14	0.14	ppb	7.78	3600	
52	Cr	72	1	0.03	0.03	ppb	29.99	3600	
55	Mn	72	1	214.80	214.80	ppb	0.81	18000	
59	Co	72	1	0.07	0.07	ppb	11.80	3600	
60	Ni	72	1	0.30	0.30	ppb	7.53	3600	
63	Cu	72	1	0.05	0.05	ppb	2.52	3600	
66	Zn	72	1	2.05	2.05	ppb	1.92	3600	
75	As	72	1	0.35	0.35	ppb	3.39	3600	
78	Se	72	1	0.01	0.01	ppb	242.01	3600	
95	Mo	72	1	0.10	0.10	ppb	14.18	3600	
107	Ag	115	1	0.00	0.00	ppb	13.87	3600	
111	Cd	115	1	0.00	0.00	ppb	106.36	3600	
118	Sn	115	1	0.00	0.00	ppb	143.71	3600	
121	Sb	115	1	0.02	0.02	ppb	17.05	3600	
137	Ba	115	1	688.80	688.80	ppb	0.97	3600	
205	Tl	165	1	0.01	0.01	ppb	10.04	3600	
208	Pb	165	1	0.01	0.01	ppb	6.13	3600	
232	Th	165	1	0.00	0.00	ppb	52.51	1000	
238	U	165	1	0.02	0.02	ppb	8.51	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	438966	0.94	511883	85.8	30 - 120	
45	Sc	1	2396539	0.41	2688297	89.1	30 - 120	
72	Ge	1	1422227	1.28	1668870	85.2	30 - 120	
115	In	1	3894018	1.44	4545768	85.7	30 - 120	
165	Ho	1	7954413	0.42	8917520	89.2	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\179SMPL.D\179SMPL.D#
Date Acquired: Nov 9 2011 03:31 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-8-a
Misc Info:
Vial Number: 4207
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	220.41	3600	
51	V	72	1	0.04	0.04	ppb	18.85	3600	
52	Cr	72	1	0.01	0.01	ppb	185.54	3600	
55	Mn	72	1	135.30	135.30	ppb	1.76	18000	
59	Co	72	1	0.21	0.21	ppb	4.19	3600	
60	Ni	72	1	0.30	0.30	ppb	8.65	3600	
63	Cu	72	1	0.11	0.11	ppb	8.11	3600	
66	Zn	72	1	1.73	1.73	ppb	1.68	3600	
75	As	72	1	2.33	2.33	ppb	1.18	3600	
78	Se	72	1	0.18	0.18	ppb	107.60	3600	
95	Mo	72	1	0.48	0.48	ppb	2.92	3600	
107	Ag	115	1	0.00	0.00	ppb	89.96	3600	
111	Cd	115	1	0.01	0.01	ppb	80.22	3600	
118	Sn	115	1	0.04	0.04	ppb	8.87	3600	
121	Sb	115	1	0.03	0.03	ppb	18.31	3600	
137	Ba	115	1	324.90	324.90	ppb	0.65	3600	
205	Tl	165	1	0.01	0.01	ppb	20.13	3600	
208	Pb	165	1	0.02	0.02	ppb	11.57	3600	
232	Th	165	1	0.00	0.00	ppb	53.98	1000	
238	U	165	1	0.28	0.28	ppb	0.50	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	454297	0.96	511883	88.8	30 - 120	
45	Sc	1	2463850	1.33	2688297	91.7	30 - 120	
72	Ge	1	1489968	1.74	1668870	89.3	30 - 120	
115	In	1	4034749	1.37	4545768	88.8	30 - 120	
165	Ho	1	8200805	0.15	8917520	92.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures　　0 :Max. Number of Failures Allowed
0 :ISTD Failures　　0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\180SMPL.D\180SMPL.D#
Date Acquired:	Nov 9 2011 03:33 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-9-a
Misc Info:	
Vial Number:	4208
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.04	0.04	ppb	82.97	3600	
51	V	72	1	2.63	2.63	ppb	4.44	3600	
52	Cr	72	1	0.06	0.06	ppb	56.07	3600	
55	Mn	72	1	84.55	84.55	ppb	4.00	18000	
59	Co	72	1	2.16	2.16	ppb	3.05	3600	
60	Ni	72	1	6.16	6.16	ppb	0.32	3600	
63	Cu	72	1	0.59	0.59	ppb	2.49	3600	
66	Zn	72	1	1.75	1.75	ppb	3.99	3600	
75	As	72	1	0.50	0.50	ppb	5.18	3600	
78	Se	72	1	0.39	0.39	ppb	45.27	3600	
95	Mo	72	1	0.71	0.71	ppb	3.48	3600	
107	Ag	115	1	0.00	0.00	ppb	25.14	3600	
111	Cd	115	1	0.01	0.01	ppb	181.94	3600	
118	Sn	115	1	0.02	0.02	ppb	42.03	3600	
121	Sb	115	1	0.03	0.03	ppb	8.65	3600	
137	Ba	115	1	49.98	49.98	ppb	1.06	3600	
205	Tl	165	1	0.01	0.01	ppb	19.72	3600	
208	Pb	165	1	0.03	0.03	ppb	7.27	3600	
232	Th	165	1	0.01	0.01	ppb	14.12	1000	
238	U	165	1	15.02	15.02	ppb	1.01	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	417262	1.88	511883	81.5	30 - 120	
45	Sc	1	2298555	1.25	2688297	85.5	30 - 120	
72	Ge	1	1375881	1.14	1668870	82.4	30 - 120	
115	In	1	3816328	0.92	4545768	84.0	30 - 120	
165	Ho	1	7707277	1.02	8917520	86.4	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\181SMPL.D\181SMPL.D#
Date Acquired:	Nov 9 2011 03:36 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-10-a
Misc Info:	
Vial Number:	4209
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	374.94	3600	
51	V	72	1	0.19	0.19	ppb	17.61	3600	
52	Cr	72	1	0.16	0.16	ppb	7.04	3600	
55	Mn	72	1	114.80	114.80	ppb	1.15	18000	
59	Co	72	1	0.18	0.18	ppb	4.95	3600	
60	Ni	72	1	0.19	0.19	ppb	17.97	3600	
63	Cu	72	1	0.09	0.09	ppb	12.69	3600	
66	Zn	72	1	1.62	1.62	ppb	1.30	3600	
75	As	72	1	2.23	2.23	ppb	3.11	3600	
78	Se	72	1	0.12	0.12	ppb	110.23	3600	
95	Mo	72	1	1.16	1.16	ppb	3.35	3600	
107	Ag	115	1	0.00	0.00	ppb	31.54	3600	
111	Cd	115	1	0.00	0.00	ppb	262.70	3600	
118	Sn	115	1	0.02	0.02	ppb	60.01	3600	
121	Sb	115	1	0.01	0.01	ppb	22.75	3600	
137	Ba	115	1	282.50	282.50	ppb	0.62	3600	
205	Tl	165	1	0.01	0.01	ppb	9.79	3600	
208	Pb	165	1	0.09	0.09	ppb	1.31	3600	
232	Th	165	1	0.04	0.04	ppb	6.46	1000	
238	U	165	1	0.19	0.19	ppb	2.94	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	452032	0.28	511883	88.3	30 - 120	
45	Sc	1	2420185	0.94	2688297	90.0	30 - 120	
72	Ge	1	1481859	2.10	1668870	88.8	30 - 120	
115	In	1	4059521	0.99	4545768	89.3	30 - 120	
165	Ho	1	8247891	0.69	8917520	92.5	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\182_CCV.D\182_CCV.D#
Date Acquired:	Nov 9 2011 03:39 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.09	ppb	1.64	50	100.2	90 - 110	
51	V	72	1	51.60	ppb	0.71	50	103.2	90 - 110	
52	Cr	72	1	51.13	ppb	1.70	50	102.3	90 - 110	
55	Mn	72	1	50.99	ppb	0.82	50	102.0	90 - 110	
59	Co	72	1	51.12	ppb	2.08	50	102.2	90 - 110	
60	Ni	72	1	49.60	ppb	0.38	50	99.2	90 - 110	
63	Cu	72	1	49.95	ppb	0.85	50	99.9	90 - 110	
66	Zn	72	1	49.79	ppb	0.17	50	99.6	90 - 110	
75	As	72	1	49.94	ppb	0.28	50	99.9	90 - 110	
78	Se	72	1	50.67	ppb	2.41	50	101.3	90 - 110	
95	Mo	72	1	49.63	ppb	1.00	50	99.3	90 - 110	
107	Ag	115	1	49.77	ppb	1.65	50	99.5	90 - 110	
111	Cd	115	1	49.41	ppb	1.08	50	98.8	90 - 110	
118	Sn	115	1	48.16	ppb	0.50	50	96.3	90 - 110	
121	Sb	115	1	48.53	ppb	0.89	50	97.1	90 - 110	
137	Ba	115	1	50.31	ppb	1.29	50	100.6	90 - 110	
205	Tl	165	1	51.36	ppb	0.86	50	102.7	90 - 110	
208	Pb	165	1	50.08	ppb	0.57	50	100.2	90 - 110	
232	Th	165	1	50.98	ppb	0.93	50	102.0	90 - 110	
238	U	165	1	51.74	ppb	0.57	50	103.5	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	470704	0.73	511883	92.0	30 - 120	
45	Sc	1	2494139	0.82	2688297	92.8	30 - 120	
72	Ge	1	1548741	0.32	1668870	92.8	30 - 120	
115	In	1	4313322	1.14	4545768	94.9	30 - 120	
165	Ho	1	8497951	0.79	8917520	95.3	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\183_CCB.D\183_CCB.D#
Date Acquired:	Nov 9 2011 03:42 am
Operator:	LRD
Sample Name:	CCB-1118467
Misc Info:	
Vial Number:	1307
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	0.006	ppb	258.15	1.00	
51	V	72	1	0.004	ppb	502.56	1.00	
52	Cr	72	1	-0.002	ppb	1337.70	1.00	
55	Mn	72	1	0.021	ppb	22.30	1.00	
59	Co	72	1	0.006	ppb	4.47	1.00	
60	Ni	72	1	-0.025	ppb	11.85	1.00	
63	Cu	72	1	0.009	ppb	80.21	1.00	
66	Zn	72	1	-0.024	ppb	23.07	1.00	
75	As	72	1	-0.002	ppb	533.23	1.00	
78	Se	72	1	0.042	ppb	282.83	1.00	
95	Mo	72	1	0.001	ppb	759.22	1.00	
107	Ag	115	1	0.012	ppb	31.74	1.00	
111	Cd	115	1	0.002	ppb	488.67	1.00	
118	Sn	115	1	-0.005	ppb	21.46	1.00	
121	Sb	115	1	0.016	ppb	19.05	1.00	
137	Ba	115	1	0.026	ppb	15.66	1.00	
205	Tl	165	1	0.020	ppb	13.89	1.00	
208	Pb	165	1	0.009	ppb	9.97	1.00	
232	Th	165	1	0.051	ppb	7.95	1.00	
238	U	165	1	0.010	ppb	4.25	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	467131	0.55	511883	91.3	30 - 120	
45	Sc	1	2492413	0.79	2688297	92.7	30 - 120	
72	Ge	1	1574009	1.63	1668870	94.3	30 - 120	
115	In	1	4311366	1.10	4545768	94.8	30 - 120	
165	Ho	1	8524186	1.05	8917520	95.6	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\184SMPL.D\184SMPL.D#
Date Acquired:	Nov 9 2011 03:45 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-11-a
Misc Info:	
Vial Number:	4210
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	26.37	3600	
51	V	72	1	2.13	2.13	ppb	2.07	3600	
52	Cr	72	1	0.03	0.03	ppb	4.91	3600	
55	Mn	72	1	2.72	2.72	ppb	1.27	18000	
59	Co	72	1	0.05	0.05	ppb	9.74	3600	
60	Ni	72	1	0.33	0.33	ppb	4.07	3600	
63	Cu	72	1	0.16	0.16	ppb	8.92	3600	
66	Zn	72	1	1.68	1.68	ppb	2.52	3600	
75	As	72	1	0.44	0.44	ppb	3.50	3600	
78	Se	72	1	1.26	1.26	ppb	23.52	3600	
95	Mo	72	1	0.33	0.33	ppb	8.69	3600	
107	Ag	115	1	0.01	0.01	ppb	33.39	3600	
111	Cd	115	1	0.00	0.00	ppb	457.13	3600	
118	Sn	115	1	-0.01	-0.01	ppb	84.83	3600	
121	Sb	115	1	0.01	0.01	ppb	6.68	3600	
137	Ba	115	1	356.50	356.50	ppb	0.71	3600	
205	Tl	165	1	0.02	0.02	ppb	30.36	3600	
208	Pb	165	1	0.02	0.02	ppb	7.88	3600	
232	Th	165	1	0.03	0.03	ppb	13.56	1000	
238	U	165	1	10.50	10.50	ppb	0.75	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	429519	0.94	511883	83.9	30 - 120	
45	Sc	1	2405506	0.69	2688297	89.5	30 - 120	
72	Ge	1	1447597	0.51	1668870	86.7	30 - 120	
115	In	1	3919463	0.28	4545768	86.2	30 - 120	
165	Ho	1	8003360	0.63	8917520	89.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\185SMPL.D\185SMPL.D#
Date Acquired:	Nov 9 2011 03:48 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-12-a
Misc Info:	
Vial Number:	4211
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.00	0.00	ppb	578.32	3600	
51	V	72	1	0.48	0.48	ppb	10.01	3600	
52	Cr	72	1	0.01	0.01	ppb	64.59	3600	
55	Mn	72	1	324.90	324.90	ppb	1.82	18000	
59	Co	72	1	0.47	0.47	ppb	5.23	3600	
60	Ni	72	1	0.49	0.49	ppb	5.74	3600	
63	Cu	72	1	0.07	0.07	ppb	21.78	3600	
66	Zn	72	1	2.07	2.07	ppb	2.53	3600	
75	As	72	1	2.06	2.06	ppb	1.02	3600	
78	Se	72	1	0.24	0.24	ppb	65.28	3600	
95	Mo	72	1	4.67	4.67	ppb	1.58	3600	
107	Ag	115	1	0.00	0.00	ppb	106.66	3600	
111	Cd	115	1	0.00	0.00	ppb	88.61	3600	
118	Sn	115	1	0.04	0.04	ppb	18.95	3600	
121	Sb	115	1	0.03	0.03	ppb	19.37	3600	
137	Ba	115	1	480.70	480.70	ppb	1.82	3600	
205	Tl	165	1	0.01	0.01	ppb	9.15	3600	
208	Pb	165	1	0.04	0.04	ppb	18.67	3600	
232	Th	165	1	0.01	0.01	ppb	6.98	1000	
238	U	165	1	1.74	1.74	ppb	1.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	436638	0.88	511883	85.3	30 - 120	
45	Sc	1	2405130	0.55	2688297	89.5	30 - 120	
72	Ge	1	1438329	1.13	1668870	86.2	30 - 120	
115	In	1	3954536	0.31	4545768	87.0	30 - 120	
165	Ho	1	8036430	0.37	8917520	90.1	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\186SMPL.D\186SMPL.D#
Date Acquired: Nov 9 2011 03:51 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-13-a
Misc Info:
Vial Number: 4212
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	5.20	3600	
51	V	72	1	0.16	0.16	ppb	5.75	3600	
52	Cr	72	1	0.12	0.12	ppb	16.40	3600	
55	Mn	72	1	138.90	138.90	ppb	1.60	18000	
59	Co	72	1	0.22	0.22	ppb	7.90	3600	
60	Ni	72	1	0.46	0.46	ppb	9.51	3600	
63	Cu	72	1	0.31	0.31	ppb	2.95	3600	
66	Zn	72	1	3.01	3.01	ppb	0.61	3600	
75	As	72	1	4.30	4.30	ppb	0.72	3600	
78	Se	72	1	0.26	0.26	ppb	39.50	3600	
95	Mo	72	1	4.02	4.02	ppb	1.92	3600	
107	Ag	115	1	0.00	0.00	ppb	39.46	3600	
111	Cd	115	1	0.01	0.01	ppb	131.28	3600	
118	Sn	115	1	0.08	0.08	ppb	21.83	3600	
121	Sb	115	1	0.20	0.20	ppb	3.46	3600	
137	Ba	115	1	336.10	336.10	ppb	0.66	3600	
205	Tl	165	1	0.01	0.01	ppb	15.77	3600	
208	Pb	165	1	0.09	0.09	ppb	3.18	3600	
232	Th	165	1	0.05	0.05	ppb	4.47	1000	
238	U	165	1	2.43	2.43	ppb	1.54	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	441618	2.18	511883	86.3	30 - 120	
45	Sc	1	2404187	1.27	2688297	89.4	30 - 120	
72	Ge	1	1470899	0.88	1668870	88.1	30 - 120	
115	In	1	4043567	0.57	4545768	89.0	30 - 120	
165	Ho	1	8204240	1.18	8917520	92.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\187SMPL.D\187SMPL.D#
Date Acquired: Nov 9 2011 03:54 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-14-a
Misc Info:
Vial Number: 4301
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	110.95	3600	
51	V	72	1	0.31	0.31	ppb	0.70	3600	
52	Cr	72	1	0.12	0.12	ppb	2.24	3600	
55	Mn	72	1	300.10	300.10	ppb	1.02	18000	
59	Co	72	1	0.47	0.47	ppb	1.43	3600	
60	Ni	72	1	0.55	0.55	ppb	8.77	3600	
63	Cu	72	1	0.17	0.17	ppb	2.75	3600	
66	Zn	72	1	1.91	1.91	ppb	1.42	3600	
75	As	72	1	1.17	1.17	ppb	2.38	3600	
78	Se	72	1	0.26	0.26	ppb	74.73	3600	
95	Mo	72	1	1.11	1.11	ppb	5.75	3600	
107	Ag	115	1	0.00	0.00	ppb	51.04	3600	
111	Cd	115	1	0.00	0.00	ppb	390.43	3600	
118	Sn	115	1	0.03	0.03	ppb	26.23	3600	
121	Sb	115	1	0.01	0.01	ppb	23.25	3600	
137	Ba	115	1	618.60	618.60	ppb	1.08	3600	
205	Tl	165	1	0.01	0.01	ppb	5.64	3600	
208	Pb	165	1	0.05	0.05	ppb	3.26	3600	
232	Th	165	1	0.02	0.02	ppb	10.69	1000	
238	U	165	1	0.48	0.48	ppb	0.23	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	425913	1.18	511883	83.2	30 - 120	
45	Sc	1	2363681	1.14	2688297	87.9	30 - 120	
72	Ge	1	1398801	0.34	1668870	83.8	30 - 120	
115	In	1	3864577	1.05	4545768	85.0	30 - 120	
165	Ho	1	7851693	0.42	8917520	88.0	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\188SMPL.D\188SMPL.D#
Date Acquired:	Nov 9 2011 03:57 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-16-a
Misc Info:	
Vial Number:	4302
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.01	0.01	ppb	227.48	3600	
51	V	72	1	0.20	0.20	ppb	7.51	3600	
52	Cr	72	1	0.01	0.01	ppb	42.06	3600	
55	Mn	72	1	150.10	150.10	ppb	0.97	18000	
59	Co	72	1	0.36	0.36	ppb	4.09	3600	
60	Ni	72	1	0.30	0.30	ppb	16.51	3600	
63	Cu	72	1	0.08	0.08	ppb	2.66	3600	
66	Zn	72	1	2.10	2.10	ppb	2.54	3600	
75	As	72	1	1.10	1.10	ppb	4.78	3600	
78	Se	72	1	0.05	0.05	ppb	417.13	3600	
95	Mo	72	1	0.70	0.70	ppb	2.12	3600	
107	Ag	115	1	0.00	0.00	ppb	33.06	3600	
111	Cd	115	1	0.00	0.00	ppb	487.74	3600	
118	Sn	115	1	0.01	0.01	ppb	24.00	3600	
121	Sb	115	1	0.01	0.01	ppb	21.55	3600	
137	Ba	115	1	505.30	505.30	ppb	1.44	3600	
205	Tl	165	1	0.01	0.01	ppb	10.89	3600	
208	Pb	165	1	0.02	0.02	ppb	5.23	3600	
232	Th	165	1	0.00	0.00	ppb	27.38	1000	
238	U	165	1	3.03	3.03	ppb	0.23	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	428691	1.11	511883	83.7	30 - 120	
45	Sc	1	2352792	1.89	2688297	87.5	30 - 120	
72	Ge	1	1426925	1.16	1668870	85.5	30 - 120	
115	In	1	3922551	0.62	4545768	86.3	30 - 120	
165	Ho	1	8014279	0.40	8917520	89.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\189SMPL.D\189SMPL.D#
Date Acquired:	Nov 9 2011 04:00 am
Acq. Method:	NormISIS.M
Operator:	LRD
Sample Name:	280-22300-c-17-a
Misc Info:	
Vial Number:	4303
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update:	Nov 09 2011 02:10 am
Sample Type:	SA
Dilution Factor:	1.00
Autodil Factor:	Undiluted
Final Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.03	0.03	ppb	50.96	3600	
51	V	72	1	0.54	0.54	ppb	1.11	3600	
52	Cr	72	1	0.15	0.15	ppb	9.75	3600	
55	Mn	72	1	250.10	250.10	ppb	0.60	18000	
59	Co	72	1	0.61	0.61	ppb	1.90	3600	
60	Ni	72	1	0.99	0.99	ppb	5.06	3600	
63	Cu	72	1	0.13	0.13	ppb	7.24	3600	
66	Zn	72	1	2.24	2.24	ppb	0.32	3600	
75	As	72	1	8.83	8.83	ppb	0.11	3600	
78	Se	72	1	0.43	0.43	ppb	26.66	3600	
95	Mo	72	1	4.88	4.88	ppb	1.46	3600	
107	Ag	115	1	0.00	0.00	ppb	52.93	3600	
111	Cd	115	1	0.01	0.01	ppb	39.24	3600	
118	Sn	115	1	0.01	0.01	ppb	97.05	3600	
121	Sb	115	1	0.39	0.39	ppb	6.21	3600	
137	Ba	115	1	240.00	240.00	ppb	0.76	3600	
205	Tl	165	1	0.01	0.01	ppb	7.08	3600	
208	Pb	165	1	0.14	0.14	ppb	2.93	3600	
232	Th	165	1	0.06	0.06	ppb	2.68	1000	
238	U	165	1	8.43	8.43	ppb	0.22	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	403908	0.33	511883	78.9	30 - 120	
45	Sc	1	2223024	1.86	2688297	82.7	30 - 120	
72	Ge	1	1377674	0.51	1668870	82.6	30 - 120	
115	In	1	3759832	0.37	4545768	82.7	30 - 120	
165	Ho	1	7748314	0.78	8917520	86.9	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\190SMPL.D\190SMPL.D#
Date Acquired: Nov 9 2011 04:03 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-18-a
Misc Info:
Vial Number: 4304
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	42.64	3600	
51	V	72	1	1.21	1.21	ppb	0.96	3600	
52	Cr	72	1	0.05	0.05	ppb	36.67	3600	
55	Mn	72	1	452.50	452.50	ppb	0.15	18000	
59	Co	72	1	1.58	1.58	ppb	0.75	3600	
60	Ni	72	1	2.24	2.24	ppb	2.66	3600	
63	Cu	72	1	0.22	0.22	ppb	6.18	3600	
66	Zn	72	1	1.63	1.63	ppb	1.45	3600	
75	As	72	1	0.67	0.67	ppb	6.93	3600	
78	Se	72	1	0.16	0.16	ppb	141.70	3600	
95	Mo	72	1	0.18	0.18	ppb	7.39	3600	
107	Ag	115	1	0.00	0.00	ppb	21.23	3600	
111	Cd	115	1	0.03	0.03	ppb	38.91	3600	
118	Sn	115	1	0.00	0.00	ppb	90.94	3600	
121	Sb	115	1	0.02	0.02	ppb	13.19	3600	
137	Ba	115	1	94.65	94.65	ppb	0.47	3600	
205	Tl	165	1	0.01	0.01	ppb	7.21	3600	
208	Pb	165	1	0.05	0.05	ppb	6.09	3600	
232	Th	165	1	0.01	0.01	ppb	20.58	1000	
238	U	165	1	4.95	4.95	ppb	0.59	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	403554	1.26	511883	78.8	30 - 120	
45	Sc	1	2245016	0.68	2688297	83.5	30 - 120	
72	Ge	1	1369668	0.57	1668870	82.1	30 - 120	
115	In	1	3812499	0.30	4545768	83.9	30 - 120	
165	Ho	1	7727248	0.27	8917520	86.7	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\191SMPL.D\191SMPL.D#
Date Acquired: Nov 9 2011 04:06 am
Acq. Method: NormISIS.M
Operator: LRD
Sample Name: 280-22300-c-19-a
Misc Info:
Vial Number: 4305
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal. Update: Nov 09 2011 02:10 am
Sample Type: SA
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	High Limit	Flag
9	Be	6	1	0.02	0.02	ppb	103.84	3600	
51	V	72	1	0.53	0.53	ppb	6.09	3600	
52	Cr	72	1	0.15	0.15	ppb	14.67	3600	
55	Mn	72	1	249.60	249.60	ppb	0.76	18000	
59	Co	72	1	0.63	0.63	ppb	3.88	3600	
60	Ni	72	1	0.73	0.73	ppb	4.94	3600	
63	Cu	72	1	0.12	0.12	ppb	6.57	3600	
66	Zn	72	1	2.01	2.01	ppb	1.89	3600	
75	As	72	1	8.79	8.79	ppb	2.51	3600	
78	Se	72	1	0.14	0.14	ppb	108.59	3600	
95	Mo	72	1	4.67	4.67	ppb	1.54	3600	
107	Ag	115	1	0.00	0.00	ppb	26.42	3600	
111	Cd	115	1	0.01	0.01	ppb	33.93	3600	
118	Sn	115	1	0.01	0.01	ppb	67.19	3600	
121	Sb	115	1	0.38	0.38	ppb	3.24	3600	
137	Ba	115	1	237.40	237.40	ppb	2.75	3600	
205	Tl	165	1	0.01	0.01	ppb	11.17	3600	
208	Pb	165	1	0.10	0.10	ppb	1.63	3600	
232	Th	165	1	0.05	0.05	ppb	8.92	1000	
238	U	165	1	8.41	8.41	ppb	1.26	3600	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	396154	0.45	511883	77.4	30 - 120	
45	Sc	1	2236878	1.18	2688297	83.2	30 - 120	
72	Ge	1	1354643	0.51	1668870	81.2	30 - 120	
115	In	1	3731643	2.02	4545768	82.1	30 - 120	
165	Ho	1	7691388	1.01	8917520	86.3	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File:	C:\ICPCHEM\1\DATA\AG110811.B\192_CCV.D\192_CCV.D#
Date Acquired:	Nov 9 2011 04:09 am
Operator:	LRD
Sample Name:	CCV-1118466
Misc Info:	
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File:	C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update:	Nov 09 2011 02:10 am
Sample Type:	CCV
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	Expected	Rec(%)	QC Range(%)	Flag
9	Be	6	1	50.92	ppb	2.72	50	101.8	90 - 110	
51	V	72	1	50.42	ppb	1.13	50	100.8	90 - 110	
52	Cr	72	1	50.13	ppb	0.60	50	100.3	90 - 110	
55	Mn	72	1	50.61	ppb	1.02	50	101.2	90 - 110	
59	Co	72	1	51.40	ppb	0.85	50	102.8	90 - 110	
60	Ni	72	1	49.61	ppb	0.59	50	99.2	90 - 110	
63	Cu	72	1	49.10	ppb	0.26	50	98.2	90 - 110	
66	Zn	72	1	49.59	ppb	0.37	50	99.2	90 - 110	
75	As	72	1	50.10	ppb	0.98	50	100.2	90 - 110	
78	Se	72	1	50.29	ppb	0.63	50	100.6	90 - 110	
95	Mo	72	1	49.92	ppb	1.04	50	99.8	90 - 110	
107	Ag	115	1	49.70	ppb	2.57	50	99.4	90 - 110	
111	Cd	115	1	48.81	ppb	1.67	50	97.6	90 - 110	
118	Sn	115	1	47.30	ppb	1.62	50	94.6	90 - 110	
121	Sb	115	1	48.28	ppb	2.15	50	96.6	90 - 110	
137	Ba	115	1	49.97	ppb	3.03	50	99.9	90 - 110	
205	Tl	165	1	52.03	ppb	0.52	50	104.1	90 - 110	
208	Pb	165	1	50.22	ppb	2.15	50	100.4	90 - 110	
232	Th	165	1	52.05	ppb	1.72	50	104.1	90 - 110	
238	U	165	1	51.82	ppb	2.30	50	103.6	90 - 110	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	442214	0.79	511883	86.4	30 - 120	
45	Sc	1	2385683	1.58	2688297	88.7	30 - 120	
72	Ge	1	1488038	0.60	1668870	89.2	30 - 120	
115	In	1	4240661	2.62	4545768	93.3	30 - 120	
165	Ho	1	8309642	1.41	8917520	93.2	30 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	C:\ICPCHEM\1\7500\
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures
0 :ISTD Failures

0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\AG110811.B\193_CCB.D\193_CCB.D#
Date Acquired: Nov 9 2011 04:11 am
Operator: LRD
Sample Name: CCB-1118467
Misc Info:
Vial Number: 1307
Current Method: C:\ICPCHEM\1\METHODS\NormISIS.M
Calibration File: C:\ICPCHEM\1\CALIB\NormISIS.C
Last Cal Update: Nov 09 2011 02:10 am
Sample Type: CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.		RSD(%)	High Limit	Flag
9	Be	6	1	-0.002	ppb	2.33	1.00	
51	V	72	1	0.021	ppb	28.08	1.00	
52	Cr	72	1	0.002	ppb	720.95	1.00	
55	Mn	72	1	0.025	ppb	23.78	1.00	
59	Co	72	1	0.008	ppb	75.38	1.00	
60	Ni	72	1	-0.024	ppb	50.23	1.00	
63	Cu	72	1	0.011	ppb	17.39	1.00	
66	Zn	72	1	-0.033	ppb	6.33	1.00	
75	As	72	1	-0.001	ppb	707.65	1.00	
78	Se	72	1	0.295	ppb	93.52	1.00	
95	Mo	72	1	0.007	ppb	48.14	1.00	
107	Ag	115	1	0.011	ppb	30.69	1.00	
111	Cd	115	1	0.003	ppb	130.53	1.00	
118	Sn	115	1	-0.005	ppb	237.72	1.00	
121	Sb	115	1	0.015	ppb	8.44	1.00	
137	Ba	115	1	0.033	ppb	34.07	1.00	
205	Tl	165	1	0.021	ppb	9.59	1.00	
208	Pb	165	1	0.008	ppb	23.95	1.00	
232	Th	165	1	0.055	ppb	8.53	1.00	
238	U	165	1	0.012	ppb	7.26	1.00	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	438499	0.33	511883	85.7	30 - 120	
45	Sc	1	2391076	1.92	2688297	88.9	30 - 120	
72	Ge	1	1503556	0.14	1668870	90.1	30 - 120	
115	In	1	4177748	1.79	4545768	91.9	30 - 120	
165	Ho	1	8189159	0.32	8917520	91.8	30 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 C:\ICPCHEM\1\7500\
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\AG110811.B\150CALB.D\150CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

95431 – 6020 water
95436 – soil

TestAmerica Denver

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ICP/MS Technical Data Review Checklist

Lab Project ID Number(s): see attached cover sheet   Check Method/SOP Used: 6020/DV-MT-0018   200.8/DV-MT-0002

Review Items	Level 1 Yes	Level 1 No	Level 1 N/A	Level 2	Comments & Samples Affected
Tune					
1. Tune solution analyzed min. of 4 times for 6020 or 5 times for 200.8?	✓			✓	
2. Tune RSD <5%?	✓			✓	
2. Resolution ≤ 0.9 AMU full width at 10% peak height? **NOTE**: This also satisfies 200.8, 1.0 AMU at 5% peak height	✓			✓	
Initial Calibration					
1. Done with a minimum of 3 integrations of a high standard and blank?	✓			✓	
2. ICV/CCV run at beginning of run, 10% frequency, and end of run? Results with 10% of expected value?	✓			✓	
3. ICB/CCB run at beginning of run, 10% frequency, and end of run? Results +/- RL	✓			✓	
4. ICSA/AB analyzed at beginning of run and every 12 hours and results 80- 120% of TV?	✓			✓	
5. RL Std analyzed at beginning of run and results +/- 50% of TV(for AFCEE 4.0, DoD V3 +/- 20% of true value)?	✓			✓	
Client Samples & QC Sample Results					
1. Were all samples within linear range, ≤ 90% of LDR for 200.8?	✓			✓	
2. Dilutions due to target elements? ____ Dilutions for other reasons? ✓	✓			✓	
3. All reported results bracketed by in control QC?	✓			✓	
4. All 6020 internal standards for all analyses 30-120% of intensities in blank or all 200.8 internal standards 60-125%?	✓			✓	
5. Was a 5X serial dilution analyzed for 6020 and, if so, are results ± 10% of original result, if original ≥ 100x MDL?	✓			✓	
6. LCS included in batch and within QC limits?	✓			✓	
7. Method blank included and <1/2RL?	✓			✓	
8. MS and MSD included in batch?	✓			✓	
9. PDS analyzed and recovery 75-125%?	✓			✓	
10. Manual calculations documented properly and checked?	✓			✓	
11. Are non-conformances documented on an NCM?	✓			✓	
12. Is the appropriate raw data included?	✓			✓	
13. Are all results manually entered into LIMS verified? Are all electronic data files archived to the appropriate network locations?	✓			✓	
14. Were special client requirements met?	✓			✓	

1st Level Reviewer: [illegible]   Date: 11/9/11

2nd Level Reviewer: [illegible]   Date: 11/9/11

L:\QA\Edit\FORMS\Data Review\ICPMS

Rev. 2, 6/12/08

METALS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-22438-2

SDG No.:

Batch Number: 94961 Batch Start Date: 11/08/11 05:15 Batch Analyst: Ivey, Crystal L

Batch Method: 3020A Batch End Date: 11/08/11 10:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS CALSTD-1 00054	MS CALSTD-2 00053	
MB 280-94961/1		3020A, 6020A			50 mL	50 mL			
LCS 280-94961/2		3020A, 6020A			50 mL	50 mL	0.1 mL	0.1 mL	
280-22438-C-11	MV01 IDW01	3020A, 6020A	T	<2	50 mL	50 mL			
280-22438-C-11 MS	MV01 IDW01	3020A, 6020A	T	<2	50 mL	50 mL	0.1 mL	0.1 mL	
280-22438-C-11 MSD	MV01 IDW01	3020A, 6020A	T	<2	50 mL	50 mL	0.1 mL	0.1 mL	

Batch Notes	
Lot # of Nitric Acid	K23022
Hot Block ID number	05
Oven, Bath or Block Temperature 1	95/C-1 Degrees C
Pipette ID	MET-007
ID number of the thermometer	908002329
Digestion Tube/Cup Lot #	1107181
Vendor of Reagent used	JTBAKER

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID 3, 8, 3, 9, 41, 34, 11/4/11

Temperature on Receipt ______

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client: UXB (AMEC)	Project Manager: D. Sharp	Date: 11/3/11	Chain of Custody Number: 148991
Address: 10239 Technology Dr.	Telephone Number (Area Code)/Fax Number: 865-603-9863	Lab Number	Page 1 of 1
City: Knoxville; State: TN; Zip Code: 37932	Site Contact: D Sharp; Lab Contact: J. Blankfield		
Project Name and Location (State): Martha's Vineyard RI, MA	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8321B	6020A	Special Instructions/ Conditions of Receipt
MG37 GW0006	11/2/11	0850		X				2		1						Filtered in field
MG37 GW0010		0850		X				2		1						
MG38 GW0007		1008		X				2		1						
MG40 GW0009		1049		X				2		1						
TP02 GW0011		1317		X				2		1						
TP04 GW0013		1455		X				2		1						
TP04 GW0014		1455		X				2		1						
TP03 GW0012		1533		X				2		1						
TP23 SB182		1255				X		1		1						
TP24 SB133		1305				X		1		1						
MV01 IDW01	11/3/11	0900		X				2		1						48 hr turn on waste sample.

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 1 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other except for MV01-IDW01 24hr. turn

QC Requirements (Specify)

1. Relinquished By: Donna Sharp	Date: 11/3/11	Time: 1100	1. Received By: [signature]	Date: 11/4/11	Time: 0930
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID 2.4, 3.4, #1, TH 11/4/11

Temperature on Receipt ______

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client	Project Manager	Date	Chain of Custody Number
UXB (AMEC)	D. Sharp	11/2/11	143999
Address: 10239 Technology Dr.	Telephone Number (Area Code)/Fax Number: 865-603-9863	Lab Number	Page 1 of 1
City: Knoxville; State: TN; Zip Code: 37932	Site Contact: D. Sharp; Lab Contact: J. Blankfield		
Project Name and Location (State): Martha's Vineyard RI	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8321B	6020A	Special Instructions/ Conditions of Receipt
CP29 GW002	11/1/11	1305		X			2		1				2	1	Filtered in field
CP31 GW004		1456		X			2		1				2	1	
CP31 GW005		1456		X			2		1				2	1	
CP44 SD014		1601			X		2						1	1	
CP45 SD015		1550			X		2						1	1	
CP45 SD016		1550			X		2						1	1	
CP46 SD017 DS "b"		1540			X		2						1	1	
CP47 GW00~~6~~015	11/1/11	1315		X			2		1				2	1	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☑ Archive For 3 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other ______

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Donna Sharp	11/3/11	1100	1. Received By: [signature]	11/4/11	0930
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: UXB International, Inc. Job Number: 280-22438-2

Login Number: 22438 **List Source: TestAmerica Denver**
List Number: 1
Creator: Bindel, Aaron M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Job 22438-1: Sample ID discrepancy between info on COC and labels for sx #14.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Job 22438-1: 1 OF 2 Ambers RCVD BROKEN SAMPLE -003. Suff. vol. remains.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

DATA QUALITY REVIEW and VALIDATION REPORT
FOR
The Former Cape Poge Little Neck Bomb Target Area of Investigation, the Former Moving Target Machine Gun Range at South Beach Area of Investigation, and the Tisbury Great Pond Area of Investigation
Martha's Vineyard, Massachusetts

(Samples Collected Between October 13 and November 2, 2011)

Prepared for:

U.S. Army Engineering & Support Center
Huntsville, Alabama

Submitted to:
UXB International, Inc.

Prepared by:

amec

AMEC Environment & Infrastructure, Inc.
7376 SW Durham Road
Portland, Oregon 97224

Contract No. W912DY-04-D-0019
Task Order No. 0006

FEBRUARY 2012

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TABLE OF CONTENTS

TABLES

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ACRONYMS AND ABBREVIATIONS

AMEC	AMEC Environment & Infrastructure, Inc.
ADR	Automated Data Review
AOI	Area of Investigation
CCAL	continuing calibration verification
COC	chain of custody
°C	degrees Celsius
DoD	Department of Defense
LCS	laboratory control sample
MDL	method detection limit
MRL	method reporting limit
MS	matrix spike
MSD	matrix spike duplicate
QC	quality control
RPD	relative percent difference
SAP	Sampling and Analysis Plan
TestAmerica	TestAmerica Laboratories, Inc. in Denver, Colorado
USEPA	United States Environmental Protection Agency
UXB	UXB International, Inc.

1.0 INTRODUCTION

AMEC Environment & Infrastructure, Inc. (AMEC) performed full validation (Level IV) and a data quality review using Automated Data Review (ADR) software for 36 sediment samples, 142 soil samples and 12 water samples (including 15 field duplicates) collected between October 13, 2011, and November 2, 2011, by AMEC at the Former Cape Poge Little Neck Bomb Target Area of Investigation (AOI), the Former Moving Target Machine Gun Range at South Beach AOI, and the Tisbury Great Pond AOI located on Martha's Vineyard, Massachusetts. The samples were submitted to TestAmerica Laboratories, Inc. (TestAmerica) in Denver, Colorado where they were assigned to sample delivery groups J21683-1, J21902-01, J22000-01, and J22439-01. The samples were analyzed for explosives by United States Environmental Protection Agency (USEPA) SW-846 modified Method 8321B and metals by USEPA SW-846 Method 6020A.

2.0 DATA VALIDATION AND DATA QUALITY REVIEW METHODOLOGY

The analytical results for these samples were reviewed in accordance with the requirements in the Appendix E: MC Sampling and Analysis Plan (SAP) of the Remedial Investigation Work Plan, Former Cape Poge Little Neck Bomb Target AOI, the Former Moving Target Machine Gun Range at South Beach AOI, and the Tisbury Great Pond AOI (UXB, International, Inc. 2011), performance criteria listed in Department of Defense (DoD) Quality Systems Manual version 4.2 (October 2010), the analytical methods referenced by the laboratory, and AMEC data validation standard operating procedures.

TestAmerica's Stage Electronic Data Deliverables were reviewed with ADR software to assess the following:

- Preservation and holding time compliance;
- Presence or absence of laboratory or field contamination as demonstrated by method or field blanks;
- Analytical bias as demonstrated by laboratory control sample (LCS) and matrix spike (MS) sample recoveries; and
- Analytical precision as the relative percent difference (RPD) of analyte concentration between laboratory duplicates.

TestAmerica's certified analytical reports (Level IV data packages) were reviewed manually by AMEC chemists to assess the following:

- Cain of custody (COC) compliance;
- Analyte identification and calculation verification;
- Instrument sensitivity;
- Calibration and instrument performance;
- Analytical precision as the RPD or relative standard deviation of analyte concentration between field duplicate and triplicate samples; and
- Insofar as possible, the degree of performance to method requirements and good laboratory practices.

In general, it is important to recognize that no analytical data are guaranteed to be correct, even if all quality control (QC) audits are passed. Strict QC serves to increase confidence in data, but any reported value may potentially contain error.

3.0 CHAIN OF CUSTODY AND SAMPLE RECEIPT CONDITION DOCUMENTATION

All samples were received at TestAmerica in good condition at temperatures less than the USEPA-recommended maximum of 6 degrees Celsius (°C), with the following exceptions:

- One of the two liter ambers submitted for sample MG38 GW007 was received at the laboratory broken. There was sufficient volume to proceed with the requested analysis; therefore, data usability was not adversely affected.
- According to the laboratory case narrative, a sample identification discrepancy was noted between the information listed on the COC and the sample container labels for sample CP31 GW005. The laboratory was able to determine the identity of the sample based on the matching collection time and date, and it accounted for the missing volume for sample CP31 GW005. Data usability was not adversely affected.
- Samples MG35 SB123A and MG35 SB124A were received at laboratory at the elevated temperature of 11.6°C. ADR J qualified the detected results and UJ qualified the non-detected results for these samples because of potentially low analytical bias.

4.0 SPECIFIC DATA VALIDATION FINDINGS FOR EACH ANALYTICAL METHOD

This section contains narrative descriptions of data quality review, data validation findings, and data quality limitations. Definitions of data qualifiers added during ADR and Level IV data quality review and validation and summaries of specific qualifiers added to each affected sample as a result of the data quality review and validation findings are presented in Table 1.

4.1 Metals by USEPA Method 6020A

The metals results may be considered usable with the limitations described in Sections 4.1.1 through 4.1.12.

4.1.1 Holding Times

All samples were analyzed for metals within the SAP-recommended technical holding time of 180 days.

4.1.2 Initial Calibration

ADR did not qualify any metal results based on initial calibrations.

4.1.3 Initial and Continuing Calibration Verification

Initial and continuing calibration verifications (CCALs) meet the SAP-specified 90 to 110 percent recovery criteria for unqualified data, with the following exceptions:

- Nickel recovery was greater than the SAP-specified limits at 114 percent in the CCAL standards analyzed on November 8, 2011, at 22:41 and November 9, 2011, at 00:51. AMEC J qualified the detected nickel results from samples MG35 SB123, MG35 SB124, CP36 SD005, CP37 SD006, CP38 SD007, CP39 SD008, CP40 SD009, CP41 SD010, CP41 SD011, CP42 SD12, and CP43 SD013 because of possible high analytical bias.
- Copper (114 percent) and nickel (117 percent) recoveries were greater than the SAP-specified limits in the CCAL analyzed on November 8, 2011, at 23:38. AMEC J qualified the detected nickel and copper results from samples CP32 SD001, CP33 SD002, CP34 SD003, and CP35 SD004 because of possible high analytical bias.

4.1.4 Inductively Coupled Plasma Interference Check Sample

Interference check sample recoveries associated with inductively coupled plasma analysis were within the SAP-specified limit of ±20 percent of the true value.

4.1.5 Blanks

Target analytes were not detected in the laboratory blanks associated with metal analyses covered in this report, with the following exceptions:

- ADR U qualified the detected antimony results from the following samples due to possible laboratory contamination: MG20 SB090, MG20 SB091, MG21 SB092, MG21 SB093, MG22 SB094, MG22 SB095, MG22 SB096, MG23 SB098, MG23 SB099, MG24 SB100, MG25 SB102, MG25 SB103, MG26 SB104, MG26 SB105, MG27 SB106, MG27 SB107, and MG35 SB123.
- ADR U qualified the detected copper results from samples CP17 SB029 and CP45 SD015 due to possible laboratory contamination.

4.1.6 Laboratory Control Sample Recovery

ADR did not qualify any metal results based on LCS recoveries.

4.1.7 Matrix Spike/Matrix Spike Duplicate Recovery

MS/matrix spike duplicate (MSD) recoveries were within the SAP-specified limits, with the following exceptions:

- The antimony MS/MSD recoveries were less than SAP-specified limits in samples CP01 IS03, CP08 SB009, MG06 SB064, MG16 SB083, MG24 SB101, MG26 SB104, CP03 IS009, CP13 SB020, CP23 SB043, TP05 SD018, CP32 SD001, and TP23 SB132. ADR J qualified the detected and UJ qualified the nondetected antimony results from these samples due to possible low analytical bias.

- The zinc MS/MSD recoveries were greater than SAP-specified limits in sample MG24 SB101. ADR J qualified the detected zinc results from these samples due to possible high analytical bias.

4.1.8 Post Digestion Spike Recovery

Post digestion spike recoveries were within the SAP-specified limits of 75 percent to 125 percent, for detected metal concentrations greater than four times the spike concentration in the native unspiked sample.

4.1.9 Laboratory Duplicates

The RPD between parent and laboratory duplicate samples was high for antimony in samples CP08 SB009 and MG16 SB083. ADR J qualified the detected antimony results from these sample due to the laboratory duplicate imprecision.

The RPD between parent and laboratory duplicate samples was high for copper, lead, and nickel in sample TP05 SD018. ADR J qualified the detected copper, lead, and nickel results from this sample due to the laboratory duplicate imprecision.

4.1.10 Serial Dilution

All serial dilution percent differences were within the SAP-specified criteria for unqualified data of less than 10 percent difference for analytes with concentrations greater than 50 times the instrument detection limit.

4.1.11 Analyte Identification

Select subsections of the raw data were reviewed to confirm that the laboratory's identification of analytes was correct. No discrepancies were discovered.

4.1.12 Analytical Procedures and Data Reporting

The laboratory J qualified detected results with concentrations between the method detection limit (MDL) and method reporting limit (MRL). ADR also J qualified these results.

4.2 Explosives by Method 8321B

The explosives data may be considered usable with the limitations and exceptions assigned by ADR described in sections 4.2.1 through 4.2.9.

4.2.1 Holding Times

All samples were analyzed for explosives within the SAP-specified holding time of 7 days from sampling to extraction and 40 days from extraction to analysis.

4.2.2 Blanks

ADR did not qualify any explosives results based on laboratory contamination.

4.2.3 Laboratory Control Sample Recovery

ADR did not qualify any explosives results based on LCS recoveries.

4.2.4 Matrix Spike/Matrix Spike Duplicate Recovery

MS/MSD recoveries were within the SAP-specified limits, with the following exceptions:

- The 2,4,6-trinitrotoluene MS/MSD recoveries were less than SAP-specified limits in samples CP02 IS006, TP11 SD024, and CP43 SD013.
- ADR J qualified the detected and UJ qualified the nondetected results for this analyte from these samples due to possible analytical bias.

4.2.5 Laboratory Duplicates

ADR did not qualify any explosives results based on laboratory duplicate results.

4.2.6 Analyte Identification

Select subsections of the raw data were reviewed to confirm that the laboratory's identification of analytes was correct. No discrepancies were discovered.

4.2.7 Calculation Verification

Select subsections of the raw data were reviewed to verify that the calculations were done correctly. No discrepancies were discovered.

4.2.8 Analytical Procedures and Data Reporting

The laboratory J qualified detected results with concentrations between the MDL and MRL. ADR also J qualified these results.

5.0 FIELD REPLICATES

During review of field duplicate and triplicate qualifiers applied by ADR, AMEC chemists discovered a problem with the software which omitted appropriate qualifications. Laboratory Data Consultants confirmed that the problem was stemming from an error in the software. Therefore, AMEC chemists reviewed the field replicate precision manually.

Replicate samples were labeled blindly, so the laboratory was not aware which samples were submitted in duplicate. Primary and duplicate results and the RPDs for the field duplicates are summarized in Table 2. Primary, duplicate, and triplicate results and the relative standard deviations for the field triplicates are summarized in Table 3. Precision values not meeting the SAP-specified limits of less than 30 percent RPD or relative standard deviation for concentrations greater than five times their reporting limit or ± the reporting limit for sample concentrations less than the MRL are described in Tables 2 and 3.

Table 4 provides a listing of the frequency of field QC samples per sample matrix. The project SAP states that field duplicates be collected at a frequency of 10% of field samples for groundwater and discrete soil and sediment samples and that a field triplicate be collected for every incremental soil sample collected. The SAP requirements for MS/MSD frequency is one for every 20 samples collected. These field QC sample requirements were met for the sampling events covered in this report.

6.0 SUMMARY AND CONCLUSIONS

AMEC's review indicates the data from this event are generally usable and of good quality. The types of qualifications applied to the dataset include nondetected (U) and estimated results (J/UJ).

Nondetected Qualified Data. Several metal results were U qualified as nondetected because of laboratory blank contamination.

Estimated Data. Portions of the metal and explosives data were qualified as estimated because of laboratory or field duplicate imprecision, elevated sample temperatures, high or low matrix spike recovery, high CCAL recoveries, and results reported between the MDL and MRL.

Data Completeness Assessment. A total of 3,990 data records were evaluated during data validation. Of the total data records, none were rejected; therefore; 100 percent of the data should be considered valid, which meets this project's 90 percent data quality objective.

REFERENCES

DoD, 2010. *Quality Systems Manual*, Version 4.2.

UXB International, Inc., 2011. Appendix E: MC Sampling and Analysis Plan *Remedial Investigation Work Plan*, *Former Cape Poge Little Neck Bomb Target Munitions Response Site*, *the Former Moving Target Machine Gun Range at South Beach Munitions Response Site*, *and the Tisbury Great Pond Munitions Response Site*, W912DY-04-D-0019.

LIMITATIONS

This report was prepared exclusively for UXB International, Inc. by AMEC. The quality of information, conclusions, and estimates contained herein is consistent with the level of effort involved in AMEC services and based on:

- Information available at the time of preparation;
- Data supplied by outside sources; and
- The assumptions, conditions, and qualifications set forth in this report.

This Data Validation/Review Report is intended to be used by Former Cape Poge Little Neck Bomb Target AOI, the Former Moving Target Machine Gun Range at South Beach AOI, and the Tisbury Great Pond AOI only, subject to the terms and conditions of its contract with AMEC. Any other use of, or reliance on, this report by any third party is at that party’s sole risk.

TABLES

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

SDG: **280-21683-1**

Sample ID: **CP01 IS01** ***Collected:*** **10/16/2011 11:50:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.057	J Q	0.0068	MDL	0.19	MRL	mg/kg	J	DL

Sample ID: **CP01 IS02** ***Collected:*** **10/16/2011 1:21:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.083	J Q	0.0066	MDL	0.19	MRL	mg/kg	J	DL

Sample ID: **CP01 IS03** ***Collected:*** **10/16/2011 2:32:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.028	Q J	0.0067	MDL	0.19	MRL	mg/kg	J	DL, LM

Sample ID: **CP04 SB001** ***Collected:*** **10/16/2011 1:20:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.1	J	0.072	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **CP04 SB002** ***Collected:*** **10/16/2011 1:25:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.66	J	0.064	MDL	2.2	MRL	mg/kg	J	DL

Sample ID: **CP05 SB003** ***Collected:*** **10/16/2011 2:01:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.1	J	0.073	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **CP05 SB004** ***Collected:*** **10/16/2011 2:04:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.85	J	0.075	MDL	2.6	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: METALS

Method: 6020A ***Matrix:*** Soil

Sample ID: **CP06 SB005** ***Collected:*** **10/16/2011 1:40:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.2	J	0.075	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **CP06 SB006** ***Collected:*** **10/16/2011 1:43:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.75	J	0.074	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **CP07 SB007** ***Collected:*** **10/16/2011 1:00:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.1	J	0.074	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **CP07 SB008** ***Collected:*** **10/16/2011 1:03:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.78	J	0.075	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **CP08 SB009** ***Collected:*** **10/16/2011 11:55:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.018	Q J	0.014	MDL	0.20	MRL	mg/kg	J	DL, LM, HD
COPPER	1.2	J	0.069	MDL	2.4	MRL	mg/kg	J	DL

Sample ID: **CP08 SB010** ***Collected:*** **10/16/2011 11:59:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.015	J Q	0.013	MDL	0.19	MRL	mg/kg	J	DL
COPPER	1.4	J	0.067	MDL	2.3	MRL	mg/kg	J	DL

Sample ID: **CP08 SB011** ***Collected:*** **10/16/2011 11:59:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.4	J	0.078	MDL	2.7	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: METALS

Method: 6020A **Matrix:** Soil

Sample ID: CP09 SB012 **Collected:** 10/16/2011 11:40:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.98	J	0.071	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: CP09 SB013 **Collected:** 10/16/2011 11:42:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.85	J	0.069	MDL	2.4	MRL	mg/kg	J	DL

Sample ID: CP10 SB014 **Collected:** 10/16/2011 11:20:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.020	J Q	0.014	MDL	0.20	MRL	mg/kg	J	DL
COPPER	1.4	J	0.071	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: CP10 SB015 **Collected:** 10/16/2011 11:24:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.016	J Q	0.015	MDL	0.22	MRL	mg/kg	J	DL
COPPER	1.3	J	0.077	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: CP11 SB16A **Collected:** 10/16/2011 12:41:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	2.1	J	0.080	MDL	2.8	MRL	mg/kg	J	DL

Sample ID: CP11 SB16B **Collected:** 10/16/2011 12:43:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.072	J Q	0.014	MDL	0.20	MRL	mg/kg	J	DL
COPPER	1.3	J	0.072	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: CP12 SB017 **Collected:** 10/16/2011 3:22:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.2	J	0.067	MDL	2.3	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

Sample ID: **CP12 SB018** ***Collected:*** **10/16/2011 3:25:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.7	J	0.067	MDL	2.4	MRL	mg/kg	J	DL

Sample ID: **MG02 SB054** ***Collected:*** **10/15/2011 2:04:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	2.5	J	0.073	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **MG03 SB056** ***Collected:*** **10/15/2011 1:51:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.015	J Q	0.013	MDL	0.19	MRL	mg/kg	J	DL

Sample ID: **MG04 SB058** ***Collected:*** **10/15/2011 1:39:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.017	J Q	0.013	MDL	0.19	MRL	mg/kg	J	DL
COPPER	1.6	J	0.068	MDL	2.4	MRL	mg/kg	J	DL

Sample ID: **MG04 SB059** ***Collected:*** **10/15/2011 1:41:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.013	J Q	0.012	MDL	0.18	MRL	mg/kg	J	DL

Sample ID: **MG05 SB060** ***Collected:*** **10/15/2011 1:28:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.022	J Q	0.015	MDL	0.21	MRL	mg/kg	J	DL

Sample ID: **MG05 SB061** ***Collected:*** **10/15/2011 1:30:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.016	J Q	0.014	MDL	0.20	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280 — **Laboratory: 'TAL DEN'**

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1' — **eQAPP Name: Martha's Vineyard SEDD**

Method Category: METALS

Method: 6020A **Matrix:** Soil

Sample ID: MG06 SB062 **Collected:** 10/15/2011 1:11:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.015	J Q	0.013	MDL	0.19	MRL	mg/kg	J	DL
COPPER	2.1	J	0.068	MDL	2.4	MRL	mg/kg	J	DL

Sample ID: MG06 SB063 **Collected:** 10/15/2011 1:16:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.015	J Q	0.015	MDL	0.21	MRL	mg/kg	J	DL

Sample ID: MG06 SB064 **Collected:** 10/15/2011 1:16:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.024	Q J	0.014	MDL	0.20	MRL	mg/kg	J	DL, LM

Sample ID: MG07 SB065 **Collected:** 10/15/2011 4:28:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.016	J Q	0.014	MDL	0.20	MRL	mg/kg	J	DL
COPPER	2.2	J	0.071	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: MG07 SB066 **Collected:** 10/15/2011 4:29:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.013	J Q	0.013	MDL	0.18	MRL	mg/kg	J	DL

Sample ID: MG08 SB067 **Collected:** 10/15/2011 4:14:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.019	J Q	0.014	MDL	0.20	MRL	mg/kg	J	DL

Sample ID: MG08 SB068 **Collected:** 10/15/2011 4:17:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.014	J Q	0.013	MDL	0.18	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

Sample ID: **MG09 SB069** ***Collected:*** **10/15/2011 4:01:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.018	J Q	0.015	MDL	0.21	MRL	mg/kg	J	DL

Sample ID: **MG11 SB071** ***Collected:*** **10/15/2011 2:55:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.015	J Q	0.014	MDL	0.20	MRL	mg/kg	J	DL

Sample ID: **MG11 SB072** ***Collected:*** **10/15/2011 2:57:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	2.0	J	0.072	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **MG12 SB073** ***Collected:*** **10/15/2011 2:40:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.017	J Q	0.013	MDL	0.18	MRL	mg/kg	J	DL
COPPER	1.8	J	0.065	MDL	2.3	MRL	mg/kg	J	DL

Sample ID: **MG12 SB074** ***Collected:*** **10/15/2011 2:43:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	2.1	J	0.074	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **MG12 SB075** ***Collected:*** **10/15/2011 2:40:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.017	J Q	0.014	MDL	0.20	MRL	mg/kg	J	DL
COPPER	1.7	J	0.070	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **MG13 SB077** ***Collected:*** **10/15/2011 3:24:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.016	J Q	0.015	MDL	0.21	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280 | **Laboratory: 'TAL DEN'**

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1' | **eQAPP Name: Martha's Vineyard SEDD**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

Sample ID: **MG14 SB079** ***Collected:*** **10/15/2011 3:12:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.015	J Q	0.015	MDL	0.22	MRL	mg/kg	J	DL
COPPER	2.2	J	0.079	MDL	2.8	MRL	mg/kg	J	DL

Sample ID: **MG14 SB080** ***Collected:*** **10/15/2011 3:15:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	2.3	J	0.077	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **MG15 SB081** ***Collected:*** **10/15/2011 2:19:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.013	J Q	0.013	MDL	0.18	MRL	mg/kg	J	DL

Sample ID: **MG15 SB082** ***Collected:*** **10/15/2011 2:22:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.015	J Q	0.015	MDL	0.21	MRL	mg/kg	J	DL
COPPER	2.2	J	0.075	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **MG16 SB083** ***Collected:*** **10/15/2011 3:37:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.025	Q J	0.014	MDL	0.20	MRL	mg/kg	J	DL, LM, HD
COPPER	2.1	J	0.072	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **MG16 SB084** ***Collected:*** **10/15/2011 3:40:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.2	J	0.070	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **MG17 SB085** ***Collected:*** **10/15/2011 4:41:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.013	J Q	0.013	MDL	0.18	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: METALS

Method: 6020A **Matrix:** Soil

Sample ID: MG17 SB086 **Collected:** 10/15/2011 4:43:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.9	J	0.071	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: MG17 SB087 **Collected:** 10/15/2011 4:43:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	2.2	J	0.070	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: MG18 SB088 **Collected:** 10/15/2011 4:56:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.015	J Q	0.015	MDL	0.21	MRL	mg/kg	J	DL
COPPER	2.4	J	0.075	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: MG18 SB089 **Collected:** 10/15/2011 4:58:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.4	J	0.076	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: MG19 IS016 **Collected:** 10/13/2011 1:15:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.040	J Q	0.0067	MDL	0.19	MRL	mg/kg	J	DL
COPPER	3.7		0.034	MDL	2.4	MRL	mg/kg	J	Level IV DV
ZINC	13		0.15	MDL	2.4	MRL	mg/kg	J	Level IV DV

Sample ID: MG19 IS017 **Collected:** 10/13/2011 4:53:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.034	J Q	0.0066	MDL	0.19	MRL	mg/kg	J	DL
COPPER	3.4		0.034	MDL	2.4	MRL	mg/kg	J	Level IV DV
ZINC	12		0.15	MDL	2.4	MRL	mg/kg	J	Level IV DV

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280 — **Laboratory: 'TAL DEN'**

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1' — **eQAPP Name: Martha's Vineyard SEDD**

Method Category: **METALS**

Method: **6020A** — ***Matrix:*** **Soil**

Sample ID: **MG19 IS018** — ***Collected:*** **10/14/2011 9:45:00** — ***Analysis Type:*** **Initial** — ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.043	J Q	0.0068	MDL	0.20	MRL	mg/kg	J	DL
COPPER	3.9		0.035	MDL	2.4	MRL	mg/kg	J	Level IV DV
ZINC	15		0.15	MDL	2.4	MRL	mg/kg	J	Level IV DV

Sample ID: **MG20 SB090** — ***Collected:*** **10/13/2011 3:55:00** — ***Analysis Type:*** **Initial** — ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.025	J Q	0.016	MDL	0.23	MRL	mg/kg	U	MB
COPPER	2.3	J	0.083	MDL	2.9	MRL	mg/kg	J	DL

Sample ID: **MG20 SB091** — ***Collected:*** **10/13/2011 4:25:00** — ***Analysis Type:*** **Initial** — ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.023	J Q	0.014	MDL	0.21	MRL	mg/kg	U	MB
COPPER	2.2	J	0.073	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **MG21 SB092** — ***Collected:*** **10/14/2011 9:05:00** — ***Analysis Type:*** **Initial** — ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.023	J Q	0.015	MDL	0.21	MRL	mg/kg	U	MB
COPPER	2.4	J	0.074	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **MG21 SB093** — ***Collected:*** **10/14/2011 9:11:00** — ***Analysis Type:*** **Initial** — ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.022	J Q	0.015	MDL	0.21	MRL	mg/kg	U	MB
COPPER	2.5	J	0.074	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **MG22 SB094** — ***Collected:*** **10/13/2011 4:46:00** — ***Analysis Type:*** **Initial** — ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.022	J Q	0.014	MDL	0.20	MRL	mg/kg	U	MB
COPPER	2.1	J	0.072	MDL	2.5	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

Sample ID: **MG22 SB095** ***Collected:*** **10/13/2011 4:57:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.020	J Q	0.016	MDL	0.24	MRL	mg/kg	U	MB
COPPER	2.2	J	0.084	MDL	2.9	MRL	mg/kg	J	DL

Sample ID: **MG22 SB096** ***Collected:*** **10/13/2011 4:46:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.023	J Q	0.015	MDL	0.21	MRL	mg/kg	U	MB
COPPER	2.1	J	0.076	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **MG23 SB098** ***Collected:*** **10/14/2011 8:45:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.023	J Q	0.014	MDL	0.20	MRL	mg/kg	U	MB
COPPER	2.3	J	0.072	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **MG23 SB099** ***Collected:*** **10/14/2011 8:58:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.020	J Q	0.015	MDL	0.21	MRL	mg/kg	U	MB
COPPER	1.9	J	0.076	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **MG24 SB100** ***Collected:*** **10/14/2011 9:27:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.026	J Q	0.013	MDL	0.19	MRL	mg/kg	U	MB

Sample ID: **MG24 SB101** ***Collected:*** **10/14/2011 9:33:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.018	Q J	0.014	MDL	0.20	MRL	mg/kg	J	DL, LM
COPPER	2.2	J	0.070	MDL	2.5	MRL	mg/kg	J	DL
ZINC	9.2	J	0.31	MDL	2.5	MRL	mg/kg	J	HM

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

Sample ID: **MG25 SB102** ***Collected:*** **10/14/2011 10:29:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.031	J Q	0.014	MDL	0.20	MRL	mg/kg	U	MB

Sample ID: **MG25 SB103** ***Collected:*** **10/14/2011 10:33:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.023	J Q	0.014	MDL	0.20	MRL	mg/kg	U	MB
COPPER	2.0	J	0.072	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **MG26 SB104** ***Collected:*** **10/14/2011 9:46:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.027	Q J	0.015	MDL	0.22	MRL	mg/kg	U	LM, MB
COPPER	2.3	J	0.077	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **MG26 SB105** ***Collected:*** **10/14/2011 9:52:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.024	J Q	0.015	MDL	0.22	MRL	mg/kg	U	MB
COPPER	1.4	J	0.077	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **MG27 SB106** ***Collected:*** **10/14/2011 10:09:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.025	J Q	0.015	MDL	0.22	MRL	mg/kg	U	MB
COPPER	1.5	J	0.077	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **MG27 SB107** ***Collected:*** **10/14/2011 10:17:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.023	J Q	0.016	MDL	0.23	MRL	mg/kg	U	MB
COPPER	1.2	J	0.081	MDL	2.9	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280 | **Laboratory: 'TAL DEN'**

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1' | **eQAPP Name: Martha's Vineyard SEDD**

Method Category: METALS

Method: 6020A   ***Matrix:*** Soil

Sample ID: **MG29 SB109**   ***Collected:*** **10/15/2011 10:00:00**   ***Analysis Type:*** **Initial**   ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.018	J Q	0.014	MDL	0.20	MRL	mg/kg	J	DL

Sample ID: **MG29 SB110**   ***Collected:*** **10/15/2011 10:05:00**   ***Analysis Type:*** **Initial**   ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.014	J Q	0.014	MDL	0.20	MRL	mg/kg	J	DL

Sample ID: **MG30 SB111**   ***Collected:*** **10/15/2011 9:45:00**   ***Analysis Type:*** **Initial**   ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.015	J Q	0.014	MDL	0.20	MRL	mg/kg	J	DL

Sample ID: **MG30 SB112**   ***Collected:*** **10/15/2011 9:51:00**   ***Analysis Type:*** **Initial**   ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.014	J Q	0.014	MDL	0.21	MRL	mg/kg	J	DL

Sample ID: **MG32 SB115**   ***Collected:*** **10/14/2011 2:10:00**   ***Analysis Type:*** **Initial**   ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.8	J	0.079	MDL	2.8	MRL	mg/kg	J	DL

Sample ID: **MG32 SB116**   ***Collected:*** **10/14/2011 2:20:00**   ***Analysis Type:*** **Initial**   ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.7	J	0.075	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **MG33 SB117**   ***Collected:*** **10/15/2011 8:41:00**   ***Analysis Type:*** **Initial**   ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.015	J Q	0.015	MDL	0.22	MRL	mg/kg	J	DL
NICKEL	3.5		0.028	MDL	0.38	MRL	mg/kg	J	Level IV DV

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280 **Laboratory: 'TAL DEN'**

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1' **eQAPP Name: Martha's Vineyard SEDD**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

Sample ID: **MG33 SB118** ***Collected:*** **10/15/2011 8:53:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	2.1	J	0.070	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **MG33 SB119** ***Collected:*** **10/15/2011 8:41:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.014	J Q	0.014	MDL	0.20	MRL	mg/kg	J	DL
NICKEL	4.8		0.026	MDL	0.36	MRL	mg/kg	J	Level IV DV

Sample ID: **MG34 SB122** ***Collected:*** **10/15/2011 9:15:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.015	J Q	0.013	MDL	0.19	MRL	mg/kg	J	DL

Sample ID: **MG35 SB123** ***Collected:*** **10/14/2011 10:29:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.026	J Q	0.015	MDL	0.22	MRL	mg/kg	U	MB
NICKEL	3.4		0.027	MDL	0.38	MRL	mg/kg	J	Level IV DV

Sample ID: **MG35 SB124** ***Collected:*** **10/14/2011 11:30:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.014	J Q	0.013	MDL	0.19	MRL	mg/kg	J	DL
NICKEL	3.8		0.024	MDL	0.33	MRL	mg/kg	J	Level IV DV

Sample ID: **MG36 SB126** ***Collected:*** **10/14/2011 11:46:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.014	J Q	0.014	MDL	0.20	MRL	mg/kg	J	DL

Sample ID: **MG36 SB127** ***Collected:*** **10/14/2011 11:56:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	2.2	J	0.081	MDL	2.8	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280 **Laboratory: 'TAL DEN'**

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1' **eQAPP Name: Martha's Vineyard SEDD**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

SDG: **280-21902-1**

Sample ID: **CP02 IS004** ***Collected:*** **10/17/2011 1:37:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.043	J Q	0.0067	MDL	0.19	MRL	mg/kg	J	DL

Sample ID: **CP02 IS005** ***Collected:*** **10/17/2011 2:36:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.049	J Q	0.0068	MDL	0.20	MRL	mg/kg	J	DL

Sample ID: **CP02 IS006** ***Collected:*** **10/17/2011 3:17:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.053	J Q	0.0068	MDL	0.19	MRL	mg/kg	J	DL

Sample ID: **CP03 IS007** ***Collected:*** **10/18/2011 12:45:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.016	J Q	0.0068	MDL	0.20	MRL	mg/kg	J	DL
COPPER	2.0	J	0.035	MDL	2.4	MRL	mg/kg	J	DL

Sample ID: **CP03 IS008** ***Collected:*** **10/18/2011 1:45:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.014	J Q	0.0069	MDL	0.20	MRL	mg/kg	J	DL
COPPER	1.8	J	0.035	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **CP03 IS009** ***Collected:*** **10/18/2011 2:28:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.017	Q J	0.0066	MDL	0.19	MRL	mg/kg	J	DL, LM
COPPER	2.1	J	0.033	MDL	2.3	MRL	mg/kg	J	DL

Sample ID: **CP13 SB019** ***Collected:*** **10/17/2011 12:46:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.2	J	0.082	MDL	2.9	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: **-**

Table 1
Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280
Laboratory: 'TAL DEN'
EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'
eQAPP Name: Martha's Vineyard SEDD

Method Category: METALS
Method: 6020A ***Matrix:*** Soil

Sample ID: **CP13 SB020** ***Collected:*** 10/17/2011 12:50:00 ***Analysis Type:*** Initial ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.21	U Q J	0.015	MDL	0.21	MRL	mg/kg	UJ	LM
COPPER	1.1	J	0.075	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **CP13 SB021** ***Collected:*** 10/17/2011 12:46:00 ***Analysis Type:*** Initial ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.90	J	0.082	MDL	2.9	MRL	mg/kg	J	DL

Sample ID: **CP14 SB023** ***Collected:*** 10/17/2011 1:06:00 ***Analysis Type:*** Initial ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.018	J Q	0.015	MDL	0.22	MRL	mg/kg	J	DL
COPPER	1.3	J	0.077	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **CP14 SB024** ***Collected:*** 10/17/2011 1:10:00 ***Analysis Type:*** Initial ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.1	J	0.076	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **CP15 SB025** ***Collected:*** 10/17/2011 1:55:00 ***Analysis Type:*** Initial ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.1	J	0.074	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **CP15 SB026** ***Collected:*** 10/17/2011 1:57:00 ***Analysis Type:*** Initial ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.95	J	0.074	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **CP16 SB027** ***Collected:*** 10/17/2011 2:20:00 ***Analysis Type:*** Initial ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.1	J	0.083	MDL	2.9	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

Sample ID: **CP16 SB028** ***Collected:*** **10/17/2011 2:40:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.6	J	0.080	MDL	2.8	MRL	mg/kg	J	DL

Sample ID: **CP17 SB029** ***Collected:*** **10/17/2011 2:53:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.68	J	0.071	MDL	2.5	MRL	mg/kg	U	MB

Sample ID: **CP17 SB030** ***Collected:*** **10/17/2011 3:03:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.0	J	0.070	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **CP18 SB031** ***Collected:*** **10/17/2011 1:30:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.2	J	0.077	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **CP18 SB032** ***Collected:*** **10/17/2011 1:36:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.1	J	0.071	MDL	2.5	MRL	mg/kg	J	DL
NICKEL	2.2		0.025	MDL	0.35	MRL	mg/kg	J	Level IV DV

Sample ID: **CP18 SB033** ***Collected:*** **10/17/2011 1:36:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.1	J	0.075	MDL	2.6	MRL	mg/kg	J	DL
NICKEL	3.2		0.027	MDL	0.37	MRL	mg/kg	J	Level IV DV

Sample ID: **CP19 SB034** ***Collected:*** **10/17/2011 2:42:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.1	J	0.086	MDL	3.0	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280 — **Laboratory: 'TAL DEN'**

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1' — **eQAPP Name: Martha's Vineyard SEDD**

Method Category: METALS

Method: 6020A ***Matrix:*** Soil

Sample ID: **CP19 SB035** ***Collected:*** **10/17/2011 2:44:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.5	J	0.073	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **CP20 SB036** ***Collected:*** **10/18/2011 2:15:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.1	J	0.070	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **CP20 SB037** ***Collected:*** **10/18/2011 1:30:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.0	J	0.078	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **CP21 SB038** ***Collected:*** **10/18/2011 12:20:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.1	J	0.082	MDL	2.9	MRL	mg/kg	J	DL

Sample ID: **CP21 SB039** ***Collected:*** **10/18/2011 12:28:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.3	J	0.079	MDL	2.8	MRL	mg/kg	J	DL

Sample ID: **CP22 SB040** ***Collected:*** **10/18/2011 1:40:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.93	J	0.080	MDL	2.8	MRL	mg/kg	J	DL

Sample ID: **CP22 SB041** ***Collected:*** **10/18/2011 1:50:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.82	J	0.071	MDL	2.5	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

Sample ID: **CP23 SB042** ***Collected:*** **10/18/2011 2:40:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.2	J	0.080	MDL	2.8	MRL	mg/kg	J	DL

Sample ID: **CP23 SB043** ***Collected:*** **10/18/2011 2:50:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.20	U Q J	0.014	MDL	0.20	MRL	mg/kg	UJ	LM
COPPER	1.3	J	0.071	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **CP23 SB044** ***Collected:*** **10/18/2011 2:40:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.1	J	0.074	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **CP24 SB046** ***Collected:*** **10/18/2011 1:00:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.79	J	0.070	MDL	2.4	MRL	mg/kg	J	DL

Sample ID: **CP24 SB047** ***Collected:*** **10/18/2011 1:15:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.2	J	0.075	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **CP25 SB048** ***Collected:*** **10/18/2011 1:25:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.68	J	0.068	MDL	2.4	MRL	mg/kg	J	DL

Sample ID: **CP25 SB049** ***Collected:*** **10/18/2011 1:35:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.69	J	0.070	MDL	2.5	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280 — **Laboratory: 'TAL DEN'**

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1' — **eQAPP Name: Martha's Vineyard SEDD**

Method Category: METALS

Method: 6020A ***Matrix:*** Soil

Sample ID: **CP26 SB050** ***Collected:*** **10/18/2011 12:35:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.2	J	0.078	MDL	2.8	MRL	mg/kg	J	DL

Sample ID: **CP26 SB051** ***Collected:*** **10/18/2011 12:40:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.6	J	0.070	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **CP27 SB052** ***Collected:*** **10/18/2011 1:55:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.86	J	0.072	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: **CP27 SB053** ***Collected:*** **10/18/2011 2:05:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.2	J	0.076	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **TP01 SB128** ***Collected:*** **10/19/2011 1:30:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.8	J	0.076	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **TP01 SB129** ***Collected:*** **10/19/2011 1:32:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.018	J Q	0.016	MDL	0.22	MRL	mg/kg	J	DL
COPPER	1.8	J	0.080	MDL	2.8	MRL	mg/kg	J	DL

Sample ID: **TP01 SB130** ***Collected:*** **10/19/2011 1:35:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.4	J	0.070	MDL	2.5	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280 | **Laboratory: 'TAL DEN'**

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1' | **eQAPP Name: Martha's Vineyard SEDD**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

Sample ID: **TP01 SB131** ***Collected:*** **10/19/2011 1:45:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.3	J	0.068	MDL	2.4	MRL	mg/kg	J	DL

Sample ID: **TP05 SD018** ***Collected:*** **10/19/2011 11:10:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.027	Q J	0.019	MDL	0.28	MRL	mg/kg	J	DL, LM
COPPER	5.2	J	0.098	MDL	3.5	MRL	mg/kg	J	HD
LEAD	11	J	0.025	MDL	0.14	MRL	mg/kg	J	HD
NICKEL	7.4	J	0.035	MDL	0.48	MRL	mg/kg	J	HD

Sample ID: **TP06 SD019** ***Collected:*** **10/19/2011 11:15:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.019	J Q	0.018	MDL	0.26	MRL	mg/kg	J	DL

Sample ID: **TP07 SD020** ***Collected:*** **10/19/2011 11:20:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	2.2	J	0.090	MDL	3.2	MRL	mg/kg	J	DL

Sample ID: **TP08 SD021** ***Collected:*** **10/19/2011 11:30:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.034	J Q	0.030	MDL	0.43	MRL	mg/kg	J	DL

Sample ID: **TP09 SD022** ***Collected:*** **10/19/2011 11:25:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.037	J Q	0.033	MDL	0.47	MRL	mg/kg	J	DL

Sample ID: **TP10 SD023** ***Collected:*** **10/19/2011 11:35:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.033	J Q	0.033	MDL	0.47	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280 | **Laboratory: 'TAL DEN'**

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1' | **eQAPP Name: Martha's Vineyard SEDD**

Method Category: METALS

Method: 6020A ***Matrix:*** Soil

Sample ID: **TP14 SD027** ***Collected:*** **10/19/2011 9:55:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.5	J	0.086	MDL	3.0	MRL	mg/kg	J	DL

Sample ID: **TP14 SD028** ***Collected:*** **10/19/2011 9:55:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.2	J	0.083	MDL	2.9	MRL	mg/kg	J	DL

Sample ID: **TP15 SD029** ***Collected:*** **10/19/2011 10:30:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.0	J	0.095	MDL	3.3	MRL	mg/kg	J	DL

Sample ID: **TP16 SD030** ***Collected:*** **10/19/2011 10:20:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.4	J	0.076	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **TP17 SD031** ***Collected:*** **10/19/2011 9:48:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	2.3	J	0.092	MDL	3.2	MRL	mg/kg	J	DL

Sample ID: **TP18 SD032** ***Collected:*** **10/19/2011 10:45:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	3.3	J	0.099	MDL	3.5	MRL	mg/kg	J	DL

Sample ID: **TP20 SD034** ***Collected:*** **10/19/2011 11:05:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.023	J Q	0.017	MDL	0.24	MRL	mg/kg	J	DL
COPPER	0.51	J	0.086	MDL	3.0	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280 | **Laboratory: 'TAL DEN'**

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1' | **eQAPP Name: Martha's Vineyard SEDD**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

Sample ID: **TP21 SD035** ***Collected:*** **10/19/2011 10:55:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.037	J Q	0.015	MDL	0.22	MRL	mg/kg	J	DL
COPPER	0.58	J	0.079	MDL	2.8	MRL	mg/kg	J	DL

Sample ID: **TP21 SD036** ***Collected:*** **10/19/2011 10:55:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.033	J Q	0.016	MDL	0.23	MRL	mg/kg	J	DL
COPPER	0.63	J	0.082	MDL	2.9	MRL	mg/kg	J	DL

Method Category: **SVOA**

Method: **8321B_Exp** ***Matrix:*** **Soil**

SDG: **280-21902-1**

Sample ID: **CP02 IS006** ***Collected:*** **10/17/2011 3:17:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,6-TRINITROTOLUENE	0.097	U J	0.0049	MDL	0.097	MRL	mg/kg	UJ	LM

Sample ID: **TP11 SD024** ***Collected:*** **10/19/2011 11:40:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,6-TRINITROTOLUENE	0.099	U J	0.0050	MDL	0.099	MRL	mg/kg	UJ	LM

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

SDG: **280-22000-1**

Sample ID: **CP32 SD001** ***Collected:*** **10/22/2011 7:45:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.020	Q J	0.020	MDL	0.28	MRL	mg/kg	J	DL, LM
COPPER	4.4		0.099	MDL	3.5	MRL	mg/kg	J	Level IV DV
NICKEL	4.8		0.035	MDL	0.49	MRL	mg/kg	J	Level IV DV

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: METALS

Method: 6020A ***Matrix:*** Soil

Sample ID: **CP33 SD002** ***Collected:*** **10/22/2011 8:10:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.017	J Q	0.016	MDL	0.23	MRL	mg/kg	J	DL
COPPER	0.49	J	0.082	MDL	2.9	MRL	mg/kg	J	DL, Level IV DV
NICKEL	0.98		0.029	MDL	0.40	MRL	mg/kg	J	Level IV DV
ZINC	2.8	J	0.36	MDL	2.9	MRL	mg/kg	J	DL

Sample ID: **CP34 SD003** ***Collected:*** **10/22/2011 7:55:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.66	J	0.091	MDL	3.2	MRL	mg/kg	J	DL, Level IV DV
NICKEL	0.63		0.032	MDL	0.45	MRL	mg/kg	J	Level IV DV
ZINC	2.5	J	0.40	MDL	3.2	MRL	mg/kg	J	DL

Sample ID: **CP35 SD004** ***Collected:*** **10/22/2011 8:30:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.47	J	0.073	MDL	2.6	MRL	mg/kg	J	DL, Level IV DV
NICKEL	0.67		0.026	MDL	0.36	MRL	mg/kg	J	Level IV DV
ZINC	2.4	J	0.32	MDL	2.6	MRL	mg/kg	J	DL

Sample ID: **CP36 SD005** ***Collected:*** **10/22/2011 9:00:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.51	J	0.091	MDL	3.2	MRL	mg/kg	J	DL
NICKEL	0.83		0.032	MDL	0.45	MRL	mg/kg	J	Level IV DV
ZINC	2.6	J	0.40	MDL	3.2	MRL	mg/kg	J	DL

Sample ID: **CP37 SD006** ***Collected:*** **10/22/2011 9:30:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.40	J	0.077	MDL	2.7	MRL	mg/kg	J	DL
NICKEL	0.41		0.027	MDL	0.38	MRL	mg/kg	J	Level IV DV

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: METALS

Method: 6020A **Matrix:** Soil

Sample ID: CP38 SD007 **Collected:** 10/22/2011 9:40:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.53	J	0.090	MDL	3.2	MRL	mg/kg	J	DL
NICKEL	0.61		0.032	MDL	0.44	MRL	mg/kg	J	Level IV DV
ZINC	2.6	J	0.40	MDL	3.2	MRL	mg/kg	J	DL

Sample ID: CP39 SD008 **Collected:** 10/22/2011 9:50:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.43	J	0.076	MDL	2.7	MRL	mg/kg	J	DL
NICKEL	0.80		0.027	MDL	0.37	MRL	mg/kg	J	Level IV DV
ZINC	2.4	J	0.34	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: CP40 SD009 **Collected:** 10/22/2011 10:20:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.39	J	0.083	MDL	2.9	MRL	mg/kg	J	DL
NICKEL	0.69		0.030	MDL	0.41	MRL	mg/kg	J	Level IV DV
ZINC	2.1	J	0.37	MDL	2.9	MRL	mg/kg	J	DL

Sample ID: CP41 SD010 **Collected:** 10/22/2011 10:10:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.47	J	0.088	MDL	3.1	MRL	mg/kg	J	DL
LEAD	0.94		0.023	MDL	0.12	MRL	mg/kg	J	Level IV DV
NICKEL	0.78		0.031	MDL	0.43	MRL	mg/kg	J	Level IV DV
ZINC	2.6	J	0.39	MDL	3.1	MRL	mg/kg	J	DL

Sample ID: CP41 SD011 **Collected:** 10/22/2011 10:10:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.47	J	0.081	MDL	2.8	MRL	mg/kg	J	DL
LEAD	1.5		0.021	MDL	0.11	MRL	mg/kg	J	Level IV DV
NICKEL	0.86		0.029	MDL	0.40	MRL	mg/kg	J	Level IV DV
ZINC	2.7	J	0.36	MDL	2.8	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280 | **Laboratory: 'TAL DEN'**

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1' | **eQAPP Name: Martha's Vineyard SEDD**

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

Sample ID: **CP42 SD012** ***Collected:*** **10/22/2011 10:30:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.48	J	0.078	MDL	2.7	MRL	mg/kg	J	DL
NICKEL	1.1		0.028	MDL	0.38	MRL	mg/kg	J	Level IV DV
ZINC	2.6	J	0.35	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: **CP43 SD013** ***Collected:*** **10/22/2011 10:40:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.34	J	0.080	MDL	2.8	MRL	mg/kg	J	DL
NICKEL	0.55		0.029	MDL	0.39	MRL	mg/kg	J	Level IV DV
ZINC	2.4	J	0.36	MDL	2.8	MRL	mg/kg	J	DL

Sample ID: **MG35 SB123A** ***Collected:*** **10/20/2011 11:15:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.024	J Q	0.015	MDL	0.22	MRL	mg/kg	J	DL, NP
COPPER	5.0		0.078	MDL	2.7	MRL	mg/kg	J	NP
LEAD	9.6		0.020	MDL	0.11	MRL	mg/kg	J	NP
NICKEL	3.2		0.028	MDL	0.38	MRL	mg/kg	J	NP
ZINC	14		0.35	MDL	2.7	MRL	mg/kg	J	NP

Sample ID: **MG35 SB124A** ***Collected:*** **10/20/2011 11:25:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.19	U Q	0.013	MDL	0.19	MRL	mg/kg	UJ	NP
COPPER	3.1		0.068	MDL	2.4	MRL	mg/kg	J	NP
LEAD	3.9		0.017	MDL	0.096	MRL	mg/kg	J	NP
NICKEL	3.8		0.024	MDL	0.34	MRL	mg/kg	J	NP
ZINC	9.5		0.30	MDL	2.4	MRL	mg/kg	J	NP

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: SVOA

Method: 8321B_Exp ***Matrix:*** Soil

SDG: **280-22000-1**

Sample ID: **CP43 SD013** ***Collected:*** **10/22/2011 10:40:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,6-TRINITROTOLUENE	0.099	U J	0.0050	MDL	0.099	MRL	mg/kg	UJ	LM

Sample ID: **MG35 SB123A** ***Collected:*** **10/20/2011 11:15:00** ***Analysis Type:*** **Initial-** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.10	U	0.013	MDL	0.10	MRL	mg/kg	UJ	NP
1,3-DINITROBENZENE	0.10	U	0.0071	MDL	0.10	MRL	mg/kg	UJ	NP
2,4,6-TRINITROTOLUENE	0.10	U	0.0050	MDL	0.10	MRL	mg/kg	UJ	NP
2,4-DINITROTOLUENE	0.10	U	0.0082	MDL	0.10	MRL	mg/kg	UJ	NP
2,6-DINITROTOLUENE	0.10	U	0.020	MDL	0.10	MRL	mg/kg	UJ	NP
2-AMINO-4,6-DINITROTOLUENE	0.10	U	0.012	MDL	0.10	MRL	mg/kg	UJ	NP
2-NITROTOLUENE	0.10	U	0.0057	MDL	0.10	MRL	mg/kg	UJ	NP
3-NITROTOLUENE	0.10	U	0.013	MDL	0.10	MRL	mg/kg	UJ	NP
4-AMINO-2,6-DINITROTOLUENE	0.10	U	0.0051	MDL	0.10	MRL	mg/kg	UJ	NP
4-NITROTOLUENE	0.10	U	0.011	MDL	0.10	MRL	mg/kg	UJ	NP
HMX	0.10	U	0.0058	MDL	0.10	MRL	mg/kg	UJ	NP
NITROBENZENE	0.10	U	0.011	MDL	0.10	MRL	mg/kg	UJ	NP
NITROGLYCERINE	0.10	U	0.011	MDL	0.10	MRL	mg/kg	UJ	NP
PETN	0.10	U	0.0052	MDL	0.10	MRL	mg/kg	UJ	NP
RDX	0.10	U	0.0043	MDL	0.10	MRL	mg/kg	UJ	NP
Tetryl	0.10	U	0.0076	MDL	0.10	MRL	mg/kg	UJ	NP

Sample ID: **MG35 SB124A** ***Collected:*** **10/20/2011 11:25:00** ***Analysis Type:*** **Initial-** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.098	U	0.012	MDL	0.098	MRL	mg/kg	UJ	NP
1,3-DINITROBENZENE	0.098	U	0.0070	MDL	0.098	MRL	mg/kg	UJ	NP
2,4,6-TRINITROTOLUENE	0.098	U	0.0050	MDL	0.098	MRL	mg/kg	UJ	NP
2,4-DINITROTOLUENE	0.098	U	0.0081	MDL	0.098	MRL	mg/kg	UJ	NP
2,6-DINITROTOLUENE	0.098	U	0.020	MDL	0.098	MRL	mg/kg	UJ	NP
2-AMINO-4,6-DINITROTOLUENE	0.098	U	0.012	MDL	0.098	MRL	mg/kg	UJ	NP
2-NITROTOLUENE	0.098	U	0.0056	MDL	0.098	MRL	mg/kg	UJ	NP
3-NITROTOLUENE	0.098	U	0.013	MDL	0.098	MRL	mg/kg	UJ	NP

* denotes a non-reportable result

Project Name and Number: -

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280
EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

Laboratory: 'TAL DEN'
eQAPP Name: Martha's Vineyard SEDD

Method Category: SVOA
Method: 8321B_Exp **Matrix:** Soil

Sample ID: MG35 SB124A **Collected:** 10/20/2011 11:25:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-AMINO-2,6-DINITROTOLUENE	0.098	U	0.0050	MDL	0.098	MRL	mg/kg	UJ	NP
4-NITROTOLUENE	0.098	U	0.011	MDL	0.098	MRL	mg/kg	UJ	NP
HMX	0.098	U	0.0057	MDL	0.098	MRL	mg/kg	UJ	NP
NITROBENZENE	0.098	U	0.011	MDL	0.098	MRL	mg/kg	UJ	NP
NITROGLYCERINE	0.098	U	0.010	MDL	0.098	MRL	mg/kg	UJ	NP
PETN	0.098	U	0.0051	MDL	0.098	MRL	mg/kg	UJ	NP
RDX	0.098	U	0.0043	MDL	0.098	MRL	mg/kg	UJ	NP
Tetryl	0.098	U	0.0075	MDL	0.098	MRL	mg/kg	UJ	NP

Method Category: METALS
Method: 6020A **Matrix:** Soil

SDG: **280-22438-1**

Sample ID: CP45 SD015 **Collected:** 11/1/2011 3:50:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.38	J	0.071	MDL	2.5	MRL	mg/kg	U	MB
ZINC	1.7	J	0.31	MDL	2.5	MRL	mg/kg	J	DL

Sample ID: CP45 SD016 **Collected:** 11/1/2011 3:50:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.67	J	0.076	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: CP46 SD017 **Collected:** 11/1/2011 3:40:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.2	J	0.076	MDL	2.7	MRL	mg/kg	J	DL

Sample ID: TP23 SB132 **Collected:** 11/2/2011 12:55:00 **Analysis Type:** Initial **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.068	Q J	0.014	MDL	0.20	MRL	mg/kg	J	DL, LM
COPPER	1.4	J	0.072	MDL	2.5	MRL	mg/kg	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Soil**

Sample ID: **TP24 SB133** ***Collected:*** **11/2/2011 1:05:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.038	J Q	0.012	MDL	0.18	MRL	mg/kg	J	DL
COPPER	0.86	J	0.062	MDL	2.2	MRL	mg/kg	J	DL

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Water**

SDG: **280-22438-1**

Sample ID: **CP29 GW002** ***Collected:*** **11/1/2011 1:05:00** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	5.0	J	2.0	MDL	20	MRL	ug/L	J	DL

Sample ID: **CP31 GW004** ***Collected:*** **11/1/2011 2:56:00** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	1.7	J	0.30	MDL	3.0	MRL	ug/L	J	DL
ZINC	3.3	J	2.0	MDL	20	MRL	ug/L	J	DL

Sample ID: **CP31 GW005** ***Collected:*** **11/1/2011 2:56:00** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	1.5	J	0.30	MDL	3.0	MRL	ug/L	J	DL
ZINC	2.7	J	2.0	MDL	20	MRL	ug/L	J	DL

Sample ID: **CP47 GW015** ***Collected:*** **11/1/2011 1:15:00** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	2.1	J	0.30	MDL	3.0	MRL	ug/L	J	DL

Sample ID: **MG37 GW006** ***Collected:*** **11/2/2011 8:50:00** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	1.5	J	0.56	MDL	2.0	MRL	ug/L	J	DL
ZINC	7.4	J	2.0	MDL	20	MRL	ug/L	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category: **METALS**

Method: **6020A** ***Matrix:*** **Water**

Sample ID: **MG37 GW010** ***Collected:*** **11/2/2011 8:50:00** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.99	J	0.56	MDL	2.0	MRL	ug/L	J	DL
ZINC	4.3	J	2.0	MDL	20	MRL	ug/L	J	DL

Sample ID: **MG38 GW007** ***Collected:*** **11/2/2011 10:08:00** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	5.8	J	2.0	MDL	20	MRL	ug/L	J	DL

Sample ID: **MG40 GW009** ***Collected:*** **11/2/2011 10:49:00** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	0.57	J	0.56	MDL	2.0	MRL	ug/L	J	DL
ZINC	9.0	J	2.0	MDL	20	MRL	ug/L	J	DL

Sample ID: **TP02 GW011** ***Collected:*** **11/2/2011 1:17:00** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	12	J	2.0	MDL	20	MRL	ug/L	J	DL

Sample ID: **TP03 GW012** ***Collected:*** **11/2/2011 3:33:00** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	5.7	J	2.0	MDL	20	MRL	ug/L	J	DL

Sample ID: **TP04 GW013** ***Collected:*** **11/2/2011 2:55:00** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.074	J Q	0.070	MDL	6.0	MRL	ug/L	J	DL
ZINC	4.0	J	2.0	MDL	20	MRL	ug/L	J	DL

Sample ID: **TP04 GW014** ***Collected:*** **11/2/2011 2:55:00** ***Analysis Type:*** **Initial/DIS** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.073	J Q	0.070	MDL	6.0	MRL	ug/L	J	DL
ZINC	4.2	J	2.0	MDL	20	MRL	ug/L	J	DL

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Method Category:	METALS		
Method:	6020A	*Matrix:*	Water

Method Category:	SVOA		
Method:	8321B_Exp	*Matrix:*	Water

SDG: **280-22438-1**

Sample ID: **MG37 GW006** *Collected:* **11/2/2011 8:50:00** *Analysis Type:* Initial/TOT *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROTOLUENE	0.10	U	0.022	MDL	0.10	MRL	ug/L	J	ProfJudg
4-NITROTOLUENE	0.10	U	0.026	MDL	0.10	MRL	ug/L	J	ProfJudg

Sample ID: **MG37 GW010** *Collected:* **11/2/2011 8:50:00** *Analysis Type:* Initial/TOT *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROTOLUENE	0.15		0.021	MDL	0.096	MRL	ug/L	J	ProfJudg
3-NITROTOLUENE	0.026	J	0.024	MDL	0.096	MRL	ug/L	J	DL
4-NITROTOLUENE	0.17		0.025	MDL	0.096	MRL	ug/L	J	ProfJudg

Table 1
Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280

Laboratory: 'TAL DEN'

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1'

eQAPP Name: Martha's Vineyard SEDD

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count > 1
	Method Blank Sample Count > 1
	Percent Moisture
BC	Initial Calibration Correlation Coefficient
BC	Initial Calibration Percent Relative Standard Deviation
BT	Continuing Tune
BT	Initial Calibration Verification Relative Response Factor
BT	Initial Tune
CB	Calibration Blank Contamination
Cb	Calibration Blank Contamination
CB	Calibration Blank Contamination
Cb	Calibration Blank Contamination
CB	Calibration Blank Contamination
Cb	Calibration Blank Contamination
CC	Continuing Calibration Verification Percent Difference Lower Estimation
CC	Continuing Calibration Verification Percent Difference Lower Rejection
CC	Continuing Calibration Verification Percent Difference Upper Estimation
CC	Continuing Calibration Verification Percent Difference Upper Rejection
Ccv	Continuing Calibration Verification Percent Difference Lower Estimation
Ccv	Continuing Calibration Verification Percent Difference Lower Rejection
Ccv	Continuing Calibration Verification Percent Difference Upper Estimation
Ccv	Continuing Calibration Verification Percent Difference Upper Rejection
Ccv	Continuing Calibration Verification Percent Recovery Lower Estimation
Ccv	Continuing Calibration Verification Percent Recovery Lower Rejection
Ccv	Continuing Calibration Verification Percent Recovery Upper Estimation
Ccv	Continuing Calibration Verification Percent Recovery Upper Rejection

* denotes a non-reportable result

Project Name and Number: -

Table 1

Data Qualifier Summary

Lab Reporting Batch ID: '280-21683-1', '280-21902-1', '280 **Laboratory: 'TAL DEN'**

EDD Filename: '280-21683-1', '280-21902-1', '280-22000-1', '280-22438-1' **eQAPP Name: Martha's Vineyard SEDD**

CcvCC	Continuing Calibration Verification Correlation Coefficient
CcvRrf	Continuing Calibration Verification Relative Response Factor
ContTune	Continuing Tune
DL	Reporting Limit Trace Value
Dup=0	Duplicate Sample Count = 0
Dup>1	Duplicate Sample Count > 1
EB	Equipment Blank Contamination
Eb	Equipment Blank Contamination
EB	Equipment Blank Contamination
Eb	Equipment Blank Contamination
EB	Equipment Blank Contamination
Eb	Equipment Blank Contamination
EtoA	Extraction to Analysis Estimation
EtoA	Extraction to Analysis Rejection
FB	Extraction to Analysis Estimation
FB	Field Blank Contamination
Fb	Field Blank Contamination
FB	Field Blank Contamination
Fb	Field Blank Contamination
FB	Field Blank Contamination
Fb	Field Blank Contamination
FD	Extraction to Analysis Rejection
FD	Field Duplicate Precision
Fd	Field Duplicate Precision
FD	Field Duplicate Precision
Fd	Field Duplicate Precision
FD	Field Duplicate Precision
Fd	Field Duplicate Precision
FT	Field Triplicate Precision
Ft	Field Triplicate Precision
FT	Field Triplicate Precision
Ft	Field Triplicate Precision

* denotes a non-reportable result

Project Name and Number: -

FT	Field Triplicate Precision
Ft	Field Triplicate Precision
HC	Continuing Calibration Verification Percent Recovery Upper Estimation
HC	Continuing Calibration Verification Percent Recovery Upper Rejection
HC	Initial Calibration Verification Percent Recovery Lower Rejection
HC	Initial Calibration Verification Percent Recovery Upper Estimation
HC	Initial Calibration Verification Percent Recovery Upper Rejection
HD	Internal Standard Rejection
HD	Laboratory Control Precision
HD	Laboratory Duplicate Precision
HD	Matrix Spike Precision
HL	Laboratory Control Spike Upper Estimation
HL	Laboratory Control Spike Upper Rejection
HM	Matrix Spike Upper Estimation
HM	Matrix Spike Upper Rejection
HS	Surrogate/Tracer Recovery Upper Estimation
HS	Surrogate/Tracer Recovery Upper Rejection
HT	Extraction to Analysis Estimation
HT	Extraction to Analysis Rejection
HT	Sampling to Analysis Estimation
HT	Sampling to Analysis Rejection
HT	Sampling to Extraction Estimation
HT	Sampling to Extraction Rejection
HT	Sampling to Leaching Estimation
HT	Sampling to Leaching Rejection
IC	Initial Calibration Verification Percent Difference Lower Estimation
IC	Initial Calibration Verification Percent Difference Lower Rejection
IC	Initial Calibration Verification Percent Difference Upper Estimation
IC	Initial Calibration Verification Percent Difference Upper Rejection
IcCC	Initial Calibration Correlation Coefficient
IcRrf	Initial Calibration Relative Response Factor
IcRsd	Initial Calibration Percent Relative Standard Deviation

* denotes a non-reportable result

Icv	Initial Calibration Verification Percent Difference Lower Estimation
Icv	Initial Calibration Verification Percent Difference Lower Rejection
Icv	Initial Calibration Verification Percent Difference Upper Estimation
Icv	Initial Calibration Verification Percent Difference Upper Rejection
Icv	Initial Calibration Verification Percent Recovery Lower Estimation
Icv	Initial Calibration Verification Percent Recovery Lower Rejection
Icv	Initial Calibration Verification Percent Recovery Upper Estimation
Icv	Initial Calibration Verification Percent Recovery Upper Rejection
IcvCC	Initial Calibration Verification Correlation Coefficient
IcvRrf	Initial Calibration Verification Relative Response Factor
IllogicalFraction	Illogical Fraction
InitTune	Initial Tune
IS	Initial Tune
IS	Internal Standard Estimation
Is	Internal Standard Estimation
IS	Internal Standard Estimation
Is	Internal Standard Estimation
IS	Internal Standard Estimation
Is	Internal Standard Estimation
IS	Internal Standard Rejection
Is	Internal Standard Rejection
IS	Internal Standard Rejection
Is	Internal Standard Rejection
LC	Continuing Calibration Verification Percent Recovery Lower Estimation
LC	Continuing Calibration Verification Percent Recovery Lower Rejection
LC	Initial Calibration Verification Percent Recovery Lower Estimation
LC	Initial Calibration Verification Percent Recovery Lower Rejection
LCIC	Initial Calibration Verification Percent Difference Upper Rejection
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Lower Rejection
Lcs	Laboratory Control Spike Upper Estimation

Table 1

Data Qualifier Summary

Lcs	Laboratory Control Spike Upper Rejection
Lcs=0	Laboratory Control Sample Count = 0
Lcs>1	Laboratory Control Sample Count > 1
Ld	Laboratory Duplicate Precision
Level IV DV	Professional Judgment
LL	Laboratory Control Spike Lower Estimation
LL	Laboratory Control Spike Lower Rejection
LM	Matrix Spike Lower Estimation
LM	Matrix Spike Lower Rejection
LS	Surrogate/Tracer Recovery Lower Estimation
LS	Surrogate/Tracer Recovery Lower Rejection
LT	Laboratory Triplicate Precision
Lt	Laboratory Triplicate Precision
LT	Laboratory Triplicate Precision
Lt	Laboratory Triplicate Precision
LT	Laboratory Triplicate Precision
Lt	Laboratory Triplicate Precision
MB	Method Blank Contamination
Mb	Method Blank Contamination
MB	Method Blank Contamination
Mb	Method Blank Contamination
MB	Method Blank Contamination
Mb	Method Blank Contamination
Mb=0	Method Blank Sample Count = 0
Mb>1	Method Blank Sample Count > 1
Moist	Percent Moisture
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Lower Rejection
Ms	Matrix Spike Precision
Ms	Matrix Spike Upper Estimation
Ms	Matrix Spike Upper Rejection
Ms=0	Matrix Spike Sample Count = 0

* denotes a non-reportable result

Project Name and Number: -

Ms>1	Matrix Spike Sample Count > 1
NP	Preservation
NP	Temperature Estimation
NP	Temperature Rejection
NQ	Duplicate Sample Count = 0
NQ	Laboratory Control Sample Count = 0
NQ	Matrix Spike Sample Count = 0
NQ	Method Blank Sample Count = 0
PEM	Performance Evaluation Mixture
Preservation	Preservation
ProfJudg	Professional Judgment
REM	Resolution Check Mixture
RF	Continuing Calibration Verification Relative Response Factor
RF	Initial Calibration Relative Response Factor
RF	Initial Calibration Verification Percent Recovery Upper Rejection
RF	Initial Calibration Verification Relative Response Factor
RL	Reporting Limit
Rl	Reporting Limit
RL	Reporting Limit
Rl	Reporting Limit
RL	Reporting Limit
Rl	Reporting Limit
Rl	Reporting Limit > Project Maximum Contamination Limit
Rl	Reporting Limit Trace Value
RL<PAL	Reporting Limit > Project Maximum Contamination Limit
RL>PAL	Reporting Limit > Project Maximum Contamination Limit
StoA	Sampling to Analysis Estimation
StoA	Sampling to Analysis Rejection
StoE	Sampling to Extraction Estimation
StoE	Sampling to Extraction Rejection
StoL	Sampling to Leaching Estimation
StoL	Sampling to Leaching Rejection

Surr	Surrogate/Tracer Recovery Lower Estimation
Surr	Surrogate/Tracer Recovery Lower Rejection
Surr	Surrogate/Tracer Recovery Upper Estimation
Surr	Surrogate/Tracer Recovery Upper Rejection
TB	Trip Blank Contamination
Tb	Trip Blank Contamination
TB	Trip Blank Contamination
Tb	Trip Blank Contamination
TB	Trip Blank Contamination
Tb	Trip Blank Contamination
TempEst	Temperature Estimation
TempRej	Temperature Rejection

Table 2
Martha's Vineyard, MA
Field Duplicate Precision

Parent Sample/Field Duplicate Identifications	Parent Sample Result	Duplicate Sample Result	Reporting Limit	Units	Relative Percent Difference	Notes
CP08 SB010/CP08 SB011						
Total Antimony	0.015	ND	0.2	mg/Kg	NC	
Total Copper	1.4	1.4	2.5	mg/Kg	0%	
Total Lead	7	6.8	0.4	mg/Kg	3%	
Total Nickel	2.2	2.1	0.35	mg/Kg	5%	
Total Zinc	11	11	2.5	mg/Kg	0%	
CP13 SB019/CP13 SB021						
Total Copper	1.2	0.9	2.5	mg/Kg	29%	
Total Lead	6.4	6.4	0.4	mg/Kg	0%	
Total Nickel	1.1	1	0.35	mg/Kg	10%	
Total Zinc	4.3	3.9	2.5	mg/Kg	10%	
CP18 SB032/CP18 SB033						
Total Copper	1.1	1.1	2.5	mg/Kg	0%	
Total Lead	7.8	7.5	0.4	mg/Kg	4%	
Total Nickel	2.2	3.2	0.35	mg/Kg	37%	**J-FD**
Total Zinc	5.7	7.9	2.5	mg/Kg	32%	±RL
CP23 SB042/CP23 SB044						
Total Copper	1.2	1.1	2.5	mg/Kg	9%	
Total Lead	6.7	6.2	0.4	mg/Kg	8%	
Total Nickel	1.8	1.9	0.35	mg/Kg	5%	
Total Zinc	7.2	6.7	2.5	mg/Kg	7%	
CP31 GW004/CP31 GW005						
Dissolved Nickel	1.7	1.5	3	ug/L	13%	
Dissolved Zinc	3.3	2.7	20	ug/L	20%	
CP41 SD010/CP41 SD011						
Total Copper	0.47	0.47	2.5	mg/Kg	0%	
Total Lead	0.94	1.5	0.4	mg/Kg	46%	**J-FD**
Total Nickel	0.78	0.86	0.35	mg/Kg	10%	
Total Zinc	2.6	2.7	2.5	mg/Kg	4%	
CP45 SD015/CP45 SD016						
Total Copper	0.38	0.67	2.5	mg/Kg	55%	±RL
Total Lead	0.85	1.2	0.4	mg/Kg	34%	±RL
Total Nickel	0.56	0.77	0.35	mg/Kg	32%	±RL
Total Zinc	1.7	3.5	2.5	mg/Kg	69%	±RL
MG06 SB063/MG06 SB064						
Total Antimony	0.015	0.024	0.2	mg/Kg	46%	±RL
Total Copper	3.3	3.2	2.5	mg/Kg	3%	
Total Lead	4.6	4.9	0.4	mg/Kg	6%	
Total Nickel	3.2	3	0.35	mg/Kg	6%	
Total Zinc	12	10	2.5	mg/Kg	18%	
MG12 SB073/MG12 SB075						
Total Antimony	0.017	0.017	0.2	mg/Kg	0%	
Total Copper	1.8	1.7	2.5	mg/Kg	6%	
Total Lead	8.4	7.9	0.4	mg/Kg	6%	
Total Nickel	2.3	2	0.35	mg/Kg	14%	
Total Zinc	8.1	7.9	2.5	mg/Kg	2%	
MG17 SB086/MG17 SB087						
Total Copper	1.9	2.2	2.5	mg/Kg	15%	
Total Lead	6.5	6.6	0.4	mg/Kg	2%	

Table 2
Martha's Vineyard, MA
Field Duplicate Precision

Total Nickel	2.7	2.9	0.35	mg/Kg	7%	
Total Zinc	7.1	8.2	2.5	mg/Kg	14%	
MG22 SB094/MG22 SB096						
Total Antimony	0.022	0.023	0.2	mg/Kg	4%	
Total Copper	2.1	2.1	2.5	mg/Kg	0%	
Total Lead	4.5	4.8	0.4	mg/Kg	6%	
Total Nickel	2.4	2.2	0.35	mg/Kg	9%	
Total Zinc	7.6	7	2.5	mg/Kg	8%	
MG33 SB117/MG33 SB119						
Total Antimony	0.015	0.014	0.2	mg/Kg	7%	
Total Copper	3.6	3.7	2.5	mg/Kg	3%	
Total Lead	5.6	6	0.4	mg/Kg	7%	
Total Nickel	3.5	4.8	0.35	mg/Kg	31%	**J-FD**
Total Zinc	12	12	2.5	mg/Kg	0%	
MG35 SB124/MG35 SB125						
Total Antimony	0.014	ND	0.2	mg/Kg	NC	±RL
Total Copper	2.4	2.8	2.5	mg/Kg	15%	
Total Lead	3.5	4	0.4	mg/Kg	13%	
Total Nickel	3.8	3.8	0.35	mg/Kg	0%	
Total Zinc	9.1	9.7	2.5	mg/Kg	6%	
MG37 GW006/MG37 GW010						
2-Nitrotoluene	ND	0.15	0.1	ug/L	NC	**J-FD**
3-Nitrotoluene	ND	0.026	0.1	ug/L	NC	±RL
4-Nitrotoluene	ND	0.17	0.1	ug/L	NC	**J-FD**
Dissolved Copper	1.5	0.99	2	ug/L	41%	±RL
Dissolved Nickel	12	9	3	ug/L	29%	
Dissolved Zinc	7.4	4.3	20	ug/L	53%	±RL
TP01 SB128/TP01 SB129						
Total Antimony	ND	0.018	0.2	mg/Kg	NC	±RL
Total Copper	1.8	1.8	2.5	mg/Kg	0%	
Total Lead	32	32	0.4	mg/Kg	0%	
Total Nickel	2.3	2.1	0.35	mg/Kg	9%	
Total Zinc	8.3	7.6	2.5	mg/Kg	9%	
TP04 GW013/TP04 GW014						
Dissolved Antimony	0.074	0.073	6	ug/L	1%	
Dissolved Nickel	13	12	3	ug/L	8%	
Dissolved Zinc	4	4.2	20	ug/L	5%	
TP14 SD027/TP14 SD028						
Total Copper	1.5	1.2	2.5	mg/Kg	22%	
Total Lead	3.3	2.9	0.4	mg/Kg	13%	
Total Nickel	2	1.7	0.35	mg/Kg	16%	
Total Zinc	10	8.7	2.5	mg/Kg	14%	
TP21 SD035/TP21 SD036						
Total Antimony	0.037	0.033	0.2	mg/Kg	11%	
Total Copper	0.58	0.63	2.5	mg/Kg	8%	
Total Lead	4.8	4.4	0.4	mg/Kg	9%	
Total Nickel	1.4	1.3	0.35	mg/Kg	7%	
Total Zinc	7.8	7.3	2.5	mg/Kg	7%	

Notes:
NC: Not Calculable
ND: This analyte was not detected above the method detection limit.

mg/L: milligrams per liter
Control limit: RPD between primary and duplicate concentrations <30% for aqueous and solid samples for concentrations > 5x RL, and ± RL for concentrarions < 5x RL

Table 3
Martha's Vineyard, MA
Field Triplicate Precision

Parent Sample/Field Duplicate/ Field Triplicate Identificaitons	Parent Sample Result	Duplicate Sample Result	Triplicate Sample Result	Reporting Limit	Units	Relative Standard Deviation	Notes
CP01 IS01/CP01 IS02/CP01 IS03							
Total Antimony	0.057	0.083	0.028	0.2	mg/Kg	49%	±RL
Total Copper	2.7	2.3	2.4	2.5	mg/Kg	8%	
Total Lead	22	25	14	0.4	mg/Kg	28%	
Total Nickel	1.5	1.6	1.5	0.35	mg/Kg	4%	
Total Zinc	11	13	10	2.5	mg/Kg	13%	
CP02 IS004/CP02 IS005/CP02 IS006							
Total Antimony	0.043	0.049	0.053	0.2	mg/Kg	10%	
Total Copper	2.8	3.2	3.6	2.5	mg/Kg	13%	
Total Lead	14	15	16	0.4	mg/Kg	7%	
Total Nickel	1.5	1.5	2	0.35	mg/Kg	17%	
Total Zinc	8.8	10	12	2.5	mg/Kg	16%	
CP03 IS007/CP03 IS008/CP03 IS009							
Total Antimony	0.016	0.014	0.017	0.2	mg/Kg	10%	
Total Copper	2	1.8	2.1	2.5	mg/Kg	8%	
Total Lead	9.1	8	9	0.4	mg/Kg	7%	
Total Nickel	1.3	1.3	1.6	0.35	mg/Kg	12%	
Total Zinc	9.2	8.8	9.7	2.5	mg/Kg	5%	
MG19 IS016/MG19 IS017/MG19 IS018							
Total Antimony	0.04	0.034	0.043	0.2	mg/Kg	12%	
Total Copper	3.7	3.4	3.9	2.5	mg/Kg	7%	
Total Lead	14	12	11	0.4	mg/Kg	12%	
Total Nickel	2.6	2.5	2.6	0.35	mg/Kg	2%	
Total Zinc	13	12	15	2.5	mg/Kg	11%	
MG19 IS016/MG19 IS017/MG19 IS018							
Total Antimony	0.04	0.034	3.9	0.2	mg/Kg	168%	±RL
Total Copper	3.7	3.4	15	2.5	mg/Kg	90%	**J-FT**
Total Lead	14	12	11	0.4	mg/Kg	12%	
Total Nickel	2.6	2.5	2.6	0.35	mg/Kg	2%	
Total Zinc	13	12	0.043	2.5	mg/Kg	86%	**J-FT**

Notes:
RL: Reporting limit
mg/Kg: milligrams per kilogram
Control limit: RSD between primary, duplicate, and triplicate concentrations <30% for aqueous samples
and solid samples for concentrations > 5x RL, and ± RL for concentrarions < 5x RL

Table 4
Martha's Vineyard, MA
Field QC Samples Frequency

Field QC Sample Type	Number of Field QC Samples Collected/Analyzed	SAP-Specified Frequency	Frequency Achieved
Sample Matrix: Groundwater Non-QC Samples Collected: 8			
Field Duplicate	3	10%	37.5%
Sample Matrix: Soil/Sediment - Discrete Samples Non-QC Samples Collected: 150			
Field Duplicate	15	10%	10%
MS/MSD	19	5%	12.6%
Sample Matrix: Soil - Incremental Soil Samples Non-QC Samples Collected: 5			
Field Triplicate	5	100%	100%
MS/MSD	3	5%	60%